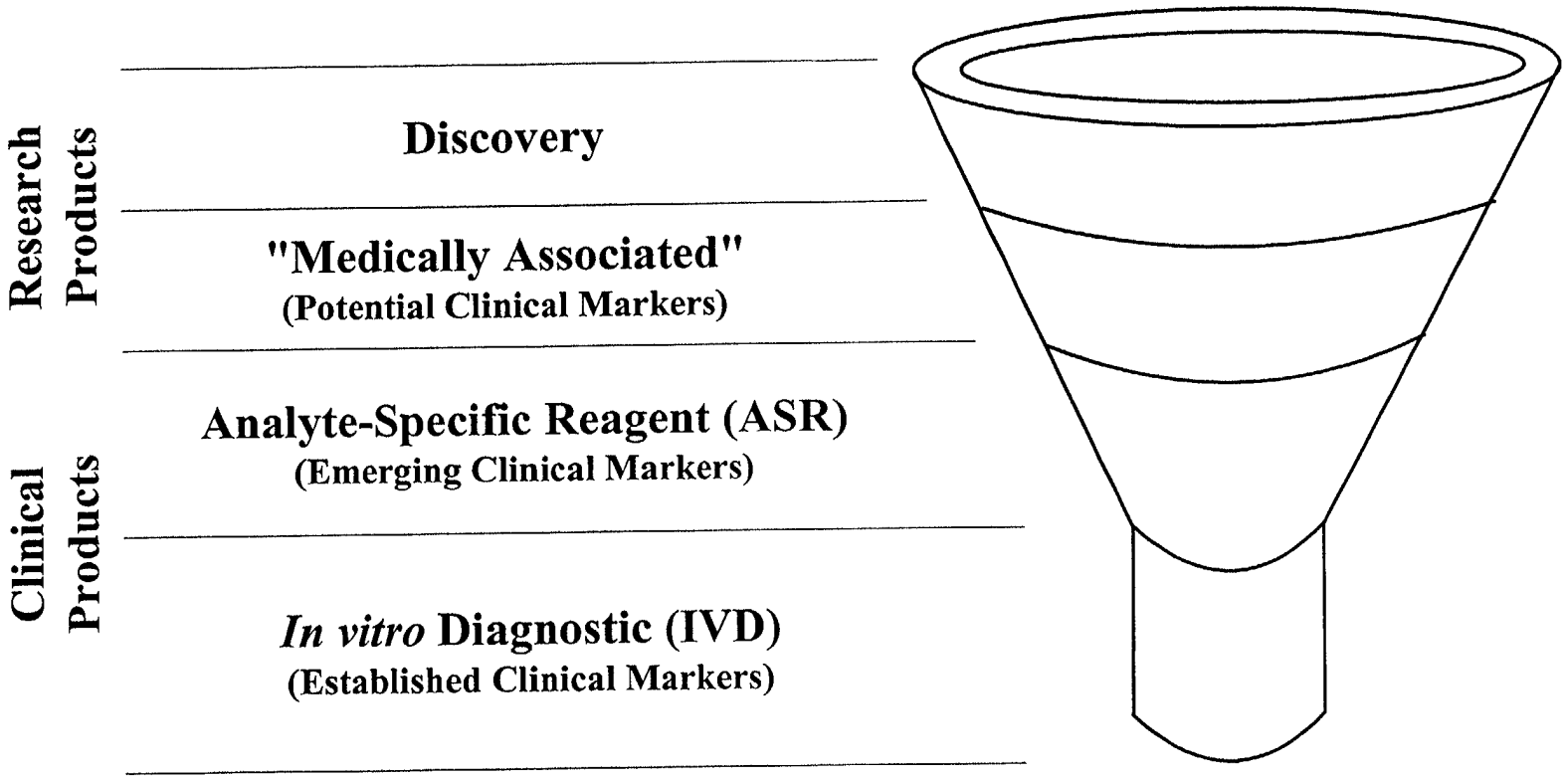
PCT/US2003/036660

FIGURE 1



PCT/US2005/000000

FIGURE 2

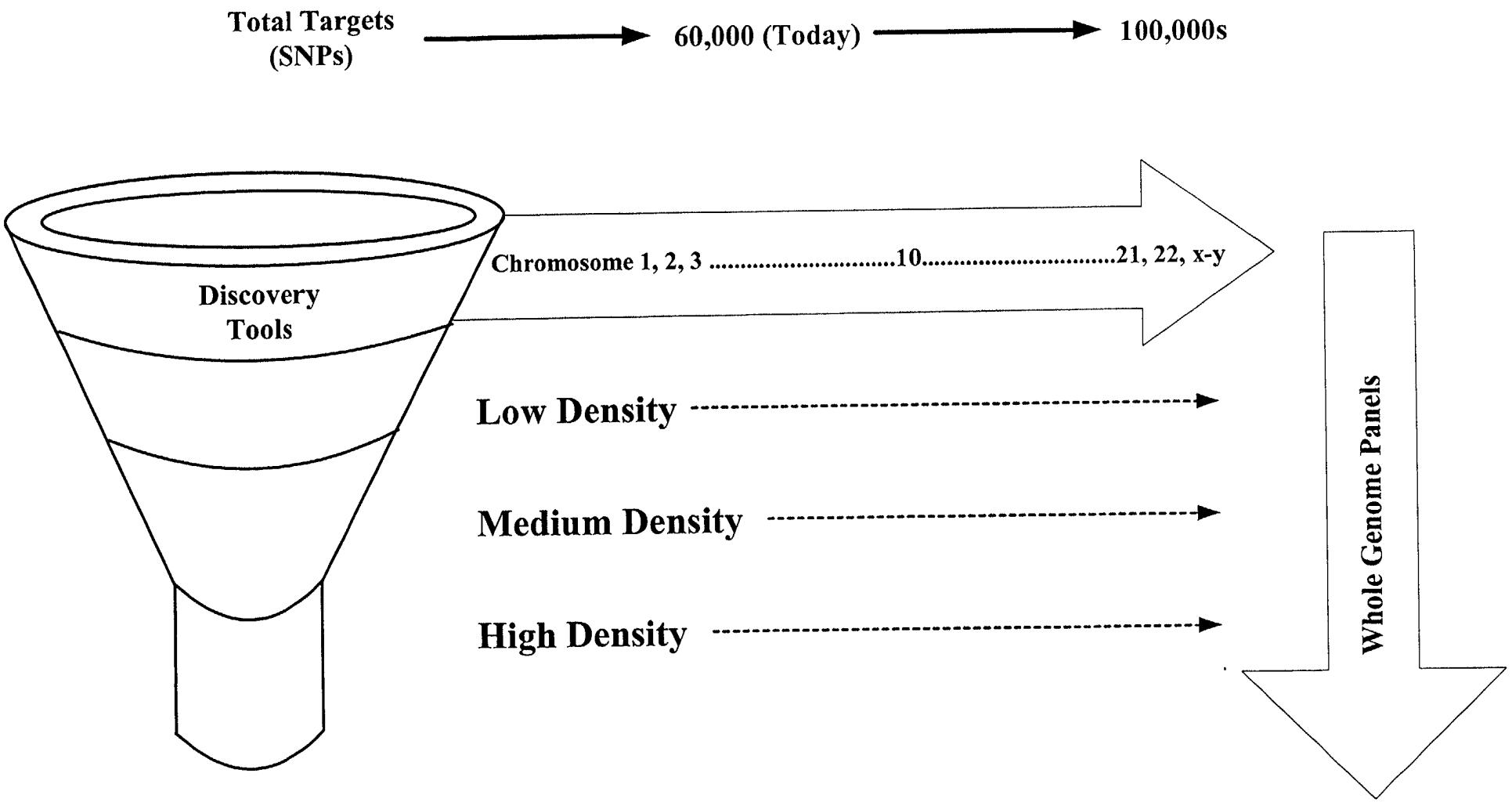
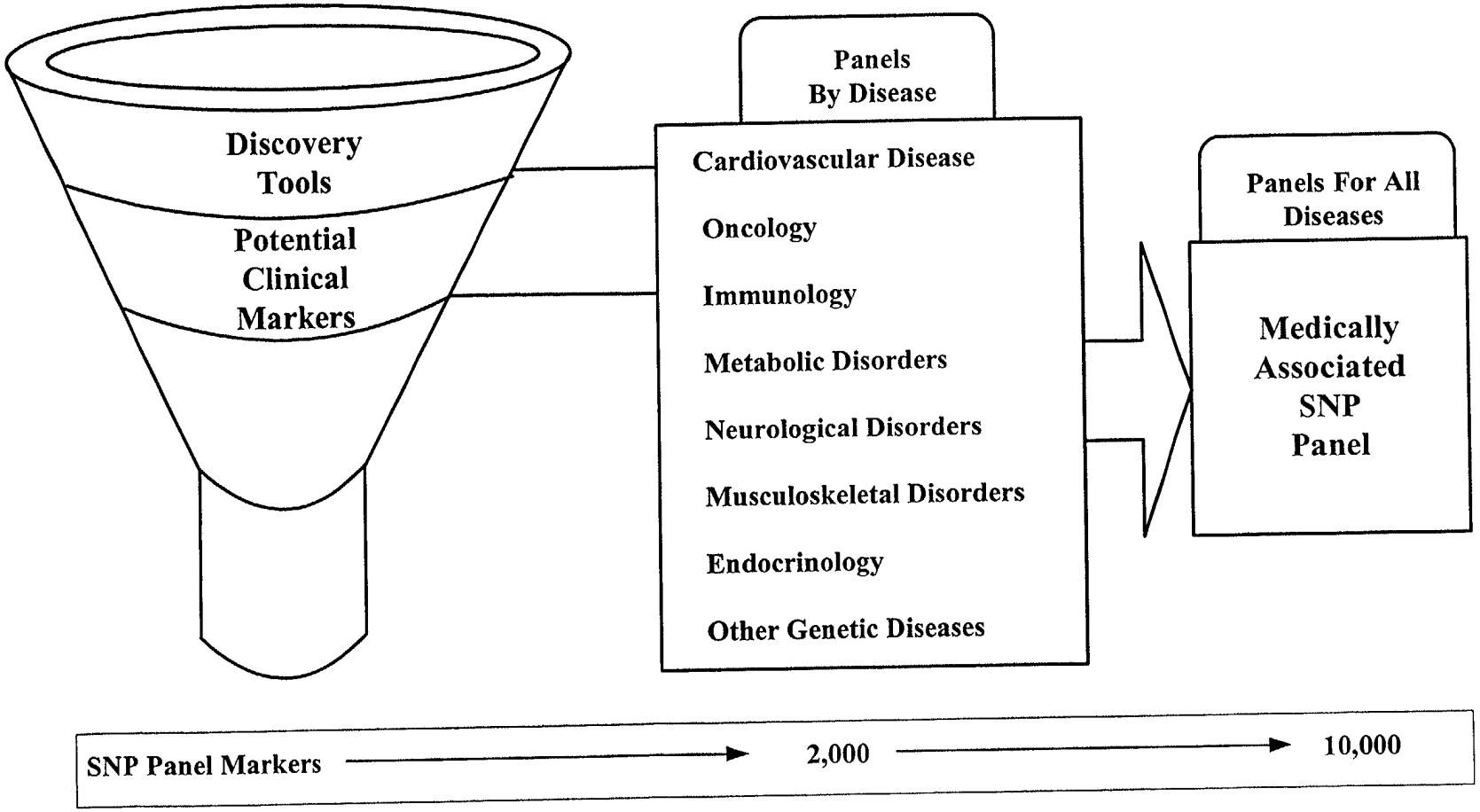
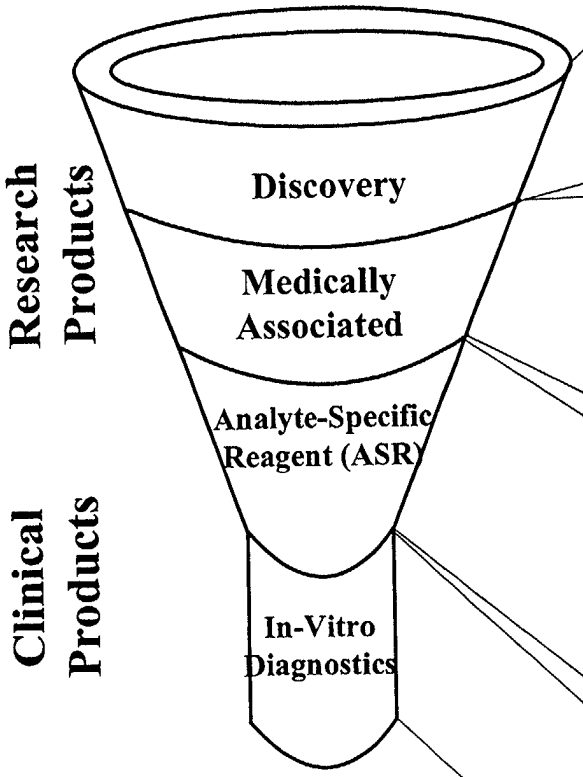


FIGURE 3


Discovery Tools
Potential Clinical Markers
Panels By Disease
Cardiovascular Disease
Oncology
Immunology
Metabolic Disorders
Neurological Disorders
Musculoskeletal Disorders
Endocrinology
Other Genetic Diseases
Panels For All Diseases
Medically Associated SNP Panel
SNP Panel Markers
2,000
10,000

PATENT SEARCH

FIGURE 4



	Genotyping/SNPs		Expression/RNA	
	Standard	**Custom**	**Standard**	**Custom**
Discovery	> 50K Unique SNP Assays Today; Growing at 6-10K/Month Gene, Chromosome and Genome Panels	Requested SNP Assays Configured as Requested	cDNA Analysis All Human Genes	Requested RNA Analytes Configured for Research and/or HTS Applications as Requested
Medically Associated	Drug Metabolizing Enzyme Panel Disease Area Specific Panels Medically Associated Panel	Requested SNP Assays Configured as Requested	33 Analytes Available 100s Available Soon	Requested RNA Analytes Configured as Requested
Analyte-Specific Reagent (ASR)	ASRs Launched ASRs under Development	Requested SNP Assays Configured for ASR Use	ASRs under Development	Requested RNA Analytes Configured for ASR Use
In-Vitro Diagnostics	Submissions	Requested SNP Assays Configured for IVD Use	Submissions	Requested RNA Analytes Configured for IVD Use

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PCT/US2003/028660

FIGURE 5

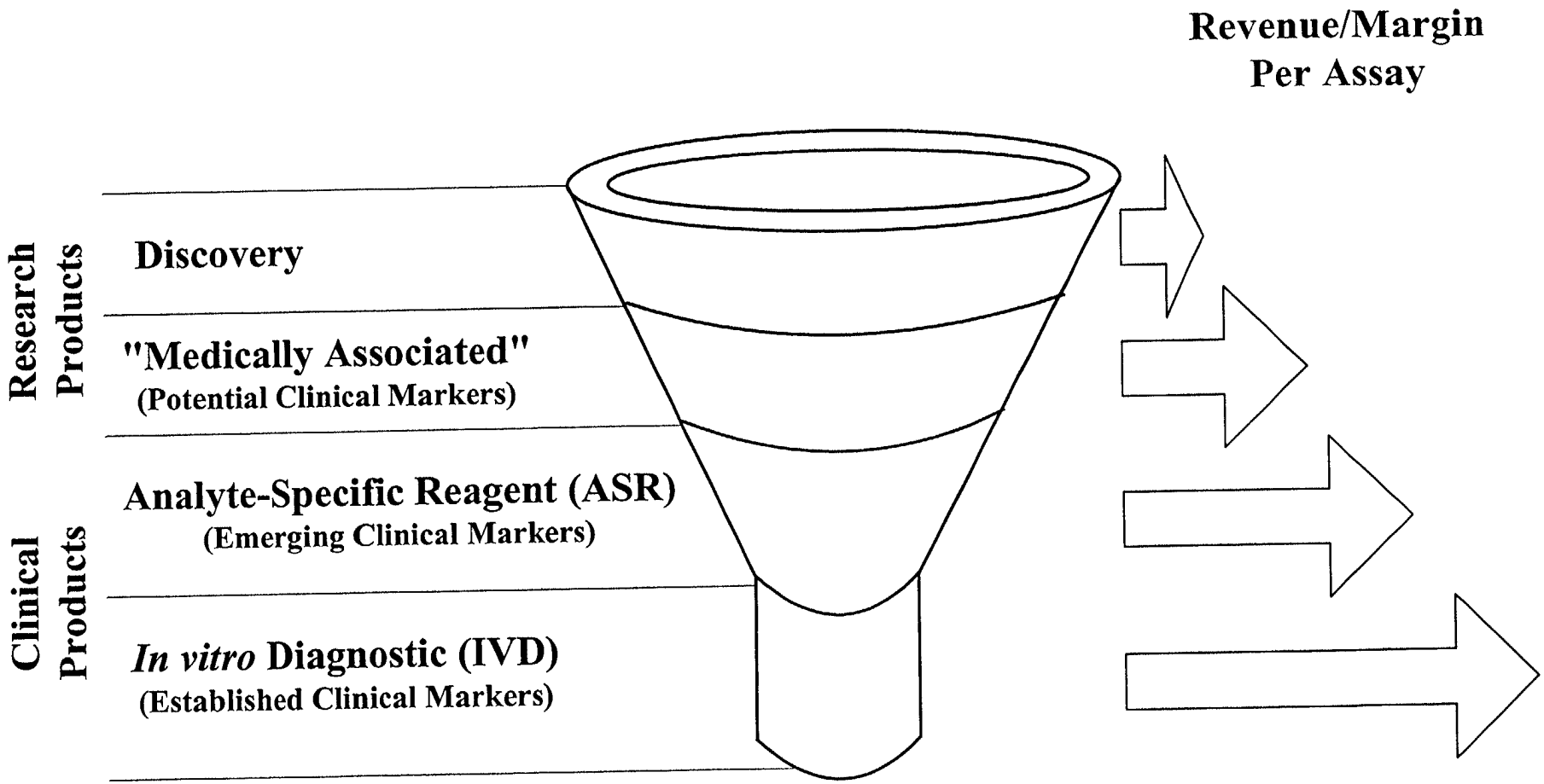
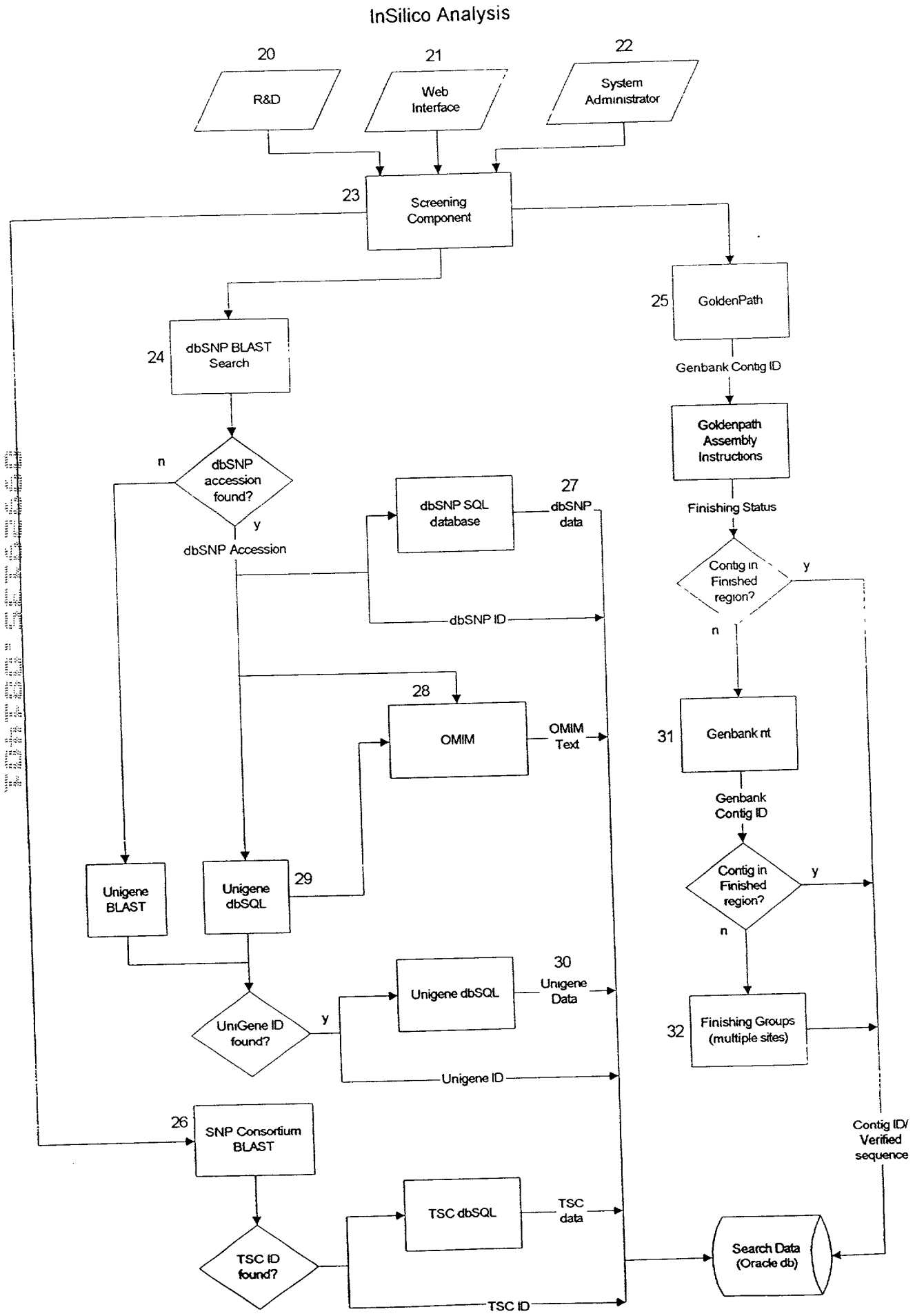


FIGURE 6


InSilico Analysis
20
R&D
21
Web Interface
22
System Administrator
23
Screening Component
24
dbSNP BLAST Search
25
GoldenPath
Genbank Contig ID
Goldenpath Assembly Instructions
Finishing Status
n
dbSNP accession found?
y
dbSNP Accession
dbSNP SQL database
27
dbSNP data
dbSNP ID
Contig in Finished region?
y
n
28
OMIM
OMIM Text
31
Genbank nt
Genbank Contig ID
Unigene BLAST
Unigene dbSQL
29
Contig in Finished region?
y
n
30
Unigene dbSQL
Unigene Data
UniGene ID found?
y
Unigene ID
32
Finishing Groups (multiple sites)
26
SNP Consortium BLAST
Contig ID/ Verified sequence
TSC dbSQL
TSC data
TSC ID found?
Search Data (Oracle db)
TSC ID

PCT/US2003/041000

FIGURE 7

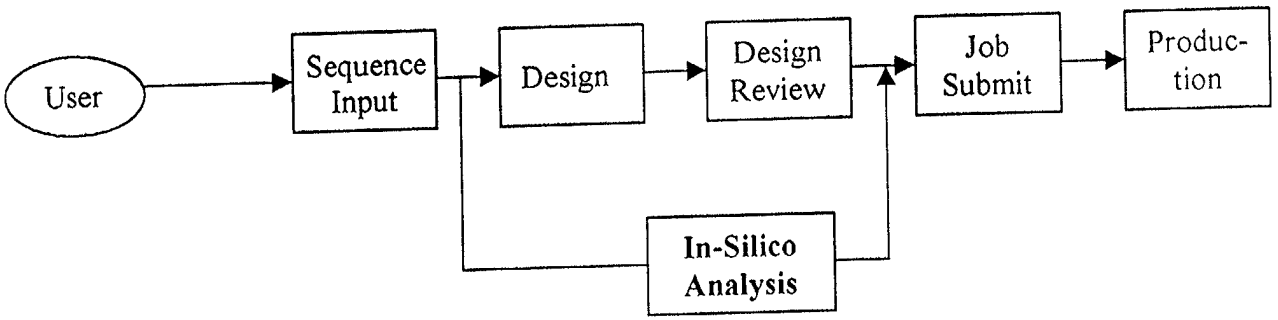
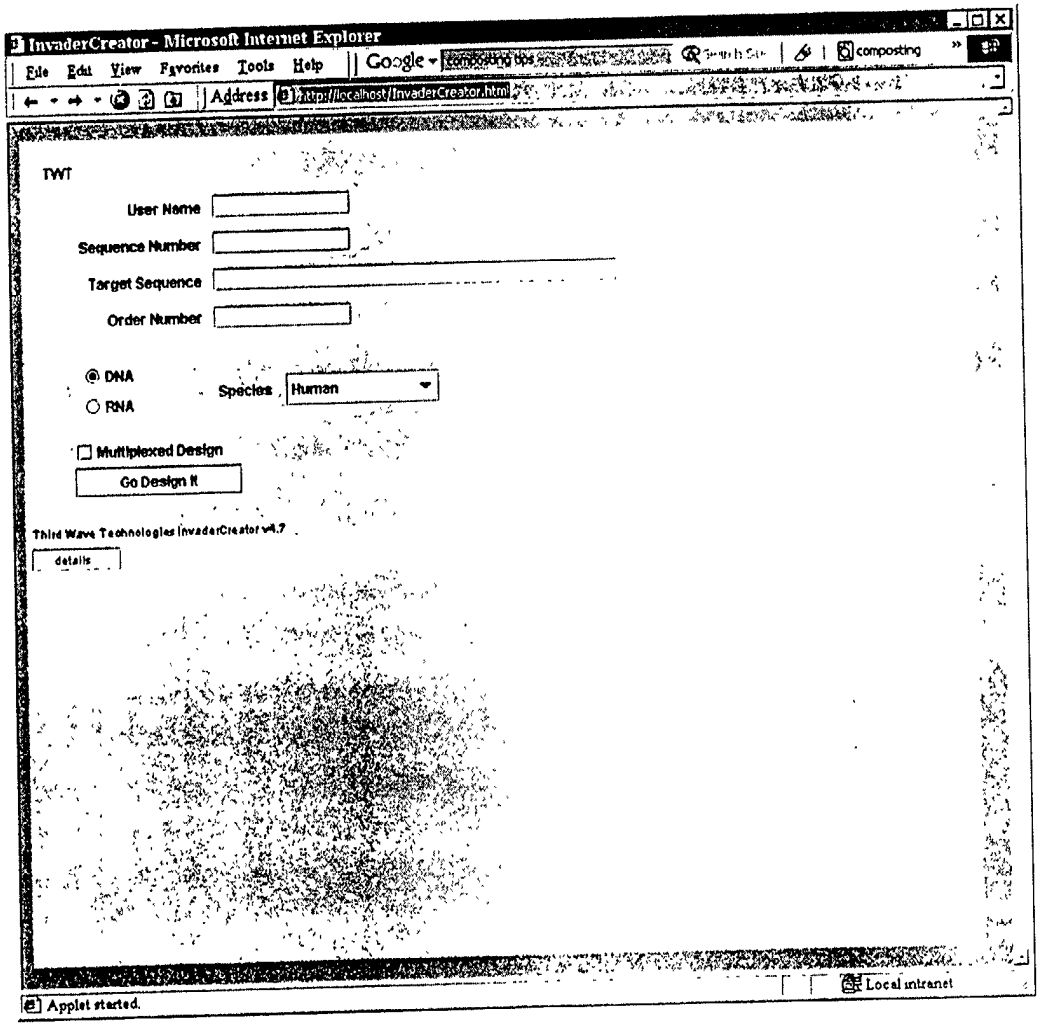
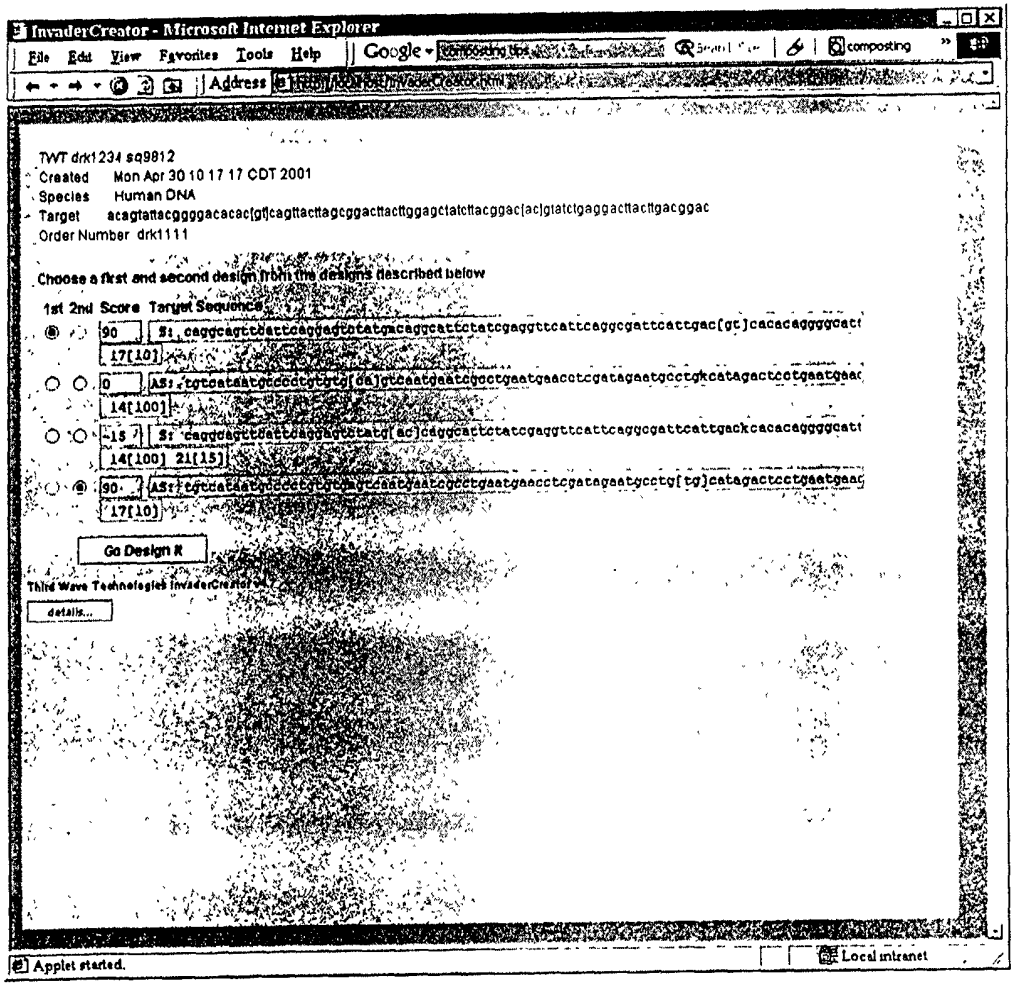


FIGURE 8


InvaderCreator - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Google
composting
Address
https://localhost/InvaderCreator.html
TWT
User Name
Sequence Number
Target Sequence
Order Number
DNA
RNA
Species
Human
Multiplexed Design
Go Design It
Third Wave Technologies InvaderCreator v4.7
details
Applet started.
Local intranet

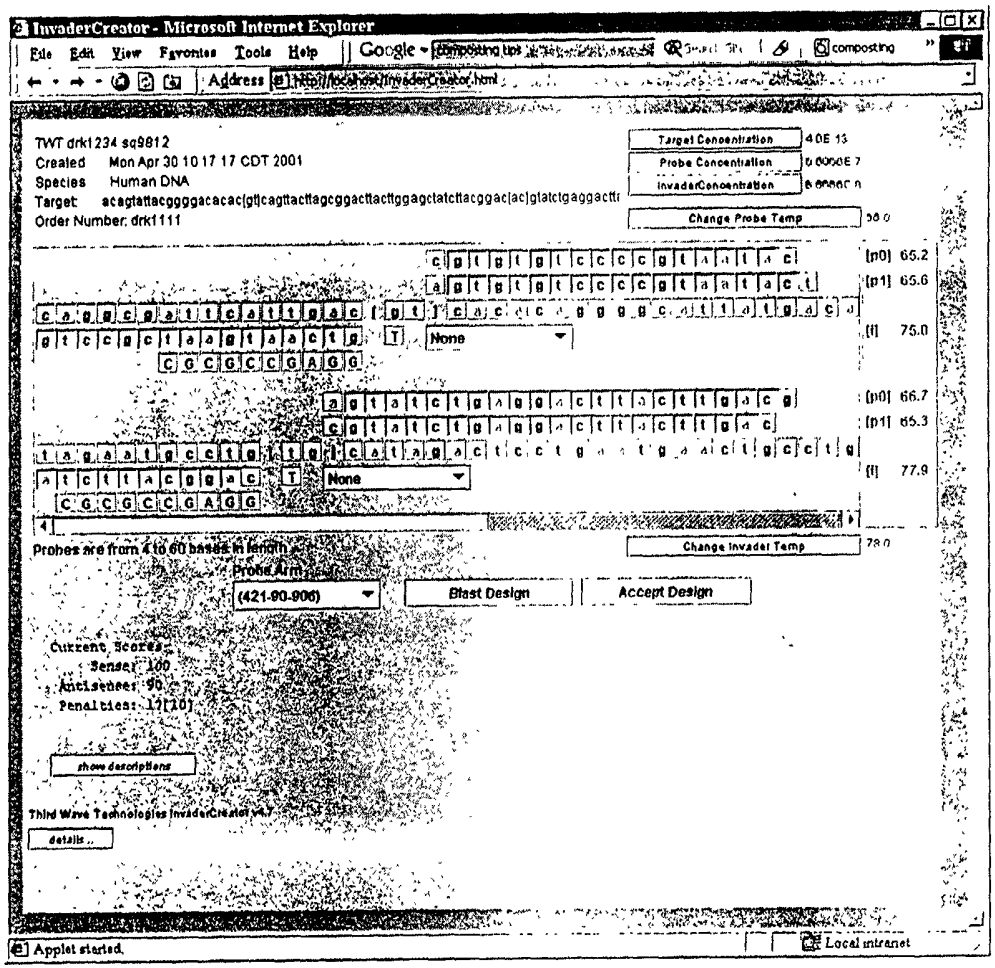
TOMBO SEQUENCE

FIGURE 9



PCT/US01/50650

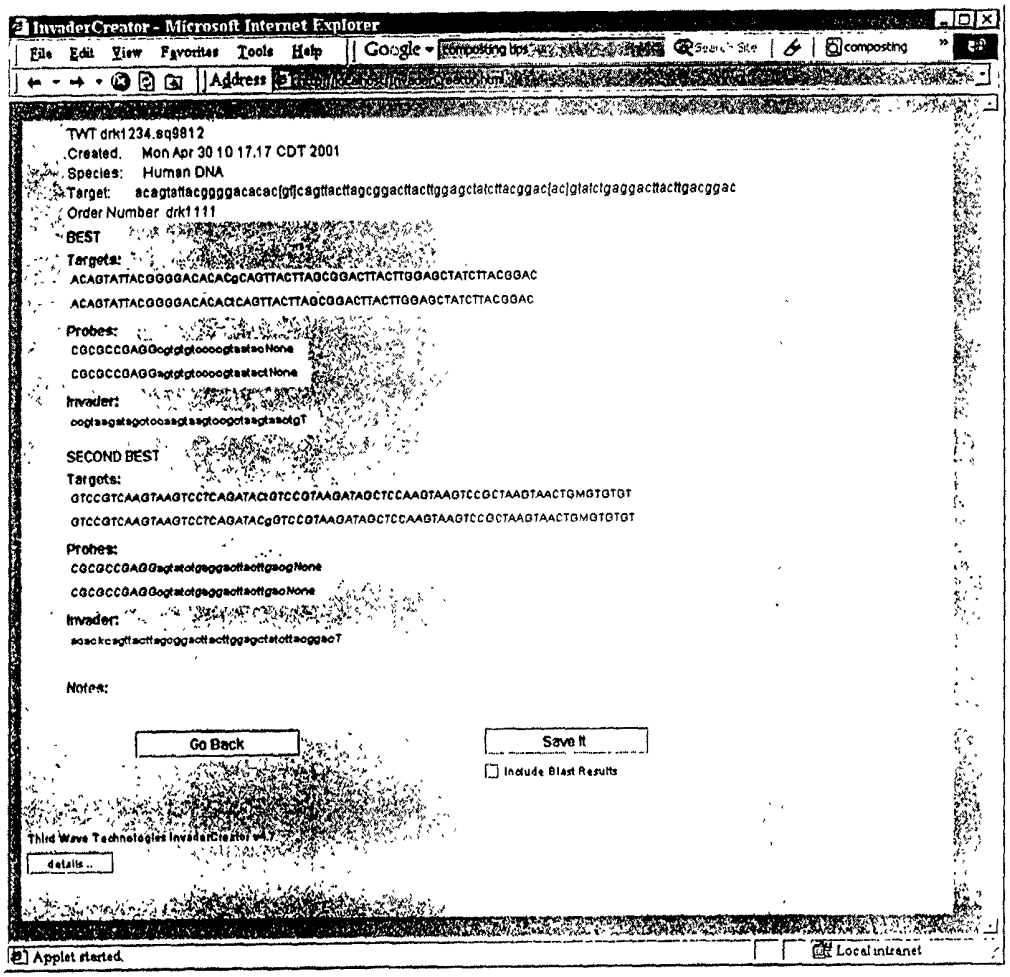
FIGURE 10



12/31

FORMED SEQUENCE

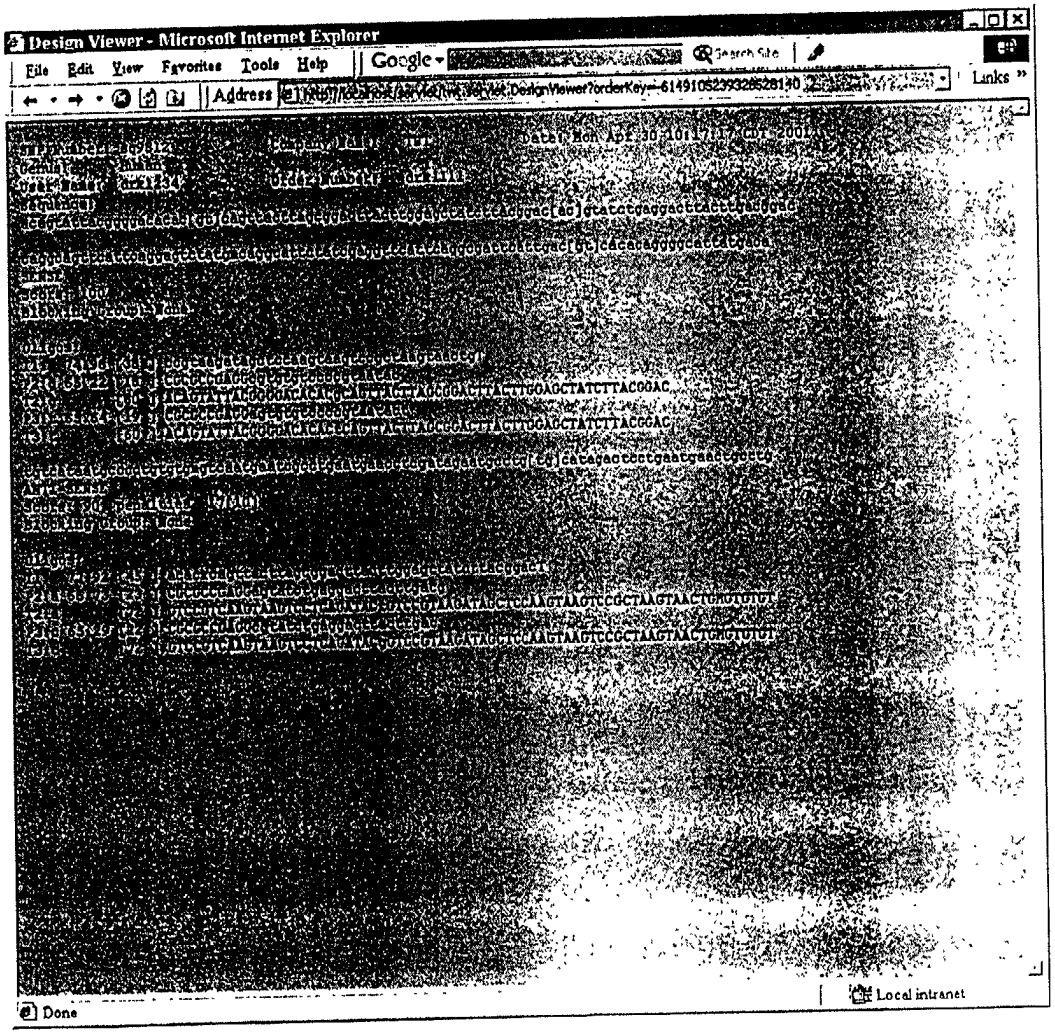
FIGURE 11



18/11

PCT/US2005/028650

FIGURE 12



12/21

FIGURE 13

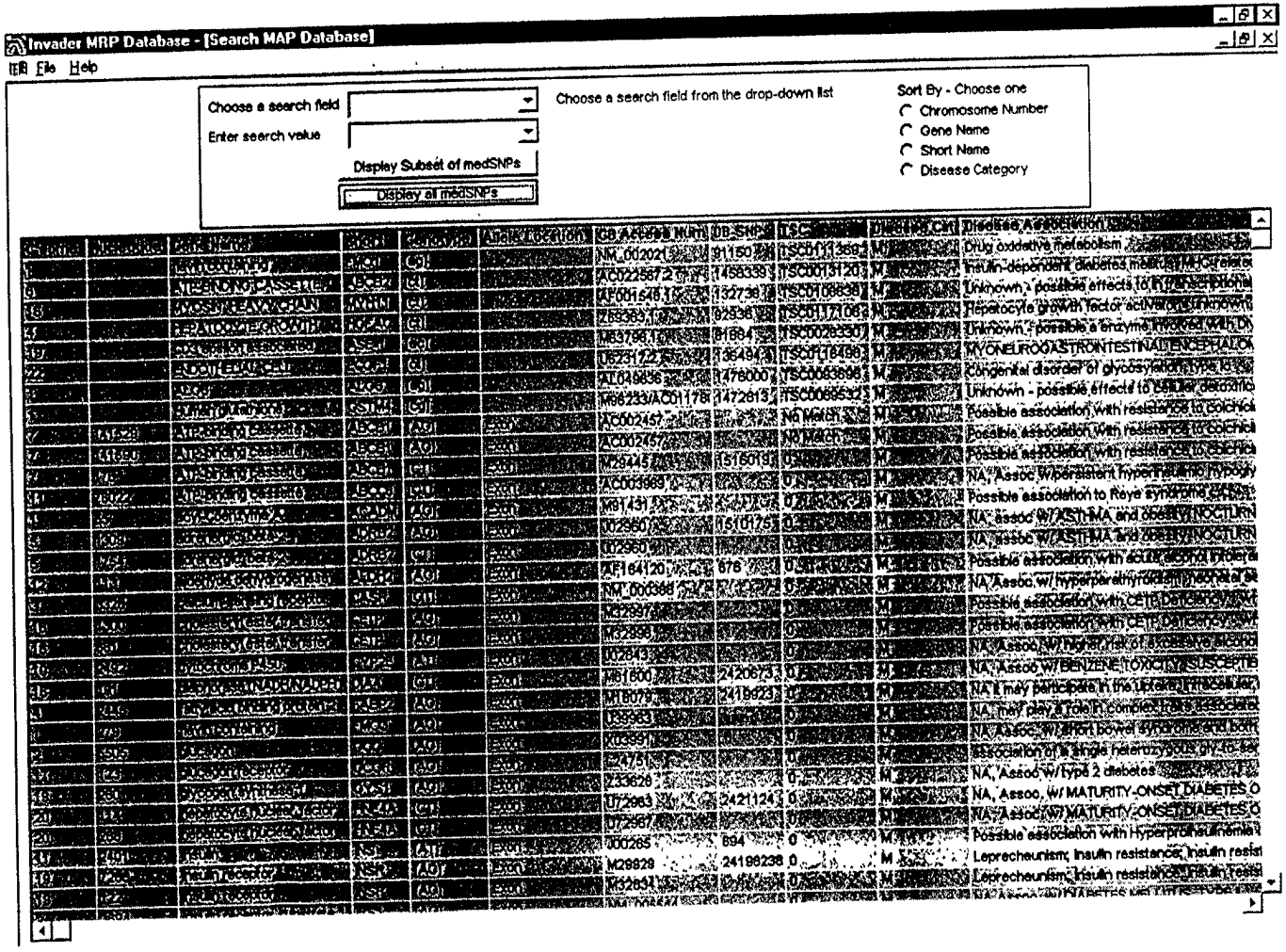
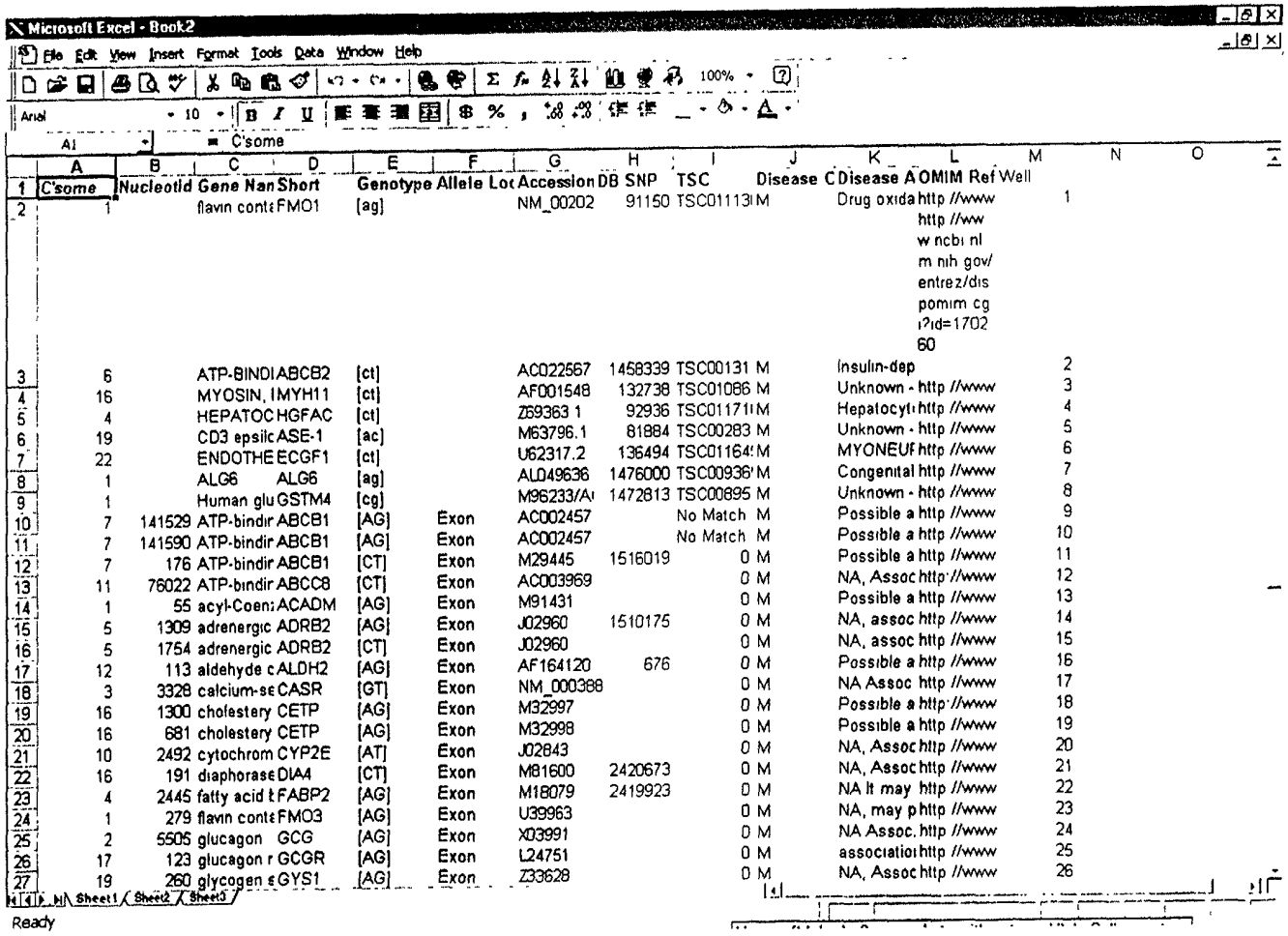

Invader MRP Database - [Search MAP Database]
File Help
Choose a search field
Enter search value
Choose a search field from the drop-down list
Sort By - Choose one
Chromosome Number
Gene Name
Short Name
Disease Category
Display Subset of medSNPs
Display all medSNPs

FIGURE 14



Microsoft Excel - Book2

File Edit View Insert Format Tools Data Window Help

Arial 10

A1 = C'some

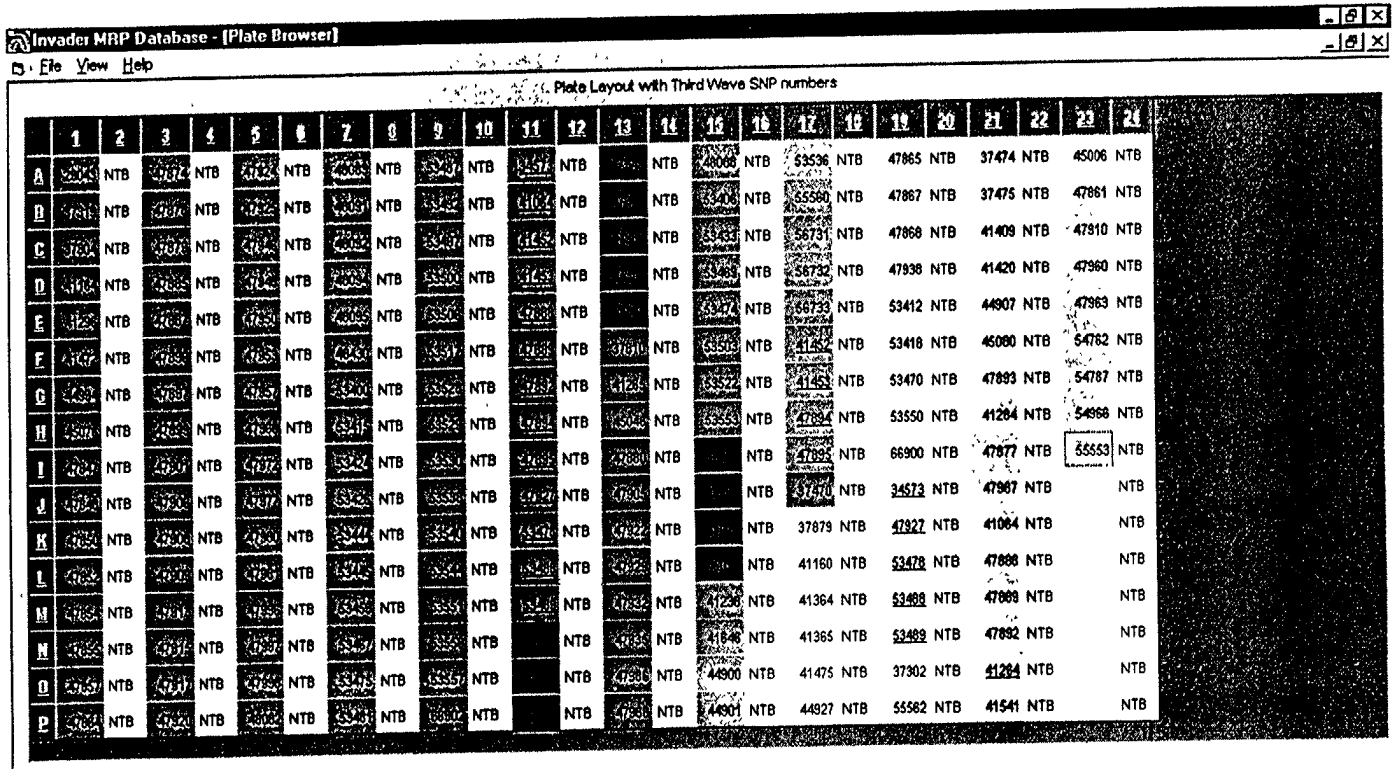
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	C'some	Nucleotid	Gene Nan	Short	Genotype	Allele Loc	Accession	DB SNP	TSC	Disease C	Disease A	OMIM Ref	Well		
2	1		flavin cont	FMO1	[ag]		NM_00202	91150	TSC01113	M	Drug oxida	http //www http //ww w ncbi nl m nih gov/ entrez/dis pomim cg i?id=1702 60	1		
3	6		ATP-BINDI	ABCB2	[ct]		AC022567	1458339	TSC00131	M	Insulin-dep		2		
4	16		MYOSIN, I	MYH11	[ct]		AF001548	132738	TSC01086	M	Unknown -	http //www	3		
5	4		HEPATOC	HGFAC	[ct]		Z69363 1	92936	TSC01171	M	Hepatocyt	http //www	4		
6	19		CD3 epsilc	ASE-1	[ac]		M63796.1	81884	TSC00283	M	Unknown -	http //www	5		
7	22		ENDOTHE	ECGF1	[ct]		U62317.2	136494	TSC01164	M	MYONEUf	http //www	6		
8	1		ALG6	ALG6	[ag]		AL049636	1476000	TSC00936	M	Congenital	http //www	7		
9	1		Human glu	GSTM4	[cg]		M96233/A	1472813	TSC00895	M	Unknown -	http //www	8		
10	7	141529	ATP-bindir	ABCB1	[AG]	Exon	AC002457		No Match	M	Possible a	http //www	9		
11	7	141590	ATP-bindir	ABCB1	[AG]	Exon	AC002457		No Match	M	Possible a	http //www	10		
12	7	176	ATP-bindir	ABCB1	[CT]	Exon	M29445	1516019	0	M	Possible a	http //www	11		
13	11	76022	ATP-bindir	ABCC8	[CT]	Exon	AC003969		0	M	NA, Assoc	http //www	12		
14	1	55	acyl-Coen	ACADM	[AG]	Exon	M91431		0	M	Possible a	http //www	13		
15	5	1309	adrenergic	ADRB2	[AG]	Exon	J02960	1510175	0	M	NA, assoc	http //www	14		
16	5	1754	adrenergic	ADRB2	[CT]	Exon	J02960		0	M	NA, assoc	http //www	15		
17	12	113	aldehyde c	ALDH2	[AG]	Exon	AF164120	676	0	M	Possible a	http //www	16		
18	3	3328	calcium-se	CASR	[GT]	Exon	NM_000388		0	M	NA Assoc	http //www	17		
19	16	1300	cholestery	CETP	[AG]	Exon	M32997		0	M	Possible a	http //www	18		
20	16	681	cholestery	CETP	[AG]	Exon	M32998		0	M	Possible a	http //www	19		
21	10	2492	cytochrom	CYP2E	[AT]	Exon	J02843		0	M	NA, Assoc	http //www	20		
22	16	191	diaphorase	DIA4	[CT]	Exon	M81600	2420673	0	M	NA, Assoc	http //www	21		
23	4	2445	fatty acid b	FABP2	[AG]	Exon	M18079	2419923	0	M	NA It may	http //www	22		
24	1	279	flavin cont	FMO3	[AG]	Exon	U39963		0	M	NA, may p	http //www	23		
25	2	5505	glucagon	GCG	[AG]	Exon	X03991		0	M	NA Assoc.	http //www	24		
26	17	123	glucagon r	GCGR	[AG]	Exon	L24751		0	M	association	http //www	25		
27	19	260	glycogen s	GYS1	[AG]	Exon	Z33628		0	M	NA, Assoc	http //www	26		

Sheet1 Sheet2 Sheet3

Ready

PCT/GB2005/050168

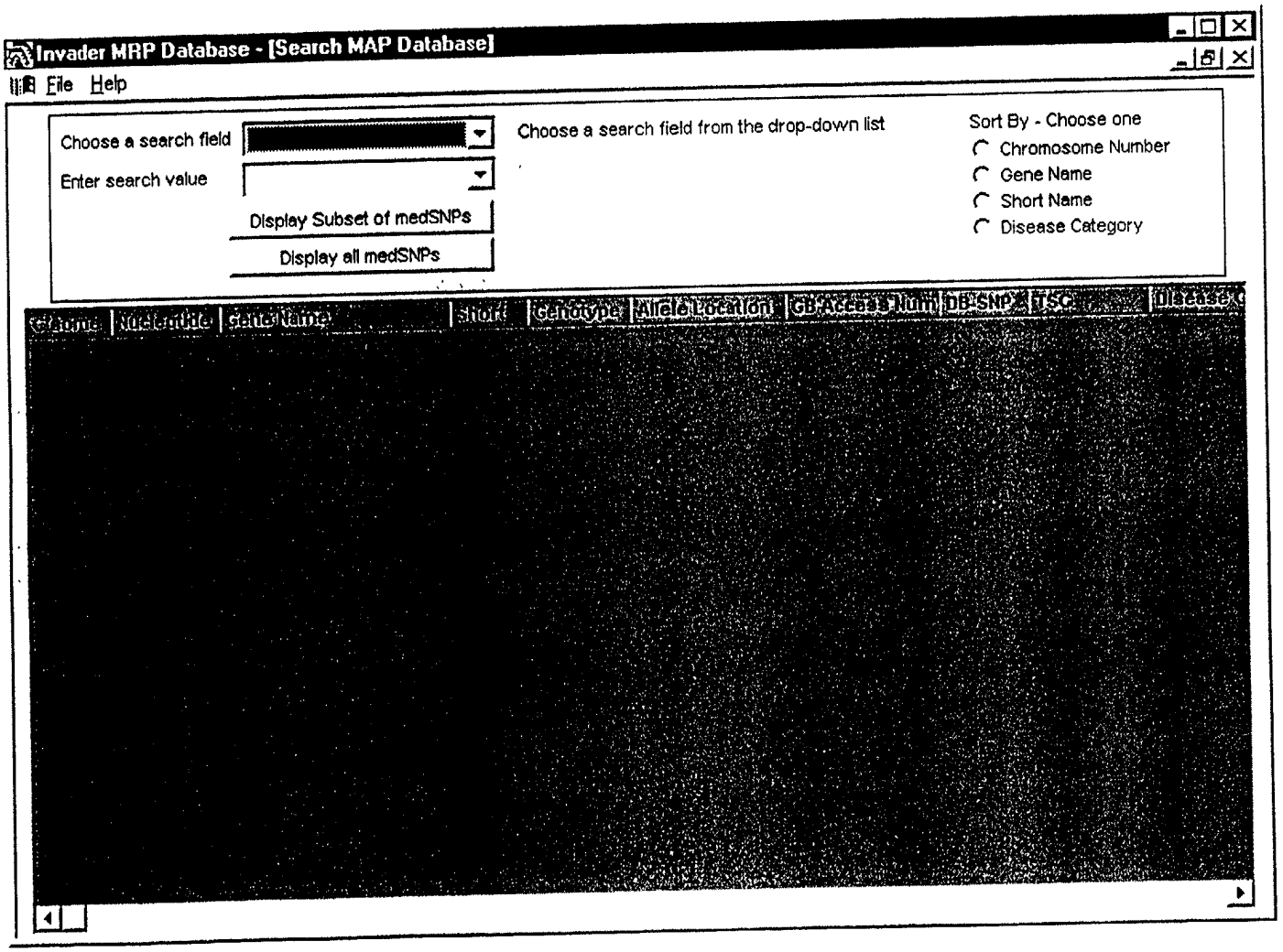
FIGURE 15



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
A	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	48068	NTB	53536	NTB	47865	NTB	37474	NTB	45006	NTB
B	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	55560	NTB	47867	NTB	37475	NTB	47861	NTB
C	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	56731	NTB	47868	NTB	41409	NTB	47810	NTB
D	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	56732	NTB	47938	NTB	41420	NTB	47960	NTB
E	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	56739	NTB	53412	NTB	44907	NTB	47963	NTB
F	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	41452	NTB	53418	NTB	45080	NTB	54762	NTB
G	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	41453	NTB	53470	NTB	47893	NTB	54787	NTB
H	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	47894	NTB	53550	NTB	41284	NTB	54968	NTB
I	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB		NTB	47895	NTB	66900	NTB	47877	NTB	55553	NTB
J	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB		NTB	37470	NTB	34573	NTB	47967	NTB		NTB
K	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB		NTB	37879	NTB	47927	NTB	41064	NTB		NTB
L	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB		NTB	41160	NTB	53478	NTB	47888	NTB		NTB
M	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	41236	NTB	41364	NTB	53488	NTB	47889	NTB		NTB
N	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB		NTB	[illegible]	NTB	41646	NTB	41365	NTB	53489	NTB	47892	NTB		NTB
O	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB		NTB	[illegible]	NTB	44900	NTB	41475	NTB	37302	NTB	41284	NTB		NTB
P	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB	[illegible]	NTB		NTB	[illegible]	NTB	44901	NTB	44927	NTB	55562	NTB	41541	NTB		NTB

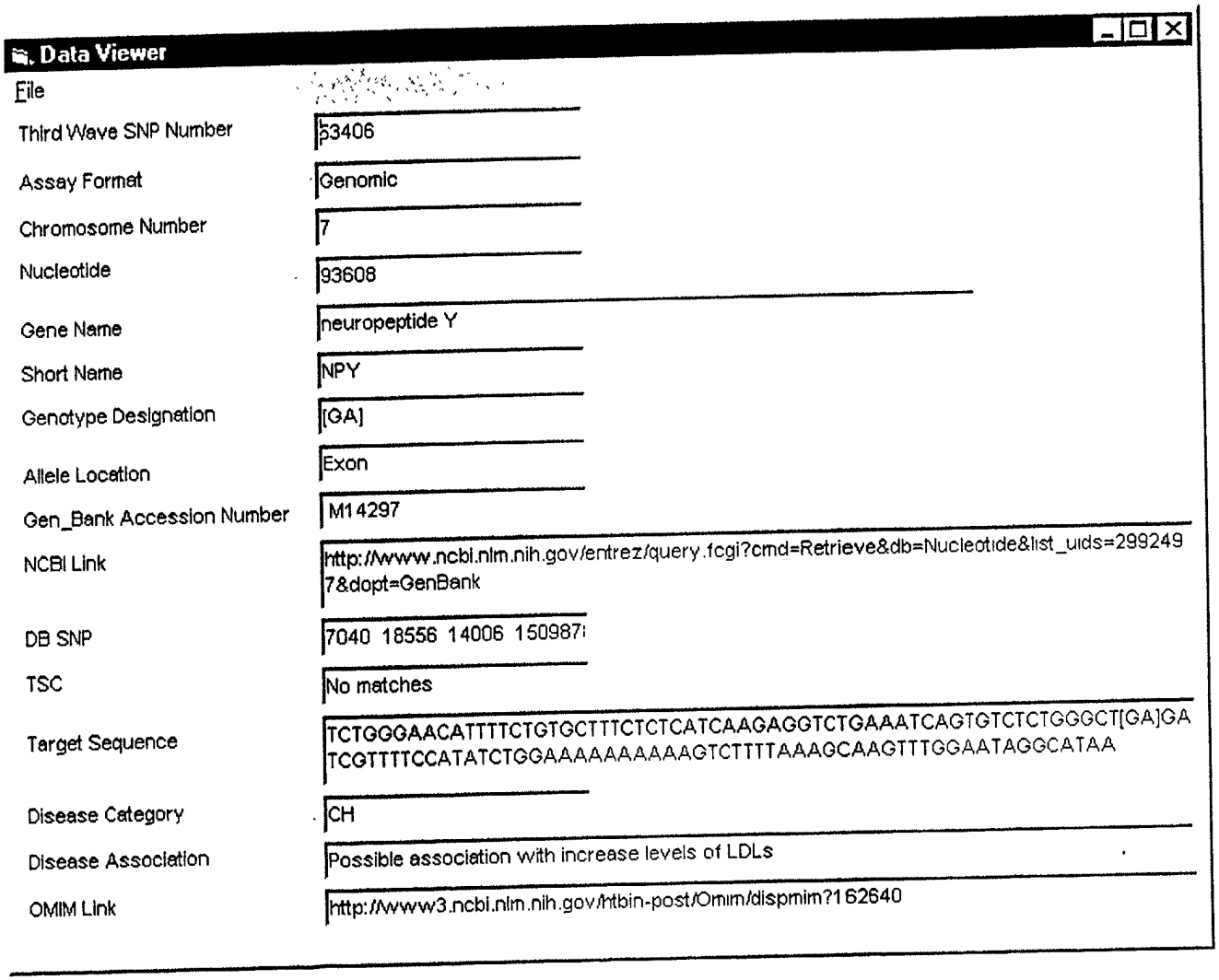
PCT/US02/26650

FIGURE 16



PCT/US01/32600

FIGURE 17



PBNT30 "SEP02663

FIGURE 18

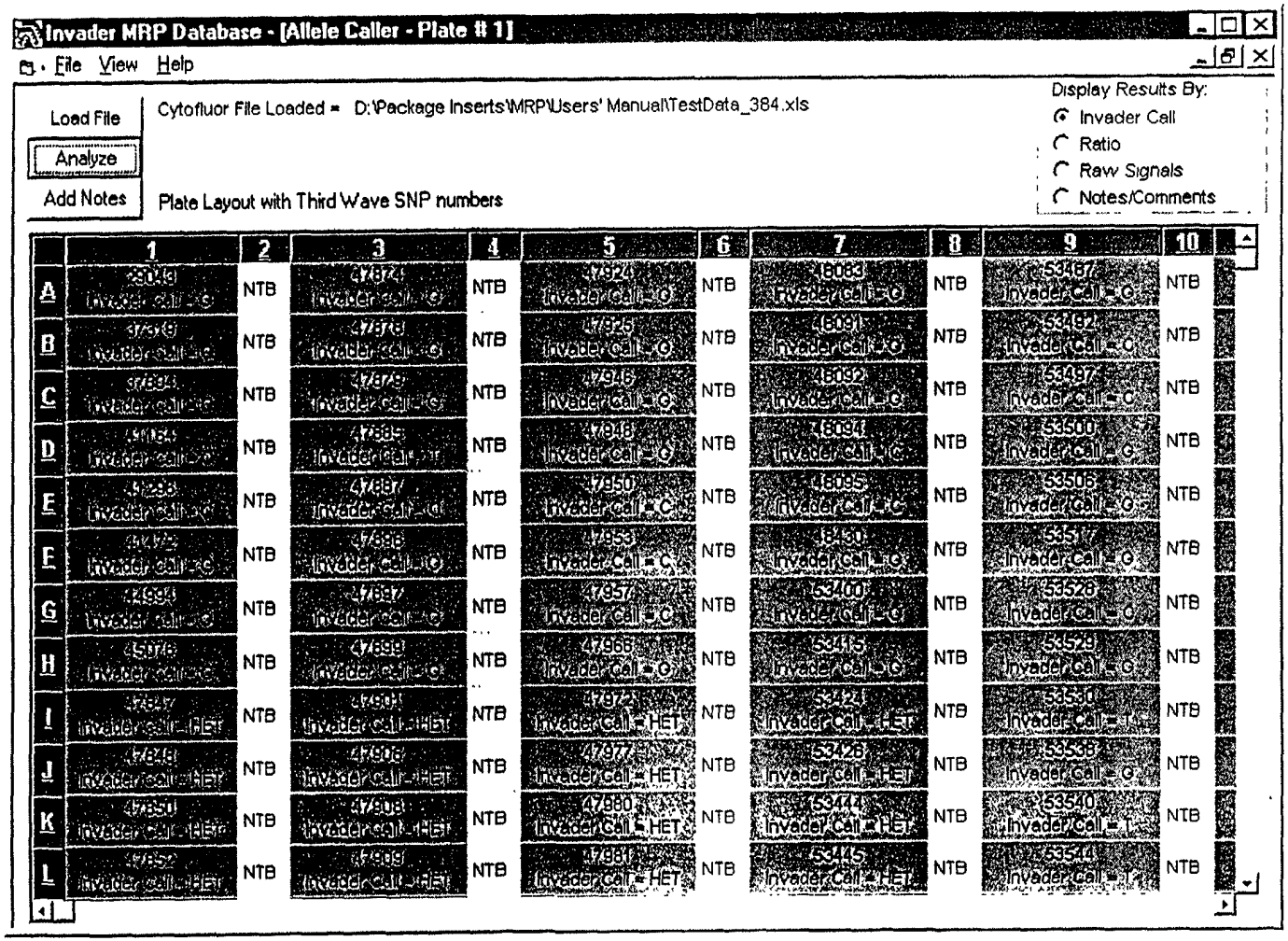


FIGURE 19

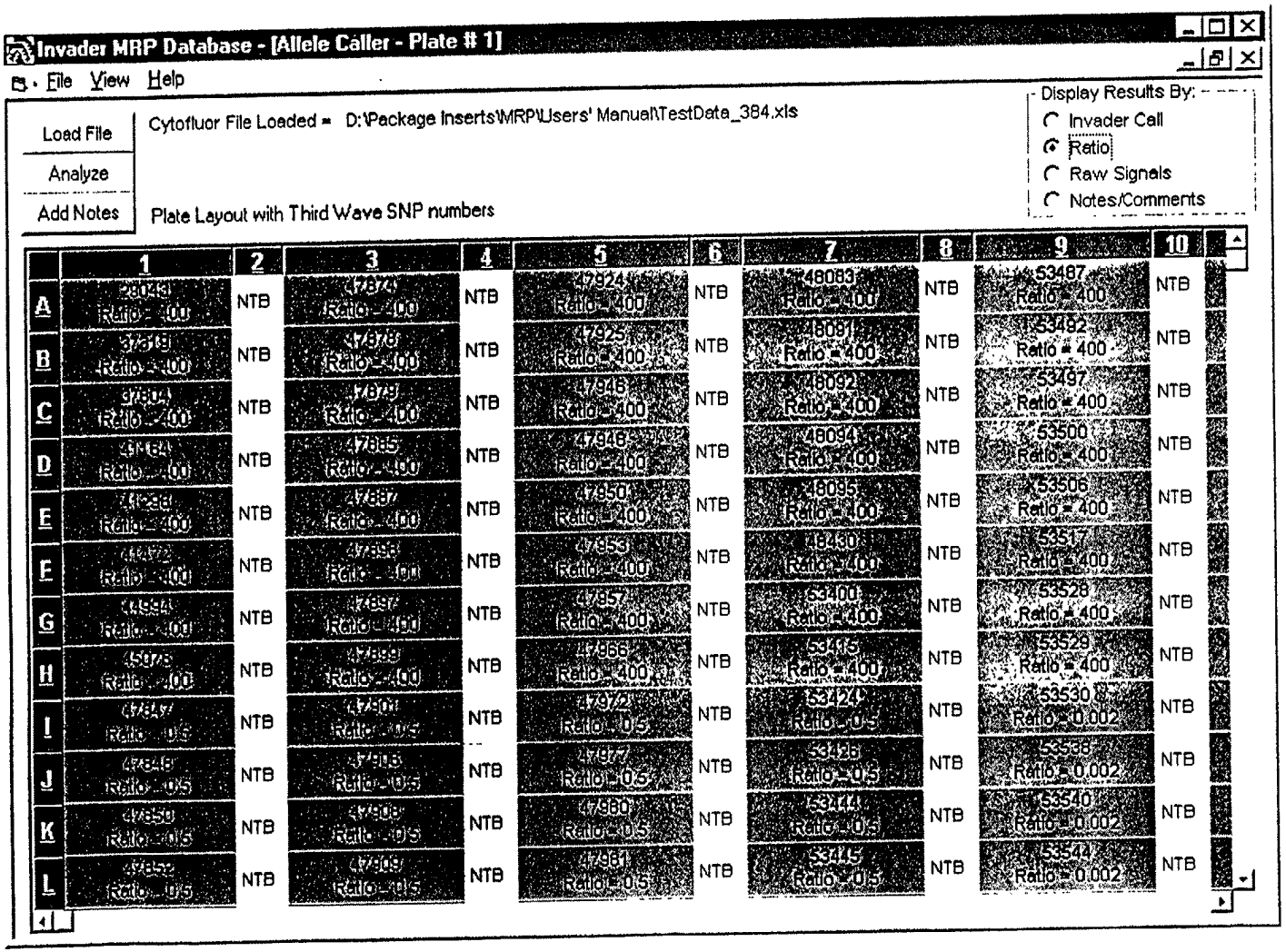
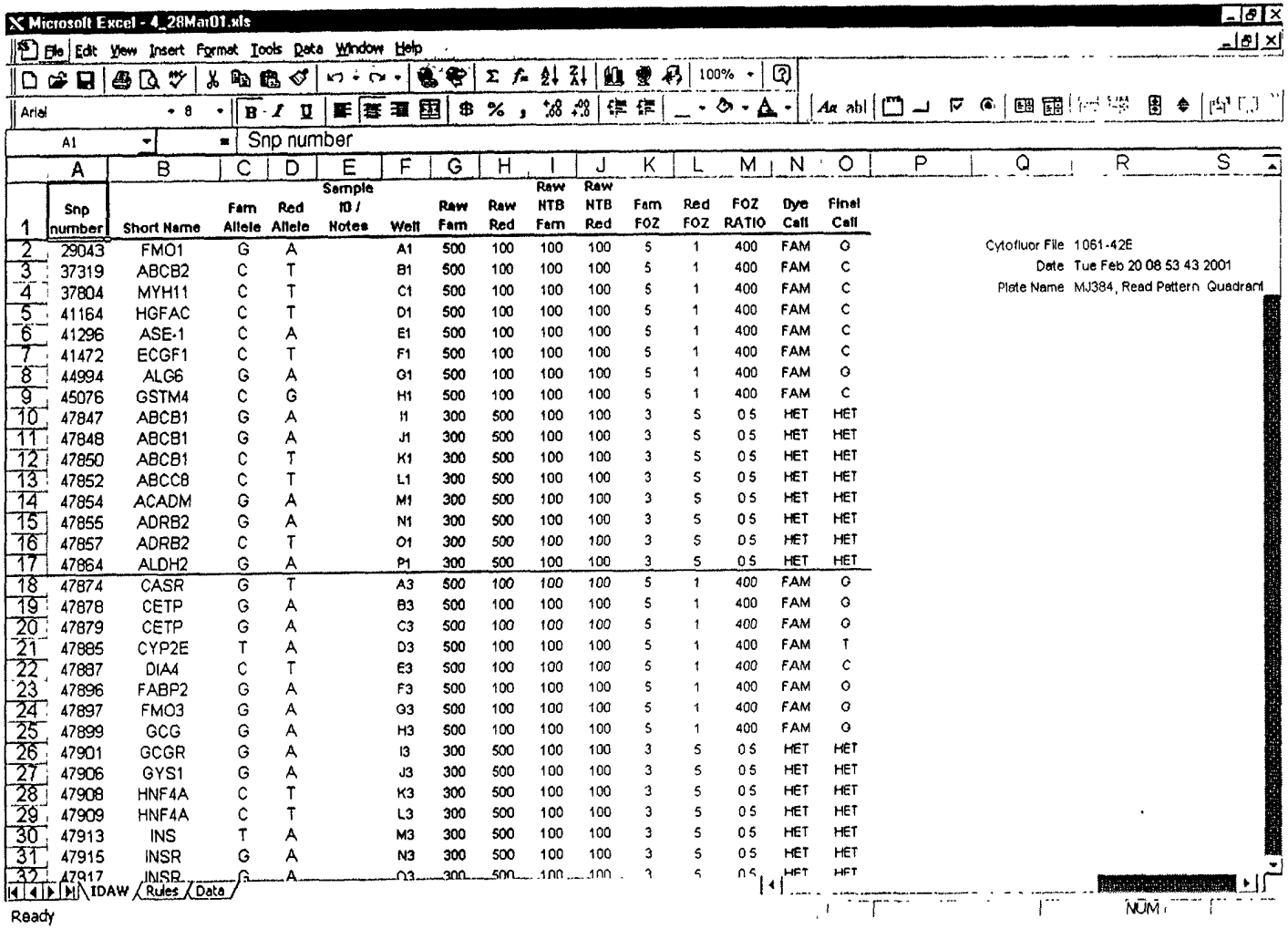

Invader MRP Database - [Allele Caller - Plate # 1]
File View Help
Load File
Analyze
Add Notes
Cytofluor File Loaded = D:\Package Inserts\MRP\Users' Manual\TestData_384.xls
Plate Layout with Third Wave SNP numbers
Display Results By:
Invader Call
Ratio
Raw Signals
Notes/Comments
1 2 3 4 5 6 7 8 9 10
A B C D E F G H I J K L
NTB
Ratio = 400
Ratio = 0.5
Ratio = 0.002

FIGURE 20



Microsoft Excel - 4_28Mar01.xls

File Edit View Insert Format Tools Data Window Help

Arial 8

A1 = Snp number

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	Snp number	Short Name	Fam Allele	Red Allele	Sample ID / Notes	Well	Raw Fam	Raw Red	Raw NTB Fam	Raw NTB Red	Fam FOZ	Red FOZ	FOZ RATIO	Dye Call	Final Call
2	29043	FMO1	G	A		A1	500	100	100	100	5	1	400	FAM	G
3	37319	ABCB2	C	T		B1	500	100	100	100	5	1	400	FAM	C
4	37804	MYH11	C	T		C1	500	100	100	100	5	1	400	FAM	C
5	41164	HGFAC	C	T		D1	500	100	100	100	5	1	400	FAM	C
6	41296	ASE-1	C	A		E1	500	100	100	100	5	1	400	FAM	C
7	41472	ECGF1	C	T		F1	500	100	100	100	5	1	400	FAM	C
8	44994	ALG6	G	A		G1	500	100	100	100	5	1	400	FAM	G
9	45076	GSTM4	C	G		H1	500	100	100	100	5	1	400	FAM	C
10	47847	ABCB1	G	A		I1	300	500	100	100	3	5	0.6	HET	HET
11	47848	ABCB1	G	A		J1	300	500	100	100	3	5	0.6	HET	HET
12	47850	ABCB1	C	T		K1	300	500	100	100	3	5	0.6	HET	HET
13	47852	ABCC8	C	T		L1	300	500	100	100	3	5	0.6	HET	HET
14	47854	ACADM	G	A		M1	300	500	100	100	3	5	0.6	HET	HET
15	47855	ADRB2	G	A		N1	300	500	100	100	3	5	0.6	HET	HET
16	47857	ADRB2	C	T		O1	300	500	100	100	3	5	0.6	HET	HET
17	47864	ALDH2	G	A		P1	300	500	100	100	3	5	0.6	HET	HET
18	47874	CASR	G	T		A3	500	100	100	100	5	1	400	FAM	G
19	47878	CETP	G	A		B3	500	100	100	100	5	1	400	FAM	G
20	47879	CETP	G	A		C3	500	100	100	100	5	1	400	FAM	G
21	47885	CYP2E	T	A		D3	500	100	100	100	5	1	400	FAM	T
22	47887	DIA4	C	T		E3	500	100	100	100	5	1	400	FAM	C
23	47896	FABP2	G	A		F3	500	100	100	100	5	1	400	FAM	G
24	47897	FMO3	G	A		G3	500	100	100	100	5	1	400	FAM	G
25	47899	GCG	G	A		H3	500	100	100	100	5	1	400	FAM	G
26	47901	GCGR	G	A		I3	300	500	100	100	3	5	0.6	HET	HET
27	47906	GYS1	G	A		J3	300	500	100	100	3	5	0.6	HET	HET
28	47908	HNF4A	C	T		K3	300	500	100	100	3	5	0.6	HET	HET
29	47909	HNF4A	C	T		L3	300	500	100	100	3	5	0.6	HET	HET
30	47913	INS	T	A		M3	300	500	100	100	3	5	0.6	HET	HET
31	47915	INSR	G	A		N3	300	500	100	100	3	5	0.6	HET	HET
32	47917	INSR	G	A		O3	300	500	100	100	3	5	0.6	HET	HET

Cytofluor File 1061-42E
Date Tue Feb 20 08 53 43 2001
Plate Name MJ384, Read Pattern Quadrant

IDAW Rules Data

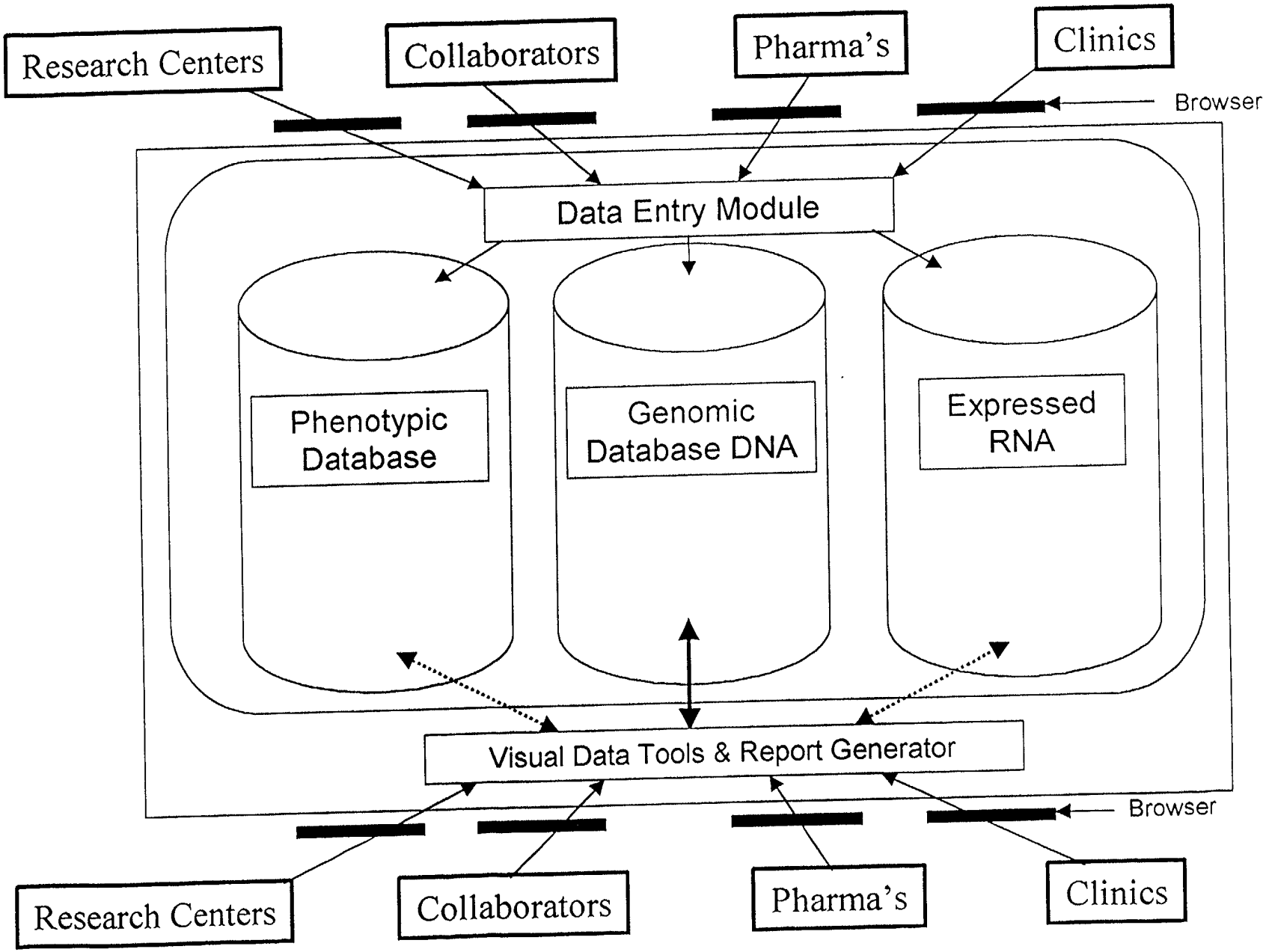
Ready

NUM

18/02

PCT/US02/26660

FIGURE 21



18/12

Invader Assay	Oligo	Polymorphism	Sequence	Shelf Name
Factor V Leiden (1691) Monoplex	Invader		5'-TAATGTGTAAGAGCAGATCCCTGGACAGR*CC-3'	FV G1691A
	WT Probe	G	5'-AACGAGGCGCACGAGGAATACAGGTATTTTGTC-3'	FV G1691A
	Mut Probe	A	5'-AACGAGGCGCACAAGGAATACAGGTATTTTGTC-3'	FV G1691A
	FRET		5'-F**-CCTC-Q***-GTCTCGGTTTTCCGAGACGAGGGTGCGCCTCGTTT-3'	FV G1691A
	WT Target	G	5'-AAGGACAAAATACCTGTATTCCTCGCCTGTCCAGGGATCTGCTCTTACAGATTAGA-3'	FV G1691A
	Mut Target	A	5'-AAGGACAAAATACCTGTATTCCTTGCCTGTCCAGGGATCTGCTCTTACAGATTAGA-3'	FV G1691A
Factor II (Prothrombin) Monoplex	Invader		5'-TATGGTTCCCAATAAAAGTGACTCTCAGCT-3'	FII G20210A
	WT Probe	G	5'-AACGAGGCGCACGAGCCTCAATGCTCCC-3'	FII G20210A
	Mut Probe	A	5'-AACGAGGCGCACAAGCCTCAATGCTCCC-3'	FII G20210A
	FRET		5'-F**-CCTC-Q***-GTCTCGGTTTTCCGAGACGAGGGTGCGCCTCGTTT-3'	FII G20210A
	WT Target	G	5'-TAGCACTGGGAGCATTGAGGCTCGCTGAGAGTCACTTTTATTGGGAACCATAGTTTTAGAAACACAAAAAT-3'	FII G20210A
	Mut Target	A	5'- TAGCACTGGGAGCATTGAGGCTTGCTGAGAGTCACTTTTATTGGGAACCATAGTTTTAGAAACACAAAAAT-3'	FII G20210A
Methylenetetrahydrofolate reductase (677) Monoplex	Invader		5'-CAAAGAAAAGCTGCGTGATGATGAAATCGC -3'	MTHFR C677T
	WT Probe	C	5'-AACGAGGCGCACGCTCCCGCAGACACX-3'	MTHFR C677T
	Mut Probe	T	5'-AACGAGGCGCACACTCCCGCAGACACCX -3'	MTHFR C677T
	FRET		5'-F**-CCTC-Q***-GTCTCGGTTTTCCGAGACGAGGGTGCGCCTCGTTT-3'	MTHFR C677T
	WT Target	C	5'- GAAGGTGTCTGCGGGAGCCGATTTCATCATCACGCAGCTTTTCTTTGAGG -3'	MTHFR C677T
	Mut Target	T	5'- GAAGGTGTCTGCGGGAGTCGATTTCATCATCACGCAGCTTTTCTTTGAGG -3'	MTHFR C677T
Methylenetetrahydrofolate reductase (1298) Monoplex	Invader		5'-cccgagaggtaaagaacaaagacttcaaagacactta-3'	MTHFR A1298C
	WT Probe	C	5'-aacgaacgcgcagTcttcactggtcagctatt-3'	MTHFR A1298C
	Mut Probe	A	5'-aacgaacgcgcagGcttcactggtcagcatt-3'	MTHFR A1298C
	FRET		5'-FL-acgc(Cy3)gtctcggttttccgagacgcgtctgcgcgttcgU*U*U*-3' (U* = 2'-O-methyl U)	MTHFR A1298C
	WT Target	C	5' – ggagctgaccagtgaagAaagtgtctttgaagtctttgttctttacctctcgggattt-3'	MTHFR A1298C
	Mut Target	A	5' – ggagctgaccagtgaagCaagtgtctttgaagtctttgttctttacctctcgggattt-3'	MTHFR A1298C
Hereditary Hemochromatosis, C282Y, Monoplex	Invader		5'-cccctggggaagagcagagatatacgtc-3'	HH C282Y
	WT Probe	G	5'-aacgaacgcgcagGccaggtggagcattt-3'	HH C282Y
	Mut Probe	A	5'-aacgaacgcgcagAccaggtggagcac-3'	HH C282Y
	FRET		5'-FL-ctcc(Cy3)gtctcggttttccgagacggagctgcgcgttcgU*U*U*-3' (U* = 2'-O-methyl U)	HH C282Y
	WT Target		5'-ggtgctccacctggCacgtatatctctgctcttccccag-3'	HH C282Y
	Mut Target		5'-ggtgctccacctggTacgtatatctctgctcttccccag-3'	HH C282Y
Hereditary Hemochromatosis, H63D, Monoplex	Invader		5'-gggctccacacggcgactctcatt-3'	HH H63D
	WT Probe	C	5'-aagcacgcagcacGatcatagaacacgaacagttt-3'	HH H63D
	Mut Probe	G	5'-aagcacgcagcacCatcatagaacacgaacagttt-3'	HH H63D
	FRET		5'-FL-acgc(Cy3)gtctcggttttccgagacgcgtgtgctgcgtgcU*U*U*-3' (U* = 2'-O-methyl U)	HH H63D
	WT Target	C	5'-agctgttcgtgttctatgatCatgagagtcgccgtgtggagccccg-3'	HH H63D
	Mut Target	G	5'-agctgttcgtgttctatgatGatgagagtcgccgtgtggagccccg-3'	HH H63D
Factor V Leiden (G1691A) Biplex	Invader		5'- tctaatctgtaagagcagatccctggacagGcc-3'	FV G1691A
	Invader (1689)		5'- tctaatctgtaagagcagatccctggacagAcc-3'	FV G1691A
	WT Probe		5'-cgcgaggccgGaggaatacaggtattttgtcc-hexandiol-3'	FV G1691A
	Mut Probe		5' -aggccacggacgAaggaatacaggtattttgtc-hexandiol-3'	FV G1691A
	FRET (WT)		5'-Red Dye-tct-Z28-agccggttttccggctgagacggcctcgcg-hexandiol-3'	FV G1691A
	FRET (Mut)		5'-FAM-tct-Z28-agccggttttccggctgagacgtccgtggcct-hexandiol-3'	FV G1691A
	WT Target		5'-tcaaggacaaaatacctgtattcctCgcctgtccagggatctgctcttacagattagaagtgattt-3'	FV G1691A
	Mut Target		5'-tcaaggacaaaatacctgtattcctGgcctgtccagggatctgctcttacagattagaagtgattt-3'	FV G1691A
Factor II (G20210A) Biplex	Invader		5'-TATGGTTCCCAATAAAAGTGACTCTCAGCT-3'	FII G20210A
	WT Probe		5'-ACGGACGCGGAGGAGCCTCAATGCTACCAG-3'	FII G20210A
	Mut Probe		5'-AGGCCACGGACGAAGCCTCAATGCTCC-3'	FII G20210A
	FRET (WT)		5'-R*-TCT-Q***-TCGGCCTTTTGGCCGAGAGACTCCGCGTCCGT-3'	FII G20210A
	FRET (Mut)		5'-F**-TCT-Q***- AGCCGGTTTTCCGGCTGAGACGTCCGTGGCCT-3'	FII G20210A
	WT Target		5'-TAGCACTGGGAGCATTGAGGCTCGCTGAGAGTCACTTTTATTGGGAACCATAGTTTTAGAAACACAAAAAT-3'	FII G20210A
	Mut Target		5'-TAGCACTGGGAGCATTGAGGCTTGCTGAGAGTCACTTTTATTGGGAACCATAGTTTTAGAAACACAAAAAT-3'	FII G20210A
Methylenetetrahydrofolate reductase (677) Biplex	Invader		5'-CAAAGAAAAGCTGCGTGATGATGAAATCGC -3'	MTHFR C677T
	Invader (SIP)		5'-CAAAGAAAAGCTGCGTGATGATGAAATTGC -3'	MTHFR C677T
	WT Probe		5'-ACGGACGCGGAGGCTCCCGCAGACAC-3'	MTHFR C677T
	Mut Probe		5'-AGGCCACGGACGACTCCCGCAGACAC -3'	MTHFR C677T
	FRET (WT)		5'-F**-TCT-Q***-AGCCGGTTTTCCGGCTGAGACTCCGCGTCCGT-3'	MTHFR C677T
	FRET (Mut)		5'-R**-TCT-Q***-TCGGCCTTTTGGCCGAGAGACGTCCGTGGCCT-3'	MTHFR C677T
	WT Target		5'- GAAGGTGTCTGCGGGAGCCGATTTCATCATCACGCAGCTTTTCTTTGAGG -3'	MTHFR C677T

FIGURE 22

Methylenetetrahydrofolate reductase (1298) Biplex	Mut Target	5'- GAAGGTGTCTGCGGGAGTCGATTTCATCATCACGCAGCTTTTCTTTGAGG -3'	MTHFR C677T
	Invader	5'-CCCGAGAGGTAAAGAACAAAGACTTCAAAGACACTTA-3'	MTHFR A1298C
	WT Probe	5'-AGGCCAGGGACGTCTTCACTGGTCAGCT-3'	MTHFR A1298C
	Mut Probe	5'-CGCGCCGAGGGCTTCACTGGTCAGC-3'	MTHFR A1298C
	FRET (WT)	5'-F**-ACT-Q***-AGCCGGTTTTCCGGCTGAGTCGTCCGTGGCCT-3'	MTHFR A1298C
	FRET (Mut)	5'-R**-TCT-Q***-TCGGCCTTTTGGCCGAGAGACCTCGGCGCG-3'	MTHFR A1298C
	WT Target	5'- GGAGCTGACCAGTGAAGAAAGTGTCTTTGAAGTCTTTGTTCTTTACCTCTCGGG ATTT-3'	MTHFR A1298C
	Mut Target	5'- GGAGCTGACCAGTGAAGCAAGTGTCTTTGAAGTCTTTGTTCTTTACCTCTCGGG ATTT-3'	MTHFR A1298C

Invader Assay	Oligo	Polymorphism Detected	Dye	Sequence	Short Name
Factor V Leiden (G1691A) Monoplex	Invader			5'-TAATCTGTAAGAGCAGATCCCTGGACAGR*CC-3'	FV G1691A
	WT Probe	G (antisense design)		5'-AACGAGGCGCACGAGGAATACAGGTATTTTGTC-3'	FV G1691A
	Mut Probe	A (antisense design)		5'-AACGAGGCGCACAAGGAATACAGGTATTTTGTC-3'	FV G1691A
	FRET		FAM/Cy3	5'-F**-CCTC-Q***-GTCTCGGTTTTCCGAGACGAGGGTGCGCCTCGTTT-3'	FV G1691A
	WT Target			5'-AAGGACAAAATACCTGTATTCCTCGCCTGTCCAGGGATCTGCTCTTACAGATTAGA-3'	FV G1691A
	Mut Target			5'-AAGGACAAAATACCTGTATTCCTTGCCTGTCCAGGGATCTGCTCTTACAGATTAGA-3'	FV G1691A
Factor II (Prothrombin, G20210A) Monoplex	Invader			5'-TATGGTTCCCAATAAAAGTGACTCTCAGCT-3'	FII G20210A
	WT Probe	G (antisense design)		5'-AACGAGGCGCACGAGCCTCAATGCTCCC-3'	FII G20210A
	Mut Probe	A (antisense design)		5'-AACGAGGCGCACAAGCCTCAATGCTCCC-3'	FII G20210A
	FRET		FAM/Cy3	5'-F**-CCTC-Q***-GTCTCGGTTTTCCGAGACGAGGGTGCGCCTCGTTT-3'	FII G20210A
	WT Target			5'-TAGCACTGGGAGCATTGAGGCTCGCTGAGAGTCACTTTTATTGGGAACCATAGTTTTAGAAACACAAAAAT -3'	FII G20210A
	Mut Target			5'- TAGCACTGGGAGCATTGAGGCTTGCTGAGAGTCACTTTTATTGGGAACCATAGTTTTAGAAACACAAAAAT -3'	FII G20210A
Methylenetetrahydrofolate reductase (C677T) Monoplex	Invader			5'-CAAAGAAAAGCTGCGTGATGATGAAATCGC -3'	MTHFR C677T
	WT Probe	C		5'-AACGAGGCGCACGCTCCCGCAGACACX-3'	MTHFR C677T
	Mut Probe	T		5'-AACGAGGCGCACACTCCCGCAGACACCX -3'	MTHFR C677T
	FRET		FAM/Cy3	5'-F**-CCTC-Q***-GTCTCGGTTTTCCGAGACGAGGGTGCGCCTCGTTT-3'	MTHFR C677T
	WT Target			5'- GAAGGTGTCTGCGGGAGCCGATTTCATCATCACGCAGCTTTTCTTTGAGG -3'	MTHFR C677T
	Mut Target			5'- GAAGGTGTCTGCGGGAGTCGATTTCATCATCACGCAGCTTTTCTTTGAGG -3'	MTHFR C677T
Methylenetetrahydrofolate reductase (A1298C) Monoplex	Invader			5'-cccgagaggtaaagaacaaagacttcaaagacactta-3'	MTHFR A1298C
	WT Probe	A		5'-aacgaacgcgcagTcttcactggtcagctatt-3'	MTHFR A1298C
	Mut Probe	C		5'-aacgaacgcgcagGcttcactggtcagcatt-3'	MTHFR A1298C
	FRET		FAM/Cy3	5'-FL-acgc(Cy3)gtctcggttttccgagacgcgtctgcgcgttcgU*U*U*-3' (U* = 2'-O-methyl U)	MTHFR A1298C
	WT Target			5' – ggagctgaccagtgaagAaagtgtctttgaagtctttgttctttacctctcgggattt-3'	MTHFR A1298
	Mut Target			5' – ggagctgaccagtgaagCaagtgtctttgaagtctttgttctttacctctcgggattt-3'	MTHFR A1298C
Hereditary Hemochromatosis, C282Y, Monoplex	Invader			5'-*ccccctggggaagagcagagatatacgtc*-3'	HH C282Y
	WT Probe	G (antisense design)		5'-aacgaacgcgcagGccaggtggagcattt-3'	HH C282Y
	Mut Probe	A (antisense design)		5'-aacgaacgcgcagAccaggtggagcac-3'	HH C282Y
	FRET		FAM/Cy3	5'-FL-ctcc(Cy3)gtctcggttttccgagacggagctgcgcgttcgU*U*U*-3' (U* = 2'-O-methyl U)	HH C282Y
	WT Target			5'-ggtgctccacctggCacgtatatctctgctcttccccag-3'	HH C282Y
	Mut Target			5'-ggtgctccacctggTacgtatatctctgctcttccccag-3'	HH C282Y
Hereditary Hemochromatosis, H63D, Monoplex	Invader			5'-gggctccacacggcgactctcatt-3'	HH H63D
	WT Probe	C		5'-aagcacgcagcacGatcatagaacacgaacagttt-3'	HH H63D
	Mut Probe	G		5'-aagcacgcagcacCatcatagaacacgaacagttt-3'	HH H63D
	FRET		FAM/Cy3	5'-FL-acgc(Cy3)gtctcggttttccgagacgcgtgtgctgcgtgcU*U*U*-3' (U* = 2'-O-methyl U)	HH H63D
	WT Target			5'-agctgttcgtgttctatgatCatgagagtcgccgtgtggagccccg-3'	HH H63D
	Mut Target			5'-agctgttcgtgttctatgatGatgagagtcgccgtgtggagccccg-3'	HH H63D
Factor V Leiden (G1691A) Biplex	Invader			5'- tctaatctgtaagagcagatccctggacagGcc-3'	FV G1691A
	Invader (1689)			5'- tctaatctgtaagagcagatccctggacagAcc-3'	FV G1691A
	WT Probe	G (antisense design)		5'-cgcgaggccgGaggaatacaggtattttgtcc-hexandiol-3'	FV G1691A
	Mut Probe	A (antisense design)		5' -aggccacggacgAaggaatacaggtattttgtc-hexandiol-3'	FV G1691A
	FRET (WT)		Red Dye/Z28	5'-Red Dye-tct-Z28-agccggttttccggctgagacggcctcgcg-hexandiol-3'	FV G1691A
	FRET (Mut)		FAM/Z28	5'-FAM-tct-Z28-agccggttttccggctgagacgtccgtggcct-hexandiol-3'	FV G1691A
	WT Target			5'-tcaaggacaaaatacctgtattcctCgcctgtccagggatctgctcttacagattagaagtgattt-3'	FV G1691A
	Mut Target			5'-*tcaaggacaaaatacctgtattcctGgcctgtccagggatctgctcttacagattagaagtgattt*-3'	FV G1691A
Factor II (G20210A) Biplex	Invader			5'-TATGGTTCCCAATAAAAGTGACTCTCAGCT-3'	FII G20210A
	WT Probe	G (antisense design)		5'-ACGGACGCGGAGGAGCCTCAATGCTACCAG-3'	FII G20210A
	Mut Probe	A (antisense design)		5'-AGGCCACGGACGAAGCCTCAATGCTCC-3'	FII G20210A
	FRET (WT)		Red Dye/Z28	5'-R*-TCT-Q***-TCGGCCTTTTGGCCGAGAGACTCCGCGTCCGT-3'	FII G20210A
	FRET (Mut)		FAM/Z28	5'-F**-TCT-Q***- AGCCGGTTTTCCGGCTGAGACGTCCGTGGCCT-3'	FII G20210A
	WT Target			5'-TAGCACTGGGAGCATTGAGGCTCGCTGAGAGTCACTTTTATTGGGAACCATAGTTTTAGAAACACAAAAAT -3'	FII G20210A
	Mut Target			5'-TAGCACTGGGAGCATTGAGGCTTGCTGAGAGTCACTTTTATTGGGAACCATAGTTTTAGAAACACAAAAAT -3'	FII G20210A
Methylenetetrahydrofolate reductase (C677T) Biplex	Invader			5'-CAAAGAAAAGCTGCGTGATGATGAAATCGC -3'	MTHFR C677T
	Invader (SIP)			5'-CAAAGAAAAGCTGCGTGATGATGAAATTGC -3'	MTHFR C677T
	WT Probe	C		5'-ACGGACGCGGAGGCTCCCGCAGACAC-3'	MTHFR C677T
	Mut Probe	T		5'-AGGCCACGGACGACTCCCGCAGACAC -3'	MTHFR C677T
	FRET (WT)		FAM/Z28	5'-F**-TCT-Q***-AGCCGGTTTTCCGGCTGAGACTCCGCGTCCGT-3'	MTHFR C677T
	FRET (Mut)		Red Dye/Z28	5'-R**-TCT-Q***-TCGGCCTTTTGGCCGAGAGACGTCCGTGGCCT-3'	MTHFR C677T
	WT Target			5'- GAAGGTGTCTGCGGGAGCCGATTTCATCATCACGCAGCTTTTCTTTGAGG -3'	MTHFR C677T
	Mut Target			5'- *GAAGGTGTCTGCGGGAGTCGATTTCATCATCACGCAGCTTTTCTTTGAGG* -3'	MTHFR C677T
Methylenetetrahydrofolate reductase (A1298C) Biplex	Invader			5'-CCCGAGAGGTAAAGAACAAAGACTTCAAAGACACTTA-3'	MTHFR A1298C
	WT Probe	A		5'-AGGCCACGGACGTCTTCACTGGTCAGCT-3'	MTHFR A1298C
	Mut Probe	C		5'-CGCGCCGAGGGCTTCACTGGTCAGC-3'	MTHFR A1298C
	FRET (WT)		FAM/Z28	5'-F**-ACT-Q***-AGCCGGTTTTCCGGCTGAGTCGTCCGTGGCCT-3'	MTHFR A1298C
	FRET (Mut)		Red Dye/Z28	5'-R**-TCT-Q***-TCGGCCTTTTGGCCGAGAGACCTCGGCGCG-3'	MTHFR A1298C
	WT Target			5'- GGAGCTGACCAGTGAAGAAAGTGTCTTTGAAGTCTTTGTTCTTTACCTCTCGGG ATTT-3'	MTHFR A1298C
	Mut Target			5'- GGAGCTGACCAGTGAAGCAAGTGTCTTTGAAGTCTTTGTTCTTTACCTCTCGGG ATTT-3'	MTHFR A1298C
					MTHFR A1298C

FIGURE 129B

SNP	OLIGO	PM	DC	OLIGO_SEQUENCE	GPCO	GPCH	SHORT_GENE_NAME
4205	I		S	GGTTCTCCCGAGAGGTAAAGAACAAAGACTTCAAAGACACTTC			
4205	P	A	S	CGCGCCGAGGTCTTCACTGGTCAGCTC			
4205	P	C	S	ATGACGTGGCAGACGCTTCACTGGTCAGC			
4205	T	A	S	GGAGGAGCTGACCAGTGAAGAAAGTGTCTTTGAAGTCTTTGTTCTTTACCTCTCGGGAGAACCAA			
4205	T	C	S	GGAGGAGCTGACCAGTGAAGCAAGTGTCTTTGAAGTCTTTGTTCTTTACCTCTCGGGAGAACCAA			
				GCCTTTGGGGAGCTGAAGGACTACTACCTCTTCTACCTGAAGAGCAAGTCCCCCAAGGAGGAGCTGCTGAAGATGTGGGGGGAGGAGCTGACCAGTGAAG[AC]A			
4205	IS	[AC]		AGTGTCTTTGAAGTCTTTGTTCTTTACCTCTCGGGAGAACCAAACCGGAATGGTCACAAAGTGAGTGATGCTGGAAGTGGGGACCCTGGTTCATCCCCT	ctg13980	1	
4206	I		A	CCACGCCGGCCCAGGCTGAAGA			
4206	P	C	A	ATGACGTGGCAGACCTGACTCTGCCCGC			
4206	P	T	A	CGCGCCGAGGTTGACTCTGCCCGC			
4206	T	C	A	GCCTGCGGGCAGAGTCAGCTTCAGCCTGGGCCGGCGTGGGA			
4206	T	T	A	GCCTGCGGGCAGAGTCAACTTCAGCCTGGGCCGGCGTGGGA			
				TAGTTTATGAAGGGTCGAGAAGGCGGGCGGCCAGCCTCGAGGTAGGGGGTTATTATCTTCCGCTGCCCGCCGCCCCCTCCCACGCCGGCCCAGGCTGAAG[CT]			
4206	IS	[CT]		TGACTCTGCCCGCAGGCCTCCAAAGACTTCATATGCTCCAGATCTCCTACTTCCGCGACCCCTATCACGTGTGGTACCAGGGCAACGCGTCGCTGGGGGG	ctg16586	20	
4208	I		A	GCACCCTCTCTGCACAGTCCCCTGAA			
4208	P	C	A	ATGACGTGGCAGACCCCTGACTGTCTATCCA			
4208	P	T	A	CGCGCCGAGGTCCTGACTGTCTATCCAC			
4208	T	C	A	AACTGTGGATAGACAGTCAGGGTCAGGGGACTGTGCAGAGAGGGTGCCA			
4208	T	T	A	AACTGTGGATAGACAGTCAGGATCAGGGGACTGTGCAGAGAGGGTGCCA			
				ACTCCCCTCTCCTCACAGCACTGACTCTTGCCTTCTCATGTTCTTTTCCCCTTGGTGGGCCTCGCCCCACACCTGGCACCCTCTCTGCACAGTCCCCTGA[CT]CCT			
4208	IS	[CT]		GACTGTCTATCCACAGTTCCTCTGACCATCCGCTGCTTCCTGGGCTGTGAGCTGCCTCCCGAGGGCTCTAGAGCCCATGTCTTCTTCGAAGTGGCTG	ctg16586	20	
4209	I		S	AAGATGCCTACAGCCACACCAGCAATGATGAAACA			
4209	P	A	S	CGCGCCGAGGTGCCCACCAGGACY			
4209	P	G	S	ATGACGTGGCAGACCGCCCACCAGGACY			
4209	T	A	S	GGGCGTCCTGGTGGGCAGTTTCATCATTGCTGGTGTGGCTGTAGGCATCTTCC			
4209	T	G	S	GGGCGTCCTGGTGGGCGGTTTCATCATTGCTGGTGTGGCTGTAGGCATCTTCC			
				CTCCTTGGGGGCCTATTCTTCGGGCTAACTCTTTGCATGTTCTGCAGGGAGCCAAACAAGCCGCTCCTACACTTCGCTGGTCCTGGGCGTCCTGGTGGGC[AG]G			
4209	IS	[AG]		TTTCATCATTGCTGGTGTGGCTGTAGGCATCTTCCTGTGCACAGGTGGACGGCGATGTTAATTACTCTCCAGCCCCGTCAGAAGGGGCTGGATTGATGG	ctg16586	20	
4210	I		A	GGACGGCGATGTTAATTACTCTCCAGCCCCT			
4210	P	C	A	CGCGCCGAGGCTCAGAAGGGGCTGG			
4210	P	G	A	ATGACGTGGCAGACGTCAGAAGGGGCTGG			
4210	T	C	A	CAATCCAGCCCCTTCTGAGGGGGCTGGAGAGTAATTAACATCGCCGTCCAC			
4210	T	G	A	CAATCCAGCCCCTTCTGACGGGGCTGGAGAGTAATTAACATCGCCGTCCAC			
				GGTCCTGGGCGTCCTGGTGGGCAGTTTCATCATTGCTGGTGTGGCTGTAGGCATCTTCCTGTGCACAGGTGGACGGCGATGTTAATTACTCTCCAGCCCC[CG]T			
4210	IS	[CG]		CAGAAGGGGCTGGATTGATGGAGGCTGGCAAGGGAAAGTTTCAGCTCACTGTGAAGCCAGACTCCCCAACTGAAACACCAGAAGGTTTGGAGTGACAGC	ctg16586	20	PROCR
4211	I		S	CTTGGCATCCAAAGACAAGCACTTCTCTTGGCTT			
4211	P	G	S	CGCGCCGAGGCTTTTCCCAGTTAAATGAGC			
4211	P	C	S	ATGACGTGGCAGACGTTTTCCCAGTTAAATGAGC			
4211	T	G	S	TCGGGCTCATTTAACTGGGAAAAGAGCCAAGAGAAGTGCTTGTCTTTGGATGCCAAGTT			
4211	T	C	S	TCGGGCTCATTTAACTGGGAAAACAGCCAAGAGAAGTGCTTGTCTTTGGATGCCAAGTT			
				GATGAGATATACTATCCTTCCCAGCTCCTTGTCCGCAAGACTGGATCTGGCATGGAGAAAACTGTTACCTATTTTCCTCGGGCTCATTTAACTGGGAAAA[GC]AGC			
4211	IS	[GC]		CAAGAGAAGTGCTTGTCTTTGGATGCCAAGTTGCTGAAAATTAATAGCACAGCTGATCTGGTGAGTGTTCATGGATATTTGTTGGGGTGGAGTATTG	ctg14210	12	
4213	I		A	CAAGGGGATGTCAAAGATACCTTTTGGTTCTTTAGTTTTGTGGATCA			
4213	P	C	A	ATGACGTGGCAGACCAACACTAACTGACTTTCAGA			
4213	P	T	A	CGCGCCGAGGTAACACTAACTGACTTTCAGATT			
4213	T	C	A	TTAGAATCTGAAAGTCAGTTAGTGTTGGATCCACAAAACTAAAGAACCAAAAGGTATCTTTGACATCCCCTTGAC			
4213	T	T	A	TTAGAATCTGAAAGTCAGTTAGTGTTAGATCCACAAAACTAAAGAACCAAAAGGTATCTTTGACATCCCCTTGAC			
				ACGGACAGGCTCTGTAGTATCTCTAGCCTTCAGTAAGTGTTTCCGTAAAACAGTCAAGGGGATGTCAAAGATACCTTTTGGTTCTTTAGTTTTGTGGATC[CT]AACA			
4213	IS	[CT]		CTAACTGACTTTCAGATTCTAAAACCCACCATGTGGATTCCACAAACTCAGAAACATTACTCCCCACAGGACTTCATCCAGCAAGCAATTTCCTAT	ctg14210	12	
4216	I		S	GTGGGAAGGAAAACTCAAGAAAATGTCTGAATGGTTAATT			
4216	P	C	S	ATGACGTGGCAGACGAGTAAATCTTTTTGTGAAAGAGG			
4216	P	T	S	CGCGCCGAGGAAGTAAATCTTTTTGTGAAAGAGG			
4216	T	C	S	CTTACCTCTTTCACAAAAAGATTTACTCATTAACCATTCAGACATTTTCTTGAGTTTTCCTTCCCACAT			
4216	T	T	S	CTTACCTCTTTCACAAAAAGATTTACTTATTAACCATTCAGACATTTTCTTGAGTTTTCCTTCCCACAT			
				TCACTGCCTGCATCCCACCAATGTCCTCTTCTTGCCAGAGAGAAGCTTGGGGGAATTTCTCAAAGTCTCCTTCCTTACCTCTTTCACAAAAAGATTTACT[CT]ATTAA			
4216	IS	[CT]		CCATTCAGACATTTTCTTGAGTTTTCCTTCCCACATTTATTACTGATTGGAGGCTTTAAGACAAAAAGTTTCAAAAGCTAAGTTTCTGAAACAAG	ctg14210	12	
4217	I		A	CCCACATTTATTACTGATTGGAGGCTTTAAGACAAAAAGTTTCAAAAGCTT			
4217	P	A	A	CGCGCCGAGGAAGTTTCTGAAACAAGGTGG			
4217	P	G	A	ATGACGTGGCAGACGAGTTTCTGAAACAAGGTGG			
4217	T	A	A	ACTGCCACCTTGTTTCAGAAACTTAGCTTTTGAAACTTTTTGTCTTAAAGCCTCCAATCAGTAATAAATGTGGGAA			
4217	T	G	A	ACTGCCACCTTGTTTCAGAAACTCAGCTTTTGAAACTTTTTGTCTTAAAGCCTCCAATCAGTAATAAATGTGGGAA			
				ACAAAAAGATTTACTCATTAACCATTCAGACATTTTCTTGAGTTTTCCTTCCCACATTTATTACTGATTGGAGGCTTTAAGACAAAAAGTTTCAAAAGCT[AG]AGTTTC			
4217	IS	[AG]		TGAAACAAGGTGGCAGTAAACCTAAGTTTTTTTGTTGGTTTGTTTTGTTTTTTCCTACCTGCAGATTTAGAGTCCGAGGCGCTGTCTCCCAGAC			
4220	I		S	CTTCTGTTAGATTGTTGGAAGCTTCACTCAAGATGCCCAA			
4220	P	G	S	ATGACGTGGCAGACCGCAAACACACACACA			
4220	P	A	S	CGCGCCGAGGTGCAAACACACACACA			
4220	T	G	S	TGTGTGTGTGTGTTTGCGTGGGCATCTTGAGTGAAGCTTCCAACAATCTAACAGAAGAA			
4220	T	A	S	TGTGTGTGTGTGTTTGCATGGGCATCTTGAGTGAAGCTTCCAACAATCTAACAGAAGAA			
				TGTGTGTACGTGTATATATGTATGTATCTGTGTGTGTCTGTGTGTTGTGCGTGTGTGTGCCTGCGTGTGTCCGTGTGCTTGTGTGTGTGTGTGTTTGC[GA]TG			
4220	IS	[GA]		GGCATCTTGAGTGAAGCTTCCAACAATCTAACAGAAGAAAAGGAGCCACACTTGTCTGTTCTGCTCTCTTGGGTACTTCCCAGACCAGTGAAATGAAA			
4221	I		A	GGGAGCTTAGTAGGAGTCAAATCCTAGGCCCCA			
4221	P	C	A	ATGACGTGGCAGACCGTCTCAGCTGCTCT			
4221	P	T	A	CGCGCCGAGGTGTCTCAGCTGCTCTG			
4221	T	C	A	ACAGCAGAGCAGCTGAGACGGGGGCCTAGGATTTGACTCCTACTAAGCTCCCCG			
4221	T	T	A	ACAGCAGAGCAGCTGAGACAGGGGCCTAGGATTTGACTCCTACTAAGCTCCCCG			
				TGTGTACATGTGTTCATGTCCAGGGGATGACACTGTGGCATCCAACAGCCGTGGACCAGCAGCCCACGGGGAGCTTAGTAGGAGTCAAATCCTAGGCCCC[CT]G			
4221	IS	[CT]		TCTCAGCTGCTCTGCTGTCTAGCGCATTGTGCAGTGGTAGGTGTCAGTGATCCAAGTGGGGACCCAGTCCCTCAGGCCACACAGCGCATGTCCATTGCC	ctg22fin4	22	
4222	I		A	CCATTGCCTTCATGCCGCAGGAGACTGAGT			
4222	P	G	A	ATGACGTGGCAGACGGGTCATGCATGAGGY			
4222	P	A	A	CGCGCCGAGGAGGTCATGCATGAGGGY			
4222	T	G	A	GTGGCCCTCATGCATGACCCCTCAGTCTCCTGCGGCATGAAGGCAATGGAC			
4222	T	A	A	GTGGCCCTCATGCATGACCTCTCAGTCTCCTGCGGCATGAAGGCAATGGAC			
				AGCGCATTGTGCAGTGGTAGGTGTCAGTGATCCAAGTGGGGACCCAGTCCCTCAGGCCACACAGCGCATGTCCATTGCCTTCATGCCGCAGGAGACTGAG[GA]G			
4222	IS	[GA]		GTCATGCATGAGGGCCACTTCTCTGGGTTGTCCCCACAACACGGGCGGTGTCCCTGGGACACGTGGAAGGGGAGGGGCAGCTCACTGCTGACATCTCCT	ctg22fin4	22	
4226	I		S	GGAGGCTGCCGAGCCCCTCCA			
4226	P	G	S	ATGACGTGGCAGACCTCAGCACTGGGGAGY			

FIGURE 129B

```
4226  P  A  S  CGCGCCGAGGTTCAGCACTGGGGAGY
4226  T  G  S  AGTGCTCCCCAGTGCTGAGGGAGGGGCTCGGCAGCCTCCAC
4226  T  A  S  AGTGCTCCCCAGTGCTGAAGGAGGGGCTCGGCAGCCTCCAC

                ACAGCCCACCCTAAGCTCTCCTCCCTCCCGTGTGCCCTCCCTCTCCCTGCCCTCAGCTCTGCTGTGCTCCTCAGGGAGGAAGAGTGCTCCCCAGTGCTGA[GA]G
4226  IS [GA]   GAGGGGCTCGGCAGCCTCCACACCAGGCACCACTGCCAGATTCCCGTGCCCGACCCCGCGACCCACGGCCAATACATCGTCTCTGTTCAGCCAAGGAGG   ctg22fin4  22
4227  I     A  TGGACTATGTAATTGAATTTAAACTATAATTTTCTTTGGATTTCAAAAAAACTAGCTCAAT
4227  P  A  A  CGCGCCGAGGACCTGTTAAGTGGTATCTAGA
4227  P  G  A  ATGACGTGGCAGACGCCTGTTAAGTGGTATCTAG
4227  T  A  A  ATTTTCTAGATACCACTTAACAGGTTTGAGCTAGTTTTTTTGAAATCCAAAGAAAATTATAGTTTAAATTCAATTACATAGTCCAGT
4227  T  G  A  ATTTTCTAGATACCACTTAACAGGCTTGAGCTAGTTTTTTTGAAATCCAAAGAAAATTATAGTTTAAATTCAATTACATAGTCCAGT

                AAACCTGCATTGATTTTGATTATAATTATAGTTGGACCACTGGACTATGTAATTGAATTTAAACTATAATTTTCTTTGGATTTCAAAAAAACTAGCTCAA[AG]CCTGTT
4227  IS [AG]   AAGTGGTATCTAGAAAATGCTTTTTTTTTTTTTTTTTTTATCACCAGCTCTGTCCTCATCTGTCTGTTCTGTTAAAAGTGGTGCATTATTTTGGC
4147  I     S  TCCACTAGCATAGCCATCCCTTTGTTCCCCTTTA
4147  P  A  S  CGCGCCGAGGTCATCCACCAGCCAGY
4147  P  G  S  ATGACGTGGCAGACCCATCCACCAGCCAY
4147  T  A  S  AGTTCTGGCTGGTGGATGAAAAGGGGAACAAAGGGATGGCTATGCTAGTGGATC
4147  T  G  S  AGTTCTGGCTGGTGGATGGAAAGGGGAACAAAGGGATGGCTATGCTAGTGGATC

                TCCCTCCCATGGCCCCCGTCTCACCCGGGAGAACTGGTGGGCAGAGGGTGGGCTGGGGACAGGAGTGTTCGGGGATAAGAGAAGTTCTGGCTGGTGGATG[AG]
4147  IS [AG]   AAAGGGGAACAAAGGGATGGCTATGCTAGTGGATCCCTAAAATCTGGGCAGGACGTCAGGGAAGGAGGAGGGACAGGCCCTGCTTGGGGGTCTATTTCTG   ctg17326  12
4150  I     S  CGTGTGATCGCTTTGCGAACATTCACAGAGGTAAACT
4150  P  C  S  ATGACGTGGCAGACGATGAGGATCTATGCACATCY
4150  P  T  S  CGCGCCGAGGAATGAGGATCTATGCACATCY
4150  T  C  S  CTGGGATGTGCATAGATCCTCATCGTTTACCTCTGTGAATGTTCGCAAAGCGATCACACGGT
4150  T  T  S  CTGGGATGTGCATAGATCCTCATTGTTTACCTCTGTGAATGTTCGCAAAGCGATCACACGGT

                GTGGTGCTCACGGGAACATCACTCGCCCCCACCGCCAGCTGACTTTTTCAGAAAGCTTTTCATGGTGTAACATATTCCTGGGATGTGCATAGATCCTCAT[CT]GTT
4150  IS [CT]   TACCTCTGTGAATGTTCGCAAAGCGATCACACGGTGAACCCAGCACCCAGATGGAGAAACACCGCCCCAATCTTTAGGGCTGCTTGTTGGAAGAAGG   ctg17326  12
4158  I     A  GCCACAATAGAGATTCTGCCTTCAAAGGTTGGCTC
4158  P  T  A  CGCGCCGAGGTGCCACCTGAAGCAY
4158  P  G  A  ATGACGTGGCAGACGGCCACCTGAAGCAY
4158  T  T  A  TGGCTGCTTCAGGTGGCAAGCCAACCTTTGAAGGCAGAATCTCTATTGTGGCTG
4158  T  G  A  TGGCTGCTTCAGGTGGCCAGCCAACCTTTGAAGGCAGAATCTCTATTGTGGCTG

                ACTCTCCCCAGCACACGGAAGGGGAAGGGGGTGGAGGTTGCTGCTATGAGAGAGAAAAAAAAAACAGCCACAATAGAGATTCTGCCTTCAAAGGTTGGCT[TG]GC
4158  IS [TG]   CACCTGAAGCAGCCACTGCCCAGGGGGTGCAAAGAAGAGACAGCAGCGCCCAGCTTGGAGGTGCTAACTCCAGAGGCCAGCATCAGCAACTGGGCACA   ctg17326  12
4160  I     A  GGGAACACCAGTGAGAAAAGGCCTGCATGGA
4160  P  C  A  ATGACGTGGCAGACCGGCCCTGCAGCY
4160  P  T  A  CGCGCCGAGGTGGCCCTGCAGCY
4160  T  C  A  TGGGGCTGCAGGGCCGCCATGCAGGCCTTTTCTCACTGGTGTTCCCCG
4160  T  T  A  TGGGGCTGCAGGGCCACCATGCAGGCCTTTTCTCACTGGTGTTCCCCG

                GGGGCCCTTTGATGGGGCGTGTCATCACCAGGGTGGCACTGATGGGGCCCGTTTGCTATGGACAGAACCGGGGAACACCAGTGAGAAAAGGCCTGCATGG[CT]
4160  IS [CT]   GGCCCTGCAGCCCCACCTGGGCGCTCCCTTGCCTCCGTCAGTCAAACTGGCACCCCCTCGGTGCCTCAACTGTGCCATGCTCTTTCCCTGGCTTTGCCCA   ctg13206  14
4161  I     S  CGCATGCGACCCACACTCCCCTAGAT
4161  P  C  S  ATGACGTGGCAGACGCTGAATCTGTCTTGGGY
4161  P  G  S  CGCGCCGAGGCCTGAATCTGTCTTGGGY
4161  T  C  S  AATGCCCAAGACAGATTCAGCTCTAGGGGAGTGTGGGTCGCATGCGGC
4161  T  G  S  AATGCCCAAGACAGATTCAGGTCTAGGGGAGTGTGGGTCGCATGCGGC

                CTGTGCATTCCCAGGGCTTGGAAGACAGAGAGCCAGAATGGTAACAGTGAGTATCCTGTGGAGGTGAAAAGTCAAATATAAATGCCCAAGACAGATTCAG[CG]TC
4161  IS [CG]   TAGGGGAGTGTGGGTCGCATGCGGCCCGTGACGTGTAACGGTGATATCACCTTGGGCTTGTATGGGGTGGGGTGTGCTCCAGGGAGGTCATGGTGGTT   ctg13206  14
4166  I     A  CATGCACACACACACACACACATACACACACAT
4166  P  C  A  CGCGCCGAGGCAGTCGGGGAACCGY
4166  P  G  A  ATGACGTGGCAGACGAGTCGGGGAACCGY
4166  T  C  A  ATGACGGTTCCCCGACTGTGTGTGTGTATGTGTGTGTGTGTGTGTGTGCATGCG
4166  T  G  A  ATGACGGTTCCCCGACTCTGTGTGTGTATGTGTGTGTGTGTGTGTGCATGCG

                CTTGAACAGGAAGGCGTTTTGTGGCAGAGTCTAAACGAAACAGAAGTTGCTTTGTGTGTGCGCACGCATGCACACACACACACACACACATACACACACA[CG]AGT
4166  IS [CG]   CGGGGAACCGTCATTTTCCTACGCGCCCTCTGACATCAGCCACCTTCTCTGTAGCTAGTTTCTCTGCACACAACTTAATCCCTGGCAATGAAAAATG
4171  I     A  CCAGGAACAGCAGTCTCTGCCCACCTGT
4171  P  G  A  ATGACGTGGCAGACGCCCCGCCCACY
4171  P  A  A  CGCGCCGAGGACCCCGCCCACY
4171  T  G  A  TCTGGTGGGCGGGGCCAGGTGCGCAGAGACTGCTGTTCCTGGGG
4171  T  A  A  TCTGGTGGGCGGGGTCAGGTGGGCAGAGACTGCTGTTCCTGGGG

                GTGCTGGACAGAGGCCAGTTCCTGGAAAAGCCTTTCCCACGCCATCCCACTGCAGACATCCCTCCTTACCTCCCCAGGAACAGCAGTCTCTGCCCACCTG[GA]CC
4171  IS [GA]   CCGCCCACCAGACTGAGGCTCACTTCACCTCTGACCTGAGCGGCCCCCAGCTCACCAGGCCACAGGCCCAAGCAGTGCTCCCTGATGCGGCGTTTATA   ctg12325  11
4175  I     A  CCACTGTTAGTCTCACCTTTTTTAACCTCTTATCTCTCCCCAT
4175  P  A  A  CGCGCCGAGGAGATCCCTGAAGCCAGY
4175  P  G  A  ATGACGTGGCAGACGGATCCCTGAAGCCAY
4175  T  A  A  GTACCTGGCTTCAGGGATCTTGGGGAGAGATAAGAGGTTAAAAAAGGTGAGACTAACAGTGGGA
4175  T  G  A  GTACCTGGCTTCAGGGATCCTGGGGAGAGATAAGAGGTTAAAAAAGGTGAGACTAACAGTGGGA

                AGGTCTTCCCTACCAGGTGCCCTTGCAGGGGAGTGCCACAGCAGTCAGTCCAGGGATCCCACTGTTAGTCTCACCTTTTTTAACCTCTTATCTCTCCCCA[AG]GAT
4175  IS [AG]   CCCTGAAGCCAGGTACGAGCAAGATGAGAGTGGGTTATCTCTGGAGTGACAGAGGCTGGTCTGTTTTCCAGGCTGGTAGGGACTGTTCCTAAAGGGA   ctg12325  11
4179  I     A  CCTGCTCCCTTTCCTCTGCTTCCAGACTCAA
4179  P  C  A  ATGACGTGGCAGACCGGGATCCTCTGCTCY
4179  P  T  A  CGCGCCGAGGTGGGATCCTCTGCTCY
4179  T  C  A  TGATGAGCAGAGGATCCCGTGAGTCTGGAAGCAGAGGAAAGGGAGCAGGCA
4179  T  T  A  TGATGAGCAGAGGATCCCATGAGTCTGGAAGCAGAGGAAAGGGAGCAGGCA

                ACAGCCCTAGATAGGGGGGTTAGGGATGTGAGATGGTCCCAGGGGCCTGCTCCTGAGCCACGCCAAGCTGCCTGCTCCCTTTCCTCTGCTTCCAGACTCA[CT]G
4179  IS [CT]   GGATCCTCTGCTCATCAGAACAGGAGTGTGGGAGACCCTGAGACACTGCCCCAGGATCTGAACAGGTGGCAAAGGCTTAACAGGCTAGCGTGCACTGTA   ctg15064  7
4182  I     A  CCCAGACAGCCTTGACTCTGGTAAGGGTCACC
4182  P  A  A  CGCGCCGAGGACCAAAGTTAGGGACTTTG
4182  P  T  A  ATGACGTGGCAGACTCCAAAGTTAGGGACTTTG
4182  T  A  A  AGTGCAAAGTCCCTAACTTTGGTGTGACCCTTACCAGAGTCAAGGCTGTCTGGGCC
4182  T  T  A  AGTGCAAAGTCCCTAACTTTGGAGTGACCCTTACCAGAGTCAAGGCTGTCTGGGCC

                CTCTGCCTCCCAAAGCATCTACCTCT'AGCCCCTCGGAGAGATGGCGATGGATGTCACAAGGAGCCAGGCCCAGACAGCCTTGACTCTGGTAAGGGTCAC[AT]CC
4182  IS [AT]   AAAGTTAGGGACTTTGCACTGGGAGAGCAGCACCCAGGGCAGGGCCTTGGTTTTGCAGATTACCAAAACTAAGGCTGGGGGCAGGGAAGGCGAGCAGG   ctg15064  7
4183  I     S  CACCAGGCTGCCTTGGCCACAGAAA
4183  P  G  S  ATGACGTGGCAGACCACTTACTGAAATGCCCTT
4183  P  A  S  CGCGCCGAGGTACTTACTGAAATGCCCTTG
4183  T  G  S  TGTCCAAGGGCATTTCAGTAAGTGTTCTGTGGCCAAGGCAGCCTGGTGAC
4183  T  A  S  TGTCCAAGGGCATTTCAGTAAGTATTCTGTGGCCAAGGCAGCCTGGTGAC
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FIGURE 129B

				GGGATCCCCTTGCCTCCAAGAGCAAGTCCAGACCTGCACCAGCGCGGGCCAGGCCCCCTTAGGACCCCCTCCCTGTCCAAGGGCATTTCAGTAAGT[GA]TTCTG			
4183	IS	[GA]		TGGCCAAGGCAGCCTGGTGACTTTCTGCCCGCACAAGGCTGAGGAATGGAAGATGGGTAGGCTCTGCACACCCCCTCCTGCTGGGCAGCAATCCC	ctg15064	7	
4186	I		S	CAGTTACAGGCCTCTGCTCCTACTGTCCCTTACA			
4186	P	G	S	ATGACGTGGCAGACCGCACACAACACCAC			
4186	P	A	S	CGCGCCGAGGTGCACACAACACCAC			
4186	T	G	S	CCCTGTGGTGTTGTGTGCGGTAAGGGACAGTAGGAGCAGAGGCCTGTAACTGGC			
4186	T	A	S	CCCTGTGGTGTTGTGTGCAGTAAGGGACAGTAGGAGCAGAGGCCTGTAACTGGC			
				TTCATTAAACGTAACTGACCCTACAGCCTGGGTGGGCTGGCACAGTGACGGGGGAGGGGATAGTGGCCAGGGGGACCCCAGCCCCTGTGGTGTTGTGTGC[GA]			
4186	IS	[GA]		GTAAGGGACAGTAGGAGCAGAGGCCTGTAACTGGCCCATCCCCTAGGTGTGCCTGCAGCCCAGGGGTTCTGCCAGAGCTTGACAGCGGTCTGTTCACAGGGT			
4199	I		S	GTACCTGGTTCCCCCTTTTCTCCCTTGGTGA			
4199	P	G	S	ATGACGTGGCAGACCCATCACGCCCATCT			
4199	P	A	S	CGCGCCGAGGTCATCACGCCCATCTT			
4199	T	G	S	GGCAAAGATGGGCGTGATGGCACCAAGGGAGAAAAGGGGGAACCAGGTACGT			
4199	T	A	S	GGCAAAGATGGGCGTGATGACACCAAGGGAGAAAAGGGGGAACCAGGTACGT			
				GAAACTGTGACCTGTGAGGATGCCCAAAAGACCTGCCCTGCAGTGATTGCCTGTAGCTCTCCAGGCATCAACGGCTTCCCAGGCAAAGATGGGCGTGATG[GA]C			
4199	IS	[GA]		ACCAAGGGAGAAAAGGGGGAACCAGGTACGTGTTGGGCTGTTCTGTCTCTGCAATTCTTTACCTTCCAGAGGAAACTGCCTGGGGATATGAGGAGACTG	ctg15131	10	
4304	I		A	GCATGGACCACCTTTATTTTATACAAAATTAAAAACAAGTTTTTACAAAAGATCT			
4304	P	A	A	CGCGCCGAGGAAGTCACTTTTTCGGTGG			
4304	P	G	A	ATGACGTGGCAGACGAGTCACTTTTTCGGTGG			
4304	T	A	A	CTCTCCACCGAAAAAGTGACTTGATCTTTTGTAAAAACTTGTTTTTAATTTTGTATAAAATAAAGGTGGTCCATGCCC			
4304	T	G	A	CTCTCCACCGAAAAAGTGACTCGATCTTTTGTAAAAACTTGTTTTTAATTTTGTATAAAATAAAGGTGGTCCATGCCC			
				CCCCCCACCCCAGCTGGTCTGCTTGGATTTCCTACAGCCCCCGTGGGCATGGACCACCTTTATTTTATACAAAATTAAAAACAAGTTTTTACAAAAGATC[AG]AGTC			
4304	IS	[AG]		ACTTTTTCGGTGGAGACACAGAGGGGCCAGCCAAGTGCCCCCAACGCGGACTGTCCTGAGAGGCTCCTGACCCCTTGGAGTGAACGATCTGCTCA	ctg16263	1	
4316	I		S	GGAGAATTAGAGGGACCAGGGAGGGACAGGA			
4316	P	A	S	CGCGCCGAGGTGATCACACGGTATTGGAY			
4316	P	G	S	ATGACGTGGCAGACCGATCACACGGTATTGGY			
4316	T	A	S	TGTGTCCAATACCGTGTGATCACCTGTCCCTCCCTGGTCCCTCTAATTCTCCCT			
4316	T	G	S	TGTGTCCAATACCGTGTGATCGCCTGTCCCTCCCTGGTCCCTCTAATTCTCCCT			
				CCCTAAGGCTGTCCCTGATCTCTCTTGCTATTCCCAAGCCGAGACTGCTCCCTTACAAATTCTGGCTGCTCCCTTTCCCTGTGTCCAATACCGTGTGATC[AG]CCT			
4316	IS	[AG]		GTCCCTCCCTGGTCCCTCTAATTCTCCCTTGTGACTATTCTGTAATCCCACTCCCGTTCCTGAGCCCCGGGATTGTTTTCTTGGTTCCCCAGAATGT			
4444	I		A	GTGTCTGGAACACTAGAGAAGGCTGGTCAGTACCA			
4444	P	C	A	ATGACGTGGCAGACCACTCTGGAGCATTTCTC			
4444	P	T	A	CGCGCCGAGGTACTCTGGAGCATTTCTCA			
4444	T	C	A	CTGATGAGAAATGCTCCAGAGTGGGTACTGACCAGCCTTCTCTAGTGTTCCAGACACCT			
4444	T	T	A	CTGATGAGAAATGCTCCAGAGTAGGTACTGACCAGCCTTCTCTAGTGTTCCAGACACCT			
				GTCCTTGCACCCAGATGAGACTAAAAACATGCTGGAAATGATCTTTACCCCAAGAAACTCAGACAGGTGTCTGGAACACTAGAGAAGGCTGGTCAGTACC[CT]ACT			
4444	IS	[CT]		CTGGAGCATTTCTCATCAGTAGTTCACATACAAATCATCCATCCTTGCCAATAGTGTCATCCTCACAGTGAACACTCAGTGGCCCATGGCATTTTAT	ctg2712	15	CYP19
4192	I		S	TTAAAATTTACCATTACTTAAAAAGAACTTTCTATCCATAGTACTAACCAAAAAAAAATGT			
4192	P	T	S	CGCGCCGAGGATAAGATGGAACACAATGATAAAG			
4192	P	C	S	ATGACGTGGCAGACGTAAGATGGAACACAATGATAAAG			
4192	T	T	S	CATGCTTTATCATTGTGTTCCATCTTATCATTTTTTTTTGGTTAGTACTATGGATAGAAAGTTCTTTTTAAGTAATGGTAAATTTTAATT			
4192	T	C	S	CATGCTTTATCATTGTGTTCCATCTTACCATTTTTTTTTGGTTAGTACTATGGATAGAAAGTTCTTTTTAAGTAATGGTAAATTTTAATT			
				CTGAGATGTGGAAGGAAGGAAACAGAATTCATTTTCAAACCAAGGTATGAATTTTGCTTTTTCACCCTTCTCACATGCTTTATCATTGTGTTCCATCTTA[TC]CATTT			
4192	IS	[TC]		TTTTTTGGTTAGTACTATGGATAGAAAGTTCTTTTTAAGTAATGGTAAATTTTAATTAAAAATAAGATACAGCTTGTCTGGTGTTTTCAAAATTT	ctg19030	5	
4236	I		S	GCCAAAGGGACAGGACGGAGAGACTTTAACATCAATTA			
4236	P	G	S	ATGACGTGGCAGACCTTCCTCATGACCTTTCTTC			
4236	P	A	S	CGCGCCGAGGTTTCCTCATGACCTTTCTTC			
4236	T	G	S	AGACGAAGAAAGGTCATGAGGAAGAATTGATGTTAAAGTCTCTCCGTCCTGTCCCTTTGGCCT			
4236	T	A	S	AGACGAAGAAAGGTCATGAGGAAAAATTGATGTTAAAGTCTCTCCGTCCTGTCCCTTTGGCCT			
				GTCAGGAGGGAGAGTCCAGCAGCAGAAAGTCCAGCTACCAAGGGAATGTTGGACTCAGTGGGAGCTAAGGAAGTAAGAGACGAAGAAAGGTCATGAGGAA[GA]A			
4236	IS	[GA]		ATTGATGTTAAAGTCTCTCCGTCCTGTCCCTTTGGCCTTTTTTCTGTACATTCATTACTAGGAGCAGAAGAGCTATCTAGTTTAATACAAGAAGCAGAG	ctg13446	1	
4238	I		A	GGATTTGTCACAGCATCACACTCAACCACTGAGGATTTC			
4238	P	G	A	ATGACGTGGCAGACGAAAGAGCACCATGAATTTTAC			
4238	P	T	A	CGCGCCGAGGTAAAGAGCACCATGAATTTTAC			
4238	T	G	A	TTCTGTAAAATTCATGGTGCTCTTTCAAATCCTCAGTGGTTGAGTGTGATGCTGTGACAAATCCAG			
4238	T	T	A	TTCTGTAAAATTCATGGTGCTCTTTAAAATCCTCAGTGGTTGAGTGTGATGCTGTGACAAATCCAG			
				TACAGGTTGTGTTCCATGGGAAGCTTCCAGGGTTTTGGAAACATTCCACGAACCCATTGGCTGGATTTGTCACAGCATCACACTCAACCACTGAGGATTT[GT]AAA			
4238	IS	[GT]		GAGCACCATGAATTTTACAGAAGAATGATCTTTTCACTTCCTATTGAGCTGGGTGCCTAACAGAGTGAGGAAGCTGCCTTCAAAGGGTAGATCCCAA	ctg13446	1	
4241	I		S	TCAGTGGACTCAAGTGTGAGCAAAGTAAGTCTGGTTCTA			
4241	P	A	S	CGCGCCGAGGTGCCTCTTTCTTCACTTG			
4241	P	G	S	ATGACGTGGCAGACCGCCTCTTTCTTCACTTG			
4241	T	A	S	ATCTCAAGTGAAGAAAGAGGCAAGAACCAGACTTACTTTGCTCACACTTGAGTCCACTGAAG			
4241	T	G	S	ATCTCAAGTGAAGAAAGAGGCGAGAACCAGACTTACTTTGCTCACACTTGAGTCCACTGAAG			
				TATGACACCATCTGCACCAGGGAAGGGAAGGCATGCAGACCTGACTCTAATGCCAGCTAGGACGTGAGATGGTGCTACCATCTCAAGTGAAGAAAGAGGC[AG]AG			
4241	IS	[AG]		AACCAGACTTACTTTGCTCACACTTGAGTCCACTGAAGCCAGGGTCACACTTGCAAGTGTAATTATTGATGGTCTCTACACATTCACCGTGGCCACTG	ctg13446	1	
4294	I		A	CCAGCGCTAAAATGAAGAGTATGTGTTTTGCCAGTGAT			
4294	P	A	A	CGCGCCGAGGATTCTTTATCTCTCAAATGAATTTCT			
4294	P	G	A	ATGACGTGGCAGACGTTCTTTATCTCTCAAATGAATTTCT			
4294	T	A	A	GTGCAGAAATTCATTTGAGAGATAAAGAATTCACTGGCAAAACACATACTCTTCATTTTAGCGCTGGGC			
4294	T	G	A	GTGCAGAAATTCATTTGAGAGATAAAGAACTCACTGGCAAAACACATACTCTTCATTTTAGCGCTGGGC			
				TTAATATGTATGCAAATGAAAATAATAATTCAGAATTCATTCACTTTAACTGTCTTAAATTGCCCAGCGCTAAAATGAAGAGTATGTGTTTTGCCAGTGA[AG]TTCTTT			
4294	IS	[AG]		ATCTCTCAAATGAATTTCTGCACAGCTGCCTAAGAAATCTAACAGTGGCAGGTAATGGCCCCTGCAGACTGTAATGCTAAGTGGTAACTAAGTC	ctg14391	11	
4490	I		S	CCAGAGCTCCCAGAGTTCCAGCTTCCAGA			
4490	P	A	S	CGCGCCGAGGTACTTCCAGGTCCAGAG			
4490	P	G	S	ATGACGTGGCAGACCACTTCCAGGTCCAGA			
4490	T	A	S	GGAGCTCTGGACCTGGAAGTACTGGAAGCTGGAACTCTGGGAGCTCTGGAA			
4490	T	G	S	GGAGCTCTGGACCTGGAAGTGCTGGAAGCTGGAACTCTGGGAGCTCTGGAA			
				TGGGAGCTCTGGACCTGGAAGTACTGGAAACCGAAACCCTGGGAGCTCTGGGACTGGAGGGACTGCAACCTGGAAACCTGGGAGCTCTGGACCTGGAAGT[AG]			
4490	IS	[AG]		CTGGAAGCTGGAACTCTGGGAGCTCTGGAACTGGAAGTACTGGAAACCAAAACCCTGGGAGCCCTAGACCTGGTAGTACCGGAACCTGGAATCCTGGCAG			FGA
4498	I		A	GAAGACGCTGTACCTGGCAGACACTTTCCCA			
4498	P	C	A	ATGACGTGGCAGACCACCAACTTTAGGGACTC			
4498	P	T	A	CGCGCCGAGGTACCAACTTTAGGGACTCT			
4498	T	C	A	CTGCAGAGTCCCTAAAGTTGGTAGGGAAAGTGTCTGCCAGGTACAGCGTCTTCAT			
4498	T	T	A	CTGCAGAGTCCCTAAAGTTGGTAGGGAAAGTGTCTGCCAGGTACAGCGTCTTCAT			
				AGCTGAGCCTCGGCAATGCCCTTTTCACCGACCTGGTGGTAGACCTGCAGGACACCTTCGTAAGTGCCATGAAGACGCTGTACCTGGCAGACACTTTCCC[CT]AC			
4498	IS	[CT]		CAACTTTAGGGACTCTGCAGGGGCCATGAAGCAGATCAATGATTATGTGGCAAAGCAAACGAAGGGCAAGATTGTGGACTTGCTTAAGAACCTCGATA	ctg13206	14	SERPINA5

FIGURE 129B

4499	I		A	AGTTCCTTTCTAGAAAAACACTGGGTGATTCTAGGGGAACTTCA			
4499	P	T	A	CGCGCCGAGGTGATCAGAAACAGCCAATT			
4499	P	C	A	ATGACGTGGCAGACCGATCAGAAACAGCCAAT			
4499	T	T	A	TCTGAATTGGCTGTTTCTGATCAGAAGTTCCCCTAGAATCACCCAGTGTTTTTCTAGAAAGGAACTTG			
4499	T	C	A	TCTGAATTGGCTGTTTCTGATCGGAAGTTCCCCTAGAATCACCCAGTGTTTTTCTAGAAAGGAACTTG			
4499	IS	[TC]		AAAGTCACCATAGGTTGAGGGTACATCTGAGAAGCCAGCACTTGGAGTTCAGGCTCAAGTTCCTTTCTAGAAAAACACTGGGTGATTCTAGGGGAACTTC[TC]GAT CAGAAACAGCCAATTCAGAGTGAGAGAAGAAAACGTGACCATGCAGTTCCTGTGGTTACCAGCCTTGCCCCTCTCTTGCCTTCTGGGAGTTATAAAA	ctg53	14	
4034	I		S	CCCATGAGCAAATCTAAACAGCATTGGATTGAGTAGTATGCCTAAT			
4034	P	C	S	CGCGCCGAGGGTTAGAATTAGGGCTAAACCATGT			
4034	P	T	S	CGCGCCGAGGATTAGAATTAGGGCTAAACCATGT			
4034	T	C	S	GATCACATGGTTTAGCCCTAATTCTAACTTAGGCATACTACTCAATCCAATGCTGTTTAGATTTGCTCATGGGAT			
4034	T	T	S	GATCACATGGTTTAGCCCTAATTCTAATTTAGGCATACTACTCAATCCAATGCTGTTTAGATTTGCTCATGGGAT			
4034	IS	[CT]		TATCTGTACTGATTTTGCTATGGTCTAGCTAGTTATGGTATTTCAATGATCACATGGTTTAGCCCTAATTCTAA[CT]TTAGGCATACTACTCAATCCAATGCTGTTTA GATTTGCTCATGGGATTTGTTATAAAGTTCATGTCTCTCAGTGTTCTCACTATCCCATTCTTGCC	ctg15944	11	
4058	I		S	TGCAGTGTTCCGCCTCCAGTTCTCCAGC			
4058	P	A	S	CGCGCCGAGGTTCATCCTTCTAAGGCTGGCY			
4058	P	C	S	CGCGCCGAGGGTCATCCTTCTAAGGCTGGY			
4058	T	A	S	CTGAGCCAGCCTTAGAAGGATGAACTGGAGAACTGGAGGCGGAACACTGCAGA			
4058	T	C	S	CTGAGCCAGCCTTAGAAGGATGACCTGGAGAACTGGAGGCGGAACACTGCAGA			
4058	IS	[AC]		CTGGTGAGAAAAAATAGGAGCTGGCATCTGAGCCAGCCTTAGAAGGATGA[AC]CTGGAGAACTGGAGGCGGAACACTGCAGACTCTGAAACAGGCCTGGGAAG	ctg22fin4	22	
4060	I		A	CTCTGAGGCACAGACCACCAAGGGACTT			
4060	P	C	A	CGCGCCGAGGCAGCACCTAAGCTGGTCY			
4060	P	G	A	CGCGCCGAGGGAGCACCTAAGCTGGTCTY			
4060	T	C	A	GAGGAGACCAGCTTAGGTGCTGAGTCCCTTGGTGGTCTGTGCCTCAGAGCC			
4060	T	G	A	GAGGAGACCAGCTTAGGTGCTCAGTCCCTTGGTGGTCTGTGCCTCAGAGCC			
4060	IS	[CG]		GGGGTGGAAAAGTGTCCCTGGGGCTCTGAGGCACAGACCACCAAGGGACT[CG]AGCACCTAAGCTGGTCTCCTCCCACCCCTTGCCCCCTCCCACCCCCTTGC			
4075	I		A	TGGGAACTTAGGTGGTTTGCATGTTTAAAGGAATAAGACTGAGAA			
4075	P	C	A	CGCGCCGAGGCTGCCAATTAGATGGGTTTTAG			
4075	P	T	A	CGCGCCGAGGTTGCCAATTAGATGGGTTTTAGC			
4075	T	C	A	ATGAGCTAAAACCCATCTAATTGGCAGTCTCAGTCTTATTCCTTTAAACATGCAAACCACCTAAGTTCCCAAC			
4075	T	T	A	ATGAGCTAAAACCCATCTAATTGGCAATCTCAGTCTTATTCCTTTAAACATGCAAACCACCTAAGTTCCCAAC			
4075	IS	[CT]		GTTTGTTGGGAACTTAGGTGGTTTGCATGTTTAAAGGAATAAGACTGAGA[CT]TGCCAATTAGATGGGTTTTAGCTCATTTGAATATTTAATGTGGAGGCTGT	MULTIPLE	MULTIPLE	
4080	I		S	TGGTGGGAGGTCTTTGGGGCCCAAGT			
4080	P	T	S	CGCGCCGAGGATCCCAAGTCCACCTCAG			
4080	P	G	S	CGCGCCGAGGCTCCCAAGTCCACCTCA			
4080	T	T	S	GCACCTGAGGTGGACTTGGGATCTTGGGCCCCAAAGACCTCCCACCAGC			
4080	T	G	S	GCACCTGAGGTGGACTTGGGAGCTTGGGCCCCAAAGACCTCCCACCAGC			
4080	IS	[TG]		GGGGTTCATGACACCAGCAGGGGTTTCTAGCACCTGAGGTGGACTTGGGA[TG]CTTGGGCCCCAAAGACCTCCCACCAGCAGCTGTGCGCCCCCTTCCGAGCC	MULTIPLE	22	
4088	I		S	TGTTGCTTGTCTGTGGGAATTGGGAATTTCACACCA			
4088	P	A	S	CGCGCCGAGGTAGCTCTGAATTTCTAGGAAGC			
4088	P	G	S	CGCGCCGAGGCAGCTCTGAATTTCTAGGAAGC			
4088	T	A	S	TCGGGCTTCCTAGAAATTCAGAGCTAGGTGTGAAATTCCCAATTCCCACAGACAAGCAACATC			
4088	T	G	S	TCGGGCTTCCTAGAAATTCAGAGCTGGGTGTGAAATTCCCAATTCCCACAGACAAGCAACATC			
4088	IS	[AG]		TTCTCTATTTCTATTTCTCTTTTGTTCGGGCTTCCTAGAAATTCAGAGCT[AG]GGTGTGAAATTCCCAATTCCCACAGACAAGCAACATCCCCAGCAGTAATA	MULTIPLE	MULTIPLE	
4096	I		A	CCTCCCATGGCAGAGGTGGCTGCTTTT			
4096	P	C	A	CGCGCCGAGGCAGTGTAGTGAGGAACTGC			
4096	P	G	A	CGCGCCGAGGGAGTGTAGTGAGGAACTGCT			
4098	T	C	A	ACTCAGCAGTTCCTCACTACACTCAAAGCAGCCACCTCTGCCATGGGAGGCT			
4098	T	G	A	ACTCAGCAGTTCCTCACTACACTCAAAGCAGCCACCTCTGCCATGGGAGGCT			
4098	IS	[CG]		TCTCGCAGGCTTCCTCTACTCCAGCCTCCCATGGCAGAGGTGGCTGCTTT[CG]AGTGTAGTGAGGAACTGCTGAGTGGCCCGTGGGGCGTGACACCCCAGCTG	ctg22fin4	22	
4101	I		A	GAACAACAAAGTAGAAAGGGTAAAAGATTGCCTCGAAGATCACCA			
4101	P	C	A	CGCGCCGAGGCAGCACAGAGCAGGGAY			
4101	P	T	A	CGCGCCGAGGTAGCACAGAGCAGGGATTY			
4101	T	C	A	ATCAAATCCCTGCTCTGTGCTGGGTGATCTTCGAGGCAATCTTTTACCCTTTCTACTTTGTTGTTCTC			
4101	T	T	A	ATCAAATCCCTGCTCTGTGCTAGGTGATCTTCGAGGCAATCTTTTACCCTTTCTACTTTGTTGTTCTC			
4101	IS	[CT]		CTATGAGAACAACAAAGTAGAAAGGGTAAAAGATTGCCTCGAAGATCACC[CT]AGCACAGAGCAGGGATTTGATTTCAGGTGTGTCTTGTTCCAAACTTACTA	ctg22fin4	22	
4117	I		S	GGTCCCCACTGGAAATGCCAGCCCA			
4117	P	A	S	CGCGCCGAGGTATCCTCCAGGGTAAAATGGA			
4117	P	G	S	CGCGCCGAGGCATCCTCCAGGGTAAAATGG			
4117	T	A	S	TCCTTCCATTTTACCCTGGAGGATAGGGCTGGCATTTCCAGTGGGGACCAG			
4117	T	G	S	TCCTTCCATTTTACCCTGGAGGATGGGGCTGGCATTTCCAGTGGGGACCAG			
4117	IS	[AG]		GAGACCAGGTTGAGGGGTGCAGGAGATCCTTCCATTTTACCCTGGAGGAT[AG]GGGCTGGCATTTCCAGTGGGGACCAGCCAGGCCTCACTGGCCAGGCCCAT	ctg22fin4	22	
4119	I		A	CCAATTATACTATCCCAGCTCCCATCCTAAAATCCCCTTCTAAAATC			
4119	P	INS	A	CGCGCCGAGGATAAATAGAAGGCAAAAGATCATCAGT			
4119	P	DEL	A	CGCGCCGAGGAGAAGGCAAAAGATCATCAGTC			
4119	T	INS	A	TGCTCAAATGACTGATGATCTTTTGCCTTCTATTTATATTTTAGAAGGGGATTTTAGGATGGGAGCTGGGATAGTATAATTGGCT			
4119	T	DEL	A	TGCTCAAATGACTGATGATCTTTTGCCTTCTATTTTAGAAGGGGATTTTAGGATGGGAGCTGGGATAGTATAATTGGCT			
4119	IS	[-TAAATA]		TAGCCAATTATACTATCCCAGCTCCCATCCTAAAATCCCCTTCTAAAATA[-TAAATA]GAAGGCAAAAGATCATCAGTCATTTGAGCAAAATTTCAGCATGACAGCAT	ctg22fin4	22	
4129	I		A	GCGCATTTCACCCTCTTTTATTTTCCCACAAATGCAGTCA			
4129	P	T	A	CGCGCCGAGGTTCCTTTCAAACAACTCAATGACY			
4129	P	C	A	CGCGCCGAGGCTCCTTTCAAACAACTCAATGACY			
4129	T	T	A	ATTTGTCATTGAGTTGTTTGAAAGGAAGACTGCATTTGTGGGAAAATAAAAAGAGGGTGAAATGCGCAT			
4129	T	C	A	ATTTGTCATTGAGTTGTTTGAAAGGAGGACTGCATTTGTGGGAAAATAAAAAGAGGGTGAAATGCGCAT			
4129	IS	[TC]		AATCTATTATGCGCATTTCACCCTCTTTTTATTTTCCCACAAATGCAGTC[TC]TCCTTTCAAACAACTCAATGACAAATGTTTTCAGCAATCATTACTAACCT	ctg22fin7	22	
4155	I		S	CCCCGTCCACAGTTTACAGACGAATTCGCAT			
4155	P	C	S	ATGACGTGGCAGACGGACTCCTGTCTCCCY			
4155	P	G	S	CGCGCCGAGGCGACTCCTGTCTCCCY			
4155	T	C	S	GTATGGGAGACAGGAGTCCTGCGAATTCGTCTGTAAACTGTGGACGGGGGG			
4155	T	G	S	GTATGGGAGACAGGAGTCGTGCGAATTCGTCTGTAAACTGTGGACGGGGGG			
4155	IS	[CG]		TCAGATAAGAGCTTGTGGACCTGTGCTCAATTCTGGTTCTCCTTCCTTCTTTCAACTGTTGTCTGTGAAAGGAGGGATGCAGGTATGGGAGACAGGAGTC[CG]TG CGAATTCGTCTGTAAACTGTGGACGGGGGGTGGGTGGGGGGGGTAACGTGGGCACCTTTGTGCACAAGTGCATGAATAGGAGGGGTGAGCAACTGTG			
4156	I		A	TGGGAGACAGGAGTCCTGCGAATTCGTCTT			
4156	P	G	A	ATGACGTGGCAGACGTAAACTGTGGACGGGY			
4156	P	A	A	CGCGCCGAGGATAAACTGTGGACGGGGY			
4156	T	G	A	ACCCCCCCGTCCACAGTTTACAGACGAATTCGCAGGACTCCTGTCTCCCATA			
4156	T	A	A	ACCCCCCCGTCCACAGTTTATAGACGAATTCGCAGGACTCCTGTCTCCCATA			

FIGURE 129B

				GTGGACCTGTGCTCAATTCTGGTTCTCCTTCCTTCTTTCAACTGTTGTCTGTGAAAGGAGGGATGCAGGTATGGGAGACAGGAGTCCTGCGAATTCGTCT[GA]TAA				
4156	IS	[GA]		ACTGTGGACGGGGGGGTGGGTGGGGGGGGTAACGTGGGCACCTTTGTGCACAAGTGCATGAATAGGAGGGGTGAGCAACTGTGTGTCCATCACCTTT				
4185	I		A	GAGAAGCGCTTTGGGCTCTCCAGTTCTTCATCT				
4185	P	A	A	CGCGCCGAGGAGGTCTCATTTCCAGCT				
4185	P	G	A	ATGACGTGGCAGACGGGTCTCATTTCCAGC				
4185	T	A	A	TTCAAGCTGGAAATGAGACCTGATGAAGAACTGGAGAGCCCAAAGCGCTTCTCAA				
4185	T	G	A	TTCAAGCTGGAAATGAGACCCGATGAAGAACTGGAGAGCCCAAAGCGCTTCTCAA				
				GCCAAGGCCTCCTGCAGCTCTGCCAACTCCTGTACAGCGCCTACTTCAAGAGCAGCCTCACCACCATTGAGAAGCGCTTTGGGCTCTCCAGTTCTTCATC[AG]GG				
4185	IS	[AG]		TCTCATTTCCAGCTTGAATGAGGTGAGCAGGAGGTTCTGGTCCATCAGACTCCACTTGTGCACCACCCTGACCACAAGATCCAGGAGAAGCAGAGGAA				
4189	I		A	AGAGACAGAAGCCAACGAAGGAGGTCATTCATCAACAAATATT				
4189	P	G	A	ATGACGTGGCAGACGTTTATTGGAGACCGACTTT				
4189	P	A	A	CGCGCCGAGGATTTATTGGAGACCGACTTT				
4189	T	G	A	GCACAAAGTCGGTCTCCAATAAACATATTTGTTGATGAATGACCTCCTTCGTTGGCTTCTGTCTCTCA				
4189	T	A	A	GCACAAAGTCGGTCTCCAATAAATATATTTGTTGATGAATGACCTCCTTCGTTGGCTTCTGTCTCTCA				
				GCCTCCAGAGAGGTGGATGCCTGGGTTGAGAGACACAGCTGCTACGTGATAGATGTTGAGAGACAGAAGCCAACGAAGGAGGTCATTCATCAACAAATAT[GA]TT				
4189	IS	[GA]		TATTGGAGACCGACTTTGTGCAAAGCAATGCTAATCAGGGTTCTCCATGGAGCTTCCCTCAGCTCTTACCTCACCTCCCTCCATTTACATTAGGGCCT	ctg28098	3	SLC21A2	
4193	I		A	TCCAGAATTATTAGCTCAATTGTATTCAGTCTGAATAATCTTAAAAAAAAAAAAAAGAAAC				
4193	P	T	A	CGCGCCGAGGTAAACTATAACATGGTAACAGTTG				
4193	P	G	A	ATGACGTGGCAGACGAAACTATAACATGGTAACAGTTG				
4193	T	T	A	GTGCCAACTGTTACCATGTTATAGTTTATTTCTTTTTTTTTTTTTAAGATTATTCAGACTGAATACAATTGAGCTAATAATTCTGGACA				
4193	T	G	A	GTGCCAACTGTTACCATGTTATAGTTTCTTTCTTTTTTTTTTTTTAAGATTATTCAGACTGAATACAATTGAGCTAATAATTCTGGACA				
				TTATTAAATTGTCATTGCTAAATAAAGGTTGCCTTTGTTGTCCAGAATTATTAGCTCAATTGTATTCAGTCTGAATAATCTTAAAAAAAAAAAAAAGAAA[TG]AAACTAT				
4193	IS	[TG]		AACATGGTAACAGTTGGCACTCTTTTTCCCTCCTCTCCTTGCAGGCATTCTTTAGTGGCAGGCTGAAGGCCAGAGGGAACATCATGCTGAGCC				
4201	I		A	GGATGAGTGAGTTTCACCCACTTTTTCACATTTTAGGGCTT				
4201	P	G	A	ATGACGTGGCAGACGACCTTCTCTCTGGGC				
4201	P	C	A	CGCGCCGAGGCACCTTCTCTCTGGGC				
4201	T	G	A	GTTTGCCCAGAGAGAAGGTCAGCCCTAAAATGTGAAAAAGTGGGTGAAACTCACTCATCCTT				
4201	T	C	A	GTTTGCCCAGAGAGAAGGTGAGCCCTAAAATGTGAAAAAGTGGGTGAAACTCACTCATCCTT				
				TTATCCGGCAACTCTACTCTAGAAGACTTTTTCTTGAGAAATACCTTGAGTTGGGCTTAAGGATGAGTGAGTTTCACCCACTTTTTCACATTTTAGGGCT[GC]ACCT				
4201	IS	[GC]		TCTCTCTGGGCAAACAAGTTGGGAACAAGTTCTTCCTGACCAATGGTGAAATAATGACCTTTGAAAAAGTGAAGCCTTGTGTGTCAAGTTCCAGG	ctg15131	10		
4235	I		A	TGCTGCAAAAGAAAAGACAAACAACCATTAATTCAGACTAAAC				
4235	P	T	A	CGCGCCGAGGTGACTTTTAAGGATATATTAAATCCAG				
4235	P	A	A	ATGACGTGGCAGACAGACTTTTAAGGATATATTAAATCCAG				
4235	T	T	A	GTATCTGGATTTAATATATCCTTAAAAGTCATTTAGTCTGAATTAATGGTTGTTTGTCTTTTCTTTTGCAGCAAA				
4235	T	A	A	GTATCTGGATTTAATATATCCTTAAAAGTCTTTTAGTCTGAATTAATGGTTGTTTGTCTTTTCTTTTGCAGCAAA				
				ATGTTCAATGGCATGCTTTGTATAAGAATGCAACTTACCTGGCAGGAACAAATTTCTTTGCTGCAAAAGAAAAGACAAACAACCATTAATTCAGACTAAA[TA]GACTT				
4235	IS	[TA]		TTAAGGATATATTAAATCCAGATACAATATGACTTAATTCATCAAGTGTTGCAAACTCGATGCTTCAGGGCCTCTGTAATAATCAGAGCACAAGC	ctg13446	1		
4239	I		A	CTAACAGAGTGAGGAAGCTGCCTTCAAAGGGTAGATA				
4239	P	C	A	ATGACGTGGCAGACCCCAAAGTCCTATGTCAATT				
4239	P	T	A	CGCGCCGAGGTCCAAAGTCCTATGTCAATTC				
4239	T	C	A	CTAAGAATTGACATAGGACTTTGGGATCTACCCTTTGAAGGCAGCTTCCTCACTCTGTTAGGC				
4239	T	T	A	CTAAGAATTGACATAGGACTTTGGAATCTACCCTTTGAAGGCAGCTTCCTCACTCTGTTAGGC				
				ATTTTAAAGAGCACCATGAATTTTACAGAAGAATGATCTTTTCACTTCCTATTGAGCTGGGTGCCTAACAGAGTGAGGAAGCTGCCTTCAAAGGGTAGAT[CT]CCAA				
4239	IS	[CT]		AGTCCTATGTCAATTCTTAGGGACATGCACAGCCAGAATAAAAGCTTTTATTCTTTTTCATGGATATTCTATCTTTCTGATTTCCACTTTGCCTA	ctg13446	1		
4305	I		A	GGAAATTCTTCTGACCCTGTCCTGCTTGCTGATAGAT				
4305	P	G	A	ATGACGTGGCAGACGTTGAGCCAGTGGCY				
4305	P	C	A	CGCGCCGAGGCTTGAGCCAGTGGCTY				
4305	T	G	A	TGCCAGCCACTGGCTCAACTCTATCAGCAAGCAGGACAGGGTCAGAAGAATTTCCAA				
4305	T	C	A	TGCCAGCCACTGGCTCAAGTCTATCAGCAAGCAGGACAGGGTCAGAAGAATTTCCAA				
				AGTAGCGTCTCTTTCGCCTACCTTACGCTCACCCCATGGTTATATAACCTTTTGAACGGAATTTGGAAATTCTTCTGACCCTGTCCTGCTTGCTGATAGA[GC]TTGA				
4305	IS	[GC]		GCCAGTGGCTGGCAGGGGCATAATCTAATAGGCGAAACTGGAAACACACAAATTCACAGTCCTCTTGTCTTAGCCCAGAGACTGTACAGGCAAGGA	ctg13980	1		
4336	I		S	CGGGTTTCGCAGCACTGTCTGGGCT				
4336	P	T	S	CGCGCCGAGGAATGAAGACCTGCAAAG				
4336	P	C	S	ATGACGTGGCAGACGATGAAGACCTGCAAAG				
4336	T	T	S	CTTTGCAGGTCTTCATTGCCCAGACAGTGCTGCGAAACCCGCC				
4336	T	C	S	CTTTGCAGGTCTTCATCGCCCAGACAGTGCTGCGAAACCCGCC				
				CTTTGCAGGTCTTCAT[TC]GCCCAGACAGTGCTGCGAAACCCGCCTGCCATGAGCCCCGCCGGGCAGCTGTCCCGCACCACGGAGAAGGAGCTGCTCATCTACT				
4336	IS	[TC]		TGCGCGTGGCCACCT	ctg19	19		
4340	I		A	CCAGGGTCTTCTCCAAGGCCTCCCTCTTT				
4340	P	A	A	CGCGCCGAGGACCTAAGAAAAAGCCTTCAA				
4340	P	G	A	ATGACGTGGCAGACGCCTAAGAAAAAGCCTTCA				
4340	T	A	A	GGGGTTGAAGGCTTTTTCTTAGGTAAGAGGGAGGCCTTGGAGAAGACCCTGGAA				
4340	T	G	A	GGGGTTGAAGGCTTTTTCTTAGGCAAGAGGGAGGCCTTGGAGAAGACCCTGGAA				
				GGTGCCAGGCAATGAACAGGAATGGAAAGGAGACCAAGTCCAACTACCGAGTCCGTGTCTACCGTAAGAATTCCAGGGTCTTCTCCAAGGCCTCCCTCTT[AG]CC				
4340	IS	[AG]		TAAGAAAAAGCCTTCAACCCCAGCCTTGGCCCATGAGGGCCTCTGACTTCCACTGGCCTCATTTCCACACACAGAGTTTGAGAACCTTCACAATTACA	ctg15907	6		
4344	I		S	GAAGACACTCCAAATACTGTGAGTGCCCCATTTGCT				
4344	P	C	S	ATGACGTGGCAGACGGAAGTGGGAAAGGGAY				
4344	P	T	S	CGCGCCGAGGAGAAGTGGGAAAGGGAGY				
4344	T	C	S	GGGTCTCCCTTTCCCACTTCCGCAAATGGGGCACTCACAGTATTTGGAGTGTCTTCTG				
4344	T	T	S	GGGTCTCCCTTTCCCACTTCTGCAAATGGGGCACTCACAGTATTTGGAGTGTCTTCTG				
				AATTTTCAATTATTTTTTCTTTAAGCTATTTCATTGAATATTTCTCCCATTCAATATTGGGGGATTGTGTTGGGAGAGGAGGGTCTCCCTTTCCCACTTC[CT]GCAAA				
4344	IS	[CT]		TGGGGCACTCACAGTATTTGGAGTGTCTTCTGGGTCCTGCAGGAGCAGTCTGGTTCCTTCAGAGAGTCTGTGGGTCCTTTTGGGATTGCTGGTTT	ctg18037	7		
4352	I		S	CTGGAGCTGCCTGGTGGGAGCACT				
4352	P	T	S	CGCGCCGAGGATCTTTTCCTTGAGTGTAATTCA				
4352	P	C	S	ATGACGTGGCAGACGTCTTTTCCTTGAGTGTAATTC				
4352	T	T	S	TTAGTGAATTACACTCAAGGAAAAGATGTGCTCCCACCAGGCAGCTCCAGCT				
4352	T	C	S	TTAGTGAATTACACTCAAGGAAAAGACGTGCTCCCACCAGGCAGCTCCAGCT				
				AGACTAGATTCTCACCTGCCTTCAAAGAAGGGCCAATTCCCTTTAAAGGTCGCACCTCCTTGGAACCACAGTCATTAGTGAATTACACTCAAGGAAAAGA[TC]GTG				
4352	IS	[TC]		CTCCCACCAGGCAGCTCCAGCTGTTACCTGAGATACTGAAGTGCAGCTCAGGAGACGATTATTTAAACCTGCCCTTGTTTTAATCGTTATTTTTCTC	MULTIPLE	MULTIPLE	PTGIS	
4360	I		A	CTCTTCACTGGGGTCCCTGAGCTCCCA				
4360	P	T	A	CGCGCCGAGGTGAGACAACATGCAGAATTA				
4360	P	C	A	ATGACGTGGCAGACCGAGACAACATGCAGAAT				
4360	T	T	A	CCAGTAATTCTGCATGTTGTCTCAGGGAGCTCAGGGACCCCAGTGAAGAGCC				
4360	T	C	A	CCAGTAATTCTGCATGTTGTCTCGGGGAGCTCAGGGACCCCAGTGAAGAGCC				
				AGGTGTGTGCCTGGGACTCAGGCCTAGGAAGCCCAGGGTAGAGACAAGAGGAGGCACTCACGTTAACACAGAGGCTCTTCACTGGGGTCCCTGAGCTCCC[TC]G				
4360	IS	[TC]		AGACAACATGCAGAATTACTGGGAAGAGGGGCTGGTGGCAGACTTGTGTTTCTGGAGAAGAGAGTCGATCATCTCAGCAAATTCTCAAAGGGAAAAGCC	ctg16105	5		
4362	I		S	AGAAAGAGTCATCCCACTGACCTGTGGGGTCA				

FIGURE 129B

4362	P	A	S	CGCGCCGAGGTCCTGCCAGACCTG			
4362	P	G	S	ATGACGTGGCAGACCCCTGCCAGACCTG			
4362	T	A	S	GGTCCAGGTCTGGCAGGAGACCCCACAGGTCAGTGGGATGACTCTTTCTCT			
4362	T	G	S	GGTCCAGGTCTGGCAGGGGACCCCACAGGTCAGTGGGATGACTCTTTCTCT			
				CTGCCTGATGACCACAGCAGCTACACAGTTCCAGGCTACATGCAGGACTTGGAGGTGGAGCAGGCCCTGACTCCAGGTGAGCTGGTCCAGGTCTGGCAGG[AG]			
4362	IS	[AG]		GACCCCACAGGTCAGTGGGATGACTCTTTCTCTTGGAGGCATGGTGCTGGCACATGGTGGCCCATTAGTGCAGGCTGCAGGGTTGGTCGGAGGGCGCTCG	ctg16105	5	
4366	I		A	GGGTCTGTGAAGGGCTTCCTGAGAGAGAAAAGATGT			
4366	P	A	A	CGCGCCGAGGATCAGAACTCCACCTGG			
4366	P	C	A	ATGACGTGGCAGACCTCAGAACTCCACCTGG			
4366	T	A	A	AGTGCCAGGTGGAGTTCTGATCATCTTTTCTCTCTCAGGAAGCCCTTCACAGACCCAG			
4366	T	C	A	AGTGCCAGGTGGAGTTCTGAGCATCTTTTCTCTCTCAGGAAGCCCTTCACAGACCCAG			
				GTCACCCATGCCCTCCACCTCTGAAGGTTGGTGCTCCTGGGGCCTGGCCTGCTGCTTGACTGTCTGGGTCTGTGAAGGGCTTCCTGAGAGAGAAAAGATG[AC]T			
4366	IS	[AC]		CAGAACTCCACCTGGCACTGAATTGATTGAGTTGGGCATTGCAGTCTTAGCCACCATAGGGGGAGGCAAGCGACGGGGACACTAGGAAGGCAGTTCAGA	ctg16105	5	
4372	I		S	GCTTCAGGCAAACCTTAAGGCATGGCAGCT			
4372	P	T	S	CGCGCCGAGGAGTAGCTAATTCACAATGTGT			
4372	P	G	S	ATGACGTGGCAGACCGTAGCTAATTCACAATGTG			
4372	T	T	S	ACTGACACATTGTGAATTAGCTACTGCTGCCATGCCTTAAGGTTTGCCTGAAGCTG			
4372	T	G	S	ACTGACACATTGTGAATTAGCTACGGCTGCCATGCCTTAAGGTTTGCCTGAAGCTG			
				GATGAGGGAGAACCACGTAGGGATGGAGAAAGCTTGGGGGCAGGGCCAGGGAGCAGGGCGGTAAAGCATCTGGGGTACTGACACATTGTGAATTAGCTAC[TG]			
4372	IS	[TG]		GCTGCCATGCCTTAAGGTTTGCCTGAAGCTGAGTGGATGTTTACTGCTGTGCTGGGAAGAGCAGAGGCCATGTCTATGGCCTTCAGGGGTAGGGGGAAGC	ctg16105	5	
4374	I		A	GCACACCTGATGCCACCGTCCCCTT			
4374	P	A	A	CGCGCCGAGGACCCTCATACAACCTTCT			
4374	P	G	A	ATGACGTGGCAGACGCCCTCATACAACCTTC			
4374	T	A	A	GTGAAGAAGGTTGTATGAGGGTAGGGGACGGTGGCATCAGGTGTGCTT			
4374	T	G	A	GTGAAGAAGGTTGTATGAGGGCAGGGGACGGTGGCATCAGGTGTGCTT			
				CTGAAGCTGAGTGGATGTTTACTGCTGTGCTGGGAAGAGCAGAGGCCATGTCTATGGCCTTCAGGGGTAGGGGGAAGCACACCTGATGCCACCGTCCCCT[AG]C			
4374	IS	[AG]		CCTCATACAACCTTCTTCACATCTTCTAGGGGATATTGGGCTGAGTCTACAGCGTGTCTTCACAGATCTGAAGAACATGGATGCCACCTGGCTGGACAG	ctg16105	5	
4382	I		S	CGGAGTAGAGGTTGCTCCTGGAGAGCGT			
4382	P	T	S	CGCGCCGAGGACAGGAGCCCTGAAC			
4382	P	C	S	ATGACGTGGCAGACGCAGGAGCCCTGAA			
4382	T	T	S	GCGAGTTCAGGGCTCCTGTCGGCTCTCCAGGAGCAACCTCTACTCCGGA			
4382	T	C	S	GCGAGTTCAGGGCTCCTGCCGCTCTCCAGGAGCAACCTCTACTCCGGA			
				GGAGGAATCCCCAGGAATGCGAGCGCCCCTTTAAAAGCGCGCGGCTCCTCCGCCTTGCCAGCCGCTGCGCCCGAGCTGGCCTGCGAGTTCAGGGCTCCTG[TC]			
4382	IS	[TC]		CGCTCTCCAGGAGCAACCTCTACTCCGGACGCACAGGCATTCCCCGCGCCCCTCCAGCCCTCGCCGCCCTCGCCACCGCTCCCGGCCGCCGCGCTCCGGT	ctg2712	15	
4389	I		S	GGAATGGAAGGGAGCAGAGTGGGGAAGATCA			
4389	P	G	S	ATGACGTGGCAGACCGCTGGTATTTCTCCTG			
4389	P	A	S	CGCGCCGAGGTGCTGGTATTTCTCCTG			
4389	T	G	S	TGAGCAGGAGAAATACCAGCGGATCTTCCCCACTCTGCTCCCTTCCATTCCCA			
4389	T	A	S	TGAGCAGGAGAAATACCAGCAGATCTTCCCCACTCTGCTCCCTTCCATTCCCA			
				ACGACGTCACGTGATCCGGGATGAGGTGGAGTTCGGCTTTAAGGAGGCGTCTCTTCCTAGCTTCATCAATCTTTAGGATCTGAGCAGGAGAAATACCAGC[GA]GA			
4389	IS	[GA]		TCTTCCCCACTCTGCTCCCTTCCATTCCCACCCTTCCTTCTTTAATAAGCAGGAGCGAAAAAGACAAATTCCAAAGAGGGTAAGTTGCGAGTTTATGC			
4391	I		A	AGATGCTGTGGTGCACGAGGTCCAGAGATACT			
4391	P	A	A	CGCGCCGAGGATTGACCTTCTCCCCAC			
4391	P	C	A	ATGACGTGGCAGACCTTGACCTTCTCCCCA			
4391	T	A	A	GCTGGTGGGGAGAAGGTCAATGTATCTCTGGACCTCGTGCACCACAGCATCTGT			
4391	T	C	A	GCTGGTGGGGAGAAGGTCAAGGTATCTCTGGACCTCGTGCACCACAGCATCTGT			
				AGAGATTGAACGTGTGATTGGCAGAAACCGGAGCCCCTGCATGCAAGACAGGAGCCACATGCCCTACACAGATGCTGTGGTGCACGAGGTCCAGAGATAC[AC]TT			
4391	IS	[AC]		GACCTTCTCCCCACCAGCCTGCCCCATGCAGTGACCTGTGACATTAAATTCAGAAACTATCTCATTCCCAAGGTAAGTTTGTTTCTCCTACACTGCAA	ctg13284	10	
4406	I		S	GGACACGCAGCCTGGCCTCATGGATAAAT			
4406	P	C	S	ATGACGTGGCAGACGCCAGGGTCCAGC			
4406	P	T	S	CGCGCCGAGGACCAGGGTCCAGCT			
4406	T	C	S	TTTGAGCTGGACCCTGGCTTTATCCATGAGGCCAGGCTGCGTGTCCAG			
4406	T	T	S	TTTGAGCTGGACCCTGGTTTTATCCATGAGGCCAGGCTGCGTGTCCAG			
				CCACCTGCTAACTGTCCCCACCCCCACAGCAGGCCCAGCACAGGGATCACATTGTCGGGGTGACCTGGCTTATACTTGAAGCCTTTGAGCTGGACCCTGG[CT]TT			
4406	IS	[CT]		TATCCATGAGGCCAGGCTGCGTGTCCAGATGGCCACACTGGAGGATGATGTGGTAGAGGAGGAGCGTTATACAGGCCAGTGGAGTGAGTGGAGCCAGC	ctg15749	X	
4409	I		A	GAAGCACCTGAACCAAGTGGGTCCCCAAATAACC			
4409	P	A	A	CGCGCCGAGGAATGGCGTGCAAGTG			
4409	P	T	A	ATGACGTGGCAGACTATGGCGTGCAAGTG			
4409	T	A	A	CAGACACTTGCACGCCATTGTTATTTGGGGACCCACTTGGTTCAGGTGCTTCTC			
4409	T	T	A	CAGACACTTGCACGCCATAGTTATTTGGGGACCCACTTGGTTCAGGTGCTTCTC			
				TCCAAGTGTTCCTTCTTGCTGCCTCTCTAACACGCCTGGTTAAAATAATCCCTTTGGATGGTGCTGAGAAGCACCTGAACCAAGTGGGTCCCCAAATAAC[AT]ATG			
4409	IS	[AT]		GCGTGCAAGTGTCTGGTTCCCAGAAGTTGGTGACTAGGTAAGCAGCTTCAGGGAGAGGGGGCTGATTCCCAGACAGTCGCCTGTTCCTGCGGGGATG	ctg14583	1	
4410	I		S	TCACCACCACACACATGTTCAGCCCAACTT			
4410	P	T	S	CGCGCCGAGGAGAGCCTTTTGTCAGTAAG			
4410	P	C	S	ATGACGTGGCAGACGGAGCCTTTTGTCAGTAAG			
4410	T	T	S	TTGACTTACTGACAAAAGGCTCTAGTTGGGCTGAACATGTGTGTGGTGGTGACT			
4410	T	C	S	TTGACTTACTGACAAAAGGCTCCAGTTGGGCTGAACATGTGTGTGGTGGTGACT			
				CAACGTATTATTGATATTATTGTCTGTTTTCCTTCTTCCCAATAGAAGAATAAGTCATGGAGCCTGAAGGGTGCCTAGTTGACTTACTGACAAAAGGCTC[TC]AGTT			
4410	IS	[TC]		GGGCTGAACATGTGTGTGGTGGTGACTCATTTCCATGCCATTGTGGAATTGAGCAGAGAACCTGCTCTCGGAGGATGCCTAGAAGATGTTGGGAAC	ctg14583	1	ADORA3
4413	I		S	TCCAAAGAATCAGAGGGATGGCAGACCACACAT			
4413	P	C	S	ATGACGTGGCAGACGGCTTTGAGGATCAAAAGG			
4413	P	T	S	CGCGCCGAGGAGCTTTGAGGATCAAAAGG			
4413	T	C	S	CCTACCTTTTGATCCTCAAAGCCTGTGTGGTCTGCCATCCCTCTGATTCTTTGGACA			
4413	T	T	S	CCTACCTTTTGATCCTCAAAGCTTGTGTGGTCTGCCATCCCTCTGATTCTTTGGACA			
				TGGGCATCCTGCTGTCCCATGCCAACTCCATGATGAACCCTATCGTCTATGCCTATAAAATAAAGAAGTTCAAGGAAACCTACCTTTTGATCCTCAAAGC[CT]TGTG			
4413	IS	[CT]		TGGTCTGCCATCCCTCTGATTCTTTGGACACAAGCATTGAGAAGAATTCTGAGTAGTTATCCATCAGAGATGACTCTGTCTCATTGACCTTCAGAT	ctg14583	1	ADORA3
4416	I		S	AGGAAGGGAGGACACCTCGCCCAGTAATT			
4416	P	T	S	CGCGCCGAGGACAGACACCCTCCTC			
4416	P	G	S	ATGACGTGGCAGACCCAGACACCCTCCTC			
4416	T	T	S	AATGGAGGAGGGGTGTCTGTATTACTGGGCGAGGTGTCCTCCCTTCCTGG			
4416	T	G	S	AATGGAGGAGGGTGTCTGGATTACTGGGCGAGGTGTCCTCCCTTCCTGG			
				CCAGGCACAGGAAAGGACAGGGTCAGGAAAGGAGGACTCTGGGCGGCAGCCTCCACATTCCCCTTCCACGCTTGGCCCCCAGAATGGAGGAGGGTGTCTG[TG]			
4416	IS	[TG]		ATTACTGGGCGAGGTGTCCTCCCTTCCTGGGGACTGTGGGGGGTGGTCAAAAGACCTCTATGCCCCACCTCCTTCCTCCCTCTGCCCTGCTGTGCCTGGG	ctg16775	19	
4423	I		A	AAGTTCAACAGCCTCCTGTTGGGCAATTTCCTT			
4423	P	G	A	ATGACGTGGCAGACGTTCCAGAATCAACTCCAC			
4423	P	C	A	CGCGCCGAGGCTTCCAGAATCAACTCCAC			
4423	T	G	A	GGTAGTGGAGTTGATTCTGGAACAGGAAATTGCCCAACAGGAGGCTGTTGAACTTGA			

FIGURE 129B

4423	T	C	A	GGTAGTGGAGTTGATTCTGGAAGAGGAAATTGCCCAACAGGAGGCTGTTGAACTTGA		
				CATAAGCCTGAGTGAGTGAGGGGTCGGCCTTCCCACCATGGGCTGAGAACAGGGAGCAAGCGTACCTCAAGTTCAACAGCCTCCTGTTGGGCAATTTCCT[GC]TT		
4423	IS	[GC]		CCAGAATCAACTCCACTACCCATCCTGGGGCCGACCTACAGGAGAATTTCTGCCGCAACCCCGACAGCAGCACCACGGGACCCTGGTGCTACACTACA		
4427	I		A	CTCTAGACACTTCCACAGAGAAGCAAGCGAGGAAA		
4427	P	T	A	CGCGCCGAGGTGCCACAGCCCC		
4427	P	C	A	ATGACGTGGCAGACCGCCACAGCCCC		
4427	T	T	A	CGAAGGGGCTGTGGCATTCCTCGCTTGCTTCTCTGTGGAAGTGTCTAGAGTT		
4427	T	C	A	CGAAGGGGCTGTGGCGTTCCTCGCTTGCTTCTCTGTGGAAGTGTCTAGAGTT		
				GAGTCCTCCACGGCTACGGTGAGCCTGGGCTGCTCGGACGGTGCCGGGGCCTCAGACCGGGCCCAACTCTAGACACTTCCACAGAGAAGCAAGCGAGGAA[TC]		
4427	IS	[TC]		GCCACAGCCCCTTCGCTGCTCACAGCCTCATTTCAACTCTGAGCCCCTCCTCACAGGGCTGGCAAGAGGAGCGGCCTCAGCCTTTCCTGGGGGTCTCTGT		
4433	I		S	GGTGTTCCAGCTGCTCACAGGGTAATCTGCA		
4433	P	A	S	CGCGCCGAGGTTGTCTTTTTTACTTCCGTATCT		
4433	P	G	S	ATGACGTGGCAGACCTGTCTTTTTTACTTCCGTATC		
4433	T	A	S	TTGGAGATACGGAAGTAAAAAAGACAAGCAGATTACCCTGTGAGCAGCTGGAACACCGT		
4433	T	G	S	TTGGAGATACGGAAGTAAAAAAGACAGGCAGATTACCCTGTGAGCAGCTGGAACACCGT		
				GCATCATTCAGATCTTCATTTAATTCAGTAAACACTTAACTGAGCACTTCCTGTGCCTGGTATGATAATGGGCATTGGAGATACGGAAGTAAAAAAGACA[AG]GCAG			
4433	IS	[AG]		ATTACCCTGTGAGCAGCTGGAACACCGTGGAGCCTTCTGGGCTTCTCTTTATCCTAACATTCATTGCAGTTACTGTTGACTGATCATCTCTCAGCA	ctg2712	15
4434	I		A	CCAACACATAGCACAGTTCCTGATTTGGAATTCACTATTACCCT		
4434	P	G	A	ATGACGTGGCAGACGTTGAATAAATGAGTGAATGAAC		
4434	P	A	A	CGCGCCGAGGATTGAATAAATGAGTGAATGAACG		
4434	T	G	A	CATTCGTTCATTCACTCATTTATTCAACGGGTAATAGTGAATTCCAAATCAGGAACTGTGCTATGTGTTGGGG		
4434	T	A	A	CATTCGTTCATTCACTCATTTATTCAATGGGTAATAGTGAATTCCAAATCAGGAACTGTGCTATGTGTTGGGG		
				CAATACCCACCATTAACCATGGAATAGAAGCCTCCTGAGGCTAGGGCCATGTCACCCCCAACACATAGCACAGTTCCTGATTTGGAATTCACTATTACCC[GA]TTG			
4434	IS	[GA]		AATAAATGAGTGAATGAACGAATGAATAAATGAAAAGCTGTATAGTGAAGGCACTTCTATGTAGAACAATGTGGTGTGTGGTGGGGGGTGTGATCTT	ctg2712	15
4440	I		A	AGCAAGGATTTGAAAGATGCCATAGAAGTTCTGATAGCAGAAAAAAGAA		
4440	P	C	A	ATGACGTGGCAGACCGCAGGATTTCCACAG		
4440	P	T	A	CGCGCCGAGGTGCAGGATTTCCACAGA		
4440	T	C	A	CTCTTCTGTGGAAATCCTGCGTCTTTTTTCTGCTATCAGAACTTCTATGGCATCTTTCAAATCCTTGCTGG		
4440	T	T	A	CTCTTCTGTGGAAATCCTGCATCTTTTTTCTGCTATCAGAACTTCTATGGCATCTTTCAAATCCTTGCTGG		
				TCGCTAGATGTCTAAACTGAGTAAAAATAGACAATATTTTGACTTTTTTTCCAGCAAGGATTTGAAAGATGCCATAGAAGTTCTGATAGCAGAAAAAAGA[CT]GCAGG			
4440	IS	[CT]		ATTTCCACAGAAGAGAAACTGGAAGAATGTATGGACTTTGCCACTGAGTTGATTTTAGCAGAGGTACTGACCTGAACTAACTGTAATTCCCATGC	ctg2712	15
4443	I		A	CAATCACAGAGACATGTGGTTTCTATGATTTCATTTTGTTGAGGTTGTTGT		
4443	P	A	A	CGCGCCGAGGATCCTTGAGTGTCACCT		
4443	P	G	A	ATGACGTGGCAGACGTCCTTGAGTGTCACCT		
4443	T	A	A	GGGGAGGTGACACTCAAGGATCAACAACCTCAACAAAATGAAATCATAGAAACCACATGTCTCTGTGATTGAC		
4443	T	G	A	GGGGAGGTGACACTCAAGGACCAACAACCTCAACAAAATGAAATCATAGAAACCACATGTCTCTGTGATTGAC		
				CCTATACGTTCATCTTTCAGCTAAAGATTGTCATGTAAAATGTCCACAGTCAATCACAGAGACATGTGGTTTCTATGATTTCATTTTGTTGAGGTTGTTG[AG]TCCTT		
4443	IS	[AG]		GAGTGTCACCTCCCCTCATTTTTTGAAACTTTGATTCACTTTTCCAAATTTTTCCCATCTTCCAATTTGATTCACTTTTCCAAATTTTTCCCATC		
4453	I		S	GGAGGGACCGTGAGAAGGCAGAGGTGAT		
4453	P	G	S	CGCGCCGAGGCGCTGCTATTCCCTTAAG		
4453	P	C	S	ATGACGTGGCAGACGGCTGCTATTCCCTTAAG		
4453	T	G	S	GACCCTTAAGGGAATAGCAGCGTCACCTCTGCCTTCTCACGGTCCCTCCAG		
4453	T	C	S	GACCCTTAAGGGAATAGCAGCCTCACCTCTGCCTTCTCACGGTCCCTCCAG		
				TGTGAGTGGCCAAGTTGCAAAACTGGCTCTTACCTTTGAATCTTCCCCCATTCATACTCAGCCAGGCACATGGGGAGGAGACCCTTAAGGGAATAGCAGC[GC]TC			
4453	IS	[GC]		ACCTCTGCCTTCTCACGGTCCCTCCAGGAAGTGTGGGGGTCCCAGGCTTTGGTCTGAAACTACACTGAAATAGCTCATTTTTGCCTTTTGTTTTAACT	ctg_na	NA
4458	I		A	GGAGCCGAAGGAGCCCAATGGTCTGATA		
4458	P	C	A	ATGACGTGGCAGACCGTGCTGTATGAAGTGAG		
4458	P	T	A	CGCGCCGAGGTGTGCTGTATGAAGTGAG		
4458	T	C	A	ATAACTCACTTCATACAGCACGATCAGACCATTGGGCTCCTTCGGCTCCTG		
4458	T	T	A	ATAACTCACTTCATACAGCACAATCAGACCATTGGGCTCCTTCGGCTCCTG		
				CCAAGGCTGATGACATTGTTGGCCCTGTGACGCATGAAATCTTTGAGAACAACGTCGTCCACTTGATGTGGCAGGAGCCGAAGGAGCCCAATGGTCTGAT[CT]GT			
4458	IS	[CT]		GCTGTATGAAGTGAGTTATCGGCGATATGGTGATGAGGTAAGGCCCTTGACTCTTGGGCATGCCCCTGCACCACTTCAGCATGCCCCTTCAGAGTTGC	ctg_na	NA
4459	I		A	ACATTGCAGGGGATGACTTGGAGAGGCCT		
4459	P	G	A	ATGACGTGGCAGACGCAGGTGCTGGCCY		
4459	P	A	A	CGCGCCGAGGACAGGTGCTGGCCY		
4459	T	G	A	CCAGGGCCAGCACCTGCGGCCTCTCCAAGTCATCCCCTGCAATGTCC		
4459	T	A	A	CCAGGGCCAGCACCTGTGGCCTCTCCAAGTCATCCCCTGCAATGTCC		
				GTGACAGACTATTGTAAGTCTCCATGGCAGCCTCAGCTGACTGGGGCTGTGCTTAGCACTGAGCATGGTGGGACATTGCAGGGGATGACTTGGAGAGGCC[GA]C			
4459	IS	[GA]		AGGTGCTGGCCCTGGCCTTGACTCTCAGGCCTATCAGCTGCTGCGGTGCTTGCC	ctg_na	NA
4461	I		A	TGGCCTGGGAGTCAGCCCAGCTCT		
4461	P	G	A	ATGACGTGGCAGACGCCCCTCTCTCCTAC		
4461	P	A	A	CGCGCCGAGGACCCCTCTCTCCTACT		
4461	T	G	A	GGGCAGTAGGAGAGAGGGGCGAGCTGGGCTGACTCCCAGGCCACC		
4461	T	A	A	GGGCAGTAGGAGAGAGGGGTGAGCTGGGCTGACTCCCAGGCCACC		
				AGACAGGATTCCTGGGGTGACTGGGGGCTGTTGGGGAGACAGACAGAGGGGCCTCTACCAGCTTGGCTCCCTCCTGGTGGCCTGGGAGTCAGCCCAGCTC[GA]			
4461	IS	[GA]		CCCCTCTCTCCTACTGCCCCTCCCTTCAGGGCTTCCTGCTGCTGCAGATGGACTTTGGCTTCCCTGAGCACCTGCTGGTGGATTTCCTCCAGAGCTTGAG	ctg15972	16
4463	I		S	GGTGTAAACGTTAATATCTCTACATCCTACACCAAATGACATAGAAATTAA		
4463	P	G	S	ATGACGTGGCAGACCGACATAAGTGAAAGTATCTTATTATC		
4463	P	A	S	CGCGCCGAGGTGACATAAGTGAAAGTATCTTATTATC		
4463	T	G	S	TGAAGATAATAAGATACTTTCACTTATGTCGTAATTTCTATGTCATTTGGTGTAGGATGTAGAGATATTAACGTTTACACCTA		
4463	T	A	S	TGAAGATAATAAGATACTTTCACTTATGTCATAATTTCTATGTCATTTGGTGTAGGATGTAGAGATATTAACGTTTACACCTA		
				AAGATTGATGTCTTATAACATAATTTATAATTACAGAAAACATGTGAGTTCACTGGGAATAAATAAATTTTGAAGATAATAAGATACTTTCACTTATGTC[GA]TAATTTC			
4463	IS	[GA]		TATGTCATTTGGTGTAGGATGTAGAGATATTAACGTTTACACCTAACTCAAGTTTGTCATCTAAGACCTGAAAGGGTTTTGTCTATCAGCTGC	ctg14840	6
4468	I		S	CCAATAACAGAATGGGTTCGCATGACTCCCCATT		
4468	P	C	S	ATGACGTGGCAGACGCATGTTGCAGCTTTG		
4468	P	T	S	CGCGCCGAGGACATGTTGCAGCTTTGA		
4468	T	C	S	GTTTTCAAAGCTGCAACATGCATGGGGAGTCATGCGAACCCATTCTGTTATTGGGA		
4468	T	T	S	GTTTTCAAAGCTGCAACATGTATGGGGAGTCATGCGAACCCATTCTGTTATTGGGA		
				TTGTCCACGCATTTACCTCATCAGCTAACGAGGGCTTGACATGCATTTTTACTGTCTTTATTCCTGACACTGAGATGAATGTTTTCAAAGCTGCAACATG[CT]ATGG			
4468	IS	[CT]		GGAGTCATGCGAACCCATTCTGTTATTGGGAATGAAATCTGTCACCGACTGCTTGACTTGAGCCCAGGGGACACAGAGCAGAGAGCTGTATATGAT	ctg14840	6
4469	I		A	CCGGTTTTGAAACAGTCTGCAGTACACACGGTT		
4469	P	G	A	ATGACGTGGCAGACGACAGGAGAATGACCTGT		
4469	P	C	A	CGCGCCGAGGCACAGGAGAATGACCTGT		
4469	T	G	A	TCCCACAGGTCATTCTCCTGTCACCGTGTGTACTGCAGACTGTTTCAAAACCGGGC		
4469	T	C	A	TCCCACAGGTCATTCTCCTGTGACCGTGTGTACTGCAGACTGTTTCAAAACCGGGC		
				GAGCATGTAAATGAACAACAAGCAAATATTGAAGGTGGACCACTTATTTCCCATTGCTAATTGCCTGCCCGGTTTTGAAACAGTCTGCAGTACACACGGT[GC]ACA			
4469	IS	[GC]		GGAGAATGACCTGTGGGAGAGATACATGTTTAGAAGGAAGAGAAAGGACAAAGGCACACGTTTTACCATTTAAAATATTGTTACCAAACAAAAATAT	ctg14840	6

FIGURE 129B

4470	I		A	GATGCAATCAATGCCCCAGTCACCTGCTGA				
4470	P	C	A	ATGACGTGGCAGACCTATAACTTCACCAATAGGAAGAT				
4470	P	T	A	CGCGCCGAGGTTATAACTTCACCAATAGGAAGAT				
4470	T	C	A	TGAGATCTTCCTATTGGTGAAGTTATAGCAGCAGGTGACTGGGGCATTGATTGCATCTG				
4470	T	T	A	TGAGATCTTCCTATTGGTGAAGTTATAACAGCAGGTGACTGGGGCATTGATTGCATCTG				
				CTCTTTTCTGCTCTTAAGATCAGAATAATCCAGTTCATCCTAAAATGCTTTTCTTTGTGGTTTATTTTCCAGATGCAATCAATGCCCCAGTCACCTGCTG[CT]TATAA				
4470	IS	[CT]		CTTCACCAATAGGAAGATCTCAGTGCAGAGGCTCGCGAGCTATAGAAGAATCACCAGCAGCAAGTGTCCCAAAGAAGCTGTGATGTGAGTTCAGC	ctg3461	17		
4473	I		S	AGGAATTGTCAATGAGGTACTTGAGAGCAGCCCCT				
4473	P	C	S	ATGACGTGGCAGACGGTCATTGTGCCCTTC				
4473	P	T	S	CGCGCCGAGGAGTCATTGTGCCCTTCT				
4473	T	C	S	ATGGAGAAGGGCACAATGACCGGGGCTGCTCTCAAGTACCTCATTGACAATTCCTTC				
4473	T	T	S	ATGGAGAAGGGCACAATGACTGGGGCTGCTCTCAAGTACCTCATTGACAATTCCTTC				
				GCTCTGTGCGCCAGGAGTTCCCCCTGGGTCGCTTCCACACCAAGAAGGACATCAAGGCGGCTGTGCGGAATATGTCCTACATGGAGAAGGGCACAATGAC[CT]G				
4473	IS	[CT]		GGGCTGCTCTCAAGTACCTCATTGACAATTCCTTCACTGTGTCCAGTGGGGCTAGGCCCGGGGCCCAGAAGGTGGGCATTGTCTTCACTGATGGCCGGA	ctg14489	1	MATN1	
4474	I		S	GACCCTCCCGGGGGCTGCAA				
4474	P	G	S	ATGACGTGGCAGACCTCGTCCTGCTGGGY				
4474	P	A	S	CGCGCCGAGGTTCGTCCTGCTGGGY				
4474	T	G	S	CCTTCCCAGCAGGACGAGTGCAGCCCCCGGGAGGGTCAG				
4474	T	A	S	CCTTCCCAGCAGGACGAATGCAGCCCCCGGGAGGGTCAG				
				ATGGGACCTTTGAGTGTGGGGTATGCCGTTGTGGGCCTGGCTGGCTGGGATCCCAGTGTGAGTGCTCAGAGGAGGACTATCGCCCTTCCCAGCAGGACGA[GA]				
4474	IS	[GA]		TGCAGCCCCCGGGAGGGTCAGCCCGTCTGCAGCCAGCGGGGCGAGTGCCTCTGTGGTCAATGTGTCTGCCACAGCAGTGACTTTGGCAAGATCACGGGCA	ctg13297	17	ITGB3	
4476	I		A	CCGCCCCTTTCTTTTCCTCATCTACGAGCAA				
4476	P	T	A	CGCGCCGAGGTCGCACCAGCTGC				
4476	P	C	A	ATGACGTGGCAGACCCGCACCAGCTGC				
4476	T	T	A	GCAGGCAGCTGGTGCGATGCTCGTAGATGAGGAAAAGAAAGGGGCGGTC				
4476	T	C	A	GCAGGCAGCTGGTGCGGTGCTCGTAGATGAGGAAAAGAAAGGGGCGGTC				
				GCACCCAAGCCACCACTGTGACCACGGTGGGGTTCATGCCGCTGTCCACCCAAGTCCGCTTCACTGTCGACCGCCCCTTTCTTTTCCTCATCTACGAGCA[TC]CG				
4476	IS	[TC]		CACCAGCTGCCTGCTCTTCATGGGAAGAGTGGCCAACCCCAGCAGGTCCTAGAGGTGGAGGTCTAGGTGTCTGAAGTGCCTTGGGGGCACCCTCATTT	ctg22fin4	22	SERPiND1	
4478	I		A	GGCTATGTGTGCATGCTAACACAGTAACCGTCATATACTCAAAT				
4478	P	G	A	ATGACGTGGCAGACGTGTCAGCTCTAAGAACTG				
4478	P	A	A	CGCGCCGAGGATGTCAGCTCTAAGAACTG				
4478	T	G	A	TCTCCAGTTCTTAGAGCTGACACTTTGAGTATATGACGGTTACTGTGTTAGCATGCACACATAGCCTT				
4478	T	A	A	TCTCCAGTTCTTAGAGCTGACATTTTGAGTATATGACGGTTACTGTGTTAGCATGCACACATAGCCTT				
				GGCCTGAAGAGCGCCTTGTTTATGTGGTGACCTCAAGAGGGGCTGCTCCTGCACCAAGGCTATGTGTGCATGCTAACACAGTAACCGTCATATACTCAAA[GA]TG				
4478	IS	[GA]		TCAGCTCTAAGAACTGGAGATGAGGAGCTGCAAGCCACTCTACAGTTATCAAAGGCACAGCTGAGGGGGTTTGTGCTGACCAAGCTGGTTGCCTGGTG	ctg22fin4	22		
4479	I		A	TCAGAAGCTTTCTACACTGTTTTAGAAGTGGGAAATGGTTTCATTTTTCAT				
4479	P	G	A	ATGACGTGGCAGACGTGTGCCTATTATAAAATTGTGT				
4479	P	A	A	CGCGCCGAGGATGTGCCTATTATAAAATTGTGTC				
4479	T	G	A	AACTGACACAATTTTATAATAGGCACACTGAAAAATGAAACCATTTCCCACTTCTAAAACAGTGTAGAAAGCTTCTGAAT				
4479	T	A	A	AACTGACACAATTTTATAATAGGCACATTGAAAAATGAAACCATTTCCCACTTCTAAAACAGTGTAGAAAGCTTCTGAAT				
				TTGGTGTTTACGGATAGGCAACTGGTTCATTTTTCTAGCAAACTAAGAATTCAGAAGCTTTCTACACTGTTTTAGAAGTGGGAAATGGTTTCATTTTTCA[GA]TGTGC				
4479	IS	[GA]		CTATTATAAAATTGTGTCAGTTCCATTGTTGGGAGAGTTGACAAACTTAGAATAGGAGCTGTGGAATAGATGAAAATATTGTACTTATATTAAAT	ctg22fin4	22		
4480	I		S	AGCCACGAGATGACCTCTTGACACTTGTCCAGT				
4480	P	T	S	CGCGCCGAGGAACCTTCTTCTTGTCGG				
4480	P	G	S	ATGACGTGGCAGACCACCTTCTTCTTGTCGG				
4480	T	T	S	GAGGCCGACAAGAAGAAGGTTCTGGACAAGTGTCAAGAGGTCATCTCGTGGCTGG				
4480	T	G	S	GAGGCCGACAAGAAGAAGGTGCTGGACAAGTGTCAAGAGGTCATCTCGTGGCTGG				
				CAGCCAAGAACGCCCTGGAGTCCTACGCCTTCAACATGAAGAGCGCCGTGGAGGATGAGGGGCTCAAGGGCAAGATCAGCGAGGCCGACAAGAAGAAGGT[TG]				
4480	IS	[TG]		CTGGACAAGTGTCAAGAGGTCATCTCGTGGCTGGACGCCAACACCTTGGCCGAGAAGGACGAGTTTGAGCACAAGAGGAAGGAGCTGGAGCAGGTGTGTA	ctg15907	6	MULTIPLE SHORT GENE NAMES	
4483	I		S	CTTCCTCACCTCCCTGGCGCTCAGAAT				
4483	P	C	S	ATGACGTGGCAGACGCTTGGCTCAGACAGA				
4483	P	T	S	CGCGCCGAGGACTTGGCTCAGACAGA				
4483	T	C	S	CATGTCTGTCTGAGCCAAGCTTCTGAGCGCCAGGGAGGTGAGGAAGGT				
4483	T	T	S	CATGTCTGTCTGAGCCAAGTTTCTGAGCGCCAGGGAGGTGAGGAAGGT				
				GTCCTAAGACTGATGTTGCTAATAAGTGGGGGCATGGGCAGGGGGGCCTCCTTCTAGGAGTGATGACCACCCTTAATACCACATGTCTGTCTGAGCCAAG[CT]TT				
4483	IS	[CT]		CTGAGCGCCAGGGAGGTGAGGAAGGTTGGACTTCACCAGAGAGGCTTTGTGGACACCCTTTATCATCTTAGTGAGTGCTAGTGTCAAAACAAAGGGAG				
4484	I		A	GCCTTGCTCATGACTGTGTTTCTAACACCAAACACAT				
4484	P	A	A	CGCGCCGAGGATGTTCAGTAGAGAGCAGC				
4484	P	G	A	ATGACGTGGCAGACGTGTTCAGTAGAGAGCAG				
4484	T	A	A	AGCAGCTGCTCTCTACTGAACATTGTGTTTGGTGTTAGAAACACAGTCATGAGCAAGGCAC				
4484	T	G	A	AGCAGCTGCTCTCTACTGAACACTGTGTTTGGTGTTAGAAACACAGTCATGAGCAAGGCAC				
				CTGTAAGATCCTAGAAAGTGGGGGCCGTGCCTTGCTCATGACTGTGTTTCTAACACCAAACACA[AG]TGTTCAGTAGAGAGCAGCTGCTGAGTACGTTTCTGCTAA				
4484	IS	[AG]		ATGACAGTTGATGGAGGACATTTAGGGTTGCTTGGAGGTCAAGTCAAGGAGGCATTTAACA				
4487	I		S	CCCTGCAGCCTGGACCCTGACACT				
4487	P	G	S	CGCGCCGAGGCCTAAAGCAAGTCACAGTAG				
4487	P	C	S	ATGACGTGGCAGACGCTAAAGCAAGTCACAGTA				
4487	T	G	S	TCCCCTACTGTGACTTGCTTTAGGGTGTCAGGGTCCAGGCTGCAGGGGC				
4487	T	C	S	TCCCCTACTGTGACTTGCTTTAGCGTGTCAGGGTCCAGGCTGCAGGGGC				
				GGTGAAGCTCAGAGAAGGGTCGGATCTGAGAGAATGGGGAGGCCTGAGTGGGAGTGGGGGGCCTTGCTCCACCCCCATCCCCTACTGTGACTTGCTTTAG[GC]				
4487	IS	[GC]		GTGTCAGGGTCCAGGCTGCAGGGGCTGGGCCAATTTGTGGAGAGGCCGGGTGCCTTTCTGTCTTGCTTCCAGGGGGCTGGTTCACACTGTTCTTGGGCGC	ctg22fin4	22	LIF	
4506	I		S	GCTATGCAGAAGAAACGGTGATGGGGAGGGT				
4506	P	C	S	ATGACGTGGCAGACGTCCAGCAGTCCTCC				
4506	P	T	S	CGCGCCGAGGATCCAGCAGTCCTCC				
4506	T	C	S	AGGGGGAGGACTGCTGGACCCCTCCCCATCACCGTTTCTTCTGCATAGCCT				
4506	T	T	S	AGGGGGAGGACTGCTGGATCCCTCCCCATCACCGTTTCTTCTGCATAGCCT				
				AGGGAGGGAGATAGGCACGGATGGCAGTGGCTGCTGGCTTTCAGGGAGGGAGAGGGAACAGGGTTCCTAGGGCCTGGTGGGCAGGGGGAGGACTGCTGGA[C				
4506	IS	[CT]		T]CCCTCCCCATCACCGTTTCTTCTGCATAGCCTGGATCTCCTCAAGTCCCCAAGATTCACACCTGACTCTGAAATCTGAAGACCTCGAGCAGATGATGCCA				
4508	I		A	GTCCCCTGCCCACTTGCTCCCCT				
4508	P	G	A	ATGACGTGGCAGACGTGAGCACTGCGTAC				
4508	P	A	A	CGCGCCGAGGATGAGCACTGCGTACA				
4508	T	G	A	TGTTTGTACGCAGTGCTCACGGGGAGCAAGTGGGCAGGGGACGG				
4508	T	A	A	TGTTTGTACGCAGTGCTCATGGGGAGCAAGTGGGCAGGGGACGG				
				CTGCAGGAAGGGGTGCACCGGAAGGAGCCCCAGGGGGCCACGTAGCAGCGGCTCAGTTGGTGGCCATCGATCTGGACCGTCCCCTGCCCACTTGCTCCCC[GA]				
4508	IS	[GA]		TGAGCACTGCGTACAAACATCCAAAAGTTCAACAACACCAGAACTGTGTGTCTCATGGTATATAACTCTTAAAGCAAATAAATGAACTGACTTCAACTGG	ctg12414	1		
4511	I		A	GGTCATCTTTGCTGTCGTCCTCATCTTCCTGCTA				
4511	P	C	A	ATGACGTGGCAGACCTGCTGGCTGCCC				
4511	P	T	A	CGCGCCGAGGTTGCTGGCTGCCC				
4511	T	C	A	TGTAGGGCAGCCAGCAGAGCAGGAAGATGAGGACGACAGCAAAGATGACCCG				

FIGURE 129B

4511	T	T	A	TGTAGGGCAGCCAGCAAAGCAGGAAGATGAGGACGACAGCAAAGATGACCCG			
				TCTGCTACGGATTCACCCTGCGTACGCTGTTTAAGGCCCACATGGGGCAGAAGCACCGGGCCATGCGGGTCATCTTTGCTGTCGTCCTCATCTTCCTGCT[CT]TG			
4511	IS	[CT]		CTGGCTGCCCTACAACCTGGTCCTGCTGGCAGACACCCTCATGAGGACCCAGGTGATCCAGGAGACCTGTGAGCGCCGCAATCACATCGACCGGGCTC			IL8RB
4512	I		A	CTCAAGGACCAGAGAGGCAGTGGGTCCA			
4512	P	C	A	ATGACGTGGCAGACCACAGTCAGGTGCG			
4512	P	T	A	CGCGCCGAGGTACAGTCAGGTGCGG			
4512	T	C	A	ATCCCCGCACCTGACTGTGGGACCCACTGCCTCTCTGGTCCTTGAGGA			
4512	T	T	A	ATCCCCGCACCTGACTGTAGGACCCACTGCCTCTCTGGTCCTTGAGGA			
				GAGCATGATAAAGCCATAAGTAAGATGTGGTAGAAGGGAAAGAGCCAGGACAGAGGGGAGAGAAAGCAGGATCCTCAAGGACCAGAGAGGCAGTGGGTCC[CT]A			
4512	IS	[CT]		CAGTCAGGTGCGGGGATTCAACAGAAACAGAAGGAGGGACGCTTCTCACTCTGACCCCGGAAAGAAGGAAGAAACTGCGTGCGAGTTCAGACAAGTCCG			
4529	I		S	GGATGGGAGGGTCCTTCAGCCCCTT			
4529	P	T	S	CGCGCCGAGGACCCTGGGGAAGGGY			
4529	P	G	S	ATGACGTGGCAGACCCCCTGGGGAAGGY			
4529	T	T	S	CGTGCCCTTCCCCAGGGTAGGGGCTGAAGGACCCTCCCATCCTA			
4529	T	G	S	CGTGCCCTTCCCCAGGGGAGGGGCTGAAGGACCCTCCCATCCTA			
				CAGGCGGGAATGAGTGGATGGGTGGATCAACAGAGGCTGCCCACAGGAGAGAGGGAGGCCTGGCCTGGGAACAGAGCTGTGACCGTGCCCTTCCCCAGGG[TG			
4529	IS	[TG]		]AGGGGCTGAAGGACCCTCCCATCCTAGTGACAGGGCCACAGCATGTCCAAGGAGGCCCCAGAGGAGGTCCCGGGAGTCCTGGGAGAGCCTGGTTAGCCTC	ctg16861	13	
4530	I		S	GGGGAGGACACAGGCGTCCTCTGAT			
4530	P	T	S	CGCGCCGAGGACACCCCAGCTGAGY			
4530	P	C	S	ATGACGTGGCAGACGCACCCCAGCTGAY			
4530	T	T	S	AGCTCTCAGCTGGGGTGTTCAGAGGACGCCTGTGTCCTCCCCTC			
4530	T	C	S	AGCTCTCAGCTGGGGTGCTCAGAGGACGCCTGTGTCCTCCCCTC			
				TCACCTGACCTTTCTCCTGTCCCCCCCACTTGAGCTCAGTGGCTGGGCAGCAGGGGATGCATGGCCACTGGCCGGCCAGGTGCAGCTCTCAGCTGGGGTG[TC]T			
4530	IS	[TC]		CAGAGGACGCCTGTGTCCTCCCCTCCCCATCCCTCTGTCACCCTTGGAGGCAGAGAACTTTGCCCGTCAGTCCCATGGGGAATGTCAACAGGCAGGGG	ctg16861	13	
4536	I		S	CCCTTATCTGTTCCCTTACCTGCACCCTTACCTT			
4536	P	C	S	ATGACGTGGCAGACGCATCCTTACCCACATC			
4536	P	T	S	CGCGCCGAGGACATCCTTACCCACATCC			
4536	T	C	S	GTAAGGATGTGGGTAAGGATGCAGGTAAGGGTGCAGGTAAGGGAACAGATAAGGGTG			
4536	T	T	S	GTAAGGATGTGGGTAAGGATGTAGGTAAGGGTGCAGGTAAGGGAACAGATAAGGGTG			
				GATGCAGGTAAGGGTGCAGGTAAGGATGCGGGTAAGGATGCAGGTAAGGATGCAGGTAAGGGTGCAGGTAAGGATGCAGGTAAGGATGTGGGTAAGGATG[CT]			
4536	IS	[CT]		AGGTAAGGGTGCAGGTAAGGGAACAGATAAGGGTGCAGGTAAGGGGACAAGTAAGGAGGCATATAAGGGTGCTGGGGGATGGGAGGAGTGTGGGATAAAG			
4538	I		A	GGACCCCTGTGTCCCACCCCAACAT			
4538	P	A	A	CGCGCCGAGGACCCCACTACGCTTT			
4538	P	C	A	ATGACGTGGCAGACCCCCCACTACGCTTT			
4538	T	A	A	AGACAAAGCGTAGTGGGGTTGTTGGGGTGGGACACAGGGGTCCCC			
4538	T	C	A	AGACAAAGCGTAGTGGGGGTGTTGGGGTGGGACACAGGGGTCCCC			
				TCTGTGAGGCTCTCTGAGTAGGAGAGTGGTGGCCCCCGCCTCCAGGAGTGGTCCTGAGCATCAGACACAGAGTAGGGGACCCCTGTGTCCCACCCCAACA[AC]C			
4538	IS	[AC]		CCCACTACGCTTTGTCTGCTCTCCTGCAGGTAAGAAAAAGTGCTCGGAGAGCTCGGACAGCGGCTCCGGGTTCTGGAAGGCCCTGACCTTCATGGCCGT	ctg17253	1	
4541	I		A	CCTGCTCCTGTCATCCAACCTGGGTCCA			
4541	P	T	A	CGCGCCGAGGTCTCTCTACCCTGTTCTCT			
4541	P	C	A	ATGACGTGGCAGACCCTCTCTACCCTGTTCTC			
4541	T	T	A	GGTCAGAGAACAGGGTAGAGAGAGGACCCAGGTTGGATGACAGGAGCAGGGG			
4541	T	C	A	GGTCAGAGAACAGGGTAGAGAGAGGGACCCAGGTTGGATGACAGGAGCAGGGG			
				CCTCCCAACTCTGACTTGTGACTTGCCACCCTCACTGTGGCCCCCTTCCCATGCCTAACTTGTTGACACCACCCCTGCTCCTGTCATCCAACCTGGGTCC[TC]CTC			
4541	IS	[TC]		TCTACCCTGTTCTCTGACCTCTGTCTCCAGATTATAACATGATGCTTTGATCCAGTGAGGCCCCCACCACCCAGGTTTTAACAGTCTGGCTTCTTAT	ctg15071	9	
4542	I		A	CCCTTTCTTGACTCTGCCTAGTCCTCATGTCCCC			
4542	P	G	A	ATGACGTGGCAGACGCCCCTCCCATCC			
4542	P	T	A	CGCGCCGAGGTCCCCTCCCATCCT			
4542	T	G	A	GGCAAGGATGGGAGGGGCGGGACATGAGGACTAGGCAGAGTCAAGAAAGGGTC			
4542	T	T	A	GGCAAGGATGGGAGGGGAGGGACATGAGGACTAGGCAGAGTCAAGAAAGGGTC			
				AAGCTGTGTTGTCCTGGAGTGACTGCCGGGTAAGTGCCCCACCTGCCTGTTGGTCTGACACTCATGACCCTTTCTTGACTCTGCCTAGTCCTCATGTCCC[GT]CC			
4542	IS	[GT]		CCTCCCATCCTTGCCCGCTCTGTCCGTAATCCTCACCTCTCTATCTGTCCTAACCGTCTAACTATCCTTATTCAACAGAAAATTCAACTGGTATGTTT	ctg15071	9	
4544	I		S	CCTCTCACCAGCTACAGCCCCCGTT			
4544	P	G	S	ATGACGTGGCAGACCTCCTACTCCACTCAGTT			
4544	P	T	S	CGCGCCGAGGATCCTACTCCACTCAGTTC			
4544	T	G	S	CCCAGAACTGAGTGGAGTAGGAGACGGGGGCTGTAGCTGGTGAGAGGAA			
4544	T	T	S	CCCAGAACTGAGTGGAGTAGGATACGGGGGCTGTAGCTGGTGAGAGGAA			
				GCCTGGCTAGGGGCGGCAGAGCTCCAGGGCTTAGAGGGGGCGGGGCAGGGAAGGGGAAGGAGGGGATGGCTCTGGGGTCCCAGAACTGAGTGGAGTAGGA[			
4544	IS	[GT]		GT]ACGGGGGCTGTAGCTGGTGAGAGGAAGTCCTAGAGGCTATGGACACTCTGCTGCTGGGATCACCGAGGTAGGGTGGGGCTAAGCAGGGTAAGTGTGGCTG			
4547	I		S	GGCAGAGCTTAGTGGATACCACCCTATTCACCTC			
4547	P	C	S	ATGACGTGGCAGACGAGATTTGGAATACTGAAGCT			
4547	P	A	S	CGCGCCGAGGTAGATTTGGAATACTGAAGCTT			
4547	T	C	S	TCCAAAGCTTCAGTATTCCAAATCTCAGGTGAATAGGGTGGTATCCACTAAGCTCTGCCAC			
4547	T	A	S	TCCAAAGCTTCAGTATTCCAAATCTAAGGTGAATAGGGTGGTATCCACTAAGCTCTGCCAC			
				ACTAGGCCCCTTCTGCCAATACAGAAGGAGACAGTGCAGTGGAGTCCTTTCATAGCAAGTTCTGCCTTCATGATTTCCAAAGCTTCAGTATTCCAAATCT[CA]AGGT			
4547	IS	[CA]		GAATAGGGTGGTATCCACTAAGCTCTGCCACTTGCTCTCTTTCTGGCTGGTGTGGGAAGGATGGCGTCTTTTTTTTTTTTTTTTTTTTTGAGATGGA			
4550	I		S	GGACACTTTTGGGAGAGTGCTCAGCTCACAT			
4550	P	T	S	CGCGCCGAGGAGACCACCCAACTCTAC			
4550	P	C	S	ATGACGTGGCAGACGGACCACCCAACTCTA			
4550	T	T	S	GGGAGTAGAGTTGGGTGGTCCTGTGAGCTGAGCACTCTCCCAAAAGTGTCCCC			
4550	T	C	S	GGGAGTAGAGTTGGGTGGTCCTGTGAGCTGAGCACTCTCCCAAAAGTGTCCCC			
				ACTGTGGCTAGGGTGACCAGAATTCACTGTCCAGCGTGGCTGCAGGAGCCCACTCTCTGAAGATGGTGGGATTCAGAGGTGGGAGTAGAGTTGGGTGGTC[TC]T			
4550	IS	[TC]		GTGAGCTGAGCACTCTCCCAAAAGTGTCCCCTACATATGAGGTTGACAGCTTATTCCTGCAGGGACTCAGGAGTAACTCTGGGTGCTAAAACAAAACTT	ctg14326	3	
4553	I		S	GAGAGGCGACATTTCCCCTTCTAACTTCTGTTACTTTACAGAGC			
4553	P	C	S	ATGACGTGGCAGACGGTTTGAGTTCACTCAGTAC			
4553	P	A	S	CGCGCCGAGGTGTTTGAGTTCACTCAGTAC			
4553	T	C	S	ACAAGTACTGAGTGAACTCAAACCCTCTGTAAAGTAACAGAAGTTAGAAGGGGAAATGTCGCCTCTCTG			
4553	T	A	S	ACAAGTACTGAGTGAACTCAAACACTCTGTAAAGTAACAGAAGTTAGAAGGGGAAATGTCGCCTCTCTG			
				AGCCTCTACAAAAGCAAGTAGAAGAAGACGGCAGCAGAGGGCGCTTCTTCAAACACCCTGTCCAACTCCTGGCACTGACAAGTACTGAGTGAACTCAAAC[CA]CT			
4553	IS	[CA]		CTGTAAAGTAACAGAAGTTAGAAGGGGAAATGTCGCCTCTCTGAAGATTACCCAAAGAAAAAGTGATTTGTCATTGCTTTATAGACTGTAAGAAGAGA	ctg14326	3	
4571	I		S	CTCCAAACAAGAAGGTAAAGCGAGTTCAGATCCTGCA			
4571	P	G	S	ATGACGTGGCAGACCGCCCATGATCAGC			
4571	P	A	S	CGCGCCGAGGTGCCCATGATCAGCA			
4571	T	G	S	AAATTGCTGATCATGGGCGGCAGGATCTGAACTCGCTTTACCTTCTTGTTTGGAGCA			
4571	T	A	S	AAATTGCTGATCATGGGCAGCAGGATCTGAACTCGCTTTACCTTCTTGTTTGGAGCA			

				GAGCTCACTACACAGGTTCCTGGCTATCGAGTCTGAATCTGCACTACTCAACTTATAAACTGTCTGCAGACACCTGTTAGGGAAATTGCTGATCATGGGC[GA]GCA			
4571	IS	[GA]		GGATCTGAACTCGCTTTACCTTCTTGTTTGGAGCACAGGGACCGCCCAGCTAGAGGAGCACCAGCGCACTGCGCCCCAGCCCTGGGCGAGGGTGCGG	ctg16306	4	NPY2R
4574	I		S	GGACGTGGACGTGCAGACTGCATCCT			
4574	P	T	S	CGCGCCGAGGATGCTTGCATTCCCAG			
4574	P	G	S	ATGACGTGGCAGACCTGCTTGCATTCCCAG			
4574	T	T	S	ATCCCTGGGAATGCAAGCATGGATGCAGTCTGCACGTCCACGTCCCC			
4574	T	G	S	ATCCCTGGGAATGCAAGCAGGGATGCAGTCTGCACGTCCACGTCCCC			
				TGAGCCCAGCCACCCCAGCCACTCTGTCCCCTGCTGCCTCCTGAGCAAGCCTCCTCCCTCCTCCAGCTGTAACGTGGTGGCCATCCCTGGGAATGCAAGCA[TG]G			
4574	IS	[TG]		GATGCAGTCTGCACGTCCACGTCCCCCACCCGGAGTATGGCCCCAGGGGCAGTACACTTACCCCAGCCAGTGTCCACACGATCCCAACACACGCAGCCA	ctg13980	1	
4575	I		A	CCAGCCACTCTGTCCCCTGCTGCA			
4575	P	C	A	ATGACGTGGCAGACCTCCTGACCAAGCCT			
4575	P	T	A	CGCGCCGAGGTTCCTGACCAAGCCTC			
4575	T	C	A	GGAGGAGGCTTGGTCAGGAGGCAGCAGGGGACAGAGTGGCTGGGG			
4575	T	T	A	GGAGGAGGCTTGGTCAGGAAGCAGCAGGGGACAGAGTGGCTGGGG			
				CTCCTATCCTGCCTGCTGGGGCCCGTGAATGAGCCCAGCCACCCCAGCCACTCTGTCCCCTGCTGC[CT]TCCTGACCAAGCCTCCTCCTCCTCCAGCTGTAACGT			
4575	IS	[CT]		GGTGGCCATCCCTGGGAATGCAAGCATGGATGCAGTCTGCACGTCCACGTCCCCCACCCGGAGT	ctg13980	1	
4585	I		A	AGGCAGCCAATGATCTCAGAGGCTGTATACCCT			
4585	P	A	A	CGCGCCGAGGACCCAGAGTTATTTTATGCAT			
4585	P	C	A	ATGACGTGGCAGACCCCCAGAGTTATTTTATGCA			
4585	T	A	A	TGATATGCATAAAATAACTCTGGGTGGGTATACAGCCTCTGAGATCATTGGCTGCCTCC			
4585	T	C	A	TGATATGCATAAAATAACTCTGGGGGGGTATACAGCCTCTGAGATCATTGGCTGCCTCC			
				CAGAATTGAAATGCCACAGACATTCCCCCTGCTCCGCCCCTTTCCCCCGGATACCCAGTTTCTCCCGGAGGCAGCCAATGATCTCAGAGGCTGTATACCC[AC]CC			
4585	IS	[AC]		CAGAGTTATTTTATGCATATCAAGGAAAGTCTACATAGAGGACTGTTTCTGGGGTACCCAGATGCAGCGTCAAATGCCATGGAATACTACAGTGAGGA	ctg15972	16	
4863	I		A	GAGATCACCTTCAGAGCAAAGAAAACGCATAATCTCT			
4863	P	C	A	CGCGCCGAGGCCCAAACATCATGACTTATCT			
4863	P	G	A	ATGACGTGGCAGACGCCAAACATCATGACTTATC			
4863	T	C	A	AGTCAGATAAGTCATGATGTTTGGGGAGATTATGCGTTTTCTTTGCTCTGAAGGTGATCTCAA			
4863	T	G	A	AGTCAGATAAGTCATGATGTTTGGCGAGATTATGCGTTTTCTTTGCTCTGAAGGTGATCTCAA			
				TGTAGATGGGCCAGCAGAATATTTGAGATCACCTTCAGAGCAAAGAAAACGCATAATCT[CG]CCAAACATCATGACTTATCTGACTGGTTAAAATGAGTATCACTG			
4863	IS	[CG]		TCTTTCCTCCGTCATC	ctg15907	6	
4909	I		S	GGTGACCAGCAAGAACGACCATCCTAATACATCCTAGT			
4909	P	C	S	ATGACGTGGCAGACGAAGGAATGTGCCAAAGC			
4909	P	T	S	CGCGCCGAGGAAAGGAATGTGCCAAAGC			
4909	T	C	S	CGTGGCTTTGGCACATTCCTTCCTAGGATGTATTAGGATGGTCGTTCTTGCTGGTCACCCC			
4909	T	T	S	CGTGGCTTTGGCACATTCCTTTCTAGGATGTATTAGGATGGTCGTTCTTGCTGGTCACCCC			
				CTGAGCTCAGTTTGCGAGGGTGCAGGGAAGCACTTCCACCGTGGCTTTGGCACATTCCTT[CT]CTAGGATGTATTAGGATGGTCGTTCTTGCTGGTCACCCCCGC			
4909	IS	[CT]		ACTGCCTCGGTCTCTCCT	ctg22fin6	22	
4910	I		S	GGGCTCCAGTTCTAGCTCTGCTACAAACTCACTA			
4910	P	G	S	ATGACGTGGCAGACCCTGCACAAATGGCTT			
4910	P	A	S	CGCGCCGAGGTCTGCACAAATGGCTTC			
4910	T	G	S	TGTTGAAGCCATTTGTGCAGGAGTGAGTTTGTAGCAGAGCTAGAACTGGAGCCCGG			
4910	T	A	S	TGTTGAAGCCATTTGTGCAGAAGTGAGTTTGTAGCAGAGCTAGAACTGGAGCCCGG			
				AATCACTTAATTTTACTTACAGAAAAACCTAGGCTCAAAGTGTTGAAGCCATTTGTGCAG[GA]AGTGAGTTTGTAGCAGAGCTAGAACTGGAGCCCGGATTTCCTTT			
4910	IS	[GA]		GCTGCTATATTTTCCC	ctg15907	6	
4913	I		S	ATGACACTTTGATTCTTTTTCTAAATGTCCGCTCCCCAAAATGATTTTA			
4913	P	G	S	ATGACGTGGCAGACCGATTTCTCAGGGAAAGTG			
4913	P	A	S	CGCGCCGAGGTGATTTCTCAGGGAAAGTG			
4913	T	G	S	TTACCACTTTCCCTGAGAAATCGAAAATCATTTTGGGGAGCGGACATTTAGAAAAAGAATCAAAGTGTCATGG			
4913	T	A	S	TTACCACTTTCCCTGAGAAATCAAAAATCATTTTGGGGAGCGGACATTTAGAAAAAGAATCAAAGTGTCATGG			
				GGGTTATATACAGCCTTTGCCTCTCTGAGTCAATGTATTTACCACTTTCCCTGAGAAATC[GA]AAAATCATTTTGGGGAGCGGACATTTAGAAAAAGAATCAAAGTG			
4913	IS	[GA]		TCATGGATATCAAATT			
4915	I		S	AGAACAGCAGCTTGGTAGCCAGCATGCTTT			
4915	P	C	S	ATGACGTGGCAGACGTCTTCAGATCCCTACTCTA			
4915	P	T	S	CGCGCCGAGGATCTTCAGATCCCTACTCTAC			
4915	T	C	S	AGGGGTAGAGTAGGGATCTGAAGACAAGCATGCTGGCTACCAAGCTGCTGTTCTTG			
4915	T	T	S	AGGGGTAGAGTAGGGATCTGAAGATAAGCATGCTGGCTACCAAGCTGCTGTTCTTG			
				AGAGAGGTTAAGATGTGGGTCCACACACAACTGGACAGGGGTAGAGTAGGGATCTGAAGA[CT]AAGCATGCTGGCTACCAAGCTGCTGTTCTTGGAAATGAGATA			
4915	IS	[CT]		GCCAGGACTGGGGTCACC	ctg16920	19	
4941	I		A	GCAGTCCTACCACACACTAGGCCCTGTGAC			
4941	P	T	A	CGCGCCGAGGTAAGTGCTTTCTCTGTATCATC			
4941	P	A	A	ATGACGTGGCAGACAAAGTGCTTTCTCTGTATCAT			
4941	T	T	A	GGAAGATGATACAGAGAAAGCACTTATCACAGGGCCTAGTGTGTGGTAGGACTGCTA			
4941	T	A	A	GGAAGATGATACAGAGAAAGCACTTTTCACAGGGCCTAGTGTGTGGTAGGACTGCTA			
				TCCCAGTCTGCCCATTGGCATGTTGTCCATAGCAGTCCTACCACACACTAGGCCCTGTGA[TA]AAGTGCTTTCTCTGTATCATCTTCCAAATAGCCTAGTGAAATGG			
4941	IS	[TA]		ACAATTGTAGTCTCAT			
4949	I		A	CCCATCTCTTATCCCTGATGTCACTACTGAGCTGGGT			
4949	P	A	A	CGCGCCGAGGAATCACAGGAGACTAGAGC			
4949	P	G	A	ATGACGTGGCAGACGATCACAGGAGACTAGAGC			
4949	T	A	A	AGGTGCTCTAGTCTCCTGTGATTCCCAGCTCAGTAGTGACATCAGGGATAAGAGATGGGAA			
4949	T	G	A	AGGTGCTCTAGTCTCCTGTGATCCCCAGCTCAGTAGTGACATCAGGGATAAGAGATGGGAA			
				AGAGCTCATTCTGACCCATCCCTTCCCATCTCTTATCCCTGATGTCACTACTGAGCTGGG[AG]ATCACAGGAGACTAGAGCACCTCTTCCTCCATGGCAAGTGCAT			
4949	IS	[AG]		CAGAAGAATCCTGATCT	ctg15907	6	
4963	I		S	CCTGGCCTGGACAGCAGGGCTCT			
4963	P	C	S	ATGACGTGGCAGACGGGCTTCGAGTGAGTA			
4963	P	T	S	CGCGCCGAGGAGGCTTCGAGTGAGTAAA			
4963	T	C	S	CCCTTTTACTCACTCGAAGCCCGAGCCCTGCTGTCCAGGCCAGGTG			
4963	T	T	S	CCCTTTTACTCACTCGAAGCCTGAGCCCTGCTGTCCAGGCCAGGTG			
				CAGCAAAGTCCACTCCTGGTTTTGATGTTTTCTATTCATCCCTTTTACTCACTCGAAGCC[CT]GAGCCCTGCTGTCCAGGCCAGGTGCTGGGCTGGCTCTGGGGA			
4963	IS	[CT]		CCAGCGAAGTCCTAGTAG	ctg15330	9	
4964	I		A	GGCTGGCTCTGGGGACCAGCGC			
4964	P	T	A	CGCGCCGAGGTAGTCCTAGTAGGCCAG			
4964	P	A	A	ATGACGTGGCAGACAAGTCCTAGTAGGCCAG			
4964	T	T	A	AGGGCTGGCCTACTAGGACTACGCTGGTCCCCAGAGCCAGCCCA			
4964	T	A	A	AGGGCTGGCCTACTAGGACTTCGCTGGTCCCCAGAGCCAGCCCA			
				CACTCGAAGCCCGAGCCCTGCTGTCCAGGCCAGGTGCTGGGCTGGCTCTGGGGACCAGCG[TA]AGTCCTAGTAGGCCAGCCCTATCTGCGTGGAGCCACGGTT			
4964	IS	[TA]		GGGTGTGCATCATGCAGCCC	ctg15330	9	
4981	I		A	GCCTCTGTCCCCACCCAATTTAATCATTCACCCTAT			
4981	P	G	A	ATGACGTGGCAGACGTGTAGCAACCAGAGC			
4981	P	A	A	CGCGCCGAGGATGTAGCAACCAGAGCC			
4981	T	G	A	CAGGGGCTCTGGTTGCTACACTAGGGTGAATGATTAAATTGGGTGGGGACAGAGGCGG			
4981	T	A	A	CAGGGGCTCTGGTTGCTACATTAGGGTGAATGATTAAATTGGGTGGGGACAGAGGCGG			
				CTGGGAGTCATCCAGGCCTCTCCCCGCCTCTGTCCCCACCCAATTTAATCATTCACCCTA[GA]TGTAGCAACCAGAGCCCCTGGCTGCAGGCTCTGATATTTTTTA			
4981	IS	[GA]		GCTATCTCTTCCCCTCA	ctg15330	9	
5838	I		S	GCTTAGCCCGTAGTCTGCAGAAACTAGGTTTTCAGGTAAA			
5838	P	G	S	ATGACGTGGCAGACCGTTTTCAAATAGTATCTAAACTACA			
5838	P	A	S	CGCGCCGAGGTGTTTTCAAATAGTATCTAAACTACAA			

FIGURE 129B

5838	T	G	S	ATATTTGTAGTTTAGATACTATTTGAAAACGTTACCTGAAAACCTAGTTTCTGCAGACTACGGGCTAAGCGT			
5838	T	A	S	ATATTTGTAGTTTAGATACTATTTGAAAACATTACCTGAAAACCTAGTTTCTGCAGACTACGGGCTAAGCGT			
5838	IS	[GA]		ATTTTTAATTCTATAAAAATAAGTCCTTGAATATTTGTAGTTTAGATACTATTTGAAAAC[GA]TTACCTGAAAACCTAGTTTCTGCAGACTACGGGCTAAGCGTCTGG CACCAAATTTAGCTT	ctg12559	6	
5840	I		A	TCCCATCATTTGCTTAGGTCTGATCAATCTGCTCCACT			
5840	P	G	A	ATGACGTGGCAGACGCAATTTCTCAGTGATCCT			
5840	P	A	A	CGCGCCGAGGACAATTTCTCAGTGATCCTC			
5840	T	G	A	TGCAGAGGATCACTGAGAAATTGCGTGGAGCAGATTGATCAGACCTAAGCAAATGATGGGAGT			
5840	T	A	A	TGCAGAGGATCACTGAGAAATTGTGTGGAGCAGATTGATCAGACCTAAGCAAATGATGGGAGT			
5840	IS	[GA]		TCTAGAACCTTCACAGGCCACACTCCCATCATTTGCTTAGGTCTGATCAATCTGCTCCAC[GA]CAATTTCTCAGTGATCCTCTGCATCTCTGCCTACAAGGGCCTCC CTGACACCCAAGTTCA	ctg15907	6	
5954	I		S	GAACTGGGTCCTCAACCAGTGAACCTAGATATATACATGAGGAAATAAGC			
5954	P	T	S	CGCGCCGAGGAAACTCCTAAAGTGGGTATG			
5954	P	A	S	ATGACGTGGCAGACTAACTCCTAAAGTGGGTATGT			
5954	T	T	S	ACCAACATACCCACTTTAGGAGTTTCTTATTTCCTCATGTATATATCTAGGTTCACTGGTTGAGGACCCAGTTCCC			
5954	T	A	S	ACCAACATACCCACTTTAGGAGTTACTTATTTCCTCATGTATATATCTAGGTTCACTGGTTGAGGACCCAGTTCCC			
5954	IS	[TA]		GATTTTTTTGTTTGATTGTCCCCCACCCCCACCCCCACCAACATACCCACTTTAGGAGTT[TA]CTTATTTCCTCATGTATATATCTAGGTTCACTGGTTGAGGACCCA GTTCCCATCTTTGGA			
5957	I		S	AGGCGACAGAGTGAGACTCTCATCTAACAAAGAAAAAGCAT			
5957	P	C	S	ATGACGTGGCAGACGTGGGGACAAACCAC			
5957	P	G	S	CGCGCCGAGGCTGGGGACAAACCACA			
5957	T	C	S	CTTCTGTGGTTTGTCCCCACTGCTTTTTCTTTGTTAGATGAGAGTCTCACTCTGTCGCCTAG			
5957	T	G	S	CTTCTGTGGTTTGTCCCCAGTGCTTTTTCTTTGTTAGATGAGAGTCTCACTCTGTCGCCTAG			
5957	IS	[CG]		TGGTGGGAAGGGCCCCGTGAGCCCTCTGCAAGGCTTCTTTCCTTCTGTGGTTTGTCCCCA[CG]TGCTTTTTCTTTGTTAGATGAGAGTCTCACTCTGTCGCCTAG CCTGGAGTGCGGTAGCTC	ctg22fin3	22	
5960	I		S	TGGAAGGATTGCATGAGCCCAGGAATTCAAGACTAGC			
5960	P	A	S	CGCGCCGAGGTCTGGGCAACATGGC			
5960	P	C	S	ATGACGTGGCAGACGCTGGGCAACATGGY			
5960	T	A	S	TCTTGCCATGTTGCCCAGACTAGTCTTGAATTCCTGGGCTCATGCAATCCTTCCATC			
5960	T	C	S	TCTTGCCATGTTGCCCAGCCTAGTCTTGAATTCCTGGGCTCATGCAATCCTTCCATC			
5960	IS	[AC]		ATGTGACATCACACCTGACTAATTTTTTTGGTATAGACAGGGTCTTGCCATGTTGCCCAG[AC]CTAGTCTTGAATTCCTGGGCTCATGCAATCCTTCCATCTTGGTC TCTCAAAGTGTTGCGG	ctg22fin4	22	
5964	I		S	GAACCAAAAACAACTTCAGAAGAAACTCTTGAAGACTGCTCAGAT			
5964	P	T	S	CGCGCCGAGGAGTAACACCTGCCATG			
5964	P	C	S	ATGACGTGGCAGACGGTAACACCTGCCATG			
5964	T	T	S	TTTGCATGGCAGGTGTTACTTCTGAGCAGTCTTCAAGAGTTTCTTCTGAAGTTGTTTTTGGTTCCT			
5964	T	C	S	TTTGCATGGCAGGTGTTACCTCTGAGCAGTCTTCAAGAGTTTCTTCTGAAGTTGTTTTTGGTTCCT			
5964	IS	[TC]		TTCAAATACATCACCATTGGCCTCTTCTTTAGTTCTGGGGATTTGCATGGCAGGTGTTAC[TC]TCTGAGCAGTCTTCAAGAGTTTCTTCTGAAGTTGTTTTTGGTTC CTCTAATAAATCTTCT	ctg13980	1	MULTIPLE SHORT GENE NAMES
5968	I		A	CCAACACTGGGGCTCAAGCAATCTACCCACT			
5968	P	C	A	CGCGCCGAGGCTCAGCCTCCCCAAG			
5968	P	G	A	ATGACGTGGCAGACGTCAGCCTCCCCAA			
5968	T	C	A	AGCACTTGGGGAGGCTGAGGTGGGTAGATTGCTTGAGCCCCAGTGTTGGAG			
5968	T	G	A	AGCACTTGGGGAGGCTGACGTGGGTAGATTGCTTGAGCCCCAGTGTTGGAG			
5968	IS	[CG]		TGGAGTTTCATCATGTTGCCAGGCTGGTCTCCAACACTGGGGCTCAAGCAATCTACCCAC[CG]TCAGCCTCCCCAAGTGCTGGGATTACAGGCGTGAGCCACCAC GCCCACCTGGCCTTTGCT	ctg15665	20	
5969	I		S	TGGAAGGGCACCACCAACGGGCC			
5969	P	T	S	CGCGCCGAGGATAGACATAGGTTGGTGTAAAAA			
5969	P	A	S	ATGACGTGGCAGACTTAGACATAGGTTGGTGTAAAAA			
5969	T	T	S	CCAATTTTTACACCAACCTATGTCTATGCCCGTTGGTGGTGCCCTTCCACA			
5969	T	A	S	CCAATTTTTACACCAACCTATGTCTAAGCCCGTTGGTGGTGCCCTTCCACA			
5969	IS	[TA]		CCATGACTATGGGAGGTTAATTGTATTAAAGTCTCCAATTTTTACACCAACCTATGTCTA[TA]GCCCGTTGGTGGTGCCCTTCCACACTGACTCTGGACCAGACCAT GTGATTTGCTTTGGTT	ctg16537	20	
5972	I		A	GAAGTGTTACCTTCAGCATGCTGAGTTTTCTTATTCTTTTAAACAACGCT			
5972	P	G	A	ATGACGTGGCAGACGTTTCTGTTATCAGGCATCA			
5972	P	A	A	CGCGCCGAGGATTTCTGTTATCAGGCATCAT			
5972	T	G	A	ATGCATGATGCCTGATAACAGAAACGCGTTGTTTAAAAGAATAAGAAAACTCAGCATGCTGAAGGTAACACTTCAC			
5972	T	A	A	ATGCATGATGCCTGATAACAGAAATGCGTTGTTTAAAAGAATAAGAAAACTCAGCATGCTGAAGGTAACACTTCAC			
5972	IS	[GA]		GCAGAGCTTGTGAAGTGTTACCTTCAGCATGCTGAGTTTTCTTATTCTTTTAAACAACGC[GA]TTTCTGTTATCAGGCATCATGCATTAGTAAAGAGAGGAGGGCTG ATGTCAGGGCTCGGGG	ctg22fin4	22	
5974	I		A	GACACAGTTCAGCACAGTGCCTGCCACT			
5974	P	A	A	CGCGCCGAGGATTGCAGGTGTTTGATAAATG			
5974	P	G	A	ATGACGTGGCAGACGTTGCAGGTGTTTGATAAAT			
5974	T	A	A	TTCACATTTATCAAACACCTGCAATGTGGCAGGCACTGTGCTGAACTGTGTCTA			
5974	T	G	A	TTCACATTTATCAAACACCTGCAACGTGGCAGGCACTGTGCTGAACTGTGTCTA			
5974	IS	[AG]		AGGGGGAATCTTGAAGCTTAAATAATCTACATAGACACAGTTCAGCACAGTGCCTGCCAC[AG]TTGCAGGTGTTTGATAAATGTGAAGAAGTCCTTTCTCCTCACG GAGGTTATGGGATTTGC	ctg15665	20	
5976	I		S	CAACAGTACAAGTTATGAGACCCCTACCTCAAACTT			
5976	P	C	S	ATGACGTGGCAGACGTATGTATCTTAAAAGATCCTTCTTTT			
5976	P	T	S	CGCGCCGAGGATATGTATCTTAAAAGATCCTTCTTTT			
5976	T	C	S	GCTCAAAAGAAGGATCTTTTAAGATACATACAGTTTGAGGTAGGGGTCTCATAACTTGTACTGTTGAA			
5976	T	T	S	GCTCAAAAGAAGGATCTTTTAAGATACATATAGTTTGAGGTAGGGGTCTCATAACTTGTACTGTTGAA			
5976	IS	[CT]		AGCAAGCTCCAGGAATATATAAAGACATATGCTCAAAAGAAGGATCTTTTAAGATACATA[CT]AGTTTGAGGTAGGGGTCTCATAACTTGTACTGTTGAAATTAAGAT ATGTGTGGGTTAGAG	ctg13446	1	
5978	I		A	CTTTGGTGACAGACGGTGCTGGGCTC			
5978	P	T	A	CGCGCCGAGGTCCTTCCTGTTTTCCCA			
5978	P	G	A	ATGACGTGGCAGACGCCTTCCTGTTTTCCC			
5978	T	T	A	TTGGTGGGAAAACAGGAAGGAAGCCCAGCACCGTCTGTCACCAAAGCG			
5978	T	G	A	TTGGTGGGAAAACAGGAAGGCAGCCCAGCACCGTCTGTCACCAAAGCG			
5978	IS	[TG]		AAAATGAGCTCTCCTGCCCCTGCACCCCCGCCTCGCTTTGGTGACAGACGGTGCTGGGCT[TG]CCTTCCTGTTTTCCCACCAAGGCTCCTCTGTGCCCCCCACTG CTTCTGTCTCCTCCTCCC	ctg13516	6	
5981	I		S	CCCCACAAGCACCCACCCTGCCT			
5981	P	T	S	CGCGCCGAGGATATCCCCCTGGCC			
5981	P	C	S	ATGACGTGGCAGACGTATCCCCCTGGCC			
5981	T	T	S	GATGGGCCAGGGGGATATGGCAGGGTGGGTGCTTGTGGGGTC			
5981	T	C	S	GATGGGCCAGGGGGATACGGCAGGGTGGGTGCTTGTGGGGTC			
5981	IS	[TC]		GGCACTAGCTGTGTAGGTGGCAGCTGCAGAGCCAGGGGCAGTGGATGGGCCAGGGGGATA[TC]GGCAGGGTGGGTGCTTGTGGGGTCAAGGTAGAAGTGGTG AGTAATGGCCCCCCAAGGTTG	ctg22fin4	22	
5988	I		A	AAAACAATCGACCAGCCTTAGGAGGTGCC			
5988	P	A	A	CGCGCCGAGGAGATGATGCTCAGACACT			
5988	P	T	A	ATGACGTGGCAGACTGATGATGCTCAGACACT			
5988	T	A	A	GACCAGTGTCTGAGCATCATCTGCACCTCCTAAGGCTGGTCGATTGTTTTTT			
5988	T	T	A	GACCAGTGTCTGAGCATCATCAGCACCTCCTAAGGCTGGTCGATTGTTTTTT			
5988	IS	[AT]		CAAGAGCGAGACTGCATCTCAAAAAAGAAAAAAAAACAATCGACCAGCCTTAGGAGGTGC[AT]GATGATGCTCAGACACTGGTCTCCTTCCAAGGGTTAGGCACAG AGAGCGCTTCCAGTGTC			
5991	I		A	TGTTAAGTCCGGGATGTGTGGGAGCTTTTTAAGGAT			
5991	P	C	A	CGCGCCGAGGCTGATCATTGGCTCTGAG			
5991	P	G	A	ATGACGTGGCAGACGTGATCATTGGCTCTGAG			
5991	T	C	A	TGTCCTCAGAGCCAATGATCAGTCCTTAAAAAGCTCCCACACATCCCGGACTTAACAGA			

FIGURE 129B

5991	T	G	A	TGTCCTCAGAGCCAATGATCACTCCTTAAAAAGCTCCCACACATCCCGGACTTAACAGA			
5991	IS	[CG]		GGAGTCCCAGCCAGTTCTGGGAGTCTGTTAAGTCCGGGATGTGTGGGAGCTTTTTAAGGA[CG]TGATCATTGGCTCTGAGGACACTTCAACTAGTTAGCCTTCTA TCTTGAGGTATATAAACT	ctg15478	1	
4836	I		S	GCTACGTGGATGACCAGCTGTTCGTGTTCTATGATT			
4836	P	G	S	CGCGCCGAGGCATGAGAGTCGCCGT			
4836	P	C	S	ATGACGTGGCAGACGATGAGAGTCGCCGT			
4836	T	G	S	CCACACGGCGACTCTCATGATCATAGAACACGAACAGCTGGTCATCCACGTAGCCC			
4836	T	C	S	CCACACGGCGACTCTCATCATCATAGAACACGAACAGCTGGTCATCCACGTAGCCC			
4836	IS	[GC]		TCTGGCTTGAAATTCTACTGGAAACCCATGGAGTTCGGGGCTCCACACGGCGACTCTCAT[GC]ATCATAGAACACGAACAGCTGGTCATCCACGTAGCCCAAAGC TTCAAACAAGGAAAGACC	ctg15907	6	HFE
4837	I		A	CAGGAAGGTGAGGCCCCCTCTCCACT			
4837	P	G	A	ATGACGTGGCAGACGTACCCTTGCTGTGGTY			
4837	P	A	A	CGCGCCGAGGATACCCTTGCTGTGGTY			
4837	T	G	A	CACAACCACAGCAAGGGTACGTGGAGAGGGGGCCTCACCTTCCTGAG			
4837	T	A	A	CACAACCACAGCAAGGGTATGTGGAGAGGGGGCCTCACCTTCCTGAG			
4837	IS	[GA]		AAGATGCATGAAAAGATGAAAAGCTCTGACAACCTCAGGAAGGTGAGGCCCCCTCTCCAC[GA]TACCCTTGCTGTGGTTGTGATTTTCCATAATAGTCCAGAAGTC AACAGTGAACATGTGAT	ctg15907	6	
4840	I		A	GGTATCCCTGGAGTCGCAGGTGTCCCTT			
4840	P	G	A	ATGACGTGGCAGACGGTGTCGGAGGTGTT			
4840	P	A	A	CGCGCCGAGGAGTGTCGGAGGTGTTC			
4840	T	G	A	CCGGGAACACCTCCGACACCAGGGACACCTGCGACTCCAGGGATACCTC			
4840	T	A	A	CCGGGAACACCTCCGACACTAGGGACACCTGCGACTCCAGGGATACCTC			
4840	IS	[GA]		GGGGGCTTTCCCGGCTTGGTGTCGGAGTCGGAGGTATCCCTGGAGTCGCAGGTGTCCCT[GA]GTGTCGGAGGTGTTCCCGGAGTCGGAGGTGTCCCGGGAGT TGGCATTTCCCGTGAGCCTT	ctg15590	7	
4845	I		S	GGACATAGGAGTCCTTGGTAGAATCAACTTTCTTTAAATCAACACCAAAA			
4845	P	A	S	CGCGCCGAGGTACCACCTCCATGTTGAA			
4845	P	G	S	ATGACGTGGCAGACCACCACCTCCATGTTG			
4845	T	A	S	TTCTTTCAACATGGAGGTGGTATTTGGTGTTGATTTAAAGAAAGTTGATTCTACCAAGGACTCCTATGTCCTT			
4845	T	G	S	TTCTTTCAACATGGAGGTGGTGTTTGGTGTTGATTTAAAGAAAGTTGATTCTACCAAGGACTCCTATGTCCTT			
4845	IS	[AG]		AAGCCATAAGAATTGCTTCCCTGAGATCCTTAAAAAAGCTTCTTTCAACATGGAGGTGGT[AG]TTTGGTGTTGATTTAAAGAAAGTTGATTCTACCAAGGACTCCTA TGTCCTTGTCAGCAAA	ctg13414	X	MAGEB3
4879	I		S	ACAAGTATTTATGGAGTGCACTCTGTACTAGACACAATAGAAT			
4879	P	C	S	ATGACGTGGCAGACGACTACAATAGAAGGGAAAAGAT			
4879	P	T	S	CGCGCCGAGGAACTACAATAGAAGGGAAAAGATA			
4879	T	C	S	ACAATATCTTTTCCCTTCTATTGTAGTCTTCTATTGTGTCTAGTACAGAGTGCACTCCATAAATACTTGTAA			
4879	T	T	S	ACAATATCTTTTCCCTTCTATTGTAGTTTTCTATTGTGTCTAGTACAGAGTGCACTCCATAAATACTTGTAA			
4879	IS	[CT]		GGGACAGAAGCAAGCACTGGGATACTTGTTTTCACAATATCTTTTCCCTTCTATTGTAGT[CT]TTCTATTGTGTCTAGTACAGAGTGCACTCCATAAATACTTGTAAA TTTGTACATGTTATG	ctg15907	6	
4888	I		A	GGCATGAAGAGGCTCCAAGTCTCAGGAGCT			
4888	P	G	A	ATGACGTGGCAGACGGGTCATTGAAGATGTGTT			
4888	P	A	A	CGCGCCGAGGAGGTCATTGAAGATGTGTTATT			
4888	T	G	A	ATAAAATAACACATCTTCAATGACCCGCTCCTGAGACTTGGAGCCTCTTCATGCCCC			
4888	T	A	A	ATAAAATAACACATCTTCAATGACCTGCTCCTGAGACTTGGAGCCTCTTCATGCCCC			
4888	IS	[GA]		TCACAAACTAGAAACCCATAGGACTTCCGGGGGCATGAAGAGGCTCCAAGTCTCAGGAGC[GA]GGTCATTGAAGATGTGTTATTTTATCATTTTCATGATGAGATA CAGCCTGAAAGCAGATC	ctg14747	2	
4894	I		S	GCCCTAAGAATAAACAGGAGGTTTGCTATGTTGAAAA			
4894	P	A	S	CGCGCCGAGGTTGAAAATGGGTGGAGTTC			
4894	P	G	S	ATGACGTGGCAGACCTGAAAATGGGTGGAGTT			
4894	T	A	S	ATCTGAACTCCACCCATTTTCAATTTCAACATAGCAAACCTCCTGTTTATTCTTAGGGCAA			
4894	T	G	S	ATCTGAACTCCACCCATTTTCAGTTTCAACATAGCAAACCTCCTGTTTATTCTTAGGGCAA			
4894	IS	[AG]		TGTTCTTCAACAGGTGAAAAGCATAATAAAACATGCTCATCTGAACTCCACCCATTTTCA[AG]TTTCAACATAGCAAACCTCCTGTTTATTCTTAGGGCAAATTCAAA ATTGTACATATTAGG			
4898	I		A	CTAAAACATTCCCCATATTCCCCACCCAGCACTCA			
4898	P	C	A	ATGACGTGGCAGACCACCTCTTTAGCTCTTCAG			
4898	P	T	A	CGCGCCGAGGTACCTCTTTAGCTCTTCAGG			
4898	T	C	A	GAGACCTGAAGAGCTAAAGAGGTGGAGTGCTGGGTGGGGAATATGGGGAATGTTTTAGGG			
4898	T	T	A	GAGACCTGAAGAGCTAAAGAGGTAGAGTGCTGGGTGGGGAATATGGGGAATGTTTTAGGG			
4898	IS	[CT]		CATCTCTGGGCCATTGTCAATGTTCCCTAAAACATTCCCCATATTCCCCACCCAGCACTC[CT]ACCTCTTTAGCTCTTCAGGTCTCAGCTCAGAAGTCACTTCTTCC AGGAAGCCTTCCTTGA	ctg15972	16	
4922	I		S	GAAGGAGTCACCCTGGCCCTCCTCCT			
4922	P	T	S	CGCGCCGAGGACCTGACTTACTTGATCCTA			
4922	P	C	S	ATGACGTGGCAGAGCGCCTGACTTACTTGATCC			
4922	T	T	S	ACTTTAGGATCAAGTAAGTCAGGTGGAGGAGGGCCAGGGTGACTCCTTCCC			
4922	T	C	S	ACTTTAGGATCAAGTAAGTCAGGCGGAGGAGGGCCAGGGTGACTCCTTCCC			
4922	IS	[TC]		ATTGTACAAATTGACAATGCCAAGCTGGCTGCCGATGACTTTAGGATCAAGTAAGTCAGG[TC]GGAGGAGGGCCAGGGTGACTCCTTCCCCACCCTCCATCCCAA TGCCCAAATACTTGTTGA	ctg17036	17	
4932	I		S	CCCCAAGATGCATCTTGCCCACAGCAT			
4932	P	G	S	ATGACGTGGCAGACCCCTCAAACCTGCTG			
4932	P	T	S	CGCGCCGAGGACCTCAAACCTGCTGC			
4932	T	G	S	GTGAGCAGCAGGTTTGAGGGTGCTGTGGGCAAGATGCATCTTGGGGTG			
4932	T	T	S	GTGAGCAGCAGGTTTGAGGTTGCTGTGGGCAAGATGCATCTTGGGGTG			
4932	IS	[GT]		GGGGACATGTCTGGGAGGTCAGGTGGATGTTTACCAATGAGGTGAGCAGCAGGTTTGAGG[GT]TGCTGTGGGCAAGATGCATCTTGGGGTGCTGACGGGCAGT CTGGGCAGCTGAAGGTGTGA	MULTIPLE	MULTIPLE	
4934	I		A	TCAGTTTCCACATGCATAATTTTGGCCTTGACAGAGAACTCA			
4934	P	C	A	ATGACGTGGCAGACCGAGATGTTCCCTGC			
4934	P	T	A	CGCGCCGAGGTGAGATGTTCCCTGCC			
4934	T	C	A	TGCAGGCAGGGAACATCTCGGAGTTCTCTGTCAAGGCCAAAATTATGCATGTGGAAAGTGATC			
4934	T	T	A	TGCAGGCAGGGAACATCTCAGAGTTCTCTGTCAAGGCCAAAATTATGCATGTGGAAAGTGATC			
4934	IS	[CT]		TCAATCAAACGTTTTTTGATCACTTTCCACATGCATAATTTTGGCCTTGACAGAGAACTC[CT]GAGATGTTCCCTGCCTGCAAAGAACCTTCAGTCTGGTTGGGGCA TTGAGAAATAGCCTCA	ctg12369	1	
4938	I		A	TCTCTCCCATTGGAATGCGAGTTCTACCAGC			
4938	P	G	A	ATGACGTGGCAGACGAACTGCTTGTTCATTCCT			
4938	P	T	A	CGCGCCGAGGTAACTGCTTGTTCATTCCTG			
4938	T	G	A	GATTCAGGAATGAACAAGCAGTTCCTGGTAGAACTCGCATTCCAATGGGAGAGACA			
4938	T	T	A	GATTCAGGAATGAACAAGCAGTTACTGGTAGAACTCGCATTCCAATGGGAGAGACA			
4938	IS	[GT]		TTTAAGAATTTAAAAATGTGTTTATTATTGTCTCTCCCATTGGAATGCGAGTTCTACCAG[GT]AACTGCTTGTTCATTCCTGAATCTCCAGCCTGGAGAACAGGGCC AGCACATAGTAGATTC	ctg13517	11	
4942	I		A	GTAGGCCAGGAGCCTGTCGGGCA			
4942	P	T	A	CGCGCCGAGGTGGGCAGAGGCTC			
4942	P	C	A	ATGACGTGGCAGACCGGGCAGAGGCTC			
4942	T	T	A	GCCTGAGCCTCTGCCCAGCCCGACAGGCTCCTGGCCTACCA			
4942	T	C	A	GCCTGAGCCTCTGCCCGGCCCGACAGGCTCCTGGCCTACCA			
4942	IS	[TC]		CCCAGGTGCCTCTGCTCTCTTATTAGCTAGGGTAGGTGGTAGGCCAGGAGCCTGTCGGGC[TC]GGGCAGAGGCTCAGGCCCATGCCTCTCCTTGGTCCCCAGTC TGTGGAAAACTGCATGTGT	ctg12369	1	
4966	I		S	AGAATGCAGAAGAGTATGTAAAACTGCCTTGTTCTACAGCAAAGAATTCC			
4966	P	C	S	ATGACGTGGCAGACGTTCCCATCAGATGACTAC			
4966	P	A	S	CGCGCCGAGGTTTCCCATCAGATGACTACT			
4966	T	C	S	ATGAAGTAGTCATCTGATGGGAACGAATTCTTTGCTGTAGAACAAGGCAGTTTTACATACTCTTCTGCATTCTCA			
4966	T	A	S	ATGAAGTAGTCATCTGATGGGAAAGAATTCTTTGCTGTAGAACAAGGCAGTTTTACATACTCTTCTGCATTCTCA			

FIGURE 129B

				GGTAGCATTTGCTGCTCTAGATAATGATTAAGAGTATATGAAGTAGTCATCTGATGGGAA[CA]GAATTCTTTGCTGTAGAACAAGGCAGTTTTACATACTCTTCTGC			
4966	IS	[CA]		ATTCTCAGCTGTAAAG	ctg15665	20	
4969	I		S	GGGGCAGGGTGCAGTGTCTCATGTCTT			
4969	P	C	S	ATGACGTGGCAGACGTAATCCCAGCACTTTGG			
4969	P	T	S	CGCGCCGAGGATAATCCCAGCACTTTGG			
4969	T	C	S	CCTCCCAAAGTGCTGGGATTACAGACATGAGACACTGCACCCTGCCCCAT			
4969	T	T	S	CCTCCCAAAGTGCTGGGATTATAGACATGAGACACTGCACCCTGCCCCAT			
				TGGTCTTGAATTCCTGACCTTGTGATCCACCCGCCTCGGCCTCCCAAAGTGCTGGGATTA[CT]AGACATGAGACACTGCACCCTGCCCCATTCCTTTTAATCTCCC			
4969	IS	[CT]		TTGGAATTAGCTGTTTG	ctg17441	9	
4997	I		S	GGTGACCGAGGAACTATACCCACTTGGTTTTGTCACA			
4997	P	A	S	CGCGCCGAGGTGAGATGGTTCAAAGTGAG			
4997	P	G	S	ATGACGTGGCAGACCGAGATGGTTCAAAGTGAG			
4997	T	A	S	TTGGCTCACTTTGAACCATCTCAGTGACAAAACCAAGTGGGTATAGTTCCTCGGTCACCTC			
4997	T	G	S	TTGGCTCACTTTGAACCATCTCGGTGACAAAACCAAGTGGGTATAGTTCCTCGGTCACCTC			
				AAGATCCTTCTATGCCAGTTGCACTCAACATTGGCAAATTGGCTCACTTTGAACCATCTC[AG]GTGACAAAACCAAGTGGGTATAGTTCCTCGGTCACCTCCACAAT			
4997	IS	[AG]		CCAGATGGAATCCTTG	ctg12824	13	
5108	I		A	GCGGTGCTACTGGTATCTCCTGGGTCCA			
5108	P	C	A	ATGACGTGGCAGACCGGGATGCTGCTAAAC			
5108	P	T	A	CGCGCCGAGGTGGGATGCTGCTAAAC			
5108	T	C	A	GGAGGTTTAGCAGCATCCCGGGACCCAGGAGATACCAGTAGCACCGCCT			
5108	T	T	A	GGAGGTTTAGCAGCATCCCAGGACCCAGGAGATACCAGTAGCACCGCCT			
				TGGAGACATTTTCAGTTGCCACAACTGGGGGAGGCGGTGCTACTGGTATCTCCTGGGTCC[CT]GGGATGCTGCTAAACCTCCCACCGTGCACACGGCAGCCCCA			
5108	IS	[CT]		CCACAACCATCTTCCAGCT	ctg16114	X	
5121	I		S	CCCAAGCCCAACCCCCAAACCTCTGT			
5121	P	G	S	CGCGCCGAGGCTTCCAATCCCTGGTAG			
5121	P	C	S	ATGACGTGGCAGACGTTCCAATCCCTGGTAG			
5121	T	G	S	GGAGCTACCAGGGATTGGAAGCAGAGGTTTGGGGGTTGGGCTTGGGAG			
5121	T	C	S	GGAGCTACCAGGGATTGGAACCAGAGGTTTGGGGGTTGGGCTTGGGAG			
				CCCTGGGTTGTGGAAATCAGTGGTCATGCCTGTCTCTCAGGGAGCTACCAGGGATTGGAA[GC]CAGAGGTTTGGGGGTTGGGCTTGGGAGAAAAAACAAGTCAA			
5121	IS	[GC]		GACCTGAACCCCATTTCTG	ctg16574	1	
5205	I		S	GAAGGAAGAGAAGAAGGAAGAGATGAAAATCATCTGGTTTTCAGTGTTCT			
5205	P	C	S	ATGACGTGGCAGACGTACTTGACTATATCACACCTC			
5205	P	T	S	CGCGCCGAGGATACTTGACTATATCACACCTCA			
5205	T	C	S	ATGTTGAGGTGTGATATAGTCAAGTACGAACACTGAAAACCAGATGATTTTCATCTCTTCCTTCTTCTCTTCCTTCCT			
5205	T	T	S	ATGTTGAGGTGTGATATAGTCAAGTATGAACACTGAAAACCAGATGATTTTCATCTCTTCCTTCTTCTCTTCCTTCCT			
				GCAGTTTTAGGGGCAAGACTCTGATCACAGGACTATGTTGAGGTGTGATATAGTCAAGTA[CT]GAACACTGAAAACCAGATGATTTTCATCTCTTCCTTCTTCTCTT			
5205	IS	[CT]		CCTTCCTTACCCTCAT	ctg15064	7	
5207	I		S	CAATTTTCATGACCATTCTGAATAAAACACATGACTACTATAGTAGAGAACTTAA			
5207	P	A	S	CGCGCCGAGGTTGGATGAAATTTCTAATCACAC			
5207	P	G	S	ATGACGTGGCAGACCTGGATGAAATTTCTAATCACAC			
5207	T	A	S	GTGTGTGTGATTAGAAATTTCATCCAATAAGTTCTCTACTATAGTAGTCATGTGTTTTATTCAGAATGGTCATGAAAATTGAA			
5207	T	G	S	GTGTGTGTGATTAGAAATTTCATCCAGTAAGTTCTCTACTATAGTAGTCATGTGTTTTATTCAGAATGGTCATGAAAATTGAA			
				TTTTGCTATGATTTTTGACTGAAGGTGAAGGGAAGTGTGTGTGATTAGAAATTTCATCCA[AG]TAAGTTCTCTACTATAGTAGTCATGTGTTTTATTCAGAATGGTCA			
5207	IS	[AG]		TGAAAATTGAACTTC	ctg13284	10	
5209	I		S	AGGGCACAACCGACCCAATCAAGGTGAT			
5209	P	T	S	CGCGCCGAGGACCTCCCTTGTACCC			
5209	P	C	S	ATGACGTGGCAGACGCCTCCCTTGTACCC			
5209	T	T	S	AAGTGGGTACAAGGGAGGTTCACCTTGATTGGGTCGGTTGTGCCCTCA			
5209	T	C	S	AAGTGGGTACAAGGGAGGCTCACCTTGATTGGGTCGGTTGTGCCCTCA			
				CATATGCAAAAGATAGAGCTGTCAGGCCCTCAGGGTGGGCTGAAGTGGGTACAAGGGAGG[TC]TCACCTTGATTGGGTCGGTTGTGCCCTCAGCACAGGTGAGG			
5209	IS	[TC]		GGTTGGTGGAGGCTGAAAG	ctg15907	6	
5211	I		A	GCCAGGCCACAACCTGAAAGCAGACATGT			
5211	P	A	A	CGCGCCGAGGATCTCATTGCCCACCG			
5211	P	C	A	ATGACGTGGCAGACCTCTCATTGCCCACC			
5211	T	A	A	AAGCCGGTGGGCAATGAGATCATGTCTGCTTTCAGGTTGTGGCCTGGCCT			
5211	T	C	A	AAGCCGGTGGGCAATGAGAGCATGTCTGCTTTCAGGTTGTGGCCTGGCCT			
				CTATGGCAGAGAGAACCCAACATGATCAGCAGGCCAGGCCACAACCTGAAAGCAGACATG[AC]TCTCATTGCCCACCGGCTTCTCTGGTGACGTGGGAATGCTCA			
5211	IS	[AC]		GAGCTGCAGCAGCACTGG	ctg15907	6	
5223	I		A	GTGGGATGGTGTGAGTAGAGACTGATCTCTTCAGTCACT			
5223	P	A	A	CGCGCCGAGGATAACTAGTTGCCTACAACC			
5223	P	G	A	ATGACGTGGCAGACGTAACTAGTTGCCTACAACC			
5223	T	A	A	AGGAGGTTGTAGGCAACTAGTTATGTGACTGAAGAGATCAGTCTCTACTCACACCATCCCACCC			
5223	T	G	A	AGGAGGTTGTAGGCAACTAGTTACGTGACTGAAGAGATCAGTCTCTACTCACACCATCCCACCC			
				AGTGAAGCCCTGGGTTTGGGGGGTGGGATGGTGTGAGTAGAGACTGATCTCTTCAGTCAC[AG]TAACTAGTTGCCTACAACCTCCTTAAGAGAAGGAAGATCTAA			
5223	IS	[AG]		TAGCCTCTCTCAGATGCC	ctg13740	5	
5251	I		A	GCTCCCCCTCCACCACCTCCGAT			
5251	P	G	A	ATGACGTGGCAGACGCCACACGTGATCC			
5251	P	A	A	CGCGCCGAGGACCACACGTGATCCC			
5251	T	G	A	AGAAGGGATCACGTGTGGCTCGGAGGTGGTGGAGGGGGAGCAG			
5251	T	A	A	AGAAGGGATCACGTGTGGTTCGGAGGTGGTGGAGGGGGAGCAG			
				TCGGCAAGGGCTTCCCACACCTCTTGGGCACCTGGGCTGCTCCCCCTCCACCACCTCCGA[GA]CCACACGTGATCCCTTCTCTCAAGCAGGTGCTACATCCTAGA			
5251	IS	[GA]		GAACGACACAGTCCAGTG	ctg15665	20	
5256	I		A	GGCACCGGGTCCTCACCTTCACGAT			
5256	P	A	A	CGCGCCGAGGAAAAGGCCCCACAGC			
5256	P	G	A	ATGACGTGGCAGACGAAAGGCCCCACAG			
5256	T	A	A	ACGTGCTGTGGGGCCTTTTCGTGAAGGTGAGGACCCGGTGCCCC			
5256	T	G	A	ACGTGCTGTGGGGCCTTTCTCGTGAAGGTGAGGACCCGGTGCCCC			
				GTGCGGCTGCAGAGTCAGATGGGGCGGGGATTTCGGGGCACCGGGTCCTCACCTTCACGA[AG]AAAGGCCCCACAGCACGTCCCCACTACCCGACGACTCACT			
5256	IS	[AG]		CTTCGTGGCTTCTCTCTCCT			
5332	I		S	CGTGGCATTGCTGAAAACCCACGCACCT			
5332	P	T	S	CGCGCCGAGGAGTGGCATGACTCACTY			
5332	P	C	S	ATGACGTGGCAGACGGTGGCATGACTCACTY			
5332	T	T	S	GGGCAGTGAGTCATGCCACTGGTGCGTGGGTTTTCAGCAATGCCACGTG			
5332	T	C	S	GGGCAGTGAGTCATGCCACCGGTGCGTGGGTTTTCAGCAATGCCACGTG			
				GGCCATTGCAGACATCCTCTTTGTTCTTACTCTCCCATTCTGGGCAGTGAGTCATGCCAC[TC]GGTGCGTGGGTTTTCAGCAATGCCACGTGCAAGTTGCTAAAAG			
5332	IS	[TC]		GCATCTATGCCATCAAC	ctg13516	6	CCR6
5338	I		S	CCTCTTCTGGAGCAGACCTGTCCCTCCAAAAGT			
5338	P	C	S	ATGACGTGGCAGACGACTGGCTTACAAATTTTCG			
5338	P	T	S	CGCGCCGAGGAACTGGCTTACAAATTTTCG			
5338	T	C	S	TGGACGAAAATTTGTAAGCCAGTTCTTTTGGAGGGACAGGTCTGCTCCAGAAGAGGGC			
5338	T	T	S	TGGACGAAAATTTGTAAGCCAGTTCTTTTGGAGGGACAGGTCTGCTCCAGAAGAGGGC			
				TGACTGTGGCCCTGGACTTTGCTGTGCTCGTCATTTTTGGACGAAAATTTGTAAGCCAGT[CT]CTTTTGGAGGGACAGGTCTGCTCCAGAAGAGGGCATAAAGACA			
5338	IS	[CT]		CTGCTCAAGCTCCAGAA	ctg13934	8	DKK4
5366	I		S	GACGGTCAAGTCCTTCCTCAGCAGCACTCT			
5366	P	T	S	CGCGCCGAGGAAGAGGAAACCCAGCA			
5366	P	C	S	ATGACGTGGCAGACGAGAGGAAACCCAGCA			
5366	T	T	S	TTCTTGCTGGGTTTCCTCTTGAGTGCTGCTGAGGAAGGACTTGACCGTCAG			
5366	T	C	S	TTCTTGCTGGGTTTCCTCTCGAGTGCTGCTGAGGAAGGACTTGACCGTCAG			

FIGURE 129B

				TCCACTCAGACTTCCAAATGAGGCTTCTCCAGAATTGATTTTTCTTGCTGGGTTTCCTCT[TC]GAGTGCTGCTGAGGAAGGACTTGACCGTCAGGATGGAGAGGG		
5366	IS	[TC]		GCAATGCTGCAGCTTGGC	ctg15330	9
5843	I		S	CTTTTCTTCCTTTAGTGTCTGAAATGCCCTGTCTATAGGGCT		
5843	P	T	S	CGCGCCGAGGAGTTAGAAGATGGTCCACC		
5843	P	C	S	ATGACGTGGCAGACGGTTAGAAGATGGTCCAC		
5843	T	T	S	ATAGGGTGGACCATCTTCTAACTGCCCTATAGACAGGGCATTTCAGACACTAAAGGAAGAAAAGGA		
5843	T	C	S	ATAGGGTGGACCATCTTCTAACCGCCCTATAGACAGGGCATTTCAGACACTAAAGGAAGAAAAGGA		
				AACTCAGAAATAATGATTTCCTCTCATTTTCCCTATTAATAGGGTGGACCATCTTCTAAC[TC]GCCCTATAGACAGGGCATTTCAGACACTAAAGGAAGAAAAGGAA		
5843	IS	[TC]		TATACAGTAGTACTGA	ctg15907	6
5849	I		A	AGAATAGGAGCTTTCTTCCCACACAGAAGCATT		
5849	P	C	A	CGCGCCGAGGCAATTTAGACAACTATCCACAGA		
5849	P	G	A	ATGACGTGGCAGACGAATTTAGACAACTATCCACAGA		
5849	T	C	A	CTCATCTGTGGATAGTTGTCTAAATTGATGCTTCTGTGTGGGAAGAAAGCTCCTATTCTAC		
5849	T	G	A	CTCATCTGTGGATAGTTGTCTAAATTCATGCTTCTGTGTGGGAAGAAAGCTCCTATTCTAC		
				TATGAGAGAAAGGCATCAGCAAAATAGTAGAATAGGAGCTTTCTTCCCACACAGAAGCAT[CG]AATTTAGACAACTATCCACAGATGAGACAATACCATTGTGGGAG		
5849	IS	[CG]		TCCAGGAGTCCAGCAG	ctg15907	6
5860	I		A	CCCAGGGCTTCCAAGGCCAAGCTT		
5860	P	G	A	ATGACGTGGCAGACGAGCTGAGCTGAGCT		
5860	P	A	A	CGCGCCGAGGAAGCTGAGCTGAGCT		
5860	T	G	A	GCTCAGCTCAGCTCAGCTCAGCTTGGCCTTGGAAGCCCTGGGTG		
5860	T	A	A	GCTCAGCTCAGCTCAGCTTAGCTTGGCCTTGGAAGCCCTGGGTG		
				GTTCCAAAATTTGAGCTCCAGTTGCTCCCTACCCGCACCCAGGGCTTCCAAGGCCAAGCT[GA]AGCTGAGCTGAGCTGAGCTCTGGTCCCCTCCCATAAAGCCTG		
5860	IS	[GA]		TCTGCGACTCTCAAGGGC	ctg14391	11
5953	I		S	ACACTTTTTTAAGAGCAATTTTAGGTTTATAGCAAAAATGAGCAGAAAC		
5953	P	C	S	ATGACGTGGCAGACGTAGAGAGAATTCCAATATACCC		
5953	P	A	S	CGCGCCGAGGTTAGAGAGAATTCCAATATACCC		
5953	T	C	S	AGGAGGGTATATTGGAATTCTCTCTACTTTCTGCTCATTTTTGCTATAAACCTAAAATTGCTCTTAAAAAAGTGTGT		
5953	T	A	S	AGGAGGGTATATTGGAATTCTCTCTAATTTCTGCTCATTTTTGCTATAAACCTAAAATTGCTCTTAAAAAAGTGTGT		
				GAAAGGGGAGCTTGCGGAAGGAAAGGGAGAAGGGAGGAGGGTATATTGGAATTCTCTCTA[CA]TTTCTGCTCATTTTTGCTATAAACCTAAAATTGCTCTTAAAAA		
5953	IS	[CA]		AGTGTGTTAATTTTTAA	ctg12581	4
5955	I		A	TCCTCCAAACTTTCAAATGGTTTTGGAAGCATTACATTGTCTACGA		
5955	P	T	A	CGCGCCGAGGTGAAATCCCTTTCTACTTGAG		
5955	P	C	A	ATGACGTGGCAGACCGAAATCCCTTTCTACTTGA		
5955	T	T	A	ATATCTCAAGTAGAAAGGGATTTCACGTAGACAATGTAATGCTTCCAAAACCATTTGAAAGTTTGGAGGAGT		
5955	T	C	A	ATATCTCAAGTAGAAAGGGATTTCGCGTAGACAATGTAATGCTTCCAAAACCATTTGAAAGTTTGGAGGAGT		
				TTCCTTGACCTTCACTCCTCCAAACTTTCAAATGGTTTTGGAAGCATTACATTGTCTACG[TC]GAAATCCCTTTCTACTTGAGATATTCACAATGAGTTCTGGGCATG		
5955	IS	[TC]		TCCTGTGCTTGTGTA	ctg14189	19
5961	I		S	GGTCCTTTAAAAGAGTGCCCCACCCCCAACT		
5961	P	C	S	ATGACGTGGCAGACGCTGTCCTCTTGCCT		
5961	P	T	S	CGCGCCGAGGACTGTCCTCTTGCCTT		
5961	T	C	S	TGCCAAGGCAAGAGGACAGCGTTGGGGGTGGGGCACTCTTTTAAAGGACCCC		
5961	T	T	S	TGCCAAGGCAAGAGGACAGTGTTGGGGGTGGGGCACTCTTTTAAAGGACCCC		
				TCTTTGTCCAAAGTACTCAGACAGGTCCTGCCAAGAGGTCCTGCCAAGGCAAGAGGACAG[CT]GTTGGGGGTGGGGCACTCTTTTAAAGGACCCCATCAAAGGAT		
5961	IS	[CT]		CTCCCCTCCTCCCCCAAA	ctg15907	6
5966	I		S	GATCCCAGCATTCTTTTTGGAATATACCTGGTACTCTACCCAA		
5966	P	A	S	CGCGCCGAGGTTGGATTCTTCTTACCTCAGA		
5966	P	G	S	ATGACGTGGCAGACCTGGATTCTTCTTACCTCAG		
5966	T	A	S	TTCCTCTGAGGTAAGAAGAATCCAATGGGTAGAGTACCAGGTATATTCCAAAAAGAATGCTGGGATCCT		
5966	T	G	S	TTCCTCTGAGGTAAGAAGAATCCAGTGGGTAGAGTACCAGGTATATTCCAAAAAGAATGCTGGGATCCT		
				CCACATTTTTAAAATGTTCTCTCCTGAGTTCAGAACTTCCTCTGAGGTAAGAAGAATCCA[AG]TGGGTAGAGTACCAGGTATATTCCAAAAAGAATGCTGGGATCCT		
5966	IS	[AG]		GATTTAGCAATGTGAT	ctg13446	1
5970	I		A	AGACCACCCAACCCGACCCCAACTT		
5970	P	C	A	ATGACGTGGCAGACCCAGCTCCTCCTCTC		
5970	P	A	A	CGCGCCGAGGACAGCTCCTCCTCTCT		
5970	T	C	A	ACACAGAGAGGAGGAGCTGGAGTTGGGGTCGGGTTGGGTGGTCTGC		
5970	T	A	A	ACACAGAGAGGAGGAGCTGTAGTTGGGGTCGGGTTGGGTGGTCTGC		
				AGATGGGGGCAGCGTTGACAAGGTGGGAAGCCATGCAGACCACCCAACCCGACCCCAACT[CA]CAGCTCCTCCTCTCTGTGTCTTCAGTCAGCTCAGGGCCTCA		
5970	IS	[CA]		CACAGGGCTGGACACTTGG	ctg22fin4	22
5983	I		S	TCTTGCCCTTTCCCTCTCTTCTGTAGTCCAAGATAACACT		
5983	P	T	S	CGCGCCGAGGATGCAATGTAATCTCTACTTAGAA		
5983	P	C	S	ATGACGTGGCAGACGTGCAATGTAATCTCTACTTAGA		
5983	T	T	S	TCTTTTCTAAGTAGAGATTACATTGCATGTGTTATCTTGGACTACAGAAGAGAGGGAAAGGGCAAGACT		
5983	T	C	S	TCTTTTCTAAGTAGAGATTACATTGCACGTGTTATCTTGGACTACAGAAGAGAGGGAAAGGGCAAGACT		
				TTTATCCAGAAGAGCAGATGGCTAGAATCGAATTCTTTTCTAAGTAGAGATTACATTGCA[TC]GTGTTATCTTGGACTACAGAAGAGAGGGAAAGGGCAAGACTGG		
5983	IS	[TC]		AGCCATTGAAGGTATAA	ctg13446	1
5987	I		A	GGACGGGTCCGCAGGGAAGCAT		
5987	P	G	A	ATGACGTGGCAGACGGGGTAGCCTCTCAG		
5987	P	A	A	CGCGCCGAGGAGGGTAGCCTCTCAGA		
5987	T	G	A	AACCTCTGAGAGGCTACCCCTGCTTCCCTGCGGACCCGTCCCT		
5987	T	A	A	AACCTCTGAGAGGCTACCCCTTGCTTCCCTGCGGACCCGTCCCT		
				GGGGGGATGGTGCAGTGCCCAAAGGCGCAGCTGGGGCAGGGACGGGTCCGCAGGGAAGCA[GA]GGGTAGCCTCTCAGAGGTTTTGTGTGCTCTCTGTTCCTCA		
5987	IS	[GA]		ACCATTGGTTTAAAATTTTA	ctg22fin10	22
6184	I		A	CAAATCCAGCAATATGTTGCTGATTAGATGTTGTGATAAAAACAA		
6184	P	C	A	ATGACGTGGCAGACCAGCACCAAAGAAACAAAC		
6184	P	T	A	CGCGCCGAGGTAGCACCAAAGAAACAAACC		
6184	T	C	A	CAATGGTTTGTTTCTTTGGTGCTGTGTTTTTATCACAACATCTAATCAGCAACATATTGCTGGATTTGTT		
6184	T	T	A	CAATGGTTTGTTTCTTTGGTGCTATGTTTTTATCACAACATCTAATCAGCAACATATTGCTGGATTTGTT		
				TCATCATCTTATCTAACAAATCCAGCAATATGTTGCTGATTAGATGTTGTGATAAAAACA[CT]AGCACCAAAGAAACAAACCATTGGTGGAACTACTTATTCGTGACA		
6184	IS	[CT]		TATAGAAAAGCATCT	ctg18037	7
6214	I		S	TGGCCAGAGGCCAGGCCTCTCAGA		
6214	P	A	S	CGCGCCGAGGTCCCTCTCAGGTCCA		
6214	P	G	S	ATGACGTGGCAGACCCCCTCTCAGGTCCA		
6214	T	A	S	TACTTGGACCTGAGAGGGACTGAGAGGCCTGGCCTCTGGCCATG		
6214	T	G	S	TACTTGGACCTGAGAGGGGCTGAGAGGCCTGGCCTCTGGCCATG		
				AAAGTCATGGCCAGCTTTGATGTCTAGGGGTAAAGGTCTCTGTACTTGGACCTGAGAGGG[AG]CTGAGAGGCCTGGCCTCTGGCCATGTGTATTTGGGATGGCA		
6214	IS	[AG]		GCCTGGCTCACAGAGGAAC	ctg15842	19
6215	I		S	GGAGGCTGAGCAAATATGGCCCATGTGACAT		
6215	P	G	S	CGCGCCGAGGCAGAGTGACAGAGCCT		
6215	P	C	S	ATGACGTGGCAGACGAGAGTGACAGAGCCTC		
6215	T	G	S	CAGTGAGGCTCTGTCACTCTGTGTCACATGGGCCATATTTGCTCAGCCTCCCC		
6215	T	C	S	CAGTGAGGCTCTGTCACTCTCTGTCACATGGGCCATATTTGCTCAGCCTCCCC		
				CAGTTGCTCACTGTATTTTCAATGTTTCCTCTCATTTCTCCAGTGAGGCTCTGTCACTCT[GC]TGTCACATGGGCCATATTTGCTCAGCCTCCCCTCTATCCTGGAA		
6215	IS	[GC]		GATCTCCAAGGCCAGG	ctg19262	19
6224	I		S	GCGTATTTTCCGTGGCGTACACACACGTGAA		
6224	P	A	S	CGCGCCGAGGTGCGTTAGTGTTGTGTTC		
6224	P	G	S	ATGACGTGGCAGACCGCGTTAGTGTTGTGTT		
6224	T	A	S	CTTAGAACACAACACTAACGCATCACGTGTGTGTACGCCACGGAAAATACGCCT		
6224	T	G	S	CTTAGAACACAACACTAACGCGTCACGTGTGTGTACGCCACGGAAAATACGCCT		

FIGURE 129B

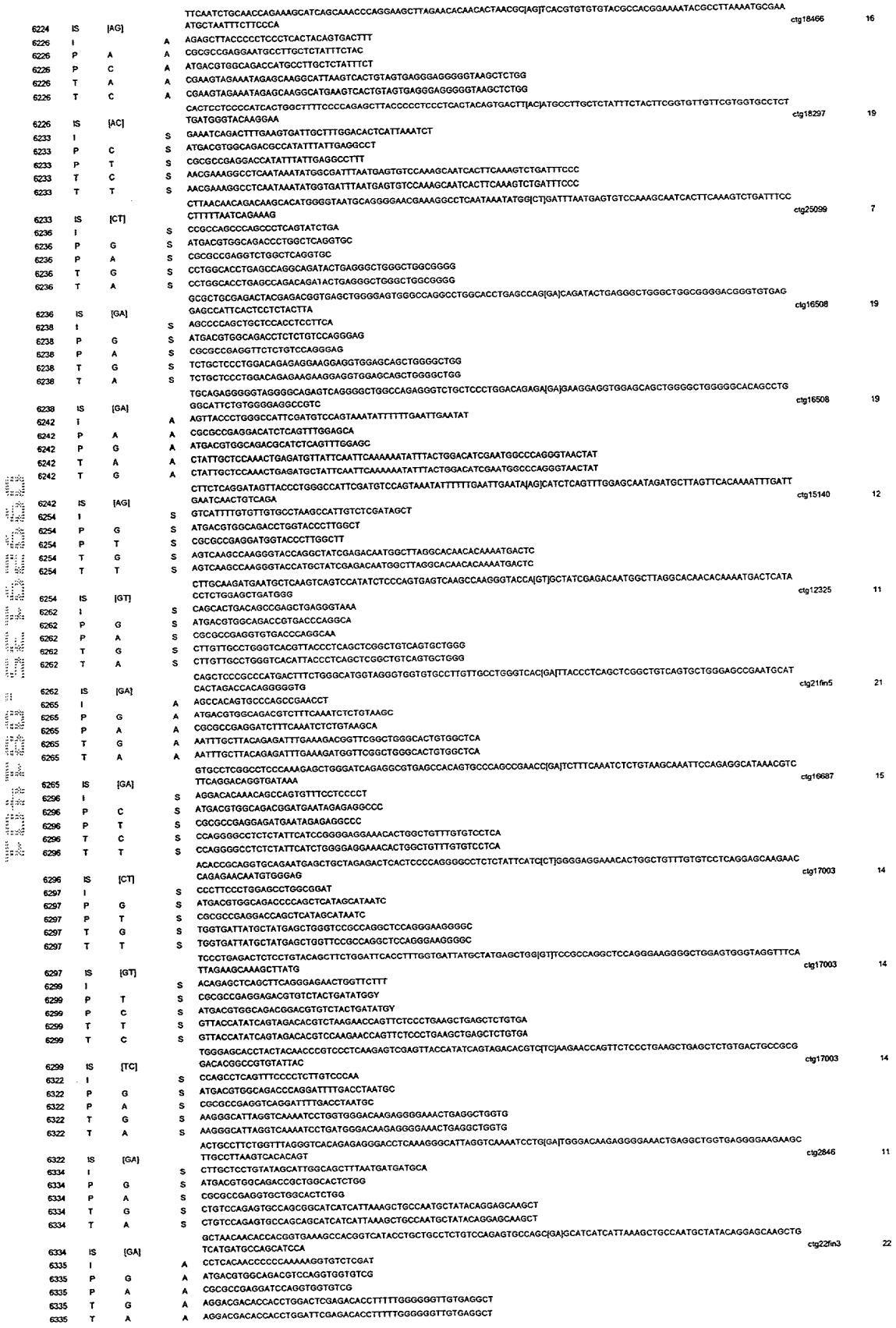

6224 IS [AG] TTCAATCTGCAACCAGAAAGCATCAGCAAACCCAGGAAGCTTAGAACACAACACTAACGC[AG]TCACGTGTGTGTACGCCACGGAAAATACGCCTTAAAATGCGAA ATGCTAATTTCTTCCCA ctg18466 16
6226 I A AGAGCTTACCCCCTCCCTCACTACAGTGACTTT
6226 P A A CGCGCCGAGGAATGCCTTGCTCTATTTCTAC
6226 P C A ATGACGTGGCAGACCATGCCTTGCTCTATTTCT
6226 T A A CGAAGTAGAAATAGAGCAAGGCATTAAGTCACTGTAGTGAGGGAGGGGGGTAAGCTCTGG
6226 T C A CGAAGTAGAAATAGAGCAAGGCATGAAGTCACTGTAGTGAGGGAGGGGGTAAGCTCTGG
6226 IS [AC] CACTCCTCCCCATCACTGGCTTTTCCCCAGAGCTTACCCCCTCCCTCACTACAGTGACTT[AC]ATGCCTTGCTCTATTTCTACTTCGGTGTTGTTCGTGGTGCCTCT TGATGGGTACAAGGAA ctg18297 19
6233 I S GAAATCAGACTTTGAAGTGATTGCTTTGGACACTCATTAAATCT
6233 P C S ATGACGTGGCAGACGCCATATTTATTGAGGCCT
6233 P T S CGCGCCGAGGACCATATTTATTGAGGCCTTT
6233 T C S AACGAAAGGCCTCAATAAATATGGCGATTTAATGAGTGTCCAAAGCAATCACTTCAAAGTCTGATTTCCC
6233 T T S AACGAAAGGCCTCAATAAATATGGTGATTTAATGAGTGTCCAAAGCAATCACTTCAAAGTCTGATTTCCC
6233 IS [CT] CTTAACAACAGACAAGCACATGGGGTAATGCAGGGGAACGAAAGGCCTCAATAAATATGG[CT]GATTTAATGAGTGTCCAAAGCAATCACTTCAAAGTCTGATTTCC CTTTTTAATCAGAAAG ctg25099 7
6236 I S CCGCCAGCCCAGCCCTCAGTATCTGA
6236 P G S ATGACGTGGCAGACCCTGGCTCAGGTGC
6236 P A S CGCGCCGAGGTCTGGCTCAGGTGC
6236 T G S CCTGGCACCTGAGCCAGGCAGATACTGAGGGCTGGGCTGGCGGGG
6236 T A S CCTGGCACCTGAGCCAGACAGATACTGAGGGCTGGGCTGGCGGGG
6236 IS [GA] GCGCTGCGAGACTACGAGACGGTGAGCTGGGGAGTGGGCCAGGCCTGGCACCTGAGCCAG[GA]CAGATACTGAGGGCTGGGCTGGCGGGGACGGGTGTGAG GAGCCATTCACTCCTCTACTTA ctg16508 19
6238 I S AGCCCCAGCTGCTCCACCTCCTTCA
6238 P G S ATGACGTGGCAGACCTCTCTGTCCAGGGAG
6238 P A S CGCGCCGAGGTTCTCTGTCCAGGGAG
6238 T G S TCTGCTCCCTGGACAGAGAGGAAGGAGGTGGAGCAGCTGGGGCTGG
6238 T A S TCTGCTCCCTGGACAGAGAAGAAGGAGGTGGAGCAGCTGGGGCTGG
6238 IS [GA] TGCAGAGGGGGTAGGGGCAGAGTCAGGGGCTGGCCAGAGGGTCTGCTCCCTGGACAGAGA[GA]GAAGGAGGTGGAGCAGCTGGGGCTGGGGGCACAGCCTG GGCATTCTGTGGGGAGGCCGTC ctg16508 19
6242 I A AGTTACCCTGGGCCATTCGATGTCCAGTAAATATTTTTTGAATTGAATAT
6242 P A A CGCGCCGAGGACATCTCAGTTTGGAGCA
6242 P G A ATGACGTGGCAGACGCATCTCAGTTTGGAGC
6242 T A A CTATTGCTCCAAACTGAGATGTTATTCAATTCAAAAAATATTTACTGGACATCGAATGGCCCAGGGTAACTAT
6242 T G A CTATTGCTCCAAACTGAGATGCTATTCAATTCAAAAAATATTTACTGGACATCGAATGGCCCAGGGTAACTAT
6242 IS [AG] CTTCTCAGGATAGTTACCCTGGGCCATTCGATGTCCAGTAAATATTTTTTGAATTGAATA[AG]CATCTCAGTTTGGAGCAATAGATGCTTAGTTCACAAAATTTGATT GAATCAACTGTCAGA ctg15140 12
6254 I S GTCATTTTGTGTTGTGCCTAAGCCATTGTCTCGATAGCT
6254 P G S ATGACGTGGCAGACCTGGTACCCTTGGCT
6254 P T S CGCGCCGAGGATGGTACCCTTGGCTT
6254 T G S AGTCAAGCCAAGGGTACCAGGCTATCGAGACAATGGCTTAGGCACAACACAAAATGACTC
6254 T T S AGTCAAGCCAAGGGTACCATGCTATCGAGACAATGGCTTAGGCACAACACAAAATGACTC
6254 IS [GT] CTTGCAAGATGAATGCTCAAGTCAGTCCATATCTCCCAGTGAGTCAAGCCAAGGGTACCA[GT]GCTATCGAGACAATGGCTTAGGCACAACACAAAATGACTCATA CCTCTGGAGCTGATGGG ctg12325 11
6262 I S CAGCACTGACAGCCGAGCTGAGGGTAAA
6262 P G S ATGACGTGGCAGACCGTGACCCAGGCA
6262 P A S CGCGCCGAGGTGTGACCCAGGCAA
6262 T G S CTTGTTGCCTGGGTCACGTTACCCTCAGCTCGGCTGTCAGTGCTGGG
6262 T A S CTTGTTGCCTGGGTCACATTACCCTCAGCTCGGCTGTCAGTGCTGGG
6262 IS [GA] CAGCTCCCGCCCATGACTTTCTGGGCATGGTAGGGTGGTGTGCCTTGTTGCCTGGGTCAC[GA]TTACCCTCAGCTCGGCTGTCAGTGCTGGGAGCCGAATGCAT CACTAGACCACAGGGGGTG ctg21fin5 21
6265 I A AGCCACAGTGCCCAGCCGAACCT
6265 P G A ATGACGTGGCAGACGTCTTTCAAATCTCTGTAAGC
6265 P A A CGCGCCGAGGATCTTTCAAATCTCTGTAAGCA
6265 T G A AATTTGCTTACAGAGATTTGAAAGACGGTTCGGCTGGGCACTGTGGCTCA
6265 T A A AATTTGCTTACAGAGATTTGAAAGATGGTTCGGCTGGGCACTGTGGCTCA
6265 IS [GA] GTGCCTCGGCCTCCCAAAGAGCTGGGATCAGAGGCGTGAGCCACAGTGCCCAGCCGAACC[GA]TCTTTCAAATCTCTGTAAGCAAATTCCAGAGGCATAAACGTC TTCAGGACAGGTGATAAA ctg16687 15
6296 I S AGGACACAAACAGCCAGTGTTTCCTCCCCT
6296 P C S ATGACGTGGCAGACGGATGAATAGAGAGGCCC
6296 P T S CGCGCCGAGGAGATGAATAGAGAGGCCC
6296 T C S CCAGGGGCCTCTCTATTCATCCGGGGAGGAAACACTGGCTGTTTGTGTCCTCA
6296 T T S CCAGGGGCCTCTCTATTCATCTGGGGAGGAAACACTGGCTGTTTGTGTCCTCA
6296 IS [CT] ACACCGCAGGTGCAGAATGAGCTGCTAGAGACTCACTCCCCAGGGGCCTCTCTATTCATC[CT]GGGGAGGAAACACTGGCTGTTTGTGTCCTCAGGAGCAAGAAC CAGAGAACAATGTGGGAG ctg17003 14
6297 I S CCCTTCCCTGGAGCCTGGCGGAT
6297 P G S ATGACGTGGCAGACCCCAGCTCATAGCATAATC
6297 P T S CGCGCCGAGGACCAGCTCATAGCATAATC
6297 T G S TGGTGATTATGCTATGAGCTGGGTCCGCCAGGCTCCAGGGAAGGGGC
6297 T T S TGGTGATTATGCTATGAGCTGGTTCCGCCAGGCTCCAGGGAAGGGGC
6297 IS [GT] TCCCTGAGACTCTCCTGTACAGCTTCTGGATTCACCTTTGGTGATTATGCTATGAGCTGG[GT]TCCGCCAGGCTCCAGGGAAGGGGCTGGAGTGGGTAGGTTTCA TTAGAAGCAAAGCTTATG ctg17003 14
6299 I S ACAGAGCTCAGCTTCAGGGAGAACTGGTTCTTT
6299 P T S CGCGCCGAGGAGACGTGTCTACTGATATGGY
6299 P C S ATGACGTGGCAGACGGACGTGTCTACTGATATGY
6299 T T S GTTACCATATCAGTAGACACGTCTAAGAACCAGTTCTCCCTGAAGCTGAGCTCTGTGA
6299 T C S GTTACCATATCAGTAGACACGTCCAAGAACCAGTTCTCCCTGAAGCTGAGCTCTGTGA
6299 IS [TC] TGGGAGCACCTACTACAACCCGTCCCTCAAGAGTCGAGTTACCATATCAGTAGACACGTC[TC]AAGAACCAGTTCTCCCTGAAGCTGAGCTCTGTGACTGCCGCG GACACGGCCGTGTATTAC ctg17003 14
6322 I S CCAGCCTCAGTTTCCCCTCTTGTCCCAA
6322 P G S ATGACGTGGCAGACCCAGGATTTTGACCTAATGC
6322 P A S CGCGCCGAGGTCAGGATTTTGACCTAATGC
6322 T G S AAGGGCATTAGGTCAAAATCCTGGTGGGACAAGAGGGGAAACTGAGGCTGGTG
6322 T A S AAGGGCATTAGGTCAAAATCCTGATGGGACAAGAGGGGAAACTGAGGCTGGTG
6322 IS [GA] ACTGCCTTCTGGTTTAGGGTCACAGAGAGGGACCTCAAAGGGCATTAGGTCAAAATCCTG[GA]TGGGACAAGAGGGGAAACTGAGGCTGGTGAGGGGAAGAAGC TTGCCTTAAGTCACACAGT ctg2846 11
6334 I S CTTGCTCCTGTATAGCATTGGCAGCTTTAATGATGATGCA
6334 P G S ATGACGTGGCAGACCGCTGGCACTCTGG
6334 P A S CGCGCCGAGGTGCTGGCACTCTGG
6334 T G S CTGTCCAGAGTGCCAGCGGCATCATCATTAAAGCTGCCAATGCTATACAGGAGCAAGCT
6334 T A S CTGTCCAGAGTGCCAGCAGCATCATCATTAAAGCTGCCAATGCTATACAGGAGCAAGCT
6334 IS [GA] GCTAACAACACCACGGTGAAAGCCACGGTCATACCTGCTGCCTCTGTCCAGAGTGCCAGC[GA]GCATCATCATTAAAGCTGCCAATGCTATACAGGAGCAAGCTG TCATGATGCCAGCATCCA ctg22fin3 22
6335 I A CCTCACAACCCCCCAAAAAGGTGTCTCGAT
6335 P G A ATGACGTGGCAGACGTCCAGGTGGTGTCG
6335 P A A CGCGCCGAGGATCCAGGTGGTGTCG
6335 T G A AGGACGACACCACCTGGACTCGAGACACCTTTTTGGGGGGTTGTGAGGCT
6335 T A A AGGACGACACCACCTGGATTCGAGACACCTTTTTGGGGGGTTGTGAGGCT

FIGURE 129B

				CAAATAAAGAAGGCACTAATCAATGCAGCAGCCTCACAACCCCCCAAAAAGGTGTCTCGA[GA]TCCAGGTGGTGTCGTCCTTGCAGAATTCTGTGGTGGAAACTTT				
6335	IS	[GA]		CAACAAGGTGCTGAGCA	ctg22fin3	22		
6354	I		A	GCTTGGTAGAGGACCAGACCCTGTGGTCT				
6354	P	G	A	ATGACGTGGCAGACGGACCCCATCCGCY				
6354	P	A	A	CGCGCCGAGGAGACCCCATCCGCY				
6354	T	G	A	TGGTGCGGATGGGGTCCGACCACAGGGTCTGGTCCTCTACCAAGCCC				
6354	T	A	A	TGGTGCGGATGGGGTCTGACCACAGGGTCTGGTCCTCTACCAAGCCC				
6354	IS	[GA]		GTTCAAGTATGTCCTGGTCAATATGTCCACGGGCTTGGTAGAGGACCAGACCCTGTGGTC[GA]GACCCCATCCGCACCAACCAGCGTAAGTGGTGGGCAGTGGT GGTGGTGATGCTCAAGGGG	ctg22fin6	22		
6457	I		S	CCTGGGCATTCGCAGCCTCCTCCTTTT				
6457	P	C	S	ATGACGTGGCAGACGGCTCGGTTTGCCY				
6457	P	T	S	CGCGCCGAGGAGCTCGGTTTGCCAY				
6457	T	C	S	GCTGTGGCAAACCGAGCCAAAGGAGGAGGCTGCGAATGCCCAGGTG				
6457	T	T	S	GCTGTGGCAAACCGAGCTAAAGGAGGAGGCTGCGAATGCCCAGGTG				
6457	IS	[CT]		ACCGCAGAAGCTTTTGATCTTGGATGCACGCTCCTATGCAGCTGCTGTGGCAAACCGAGC[CT]AAAGGAGGAGGCTGCGAATGCCCAGGTGAGGTGTATGGTGC TTTGTTCCCCATACTTTCT	ctg22fin4	22		
4063	I		S	CGGGGGATAAACACATCAGAGGTGACCCCAT				
4063	P	G	S	CGCGCCGAGGCATGCTCCCTGCGTG				
4063	P	T	S	CGCGCCGAGGAATGCTCCCTGCGTGT				
4063	T	G	S	GCAAACACGCAGGGAGCATGTGGGGTCACCTCTGATGTGTTTATCCCCCGGC				
4063	T	T	S	GCAAACACGCAGGGAGCATTTGGGGTCACCTCTGATGTGTTTATCCCCCGGC				
4063	IS	[GT]		GGGTCTGAGCTGGACTGTGGTCTGTCACTCTGCAAACACGCAGGGAGCAT[GT]TGGGGTCACCTCTGATGTGTTTATCCCCCGGCTGCCTTCAGCAAGGCTGG	ctg22fin4	22		
4064	I		S	GGGCTTGGCTCTGTGCAGGGTGAATGT				
4064	P	G	S	CGCGCCGAGGCACGCTACAGCTGCAC				
4064	P	C	S	CGCGCCGAGGGACGCTACAGCTGCAC				
4064	T	G	S	GGGAGTGCAGCTGTAGCGTGCATTCACCCTGCACAGAGCCAAGCCCTA				
4064	T	C	S	GGGAGTGCAGCTGTAGCGTCCATTCACCCTGCACAGAGCCAAGCCCTA				
4064	IS	[GC]		GATGCCTCCCTGTTCCCTCGGGGTGTTGCCTGGGAGTGCAGCTGTAGCGT[GC]CATTCACCCTGCACAGAGCCAAGCCCTATGGCCGGAGAGCCAGTCAAGGG	ctg22fin4	22		
4065	I		A	GCAGCAGATATAGCACCAGGGCAGACACTCT				
4065	P	A	A	CGCGCCGAGGACCCTCAGGAATGACTCC				
4065	P	G	A	CGCGCCGAGGGCCCTCAGGAATGACTCC				
4065	T	A	A	TGGAGGAGTCATTCCTGAGGGTGAGTGTCTGCCCTGGTGCTATATCTGCTGCCT				
4065	T	G	A	TGGAGGAGTCATTCCTGAGGGCGAGTGTCTGCCCTGGTGCTATATCTGCTGCCT				
4065	IS	[AG]		GTCACACCCAGTGTGAAAAGGCAGCAGATATAGCACCAGGGCAGACACTC[AG]CCCTCAGGAATGACTCCTCCACATCCGAGGCCTCTAGGCCCAGTACACAC	MULTIPLE	MULTIPLE	MULTIPLE SHORT GENE NAMES	
4069	I		S	CCAGATAGTCTTCCTTGAAGTTTTCAGTTAAAGAAATTTCTTGTTAACAAT				
4069	P	T	S	CGCGCCGAGGATAATGTAGTCATAGAAGAAAACACTTAAAAC				
4069	P	C	S	CGCGCCGAGGGTAATGTAGTCATAGAAGAAAACACTTAAAA				
4069	T	T	S	TAAAGTTTTAAGTGTTTTCTTCTATGACTACATTATTTGTTAACAAGAAATTTCTTTAACTGAAAACTTCAAGGAAGACTATCTGG				
4069	T	C	S	TAAAGTTTTAAGTGTTTTCTTCTATGACTACATTACTTGTTAACAAGAAATTTCTTTAACTGAAAACTTCAAGGAAGACTATCTGG				
4069	IS	[TC]		ATTAGCTTTATTCAATAAAGTTTTAAGTGTTTTCTTCTATGACTACATTA[TC]TTGTTAACAAGAAATTTCTTTAACTGAAAACTTCAAGGAAGACTATCTGG	MULTIPLE	MULTIPLE		
4070	I		S	GGCTGATGACACAATGGGGAAACATAAACTGCTGACC				
4070	P	A	S	CGCGCCGAGGTCTGGACTTCAGCAGTACA				
4070	P	C	S	CGCGCCGAGGGCTGGACTTCAGCAGTAC				
4070	T	A	S	TTACTGTACTGCTGAAGTCCAGAGTCAGCAGTTTATGTTTCCCCATTGTGTCATCAGCCCA				
4070	T	C	S	TTACTGTACTGCTGAAGTCCAGCGTCAGCAGTTTATGTTTCCCCATTGTGTCATCAGCCCA				
4070	IS	[AC]		ACTTTTTCAATGGCCTTGCACATGGCTGTTACTGTACTGCTGAAGTCCAG[AC]GTCAGCAGTTTATGTTTCCCCATTGTGTCATCAGCCCAATGCAAAGTACC	ctg22fin1	22		
4071	I		S	GCCACCAACCTCAGGGGAAATATACTTGTAATGAAATGCATGT				
4071	P	C	S	CGCGCCGAGGGTACAAACGCGCATTCC				
4071	P	T	S	CGCGCCGAGGATACAAACGCGCATTCCC				
4071	T	C	S	AGCAGGGAATGCGCGTTTGTACCATGCATTTCATTACAAGTATATTTCCCCTGAGGTTGGTGGCCT				
4071	T	T	S	AGCAGGGAATGCGCGTTTGTATCATGCATTTCATTACAAGTATATTTCCCCTGAGGTTGGTGGCCT				
4071	IS	[CT]		ACCAGCCACCAACCTCACCCACTCAAGGAAGCAGGGAATGCGCGTTTGTA[CT]CATGCATTTCATTACAAGTATATTTCCCCTGAGGTTGGTGGCCTATGTTT	ctg22fin1	22		
4083	I		A	GCCCCAGCTCCCGAGTTCCTGAATGAAAT				
4083	P	C	A	CGCGCCGAGGCAGTGAAAACACGAACCCA				
4083	P	A	A	CGCGCCGAGGAAGTGAAAACACGAACCCAG				
4083	T	C	A	ACTCCTGGGTTCGTGTTTTCACTGTTTCATTCAGGAACTCGGGAGCTGGGGCCA				
4083	T	A	A	ACTCCTGGGTTCGTGTTTTCACTTTTTCATTCAGGAACTCGGGAGCTGGGGCCA				
4083	IS	[CA]		AACCTGAAGGGCCAAGGGAGTGGCCCCAGCTCCCGAGTTCCTGAATGAAA[CA]AGTGAAAACACGAACCCAGGAGTGTGGACCAGTGCTGACGCTGACATGCA	MULTIPLE	22		
4090	I		S	CATGTCACACCTGCCAGCCCCATCCA				
4090	P	INS	S	CGCGCCGAGGCTCTGTGACACCCCTTCC				
4090	P	DEL	S	CGCGCCGAGGCCTGTGACACCCCTTCC				
4090	T	INS	S	TGGCTGGAAGGGGTGTCACAGAGGGATGGGGCTGGCAGGTGTGACATGTG				
4090	T	DEL	S	TGGCTGGAAGGGGTGTCACAGGGGATGGGGCTGGCAGGTGTGACATGTG				
4090	IS	[A-]		GGGCTGGCAGGGCTCTGAGGAGGGCACAGTGGCTGGAAGGGGTGTCACAG[A-]GGGATGGGGCTGGCAGGTGTGACATGTGTCCCTTTCCCTCCCCGGCTGCT	ctg22fin4	22		
4092	I		S	GGAGCTACTGTAGCAATGGGGGATGGGAAGT				
4092	P	T	S	CGCGCCGAGGATTAAACCCTCCTGCAGG				
4092	P	G	S	CGCGCCGAGGCTTAAACCCTCCTGCAGG				
4092	T	T	S	AGAGCCTGCAGGAGGGTTTAATCTTCCCATCCCCCATTGCTACAGTAGCTCCCC				
4092	T	G	S	AGAGCCTGCAGGAGGGTTTAAGCTTCCCATCCCCCATTGCTACAGTAGCTCCCC				
4092	IS	[TG]		CCTTGAGGAGGGGAATGGGCTCCATCCTGAGAGCCTGCAGGAGGGTTTAA[TG]CTTCCCATCCCCCATTGCTACAGTAGCTCCCCCAGCTTTTCATTCCATAT	ctg22fin4	22		
4103	I		A	CTCACCTTATGAACTGTTAGGTTTCATGGCAGCACATTCATTA				
4103	P	T	A	CGCGCCGAGGTGTCTGTGCTTGCTGTTTAC				
4103	P	C	A	CGCGCCGAGGCGTCTGTGCTTGCTGTT				
4103	T	T	A	AGAGGTAAACAGCAAGCACAGACAAATGAATGTGCTGCCATGAAACCTAACAGTTCATAAGGTGAGGA				
4103	T	C	A	AGAGGTAAACAGCAAGCACAGACGAATGAATGTGCTGCCATGAAACCTAACAGTTCATAAGGTGAGGA				
4103	IS	[TC]		AATGGATCCTCACCTTATGAACTGTTAGGTTTCATGGCAGCACATTCATT[TC]GTCTGTGCTTGCTGTTTACCTCTGGTATCAAGACATCTCTCTGGGCATGG	ctg22fin4	22		
4111	I		S	CCCAGGAGATATCCAAAGAAAAAAGGTGTGTGAGACACTCAT				
4111	P	C	S	CGCGCCGAGGGTAACGGCAAGAGGATGTT				
4111	P	T	S	CGCGCCGAGGATAACGGCAAGAGGATGTTG				
4111	T	C	S	CTGACAACATCCTCTTGCCGTTACTGAGTGTCTCACACACCTTTTTTCTTTGGATATCTCCTGGGAC				
4111	T	T	S	CTGACAACATCCTCTTGCCGTTATTGAGTGTCTCACACACCTTTTTTCTTTGGATATCTCCTGGGAC				
4111	IS	[CT]		CCCAAAGCTTGTTCCTGTGATATAAACCTGACAACATCCTCTTGCCGTTA[CT]TGAGTGTCTCACACACCTTTTTTCTTTGGATATCTCCTGGGACTCAGGAC	ctg22fin4	22		
4121	I		A	GCCAAGCCTCGTGTTATGGGTGTTTCCCG				
4121	P	INS	A	CGCGCCGAGGACTCAGGAGGAAGTGGAG				
4121	P	DEL	A	CGCGCCGAGGAGGAGGAAGTGGAGTGC				
4121	T	INS	A	CTTGTGCACTCCACTTCCTCCTGAGTGGGAAACACCCATAACACGAGGCTTGGCCG				
4121	T	DEL	A	CTTGTGCACTCCACTTCCTCCTGGGAAACACCCATAACACGAGGCTTGGCCG				

FIGURE 129B

4121	IS	[-CTCA]		CTATAGGGCCTTCACCTCTCGGCCAAGCCTCGTGTTATGGGTGTTTCCCA[-CTCA]GGAGGAAGTGGAGTGCACAAGTTCCTTTTAAGGAAGTGAAGTGGAAGTAG	ctg22fin4	22	
4125	I		S	CCCGTCCCAGGCACAGACGCTA			
4125	P	G	S	CGCGCCGAGGCAGGTGTGTTCTGAGACATG			
4125	P	A	S	CGCGCCGAGGTAGGTGTGTTCTGAGACATG			
4125	T	G	S	TTGGCATGTCTCAGAACACACCTGAGCGTCTGTGCCTGGGACGGGCC			
4125	T	A	S	TTGGCATGTCTCAGAACACACCTAAGCGTCTGTGCCTGGGACGGGCC			
4125	IS	[GA]		GTTGTGGGAGTCTTGTGAAGAACATACTTGGCATGTCTCAGAACACACCT[GA]AGCGTCTGTGCCTGGGACGGGCCACACTCACTGTCATCATGGAGAAGCAC	ctg22fin4	22	
4761	I		S	AAGAGAATGAGTAACATCTTGTCTCCTGAATTTGAATCAGAAGTATCAGTT			
4761	P	T	S	CGCGCCGAGGATGTTTCATGAGGCATCTTATCTTY			
4761	P	C	S	CGCGCCGAGGGTGTTTCATGAGGCATCTTATCTY			
4761	T	T	S	TTTTAAGATAAGATGCCTCATGAAACATACTGATACTTCTGATTCAAATTCAGGAGACAAGATGTTACTCATTCTCTT			
4761	T	C	S	TTTTAAGATAAGATGCCTCATGAAACACACTGATACTTCTGATTCAAATTCAGGAGACAAGATGTTACTCATTCTCTT			
4761	IS	[TC]		GTGTATGTGAATTTGTGTATTTTTTTTAAGATAAGATGCCTCATGAAACA[TC]ACTGATACTTCTGATTCAAATTCAGGAGACAAGATGTTACTCATTCTCTT	ctg22fin4	22	
4790	I		A	ATTATTCCTGGATTCTGTTATTTAAAAATATTTACTGATCGCTTACCTTAT			
4790	P	A	A	CGCGCCGAGGAACCAAGTGATCTCCAGCTY			
4790	P	C	A	CGCGCCGAGGCACCAAGTGATCTCCAGCY			
4790	T	A	A	CACGAGCTGGAGATCACTTGGTTTAAGGTAAGCGATCAGTAAATATTTTTAAATAACAGAATCCAGGAATAAT			
4790	T	C	A	CACGAGCTGGAGATCACTTGGTGTAAGGTAAGCGATCAGTAAATATTTTTAAATAACAGAATCCAGGAATAAT			
4790	IS	[AC]		ATTATTCCTGGATTCTGTTATTTAAAAATATTTACTGATCGCTTACCTTA[AC]ACCAAGTGATCTCCAGCTCGTGGAAAAATATGTGAAGTTGCCCAGCTTCA	ctg22fin1	22	
4055	I		S	AGTGGAAGAGCAAGAATGAGAGTCGTAAGATGTCCCTT			
4055	P	T	S	CGCGCCGAGGACAGGTTATGGACACTGAAC			
4055	P	C	S	CGCGCCGAGGGCAGGTTATGGACACTGAAC			
4055	T	T	S	TCTGGTTCAGTGTCCATAACCTGTAGGGACATCTTACGACTCTCATTCTTGCTCTTCCACTGG			
4055	T	C	S	TCTGGTTCAGTGTCCATAACCTGCAGGGACATCTTACGACTCTCATTCTTGCTCTTCCACTGG			
4055	IS	[TC]		ACGGCCAGTTGAGCTGGACCTCATTTCTATGGACCTGGGTGGTGACTGGCCTTCTGGTTCAGTGTCCATAACCTG[TC]AGGGACATCTTACGACTCTCATTCTTGC TCTTCCACTGGGTAAGGAGCTGTTTGGACCGGGCAGAATCCATAGA			
4059	I		A	GAGGAAGATGGACTTCTGGGAGGCCTGCT			
4059	P	G	A	CGCGCCGAGGGCTCACAAGGCTCTACATC			
4059	P	A	A	CGCGCCGAGGACTCACAAGGCTCTACATCC			
4059	T	G	A	TTCGGGATGTAGAGCCTTGTGAGCGCAGGCCTCCCAGAAGTCCATCTTCCTCAC			
4059	T	A	A	TTCGGGATGTAGAGCCTTGTGAGTGCAGGCCTCCCAGAAGTCCATCTTCCTCAC			
4059	IS	[GA]		CGGAACCGGGTCATTTGTTGGTGAGGAAGATGGACTTCTGGGAGGCCTGC[GA]CTCACAAGGCTCTACATCCCGAAGTGATCTCACCAAGGGGCACAACAGCC	ctg22fin4	22	
4097	I		A	CCTTCTTCATGGTCCTTTGCCTAATCAAACAGAGGCA			
4097	P	T	A	CGCGCCGAGGTTTTGGCCTTTGAAAATCCATG			
4097	P	C	A	CGCGCCGAGGCTTTGGCCTTTGAAAATCCATG			
4097	T	T	A	TTGTCATGGATTTTCAAAGGCCAAAAGCCTCTGTTTGATTAGGCAAAGGACCATGAAGAAGGGT			
4097	T	C	A	TTGTCATGGATTTTCAAAGGCCAAAGGCCTCTGTTTGATTAGGCAAAGGACCATGAAGAAGGGT			
4097	IS	[TC]		TCTTCAGTAGATACCCTTCTTCATGGTCCTTTGCCTAATCAAACAGAGGC[TC]TTTGGCCTTTGAAAATCCATGACAAGGCCTCAGAAATCAGTGTTGTGGAG	ctg22fin4	22	
4164	I		A	TCCTGACCTCAGGTGATCCACCCACCTT			
4164	P	G	A	ATGACGTGGCAGACGGGCCTCCCGAAGY			
4164	P	A	A	CGCGCCGAGGAGGCCTCCCGAAGTY			
4164	T	G	A	TAGCACTTCGGGAGGCCCAGGTGGGTGGATCACCTGAGGTCAGGAGT			
4164	T	A	A	TAGCACTTCGGGAGGCCTAGGTGGGTGGATCACCTGAGGTCAGGAGT			
4164	IS	[GA]		ATTTTTTGTATTTTTTTTTCTTTTTTTTTAGTAGAGACAGGGTTTCACCATGTTGGCCAGCTGGTCTCAAACTCCTGACCTCAGGTGATCCACCCACCT[GA]GGCCT CCCGAAGTGCTAGGATTGCAAGTGTGAGCCACCGCACCCAGCTCCAACCTCAGTTTCTTCATCTGTAAAATTGGGAGTAAAATGGGACCTACTTT			
4243	I		A	ACATTATTCTACCATGATGTTTAAGGCAGCATCCTAAGATTTTT			
4243	P	G	A	ATGACGTGGCAGACGGGCAAAGGACACTAGT			
4243	P	A	A	CGCGCCGAGGAGGCAAAGGACACTAGT			
4243	T	G	A	TTGCACTAGTGTCCTTTGCCCAAAATCTTAGGATGCTGCCTTAAACATCATGGTAGAATAATGTAA			
4243	T	A	A	TTGCACTAGTGTCCTTTGCCTAAAATCTTAGGATGCTGCCTTAAACATCATGGTAGAATAATGTAA			
4243	IS	[GA]		TTCCTGGGGAGATAAAACACAAAATGAATTAAAGAAGGAAATCGTGGGTAGCTAGTTACATTATTCTACCATGATGTTTAAGGCAGCATCCTAAGATTTT[GA]GGCA AAGGACACTAGTGCAATAATCTTTATTTCAGAGTTTAATCAAATAAATAAACAAATTTTAAGACTTTCATTATTTAGGTCAAAGAGAAAAGACAGG	ctg13446	1	
4276	I		S	CCACGGCGCCCGGCCTCT			
4276	P	C	S	ATGACGTGGCAGACGTACAGTGCTGGGATTAC			
4276	P	G	S	CGCGCCGAGGCTACAGTGCTGGGATTAC			
4276	T	C	S	GCCTGTAATCCCAGCACTGTACGAGGCCGGGCGCCGTGGCG			
4276	T	G	S	GCCTGTAATCCCAGCACTGTAGGAGGCCGGGCGCCGTGGCG			
4276	IS	[CG]		TCCCAGCACTGTGGGAGGCCAGGCACGGGGGCTCACGCCTGTAATCCCAGCACTATGGGAAGCTGGGCGTGGGGGCTCAGCCTGTAATCCCAGCACTGTA[CG] GAGGCCGGGCGCCGTGGCGCATGCCTGTAATCCCAGCACTGTGGATGGCCGAGGCAGGCGGATCACGAGGTTAGGAGTTCGAGACCATCCTGGCTAACAC	ctg16829	1	
4472	I		A	ACCAACCCTCAGAGCCACCCCTAAAGAGATT			
4472	P	C	A	ATGACGTGGCAGACCCTTTGATATTTTCAACGCAG			
4472	P	A	A	CGCGCCGAGGACTTTGATATTTTCAACGCAGY			
4472	T	C	A	AGGGCTGCGTTGAAAATATCAAAGGATCTCTTTAGGGGTGGCTCTGAGGGTTGGTGG			
4472	T	A	A	AGGGCTGCGTTGAAAATATCAAAGTATCTCTTTAGGGGTGGCTCTGAGGGTTGGTGG			
4472	IS	[CA]		GGCTCCTCCCGGTGCCCAAGAATAGATGCTGACTGTACTCCTCCCAGGCGCCCCTTCCCCCTCCAATCCCACCAACCCTCAGAGCCACCCCTAAAGAGAT[CA]CT TTGATATTTTCAACGCAGCCCTGCTTTGGGCTGCCCTGGTGCTGCCACACTTCAGGCTCTTCTCCTTTCACAACCTTCTGTGGCTCACAGAACCCTTG	ctg15972	16	MMP2
4534	I		S	CTTACCTGCACCCTTACCTGCATCCTTACCCT			
4534	P	T	S	CGCGCCGAGGACATCCTTACCTGCATCC			
4534	P	C	S	ATGACGTGGCAGACGCATCCTTACCTGCATC			
4534	T	T	S	GTAAGGATGCAGGTAAGGATGTGGGTAAGGATGCAGGTAAGGGTGCAGGTAAGGG			
4534	T	C	S	GTAAGGATGCAGGTAAGGATGCGGGTAAGGATGCAGGTAAGGGTGCAGGTAAGGG			
4534	IS	[TC]		GATGCGGGTAAGGATGCAGGTAAGGGTGCAGGTAAGGATGCGGGTAAGGATGCAGGTAAGGATGCAGGTAAGGGTGCAGGTAAGGATGCAGGTAAGGATG[TC] GGGTAAGGATGCAGGTAAGGGTGCAGGTAAGGGAACAGATAAGGGTGCAGGTAAGGGACAAGTAAGGAGGCATATAAGGGTGCTGGGGGATGGGAGGAG			
4537	I		S	ACCCTTATCTGTTCCCTTACCTGCACCCTTACCA			
4537	P	A	S	CGCGCCGAGGTGCATCCTTACCCACA			
4537	P	G	S	ATGACGTGGCAGACCGCATCCTTACCCACA			
4537	T	A	S	AGGATGTGGGTAAGGATGCAGGTAAGGGTGCAGGTAAGGGAACAGATAAGGGTGC			
4537	T	G	S	AGGATGTGGGTAAGGATGCGGGTAAGGGTGCAGGTAAGGGAACAGATAAGGGTGC			
4537	IS	[AG]		ATGCAGGTAAGGGTGCAGGTAAGGATGCGGGTAAGGATGCAGGTAAGGATGCAGGTAAGGGTGCAGGTAAGGATGCAGGTAAGGATGTGGGTAAGGATGC[AG] GGTAAGGGTGCAGGTAAGGGAACAGATAAGGGTGCAGGTAAGGGGACAAGTAAGGAGGCATATAAGGGTGCTGGGGGATGGGAGGAGTGTGGGATAAAGG			
4539	I		A	CCCCACACCCACACAGGGCTCCAA			
4539	P	T	A	CGCGCCGAGGTGAAGGTGGCTGTTAGC			
4539	P	C	A	ATGACGTGGCAGACCGAAGGTGGCTGTTAG			
4539	T	T	A	TCATGCTAACAGCCACCTTCATGGAGCCCTGTGTGGGTGTGGGGGG			
4539	T	C	A	TCATGCTAACAGCCACCTTCGTGGAGCCCTGTGTGGGTGTGGGGGG			

FIGURE 129B

				CTCTGGGCTATCAGCTAGTTGTCCTCTCACATGGCACATAGCTGTGACAAGATGAAATGATCCCTGGCTTGTGAACCCCCCACACCCACACAGGGCTCCA[TC]GA			
4539	IS	[TC]		AGGTGGCTGTTAGCATGATTAATAACATGGCGTTTCCATGGCAGACATCAGGTGAAGGAGCCATTATTTTTGCCTTTTTCATCACTGAAACACATCTC	ctg17253	1	
4559	I		A	CTGCTCCTTTGCACCCCTCCCAAACCA			
4559	P	C	A	ATGACGTGGCAGACCCAACCCTTAATCCTCAC			
4559	P	T	A	CGCGCCGAGGTCAACCCTTAATCCTCACA			
4559	T	C	A	AAGCTGTGAGGATTAAGGGTTGGGGTTTGGGAGGGGTGCAAAGGAGCAGAC			
4559	T	T	A	AAGCTGTGAGGATTAAGGGTTGAGGTTTGGGAGGGGTGCAAAGGAGCAGAC			
				AAGTGGCCCTGACTGCCAAGATCATCACCATGGATGGGGGCCGGGACCAGGGGGGCCACTGGAGCTGTAGTTGTCTGCTCCTTTGCACCCCTCCCAAACC[CT]C			
4559	IS	[CT]		AACCCTTAATCCTCACAGCTTTGCTCTAATCCTGTGGGGCCTGATGCTCTTATCTCTGCCTGCAGAGACTGACCAGGGAAGCACCCCTTCACCCCCTCC	ctg17326	12	
4568	I		A	GCGGATTTGGTGAAGTCGGCCTCAAGTCCT			
4568	P	A	A	CGCGCCGAGGAGGAGGTCTGTCTTCG			
4568	P	G	A	ATGACGTGGCAGACGGGAGGTCTGTCTTCG			
4568	T	A	A	CCGGCGAAGACAGACCTCCTGGACTTGAGGCCGACTTCACCAAATCCGCCC			
4568	T	G	A	CCGGCGAAGACAGACCTCCCGGACTTGAGGCCGACTTCACCAAATCCGCCC			
				TGCTAGGGACCGCAGTCCCTCAGCCGCAGCTGGGTCTGTCCGCCCCGCCTTTGCCCTCGCCTTTTCCCGGGGCGGATTTGGTGAAGTCGGCCTCAAGTCC[AG]			
4568	IS	[AG]		GGAGGTCTGTCTTCGCCGGGCCAGCTCTCGCGGAACTGGGGGGTAGAGAGCAAAGGGAGAGATTCGTGGAAGGGAAGGGAGGTAGGGGTGGCGCAAACGC	ctg16306	4	NPY2R
4854	I		S	CTGCCCTCCTCCCATTTGCAGATGCCT			
4854	P	C	S	ATGACGTGGCAGACGTCGTAGAATCGCAGC			
4854	P	T	S	CGCGCCGAGGATCGTAGAATCGCAGCA			
4854	T	C	S	CACCTGCTGCGATTCTACGACGGCATCTGCAAATGGGAGGAGGGCAGTC			
4854	T	T	S	CACCTGCTGCGATTCTACGATGGCATCTGCAAATGGGAGGAGGGCAGTC			
				GAGCCAAGGTTCCGCCCTCCAGGACCCTGAGTGCTTCGCCCACCTGCTGCGATTCTACGA[CT]GGCATCTGCAAATGGGAGGAGGGCAGTCCCACGCCTGTGCT			
4854	IS	[CT]		GCACGTGGGCTGGGCCACC	ctg17042	11	MEN1
4905	I		S	GGCTTTATCACTCAGTTCTGAAATAGGCCAAATGCATGGT			
4905	P	T	S	CGCGCCGAGGAACACATGAACACCAGAC			
4905	P	C	S	ATGACGTGGCAGACGACACATGAACACCAGAC			
4905	T	T	S	CTCTGTCTGGTGTTCATGTGTTCCATGCATTTGGCCTATTTCAGAACTGAGTGATAAAGCCGT			
4905	T	C	S	CTCTGTCTGGTGTTCATGTGTCCCATGCATTTGGCCTATTTCAGAACTGAGTGATAAAGCCGT			
				AGCTCATCACTGATGAGTTTGTGAAGCAGAAGTAAGTATCTCTGTCTGGTGTTCATGTGT[TC]CCATGCATTTGGCCTATTTCAGAACTGAGTGATAAAGCCGTGG			
4905	IS	[TC]		TGCATGGATGCATGTGT	ctg14153	X	
4972	I		S	CCAAGCAGTTCCAAGTAAGGGAAAAGCTGCCACT			
4972	P	C	S	ATGACGTGGCAGACGCCTCCCGAACAAGA			
4972	P	T	S	CGCGCCGAGGACCTCCCGAACAAGAG			
4972	T	C	S	TGTCCTCTTGTTCGGGAGGCGTGGCAGCTTTTCCCTTACTTGGAACTGCTTGGGT			
4972	T	T	S	TGTCCTCTTGTTCGGGAGGTGTGGCAGCTTTTCCCTTACTTGGAACTGCTTGGGT			
				CCCCCTTCAGGTAGGGCCAGGGTCGTTTTGGTCTGGCCTGCTGTCCTCTTGTTCGGGAGG[CT]GTGGCAGCTTTTCCCTTACTTGGAACTGCTTGGGTCACAGC			
4972	IS	[CT]		CTCGTTTTGTTCCCAGTAT	ctg18251	1	
5104	I		S	CTCCAAGACGCTGAAACCTTCCTTCGGGTT			
5104	P	C	S	ATGACGTGGCAGACGTGTTGAAACTGCATCCC			
5104	P	G	S	CGCGCCGAGGCTGTTGAAACTGCATCCC			
5104	T	C	S	GCTGGGGATGCAGTTTCAACACACCCGAAGGAAGGTTTCAGCGTCTTGGAGAG			
5104	T	G	S	GCTGGGGATGCAGTTTCAACAGACCCGAAGGAAGGTTTCAGCGTCTTGGAGAG			
				GGGACACATGCCCTTCTCTTCTTGCTCCGACATGATGGTGCTGGGGATGCAGTTTCAACA[CG]ACCCGAAGGAAGGTTTCAGCGTCTTGGAGAGCTGGCCGGGA			
5104	IS	[CG]		AGGTTACCGGGCAGGAGAG	ctg16114	X	
5123	I		A	TGCTTGAAGCTCAGAGAGCAGCTCTGGATGAGT			
5123	P	A	A	CGCGCCGAGGATGGTCCAAGGCCTG			
5123	P	C	A	ATGACGTGGCAGACCTGGTCCAAGGCCT			
5123	T	A	A	GGAGCAGGCCTTGGACCATCTCATCCAGAGCTGCTCTCTGAGCTTCAAGCACC			
5123	T	C	A	GGAGCAGGCCTTGGACCAGCTCATCCAGAGCTGCTCTCTGAGCTTCAAGCACC			
				TCTCTTGTTGGCCTTGTCCTCAGTCAGGTGCTTGAAGCTCAGAGAGCAGCTCTGGATGAG[AC]TGGTCCAAGGCCTGCTCCGTGTTCATCAGCTCCTTCAGCTCC			
5123	IS	[AC]		TGCCCCAGCTGTTGCTGC	ctg16574	1	
5131	I		S	CAGAATGGGCAGAGTGAGATTCTGCCTCAAAAAAATTTTAAAAAAAGAAAAGAAAAAA			
5131	P	A	S	CGCGCCGAGGTGAAAAGTTTCAATGGCTCT			
5131	P	G	S	ATGACGTGGCAGACCGAAAAGTTTCAATGGCTC			
5131	T	A	S	ACATAGAGCCATTGAAACTTTTCATTTTTCTTTTCTTTTTTTAAAATTTTTTTGAGGCAGAATCTCACTCTGCCCATTCTGTC			
5131	T	G	S	ACATAGAGCCATTGAAACTTTTCGTTTTTCTTTTCTTTTTTTAAAATTTTTTTGAGGCAGAATCTCACTCTGCCCATTCTGTC			
				CTTCTCTGAAGAAGGTGAGGAGGAAGGGGACAAGATGACATAGAGCCATTGAAACTTTTC[AG]TTTTTCTTTTCTTTTTTTAAAATTTTTTTGAGGCAGAATCTCACT			
5131	IS	[AG]		CTGCCCATTCTGTCG			
5139	I		A	CGGGAAGCCCTGAAGAAAAAGTTTACGCGAGTT			
5139	P	C	A	ATGACGTGGCAGACCCATGATGCGGAGTC			
5139	P	A	A	CGCGCCGAGGACATGATGCGGAGTCC			
5139	T	C	A	CGGAGGACTCCGCATCATGGACTCGCGTAAACTTTTTCTTCAGGGCTTCCCGTT			
5139	T	A	A	CGGAGGACTCCGCATCATGTACTCGCGTAAACTTTTTCTTCAGGGCTTCCCGTT			
				CTATTTCCTGATCCCCAGAACCTATGAACGGGAAGCCCTGAAGAAAAAGTTTACGCGAGT[CA]CATGATGCGGAGTCCTCCGATGAAGACGGCTATGACTGGGGT			
5139	IS	[CA]		CCGGCCACTGACCTGTGA	ctg19	19	
5142	I		A	CCCAAAGTAACATCGCTTGTAAATTTCCTACCTTTGGACTTCAA			
5142	P	T	A	CGCGCCGAGGTCCATTATTCTGTCTTTCAACA			
5142	P	C	A	ATGACGTGGCAGACCCCATTATTCTGTCTTTCAAC			
5142	T	T	A	TGTCTGTTGAAAGACAGAATAATGGATGAAGTCCAAAGGTAGGAAATTTACAAGCGATGTTACTTTGGGAT			
5142	T	C	A	TGTCTGTTGAAAGACAGAATAATGGGTGAAGTCCAAAGGTAGGAAATTTACAAGCGATGTTACTTTGGGAT			
				CCTCCCATCCCCGTCATCCCAAAGTAACATCGCTTGTAAATTTCCTACCTTTGGACTTCA[TC]CCATTATTCTGTCTTTCAACAGACATTCACTGCTCCCCAACATTG			
5142	IS	[TC]		TGGCCGACATGGACG	ctg12325	11	
5145	I		A	TCCCCTCATCCTCTCTCAGGACCCCCT			
5145	P	G	A	ATGACGTGGCAGACGCCGGGGCTTTG			
5145	P	A	A	CGCGCCGAGGACCGGGGCTTTGG			
5145	T	G	A	AATGCCAAAGCCCCGGCGGGGGTCCTGAGAGAGGATGAGGGGAAG			
5145	T	A	A	AATGCCAAAGCCCCGGTGGGGGTCCTGAGAGAGGATGAGGGGAAG			
				ACCCTTTACCCTGGGGGAAACAGCAGCTCTTCCTTCCCCTCATCCTCTCTCAGGACCCCC[GA]CCGGGGCTTTGGCATTGCGATCTCTGGAGGCCGAGACCGGC			
5145	IS	[GA]		CCGGTGGATCCATGGTTGT	ctg19	19	
5146	I		S	CTGACCAGTTCCAGAGGGGAGACACACTGAAAT			
5146	P	C	S	ATGACGTGGCAGACGCCATCACACCCTCG			
5146	P	T	S	CGCGCCGAGGACCATCACACCCTCG			
5146	T	C	S	CTGCCGAGGGTGTGATGGCTTTCAGTGTGTCTCCCCTCTGGAACTGGTCAGCC			
5146	T	T	S	CTGCCGAGGGTGTGATGGTTTTCAGTGTGTCTCCCCTCTGGAACTGGTCAGCC			
				CTCCTGTGTCTTGGTGCCTGTGCCCCTCTGCCCTGCCCCAGCCTGCCGAGGGTGTGATGG[CT]TTTCAGTGTGTCTCCCCTCTGGAACTGGTCAGCCCTCAAGG			
5146	IS	[CT]		CAGGGCTGACCCCCATCCC	ctg18911	9	
5158	I		A	GACCTGAGCCAGACATCACCCTGGCTT			
5158	P	A	A	CGCGCCGAGGACGGTGTTCCATGTCT			
5158	P	G	A	ATGACGTGGCAGACGCGGTGTTCCATGTC			
5158	T	A	A	TGTGAGACATGGAACACCGTAGCCAGGGTGATGTCTGGCTCAGGTCCT			
5158	T	G	A	TGTGAGACATGGAACACCGCAGCCAGGGTGATGTCTGGCTCAGGTCCT			
				TCTTGGTGGCATCTGTCCCTCACTAGCTACGGAGGACCTGAGCCAGACATCACCCTGGCT[AG]CGGTGTTCCATGTCTCACAGATAGCCCAGTTCAGGGAGGCG			
5158	IS	[AG]		ACATGCCCAAGAGTGCTCA	ctg22fin4	22	
5163	I		S	CCTGAGGGGTGAAACCTCCAACCCCAGA			
5163	P	G	S	ATGACGTGGCAGACCGAGGTCCTCTCCC			
5163	P	A	S	CGCGCCGAGGTGAGGTCCTCTCCCA			

FIGURE 129B

5163	T	G	S	ACTCTGGGAGAGGACCTCGCTGGGGTTGGAGGTTTCACCCCTCAGGGT			
5163	T	A	S	ACTCTGGGAGAGGACCTCACTGGGGTTGGAGGTTTCACCCCTCAGGGT			
5163	IS	[GA]		GGTCCTGTGGAACATCTTGAAGCCCCTCATCAGGTATGCGTCACTCTGGGAGAGGACCT[GA]CTGGGGTTGGAGGTTTCACCCCTCAGGGTCCATGGGACGGC CTTCCCTATCCACGCATCA	ctg22fin6	22	
5172	I		S	TCTAGAAGAGTGACACAGTAAATCTGTTTTCAGCCACCCACC			
5172	P	A	S	CGCGCCGAGGTATGCAGTCACAGGAACT			
5172	P	C	S	ATGACGTGGCAGACGATGCAGTCACAGGAAC			
5172	T	A	S	ATTAAGTTCCTGTGACTGCATAGTGGGTGGCTGAAAACAGATTTACTGTGTCACTCTTCTAGAGG			
5172	T	C	S	ATTAAGTTCCTGTGACTGCATCGTGGGTGGCTGAAAACAGATTTACTGTGTCACTCTTCTAGAGG			
5172	IS	[AC]		GACCATTCCTGGGGAAGGGATACACCCAGAACCACGTACATTAAGTTCCTGTGACTGCAT[AC]GTGGGTGGCTGAAAACAGATTTACTGTGTCACTCTTCTAGAGG CTAGCAGTCCAAAAGCA	ctg22fin6	22	
5185	I		S	CGGCCAGAGTCCAAGCTCCACCTCCTAC			
5185	P	A	S	CGCGCCGAGGTTCTCCTTCATCCCTCTC			
5185	P	C	S	ATGACGTGGCAGACGTCTCCTTCATCCCTCTC			
5185	T	A	S	GGTGGAGAGGGATGAAGGAGAATAGGAGGTGGAGCTTGGACTCTGGCCGGG			
5185	T	C	S	GGTGGAGAGGGATGAAGGAGACTAGGAGGTGGAGCTTGGACTCTGGCCGGG			
5185	IS	[AC]		CTTCCCCCAATCTCTGCCACAGCACAATTTTGGTGGGGAGGTGGAGAGGGATGAAGGAGA[AC]TAGGAGGTGGAGCTTGGACTCTGGCCGGGGGCGGCGGGGT GAGGGGGGGCAGCAGCTCGC			
5187	I		A	TGTGCGCTACCACGCCCAGCTAGTTTTTTT			
5187	P	G	A	ATGACGTGGCAGACGTATTTTTTATACAGACCGGGT			
5187	P	A	A	CGCGCCGAGGATATTTTTTATACAGACCGGGT			
5187	T	G	A	CGAAACCCGGTCTGTATAAAAAATACAAAAAACTAGCTGGGCGTGGTAGCGCACACC			
5187	T	A	A	CGAAACCCGGTCTGTATAAAAAATATAAAAAACTAGCTGGGCGTGGTAGCGCACACC			
5187	IS	[GA]		CGTCAGGCTCCTGAGTAGCTGGGACCACAGGTGTGCGCTACCACGCCCAGCTAGTTTTTT[GA]TATTTTTTATACAGACCGGGTTTCGCCATGTTGCCCAGGCTG GTCTCAAACTCCTGAGCT			
5188	I		S	TCCCTTCCTCTTTTCCCACAGATGGGTTGACTTC			
5188	P	C	S	ATGACGTGGCAGACGTTTGTTCCAAAGTTTTCCAT			
5188	P	A	S	CGCGCCGAGGTTTTGTTCCAAAGTTTTCCATT			
5188	T	C	S	CAGAAATGGAAAACTTTGGAACAAACAAGTCAACCCATCTGTGGGAAAAGAGGAAGGGAAC			
5188	T	A	S	CAGAAATGGAAAACTTTGGAACAAAAAAGTCAACCCATCTGTGGGAAAAGAGGAAGGGAAC			
5188	IS	[CA]		CATCTTCAAAAGTGTGGCTCCAAGGTCATATGTGGCAGAAATGGAAAACTTTGGAACAAA[CA]AAGTCAACCCATCTGTGGGAAAAGAGGAAGGGAACACATGGCA ATCACCATATCAAGCTT	ctg15379	X	
5283	I		A	CCTTGGATGGGGCCTGGGGAGGACT			
5283	P	A	A	CGCGCCGAGGATAGATTTTGTCTGTCCCTG			
5283	P	G	A	ATGACGTGGCAGACGTAGATTTTGTCTGTCCCTG			
5283	T	A	A	GGTCCAGGGACAGACAAAATCTATGTCCTCCCCAGGCCCCATCCAAGGAC			
5283	T	G	A	GGTCCAGGGACAGACAAAATCTACGTCCTCCCCAGGCCCCATCCAAGGAC			
5283	IS	[AG]		ACTGCGATGGGACTCCTAGTGGAAAGGGATAGATGTCCTTGGATGGGGCCTGGGGAGGAC[AG]TAGATTTTGTCTGTCCCTGGACCTATTCTCTTGTTCATTGTT TCAAATGTTATTGATGTC	ctg15665	20	
5284	I		A	CGCTCACATGGCAATACAGGAGTGAGCCCT			
5284	P	G	A	ATGACGTGGCAGACGGACTTAACTTCCGTAATTCC			
5284	P	A	A	CGCGCCGAGGAGACTTAACTTCCGTAATTCC			
5284	T	G	A	TGGAGGAATTACGGAAGTTAAGTCCGGGCTCACTCCTGTATTGCCATGTGAGCGTT			
5284	T	A	A	TGGAGGAATTACGGAAGTTAAGTCTGGGCTCACTCCTGTATTGCCATGTGAGCGTT			
5284	IS	[GA]		CAAATAATTGAGTCAGAGCCTATTTACCAAACGCTCACATGGCAATACAGGAGTGAGCCC[GA]GACTTAACTTCCGTAATTCCTCCAAGAGGCAGAATAGAATCAA GCTTTTTCACGCTTACA	ctg13390	6	
5309	I		A	TGCTCTGTGTTTTTATAGCAGGAAGCCAGCCGT			
5309	P	A	A	CGCGCCGAGGAATCCACACCCTCTCCY			
5309	P	C	A	ATGACGTGGCAGACCATCCACACCCTCTCCY			
5309	T	A	A	ATGGGGAGAGGGTGTGGATTCGGCTGGCTTCCTGCTATAAAAACACAGAGCAGC			
5309	T	C	A	ATGGGGAGAGGGTGTGGATGCGGCTGGCTTCCTGCTATAAAAACACAGAGCAGC			
5309	IS	[AC]		TACCAGATCAACCAGGTAGAGGGTAGGCTGCTCTGTGTTTTTATAGCAGGAAGCCAGCCG[AC]ATCCACACCCTCTCCCCATTGGGGGCACCTGAATCTTGTCCC ATTCTCCCAGCTGAAACG	ctg14932	16	
5331	I		A	CTGTTCAGTGCCGACCTGCGCCAATT			
5331	P	G	A	ATGACGTGGCAGACGCCGCCATGCTCAY			
5331	P	C	A	CGCGCCGAGGCCCGCCATGCTCAY			
5331	T	G	A	CTCCTGAGCATGGCGGCA[T]GGCGCAGGTCGGCACTGAACAGCA			
5331	T	C	A	CTCCTGAGCATGGCGGGATTGGCGCAGGTCGGCACTGAACAGCA			
5331	IS	[GC]		CTCCTCCCCACACAGACTCCACCCTCCTACAGGTGCTGTTCAGTGCCGACCTGCGCCAAT[GC]CCGCCATGCTCAGGAGCCACCAGCAAAGCGCAGAAAGGGTT CCAAAGGGCCGGAAGGCTA	ctg15945	3	OGG1
5334	I		S	CTCCTCCCCGTCCCAGGCCATCAT			
5334	P	C	S	ATGACGTGGCAGACGTTCCCATGTCCTCTGY			
5334	P	G	S	CGCGCCGAGGCTTCCCATGTCCTCTGCY			
5334	T	C	S	AGATGCAGAGGACATGGGAACTGATGGCCTGGGACGGGGAGGAGAA			
5334	T	G	S	AGATGCAGAGGACATGGGAAGTGATGGCCTGGGACGGGGAGGAGAA			
5334	IS	[CG]		GCTGGGGCAGAGCAGGGATGGACCTGGAGCTGTTCAGGGCAGATGCAGAGGACATGGGAA[CG]TGATGGCCTGGGACGGGGAGGAGAATGTGAGAGGCAGGC TGGCTCTCCAGCTCAGCATGA	ctg15296	11	
5335	I		A	CTCTCTGTGCTGCCTGGGCTGGTCTT			
5335	P	G	A	ATGACGTGGCAGACGGAACTCCTGGTCTCAGY			
5335	P	A	A	CGCGCCGAGGAGAACTCCTGGTCTCAGY			
5335	T	G	A	CCACCTGAGACCAGGAGTTCCAGACCAGCCCAGGCAGCACAGAGAGAC			
5335	T	A	A	CCACCTGAGACCAGGAGTTCTAGACCAGCCCAGGCAGCACAGAGAGAC			
5335	IS	[GA]		CTGGGTAATTTTTGTGTTTTTTGTAGAGATGGGGTCTCTCTGTGCTGCCTGGGCTGGTCT[GA]GAACTCCTGGTCTCAGGTGGTCCTCCTGTCTCAGCCTCCCAA AGTGCTTGGATTACAGAC	ctg16920	19	
5339	I		S	CAGGCTGGACCAAGCCTCCCCCT			
5339	P	C	S	ATGACGTGGCAGACGGACTCCACCAGCTG			
5339	P	T	S	CGCGCCGAGGAGACTCCACCAGCTG			
5339	T	C	S	GGTGCAGCTGGTGGAGTCCGGGGGAGGCTTGGTCCAGCCTGGG			
5339	T	T	S	GGTGCAGCTGGTGGAGTCTGGGGGAGGCTTGGTCCAGCCTGGG			
5339	IS	[CT]		TTCTGACCAGGGTGTCTCTGTGTTTGCAGGTGTCCAGTGTGAGGTGCAGCTGGTGGAGTC[CT]GGGGGAGGCTTGGTCCAGCCTGGGGGGTCCCTGAAACTCT CCTGTGCAGCCTCTGGGTTC	ctg17003	14	
5344	I		S	CAACAAGGAAAACCCAGCTCAGCCCCAAA			
5344	P	A	S	CGCGCCGAGGTTCCATGGTGAGTCCTC			
5344	P	G	S	ATGACGTGGCAGACCTCCATGGTGAGTCCT			
5344	T	A	S	CACAGAGGACTCACCATGGAATTGGGGCTGAGCTGGGTTTTCCTTGTTGCT			
5344	T	G	S	CACAGAGGACTCACCATGGAGTTGGGGCTGAGCTGGGTTTTCCTTGTTGCT			
5344	IS	[AG]		CTGGACTCCAAGGCCTTTCCACTTGGTGATCAGCACTGAGCACAGAGGACTCACCATGGA[AG]TTGGGGCTGAGCTGGGTTTTCCTTGTTGCTATTTTAGAAGGT GATTCATGGAAAACTAGG	ctg17003	14	
5368	I		S	CCAGCTCTCAGTCAGACCCTGGCCTA			
5368	P	A	S	CGCGCCGAGGTTTGTGGCTCTGACTTCT			
5368	P	G	S	ATGACGTGGCAGACCTTGTGGCTCTGACTTC			
5368	T	A	S	GGGGAGAAGTCAGAGCCACAAAAGGCCAGGGTCTGACTGAGAGCTGGGC			
5368	T	G	S	GGGGAGAAGTCAGAGCCACAAGAGGCCAGGGTCTGACTGAGAGCTGGGC			
5368	IS	[AG]		GAATCAGTGGATCCGCCAATCCTGAGGAGACACGGGGAGGGGGAGAAGTCAGAGCCACAA[AG]AGGCCAGGGTCTGACTGAGAGCTGGGCCCCAGGGATCTAT GAGGAAAGGGCTGGGGGCTC	ctg16920	19	
5375	I		A	TTCCTCATTCTAAAGCTGTTCTCTGCACAGTCCACGA			
5375	P	T	A	CGCGCCGAGGTACATCTCTATTTTCACCCTCCA			
5375	P	C	A	ATGACGTGGCAGACCACATCTATTTTCACCCTCC			
5375	T	T	A	GATATGGAGGGTGAAAATAGATGTACGTGGACTGTGCAGAGAACAGCTTTAGAATGAGGAAAT			

FIGURE 129B

5375	T	C	A	GATATGGAGGGTGAAAATAGATGTGCGTGGACTGTGCAGAGAACAGCTTTAGAATGAGGAAAT			
5375	IS	[TC]		AGAAATTAAAAAGATCCTGACAATTTCCTCATTCTAAAGCTGTTCTCTGCACAGTCCACG[TC]ACATCTATTTTCACCCTCCATATCCTCCTCTTGTGCTTCCTCCCA TGTGTCCCTCCACAG	ctg16667	15	
5378	I		S	TAACAACAACAAAATTTAAAATACAATAAAAAAGAGAAAAAGAAAAAAGGTTATCTAAAA			
5378	P	A	S	CGCGCCGAGGTAGATAGAAGGCTACATCATTTTT			
5378	P	G	S	ATGACGTGGCAGACCAGATAGAAGGCTACATCATTT			
5378	T	A	S	TTAGAAAAATGATGTAGCCTTCTATCTATTTAGATAACCTTTTTTTCTTTTTCTCTTTTTTATTGTATTTTAAATTTTGTTGTTGTTA			
5378	T	G	S	TTAGAAAAATGATGTAGCCTTCTATCTGTTTAGATAACCTTTTTTTCTTTTTCTCTTTTTTATTGTATTTTAAATTTTGTTGTTGTTA			
5378	IS	[AG]		GGAACATTGACTCCTTTCAGCATTGCTTTCCCTTTAGAAAAATGATGTAGCCTTCTATCT[AG]TTTAGATAACCTTTTTTTCTTTTTCTCTTTTTTATTGTATTTTAAAT TTTGTTGTTGTTA			
5386	I		S	GCACTTTGGGAGGACGAAAGAGGTGGTGGT			
5386	P	C	S	ATGACGTGGCAGACGGGTCAGGAGTTCAAGA			
5386	P	T	S	CGCGCCGAGGAGGTCAGGAGTTCAAGAC			
5386	T	C	S	GCTGGTCTTGAACTCCTGACCCCCACCACCTCTTTTCGTCCTCCCAAAGTGCTG			
5386	T	T	S	GCTGGTCTTGAACTCCTGACCTCCACCACCTCTTTCGTCCTCCCAAAGTGCTG			
5386	IS	[CT]		ATATTTTTAGTAGAGATGGTGTTTCGCCATGTTGGCCAGGCTGGTCTTGAACTCCTGACC[CT]CCACCACCTCTTTCGTCCTCCCAAAGTGCTGGGATTACATGCA TGAACCACCGTGCCTGG	MULTIPLE	MULTIPLE	
5392	I		A	CCTTGGGTCCCCTTACATGAGCAAGTCTCTCATCTATAAT			
5392	P	C	A	CGCGCCGAGGCAGGGATAGTAATAATTCATAACTAATAC			
5392	P	G	A	ATGACGTGGCAGACGAGGGATAGTAATAATTCATAACTAATAC			
5392	T	C	A	ATGAGTATTAGTTATGAATTATTACTATCCCTGTTATAGATGAGAGACTTGCTCATGTAAGGGGACCCAAGGGT			
5392	T	G	A	ATGAGTATTAGTTATGAATTATTACTATCCCTCTTATAGATGAGAGACTTGCTCATGTAAGGGGACCCAAGGGT			
5392	IS	[CG]		GGTTGCAAAGCCTGGTTTCACCCTTGGGTCCCCTTACATGAGCAAGTCTCTCATCTATAA[CG]AGGGATAGTAATAATTCATAACTAATACTCATAGCACTGTGTGA TGATTCTATAAAACCG	ctg14007	17	
5458	I		S	CCTATAGAAACCCTTTTTGGATCCATACCCCTTTGAGTTTAGCTAA			
5458	P	A	S	CGCGCCGAGGTTCCGTATTCTCTAGTTTCTG			
5458	P	G	S	ATGACGTGGCAGACCTCCGTATTCTCTAGTTTCTG			
5458	T	A	S	CAGGCAGAAACTAGAGAATACGGAATAGCTAAACTCAAAGGGGTATGGATCCAAAAAGGGTTTCTATAGGCA			
5458	T	G	S	CAGGCAGAAACTAGAGAATACGGAGTAGCTAAACTCAAAGGGGTATGGATCCAAAAAGGGTTTCTATAGGCA			
5458	IS	[AG]		GACAGGGAATGGAGTGTGGGAAGGGTTTGATGGACTCAGGCAGAAACTAGAGAATACGGA[AG]TAGCTAAACTCAAAGGGGTATGGATCCAAAAAGGGTTTCTAT AGGCATGAGTAGCTAAGT	ctg22fin4	22	
5461	I		S	CAGCCTCCCCCACTCTTCCTTCCTTCCA			
5461	P	G	S	ATGACGTGGCAGACCTCCCACCTTCCTCATT			
5461	P	A	S	CGCGCCGAGGTTCCCACCTTCCTCATT			
5461	T	G	S	GAGAAATGAGGAAGGTGGGAGGGAAGGAAGGAAGAAGTGGGGGAGGCTGGA			
5461	T	A	S	GAGAAATGAGGAAGGTGGGAAGGAAGGAAGGAAGAAGTGGGGGAGGCTGGA			
5461	IS	[GA]		CAGGGAGAGAAGAAAGGAGCAAAGGAGGGAGGAAGGGAGGGAGAAATGAGGAAGGTGGGA[GA]GGAAGGAAGGAAGAGTGGGGGAGGCTGGAAGATCCAGCC TGACACATGGAGCCTGTGGGT			
5463	I		S	CTTCATGGAGGGAGAGTGGAGGTTGTGCCA			
5463	P	A	S	CGCGCCGAGGTGGAGCAACATGTTACTTG			
5463	P	G	S	ATGACGTGGCAGACCGGAGCAACATGTTACTT			
5463	T	A	S	TGGTCAAGTAACATGTTGCTCCAGGCACAACCTCCACTCTCCCTCCATGAAGCC			
5463	T	G	S	TGGTCAAGTAACATGTTGCTCCGGGCACAACCTCCACTCTCCCTCCATGAAGCC			
5463	IS	[AG]		CGTGCAGGCCCCGCCAGCCCCACGGCACAGTTACAAGCTGGTCAAGTAACATGTTGCTCC[AG]GGCACAACCTCCACTCTCCCTCCATGAAGCCCACCCTCACCC TGTGGGAGAGGCCTGCCA	ctg17207	19	
5465	I		A	GGTCACAGGTTAAGCTCACAGCCTCCATGGA			
5465	P	C	A	ATGACGTGGCAGACCCTCCCTGGGATTTAAGT			
5465	P	T	A	CGCGCCGAGGTCTCCCTGGGATTTAAGTT			
5465	T	C	A	CAGCAACTTAAATCCCAGGGAGGCCATGGAGGCTGTGAGCTTAACCTGTGACCCT			
5465	T	T	A	CAGCAACTTAAATCCCAGGGAGACCATGGAGGCTGTGAGCTTAACCTGTGACCCT			
5465	IS	[CT]		ACCACAGGTAGCTTGCGTCTGGAGTCTCAGGGTCACAGGTTAAGCTCACAGCCTCCATGG[CT]CTCCCTGGGATTTAAGTTGCTGCTGGAGATGGAGGGCTTAG GAGTCTCCACTGTGCAGAA	ctg15842	19	
5471	I		S	ACTCCCACTGACATGTCTGTCCATGACCCAT			
5471	P	C	S	ATGACGTGGCAGACGCACTGCTGCTCAATT			
5471	P	T	S	CGCGCCGAGGACACTGCTGCTCAATTG			
5471	T	C	S	GTGTCAATTGAGCAGCAGTGCTGGGTCATGGACAGACATGTCAGTGGGAGTCA			
5471	T	T	S	GTGTCAATTGAGCAGCAGTGTTGGGTCATGGACAGACATGTCAGTGGGAGTCA			
5471	IS	[CT]		GGCCACCTGCTCAGTCTTAGGGAAGCATAGACTTTCTCAAGTGTCAATTGAGCAGCAGTG[CT]TGGGTCATGGACAGACATGTCAGTGGGAGTCACAGCGCCTGG TACCCCTCCAGTCCCTCA	ctg15842	19	
5512	I		A	TGCTTATGATTCATAAAAGTCTGAGGCCAAATGAATGGTAT			
5512	P	G	A	ATGACGTGGCAGACGACTAAATCAGACTTCTACTTTTATAATY			
5512	P	A	A	CGCGCCGAGGAACTAAATCAGACTTCTACTTTTATAATTY			
5512	T	G	A	TTAAAATTATAAAAGTAGAAGTCTGATTTAGTCTACCATTCATTTGGCCTCAGACTTTTATGAATCATAAGCAAA			
5512	T	A	A	TTAAAATTATAAAAGTAGAAGTCTGATTTAGTTTACCATTCATTTGGCCTCAGACTTTTATGAATCATAAGCAAA			
5512	IS	[GA]		TATCACTTTTGTGTTTCATTTGCTTATGATTCATAAAAGTCTGAGGCCAAATGAATGGTA[GA]ACTAAATCAGACTTCTACTTTTATAATTTTAATCAGCTTTTCTCTC ATCTGTATATAAAC	ctg19247	7	
5545	I		S	GCTGATTGAAACTTTCAACGCTGACCTCTGAATCCAAATGTACC			
5545	P	C	S	ATGACGTGGCAGACGTATTGTTCCACAGGTACTGY			
5545	P	A	S	CGCGCCGAGGTTATTGTTCCACAGGTACTGY			
5545	T	C	S	TTTCCAGTACCTGTGGAACAATACGTACATTTGGATTCAGAGGTCAGCGTTGAAAGTTTCAATCAGCAA			
5545	T	A	S	TTTCCAGTACCTGTGGAACAATAAGTACATTTGGATTCAGAGGTCAGCGTTGAAAGTTTCAATCAGCAA			
5545	IS	[CA]		TACCTGTGCTCAGCCGTTTAGGTGACAAATGTTTGTTTTTCCAGTACCTGTGGAACAATA[CA]GTACATTTGGATTCAGAGGTCAGCGTTGAAAGTTTCAATCAGCA AGGTCTATCTGACTGG	MULTIPLE	18	
5605	I		A	CCCACACAGGGTTCCCAGGGCTA			
5605	P	T	A	CGCGCCGAGGTTCTCTGTTTTCTGTACTCTGY			
5605	P	C	A	ATGACGTGGCAGACCTCTCTGTTTTCTGTACTCTGY			
5605	T	T	A	GAGACAGAGTACAGAAAACAGAGAAAGCCCTGGGAACCCTGTGTGGGCA			
5605	T	C	A	GAGACAGAGTACAGAAAACAGAGAGAGCCCTGGGAACCCTGTGTGGGCA			
5605	IS	[TC]		TCACAGGACAGAGGGGCATTTTCCCTAGTAATGTTGTGCCCACACAGGGTTCCCAGGGCT[TC]TCTCTGTTTTCTGTACTCTGTCTCTCCTTTCAGGCAAATGGCA GCTGGCAAGAGGCTGTG	ctg15907	6	
5606	I		A	AGCCTCAGACTCCTTCCCTGCACAACTCTA			
5606	P	C	A	ATGACGTGGCAGACCCAAGAAACCAGACCTTAAGY			
5606	P	T	A	CGCGCCGAGGTCAAGAAACCAGACCTTAAGY			
5606	T	C	A	CAAGCTTAAGGTCTGGTTTCTTGGAGAGTTGTGCAGGGAAGGAGTCTGAGGCTGT			
5606	T	T	A	CAAGCTTAAGGTCTGGTTTCTTGAAGAGTTGTGCAGGGAAGGAGTCTGAGGCTGT			
5606	IS	[CT]		TACTAATTGTTTCCCATGGGGGCCTGGACACAGCCTCAGACTCCTTCCCTGCACAACTCT[CT]CAAGAAACCAGACCTTAAGCTTGAAGTGAAACCAATTTCTACTC CTGTTCTGGTCTTTTC	ctg17129	17	
5613	I		A	GCTGGTGCCTCTGGAGTTGTGAAGTACAAAATGTCT			
5613	P	A	A	CGCGCCGAGGACAATCCTACCCCTGTGY			
5613	P	G	A	ATGACGTGGCAGACGCAATCCTACCCCTGTY			
5613	T	A	A	TTTGCACAGGGGTAGGATTGTGACATTTTGTACTTCACAACTCCAGAGGCACCAGCCA			
5613	T	G	A	TTTGCACAGGGGTAGGATTGCGACATTTTGTACTTCACAACTCCAGAGGCACCAGCCA			
5613	IS	[AG]		ATCTGCTCAGCTAGGAATTCCTCTGGCTGGTGCCTCTGGAGTTGTGAAGTACAAAATGTC[AG]CAATCCTACCCCTGTGCAAAGCATGTTATTCTCACTGCTCTGT GGGGCACATTTTAGACA	ctg16335	2	
5627	I		A	CTTCACTGGCGAGAGATGCCAGGCCT			
5627	P	C	A	ATGACGTGGCAGACCAGCTTGAAGACCCTTGY			
5627	P	A	A	CGCGCCGAGGAAGCTTGAAGACCCTTGY			
5627	T	C	A	AGGACAAGGGTCTTCAAGCTGGGCCTGGCATCTCTCGCCAGTGAAGCC			
5627	T	A	A	AGGACAAGGGTCTTCAAGCTTGGCCTGGCATCTCTCGCCAGTGAAGCC			

FIGURE 129B

				TTGACACCCAGCTTCTTGTGCACTTGCCTCCCTGGCTTCACTGGCGAGAGATGCCAGGCC[CA]AGCTTGAAGACCCTTGTCCTCCCTCCTTCTGTTCCAAAAGGG			
5627	IS	[CA]		GCCGCTGCCACATCCAGG	ctg15907	6	NOTCH4
5633	I		A	AGGAGAGTTGTTCACACCAAGCTCATTTACTTGTGATGGTATTTA			
5633	P	T	A	CGCGCCGAGGTATAGCAAACATGTTTAAGTTGTATTY			
5633	P	C	A	ATGACGTGGCAGACCATAGCAAACATGTTTAAGTTGTY			
5633	T	T	A	TGATAATACAACTTAAACATGTTTGCTATAAAATACCATCACAAGTAAATGAGCTTGGTGTGAACAACTCTCCTTT			
5633	T	C	A	TGATAATACAACTTAAACATGTTTGCTATGAAATACCATCACAAGTAAATGAGCTTGGTGTGAACAACTCTCCTTT			
				TCCTAAGGCATCACAAAGGAGAGTTGTTCACACCAAGCTCATTTACTTGTGATGGTATTT[TC]ATAGCAAACATGTTTAAGTTGTATTATCAATGGTTGGACTCTGCC			
5633	IS	[TC]		TTACTGGAATAGTAA	ctg16537	20	PLCB4
5663	I		A	CGGCTGTCTGAGCCCCTAATCTCCAAGTCAGT			
5663	P	A	A	CGCGCCGAGGAGTGGTTCATTTGCCCY			
5663	P	G	A	ATGACGTGGCAGACGGTGGTTCATTTGCCCY			
5663	T	A	A	ATCTGGGCAAATGAACCACTCTGACTTGGAGATTAGGGGCTCAGACAGCCGTG			
5663	T	G	A	ATCTGGGCAAATGAACCACCCTGACTTGGAGATTAGGGGCTCAGACAGCCGTG			
				AATAAGTAGTAGAGCTGGACTCTCATCCACGGCTGTCTGAGCCCCTAATCTCCAAGTCAG[AG]GTGGTTCATTTGCCCAGATGACGACCTTTAGTTGTGAAAATGA			
5663	IS	[AG]		*CTCTGGCCTTTGCAGT	ctg13915	12	
5667	I		A	ACCTTTGCTTACTCCTTTTCTGACATTCTTCCTTTCTTTTCATACTGCA			
5667	P	T	A	CGCGCCGAGGTGAGTTTCTGACCTATAGCAY			
5667	P	C	A	ATGACGTGGCAGACCGAGTTTCTGACCTATAGCY			
5667	T	T	A	AGATTGCTATAGGTCAGAAACTCAGCAGTATGAAAAGAAAGGAAGAATGTCAGAAAAGGAGTAAGCAAAGGTAA			
5667	T	C	A	AGATTGCTATAGGTCAGAAACTCGGCAGTATGAAAAGAAAGGAAGAATGTCAGAAAAGGAGTAAGCAAAGGTAA			
				GGAATTTGTTTTACCTTTGCTTACTCCTTTTCTGACATTCTTCCTTTCTTTTCATACTGC[TC]GAGTTTCTGACCTATAGCAATCTCCTTCTGCCTGAAAGGCTTCTTT			
5667	IS	[TC]		TAGTGTTCCTTACA	ctg15907	6	
5683	I		A	CAGAGCCCAGATCAAGATGGTCAAAGTAACAAAAAGGGAA			
5683	P	T	A	CGCGCCGAGGTCTGCCGGCTTGTY			
5683	P	C	A	ATGACGTGGCAGACCCTGCCGGCTTGTY			
5683	T	T	A	TTACACAAGCCGGCAGATCCCTTTTTGTTACTTTGACCATCTTGATCTGGGCTCTGTA			
5683	T	C	A	TTACACAAGCCGGCAGGTCCCTTTTTGTTACTTTGACCATCTTGATCTGGGCTCTGTA			
				CCTCAGGACTGGTCCGTCATACAGAGCCCAGATCAAGATGGTCAAAGTAACAAAAAGGGA[TC]CTGCCGGCTTGTGTAACTGCAAAGTCTAGGAGGAGGCCTGGC			
5683	IS	[TC]		TTCAGGTGCCGGCTTGATC	ctg_na	NA	
5688	I		A	TGAGGTCAGGGCAGCTCATTGGCACAT			
5688	P	G	A	ATGACGTGGCAGACGTCTGGCCTCCTTGGY			
5688	P	A	A	CGCGCCGAGGATCTGGCCTCCTTGGY			
5688	T	G	A	GGAGCCAAGGAGGCCAGACTGTGCCAATGAGCTGCCCTGACCTCAGC			
5688	T	A	A	GGAGCCAAGGAGGCCAGATTGTGCCAATGAGCTGCCCTGACCTCAGC			
				GGGCATCCGAACCTCCCCTGTGGGGCAGTGGGGCTGAGGTCAGGGCAGCTCATTGGCACA[GA]TCTGGCCTCCTTGGCTCCCGAGCTCCTTCCCAAGTCCCCA			
5688	IS	[GA]		CTCACCTGTGATCTCGCCCT	ctg17450	X	
5692	I		A	CTGGTGGACTTACTTCTGGTTTCATTTTATAAAAGCAAATCCT			
5692	P	A	A	CGCGCCGAGGAGGTGTCCCAAAGCAY			
5692	P	C	A	ATGACGTGGCAGACCGGTGTCCCAAAGCY			
5692	T	A	A	TCCTTGCTTTGGGACACCTGGATTTGCTTTTATAAAATGAAACCAGAAGTAAGTCCACCAGTA			
5692	T	C	A	TCCTTGCTTTGGGACACCGGGATTTGCTTTTATAAAATGAAACCAGAAGTAAGTCCACCAGTA			
				GCTTTAACATCCTAATTACTGGTGGACTTACTTCTGGTTTCATTTTATAAAAGCAAATCC[AC]GGTGTCCCAAAGCAAGGAATTTAATCATTTTGTGTGACATGAAAG			
5692	IS	[AC]		TAAATCCAGTCCTGC	ctg17129	17	
5693	I		S	GTCCTTGTGGCCTTCCTCGAGGAGGACT			
5693	P	C	S	ATGACGTGGCAGACGGGGATGGCCTCCY			
5693	P	T	S	CGCGCCGAGGAGGGATGGCCTCCY			
5693	T	C	S	ACAGGGAGGCCATCCCCGTCCTCCTCGAGGAAGGCCACAAGGACCA			
5693	T	T	S	ACAGGGAGGCCATCCCTGTCCTCCTCGAGGAAGGCCACAAGGACCA			
				GGCCATCCCCCTCCTCCTCAAGGAAGGCCACAAGGACCACCCCAACAGGGAGGCCATCCC[CT]GTCCTCCTCGAGGAAGGCCACAAGGACCACCCCAACAGGGA			
5693	IS	[CT]		GGCCATCAGCAAGGTCCTC	ctg14210	12	MULTIPLE SHORT GENE NAMES
5848	I		S	CCTGATTTTCCTTTAATTTTACAAAAATCTCTACATATACTTACCTCGGTTATCAA			
5848	P	A	S	CGCGCCGAGGTATGAAGTGTCTAGAGAATTGAAG			
5848	P	G	S	ATGACGTGGCAGACCATGAAGTGTCTAGAGAATTGA			
5848	T	A	S	TTTTCTTCAATTCTCTAGACACTTCATATGATAACCGAGGTAAGTATATGTAGAGATTTTTGTAAAATTAAAGGAAAATCAGGCT			
5848	T	G	S	TTTTCTTCAATTCTCTAGACACTTCATGTGATAACCGAGGTAAGTATATGTAGAGATTTTTGTAAAATTAAAGGAAAATCAGGCT			
				AGTCTGTTTATGAGAAATTAAGAATCTTATAATTTTTCTTCAATTCTCTAGACACTTCA[TAG]TGATAACCGAGGTAAGTATATGTAGAGATTTTTGTAAAATTAAAGG			
5848	IS	[AG]		AAAATCAGGCTTCT	ctg15907	6	
5855	I		A	CTTGGCCCACAATTTCTCCAACAGAAAAAATGTACAGAACTTAATGAGC			
5855	P	G	A	ATGACGTGGCAGACGGCCCACATCCCC			
5855	P	T	A	CGCGCCGAGGTGCCCACATCCCC			
5855	T	G	A	GCTGGGGGATGTGGGCCCTCATTAAGTTCTGTACATTTTTTCTGTTGGAGAAATTGTGGGCCAAGTG			
5855	T	T	A	GCTGGGGGATGTGGGCACTCATTAAGTTCTGTACATTTTTTCTGTTGGAGAAATTGTGGGCCAAGTG			
				GAGACAGACCCACTTGGCCCACAATTTCTCCAACAGAAAAAATGTACAGAACTTAATGAG[GT]GCCCACATCCCCCAGCCATTCAGGATGCTGTCCGATAAGCCCA			
5855	IS	[GT]		CTTATTTCTCACTCCAC	ctg15907	6	
5863	I		S	ACATGCAGACTCAGCCCCTCCCCTGT			
5863	P	T	S	CGCGCCGAGGACTTCAGGACCAACGG			
5863	P	G	S	ATGACGTGGCAGACCCTTCAGGACCAACGG			
5863	T	T	S	TGTTCCGTTGGTCCTGAAGTCAGGGGAGGGGCTGAGTCTGCATGTGG			
5863	T	G	S	TGTTCCGTTGGTCCTGAAGGCAGGGGAGGGGCTGAGTCTGCATGTGG			
				AGGTATCTGGGACCCTGACTGCCTAGCAACCTGCAGCCTCTTGTTCCGTTGGTCCTGAAG[TG]CAGGGGAGGGGCTGAGTCTGCATGTGGAAGGGGGAAACTGA			
5863	IS	[TG]		GGCCAGGGGGCTCCCAGGA	ctg14391	11	
5868	I		A	GGCTTCGTCATTGCCTTCGGGTACAGCAA			
5868	P	C	A	ATGACGTGGCAGACCGTTTTTGTGCGTGC			
5868	P	T	A	CGCGCCGAGGTGTTTTTGTGCGTGCA			
5868	T	C	A	GACGTGCACGCACAAAAACGTGCTGTACCCGAAGGCAATGACGAAGCCCA			
5868	T	T	A	GACGTGCACGCACAAAAACATGCTGTACCCGAAGGCAATGACGAAGCCCA			
				CCTTCGCCAATTACCGCCTGTGGGAGGCCCTGGGCTTCGTCATTGCCTTCGGGTACAGCA[CT]GTTTTTGTGCGTGCACGTCAAGCTCTACATTCTGCTGGGGGT			
5868	IS	[CT]		CCTGAGCCTGACCATGGT	ctg13516	6	
5887	I		A	GCATCTTATTGTATTGGAGGGTGACCACCCTGGGT			
5887	P	G	A	ATGACGTGGCAGACGATGGGGTGTTGGCA			
5887	P	C	A	CGCGCCGAGGCATGGGGTGTTGGC			
5887	T	G	A	CCCCTGCCAACACCCCATCCCCAGGGTGGTCACCCTCCAATACAATAAGATGCCA			
5887	T	C	A	CCCCTGCCAACACCCCATGCCCAGGGTGGTCACCCTCCAATACAATAAGATGCCA			
				TCAGAAAGGGCAACTTACTCTTCCTGGCATCTTATTGTATTGGAGGGTGACCACCCTGGG[GC]ATGGGGTGTTGGCAGGGGTCAAAAAGCTTATTTCTTTTAATCT			
5887	IS	[GC]		CTTACTCAACGAACACA	ctg15907	6	UBD
5891	I		A	GGCAGAGAAACTTCTTCCCCAAAGGCCCAAAT			
5891	P	G	A	ATGACGTGGCAGACGGAATGGGGAAATCTCAC			
5891	P	C	A	CGCGCCGAGGCGAATGGGGAAATCTCAC			
5891	T	G	A	ACCTGTGAGATTTCCCCATTCCTTTGGGCCTTTGGGGAAGAAGTTTCTCTGCCAC			
5891	T	C	A	ACCTGTGAGATTTCCCCATTCGTTTGGGCCTTTGGGGAAGAAGTTTCTCTGCCAC			
				AAGAAGACATTTGGGAGCCTTTCCAGAGTGGCAGAGAAACTTCTTCCCCAAAGGCCCAAA[GC]GAATGGGGAAATCTCACAGGTGTCCCCAGTAGACAAGTATTC			
5891	IS	[GC]		CCAACTGAAGGGACTACA	ctg15478	1	
5897	I		A	CTCAACCCAGGAATGATTTTTATTTTTGTTTTTTTCCAATTTTTTTTTTTTGTGCTCCTT			
5897	P	A	A	CGCGCCGAGGATAGCTGAGTTTTAAAAATCACAA			
5897	P	G	A	ATGACGTGGCAGACGTAGCTGAGTTTTAAAAATCACA			
5897	T	A	A	AGTGTTGTGATTTTTAAAACTCAGCTATAGGAGCACAAAAAAAAAAAATTGGAAAAAAACAAAAATAAAAATCATTCCTGGGTTGAGCT			
5897	T	G	A	AGTGTTGTGATTTTTAAAACTCAGCTACAGGAGCACAAAAAAAAAAAATTGGAAAAAAACAAAAATAAAAATCATTCCTGGGTTGAGCT			

FIGURE 129B

				AGCTCAACCCAGGAATGATTTTTATTTTTGTTTTTTTCCAATTTTTTTTTTTGTGCTCCT[AG]TAGCTGAGTTTTAAAAATCACAACACTCATAAGTCAAAAACTGGTT			
5897	IS	[AG]		TTGACACCCACCTG			
5906	I		S	TCACTTGGGTTAGGGGGAGACCCCTGATTTTT			
5906	P	T	S	CGCGCCGAGGATTTATTCATGCTAGGGATGGY			
5906	P	G	S	ATGACGTGGCAGACCTTTATTCATGCTAGGGATGGY			
5906	T	T	S	ATTACCATCCCTAGCATGAATAAATAAAATCAGGGGTCTCCCCCTAACCCAAGTGAGG			
5906	T	G	S	ATTACCATCCCTAGCATGAATAAAGAAAATCAGGGGTCTCCCCCTAACCCAAGTGAGG			
				TCTTCTTTAGAAAGCCCAGGACCTAGAGAACAAGGTATTACCATCCCTAGCATGAATAAA[TG]AAAATCAGGGGTCTCCCCCTAACCCAAGTGAGGGCTCCAGGGA			
5906	IS	[TG]		CACAAGCTTTGAAAATA		ctg15907	6
5951	I		A	CCCCAAGAGTATGTGCACTGCAAAAGGGACTT			
5951	P	G	A	ATGACGTGGCAGACGCAGGCCTCTCTCTC			
5951	P	C	A	CGCGCCGAGGCCAGGCCTCTCTCTC			
5951	T	G	A	GAAGGAGAGAGAGGCCTGCAGTCCCTTTTGCAGTGCACATACTCTTGGGGTG			
5951	T	C	A	GAAGGAGAGAGAGGCCTGGAGTCCCTTTTGCAGTGCACATACTCTTGGGGTG			
				CCTGATCACTGCTCTCTTGGAAGACCTCACCCCAAGAGTATGTGCACTGCAAAAGGGACT[GC]CAGGCCTCTCTCTCCTTCTTTCAGAATCCTTCACGCCCGACCA			
5951	IS	[GC]		CAAGCCCCTGATGGGGG		ctg15330	9
5956	I		S	CGGCCCCCAAACACCCCTGGAGT			
5956	P	T	S	CGCGCCGAGGATCACAACCACAAAGATGC			
5956	P	C	S	ATGACGTGGCAGACGTCACAACCACAAAGATG			
5956	T	T	S	TTGCGCATCTTTGTGGTTGTGATCTCCAGGGGTGTTTGGGGGCCGAT			
5956	T	C	S	TTGCGCATCTTTGTGGTTGTGACCTCCAGGGGTGTTTGGGGGCCGAT			
				TAAAATAAAACAGACGTTTTGGTGAAATGGCTTTGCATTTGCGCATCTTTGTGGTTGTGA[TC]CTCCAGGGGTGTTTGGGGGCCGATGGAAGGGGGCATCAAAGT			
5956	IS	[TC]		CCTGTGGTGTAGTGATGT		ctg15140	12
5967	I		S	GCTCTCCACAGTTTCCCATCCTTTCTCAAGCTGT			
5967	P	C	S	ATGACGTGGCAGACGTTCCAGAGCCACTGT			
5967	P	T	S	CGCGCCGAGGATTCCAGAGCCACTGT			
5967	T	C	S	AGCCACAGTGGCTCTGGAACCAGCTTGAGAAAGGATGGGAAACTGTGGAGAGCAC			
5967	T	T	S	AGCCACAGTGGCTCTGGAATCAGCTTGAGAAAGGATGGGAAACTGTGGAGAGCAC			
				TGTGAGTGCCCAGCTACAATTCACTGAAAAACAGGAACTTAAGCCACAGTGGCTCTGGAA[CT]CAGCTTGAGAAAGGATGGGAAACTGTGGAGAGCACTCAGGAA			
5967	IS	[CT]		ACCACAAACCACCCTCGG		ctg15478	1
5979	I		S	GCGCCCTCAGCCTGCCTCACAA			
5979	P	G	S	ATGACGTGGCAGACCCGTACACACAAAGCTG			
5979	P	A	S	CGCGCCGAGGTCGTACACACAAAGCTG			
5979	T	G	S	GCCTCAGCTTTGTGTGTACGGTGTGAGGCAGGCTGAGGGCGCAC			
5979	T	A	S	GCCTCAGCTTTGTGTGTACGATGTGAGGCAGGCTGAGGGCGCAC			
				TTCTGTTTTCTGTGCCTTGTAAGATGGCAACTAACAGTACGCCTCAGCTTTGTGTGTACG[GA]TGTGAGGCAGGCTGAGGGCGCACCCACCACTTTCACCGTCAC			
5979	IS	[GA]		CTAATTATTGCTAAGCTC		ctg22fin4	22
5985	I		A	TGCACCCCATTGTACTGTCAGAAACCTTTTGGTATGTCC			
5985	P	A	A	CGCGCCGAGGACATCTTACTCACCTTTATACG			
5985	P	T	A	ATGACGTGGCAGACTCATCTTACTCACCTTTATACG			
5985	T	A	A	TGAACGTATAAAGGTGAGTAAGATGTGACATACCAAAAGGTTTCTGACAGTACAATGGGGTGCAAA			
5985	T	T	A	TGAACGTATAAAGGTGAGTAAGATGAGACATACCAAAAGGTTTCTGACAGTACAATGGGGTGCAAA			
				CTCCACTGTGTGCCATTATGTTTGCACCCCATTGTACTGTCAGAAACCTTTTGGTATGTC[AT]CATCTTACTCACCTTTATACGTTCAGCAGAATGGGTATTCACCAA			
5985	IS	[AT]		TGTCAGGCTGAAGTG		ctg15665	20
6001	I		A	CCTCCCTTCCTGCATCCCCTTTCCTTTCCT			
6001	P	G	A	ATGACGTGGCAGACGGTTCACATTGAGCAGG			
6001	P	C	A	CGCGCCGAGGCGTTCACATTGAGCAGG			
6001	T	G	A	TATGCCTGCTCAATGTGAACCGGAAAGGAAAGGGGATGCAGGAAGGGAGGGA			
6001	T	C	A	TATGCCTGCTCAATGTGAACGGGAAAGGAAAGGGGATGCAGGAAGGGAGGGA			
				TATTGACTCCAACTCAACTTTTCCCCCAGTCCCTCCCTTCCTGCATCCCCTTTCCTTTCC[GC]GTTCACATTGAGCAGGCATATGAAACGATGGGTCTGTGCTCCCT			
6001	IS	[GC]		TTGACATACACTCATG		ctg13980	1
6005	I		S	GATCTCAGCTTCTTCTTCTGTCAATTGGGGAAAAAGACTGGT			
6005	P	G	S	ATGACGTGGCAGACCCCTATCTGACTTCCAAGA			
6005	P	T	S	CGCGCCGAGGACCTATCTGACTTCCAAGAT			
6005	T	G	S	GAAGATCTTGGAAGTCAGATAGGGCCAGTCTTTTTCCCCAATTGACAGAAGAAGAAGCTGAGATCTA			
6005	T	T	S	GAAGATCTTGGAAGTCAGATAGGTCCAGTCTTTTTCCCCAATTGACAGAAGAAGAAGCTGAGATCTA			
				AAGAGCACCTCTCGTATCTATTCTCATTTCCCATTATGAAGATCTTGGAAGTCAGATAGG[GT]CCAGTCTTTTTCCCCAATTGACAGAAGAAGAAGCTGAGATCTAG			
6005	IS	[GT]		GAGCCAAAGGAGTGAG		ctg16537	20
6110	I		S	CAGCATGCTGCAGTAAGAATTCGGCCTCTCAAC			
6110	P	A	S	CGCGCCGAGGTCAGTCTTGTAGTAGTGAAGT			
6110	P	C	S	ATGACGTGGCAGACGCAGTCTTGTAGTAGTGAAG			
6110	T	A	S	CAGAACTTCACTACTACAAGACTGATTGAGAGGCCGAATTCTTACTGCAGCATGCTGGG			
6110	T	C	S	CAGAACTTCACTACTACAAGACTGCTTGAGAGGCCGAATTCTTACTGCAGCATGCTGGG			
				TGAATTTGAGTATTTTGAATTAGAATATAATGATAGCAGAACTTCACTACTACAAGACTG[AC]TTGAGAGGCCGAATTCTTACTGCAGCATGCTGGGGGAGAAGTAA			
6110	IS	[AC]		GACCCTAAGTGTGAAG		ctg22fin3	22
6134	I		S	CGCCATGCACGCCTGGCTAATTTTTTGTATTTTAGTACAGT			
6134	P	C	S	ATGACGTGGCAGACGTGGGGTTTCACCTTG			
6134	P	T	S	CGCGCCGAGGATGGGGTTTCACCTTGT			
6134	T	C	S	GGCAACAAGGTGAAACCCCACCTGTACTAAAATACAAAAAATTAGCCAGGCGTGCATGGCGGT			
6134	T	T	S	GGCAACAAGGTGAAACCCCATCTGTACTAAAATACAAAAAATTAGCCAGGCGTGCATGGCGGT			
				CGGGCGGATTGCCTGAGCTCAGGGGTTAGAGACCAGTCTGGGCAACAAGGTGAAACCCCA[CT]CTGTACTAAAATACAAAAAATTAGCCAGGCGTGCATGGCGGT			
6134	IS	[CT]		GTGTGTCTGTAGTCCCAG		ctg15665	20
6139	I		S	GCACAGAAGGTTATGTCCAGGTCCAGAAAAAACCAACTT			
6139	P	T	S	CGCGCCGAGGACAACCAAATAGCTGATGC			
6139	P	C	S	ATGACGTGGCAGACGCAACCAAATAGCTGATG			
6139	T	T	S	TTGAGCATCAGCTATTTGGTTGTAGTTGGTTTTTTCTGGACCTGGACATAACCTTCTGTGCCG			
6139	T	C	S	TTGAGCATCAGCTATTTGGTTGCAGTTGGTTTTTTCTGGACCTGGACATAACCTTCTGTGCCG			
				AATGTGTGGTGAGGTGGATGCTTATCCTTGCATAGTCCTTGAGCATCAGCTATTTGGTTG[TC]AGTTGGTTTTTTCTGGACCTGGACATAACCTTCTGTGCCGTGT			
6139	IS	[TC]		TCCTGTGTCTCCAGCAG		ctg14243	19
6182	I		S	TCTGGCCCACTTTCCCACCCTGAAATTGGA			
6182	P	A	S	CGCGCCGAGGTTTCCAGAAATGAAAGCGA			
6182	P	G	S	ATGACGTGGCAGACCTTCCAGAAATGAAAGCGA			
6182	T	A	S	GCCATCGCTTTCATTTCTGGAAACCAATTTCAGGGTGGGAAAGTGGGCCAGATT			
6182	T	G	S	GCCATCGCTTTCATTTCTGGAAGCCAATTTCAGGGTGGGAAAGTGGGCCAGATT			
				TCGGTCTTGAGTTCCGCGATTTTGGGAATGTAGTTCAGGCCATCGCTTTCATTTCTGGAA[AG]CCAATTTCAGGGTGGGAAAGTGGGCCAGATTATTCCTCGTCAA			
6182	IS	[AG]		ATGAGTCTCCCAGAGGC		ctg15590	7
6210	I		S	CGCAATGTCCCTTGGGAAGCCCCCT			
6210	P	C	S	ATGACGTGGCAGACGTCCCCAGCTCCC			
6210	P	T	S	CGCGCCGAGGATCCCCAGCTCCCA			
6210	T	C	S	CACATGGGAGCTGGGGACGGGGGCTTCCCAAGGGACATTGCGTC			
6210	T	T	S	CACATGGGAGCTGGGGATGGGGGCTTCCCAAGGGACATTGCGTC			
				GCTCCAGCAATTCTGTGCTGCATCTGTGGATGCTGATGTCTTCCACATGGGAGCTGGGGA[CT]GGGGGCTTCCCAAGGGACATTGCGTCATCCCTCTCCCCTTCC			
6210	IS	[CT]		AAGAATGGTCTAGAGGAT		ctg15144	12
6216	I		A	CTCTGTCACATGGGCCATATTTGCTCAGCCTA			
6216	P	T	A	CGCGCCGAGGTCCCTCTATCCTGGAAGA			
6216	P	C	A	ATGACGTGGCAGACCCCCTCTATCCTGGAAG			
6216	T	T	A	GAGATCTTCCAGGATAGAGGGAAGGCTGAGCAAATATGGCCCATGTGACAGAGAG			
6216	T	C	A	GAGATCTTCCAGGATAGAGGGGAGGCTGAGCAAATATGGCCCATGTGACAGAGAG			

FIGURE 129B

				TCTCATTTCTCCAGTGAGGCTCTGTCACTCTCTGTCACATGGGCCATATTTGCTCAGCCT[TC]CCCTCTATCCTGGAAGATCTCCAAGGCCAGGGACTGTGTTTCA		
6216	IS	[TC]		TAAACTTGAATCCCTGC	ctg19262	19
6268	I		A	CCATCTCTGCTTCAGTCTGCCTTACAGGGGC		
6268	P	G	A	ATGACGTGGCAGACGACAGGGTTAATGACTTGAT		
6268	P	T	A	CGCGCCGAGGTACAGGGTTAATGACTTGATG		
6268	T	G	A	GCCCCATCAAGTCATTAACCCTGTCCCCCTGTAAGGCAGACTGAAGCAGAGATGGGA		
6268	T	T	A	GCCCCATCAAGTCATTAACCCTGTACCCCTGTAAGGCAGACTGAAGCAGAGATGGGA		
				TCAAAAATGGCCAGAACCACTGCCAGCCTCCCATCTCTGCTTCAGTCTGCCTTACAGGGG[GT]ACAGGGTTAATGACTTGATGGGGCCAACATCCCTTCCCTCATA		
6268	IS	[GT]		AACCAGGCTGCCGGCTT	ctg22fin4	22
6274	I		S	CGCTGTGTTGCCCAGGCTGGTCTCT		
6274	P	T	S	CGCGCCGAGGAAAGTCCTGGTCTCAAAC		
6274	P	C	S	ATGACGTGGCAGACGAAGTCCTGGTCTCAAAC		
6274	T	T	S	GATTGTTTGAGACCAGGACTTTGAGACCAGCCTGGGCAACACAGCGAG		
6274	T	C	S	GATTGTTTGAGACCAGGACTTCGAGACCAGCCTGGGCAACACAGCGAG		
				GGTGTGGTAGCTATGCCTGTAATCCCAGCACTCTGGGAGGATTGTTTGAGACCAGGACTT[TC]GAGACCAGCCTGGGCAACACAGCGAGACCCCATCTCTACAAA		
6274	IS	[TC]		GATAAAAAATTAGCCAGG	ctg15279	10
6295	I		S	CTCAGGGACCCCCCAGGCTGGAA		
6295	P	G	S	ATGACGTGGCAGACCCAAGCCTCCTCCAG		
6295	P	A	S	CGCGCCGAGGTCAAGCCTCCTCCAG		
6295	T	G	S	GAGTCTGGAGGAGGCTTGGTCCAGCCTGGGGGGTCCCTGAGAC		
6295	T	A	S	GAGTCTGGAGGAGGCTTGATCCAGCCTGGGGGGTCCCTGAGAC		
				GTCTCTGTGTTTGCAGGTGTCCAGTGTGAGGTGCAGCTGGTGGAGTCTGGAGGAGGCTTG[GA]TCCAGCCTGGGGGGTCCCTGAGACTCTCCTGTGCAGCCTGT		
6295	IS	[GA]		GGGTTCACCGTCAGTAGCA	MULTIPLE	MULTIPLE
6332	I		S	GCGGTCATGGAGATCCCCGGGAGCA		
6332	P	G	S	ATGACGTGGCAGACCTGTGCAAGAAAGTCAAG		
6332	P	A	S	CGCGCCGAGGTTGTGCAAGAAAGTCAAGC		
6332	T	G	S	CTCAGCTTGACTTTCTTGCACAGGCTCCCGGGGATCTCCATGACCGCGG		
6332	T	A	S	CTCAGCTTGACTTTCTTGCACAAGCTCCCGGGGATCTCCATGACCGCGG		
				GCCTTCGTCCCCAGCTTACCCAGTTCTGCGCGTTATTGCTCAGCTTGACTTTCTTGCACA[GA]GCTCCCGGGGATCTCCATGACCGCGGAGCGCGCTGAGCAGC		
6332	IS	[GA]		CGGGGTTCTCTGCGCCGGG	ctg15540	4
6340	I		A	TGAGGAAACCGAGATTCAGACAAGTTCAGTGATTTT		
6340	P	G	A	ATGACGTGGCAGACGCTCCAATGGCACAGY		
6340	P	C	A	CGCGCCGAGGCCTCCAATGGCACAGAY		
6340	T	G	A	AACTTCTGTGCCATTGGAGCAAATCACTGAACTTGTCTGAATCTCGGTTTCCTCATC		
6340	T	C	A	AACTTCTGTGCCATTGGAGGAAATCACTGAACTTGTCTGAATCTCGGTTTCCTCATC		
				TATCTATCTGGACCAATTTTACAGATGAGGAAACCGAGATTCAGACAAGTTCAGTGATTT[GC]CTCCAATGGCACAGAAGTTGGTCAGGGTCAGATGGGAAGCTAG		
6340	IS	[GC]		AAAATAAAATTCTAATA	ctg15064	7
6358	I		A	ATTCCAATGAAATGAGGACCACTCTTGCTTCCCCTAAAGT		
6358	P	G	A	ATGACGTGGCAGACGCTTGCTTTGCTTGCY		
6358	P	C	A	CGCGCCGAGGCCTTGCTTTGCTTGCTY		
6358	T	G	A	GAAAAGCAAGCAAAGCAAGCCTTTAGGGGAAGCAAGAGTGGTCCTCATTTCATTGGAATGT		
6358	T	C	A	GAAAAGCAAGCAAAGCAAGGCTTTAGGGGAAGCAAGAGTGGTCCTCATTTCATTGGAATGT		
				GACTCTCTCAAGACACACGACATTCCAATGAAATGAGGACCACTCTTGCTTCCCCTAAAG[GC]CTTGCTTTGCTTGCTTTTCATTCATTCATTCATCTGTTCCTTCCT		
6358	IS	[GC]		TCCTTCCTTCATTTT	ctg22fin7	22
6431	I		S	GCTTGATAGTTGACTAGGAAGACTCCCAGAGCTCACTT		
6431	P	C	S	ATGACGTGGCAGACGAGAGCTGTGGCACAY		
6431	P	G	S	CGCGCCGAGGCAGAGCTGTGGCACAY		
6431	T	C	S	GCCATGTGCCACAGCTCTCAGTGAGCTCTGGGAGTCTTCCTAGTCAACTATCAAGCCT		
6431	T	G	S	GCCATGTGCCACAGCTCTGAGTGAGCTCTGGGAGTCTTCCTAGTCAACTATCAAGCCT		
				CCTTGGACAATTCTAACCTGTGTTCTTCTGGAAGGAGCCGCAGCCATGTGCCACAGCTCT[CG]AGTGAGCTCTGGGAGTCTTCCTAGTCAACTATCAAGCCTGAG		
6431	IS	[CG]		GGTGGTTTGGGGAACCCC	ctg18911	9
6433	I		A	GTGATTAGAGGTGCCAATGAAATAGTAAACAGGTGGAAGCCA		
6433	P	T	A	CGCGCCGAGGTCAAGAAGTGAACATCAATTAAGY		
6433	P	C	A	ATGACGTGGCAGACCCAAGAAGTGAACATCAATTAAGY		
6433	T	T	A	GTCACTTAATTGATGTTCACTTCTTGAGGCTTCCACCTGTTTACTATTTCATTGGCACCTCTAATCACAG		
6433	T	C	A	GTCACTTAATTGATGTTCACTTCTTGGGGCTTCCACCTGTTTACTATTTCATTGGCACCTCTAATCACAG		
				AGATCAGAAGGCTTGATCTGTGATTAGAGGTGCCAATGAAATAGTAAACAGGTGGAAGCC[TC]CAAGAAGTGAACATCAATTAAGTGACTCCAGTGTGAGAGTTGT		
6433	IS	[TC]		TCATGAACCTTAGGTCA	ctg17004	X
6434	I		S	TGCCAAAGCACTTCTTGTGTTTTGTTTTGTTTTTCAT		
6434	P	C	S	ATGACGTGGCAGACGTACATTCACTGAGTGATCCY		
6434	P	T	S	CGCGCCGAGGATACATTCACTGAGTGATCCY		
6434	T	C	S	TTTAGGATCACTCAGTGAATGTACTGAAAAAACAAAACAAAACACAAGAAGTGCTTTGGCAGA		
6434	T	T	S	TTTAGGATCACTCAGTGAATGTATTGAAAAAACAAAACAAAACACAAGAAGTGCTTTGGCAGA		
				TGACAGGGAAGGAAATTGAGGATGTTAGTAGAGATTATTTAGGATCACTCAGTGAATGTA[CT]TGAAAAAACAAAACAAAACACAAGAAGTGCTTTGGCAGATTTGA		
6434	IS	[CT]		ATTTAGAGGAAGATAA		
6435	I		A	CTTCCTATCCTAATTTTAGATTCTCTCCTACGTGATTTTGTTCATTTGCCCA		
6435	P	C	A	ATGACGTGGCAGACCATCTGCTCTCCACCAY		
6435	P	T	A	CGCGCCGAGGTATCTGCTCTCCACCAAGY		
6435	T	C	A	TCTTCTTGGTGGAGAGCAGATAGGGCAAATGAACAAAATCACGTAGGAGAGAATCTAAAATTAGGATAGGAAGTT		
6435	T	T	A	TCTTCTTGGTGGAGAGCAGATAGGGCAAATGAACAAAATCACGTAGGAGAGAATCTAAAATTAGGATAGGAAGTT		
				GAATAGTAACTTCCTATCCTAATTTTAGATTCTCTCCTACGTGATTTTGTTCATTTGCCC[CT]ATCTGCTCTCCACCAAGAAGAAGCATGAGCCTAGAAGACCCATTT		
6435	IS	[CT]		TATATTTCATTTCTG	ctg15064	7
6437	I		S	GCTCATTGTAGCATCAACACATATTTGAGAATGCATCATAA		
6437	P	A	S	CGCGCCGAGGTAATTCATGATGTATCAATGCTTTAY		
6437	P	G	S	ATGACGTGGCAGACCAATTCATGATGTATCAATGCTY		
6437	T	A	S	GCTGTAAAGCATTGATACATCATGAATTATATGATGCATTCTCAAATATGTGTTGATGCTACAATGAGCTA		
6437	T	G	S	GCTGTAAAGCATTGATACATCATGAATTGTATGATGCATTCTCAAATATGTGTTGATGCTACAATGAGCTA		
				GCACCTGAAAAAATAATAAGAACTTCCTCTTGGCTGTAAAGCATTGATACATCATGAATT[AG]TATGATGCATTCTCAAATATGTGTTGATGCTACAATGAGCTACAT		
6437	IS	[AG]		GTACTTTGTCAAACA	ctg19247	7
6451	I		S	CTTGAAAGAATTTTTCCCTTTTAATTAAACCTCTTGTATAGCTCAACCA		
6451	P	G	S	ATGACGTGGCAGACCTGCCTTTAAAGCTCTTTTTTY		
6451	P	A	S	CGCGCCGAGGTTGCCTTTAAAGCTCTTTTTTAY		
6451	T	G	S	TCACTAAAAAAGAGCTTTAAAGGCAGGGTTGAGCTATACAAGAGGTTTAATTAAAAGGGAAAAATTCTTTCAAGAG		
6451	T	A	S	TCACTAAAAAAGAGCTTTAAAGGCAAGGTTGAGCTATACAAGAGGTTTAATTAAAAGGGAAAAATTCTTTCAAGAG		
				CAGGATATGTCAAAGGAAGATTATTCTAAAGGATGTCACTAAAAAAGAGCTTTAAAGGCA[GA]GGTTGAGCTATACAAGAGGTTTAATTAAAAGGGAAAAATTCTTT		
6451	IS	[GA]		CAAGAGAGTTCTTTCA	ctg25099	7
6464	I		S	GGTTGTCCAACAGGTGTTTACTGCCCCACTATTATCTC		
6464	P	A	S	CGCGCCGAGGTGTTCAGAGTGATGTGCY		
6464	P	C	S	ATGACGTGGCAGACGGTTCAGAGTGATGTGCY		
6464	T	A	S	AGCTGCACATCACTCTGAACAAGATAATAGTGGGGCAGTAAACACCTGTTGGACAACCAG		
6464	T	C	S	AGCTGCACATCACTCTGAACCAGATAATAGTGGGGCAGTAAACACCTGTTGGACAACCAG		
				CGTGGCTTCGCTGGCTCCCACTTTGTCTCCAGTCTTGATCAGCTGCACATCACTCTGAAC[AC]AGATAATAGTGGGGCAGTAAACACCTGTTGGACAACCAGCAGA		
6464	IS	[AC]		TCCATGGCCACTAAAAG	ctg15140	12
6466	I		A	CAAAAAACAAATTATCGATTAATTTAGTATATGAAAATTTAAATATATGTTATCATTTCAT		
6466	P	G	A	ATGACGTGGCAGACGGTTTTATAGTCTTAGCTTCTCAY		
6466	P	A	A	CGCGCCGAGGAGTTTTATAGTCTTAGCTTCTCAAY		
6466	T	G	A	AAATTTGAGAAGCTAAGACTATAAAACCTGAAATGATAACATATATTTAAATTTTCATATACTAAATTAATCGATAATTTGTTTTTTG		
6466	T	A	A	AAATTTGAGAAGCTAAGACTATAAAACTTGAAATGATAACATATATTTAAATTTTCATATACTAAATTAATCGATAATTTGTTTTTTG		

FIGURE 129B

				CAAAAAACAAATTATCGATTAATTTAGTATATGAAAATTTAAATATATGTTATCATTTCA[GA]GTTTTATAGTCTTAGCTTCTCAAATTTGGAGGGAACAAATGTGGGA			
6466	IS	[GA]		TTAAAATTCTAAGA	ctg15064	7	
6480	I		S	CCAGAACATGTTGGGATGTCCCAGGATGCCC			
6480	P	A	S	CGCGCCGAGGTCACTCTGTTTAGCCCAY			
6480	P	C	S	ATGACGTGGCAGACGCACTCTGTTTAGCCCY			
6480	T	A	S	AAATTGGGCTAAACAGAGTGAGGCATCCTGGGACATCCCAACATGTTCTGGCA			
6480	T	C	S	AAATTGGGCTAAACAGAGTGCGGCATCCTGGGACATCCCAACATGTTCTGGCA			
				TTTATGATATGGTTATTAGCACCTGCGGGGAGGGAGGTTAAAATTGGGCTAAACAGAGTG[AC]GGCATCCTGGGACATCCCAACATGTTCTGGCAGCTTCAAGCTT			
6480	IS	[AC]		TGGTACCTCGTCTGCAA	ctg13740	5	
6490	I		A	CCCAAGCATCTTCCTACCTGATGGAAGTCACCCT			
6490	P	G	A	ATGACGTGGCAGACGCTTGCCGGATGTAAC			
6490	P	A	A	CGCGCCGAGGACTTGCCGGATGTAAC			
6490	T	G	A	GCTGGTTACATCCGGCAAGCGGGTGACTTCCATCAGGTAGGAAGATGCTTGGGAG			
6490	T	A	A	GCTGGTTACATCCGGCAAGTGGGTGACTTCCATCAGGTAGGAAGATGCTTGGGAG			
				CTCTCCCATTCCCACAACCTGCCTGCTCCCAAGCATCTTCCTACCTGATGGAAGTCACCC[GA]CTTGCCGGATGTAACCAGCCACTTCACTGTCAGATTTAAAGAT			
6490	IS	[GA]		CTTCCAAACTTTTTTTT			
6496	I		S	GCTGCAGAGCTCCTCCTCACCTTGTTTTTGTA			
6496	P	A	S	CGCGCCGAGGTCCACCAGATCTCACAG			
6496	P	G	S	ATGACGTGGCAGACCCCACCAGATCTCACA			
6496	T	A	S	AATGCTGTGAGATCTGGTGGAACAAAAACAAGGTGAGGAGGAGCTCTGCAGCCG			
6496	T	G	S	AATGCTGTGAGATCTGGTGGGACAAAAACAAGGTGAGGAGGAGCTCTGCAGCCG			
				ACAGGCATGACCTCCACCGGTGTGACTCGGGGTTTGCTGTAATGCTGTGAGATCTGGTGG[AG]ACAAAAACAAGGTGAGGAGGAGCTCTGCAGCCGCACCCTTG			
6496	IS	[AG]		CCTCTCCCCATCCCAGTCC	ctg19262	19	
6503	I		A	GGTCCTCGCCCGGGGGCAT			
6503	P	A	A	CGCGCCGAGGACTGCACGGCCAG			
6503	P	G	A	ATGACGTGGCAGACGCTGCACGGCCA			
6503	T	A	A	GCGGCTGGCCGTGCAGTTGCCCCCGGGCGAGGACCTG			
6503	T	G	A	GCGGCTGGCCGTGCAGCTGCCCCCGGGCGAGGACCTG			
				GGTTAAAGAAGTCCACCACGTGAACAGCCACCCAGTCGTTCAGGTCCTCGCCCGGGGGCA[AG]CTGCACGGCCAGCCGCAGGTCCAGCCCGGCGTTCAGCGAC			
6503	IS	[AG]		GCCTGCGCCTTCTTGTGCAG	clg_na	NA	
6513	I		A	GGCATTATCCCCCTAAGTCTCGTATGATATTCCCCATTCTT			
6513	P	G	A	ATGACGTGGCAGACGAGTCCAGAATACCTAGAAATTT			
6513	P	A	A	CGCGCCGAGGAAGTCCAGAATACCTAGAAATTT			
6513	T	G	A	TTCCAAATTTCTAGGTATTCTGGACTCAGAATGGGGAATATCATACGAGACTTAGGGGGATAATGCCCT			
6513	T	A	A	TTCCAAATTTCTAGGTATTCTGGACTTAGAATGGGGAATATCATACGAGACTTAGGGGGATAATGCCCT			
				CCTTAAAATAGGAAGATAAGGGCATTATCCCCCTAAGTCTCGTATGATATTCCCCATTCT[GA]AGTCCAGAATACCTAGAAATTTGGAATTTGGCTATTGCCGTGTC			
6513	IS	[GA]		TGGACTGTGAGTATGG	ctg22fin3	22	
6603	I		S	GGGGTGAGCATAGTTCCCAGCACCCTGATAT			
6603	P	C	S	ATGACGTGGCAGACGTTGACCGTTGCCTTTA			
6603	P	T	S	CGCGCCGAGGATTGACCGTTGCCTTTAT			
6603	T	C	S	AATCATAAAGGCAACGGTCAACTATCAGGGTGCTGGGAACTATGCTCACCCCTT			
6603	T	T	S	AATCATAAAGGCAACGGTCAATTATCAGGGTGCTGGGAACTATGCTCACCCCTT			
				AAATTTTAGGATTTTACTTTGATATACAAAGTATTGCAAAATCATAAAGGCAACGGTCAA[CT]TATCAGGGTGCTGGGAACTATGCTCACCCCTTTGGGAGCTCCCG			
6603	IS	[CT]		GTGGCTAAAAGGTAAA	ctg19247	7	
6629	I		A	GCTGACAGAGAAATCAATATAACTGGAGAGTTGTTTAGATTTATATGTCTGGGTTTTTC			
6629	P	T	A	CGCGCCGAGGTAATTCCATTGCTTAGAAAAGG			
6629	P	A	A	ATGACGTGGCAGACAAATTCCATTGCTTAGAAAAGG			
6629	T	T	A	AAATCCTTTTCTAAGCAATGGAATTAAAAAACCCAGACATATAAATCTAAACAACTCTCCAGTTATATTGATTTCTCTGTCAGCTT			
6629	T	A	A	AAATCCTTTTCTAAGCAATGGAATTTAAAAACCCAGACATATAAATCTAAACAACTCTCCAGTTATATTGATTTCTCTGTCAGCTT			
				AAGCTGACAGAGAAATCAATATAACTGGAGAGTTGTTTAGATTTATATGTCTGGGTTTTT[TA]AATTCCATTGCTTAGAAAAGGATTTCAAAAGAAGCAATCATATTAA			
6629	IS	[TA]		GTGAACACATGCAC	ctg15972	16	
6701	I		A	CCATGCATGATGTGCCAAGTACCATGTATATACCCTCAGTAT			
6701	P	A	A	CGCGCCGAGGAATTCTTAGAGCCACCCTY			
6701	P	G	A	ATGACGTGGCAGACGATTCTTAGAGCCACCCTY			
6701	T	A	A	CCTCAGGGTGGCTCTAAGAATTTACTGAGGGTATATACATGGTACTTGGCACATCATGCATGGCA			
6701	T	G	A	CCTCAGGGTGGCTCTAAGAATCTACTGAGGGTATATACATGGTACTTGGCACATCATGCATGGCA			
				TACCAATAAAACCCTATTGCCATGCATGATGTGCCAAGTACCATGTATATACCCTCAGTA[AG]ATTCTTAGAGCCACCCTGAGGTAAGCATTATTGTCCCATCACTT			
6701	IS	[AG]		TGGACTTGGAAACAAA	ctg14932	16	
6708	I		A	AGCAGCTTAGCCACAGTGTGGCATAGTCGA			
6708	P	T	A	CGCGCCGAGGTCTCCTTCCTGTTCACAAY			
6708	P	C	A	ATGACGTGGCAGACCCTCCTTCCTGTTCACAY			
6708	T	T	A	AGGTTTGTGAACAGGAAGGAGACGACTATGCCACACTGTGGCTAAGCTGCTGG			
6708	T	C	A	AGGTTTGTGAACAGGAAGGAGGCGACTATGCCACACTGTGGCTAAGCTGCTGG			
				GCAGCGGGACTCGGCCATGTATCGCTGTGCCAGCAGCTTAGCCACAGTGTGGCATAGTCG[TC]CTCCTTCCTGTTCACAAACCTCATCCTTCTCTCTCCTTGCAC			
6708	IS	[TC]		CTCCTAGAGACCCTTAAC	ctg18037	7	
6719	I		A	CCCTAGAGTTGCCCTGCATCCCACACCT			
6719	P	A	A	CGCGCCGAGGATCCCTCTCTGCAGCY			
6719	P	G	A	ATGACGTGGCAGACGTCCCTCTCTGCAGCY			
6719	T	A	A	GTCTGCTGCAGAGAGGGATGGTGTGGGATGCAGGGCAACTCTAGGGGT			
6719	T	G	A	GTCTGCTGCAGAGAGGGACGGTGTGGGATGCAGGGCAACTCTAGGGGT			
				CACCTTCTTTGCTGTTTCCCCAGTGCTGTCCACCCCTAGAGTTGCCCTGCATCCCACACC[AG]TCCCTCTCTGCAGCAGACTAGCCAAGGGGAAAGACAGCGGTC			
6719	IS	[AG]		AAGTTCCATGAATGCTGC	ctg15054	1	
6723	I		A	ACCCAGGTGGCCATCCAGCTGAATGAA			
6723	P	C	A	ATGACGTGGCAGACCACTCACCCTGCACTY			
6723	P	T	A	CGCGCCGAGGTACTCACCCTGCACTCY			
6723	T	C	A	TCGCGAGTGCAGGGTGAGTGTCATTCAGCTGGATGGCCACCTGGGTGG			
6723	T	T	A	TCGCGAGTGCAGGGTGAGTATCATTCAGCTGGATGGCCACCTGGGTGG			
				GCCATCCGTTGCCTTCATGTTGATGTCTTTCCCCACCCAGGTGGCCATCCAGCTGAATGA[CT]ACTCACCCTGCACTCGCGATCCCTGAGCTGATGAGGATTTTTG			
6723	IS	[CT]		TGGATATTGAAAAACTG	ctg16166	14	
6728	I		A	CTCTCCCCGACCCGTCCCACCAA			
6728	P	C	A	ATGACGTGGCAGACCGGTCTCCACAGCAY			
6728	P	T	A	CGCGCCGAGGTGGTCTCCACAGCACY			
6728	T	C	A	GGGAGTGCTGTGGAGACCGTGGTGGGACGGGTCGGGGAGAGTC			
6728	T	T	A	GGGAGTGCTGTGGAGACCATGGTGGGACGGGTCGGGGAGAGTC			
				CCGGTACAGCCCCATCCCACCCAGCCACCACCAGCTGACTCTCCCCGACCCGTCCCACCA[CT]GGTCTCCACAGCACTCCCGACAGCCCCGCCAAACCAGAGAA			
6728	IS	[CT]		GAATGGGCATGCCAAAGAC	ctg12325	11	DRD2
6732	I		S	GAGTGGTCCGGCGGAGCTGCTCC			
6732	P	C	S	ATGACGTGGCAGACGCCCTGAAGAAGCAGY			
6732	P	A	S	CGCGCCGAGGTCCCTGAAGAAGCAGCY			
6732	T	C	S	ACCTGCTGCTTCTTCAGGGCGAGCAGCTCCGCCGGACCACTCGC			
6732	T	A	S	ACCTGCTGCTTCTTCAGGGAGAGCAGCTCCGCCGGACCACTCGC			
				TCCTTCCCCCAGGCCACTGTGGGCTCGAGTAGGGGATGACCACCTGCTGCTTCTTCAGGG[CA]GAGCAGCTCCGCCGGACCACTCGCTCTGTTGTCCATCCCAA			
6732	IS	[CA]		GTACCACCAGGGCTCAGGC	ctg5212	19	
6733	I		S	CTTCACAGTGCCCGCCTCGTCCACT			
6733	P	C	S	ATGACGTGGCAGACGTAACCCAGGGTTCGGY			
6733	P	T	S	CGCGCCGAGGATAACCCAGGGTTCGGY			
6733	T	C	S	TGCTCCGAACCCTGGGTTACGTGGACGAGGCGGGCACTGTGAAGCT			
6733	T	T	S	TGCTCCGAACCCTGGGTTATGTGGACGAGGCGGGCACTGTGAAGCT			

FIGURE 129B

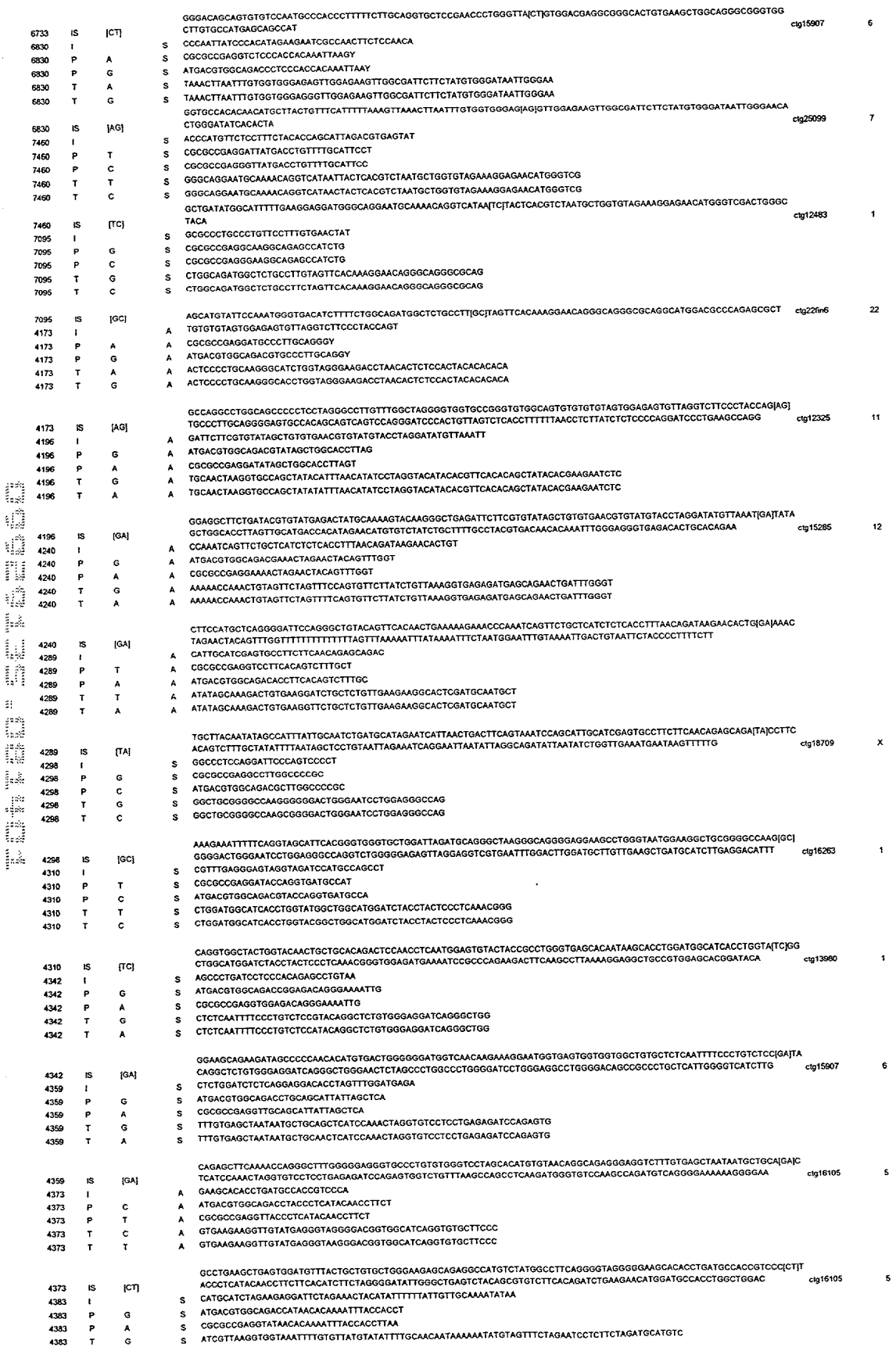

GGGACAGCAGTGTGTCCAATGCCCACCCTTTTTCTTGCAGGTGCTCCGAACCCTGGGTTA[CT]GTGGACGAGGCGGGCACTGTGAAGCTGGCAGGGCGGGTGG
CTTGTGCCATGAGCAGCCAT ctg15907 6
6733 IS [CT]
6830 I S CCCAATTATCCCACATAGAAGAATCGCCAACTTCTCCAACA
6830 P A S CGCGCCGAGGTCTCCCACCACAAATTAAGY
6830 P G S ATGACGTGGCAGACCCTCCCACCACAAATTAAY
6830 T A S TAAACTTAATTTGTGGTGGGAGAGTTGGAGAAGTTGGCGATTCTTCTATGTGGGATAATTGGGAA
6830 T G S TAAACTTAATTTGTGGTGGGAGGGTTGGAGAAGTTGGCGATTCTTCTATGTGGGATAATTGGGAA
GGTGCCACACAACATGCTTACTGTTTCATTTTTAAAGTTAAACTTAATTTGTGGTGGGAG[AG]GTTGGAGAAGTTGGCGATTCTTCTATGTGGGATAATTGGGAACA
CTGGGATATCACACTA ctg25099 7
6830 IS [AG]
7460 I S ACCCATGTTCTCCTTTCTACACCAGCATTAGACGTGAGTAT
7460 P T S CGCGCCGAGGATTATGACCTGTTTTGCATTCCT
7460 P C S CGCGCCGAGGGTTATGACCTGTTTTGCATTCC
7460 T T S GGGCAGGAATGCAAAACAGGTCATAATTACTCACGTCTAATGCTGGTGTAGAAAGGAGAACATGGGTCG
7460 T C S GGGCAGGAATGCAAAACAGGTCATAACTACTCACGTCTAATGCTGGTGTAGAAAGGAGAACATGGGTCG
GCTGATATGGCATTTTTGAAGGAGGATGGGCAGGAATGCAAAACAGGTCATAA[TC]TACTCACGTCTAATGCTGGTGTAGAAAGGAGAACATGGGTCGACTGGGC
TACA ctg12483 1
7460 IS [TC]
7095 I S GCGCCCTGCCCTGTTCCTTTGTGAACTAT
7095 P G S CGCGCCGAGGCAAGGCAGAGCCATCTG
7095 P C S CGCGCCGAGGGAAGGCAGAGCCATCTG
7095 T G S CTGGCAGATGGCTCTGCCTTGTAGTTCACAAAGGAACAGGGCAGGGCGCAG
7095 T C S CTGGCAGATGGCTCTGCCTTCTAGTTCACAAAGGAACAGGGCAGGGCGCAG
AGCATGTATTCCAAATGGGTGACATCTTTTCTGGCAGATGGCTCTGCCTT[GC]TAGTTCACAAAGGAACAGGGCAGGGCGCAGGCATGGACGCCCAGAGCGCT ctg22fin6 22
7095 IS [GC]
4173 I A TGTGTGTAGTGGAGAGTGTTAGGTCTTCCCTACCAGT
4173 P A A CGCGCCGAGGATGCCCTTGCAGGGY
4173 P G A ATGACGTGGCAGACGTGCCCTTGCAGGY
4173 T A A ACTCCCCTGCAAGGGCATCTGGTAGGGAAGACCTAACACTCTCCACTACACACACA
4173 T G A ACTCCCCTGCAAGGGCACCTGGTAGGGAAGACCTAACACTCTCCACTACACACACA
GCCAGGCCTGGCAGCCCCCTCCTAGGGCCTTGTTTGGCTAGGGGTGGTGCCGGGTGTGGCAGTGTGTGTGTAGTGGAGAGTGTTAGGTCTTCCCTACCAG[AG]
TGCCCTTGCAGGGGAGTGCCACAGCAGTCAGTCCAGGGATCCCACTGTTAGTCTCACCTTTTTTAACCTCTTATCTCTCCCCAGGATCCCTGAAGCCAGG ctg12325 11
4173 IS [AG]
4196 I A GATTCTTCGTGTATAGCTGTGTGAACGTGTATGTACCTAGGATATGTTAAATT
4196 P G A ATGACGTGGCAGACGTATAGCTGGCACCTTAG
4196 P A A CGCGCCGAGGATATAGCTGGCACCTTAGT
4196 T G A TGCAACTAAGGTGCCAGCTATACATTTAACATATCCTAGGTACATACACGTTCACACAGCTATACACGAAGAATCTC
4196 T A A TGCAACTAAGGTGCCAGCTATATATTTAACATATCCTAGGTACATACACGTTCACACAGCTATACACGAAGAATCTC
GGAGGCTTCTGATACGTGTATGAGACTATGCAAAAGTACAAGGGCTGAGATTCTTCGTGTATAGCTGTGTGAACGTGTATGTACCTAGGATATGTTAAAT[GA]TATA
GCTGGCACCTTAGTTGCATGACCACATAGAACATGTGTCTATCTGCTTTTGCCTACGTGACAACACAAATTTGGGAGGGTGAGACACTGCACAGAA ctg15285 12
4196 IS [GA]
4240 I A CCAAATCAGTTCTGCTCATCTCTCACCTTTAACAGATAAGAACACTGT
4240 P G A ATGACGTGGCAGACGAAACTAGAACTACAGTTTGGT
4240 P A A CGCGCCGAGGAAAACTAGAACTACAGTTTGGT
4240 T G A AAAAACCAAACTGTAGTTCTAGTTTCCAGTGTTCTTATCTGTTAAAGGTGAGAGATGAGCAGAACTGATTTGGGT
4240 T A A AAAAACCAAACTGTAGTTCTAGTTTTCAGTGTTCTTATCTGTTAAAGGTGAGAGATGAGCAGAACTGATTTGGGT
CTTCCATGCTCAGGGGATTCCAGGGCTGTACAGTTCACAACTGAAAAAGAAACCCAAATCAGTTCTGCTCATCTCTCACCTTTAACAGATAAGAACACTG[GA]AAAC
TAGAACTACAGTTTGGTTTTTTTTTTTTTTAGTTTAAAAATTTATAAAATTTCTAATGGAATTTGTAAAATTGACTGTAATTCTACCCCTTTTCTT
4240 IS [GA]
4289 I A CATTGCATCGAGTGCCTTCTTCAACAGAGCAGAC
4289 P T A CGCGCCGAGGTCCTTCACAGTCTTTGCT
4289 P A A ATGACGTGGCAGACACCTTCACAGTCTTTGC
4289 T T A ATATAGCAAAGACTGTGAAGGATCTGCTCTGTTGAAGAAGGCACTCGATGCAATGCT
4289 T A A ATATAGCAAAGACTGTGAAGGTTCTGCTCTGTTGAAGAAGGCACTCGATGCAATGCT
TGCTTACAATATAGCCATTTATTGCAATCTGATGCATAGAATCATTAACTGACTTCAGTAAATCCAGCATTGCATCGAGTGCCTTCTTCAACAGAGCAGA[TA]CCTTC
ACAGTCTTTGCTATATTTTAATAGCTCCTGTAATTAGAAATCAGGAATTAATATTAGGCAGATATTAATATCTGGTTGAAATGAATAAGTTTTTG ctg18709 X
4289 IS [TA]
4298 I S GGCCCTCCAGGATTCCCAGTCCCCT
4298 P G S CGCGCCGAGGCCTTGGCCCCGC
4298 P C S ATGACGTGGCAGACGCTTGGCCCCGC
4298 T G S GGCTGCGGGGCCAAGGGGGGACTGGGAATCCTGGAGGGCCAG
4298 T C S GGCTGCGGGGCCAAGCGGGGACTGGGAATCCTGGAGGGCCAG
AAAGAAATTTTTCAGGTAGCATTCACGGGTGGGTGCTGGATTAGATGCAGGGCTAAGGGCAGGGGAGGAAGCCTGGGTAATGGAAGGCTGCGGGGCCAAG[GC]
GGGGACTGGGAATCCTGGAGGGCCAGGTCTGGGGGAGAGTTAGGAGGTCGTGAATTTGGACTTGGATGCTTGTTGAAGCTGATGCATCTTGAGGACATTT ctg16263 1
4298 IS [GC]
4310 I S CGTTTGAGGGAGTAGGTAGATCCATGCCAGCCT
4310 P T S CGCGCCGAGGATACCAGGTGATGCCAT
4310 P C S ATGACGTGGCAGACGTACCAGGTGATGCCA
4310 T T S CTGGATGGCATCACCTGGTATGGCTGGCATGGATCTACCTACTCCCTCAAACGGG
4310 T C S CTGGATGGCATCACCTGGTACGGCTGGCATGGATCTACCTACTCCCTCAAACGGG
CAGGTGGCTACTGGTACAACTGCTGCACAGACTCCAACCTCAATGGAGTGTACTACCGCCTGGGTGAGCACAATAAGCACCTGGATGGCATCACCTGGTA[TC]GG
CTGGCATGGATCTACCTACTCCCTCAAACGGGTGGAGATGAAAATCCGCCCAGAAGACTTCAAGCCTTAAAAGGAGGCTGCCGTGGAGCACGGATACA ctg13960 1
4310 IS [TC]
4342 I S AGCCCTGATCCTCCCACAGAGCCTGTAA
4342 P G S ATGACGTGGCAGACCGGAGACAGGGAAAATTG
4342 P A S CGCGCCGAGGTGGAGACAGGGAAAATTG
4342 T G S CTCTCAATTTTCCCTGTCTCCGTACAGGCTCTGTGGGAGGATCAGGGCTGG
4342 T A S CTCTCAATTTTCCCTGTCTCCATACAGGCTCTGTGGGAGGATCAGGGCTGG
GGAAGCAGAAGATAGCCCCCAACACATGTGACTGGGGGGATGGTCAACAAGAAAGGAATGGTGAGTGGTGGTGGCTGTGCTCTCAATTTTCCCTGTCTCC[GA]TA
CAGGCTCTGTGGGAGGATCAGGGCTGGGAACTCTAGCCCTGGCCCTGGGGATCCTGGGAGGCCTGGGGACAGCCGCCCTGCTCATTGGGGTCATCTTG ctg15907 6
4342 IS [GA]
4359 I S CTCTGGATCTCTCAGGAGGACACCTAGTTTGGATGAGA
4359 P G S ATGACGTGGCAGACCTGCAGCATTATTAGCTCA
4359 P A S CGCGCCGAGGTTGCAGCATTATTAGCTCA
4359 T G S TTTGTGAGCTAATAATGCTGCAGCTCATCCAAACTAGGTGTCCTCCTGAGAGATCCAGAGTG
4359 T A S TTTGTGAGCTAATAATGCTGCAACTCATCCAAACTAGGTGTCCTCCTGAGAGATCCAGAGTG
CAGAGCTTCAAAACCAGGGCTTTGGGGGAGGGTGCCCTGTGTGGGTCCTAGCACATGTGTAACAGGCAGAGGGAGGTCTTTGTGAGCTAATAATGCTGCA[GA]C
TCATCCAAACTAGGTGTCCTCCTGAGAGATCCAGAGTGGTCTGTTTAAGCCAGCCTCAAGATGGGTGTCCAAGCCAGATGTCAGGGGAAAAAAGGGGAA ctg16105 5
4359 IS [GA]
4373 I A GAAGCACACCTGATGCCACCGTCCCA
4373 P C A ATGACGTGGCAGACCTACCCTCATACAACCTTCT
4373 P T A CGCGCCGAGGTTACCCTCATACAACCTTCT
4373 T C A GTGAAGAAGGTTGTATGAGGGTAGGGGACGGTGGCATCAGGTGTGCTTCCC
4373 T T A GTGAAGAAGGTTGTATGAGGGTAAGGGACGGTGGCATCAGGTGTGCTTCCC
GCCTGAAGCTGAGTGGATGTTTACTGCTGTGCTGGGAAGAGCAGAGGCCATGTCTATGGCCTTCAGGGGTAGGGGGAAGCACACCTGATGCCACCGTCCC[CT]T
ACCCTCATACAACCTTCTTCACATCTTCTAGGGGATATTGGGCTGAGTCTACAGCGTGTCTTCACAGATCTGAAGAACATGGATGCCACCTGGCTGGAC ctg16105 5
4373 IS [CT]
4383 I S CATGCATCTAGAAGAGGATTCTAGAAACTACATATTTTTTATTGTTGCAAAATATAA
4383 P G S ATGACGTGGCAGACCATAACACAAAATTTACCACCT
4383 P A S CGCGCCGAGGTATAACACAAAATTTACCACCTTAA
4383 T G S ATCGTTAAGGTGGTAAATTTTGTGTTATGTATATTTTGCAACAATAAAAAATATGTAGTTTCTAGAATCCTCTTCTAGATGCATGTC

FIGURE 129B

4383	T	A	S	ATCGTTAAGGTGGTAAATTTTGTGTTATATATATTTTGCAACAATAAAAAATATGTAGTTTCTAGAATCCTCTTCTAGATGCATGTC			
4383	IS	[GA]		GAGATGGGCGGTGGTGACGGTCGGTCGCACAGCGATATGACGTGCTTAATGCCACTGAACTGTGCACTGAACATCGTTAAGGTGGTAAATTTTGTGTTAT[GA]TA TATTTTGCAACAATAAAAAATATGTAGTTTCTAGAATCCTCTTCTAGATGCATGTCTGGCGTTTCTGCCGCGGGGCTGGCACTGGAGGAAGCCAGACA	ctg13934	8	
4422	I		S	TCACTCCCTCTCTCCAAAGATTCCAGGCCCA			
4422	P	G	S	ATGACGTGGCAGACCGGACTGGACCTGTAG			
4422	P	A	S	CGCGCCGAGGTGGACTGGACCTGTAGA			
4422	T	G	S	GGTATCTACAGGTCCAGTCCGGGGCCTGGAATCTTTGGAGAGAGGGAGTGAGT			
4422	T	A	S	GGTATCTACAGGTCCAGTCCAGGGCCTGGAATCTTTGGAGAGAGGGAGTGAGT			
4422	IS	[GA]		ATGGGCTTTACTGAAGAGGAGTTTAAAAGGCTGGTGAGTGGGTGTGAGCCATACTGGCCTTGACTCGGGTTTGGGAGTATGGTATCTACAGGTCCAGTCC[GA]G GGCCTGGAATCTTTGGAGAGAGGGAGTGAGTCTGCCTCAACAGTCCAAGACAAGCCCAACCTAGACACTTTCCACAGAGAAGACATCTTTGTGTTGACG	ctg15665	20	
4424	I		S	GGGTCTGTAGTGTAGCACCAGGGTCCCT			
4424	P	T	S	CGCGCCGAGGATGGTGCTGCTGTCG			
4424	P	C	S	ATGACGTGGCAGACGTGGTGCTGCTGTC			
4424	T	T	S	ACCCCGACAGCAGCACCATGGGACCCTGGTGCTACACTACAGACCCCA			
4424	T	C	S	ACCCCGACAGCAGCACCACGGGACCCTGGTGCTACACTACAGACCCCA			
4424	IS	[TC]		GCCTCCTGTTGGGCAATTTCCTCTTCCAGAATCAACTCCACTACCCATCCTGGGGCCGACCTACAGGAGAATTTCTGCCGCAACCCCGACAGCAGCACCA[TC]GG GACCCTGGTGCTACACTACAGACCCCACCGTGAGGAGGCAGGAATGCAGCATCCCTGTCTGTGGTAGGCTGGGGGCAGTGGGGCGACCCATGACCAAG			
4426	I		A	CTCCCAGCAGCTGCCACACACAAACACC			
4426	P	A	A	CGCGCCGAGGACCTCCAGGCACC			
4426	P	T	A	ATGACGTGGCAGACTCCTCCAGGCACC			
4426	T	A	A	CCAGGGTGCCTGGAGGTGTGTTTGTGTGTGGCAGCTGCTGGGAGGA			
4426	T	T	A	CCAGGGTGCCTGGAGGAGTGTTTGTGTGTGGCAGCTGCTGGGAGGA			
4426	IS	[AT]		TTCCGGGACAGGCGCAGGTCCTGGGAGGTGACAGAAGATAGACTAAAGGCCCAAGAGTCCCTGGACCTGACTCCTCCCAGCAGCTGCCACACACAAACAC[AT]C CTCCAGGCACCCTGGACAGGAAGGAGGAGAAATGGGCCCCTCCTCCAGTGGCTGAGAAGCTGGGGCAAATGTTGGCTGTTCCTATCCCTGGTGCATCCC			
4455	I		S	AAAAGCAGACACTATTGACTTTGCATGT			
4455	P	G	S	ATGACGTGGCAGACCCATCGACTGGTGAGA			
4455	P	T	S	CGCGCCGAGGACATCGACTGGTGAGAT			
4455	T	G	S	TACAATCTCACCAGTCGATGGCATGCAAAGTCAATAGTGTCTGCTTTT			
4455	T	T	S	TACAATCTCACCAGTCGATGTCATGCAAAGTCAATAGTGTCTGCTTTT			
4455	IS	[GT]		CGTTTGTGCTCCAATCTGCCCCTCTTGGGTTCCTGTCTATCTCCCTCCTCCTCCTGGAATAAATATCTTAGGTTCCTTTTTACAATCTCACCAGTCGATG[GT]CATG CAAAGTCAATAGTGTCTGCTTTT	ctg_na	NA	
4457	I		S	CGGCTCCTGCCACATCAAGTGGACGACT			
4457	P	C	S	ATGACGTGGCAGACGTTGTTCTCAAAGATTTCATGC			
4457	P	T	S	CGCGCCGAGGATTGTTCTCAAAGATTTCATGC			
4457	T	C	S	TGACGCATGAAATCTTTGAGAACAACGTCGTCCACTTGATGTGGCAGGAGCCGAA			
4457	T	T	S	TGACGCATGAAATCTTTGAGAACAATGTCGTCCACTTGATGTGGCAGGAGCCGAA			
4457	IS	[CT]		ATCTCATCCAAGAGTTACATCCCTGCCTCTCACTTCCTCTCCTTACAGCCAAGGCTGATGACATTGTTGGCCCTGTGACGCATGAAATCTTTGAGAACAA[CT]GTCG TCCACTTGATGTGGCAGGAGCCGAAGGAGCCCAATGGTCTGATCGTGCTGTATGAAGTGAGTTATCGGCGATATGGTGATGAGGTAAGGCCCTTGA	ctg_na	NA	
4489	I		S	ACAGCAGCCACTTCTGCTCTGTTCTTTATTTTGAAGTAATCTCTT			
4489	P	T	S	CGCGCCGAGGACAGAAAAGTTTCAAGAGTACT			
4489	P	C	S	ATGACGTGGCAGACGCAGAAAAGTTTCAAGAGTAC			
4489	T	T	S	CTGCAGTACTCTTGAAACTTTTCTGTAGAGATTACTTCAAAATAAAGAACAGAGCAGAAGTGGCTGCTGTTC			
4489	T	C	S	CTGCAGTACTCTTGAAACTTTTCTGCAGAGATTACTTCAAAATAAAGAACAGAGCAGAAGTGGCTGCTGTTC			
4489	IS	[TC]		AATAGAGAATGGTAAAGAAAATACAGCAAAATGTTAACATGCAGAGAATCTGGGTGACAAGTATATGGGAATTCTCTGCAGTACTCTTGAAACTTTTCTG[TC]AGAG ATTACTTCAAAATAAAGAACAGAGCAGAAGTGGCTGCTGTTCCTAAATTCCCTAAGTAAACTTACACTGCTTTTCAAACTGGGAGATGAATCCAC	ctg25114	1	
4500	I		A	ACTGTCGCTCCTTTTCCTTCCTTCTTCCTCACAT			
4500	P	A	A	CGCGCCGAGGACAGGTCTATAACAGTCACC			
4500	P	G	A	ATGACGTGGCAGACGCAGGTCTATAACAGTCAC			
4500	T	A	A	CAAGGGTGACTGTTATAGACCTGTTGTGAGGAAGAAGGAAGGAAAAGGAGCGACAGTGA			
4500	T	G	A	CAAGGGTGACTGTTATAGACCTGCTGTGAGGAAGAAGGAAGGAAAAGGAGCGACAGTGA			
4500	IS	[AG]		ACCCAGTGACAGAGTTTAGTCCTCTTTTCTCAGAATGAGCTCACCTCAGAAGAAACCCCAAGCCATCACTGTCGCTCCTTTTCCTTCCTTCTTCCTCACA[AG]CAGG TCTATAACAGTCACCCTTGGAGCCCATAACATAACAGAGGAAGAAGACACATGGCAGAAGCTTGAGGTTATAAAGCAATTCCGTCATCCAAAATAT	ctg53	14	
4501	I		A	TCCAACTGTCCAGAGCCCATTTCGAGACTGACT			
4501	P	G	A	ATGACGTGGCAGACGGTCCTTCATTCCCTTC			
4501	P	A	A	CGCGCCGAGGAGTCCTTCATTCCCTTCA			
4501	T	G	A	ACTGTGAAGGGAATGAAGGACCGTCAGTCTCGAAATGGGCTCTGGACAGTTGGAGG			
4501	T	A	A	ACTGTGAAGGGAATGAAGGACTGTCAGTCTCGAAATGGGCTCTGGACAGTTGGAGG			
4501	IS	[GA]		TGCCCTGAATTTTTCTTAAGGACTTGGCTATAACATGAAGCTACTCACCCTTGCCCTCCCTGATCACCTCCAACTGTCCAGAGCCCATTTCGAGACTGAC[GA]GTC CTTCATTCCCTTCACAGTTGAAGGAGAAAGCCAGCCTGACCCTGGCTGTGGGGACACTCCCCTTCCCATCACAATTCAACTTTGTCCCACCTGGGAG	ctg53	14	
4526	I		A	CCATGGTGAATTTCTCTCCACGCTAAGACCCCT			
4526	P	G	A	ATGACGTGGCAGACGGACAAGGGTGAAAAGC			
4526	P	A	A	CGCGCCGAGGAGACAAGGGTGAAAAGC			
4526	T	G	A	TCCTGCTTTTCACCCTTGTCCGGGGTCTTAGCGTGGAGAGAAATTCACCATGGGA			
4526	T	A	A	TCCTGCTTTTCACCCTTGTCTGGGGTCTTAGCGTGGAGAGAAATTCACCATGGGA			
4526	IS	[GA]		TTCTTACAAAAGACAAGCTACACTTTAAGAGATGGACAAAAAGATAAGATGGACAATCTGAGCACATCCCATGGTGAATTTCTCTCCACGCTAAGACCCC[GA]GACA AGGGTGAAAAGCAGGACCAAGGCCCAGAGAAGAAAAATTCTGCTCAAAATCATAACTGTTCAACCTTGCATACATTCTCTCTCTTAAACTGAAAGT	ctg16861	13	
4532	I		A	GGTGGGAGGCTGGGTTGGTGTGACT			
4532	P	A	A	CGCGCCGAGGACTCTGACCTCTTCCG			
4532	P	G	A	ATGACGTGGCAGACGCTCTGACCTCTTCCG			
4532	T	A	A	GCACCGGAAGAGGTCAGAGTGTCACACCAACCCAGCCTCCCACCCA			
4532	T	G	A	GCACCGGAAGAGGTCAGAGCGTCACACCAACCCAGCCTCCCACCCA			
4532	IS	[AG]		TCTTGTTTCTTCCCGCTCCCCAGGCCCCCTGCTCTTCTCCAGCCCAAGCCGAAGAATCCCCAGGAAGGAGAACGTGGGTGGGAGGCTGGGTTGGTGTGAC[AG]C TCTGACCTCTTCCGGTGCTGACCTCTCCTTATCGCTACCTGAATACAGACAAGGACGAGGGTGACCACCCCAACAACAGCTTCAGCCCCTGTAGCGCCC	ctg17036	17	
4564	I		S	CCTGGGCGACAAAGTGAGACTCTGTCTCAAAAAAAAAAAAAAAAAAAAAAAAAAAC			
4564	P	A	S	CGCGCCGAGGTACAGTAAGAAAGGGCTAGG			
4564	P	C	S	ATGACGTGGCAGACGACAGTAAGAAAGGGCTAG			
4564	T	A	S	CTTCCCTAGCCCTTTCTTACTGTATTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGAGACAGAGTCTCACTTTGTCGCCCAGGCT			
4564	T	C	S	CTTCCCTAGCCCTTTCTTACTGTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGAGACAGAGTCTCACTTTGTCGCCCAGGCT			
4564	IS	[AC]		CACCCCAGCTTCACTCCAACTCCTTCCCCGACACTCCCCACAACACATACAATACACATCCTCTGCCCCTCCCATAGCTTCCCTAGCCCTTTCTTACTGT[AC]TTTT TTTTTTTTTTTTTTTTTTTTTGAGACAGAGTCTCACTTTGTCGCCCAGGCTGGAGTGCAGTGGTGCAATCTTGGCTCACTGCAACCTCTGCCTCC			
4569	I		S	CCATCCTCTTCGGAGGCTTTGCACAA			
4569	P	A	S	CGCGCCGAGGTATTACTTTTCCTCTATGCATTGT			
4569	P	G	S	ATGACGTGGCAGACCATTACTTTTCCTCTATGCATTG			
4569	T	A	S	AATGACAATGCATAGAGGAAAAGTAATATGTGCAAAGCCTCCGAAGAGGATGGTT			
4569	T	G	S	AATGACAATGCATAGAGGAAAAGTAATGTGTGCAAAGCCTCCGAAGAGGATGGTT			
4569	IS	[AG]		TCTTAATCTAATCTTTTAGGAGTATATTTCAGAGAAATTCCAAGCACACCAGTATGACCATCCTTATTTCAGAAATGACAATGCATAGAGGAAAAGTAAT[AG]TGTGC AAAGCCTCCGAAGAGGATGGTTAAGTAAAGACTTAGGTTACCAGTATCAGGCTTTCGTTTTTGTATGTAGGTAGCTCTACTGCCTCCTCTTAAAA	ctg16306	4	NPY2R

FIGURE 129B

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4578  I          A  AGCACTTTTATGGCACAAATGATCACTATTTTCTTGACCCCTACTTACT
4578  P    G     A  ATGACGTGGCAGACGATCCTGGGAGATGTATTTG
4578  P    A     A  CGCGCCGAGGAATCCTGGGAGATGTATTTG
4578  T    G     A  AACCCAAATACATCTCCCAGGATCGTAAGTAGGGGTCAAGAAAATAGTGATCATTTGTGCCATAAAAGTGCTCA
4578  T    A     A  AACCCAAATACATCTCCCAGGATTGTAAGTAGGGGTCAAGAAAATAGTGATCATTTGTGCCATAAAAGTGCTCA

                     ATGTGTGTATGTTTTAATTGCAGTTTGAATGATATTGTTGCTGTGGGACCTGAGCACTTTTATGGCACAAATGATCACTATTTTCTTGACCCCTACTTAC[GA]ATCCT
4578  IS   [GA]       GGGAGATGTATTTGGGTTTAGCGTGGTCGTATGTTGTCTACTATAGTCCAAGTGAAGTTCGAGTGGTGGCAGAAGGATTTGATTTTGCTAATGGA   ctg19247   7
4591  I          A  GTCATCTTCACCATCATGATTGTTTACTTTCTCTTCTGGACTCCCTATAAA
4591  P    T     A  CGCGCCGAGGTATTGTCATTCTCCTGAACACY
4591  P    C     A  ATGACGTGGCAGACCATTGTCATTCTCCTGAACAY
4591  T    T     A  GAAGGTGTTCAGGAGAATGACAATATTATAGGGAGTCCAGAAGAGAAAGTAAACAATCATGATGGTGAAGATGACTC
4591  T    C     A  GAAGGTGTTCAGGAGAATGACAATGTTATAGGGAGTCCAGAAGAGAAAGTAAACAATCATGATGGTGAAGATGACTC

                     AAACCCTGCTTCGGTGTCGAAACGAGAAGAAGAGGCATAGGGCAGTGAGAGTCATCTTCACCATCATGATTGTTTACTTTCTCTTCTGGACTCCCTATAA[TC]ATTG
4591  IS   [TC]       TCATTCTCCTGAACACCTTCCAGGAATTCTTCGGCCTGAGTAACTGTGAAAGCACCAGTCAACTGGACCAAGCCACGCAGGTGACAGAGACTCTTG   ctg14493   3   CCR2
4601  I          A  GGGTAAACCTCCCCACATTGCCATGGCATTTATAT
4601  P    A     A  CGCGCCGAGGAACTGCCATGGCACTY
4601  P    C     A  ATGACGTGGCAGACCACTGCCATGGCACY
4601  T    A     A  CACCAGTGCCATGGCAGTTTATAAATGCCATGGCAATGTGGGGAGGTTTACCCTA
4601  T    C     A  CACCAGTGCCATGGCAGTGTATAAATGCCATGGCAATGTGGGGAGGTTTACCCTA

                     GAAAGGATTCAAGAGTGAGTGGGGAATTCGTGGAACTGAGGGCTCCTCCCCTTTTTAGACCATATAGGGTAAACCTCCCCACATTGCCATGGCATTTATA[AC]ACT
4601  IS   [AC]       GCCATGGCACTGGTGGGTGCTTCCTTTAACATGCTAATGCATTATAATTAGCGTAAAATGAGCAGTGAGGATGACCAGAGGTCGCTTTCTTTGCCAT   ctg15972   16
4603  I          A  CTCATCCTGTGACCGAGAATGCGGACA
4603  P    C     A  ATGACGTGGCAGACCCTCCTGGGAGTGCY
4603  P    T     A  CGCGCCGAGGTCTCCTGGGAGTGCAY
4603  T    C     A  GGGCTGCACTCCCAGGAGGGTCCGCATTCTCGGTCACAGGATGAGAT
4603  T    T     A  GGGCTGCACTCCCAGGAGAGTCCGCATTCTCGGTCACAGGATGAGAT

                     TTCACTGCATACTGTTTTATCAGTGGGGTCTTTGTGACCTCTATCGTATTAAACCAGTCTTGCCCAATTTCTATCTCATCCTGTGACCGAGAATGCGGAC[CT]CTCC
4603  IS   [CT]       TGGGAGTGCAGCCCAGCAGGTCTCAGCCTCATTTTACCCAGCCCCCTGTTCAAGATGGAGTCGCTCTGGTTCCAACGTCTCTAACGCGGGGCCCCT   ctg15972   16
4623  I          A  CGTTGTGAGTTGGAGGTGGTAAAAGGGCCTGT
4623  P    G     A  ATGACGTGGCAGACGGCACCAGCACATTCY
4623  P    C     A  CGCGCCGAGGCGCACCAGCACATTCY
4623  T    G     A  ACAAGAATGTGCTGGTGCCCAGGCCCTTTTACCACCTCCAACTCACAACGTC
4623  T    C     A  ACAAGAATGTGCTGGTGCGCAGGCCCTTTTACCACCTCCAACTCACAACGTC

                     GGACCTGCCTCTCCTCGTTGCCGCCTTCTTCTTCCTTGTCCTTGCTGTTTTGGGTGAGTCAGGAGAGGACGTTGTGAGTTGGAGGTGGTAAAAGGGCCTG[GC]G
4623  IS   [GC]       CACCAGCACATTCTTGTGTTATTTTTCATGCCTCTTTCAGGTGAGACATTAATCCCTCACTATTCTGGTCGTGTGATTGACATCCTGGGAGGTGATTTT   ctg15907   6
4629  I          S  GGATGGCTGGACAAACAAAATGTAGTATATACTACAATATACCTTCTCCCCTAAA
4629  P    G     S  ATGACGTGGCAGACCGGCTGAGAAGAGAACAY
4629  P    A     S  CGCGCCGAGGTGGCTGAGAAGAGAACAY
4629  T    G     S  GAGATGTTCTCTTCTCAGCCGTTAGGGGAGAAGGTATATTGTAGTATATACTACATTTTGTTTGTCCAGCCATCCAA
4629  T    A     S  GAGATGTTCTCTTCTCAGCCATTAGGGGAGAAGGTATATTGTAGTATATACTACATTTTGTTTGTCCAGCCATCCAA

                     ATGTAAGGGAACCCCAAAGGGAGAATAAAACTGACAGGTGAGGAGGCTTCCACATTTGTGGCTAGAGGATCCCCTAGAGAGAGATGTTCTCTTCTCAGCC[GA]TT
4629  IS   [GA]       AGGGGAGAAGGTATATTGTAGTATATACTACATTTTGTTTGTCCAGCCATCCAACAATGGATATTTGACTTCAGAAGATTCATGATTCTCCAGAACTG   ctg15907   6
4631  I          S  CCCACAGCTCAGCATCAGCATCTGCACT
4631  P    G     S  ATGACGTGGCAGACCCCCAAGTGCAGCAY
4631  P    T     S  CGCGCCGAGGACCCAAGTGCAGCAY
4631  T    G     S  CAGGTGCTGCACTTGGGGGTGCAGATGCTGATGCTGAGCTGTGGGCT
4631  T    T     S  CAGGTGCTGCACTTGGGTGTGCAGATGCTGATGCTGAGCTGTGGGCT

                     GGCCTTTGCAGCTCAGTCTCATAGAGGCAGAGAGGGGGAAAGAATGGGAAGATTCCCAGCCTCATCTCTTTCTTCTCCTCTTCCAGGTGCTGCACTTGGG[GT]GT
4631  IS   [GT]       GCAGATGCTGATGCTGAGCTGTGGGCTGCAGCAGATGCAGGATGGGGAGCTCACCCAGGGCAGCCTGCTTTCCTTTATGATCTACCAGGAGAGCGTGG   ctg15907   6
4634  I          A  CAGACTTACTCTTAGTGGTGAAGGTCGTGTCCCTGTAT
4634  P    A     A  CGCGCCGAGGACTTGATGTTTGCTGTTCCY
4634  P    G     A  ATGACGTGGCAGACGCTTGATGTTTGCTGTTCY
4634  T    A     A  CAGAGGAACAGCAAACATCAAGTTACAGGGACACGACCTTCACCACTAAGAGTAAGTCTGAT
4634  T    G     A  CAGAGGAACAGCAAACATCAAGCTACAGGGACACGACCTTCACCACTAAGAGTAAGTCTGAT

                     TGGAATATACACAGGTATCTTCTACAAATTGTAAGCTTGCTCCTTCAGTAAAAAAGAGAAAATCAGACTTACTCTTAGTGGTGAAGGTCGTGTCCCTGTA[AG]CTTG
4634  IS   [AG]       ATGTTTGCTGTTCCTCTGCCCTTTCCTCCATTCCTACGTCTCCTTCCCCACACACTGAATTCTTCAGCCTCCCTCTTGATCAAGAGTCTTTGTTTG   ctg15907   6
4637  I          S  CTGTCCCGCAGCCAGCTGGCTA
4637  P    A     S  CGCGCCGAGGTCCCTTCTCCCCTACAY
4637  P    G     S  ATGACGTGGCAGACCCCCTTCTCCCCTACY
4637  T    A     S  CAGATGTAGGGGAGAAGGGAAGCCAGCTGGCTGCGGGACAGAA
4637  T    G     S  CAGATGTAGGGGAGAAGGGGAGCCAGCTGGCTGCGGGACAGAA

                     AAGTACCTGCTGTGCACTTGTCCCTCCTTGTGTGTTGTCTGTGTCACTTGTATCTGAGGAAGGGAATTTCTCTGATTTCCTCAGATGTAGGGGAGAAGGG[AG]AGC
4637  IS   [AG]       CAGCTGGCTGCGGGACAGAAACAACGTCTGGCCATTGCCCGGGCCCTTGTACGAGACCCGCGGGTCCTCATCCTGGATGAGGCTACTAGTGCCCTAG   ctg15907   6
4693  I          A  ACAGATAAGCAGGGGCCCAATCAGCCCT
4693  P    A     A  CGCGCCGAGGAGAGTTGAAATCCTCGATCY
4693  P    C     A  ATGACGTGGCAGACCGAGTTGAAATCCTCGATCY
4693  T    A     A  ATCTGATCGAGGATTTCAACTCTGGGCTGATTGGGCCCCTGCTTATCTGTAA
4693  T    C     A  ATCTGATCGAGGATTTCAACTCGGGGCTGATTGGGCCCCTGCTTATCTGTAA

                     CCCATGACAGAACTCCTGACCATTCCAACATTTAGTTGTTGAATCTTTTGGTGGGGGTGTTCTTACCTTTTTTACAGATAAGCAGGGGCCCAATCAGCCC[AC]GAG
4693  IS   [AC]       TTGAAATCCTCGATCAGATTTTCATGGGAGTAATAGATGTGTGTGAGGCATGGAGGGTCATCATGGGTGGGTCCACTGTCCTCACTGATACTCCATT   ctg13446   1
4695  I          S  GAAAATTGTCTACAGAGAGTATGAACCATATTTTAAGAAAGAAAAACCACAT
4695  P    C     S  ATGACGTGGCAGACGTCTACCATTTCAGGTAAGCY
4695  P    T     S  CGCGCCGAGGATCTACCATTTCAGGTAAGCY
4695  T    C     S  TCAGGCTTACCTGAAATGGTAGACTGTGGTTTTTCTTTCTTAAAATATGGTTCATACTCTCTGTAGACAATTTTCTT
4695  T    T     S  TCAGGCTTACCTGAAATGGTAGATTGTGGTTTTTCTTTCTTAAAATATGGTTCATACTCTCTGTAGACAATTTTCTT

                     AGTAAATGGATATTTTAGATGCATGTGAATGCCAAATTACCCATAGAAATTTATCTTTAAAATTAAAAAAGTATATTTCAGGCTTACCTGAAATGGTAGA[CT]TGTGGT
4695  IS   [CT]       TTTTCTTTCTTAAAATATGGTTCATACTCTCTGTAGACAATTTTCTTAAAGGAAGTTACAGAAAGATTCAAACTGGAAATAAAATACAAAAACT   ctg13445   1
4842  I          S  CCTGGTTAGAGGATCTTCGCTTGGGCTCTTAGTT
4842  P    C     S  ATGACGTGGCAGACGGATGTTGAGGCCTG
4842  P    T     S  CGCGCCGAGGAGATGTTGAGGCCTGG
4842  T    C     S  CCTCCCAGGCCTCAACATCCACTAAGAGCCCAAGCGAAGATCCTCTAACCAGGAA
4842  T    T     S  CCTCCCAGGCCTCAACATCTACTAAGAGCCCAAGCGAAGATCCTCTAACCAGGAA

                     AAAAGGTGCCAAGAGCCACCAAGGTGAGAAAAATGCAAGTTCCTCCCAGGCCTCAACATC[CT]ACTAAGAGCCCAAGCGAAGATCCTCTAACCAGGAAGTCAGGG
4842  IS   [CT]       TCGTTGGTGCAGTTCCTG   ctg13414   X   MAGEB2
4843  I          A  TCTCTCAGGGTCTATCCTCCACTGTGCAGTCTCT
4843  P    G     A  ATGACGTGGCAGACGCACAGACCCTCTAATCA
4843  P    A     A  CGCGCCGAGGACACAGACCCTCTAATCAT
4843  T    G     A  CTTCATGATTAGAGGGTCTGTGCGAGACTGCACAGTGGAGGATAGACCCTGAGAGAAG
```

FIGURE 129B

4843	T	A	A	CTTCATGATTAGAGGGTCTGTGTGAGACTGCACAGTGGAGGATAGACCCTGAGAGAAG			
4843	IS	[GA]		ACAGCAAAATTGAGAAAAAGCAAAGCTTCTCTCAGGGTCTATCCTCCACTGTGCAGTCTC[GA]CACAGACCCTCTAATCATGAAGACAAATATGTTGGTGCAGTTCC TGATGGAAATGTACAA	ctg13414	X	MAGEB3
4844	I		S	CCATCAGGAACTGCACCAACATATTTGTCTTCATGT			
4844	P	T	S	CGCGCCGAGGATTAGAGGGTCTGTGCG			
4844	P	C	S	ATGACGTGGCAGACGTTAGAGGGTCTGTGCG			
4844	T	T	S	GTCTCGCACAGACCCTCTAATCATGAAGACAAATATGTTGGTGCAGTTCCTGATGGAA			
4844	T	C	S	GTCTCGCACAGACCCTCTAACCATGAAGACAAATATGTTGGTGCAGTTCCTGATGGAA			
4844	IS	[TC]		AAAAGCAAAGCTTCTCTCAGGGTCTATCCTCCACTGTGCAGTCTCGCACAGACCCTCTAA[TC]CATGAAGACAAATATGTTGGTGCAGTTCCTGATGGAAATGTAC AAGATGAAAAAGCCCAT	ctg13414	X	MAGEB3
4858	I		A	GTTCATCTTTGGTTTTGTGGGCAACATGCTGGTCT			
4858	P	G	A	ATGACGTGGCAGACGTCCTCATCTTAATAAACTGCA			
4858	P	A	A	CGCGCCGAGGATCCTCATCTTAATAAACTGCA			
4858	T	G	A	TTTTTGCAGTTTATTAAGATGAGGACGACCAGCATGTTGCCCACAAAACCAAAGATGAACAC			
4858	T	A	A	TTTTTGCAGTTTATTAAGATGAGGATGACCAGCATGTTGCCCACAAAACCAAAGATGAACAC			
4858	IS	[GA]		CTCCTGCCTCCGCTCTACTCGCTGGTGTTCATCTTTGGTTTTGTGGGCAACATGCTGGTC[GA]TCCTCATCTTAATAAACTGCAAAAAGCTGAAGTGCTTGACTGA CATTTACCTGCTCAACC	ctg14493	3	CCR2
4860	I		A	CCAAAAAATTCATTTTGCAGCCTAATCCAGGTTTTCTGTCACTA			
4860	P	T	A	CGCGCCGAGGTGCAACCTAAAGTTTTGATTG			
4860	P	C	A	ATGACGTGGCAGACCGCAACCTAAAGTTTTGATT			
4860	T	T	A	TTTCCAATCAAAACTTTAGGTTGCAAGTGACAGAAAACCTGGATTAGGCTGCAAAATGAATTTTTTGGCT			
4860	T	C	A	TTTCCAATCAAAACTTTAGGTTGCGAGTGACAGAAAACCTGGATTAGGCTGCAAAATGAATTTTTTGGCT			
4860	IS	[TC]		TTCTCAGTTACCATCAGCCAAAAAATTCATTTTGCAGCCTAATCCAGGTTTTCTGTCACT[TC]GCAACCTAAAGTTTTGATTGGAAATTAGTCTCTCACCGGAACCCA AACATGATTTCGTCA	ctg13921	8	
4865	I		S	CCTGAGCCAGACCCTCCAAGAATGGCAGA			
4865	P	G	S	ATGACGTGGCAGACCTCGGCTCTTACCTGGY			
4865	P	A	S	CGCGCCGAGGTTCGGCTCTTACCTGGY			
4865	T	G	S	CACTCCAGGTAAGAGCCGAGCTGCCATTCTTGGAGGGTCTGGCTCAGGGA			
4865	T	A	S	CACTCCAGGTAAGAGCCGAACTGCCATTCTTGGAGGGTCTGGCTCAGGGA			
4865	IS	[GA]		TTACTGATGGTGCTGCTCACATCTGTGGTCCAGGGCAGGGCCACTCCAGGTAAGAGCCGA[GA]CTGCCATTCTTGGAGGGTCTGGCTCAGGGAACAATTCCTAG GGGACGTTATCTTTAAGGG	ctg15907	6	
4868	I		S	CCTCCCTCCCTTCTCTCCTTAATTGTCCAAGGGT			
4868	P	T	S	CGCGCCGAGGATGTGGGCTCCTGC			
4868	P	C	S	ATGACGTGGCAGACGTGTGGGCTCCTGC			
4868	T	T	S	TGGAGCAGGAGCCCACATCCCTTGGACAATTAAGGAGAGAAGGGAGGGAGGGG			
4868	T	C	S	TGGAGCAGGAGCCCACACCCCTTGGACAATTAAGGAGAGAAGGGAGGGAGGGG			
4868	IS	[TC]		TGAGGATTCAGTGCTCACGAAGAATGCCTCTTATTCCCCAGGGTGGAGCAGGAGCCCACA[TC]CCCTTGGACAATTAAGGAGAGAAGGGAGGGAGGGGGATAGG TTTTAGCCCCTGAAGGCAT	ctg15907	6	
4875	I		S	CTGACAGCTGGCTCCCAGCCTCGA			
4875	P	A	S	CGCGCCGAGGTCTACCTCTGCAGAGC			
4875	P	G	S	ATGACGTGGCAGACCCTACCTCTGCAGAGC			
4875	T	A	S	CTTTGCTCTGCAGAGGTAGACGAGGCTGGGAGCCAGCTGTCAGGG			
4875	T	G	S	CTTTGCTCTGCAGAGGTAGGCGAGGCTGGGAGCCAGCTGTCAGGG			
4875	IS	[AG]		CATGCGTGCACACATGTGGCTATACCGTTCTCATCTTGGCCCTTTGCTCTGCAGAGGTAG[AG]CGAGGCTGGGAGCCAGCTGTCAGGGGGTCAGCGACAGGCAG TGGCGTTGGCCCGAGCATT	ctg15907	6	
4881	I		S	CCACCCAGAACCCATTCTGGAGAAAGGAAAAAAATGAGAA			
4881	P	A	S	CGCGCCGAGGTAGTAAAATCGTCAGCCTCT			
4881	P	G	S	ATGACGTGGCAGACCAGTAAAATCGTCAGCCT			
4881	T	A	S	CTGAAGAGGCTGACGATTTTACTATCTCATTTTTTTCCTTTCTCCAGAATGGGTTCTGGGTGGGT			
4881	T	G	S	CTGAAGAGGCTGACGATTTTACTGTCTCATTTTTTTCCTTTCTCCAGAATGGGTTCTGGGTGGGT			
4881	IS	[AG]		TAATGGGTACTTTCTGACTGAATTTTATGAACTCATTCTGAAGAGGCTGACGATTTTACT[AG]TCTCATTTTTTTCCTTTCTCCAGAATGGGTTCTGGGTGGGTCCC CTGGGTGGTGGCTCTG	ctg15907	6	
4884	I		A	CAAGGCACAGACTCTCCAGGTAAGAACAGAGCAATTT			
4884	P	G	A	ATGACGTGGCAGACGTTTTTTTCCAGTGTGTATGC			
4884	P	A	A	CGCGCCGAGGATTTTTTTCCAGTGTGTATGC			
4884	T	G	A	TCTTGCATACACACTGGAAAAAAACAATTGCTCTGTTCTTACCTGGAGAGTCTGTGCCTTGAG			
4884	T	A	A	TCTTGCATACACACTGGAAAAAAATAATTGCTCTGTTCTTACCTGGAGAGTCTGTGCCTTGAG			
4884	IS	[GA]		ACCCGACTGGATTCCTCCATGACTCAAGGCACAGACTCTCCAGGTAAGAACAGAGCAATT[GA]TTTTTTTCCAGTGTGTATGCAAGAATTGGCATGGGGGAGTGAT GCCTTTCTTTGTAAGTC	ctg15907	6	
4890	I		A	CGCAAACACAACAAAGCCCGCAGACATTCTC			
4890	P	G	A	ATGACGTGGCAGACGTCCCCACGAAGAAC			
4890	P	T	A	CGCGCCGAGGTTCCCCACGAAGAACG			
4890	T	G	A	CGTCCGTTCTTCGTGGGGACAGAATGTCTGCGGGCTTTGTTGTGTTTGCGCC			
4890	T	T	A	CGTCCGTTCTTCGTGGGGAAAGAATGTCTGCGGGCTTTGTTGTGTTTGCGCC			
4890	IS	[GT]		CTGACCAGTCAGGACACACAAGAGGCCCGGCGCAAACACAACAAAGCCCGCAGACATTCT[GT]TCCCCACGAAGAACGGACGCCACTCGACTTCCTAGCATCTTG ACGGGCTATCCAAGCGCG	ctg14747	2	
4895	I		S	GCCCAGGGCTGGAGCCTGGCA			
4895	P	A	S	CGCGCCGAGGTTCTCACCTTCCCTCC			
4895	P	G	S	ATGACGTGGCAGACCTCTCACCTTCCCTCC			
4895	T	A	S	GATTGGAGGGAAGGTGAGAAGCCAGGCTCCAGCCCTGGGCTC			
4895	T	G	S	GATTGGAGGGAAGGTGAGAGGCCAGGCTCCAGCCCTGGGCTC			
4895	IS	[AG]		AAGAGGGAGCCCAATAAGTTTTTTGTGCCTCGGACTGTGATGATTGGAGGGAAGGTGAGA[AG]GCCAGGCTCCAGCCCTGGGCTCCCGTCCTTTGATATATCCAG GTTGAGGTCAGCCCAGCT	ctg17042	11	
4916	I		A	CTGAGAACCAGTATGGCCAGAGGGCCACA			
4916	P	C	A	ATGACGTGGCAGACCGCCTTCAACCTGTC			
4916	P	T	A	CGCGCCGAGGTGCCTTCAACCTGTCT			
4916	T	C	A	CCACAGACAGGTTGAAGGCGGTGGCCCTCTGGCCATACTGGTTCTCAGCC			
4916	T	T	A	CCACAGACAGGTTGAAGGCAGTGGCCCTCTGGCCATACTGGTTCTCAGCC			
4916	IS	[CT]		ACCCGAGGATGATGGAGAGTACTGGTGTGTGGCTGAGAACCAGTATGGCCAGAGGGCCAC[CT]GCCTTCAACCTGTCTGTGGAGTGTGAGTACCTTCCGCTCCC CTATGCTGGGGATGGACGG	ctg16920	19	
4918	I		A	GGCCTACTGTATGCTTCTTTTCTTTTTCTCTCTTTTCAACTAAGTCACCT			
4918	P	G	A	ATGACGTGGCAGACGTCAATTTATTAAGATGGCCATAA			
4918	P	A	A	CGCGCCGAGGATCAATTTATTAAGATGGCCATAAC			
4918	T	G	A	AATAGTTATGGCCATCTTAATAAATTGACGGTGACTTAGTTGAAAAGAGAGAAAAAGAAAAGAAGCATACAGTAGGCCCA			
4918	T	A	A	AATAGTTATGGCCATCTTAATAAATTGATGGTGACTTAGTTGAAAAGAGAGAAAAAGAAAAGAAGCATACAGTAGGCCCA			
4918	IS	[GA]		TATTTGCTCTGGGCCTACTGTATGCTTCTTTTCTTTTTCTCTCTTTTCAACTAAGTCACC[GA]TCAATTTATTAAGATGGCCATAACTATTCAAAACCTATGCTGAGTT CCTCAAGGCAGGGT	ctg15907	6	
4920	I		A	GTCTCCAGAGTGGACACATCCATAAAGAGGCCAAAA			
4920	P	C	A	ATGACGTGGCAGACCCCAGTCAAGGTCTAAGC			
4920	P	T	A	CGCGCCGAGGTCCAGTCAAGGTCTAAGC			
4920	T	C	A	AGATGCTTAGACCTTGACTGGGTTTGGCCTCTTTATGGATGTGTCCACTCTGGAGACAC			
4920	T	T	A	AGATGCTTAGACCTTGACTGGATTTGGCCTCTTTATGGATGTGTCCACTCTGGAGACAC			
4920	IS	[CT]		ACCACTGACCAACAGGAAAGTTTGTGTCTCCAGAGTGGACACATCCATAAAGAGGCCAAA[CT]CCAGTCAAGGTCTAAGCATCTGATGGCTATAACTTTGCTTCTTT GAAAGATAATAAAAAG	ctg17036	17	KRTHA8
4921	I		A	GATCATAGACACCACACGTGGAGAAGGAGCCTAGT			
4921	P	A	A	CGCGCCGAGGAGCATGATGCTTTGTGT			
4921	P	G	A	ATGACGTGGCAGACGGCATGATGCTTTGTGT			
4921	T	A	A	TCACACACAAAGCATCATGCTCTAGGCTCCTTCTCCACGTGTGGTGTCTATGATCAT			
4921	T	G	A	TCACACACAAAGCATCATGCCCTAGGCTCCTTCTCCACGTGTGGTGTCTATGATCAT			

FIGURE 129B

				TTGGGTTCTTGGTTTCTCTTGGACATGATCATAGACACCACACGTGGAGAAGGAGCCTAG[AG]GCATGATGCTTTGTGTGTGAACTGTCTTCCTGTTCTCCTCAGA			
4921	IS	[AG]		TCCTGTGCAGCAAGGCC	ctg17036	17	
4928	I		S	AGTAGAGACGGGGTTTCGCCATGTTGGCT			
4928	P	G	S	ATGACGTGGCAGACCAGGCTGGTTTCTCAATC			
4928	P	T	S	CGCGCCGAGGAAGGCTGGTTTCTCAATC			
4928	T	G	S	TTAAGATTGAGAAACCAGCCTGGCCAACATGGCGAAACCCCGTCTCTACTAA			
4928	T	T	S	TTAAGATTGAGAAACCAGCCTTGCCAACATGGCGAAACCCCGTCTCTACTAA			
				CATGCCTGGGAGGAGTCGGCGGGTGGTGGGGGGGGTGATTTAAGATTGAGAAACCAGCCT[GT]GCCAACATGGCGAAACCCCGTCTCTACTAAAACTACAAAAA			
4928	IS	[GT]		TTAGCCGGACGTGGTGACG	ctg15907	6	
4929	I		S	CTTCAACAGACAATCCTATCCGGGGAATGGAGGAAAA			
4929	P	A	S	CGCGCCGAGGTGCTATAATTTTTAGACCTTATAGTTT			
4929	P	G	S	ATGACGTGGCAGACCGCTATAATTTTTAGACCTTATAGTT			
4929	T	A	S	GCTCAAACTATAAGGTCTAAAAATTATAGCATTTCCTCCATTCCCCGGATAGGATTGTCTGTTGAAGGA			
4929	T	G	S	GCTCAAACTATAAGGTCTAAAAATTATAGCGTTTCCTCCATTCCCCGGATAGGATTGTCTGTTGAAGGA			
				AAGTAAGATCATTGAATGGTGCTCTCAAGTGCTCAAACTATAAGGTCTAAAAATTATAGC[AG]TTTCCTCCATTCCCCGGATAGGATTGTCTGTTGAAGGAGGCAGA			
4929	IS	[AG]		TGGGCTGTACTCTCTT	ctg13740	5	
4983	I		A	GGTCTGGCCCCTTCATCCTGGGCT			
4983	P	G	A	ATGACGTGGCAGACGTGCAGGGCTGTTC			
4983	P	A	A	CGCGCCGAGGATGCAGGGCTGTTCC			
4983	T	G	A	CCATGGAACAGCCCTGCACGCCCAGGATGAAGGGGCCAGACCAC			
4983	T	A	A	CCATGGAACAGCCCTGCATGCCCAGGATGAAGGGGCCAGACCAC			
				GAAGGCTGGATTGGACCGTGGTCTCAGGCAGGGGCGTGGTCTGGCCCCTTCATCCTGGGC[GA]TGCAGGGCTGTTCCATGGGGATCGTCGCAGAGTAGAGTGC			
4983	IS	[GA]		ACAGTGCCGGTGTGAGCCCA	ctg15330	9	DBH
4984	I		A	CCCACTGAGTCCAAACACAAGGTTATCTTTAAAAAATAAAACAATACCAGGAAA			
4984	P	C	A	ATGACGTGGCAGACCCCTTCACCTCTACATTTTAT			
4984	P	T	A	CGCGCCGAGGTCCTTCACCTCTACATTTTATT			
4984	T	C	A	TTACAATAAAATGTAGAGGTGAAGGGTTCCTGGTATTGTTTTATTTTTTAAAGATAACCTTGTGTTTGGACTCAGTGGGGA			
4984	T	T	A	TTACAATAAAATGTAGAGGTGAAGGATTCCTGGTATTGTTTTATTTTTTAAAGATAACCTTGTGTTTGGACTCAGTGGGGA			
				TCTTGTCCCCACTGAGTCCAAACACAAGGTTATCTTTAAAAAATAAAACAATACCAGGAA[CT]CCTTCACCTCTACATTTTATTGTAATTTACCTCAGAAGTTAAACAA			
4984	IS	[CT]		CCCTAGTGCTTCTT	ctg16170	4	
4989	I		S	GTTTTCCTTCAGTTTCTTCTGTAGTTGAAGGGCCAGCT			
4989	P	T	S	CGCGCCGAGGACCTGCTCATCCTCAAT			
4989	P	C	S	ATGACGTGGCAGACGCCTGCTCATCCTCA			
4989	T	T	S	TAAGATTGAGGATGAGCAGGTGCTGGCCCTTCAACTACAGAAGAAACTGAAGGAAAACCA			
4989	T	C	S	TAAGATTGAGGATGAGCAGGCGCTGGCCCTTCAACTACAGAAGAAACTGAAGGAAAACCA			
				TCTCCTGCAGGAAGGAGTTTGACATTAATCAGCAGAACAGTAAGATTGAGGATGAGCAGG[TC]GCTGGCCCTTCAACTACAGAAGAAACTGAAGGAAAACCAGGT			
4989	IS	[TC]		GACTTTTTTTCCCAGTGC			
4990	I		S	CTCTTGACTTGCTTCTGGGCCTCGGCT			
4990	P	T	S	CGCGCCGAGGAGCCATGCGGTTGG			
4990	P	C	S	ATGACGTGGCAGACGGCCATGCGGTTG			
4990	T	T	S	CACGCCAACCGCATGGCTGCCGAGGCCCAGAAGCAAGTCAAGAGCC			
4990	T	C	S	CACGCCAACCGCATGGCCGCCGAGGCCCAGAAGCAAGTCAAGAGCC			
				GAAGATGGAAGGAGACCTCAATGAGATGGAGATCCAGCTCAGCCACGCCAACCGCATGGC[TC]GCCGAGGCCCAGAAGCAAGTCAAGAGCCTCCAGAGCTTGCT			
4990	IS	[TC]		GAAGGTACATGGGGGCGGG	ctg53	14	
4992	I		A	CGCTCCTGGTATTCTGGGTGCTTTGCAAGT			
4992	P	G	A	ATGACGTGGCAGACGTGGTACAGGACCCAG			
4992	P	A	A	CGCGCCGAGGATGGTACAGGACCCAG			
4992	T	G	A	TCTCCTGGGTCCTGTACCACCTTGCAAAGCACCCAGAATACCAGGAGCGCT			
4992	T	A	A	TCTCCTGGGTCCTGTACCATCTTGCAAAGCACCCAGAATACCAGGAGCGCT			
				CTTCAGAAGTTCTTGCACCTCCTGCCGGCAGCGCTCCTGGTATTCTGGGTGCTTTGCAAG[GA]TGGTACAGGACCCAGGAGAGACCACTGGCCGTGGTGTCATG			
4992	IS	[GA]		GCCTGGGGGGCAGCAAGGC	ctg18433	19	
5004	I		S	CTCGGGCAGAAGAACCCAGAGGTGTGGC			
5004	P	C	S	ATGACGTGGCAGACGGAAGACTCCTGAGAATCC			
5004	P	A	S	CGCGCCGAGGTGAAGACTCCTGAGAATCC			
5004	T	C	S	CTCTGGATTCTCAGGAGTCTTCCCCACACCTCTGGGTTCTTCTGCCCGAGCC			
5004	T	A	S	CTCTGGATTCTCAGGAGTCTTCACCACACCTCTGGGTTCTTCTGCCCGAGCC			
				TGGCCCTTTGCGGGTAAATGATTCAGAACGTGCAGCTCCTCTGGATTCTCAGGAGTCTTC[CA]CCACACCTCTGGGTTCTTCTGCCCGAGCCAGGCGTGCAGAGC			
5004	IS	[CA]		CAGAGGGCCGGCGCACTT	ctg18466	16	
5009	I		S	CCCAACAAATATGTTTTGAGTGCCAGGCGCCT			
5009	P	C	S	ATGACGTGGCAGACGGCTGCTAGGGACAG			
5009	P	T	S	CGCGCCGAGGAGCTGCTAGGGACAG			
5009	T	C	S	TTTGCTGTCCCTAGCAGCCGGCGCCTGGCACTCAAAACATATTTGTTGGGCA			
5009	T	T	S	TTTGCTGTCCCTAGCAGCTGGCGCCTGGCACTCAAAACATATTTGTTGGGCA			
				CTGTGGGCTCTGAGAAGGCGGGACCATGTGTCCCTTGTTCACTTTGCTGTCCCTAGCAGC[CT]GGCGCCTGGCACTCAAAACATATTTGTTGGGCAAGTGAACCT			
5009	IS	[CT]		GTGACTCTATTTTGCCAT	ctg22fin6	22	
5019	I		A	AAGACCTCCTCGAGTCTGACATGCAGGGAGC			
5019	P	G	A	ATGACGTGGCAGACGCAGTGAAGTGTAGACATG			
5019	P	T	A	CGCGCCGAGGTCAGTGAAGTGTAGACATG			
5019	T	G	A	CTACCATGTCTACACTTCACTGCCTCCCTGCATGTCAGACTCGAGGAGGTCTTCA			
5019	T	T	A	CTACCATGTCTACACTTCACTGACTCCCTGCATGTCAGACTCGAGGAGGTCTTCA			
				CACCAAGGAGGTGGGATTTAGATGGTCTTGAAGACCTCCTCGAGTCTGACATGCAGGGAG[GT]CAGTGAAGTGTAGACATGGTAGACATGGGCTCTGGGTCATAC			
5019	IS	[GT]		CTGCCTTCACTCTATGAC	ctg22fin4	22	
5025	I		A	GCTGGGGGCCTGCAGTGTGTGTA			
5025	P	C	A	ATGACGTGGCAGACCTTGCTTCTCTGAGTTTGC			
5025	P	T	A	CGCGCCGAGGTTTGCTTCTCTGAGTTTGC			
5025	T	C	A	CTCAGCAAACTCAGAGAAGCAAGACACACACTGCAGGCCCCCAGCAG			
5025	T	T	A	CTCAGCAAACTCAGAGAAGCAAAACACACACTGCAGGCCCCCAGCAG			
				TTCCCTGGCTCGGAGCTCTGTGGGCAGGGCTCTGGCCTGCTGGGGGCCTGCAGTGTGTGT[CT]TTGCTTCTCTGAGTTTGCTGAGCTTCTCTGAGTTTCTTTTTG			
5025	IS	[CT]		CAATAAGACCCCTCTCCT	ctg22fin4	22	
5026	I		S	GGTGGGGAGAAAGGAGGAGAGGGGTCTTATC			
5026	P	C	S	ATGACGTGGCAGACGGCAAAAAGAAACTCAGAGA			
5026	P	A	S	CGCGCCGAGGTGCAAAAAGAAACTCAGAGA			
5026	T	C	S	AGCTTCTCTGAGTTTCTTTTTGCCATAAGACCCCTCTCCTCCTTTCTCCCCACCGC			
5026	T	A	S	AGCTTCTCTGAGTTTCTTTTTGCAATAAGACCCCTCTCCTCCTTTCTCCCCACCGC			
				GGCCTGCAGTGTGTGTCTTGCTTCTCTGAGTTTGCTGAGCTTCTCTGAGTTTCTTTTTGC[CA]ATAAGACCCCTCTCCTCCTTTCTCCCCACCGCTGTTTCCTCCAA			
5026	IS	[CA]		GATGGGAAGAAGCAGC	ctg22fin4	22	
5031	I		S	CTTCAGGATGTAAAGCTACGAGGATTTCAAACGTTTGT			
5031	P	C	S	ATGACGTGGCAGACGTCTGACAAGTAATTCCCAG			
5031	P	G	S	CGCGCCGAGGCTCTGACAAGTAATTCCCAG			
5031	T	C	S	TAGGCTGGGAATTACTTGTCAGACCAAACGTTTGAAATCCTCGTAGCTTTACATCCTGAAGTT			
5031	T	G	S	TAGGCTGGGAATTACTTGTCAGAGCAAACGTTTGAAATCCTCGTAGCTTTACATCCTGAAGTT			
				TGAAGGTGGCAGTAGATGCTCGGCTCTGGAAAGATCTTAGGCTGGGAATTACTTGTCAGA[CG]CAAACGTTTGAAATCCTCGTAGCTTTACATCCTGAAGTTTAAT			
5031	IS	[CG]		ACGGTTGGCTTACAATT	ctg15508	17	
5032	I		A	GCTTTCCTCCTCTGGTCCCCACCTTCATGAT			
5032	P	A	A	CGCGCCGAGGATATGCACAGTGACTGATG			
5032	P	G	A	ATGACGTGGCAGACGTATGCACAGTGACTGATG			
5032	T	A	A	AAGTCATCAGTCACTGTGCATATTCATGAAGGTGGGGACCAGAGGAGGAAAGCGA			
5032	T	G	A	AAGTCATCAGTCACTGTGCATACTCATGAAGGTGGGGACCAGAGGAGGAAAGCGA			

FIGURE 129B

				TTTCTGCTGTCTCCCTCTGTCCCCTCACTCGCTTTCCTCCTCTGGTCCCCACCTTCATGA[AG]TATGCACAGTGACTGATGACTTCTCACCAGCCCTTCCTCTGATT			
5032	IS	[AG]		AGCTCTGTGTCCCCAA			
5035	I		S	ACAGCTGCTTTGCTTTTTACCCAGCTTTAACACCAA			
5035	P	G	S	ATGACGTGGCAGACCGAAGACACATCTGCC			
5035	P	A	S	CGCGCCGAGGTGAAGACACATCTGCCA			
5035	T	G	S	GGACTGGCAGATGTGTCTTCGTGGTGTTAAAGCTGGGTAAAAAGCAAAGCAGCTGTGC			
5035	T	A	S	GGACTGGCAGATGTGTCTTCATGGTGTTAAAGCTGGGTAAAAAGCAAAGCAGCTGTGC			
				CTGTGTCCCCAGGAAAGGTGAGTTGGTGCTAACCCTGTGAGGACTGGCAGATGTGTCTTC[GA]TGGTGTTAAAGCTGGGTAAAAAGCAAAGCAGCTGTGCAGACT			
5035	IS	[GA]		GCCCCCTGCCAGGCAAGC	ctg15907	6	
5041	I		S	CCGGAAGAAACAAGCCATCCCTCAGTGTCACT			
5041	P	C	S	ATGACGTGGCAGACGTGACAGCAGGCAG			
5041	P	G	S	CGCGCCGAGGCTGACAGCAGGCAG			
5041	T	C	S	CGAGCTGCCTGCTGTCACGTGACACTGAGGGATGGCTTGTTTCTTCCGGGT			
5041	T	G	S	CGAGCTGCCTGCTGTCAGGTGACACTGAGGGATGGCTTGTTTCTTCCGGGT			
				TTTTTGATGGAAGACCAAGGGTTGCCAGGCCCACTGTAACTGCCGAGCTGCCTGCTGTCA[CG]GTGACACTGAGGGATGGCTTGTTTCTTCCGGGTGGGAGGAT			
5041	IS	[CG]		GGTGGTCAGAGCCAGGAGT	ctg22fin4	22	MTMR3
5051	I		S	AGGTCTCAGAGAAGGGCAATACTGTTTGGGGGC			
5051	P	A	S	CGCGCCGAGGTGTGGAGGAAGGCATATA			
5051	P	C	S	ATGACGTGGCAGACGGTGGAGGAAGGCAT			
5051	T	A	S	GTTTTATATGCCTTCCTCCACACCCCCAAACAGTATTGCCCTTCTCTGAGACCTAG			
5051	T	C	S	GTTTTATATGCCTTCCTCCACCCCCCCAAACAGTATTGCCCTTCTCTGAGACCTAG			
				GGAGACTGAAGTAGACAAGCCCATGGCCACCCTAGGTATGTTTTATATGCCTTCCTCCAC[AC]CCCCCAAACAGTATTGCCCTTCTCTGAGACCTAGGATGGCAAT			
5051	IS	[AC]		GGCCACTACTTCTGATC	ctg15064	7	
5055	I		S	CCTAATCTCCCTCACAACCATGTCTTTGTAATGAGTAATCAGGAACT			
5055	P	C	S	ATGACGTGGCAGACGTCGCACTCAGCCA			
5055	P	T	S	CGCGCCGAGGATCGCACTCAGCCAA			
5055	T	C	S	TCAGTTGGCTGAGTGCGACGTTCCTGATTACTCATTACAAAGACATGGTTGTGAGGGAGATTAGGGA			
5055	T	T	S	TCAGTTGGCTGAGTGCGATGTTCCTGATTACTCATTACAAAGACATGGTTGTGAGGGAGATTAGGGA			
				GGGATTTCTCACCTGTACCAAAGTAGTTTCTTGTACTCTAAATCAGTTGGCTGAGTGCGA[CT]GTTCCTGATTACTCATTACAAAGACATGGTTGTGAGGGAGATTA			
5055	IS	[CT]		GGGAGCAGTGCTGTGT	ctg25099	7	
5056	I		A	GCCCCGGCTGCATTGTAACATGAATTT			
5056	P	G	A	ATGACGTGGCAGACGTAAGACACTCTGTCACTG			
5056	P	A	A	CGCGCCGAGGATAAGACACTCTGTCACTGA			
5056	T	G	A	AGGCTCAGTGACAGAGTGTCTTACAATTCATGTTACAATGCAGCCGGGGCTT			
5056	T	A	A	AGGCTCAGTGACAGAGTGTCTTATAATTCATGTTACAATGCAGCCGGGGCTT			
				GATCTGTTACTGCGGCATTACAAAAGCCCCGGCTGCATTGTAACATGAATT[GA]TAAGACACTCTGTCACTGAGCCTCACCCTCTGCCTGGGACACGGGGTGAAG			
5056	IS	[GA]		AGCTGACCT			
5065	I		S	GGGCATCTCTTTATCCCCAGCACCTGGCC			
5065	P	A	S	CGCGCCGAGGTTAAGTGCTGCTCTGGA			
5065	P	C	S	ATGACGTGGCAGACGTAAGTGCTGCTCTGGA			
5065	T	A	S	TAGTTCCAGAGCAGCACTTAAGCCAGGTGCTGGGGATAAAGAGATGCCCTG			
5065	T	C	S	TAGTTCCAGAGCAGCACTTACGCCAGGTGCTGGGGATAAAGAGATGCCCTG			
				ATACTCAACAATACATTCATGCATTAGTTCATTCAACAGATAGTTCCAGAGCAGCACTTA[AC]GCCAGGTGCTGGGGATAAAGAGATGCCCTGGTTTGTGCCCATAT			
5065	IS	[AC]		GCACACCTGACCTCAC	ctg16170	4	
5068	I		A	CTGTGAGCTCACAGCCCCCCTCGT			
5068	P	A	A	CGCGCCGAGGACCCCAGAAACTGGAG			
5068	P	C	A	ATGACGTGGCAGACCCCCCAGAAACTGGA			
5068	T	A	A	GCTCCTCCAGTTTCTGGGGTCGAGGGGGGCTGTGAGCTCACAGCG			
5068	T	C	A	GCTCCTCCAGTTTCTGGGGGCGAGGGGGGCTGTGAGCTCACAGCG			
				GTGCCTGGCCAGGGGGATGGGGGGACTCCTCTTCCCGCTGTGAGCTCACAGCCCCCCTCG[AC]CCCCAGAAACTGGAGGAGCAGGACCGCCGGGCACTGAGC			
5068	IS	[AC]		ATCAAGGAGCAGCTGCAGCAG			
5072	I		A	GCGTGTCAGCCCTCCAGTTCTCCTTCAT			
5072	P	A	A	CGCGCCGAGGATTGACGCCAGCCT			
5072	P	G	A	ATGACGTGGCAGACGTTGACGCCAGCCT			
5072	T	A	A	GGAGAGGCTGGCGTCAATTGAAGGAGAACTGGAGGGCTGACACGCGT			
5072	T	G	A	GGAGAGGCTGGCGTCAACTGAAGGAGAACTGGAGGGCTGACACGCGT			
				CTCTGCTCCTTGGCCTGCCTGCCCGCCAGCCACGCGTGTCAGCCCTCCAGTTCTCCTTCA[AG]TTGACGCCAGCCTCTCCACAGGCCCAGTGCTGTGCCATTCT	ctg15581	4	MAD4
5072	IS	[AG]		GGAAGCTCCAGCTGCTGCT			
5073	I		A	GCCAGCCTCTCCACAGGCCCAT			
5073	P	G	A	ATGACGTGGCAGACGTGCTGTGCCATTCTG			
5073	P	C	A	CGCGCCGAGGCTGCTGTGCCATTCTG			
5073	T	G	A	CTTCCAGAATGGCACAGCACTGGGCCTGTGGAGAGGCTGGCGT			
5073	T	C	A	CTTCCAGAATGGCACAGCAGTGGGCCTGTGGAGAGGCTGGCGT			
				AGCCACGCGTGTCAGCCCTCCAGTTCTCCTTCAATTGACGCCAGCCTCTCCACAGGCCCA[GC]TGCTGTGCCATTCTGGAAGCTCCAGCTGCTGCTGGGCTGCC			
5073	IS	[GC]		TGGCACTGCCCGCTTGCCG	ctg15581	4	MAD4
5077	I		A	CGTGTTAGCGTAATGTACGTGAACACTTCAAGAAGCCTT			
5077	P	A	A	CGCGCCGAGGAATAAAATCTCTGCAAGACATTAG			
5077	P	G	A	ATGACGTGGCAGACGATAAAATCTCTGCAAGACATTAG			
5077	T	A	A	TTTTCTAATGTCTTGCAGAGATTTTATTAGGCTTCTTGAAGTGTTCACGTACATTACGCTAACACGAT			
5077	T	G	A	TTTTCTAATGTCTTGCAGAGATTTTATCAGGCTTCTTGAAGTGTTCACGTACATTACGCTAACACGAT			
				AGAGCACAGTTATTATTAATATCGTGTTAGCGTAATGTACGTGAACACTTCAAGAAGCCT[AG]ATAAAATCTCTGCAAGACATTAGAAAAATGAAACCAGGTACTACT			
5077	IS	[AG]		CATGGCCTTTATAAA	ctg16170	4	
5100	I		S	ACCACCCTCAAATTCAGACCCAGGAAACTCTTGACA			
5100	P	G	S	ATGACGTGGCAGACCACAGGCAGGCCC			
5100	P	A	S	CGCGCCGAGGTACAGGCAGGCCC			
5100	T	G	S	ACCTGGGCCTGCCTGTGGTCAAGAGTTTCCTGGGTCTGAATTTGAGGGTGGTCC			
5100	T	A	S	ACCTGGGCCTGCCTGTAGTCAAGAGTTTCCTGGGTCTGAATTTGAGGGTGGTCC			
				GTCTACCTGGACAGTGAGGTAAGAGTCTTGACTTCCTAGGTGGAACCTGGGCCTGCCTGT[GA]GTCAAGAGTTTCCTGGGTCTGAATTTGAGGGTGGTCCATGCT			
5100	IS	[GA]		GAGGGCTCTGGGGTTGTG	ctg14391	11	
5103	I		S	TGGTTAAGGATGACGGTTTTATGTTAACTAAACATTGGGATT			
5103	P	T	S	CGCGCCGAGGAAAGTGACAGTTGTTTATGTC			
5103	P	G	S	ATGACGTGGCAGACCAAGTGACAGTTGTTTATGTC			
5103	T	T	S	ACCGGACATAAACAACTGTCACTTTATCCCAATGTTTAGTTAACATAAAACCGTCATCCTTAACCAGT			
5103	T	G	S	ACCGGACATAAACAACTGTCACTTGATCCCAATGTTTAGTTAACATAAAACCGTCATCCTTAACCAGT			
				GCTTATTTTAATCATGGGAAAACTGATACTCTAGGCACCGGACATAAACAACTGTCACTT[TG]ATCCCAATGTTTAGTTAACATAAAACCGTCATCCTTAACCAGTCT			
5103	IS	[TG]		GAAAAAAACATGGCC			
5106	I		A	GCCCATTCTACCCACCTTATTGCCATGAGAATGTGC			
5106	P	T	A	CGCGCCGAGGTCTGTTCCCTCAAACTCA			
5106	P	A	A	ATGACGTGGCAGACACTGTTCCCTCAAACTCA			
5106	T	T	A	AAACTGAGTTTGAGGGAACAGACACATTCTCATGGCAATAAGGTGGGTAGAATGGGCCG			
5106	T	A	A	AAACTGAGTTTGAGGGAACAGTCACATTCTCATGGCAATAAGGTGGGTAGAATGGGCCG			
				CTGACCACAGTGCAGAGGCTGAGCGGCCCATTCTACCCACCTTATTGCCATGAGAATGTG[TA]CTGTTCCCTCAAACTCAGTTTTCACTTTCTACACAAGTGTAATC			
5106	IS	[TA]		TTTCTGGGTCCTCTCT	ctg16114	X	
5111	I		A	TGAGCTGTTTCTCCCCTTATGAAAGAACTCCAA			
5111	P	T	A	CGCGCCGAGGTCCTGTTGCCACCTT			
5111	P	C	A	ATGACGTGGCAGACCCCTGTTGCCACCT			
5111	T	T	A	AGTCAAGGTGGCAACAGGATGGAGTTCTTTCATAAGGGGAGAAACAGCTCAGT			
5111	T	C	A	AGTCAAGGTGGCAACAGGGTGGAGTTCTTTCATAAGGGGAGAAACAGCTCAGT			

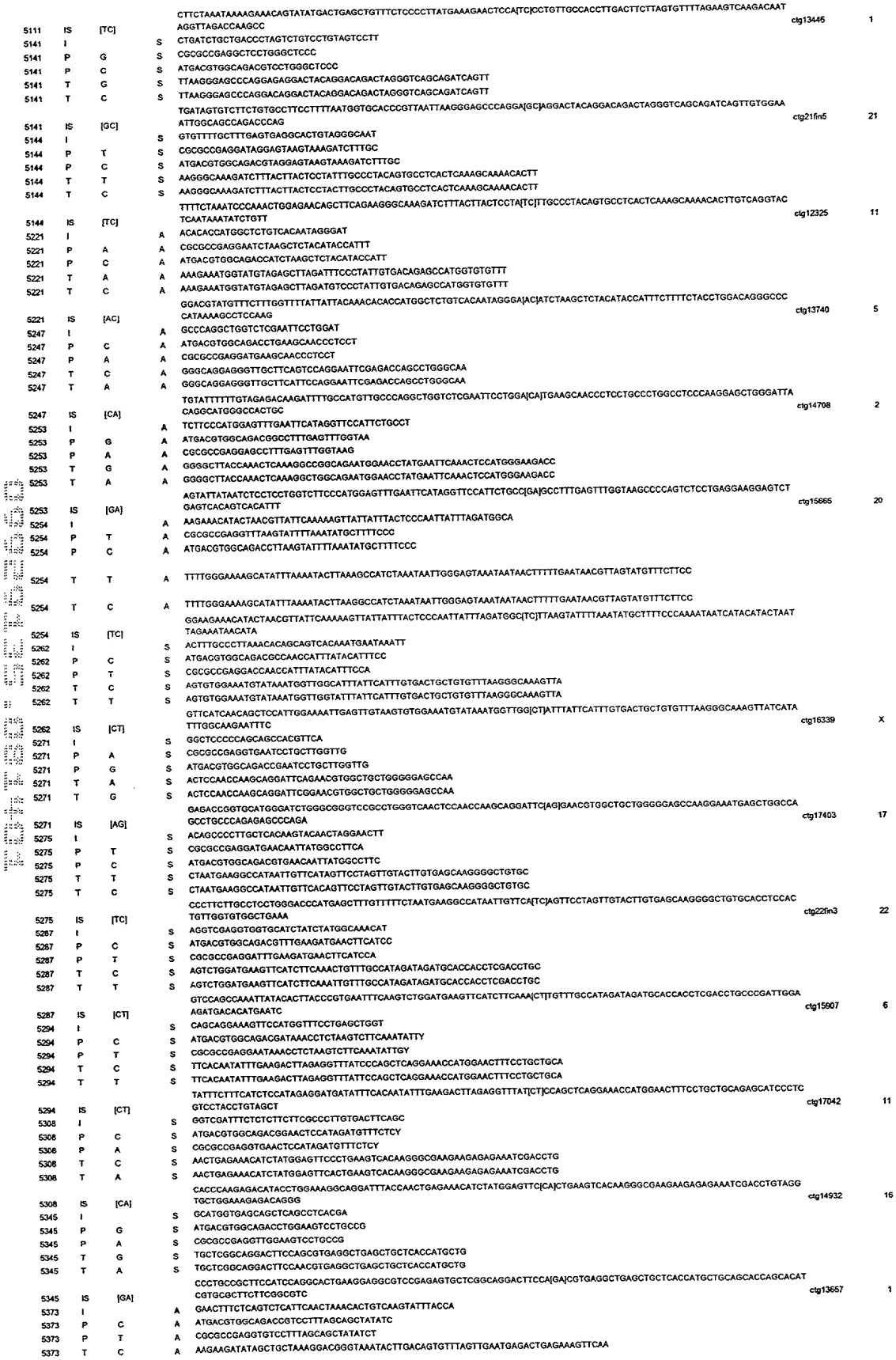
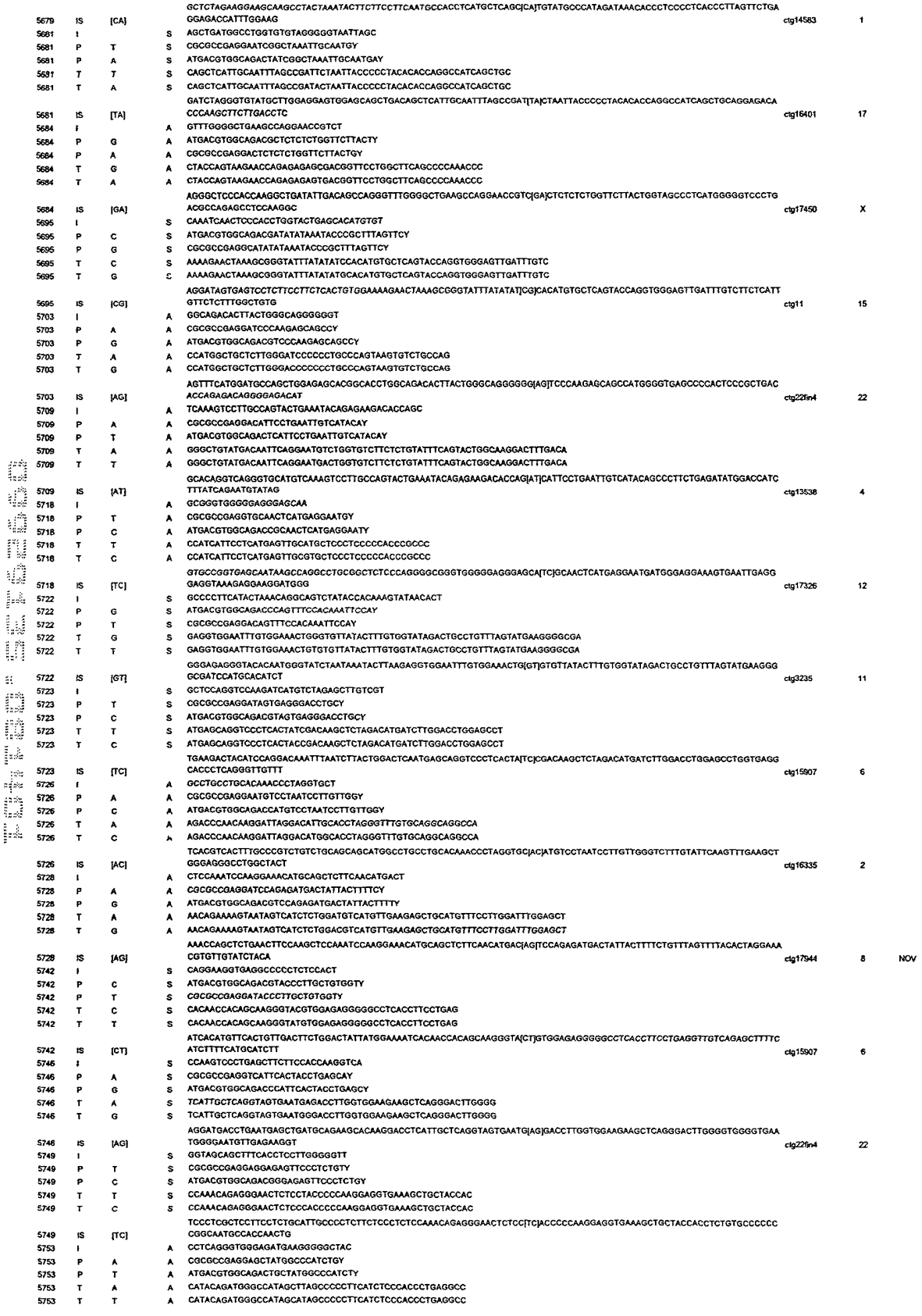

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ctg13446
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AGGTTAGACCAAGCC
5111 IS [TC]
5141 I S CTGATCTGCTGACCCTAGTCTGTCCTGTAGTCCTT
5141 P G S CGCGCCGAGGCTCCTGGGCTCCC
5141 P C S ATGACGTGGCAGACGTCCTGGGCTCCC
5141 T G S TTAAGGAGCCCAGGAGAGGACTACAGGACAGACTAGGGTCAGCAGATCAGTT
5141 T C S TTAAGGAGCCCAGGACAGGACTACAGGACAGACTAGGGTCAGCAGATCAGTT
TGATAGTGTCTTCTGTGCCTTCCTTTTAATGGTGCACCCGTTAATTAAGGGAGCCCAGGA[GC]AGGACTACAGGACAGACTAGGGTCAGCAGATCAGTTGTGGAA
ctg21fin5
21
ATTGGCAGCCAGACCCAG
5141 IS [GC]
5144 I S GTGTTTTGCTTTGAGTGAGGCACTGTAGGGCAAT
5144 P T S CGCGCCGAGGATAGGAGTAAGTAAAGATCTTTGC
5144 P C S ATGACGTGGCAGACGTAGGAGTAAGTAAAGATCTTTGC
5144 T T S AAGGGCAAAGATCTTTACTTACTCCTATTTGCCCTACAGTGCCTCACTCAAAGCAAAACACTT
5144 T C S AAGGGCAAAGATCTTTACTTACTCCTACTTGCCCTACAGTGCCTCACTCAAAGCAAAACACTT
TTTTCTAAATCCCAAACTGGAGAACAGCTTCAGAAGGGCAAAGATCTTTACTTACTCCTA[TC]TTGCCCTACAGTGCCTCACTCAAAGCAAAACACTTGTCAGGTAC
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TCAATAAATATCTGTT
5144 IS [TC]
5221 I A ACACACCATGGCTCTGTCACAATAGGGAT
5221 P A A CGCGCCGAGGAATCTAAGCTCTACATACCATTT
5221 P C A ATGACGTGGCAGACCATCTAAGCTCTACATACCATT
5221 T A A AAAGAAATGGTATGTAGAGCTTAGATTTCCCTATTGTGACAGAGCCATGGTGTGTTT
5221 T C A AAAGAAATGGTATGTAGAGCTTAGATGTCCCTATTGTGACAGAGCCATGGTGTGTTT
GGACGTATGTTTCTTTGGTTTTATTATTACAAACACACCATGGCTCTGTCACAATAGGGA[AC]ATCTAAGCTCTACATACCATTTCTTTTCTACCTGGACAGGGCCC
ctg13740
5
CATAAAAGCCTCCAAG
5221 IS [AC]
5247 I A GCCCAGGCTGGTCTCGAATTCCTGGAT
5247 P C A ATGACGTGGCAGACCTGAAGCAACCCTCCT
5247 P A A CGCGCCGAGGATGAAGCAACCCTCCT
5247 T C A GGGCAGGAGGGTTGCTTCAGTCCAGGAATTCGAGACCAGCCTGGGCAA
5247 T A A GGGCAGGAGGGTTGCTTCATTCCAGGAATTCGAGACCAGCCTGGGCAA
TGTATTTTTTGTAGAGACAAGATTTGCCATGTTGCCCAGGCTGGTCTCGAATTCCTGGA[CA]TGAAGCAACCCTCCTGCCCTGGCCTCCCAAGGAGCTGGGATTA
ctg14708
2
CAGGCATGGGCCACTGC
5247 IS [CA]
5253 I A TCTTCCCATGGAGTTTGAATTCATAGGTTCCATTCTGCCT
5253 P G A ATGACGTGGCAGACGGCCTTTGAGTTTGGTAA
5253 P A A CGCGCCGAGGAGCCTTTGAGTTTGGTAAG
5253 T G A GGGGCTTACCAAACTCAAAGGCCGGCAGAATGGAACCTATGAATTCAAACTCCATGGGAAGACC
5253 T A A GGGGCTTACCAAACTCAAAGGCTGGCAGAATGGAACCTATGAATTCAAACTCCATGGGAAGACC
AGTATTATAATCTCCTCCTGGTCTTCCCATGGAGTTTGAATTCATAGGTTCCATTCTGCC[GA]GCCTTTGAGTTTGGTAAGCCCCAGTCTCCTGAGGAAGGAGTCT
ctg15665
20
GAGTCACAGTCACATTT
5253 IS [GA]
5254 I A AAGAAACATACTAACGTTATTCAAAAAGTTATTATTTACTCCCAATTATTTAGATGGCA
5254 P T A CGCGCCGAGGTTTAAGTATTTTAAATATGCTTTTCCC
5254 P C A ATGACGTGGCAGACCTTAAGTATTTTAAATATGCTTTTCCC
5254 T T A TTTTGGGAAAAGCATATTTAAAATACTTAAAGCCATCTAAATAATTGGGAGTAAATAATAACTTTTTGAATAACGTTAGTATGTTTCTTCC
5254 T C A TTTTGGGAAAAGCATATTTAAAATACTTAAGGCCATCTAAATAATTGGGAGTAAATAATAACTTTTTGAATAACGTTAGTATGTTTCTTCC
GGAAGAAACATACTAACGTTATTCAAAAAGTTATTATTTACTCCCAATTATTTAGATGGC[TC]TTAAGTATTTTAAATATGCTTTTCCCAAAATAATCATACATACTAAT
5254 IS [TC]
TAGAAATAACATA
5262 I S ACTTTGCCCTTAAACACAGCAGTCACAAATGAATAAATT
5262 P C S ATGACGTGGCAGACGCCAACCATTTATACATTTCC
5262 P T S CGCGCCGAGGACCAACCATTTATACATTTCCA
5262 T C S AGTGTGGAAATGTATAAATGGTTGGCATTTATTCATTTGTGACTGCTGTGTTTAAGGGCAAAGTTA
5262 T T S AGTGTGGAAATGTATAAATGGTTGGTATTTATTCATTTGTGACTGCTGTGTTTAAGGGCAAAGTTA
GTTCATCAACAGCTCCATTGGAAAATTGAGTTGTAAGTGTGGAAATGTATAAATGGTTGG[CT]ATTTATTCATTTGTGACTGCTGTGTTTAAGGGCAAAGTTATCATA
ctg16339
X
TTTGGCAAGAATTTC
5262 IS [CT]
5271 I S GGCTCCCCCAGCAGCCACGTTCA
5271 P A S CGCGCCGAGGTGAATCCTGCTTGGTTG
5271 P G S ATGACGTGGCAGACCGAATCCTGCTTGGTTG
5271 T A S ACTCCAACCAAGCAGGATTCAGAACGTGGCTGCTGGGGGAGCCAA
5271 T G S ACTCCAACCAAGCAGGATTCGGAACGTGGCTGCTGGGGGAGCCAA
GAGACCGGTGCATGGGATCTGGGCGGGTCCGCCTGGGTCAACTCCAACCAAGCAGGATTC[AG]GAACGTGGCTGCTGGGGGAGCCAAGGAAATGAGCTGGCCA
ctg17403
17
GCCTGCCCAGAGAGCCCAGA
5271 IS [AG]
5275 I S ACAGCCCCTTGCTCACAAGTACAACTAGGAACTT
5275 P T S CGCGCCGAGGATGAACAATTATGGCCTTCA
5275 P C S ATGACGTGGCAGACGTGAACAATTATGGCCTTC
5275 T T S CTAATGAAGGCCATAATTGTTCATAGTTCCTAGTTGTACTTGTGAGCAAGGGGCTGTGC
5275 T C S CTAATGAAGGCCATAATTGTTCACAGTTCCTAGTTGTACTTGTGAGCAAGGGGCTGTGC
CCCTTCTTGCCTCCTGGGACCCATGAGCTTTGTTTTTCTAATGAAGGCCATAATTGTTCA[TC]AGTTCCTAGTTGTACTTGTGAGCAAGGGGCTGTGCACCTCCAC
ctg22fin3
22
TGTTGGTGTGGCTGAAA
5275 IS [TC]
5287 I S AGGTCGAGGTGGTGCATCTATCTATGGCAAACAT
5287 P C S ATGACGTGGCAGACGTTTGAAGATGAACTTCATCC
5287 P T S CGCGCCGAGGATTTGAAGATGAACTTCATCCA
5287 T C S AGTCTGGATGAAGTTCATCTTCAAACTGTTTGCCATAGATAGATGCACCACCTCGACCTGC
5287 T T S AGTCTGGATGAAGTTCATCTTCAAATTGTTTGCCATAGATAGATGCACCACCTCGACCTGC
GTCCAGCCAAATTATACACTTACCCGTGAATTTCAAGTCTGGATGAAGTTCATCTTCAAA[CT]TGTTTGCCATAGATAGATGCACCACCTCGACCTGCCCGATTGGA
ctg15907
6
AGATGACACATGAATC
5287 IS [CT]
5294 I S CAGCAGGAAAGTTCCATGGTTTCCTGAGCTGGT
5294 P C S ATGACGTGGCAGACGATAAACCTCTAAGTCTTCAAATATTY
5294 P T S CGCGCCGAGGAATAAACCTCTAAGTCTTCAAATATTGY
5294 T C S TTCACAATATTTGAAGACTTAGAGGTTTATCCCAGCTCAGGAAACCATGGAACTTTCCTGCTGCA
5294 T T S TTCACAATATTTGAAGACTTAGAGGTTTATTCCAGCTCAGGAAACCATGGAACTTTCCTGCTGCA
TATTTCTTTCATCTCCATAGAGGATGATATTTCACAATATTTGAAGACTTAGAGGTTTAT[CT]CCAGCTCAGGAAACCATGGAACTTTCCTGCTGCAGAGCATCCCTC
ctg17042
11
GTCCTACCTGTAGCT
5294 IS [CT]
5308 I S GGTCGATTTCTCTCTTCTTCGCCCTTGTGACTTCAGC
5308 P C S ATGACGTGGCAGACGGAACTCCATAGATGTTTCTCY
5308 P A S CGCGCCGAGGTGAACTCCATAGATGTTTCTCY
5308 T C S AACTGAGAAACATCTATGGAGTTCCCTGAAGTCACAAGGGCGAAGAAGAGAGAAATCGACCTG
5308 T A S AACTGAGAAACATCTATGGAGTTCACTGAAGTCACAAGGGCGAAGAAGAGAGAAATCGACCTG
CACCCAAGAGACATACCTGGAAAGGCAGGATTTACCAACTGAGAAACATCTATGGAGTTC[CA]CTGAAGTCACAAGGGCGAAGAAGAGAGAAATCGACCTGTAGG
ctg14932
16
TGCTGGAAAGAGACAGGG
5308 IS [CA]
5345 I S GCATGGTGAGCAGCTCAGCCTCACGA
5345 P G S ATGACGTGGCAGACCTGGAAGTCCTGCCG
5345 P A S CGCGCCGAGGTTGGAAGTCCTGCCG
5345 T G S TGCTCGGCAGGACTTCCAGCGTGAGGCTGAGCTGCTCACCATGCTG
5345 T A S TGCTCGGCAGGACTTCCAACGTGAGGCTGAGCTGCTCACCATGCTG
CCCTGCCGCTTCCATCCAGGCACTGAAGGAGGCGTCCGAGAGTGCTCGGCAGGACTTCCA[GA]CGTGAGGCTGAGCTGCTCACCATGCTGCAGCACCAGCACAT
ctg13657
1
CGTGCGCTTCTTCGGCGTC
5345 IS [GA]
5373 I A GAACTTTCTCAGTCTCATTCAACTAAACACTGTCAAGTATTTACCA
5373 P C A ATGACGTGGCAGACCGTCCTTTAGCAGCTATATC
5373 P T A CGCGCCGAGGTGTCCTTTAGCAGCTATATCT
5373 T C A AAGAAGATATAGCTGCTAAAGGACGGGTAAATACTTGACAGTGTTTAGTTGAATGAGACTGAGAAAGTTCAA

FIGURE 129B

5373	T	T	A	AAGAAGATATAGCTGCTAAAGGACAGGTAAATACTTGACAGTGTTTAGTTGAATGAGACTGAGAAAGTTCAA			
5373	IS	[CT]		GACTTTCCATTATTTGAACTTTCTCAGTCTCATTCAACTAAACACTGTCAAGTATTTACC[CT]GTCCTTTAGCAGCTATATCTTCTTCTTTCTTTAGTTTTTATACCTGA TTATACTTCTGAT	ctg16105	5	
5491	I		A	TTCTGGTTTGGTTGAATCTTCCTTTTTCTTTCTCCCTTTTGTCCT			
5491	P	C	A	CGCGCCGAGGCCTCTCCTAATAGAACTAAATGGY			
5491	P	G	A	ATGACGTGGCAGACGCTCTCCTAATAGAACTAAATGGY			
5491	T	C	A	TAAACCATTTAGTTCTATTAGGAGAGGGGACAAAAGGGAGAAAGAAAAAGGAAGATTCAACCAAACCAGAACA			
5491	T	G	A	TAAACCATTTAGTTCTATTAGGAGAGCGGACAAAAGGGAGAAAGAAAAAGGAAGATTCAACCAAACCAGAACA			
5491	IS	[CG]		ACCCGTTTTATTGGTGTTCTGGTTTGGTTGAATCTTCCTTTTTCTTTCTCCCTTTTGTCC[CG]CTCTCCTAATAGAACTAAATGGTTTATTTTGACCAAGGTATACAC AGTTTGGTTTACTCG	ctg15422	X	
5495	I		A	GCTGCAGCGGCCATTTGGCCTCATTCT			
5495	P	G	A	ATGACGTGGCAGACGCAGGCCCTGACAY			
5495	P	A	A	CGCGCCGAGGACAGGCCCTGACACY			
5495	T	G	A	GTGTGTGTCAGGGCCTGCGAATGAGGCCAAATGGCCGCTGCAGCTT			
5495	T	A	A	GTGTGTGTCAGGGCCTGTGAATGAGGCCAAATGGCCGCTGCAGCTT			
5495	IS	[GA]		GGAAGGGAAACTGCCCTGTCTCCCCACCTCCCAAGCTGCAGCGGCCATTTGGCCTCATTC[GA]CAGGCCCTGACACACACCTGGTGTGCATGTTTGCACACATGT GTATACAACTCTGCTCTG	ctg22fin4	22	
5498	I		S	GGGAGGGAGGTGGGAGATAACAGGTACATTGTAAACAAAT			
5498	P	C	S	ATGACGTGGCAGACGTCTCAGTGCACATGCY			
5498	P	G	S	CGCGCCGAGGCTCTCAGTGCACATGCY			
5498	T	C	S	GGAAGCATGTGCACTGAGACTTTGTTTACAATGTACCTGTTATCTCCCACCTCCCTCCCCC			
5498	T	G	S	GGAAGCATGTGCACTGAGAGTTTGTTTACAATGTACCTGTTATCTCCCACCTCCCTCCCCC			
5498	IS	[CG]		GGTTATTGAGGAAATGTTTCCTCGGAGGAGCTCTATTTGAGGGAAGCATGTGCACTGAGA[CG]TTTGTTTACAATGTACCTGTTATCTCCCACCTCCCTCCCCCAG TCACCCCTATACACTTA	ctg3461	17	
5511	I		A	TGAAAGGCAGTTTTTGAAATCTGAACTCTCATTGCAT			
5511	P	G	A	ATGACGTGGCAGACGTTTTACATGAAGAACACTGTAGY			
5511	P	A	A	CGCGCCGAGGATTTTACATGAAGAACACTGTAGY			
5511	T	G	A	CTGCCTACAGTGTTCTTCATGTAAAACTGCAATGAGAGTTCAGATTTCAAAAACTGCCTTTCACA			
5511	T	A	A	CTGCCTACAGTGTTCTTCATGTAAAATTGCAATGAGAGTTCAGATTTCAAAAACTGCCTTTCACA			
5511	IS	[GA]		TTCTAAATAATGGGTATAAATTTGTGAAAGGCAGTTTTTGAAATCTGAACTCTCATTGCA[GA]TTTTACATGAAGAACACTGTAGGCAGATACCCAAATAAATGTGTG TGGTATTTCAGGGGA	ctg19247	7	
5544	I		S	CATCAGCAATATGTGAAGAGATCCACTTGTATGGATTTTGGCCC			
5544	P	C	S	ATGACGTGGCAGACGTTTGGATTTGACCCCAAY			
5544	P	A	S	CGCGCCGAGGTTTTGGATTTGACCCCAAY			
5544	T	C	S	TGTGTTGGGGTCAAATCCAAACGGCCAAAATCCATACAAGTGGATCTCTTCACATATTGCTGATGCA			
5544	T	A	S	TGTGTTGGGGTCAAATCCAAAAGGCCAAAATCCATACAAGTGGATCTCTTCACATATTGCTGATGCA			
5544	IS	[CA]		TCCTTTTTTGTCATAGTAATGGTATGGAAGATCTTCCCTTGTGTTGGGGTCAAATCCAAA[CA]GGCCAAAATCCATACAAGTGGATCTCTTCACATATTGCTGATGC AAGGGTGTACATAAGA	MULTIPLE	18	MULTIPLE SHORT GENE NAMES
5552	I		S	CCCAAATACTCATCACTCCTCTTATTAATTCTTTGCCTCCTGAAAGAA			
5552	P	G	S	ATGACGTGGCAGACCCCATATCCAATTCTTCAATGY			
5552	P	A	S	CGCGCCGAGGTCCATATCCAATTCTTCAATGAY			
5552	T	G	S	ATATTCATTGAAGAATTGGATATGGGTCTTTCAGGAGGCAAGAATTAATAAGAGGAGTGATGAGTATTTGGGGA			
5552	T	A	S	ATATTCATTGAAGAATTGGATATGGATCTTTCAGGAGGCAAGAATTAATAAGAGGAGTGATGAGTATTTGGGGA			
5552	IS	[GA]		AGCGCAGAACCTGGTATGTAGTAGCAGTTCCTTAAATATTCATTGAAGAATTGGATATGG[GA]TCTTTCAGGAGGCAAGAATTAATAAGAGGAGTGATGAGTATTTG GGGAGTCCAAAGCAAA	ctg3454	17	
5578	I		S	CCCGCTCCCAAAGCCTCTGGGACTA			
5578	P	A	S	CGCGCCGAGGTGGCGTGGGGTGY			
5578	P	G	S	ATGACGTGGCAGACCGGCGTGGGGTGY			
5578	T	A	S	CTCCCACCCCACGCCAAGTCCCAGAGGCTTTGGGAGCGGGTG			
5578	T	G	S	CTCCCACCCCACGCCGAGTCCCAGAGGCTTTGGGAGCGGGTG			
5578	IS	[AG]		CAACCCCGGCCTACAGTGGGGCCCACCCTGTGCCTTCTGATGCCACTCCCACCCCACGCC[AG]AGTCCCAGAGGCTTTGGGAGCGGGTGAAGGCGGTGGGTGG CGGGTGGCAGGTGCAGGCGG	ctg832	11	
5614	I		A	AGGGTTTGGTCAGCACCTGCAAGGTCTT			
5614	P	A	A	CGCGCCGAGGATAGTTGCCATAGTGCCAY			
5614	P	G	A	ATGACGTGGCAGACGTAGTTGCCATAGTGCCY			
5614	T	A	A	ACTATGGCACTATGGCAACTATAGACCTTGCAGGTGCTGACCAAACCCTGT			
5614	T	G	A	ACTATGGCACTATGGCAACTACAGACCTTGCAGGTGCTGACCAAACCCTGT			
5614	IS	[AG]		AATTTATCTTTATTTCCTTCGGGACCTGGGGACAGGGTTTGGTCAGCACCTGCAAGGTCT[AG]TAGTTGCCATAGTGCCATAGTTACCATGAGGAACATGATGAGT GCTCTTGGCTTCCCAGG	ctg22fin3	22	
5628	I		S	AGGGCTTGCAGTTTCTCAGGCTCCAGTTCA			
5628	P	G	S	ATGACGTGGCAGACCATCTTCCCCACCCAY			
5628	P	A	S	CGCGCCGAGGTATCTTCCCCACCCACY			
5628	T	G	S	GGCTGTGGGTGGGGAAGATGGAACTGGAGCCTGAGAAACTGCAAGCCCTTT			
5628	T	A	S	GGCTGTGGGTGGGGAAGATAGAACTGGAGCCTGAGAAACTGCAAGCCCTTT			
5628	IS	[GA]		CTGGGGGCAGCCAGGAGGGGACAGGCAGGAGCAATGGGCTAGGCTGTGGGTGGGGAAGAT[GA]GAACTGGAGCCTGAGAAACTGCAAGCCCTTTGAAGACAGA AGCCATGAGAATCAACATGC	ctg15907	6	
5644	I		A	GTTCCTGGACAATTTCTCTGACATTTGAAATTTTCTTAATGCTA			
5644	P	T	A	CGCGCCGAGGTATTCATCATCAAATTTATATCAAATCCY			
5644	P	C	A	ATGACGTGGCAGACCATTCATCATCAAATTTATATCAAATCCY			
5644	T	T	A	TGGAGGATTTGATATAAATTTGATGATGAATAAGCATTAAGAAAATTTCAAATGTCAGAGAAATTGTCCAGGAACTA			
5644	T	C	A	TGGAGGATTTGATATAAATTTGATGATGAATGAGCATTAAGAAAATTTCAAATGTCAGAGAAATTGTCCAGGAACTA			
5644	IS	[TC]		GCCACTTTAATATGCTAGTTCCTGGACAATTTCTCTGACATTTGAAATTTTCTTAATGC[TC]ATTCATCATCAAATTTATATCAAATCCTCCAGTGTGTGAAACTGTC ATAGTTACTTAAAA	ctg15907	6	
5669	I		S	CTGTGACCCTGCCTGGAGATCCCATTCCT			
5669	P	T	S	CGCGCCGAGGAGTTTCTCCATCCAGACCY			
5669	P	C	S	ATGACGTGGCAGACGGTTTCTCCATCCAGACY			
5669	T	T	S	AGATGGTCTGGATGGAGAAACTGGAATGGGATCTCCAGGCAGGGTCACAGCC			
5669	T	C	S	AGATGGTCTGGATGGAGAAACCGGAATGGGATCTCCAGGCAGGGTCACAGCC			
5669	IS	[TC]		GCCGAGTCCTCACCTAATATCTGATGAGCTGGGCCCCACAGATGGTCTGGATGGAGAAAC[TC]GGAATGGGATCTCCAGGCAGGGTCACAGCCCATGTCCCCTG CAAAGGACAGACCAGGGCT	ctg12325	11	
5670	I		S	AGAGCCACCAGGTTGTGCAACTCCAGGA			
5670	P	G	S	ATGACGTGGCAGACCGGTGCTGTTTGCAY			
5670	P	A	S	CGCGCCGAGGTGGTGCTGTTTGCACY			
5670	T	G	S	TTCTGTGCAAACAGCACCACCTGGAGTTGCACAACCTGGTGGCTCTGA			
5670	T	A	S	TTCTGTGCAAACAGCACCACCTGGAGTTGCACAACCTGGTGGCTCTGA			
5670	IS	[GA]		TGACAGGGTGGGGAGATGTGAAAGGTCAAGGCTGTCATTGTTTTCTGTGCAAACAGCACC[GA]CCTGGAGTTGCACAACCTGGTGGCTCTGAGCAGGGTAGGAC AGAGGGAGGCAGCCTCTCA	ctg12325	11	
5678	I		S	AGCACAGTCTCAGGTTTCTCACCTATATATGTTAGCTAA			
5678	P	G	S	ATGACGTGGCAGACCGAGTAGTAGTAAACTAAAGCCY			
5678	P	A	S	CGCGCCGAGGTGAGTAGTAGTAAACTAAAGCCY			
5678	T	G	S	TGAGGGCTTTAGTTTACTACTACTCGTAGCTAACATATATAGGTGAGAAACCTGAGACTGTGCTCT			
5678	T	A	S	TGAGGGCTTTAGTTTACTACTACTCATAGCTAACATATATAGGTGAGAAACCTGAGACTGTGCTCT			
5678	IS	[GA]		CCAGTGCAGTTATTAATGGAGGTGCTGTTTCTCTCTGAGGGCTTTAGTTTACTACTACTC[GA]TAGCTAACATATATAGGTGAGAAACCTGAGACTGTGCTCTGGAT ATTGAGTGCCTCTGTT	ctg14583	1	
5679	I		A	TCCTTCAATGCCACCTCATGCTCAGCT			
5679	P	C	A	ATGACGTGGCAGACCTGTATGCCCATAGATAAACAY			
5679	P	A	A	CGCGCCGAGGATGTATGCCCATAGATAAACAY			
5679	T	C	A	AGGGTGTTTATCTATGGGCATACAGGCTGAGCATGAGGTGGCATTGAAGGAAG			
5679	T	A	A	AGGGTGTTTATCTATGGGCATACATGCTGAGCATGAGGTGGCATTGAAGGAAG			

FIGURE 129B



				GCTCTAGAAGGAAGCAAGCCTACTAAATACTTCTTCCTTCAATGCCACCTCATGCTCAGC[CA]TGTATGCCCATAGATAAACACCCTCCCCTCACCCTTAGTTCTGA			
5679	IS	[CA]		GGAGACCATTTGGAAG	ctg14583	1	
5681	I		S	AGCTGATGGCCTGGTGTGTAGGGGGTAATTAGC			
5681	P	T	S	CGCGCCGAGGAATCGGCTAAATTGCAATGY			
5681	P	A	S	ATGACGTGGCAGACTATCGGCTAAATTGCAATGAY			
5681	T	T	S	CAGCTCATTGCAATTTAGCCGATTCTAATTACCCCCTACACACCAGGCCATCAGCTGC			
5681	T	A	S	CAGCTCATTGCAATTTAGCCGATACTAATTACCCCCTACACACCAGGCCATCAGCTGC			
				GATCTAGGGTGTATGCTTGGAGGAGTGGAGCAGCTGACAGCTCATTGCAATTTAGCCGAT[TA]CTAATTACCCCCTACACACCAGGCCATCAGCTGCAGGAGACA			
5681	IS	[TA]		CCCAAGCTTCTTGACCTC	ctg16401	17	
5684	I		A	GTTTGGGGCTGAAGCCAGGAACCGTCT			
5684	P	G	A	ATGACGTGGCAGACGCTCTCTCTGGTTCTTACTY			
5684	P	A	A	CGCGCCGAGGACTCTCTCTGGTTCTTACTGY			
5684	T	G	A	CTACCAGTAAGAACCAGAGAGAGCGACGGTTCCTGGCTTCAGCCCCAAACCC			
5684	T	A	A	CTACCAGTAAGAACCAGAGAGAGTGACGGTTCCTGGCTTCAGCCCCAAACCC			
				AGGGCTCCCACCAAGGCTGATATTGACAGCCAGGGTTTGGGGCTGAAGCCAGGAACCGTC[GA]CTCTCTCTGGTTCTTACTGGTAGCCCTCATGGGGGTCCCTG			
5684	IS	[GA]		ACGCCAGAGCCCTCCAAGGC	ctg17450	X	
5695	I		S	CAAATCAACTCCCACCTGGTACTGAGCACATGTGT			
5695	P	C	S	ATGACGTGGCAGACGATATATAAATACCCGCTTTAGTTCY			
5695	P	G	S	CGCGCCGAGGCATATATAAATACCCGCTTTAGTTCY			
5695	T	C	S	AAAAGAACTAAAGCGGGTATTTATATATCCACATGTGCTCAGTACCAGGTGGGAGTTGATTTGTC			
5695	T	G	S	AAAAGAACTAAAGCGGGTATTTATATATGCACATGTGCTCAGTACCAGGTGGGAGTTGATTTGTC			
				AGGATAGTGAGTCCTCTTCCTTCTCACTGTGGAAAAGAACTAAAGCGGGTATTTATATAT[CG]CACATGTGCTCAGTACCAGGTGGGAGTTGATTTGTCTTCTCATT			
5695	IS	[CG]		GTTCTCTTTGGCTGTG	ctg11	15	
5703	I		A	GGCAGACACTTACTGGGCAGGGGGGT			
5703	P	A	A	CGCGCCGAGGATCCCAAGAGCAGCCY			
5703	P	G	A	ATGACGTGGCAGACGTCCCAAGAGCAGCCY			
5703	T	A	A	CCATGGCTGCTCTTGGGATCCCCCCTGCCCAGTAAGTGTCTGCCAG			
5703	T	G	A	CCATGGCTGCTCTTGGGACCCCCCCTGCCCAGTAAGTGTCTGCCAG			
				AGTTTCATGGATGCCAGCTGGAGAGCACGGCACCTGGCAGACACTTACTGGGCAGGGGGG[AG]TCCCAAGAGCAGCCATGGGGTGAGCCCCACTCCCGCTGAC			
5703	IS	[AG]		ACCAGAGACAGGGGAGACAT	ctg22fin4	22	
5709	I		A	TCAAAGTCCTTGCCAGTACTGAAATACAGAGAAGACACCAGC			
5709	P	A	A	CGCGCCGAGGACATTCCTGAATTGTCATACAY			
5709	P	T	A	ATGACGTGGCAGACTCATTCCTGAATTGTCATACAY			
5709	T	A	A	GGGCTGTATGACAATTCAGGAATGTCTGGTGTCTTCTCTGTATTTCAGTACTGGCAAGGACTTTGACA			
5709	T	T	A	GGGCTGTATGACAATTCAGGAATGACTGGTGTCTTCTCTGTATTTCAGTACTGGCAAGGACTTTGACA			
				GCACAGGTCAGGGTGCATGTCAAAGTCCTTGCCAGTACTGAAATACAGAGAAGACACCAG[AT]CATTCCTGAATTGTCATACAGCCCTTCTGAGATATGGACCATC			
5709	IS	[AT]		TTTATCAGAATGTATAG	ctg13538	4	
5718	I		A	GCGGGTGGGGGAGGGAGCAA			
5718	P	T	A	CGCGCCGAGGTGCAACTCATGAGGAATGY			
5718	P	C	A	ATGACGTGGCAGACCGCAACTCATGAGGAATY			
5718	T	T	A	CCATCATTCCTCATGAGTTGCATGCTCCCTCCCCCACCCGCCC			
5718	T	C	A	CCATCATTCCTCATGAGTTGCGTGCTCCCTCCCCCACCCGCCC			
				GTGCCGGTGAGCAATAAGCCAGGCCTGCGGCTCTCCCAGGGGCGGGTGGGGGAGGGAGCA[TC]GCAACTCATGAGGAATGATGGGAGGAAAGTGAATTGAGG			
5718	IS	[TC]		GAGGTAAAGAGGAAGGATGGG	ctg17326	12	
5722	I		S	GCCCCTTCATACTAAACAGGCAGTCTATACCACAAAGTATAACACT			
5722	P	G	S	ATGACGTGGCAGACCCAGTTTCCACAAATTCCAY			
5722	P	T	S	CGCGCCGAGGACAGTTTCCACAAATTCCAY			
5722	T	G	S	GAGGTGGAATTTGTGGAAACTGGGTGTTATACTTTGTGGTATAGACTGCCTGTTTAGTATGAAGGGGCGA			
5722	T	T	S	GAGGTGGAATTTGTGGAAACTGTGTGTTATACTTTGTGGTATAGACTGCCTGTTTAGTATGAAGGGGCGA			
				GGGAGAGGGTACACAATGGGTATCTAATAAATACTTAAGAGGTGGAATTTGTGGAAACTG[GT]GTGTTATACTTTGTGGTATAGACTGCCTGTTTAGTATGAAGGG			
5722	IS	[GT]		GCGATCCATGCACATCT	ctg3235	11	
5723	I		S	GCTCCAGGTCCAAGATCATGTCTAGAGCTTGTCGT			
5723	P	T	S	CGCGCCGAGGATAGTGAGGGACCTGCY			
5723	P	C	S	ATGACGTGGCAGACGTAGTGAGGGACCTGCY			
5723	T	T	S	ATGAGCAGGTCCCTCACTATCGACAAGCTCTAGACATGATCTTGGACCTGGAGCCT			
5723	T	C	S	ATGAGCAGGTCCCTCACTACCGACAAGCTCTAGACATGATCTTGGACCTGGAGCCT			
				TGAAGACTACATCCAGGACAAATTTAATCTTACTGGACTCAATGAGCAGGTCCCTCACTA[TC]CGACAAGCTCTAGACATGATCTTGGACCTGGAGCCTGGTGAGG			
5723	IS	[TC]		CACCCTCAGGGTTGTTT	ctg15907	6	
5726	I		A	GCCTGCCTGCACAAACCCTAGGTGCT			
5726	P	A	A	CGCGCCGAGGAATGTCCTAATCCTTGTTGGY			
5726	P	C	A	ATGACGTGGCAGACCATGTCCTAATCCTTGTTGGY			
5726	T	A	A	AGACCCAACAAGGATTAGGACATTGCACCTAGGGTTTGTGCAGGCAGGCCA			
5726	T	C	A	AGACCCAACAAGGATTAGGACATGGCACCTAGGGTTTGTGCAGGCAGGCCA			
				TCACGTCACTTTGCCCGTCTGTCTGCAGCAGCATGGCCTGCCTGCACAAACCCTAGGTGC[AC]ATGTCCTAATCCTTGTTGGGTCTTTGTATTCAAGTTTGAAGCT			
5726	IS	[AC]		GGGAGGGCCTGGCTACT	ctg16335	2	
5728	I		A	CTCCAAATCCAAGGAAACATGCAGCTCTTCAACATGACT			
5728	P	A	A	CGCGCCGAGGATCCAGAGATGACTATTACTTTTCY			
5728	P	G	A	ATGACGTGGCAGACGTCCAGAGATGACTATTACTTTTY			
5728	T	A	A	AACAGAAAAGTAATAGTCATCTCTGGATGTCATGTTGAAGAGCTGCATGTTTCCTTGGATTTGGAGCT			
5728	T	G	A	AACAGAAAAGTAATAGTCATCTCTGGACGTCATGTTGAAGAGCTGCATGTTTCCTTGGATTTGGAGCT			
				AAACCAGCTCTGAACTTCCAAGCTCCAAATCCAAGGAAACATGCAGCTCTTCAACATGAC[AG]TCCAGAGATGACTATTACTTTTCTGTTTAGTTTTACACTAGGAAA			
5728	IS	[AG]		CGTGTTGTATCTACA	ctg17944	8	NOV
5742	I		S	CAGGAAGGTGAGGCCCCCTCTCCACT			
5742	P	C	S	ATGACGTGGCAGACGTACCCTTGCTGTGGTY			
5742	P	T	S	CGCGCCGAGGATACCCTTGCTGTGGTY			
5742	T	C	S	CACAACCACAGCAAGGGTACGTGGAGAGGGGGCCTCACCTTCCTGAG			
5742	T	T	S	CACAACCACAGCAAGGGTATGTGGAGAGGGGGCCTCACCTTCCTGAG			
				ATCACATGTTCACTGTTGACTTCTGGACTATTATGGAAAATCACAACCACAGCAAGGGTA[CT]GTGGAGAGGGGGCCTCACCTTCCTGAGGTTGTCAGAGCTTTTC			
5742	IS	[CT]		ATCTTTTCATGCATCTT	ctg15907	6	
5746	I		S	CCAAGTCCCTGAGCTTCTTCCACCAAGGTCA			
5746	P	A	S	CGCGCCGAGGTCATTCACTACCTGAGCAY			
5746	P	G	S	ATGACGTGGCAGACCCATTCACTACCTGAGCY			
5746	T	A	S	TCATTGCTCAGGTAGTGAATGAGACCTTGGTGGAAGAAGCTCAGGGACTTGGGG			
5746	T	G	S	TCATTGCTCAGGTAGTGAATGGGACCTTGGTGGAAGAAGCTCAGGGACTTGGGG			
				AGGATGACCTGAATGAGCTGATGCAGAAGCACAAGGACCTCATTGCTCAGGTAGTGAATG[AG]GACCTTGGTGGAAGAAGCTCAGGGACTTGGGGTGGGGTGAA			
5746	IS	[AG]		TGGGGAATGTTGAGAAGGT	ctg22fin4	22	
5749	I		S	GGTAGCAGCTTTCACCTCCTTGGGGGTT			
5749	P	T	S	CGCGCCGAGGAGGAGAGTTCCCTCTGTY			
5749	P	C	S	ATGACGTGGCAGACGGGAGAGTTCCCTCTGY			
5749	T	T	S	CCAAACAGAGGGAACTCTCCTACCCCCAAGGAGGTGAAAGCTGCTACCAC			
5749	T	C	S	CCAAACAGAGGGAACTCTCCCACCCCCAAGGAGGTGAAAGCTGCTACCAC			
				TCCCTCGCTCCTTCCTCTGCATTGCCCCTCTTCTCCCTCTCCAAACAGAGGGAACTCTCC[TC]ACCCCCAAGGAGGTGAAAGCTGCTACCACCTCTGTGCCCCCC			
5749	IS	[TC]		CGGCAATGCCACCAACTG			
5753	I		A	CCTCAGGGTGGGAGATGAAGGGGGCTAC			
5753	P	A	A	CGCGCCGAGGAGCTATGGCCCATCTGY			
5753	P	T	A	ATGACGTGGCAGACTGCTATGGCCCATCTY			
5753	T	A	A	CATACAGATGGGCCATAGCTTAGCCCCCTTCATCTCCCACCCTGAGGCC			
5753	T	T	A	CATACAGATGGGCCATAGCATAGCCCCCTTCATCTCCCACCCTGAGGCC			

FIGURE 129B

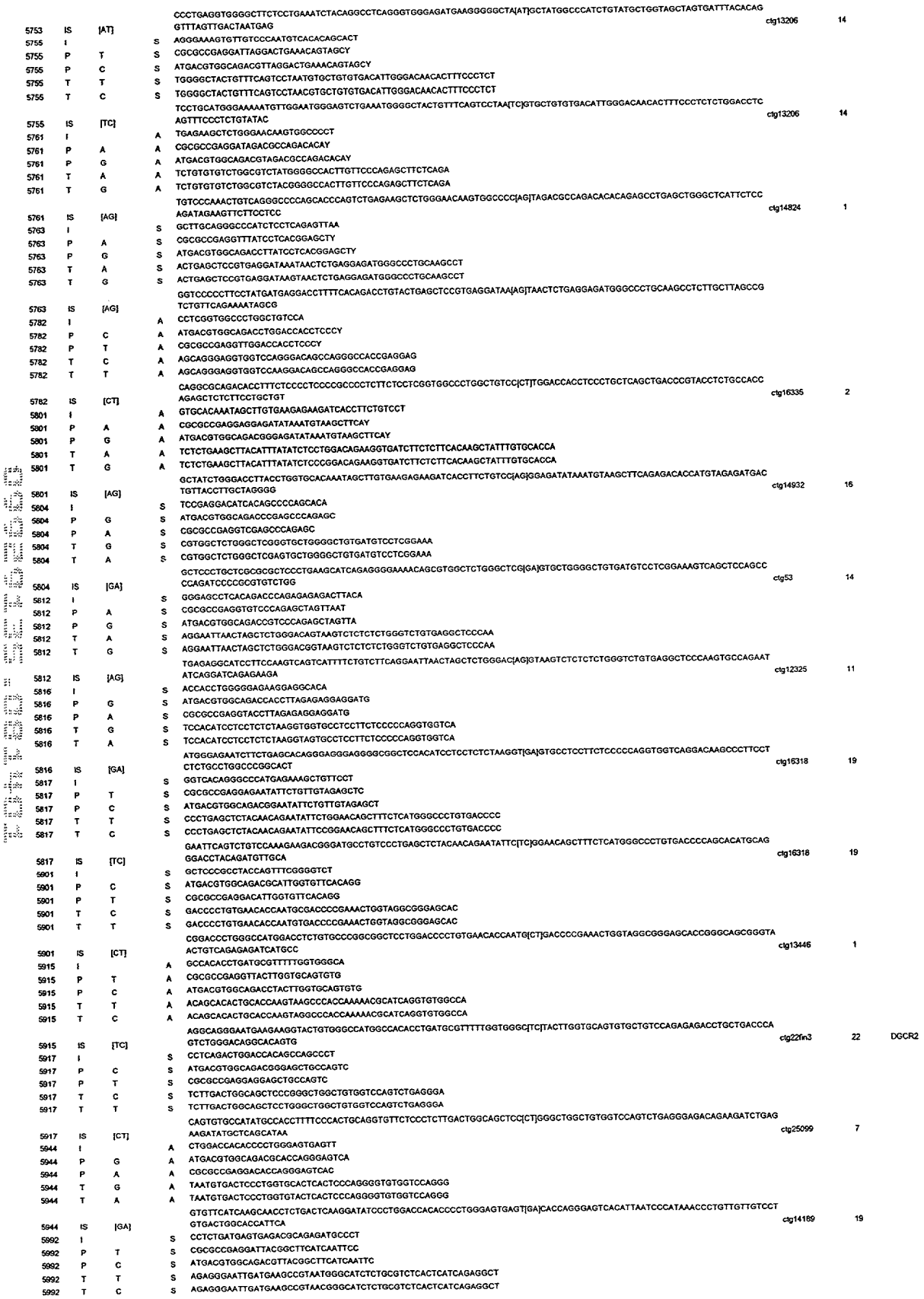


FIGURE 129B

				GCAGAGCTCAGAGATTGGGCACTTTCCTCAGCCTGATAGAGGGAATTGATGAAGCCGTAA[TC]GGGCATCTCTGCGTCTCACTCATCAGAGGCTTGACTAGCACC			
5992	IS	[TC]		CAACCCCTCTGTTGGCGT	ctg22fin4	22	
5993	I		A	TTGCCTCTGAAGCCTCACGGCTTCACATA			
5993	P	T	A	CGCGCCGAGGTCCACAGATGCCACC			
5993	P	C	A	ATGACGTGGCAGACCCCACAGATGCCACC			
5993	T	T	A	GACAGGTGGCATCTGTGGAATGTGAAGCCGTGAGGCTTCAGAGGCAAGA			
5993	T	C	A	GACAGGTGGCATCTGTGGGATGTGAAGCCGTGAGGCTTCAGAGGCAAGA			
				CCTTTCCTGATTATCCAACGATAGAGTCTGTCTTGCCTCTGAAGCCTCACGGCTTCACAT[TC]CCACAGATGCCACCTGTCTTTATTCCTCTACCACATTGTACACT			
5993	IS	[TC]		CTCAGAGAGCAGGGCT	ctg16391	X	
5995	I		A	CTACCCCTGGTCTTAATCCACTTCTTTTGTTTTTTGCCAATTTGA			
5995	P	C	A	ATGACGTGGCAGACCCCCCACCTCCC			
5995	P	T	A	CGCGCCGAGGTCCCCACCTCCCC			
5995	T	C	A	CGGGGGGGAGGTGGGGGCAAATTGGCAAAAAACAAAAGAAGTGGATTAAGACCAGGGGTAGGG			
5995	T	T	A	CGGGGGGGAGGTGGGGACAAATTGGCAAAAAACAAAAGAAGTGGATTAAGACCAGGGGTAGGG			
				GGGTGTTCTAATCTCCCTACCCCTGGTCTTAATCCACTTCTTTTGTTTTTTGCCAATTTG[CT]CCCCACCTCCCCCCCGATTAGGCAACGTAGTATTGTGGTTAAGA			
5995	IS	[CT]		GACTCAATGCTTAATT	ctg15907	6	
6009	I		S	CGGGGCAGGAGGAGGTTCATGATCCTTT			
6009	P	C	S	ATGACGTGGCAGACGCTTACTCCTAGCTTCGT			
6009	P	T	S	CGCGCCGAGGACTTACTCCTAGCTTCGTAA			
6009	T	C	S	CTAATTACGAAGCTAGGAGTAAGCAAGGATCATGAACCTCCTCCTGCCCCGGG			
6009	T	T	S	CTAATTACGAAGCTAGGAGTAAGTAAGGATCATGAACCTCCTCCTGCCCCGGG			
				CGGTCGAACCGTGACTCTGGAACTGGAAAAGTTGAACCTAATTACGAAGCTAGGAGTAAG[CT]AAGGATCATGAACCTCCTCCTGCCCCGGGGGCATCAAGCGCG			
6009	IS	[CT]		TGGCAGGGCTGCCCCGTG	ctg16829	1	
6012	I		A	AGTATCCTGAGGGCAGAGATCACAGGTACTTCACTACATAA			
6012	P	T	A	CGCGCCGAGGTGTCAGCACCTGGC			
6012	P	C	A	ATGACGTGGCAGACCGTCAGCACCTGGC			
6012	T	T	A	GTATGCCAGGTGCTGACATATGTAGTGAAGTACCTGTGATCTCTGCCCTCAGGATACTGA			
6012	T	C	A	GTATGCCAGGTGCTGACGTATGTAGTGAAGTACCTGTGATCTCTGCCCTCAGGATACTGA			
				ACAGAGTGAGTGACCCTATCAGTATCCTGAGGGCAGAGATCACAGGTACTTCACTACATA[TC]GTCAGCACCTGGCATACAATCGTGTATGCTAGGGGGCTTCATC			
6012	IS	[TC]		AGTGTCTCCTATGGGCT	ctg13446	1	
6014	I		A	AGCAATGCCCTGATGCCCTCCTCCTTCT			
6014	P	G	A	ATGACGTGGCAGACGCTCTCTATGGGCTGGY			
6014	P	A	A	CGCGCCGAGGACTCTCTATGGGCTGGY			
6014	T	G	A	GAAGCCAGCCCATAGAGAGCGAAGGAGGAGGGCATCAGGGCATTGCTCC			
6014	T	A	A	GAAGCCAGCCCATAGAGAGTGAAGGAGGAGGGCATCAGGGCATTGCTCC			
				CTCCCCCTCTTCCAGATCCTGGCTTCCATGAGGAGCAATGCCCTGATGCCCTCCTCCTTC[GA]CTCTCTATGGGCTGGCTTCAGCTACCATCTGTACAGCTGCAG			
6014	IS	[GA]		CTCCAAAATCTCTTCCAC	ctg15478	1	
6015	I		A	CCCTGTGAACTGCGTGGGGAGAGCACA			
6015	P	C	A	ATGACGTGGCAGACCGTCAGTGGACCCTG			
6015	P	T	A	CGCGCCGAGGTGTCAGTGGACCCTG			
6015	T	C	A	GAGGCAGGGTCCACTGACGGTGCTCTCCCCACGCAGTTCACAGGGCA			
6015	T	T	A	GAGGCAGGGTCCACTGACAGTGCTCTCCCCACGCAGTTCACAGGGCA			
				TCAGGCCACCAAAGCCTTCCCGACAGGGGCACTGCCCTGTGAACTGCGTGGGGAGAGCAC[CT]GTCAGTGGACCCTGCCTCACAGCCTCTGCCTTACCCTGGTG			
6015	IS	[CT]		TCAGGGACTGTGTCCTAGA	ctg15478	1	
6031	I		A	ATCAACCTGCAAATCATGTTATGGTTAATAAAGCAGTAAATTAAGCA			
6031	P	C	A	ATGACGTGGCAGACCTTCCTGGCTCTACCTG			
6031	P	T	A	CGCGCCGAGGTTTCCTGGCTCTACCTG			
6031	T	C	A	ACTGCAGGTAGAGCCAGGAAGGCTTAATTTACTGCTTTATTAACCATAACATGATTTGCAGGTTGATTT			
6031	T	T	A	ACTGCAGGTAGAGCCAGGAAAGCTTAATTTACTGCTTTATTAACCATAACATGATTTGCAGGTTGATTT			
				CTCACACAAAAAAAATCAACCTGCAAATCATGTTATGGTTAATAAAGCAGTAAATTAAGC[CT]TTCCTGGCTCTACCTGCAGTATCCTGAAGGTAGTCACAGTGCCC			
6031	IS	[CT]		TTTCTGTTTCATTTTA			
6036	I		S	CTCTCTCCCTCCCCATGCCACTGGTCT			
6036	P	T	S	CGCGCCGAGGACCATCTCAAGCCTCC			
6036	P	C	S	ATGACGTGGCAGACGCCATCTCAAGCCTC			
6036	T	T	S	CAGGGGAGGCTTGAGATGGTGACCAGTGGCATGGGGAGGGAGAGAGGG			
6036	T	C	S	CAGGGGAGGCTTGAGATGGCGACCAGTGGCATGGGGAGGGAGAGAGGG			
				CAAAGACTGAAGGCCATACAGGGAAGGAGCTGGGGAAACTGCAGGGGAGGCTTGAGATGG[TC]GACCAGTGGCATGGGGAGGGAGAGAGGAACCCCGAGGG			
6036	IS	[TC]		AAGTGGGGTGGGGACCAGGAG	ctg16282	1	
6041	I		A	GAAATGAAAAGAATATAATCTTTAACAAAAAAGGCAAAAAGTCTTTATGGTACAGTTT			
6041	P	A	A	CGCGCCGAGGATACTGCGACTTTGTTGC			
6041	P	G	A	ATGACGTGGCAGACGTACTGCGACTTTGTTGC			
6041	T	A	A	TTAAGCAACAAAGTCGCAGTATAACTGTACCATAAAGACTTTTTGCCTTTTTTGTTAAAGATTATATTCTTTTCATTTCTA			
6041	T	G	A	TTAAGCAACAAAGTCGCAGTACAACTGTACCATAAAGACTTTTTGCCTTTTTTGTTAAAGATTATATTCTTTTCATTTCTA			
				CTAGAAATGAAAAGAATATAATCTTTAACAAAAAAGGCAAAAAGTCTTTATGGTACAGTT[AG]TACTGCGACTTTGTTGCTTAAAACACAGTTGGCAGAGAGATGAAA			
6041	IS	[AG]		ACTAAAGGTTTTTTA	ctg17341	14	
6044	I		A	GGTCATTCCCAGACAATTTTGGTTATTCCCTCTAGAATA			
6044	P	T	A	CGCGCCGAGGTTCTTTTCTCCTTTCCTGTAAG			
6044	P	C	A	ATGACGTGGCAGACCTCTTTTCTCCTTTCCTGTAA			
6044	T	T	A	TCTGCTTACAGGAAAGGAGAAAAGAAATTCTAGAGGGAATAACCAAAATTGTCTGGGAATGACCAA			
6044	T	C	A	TCTGCTTACAGGAAAGGAGAAAAGAGATTCTAGAGGGAATAACCAAAATTGTCTGGGAATGACCAA			
				ATTTCAAGACAGACAGATATTTGGTCATTCCCAGACAATTTTGGTTATTCCCTCTAGAAT[TC]TCTTTTCTCCTTTCCTTCCTGTAAGCAGAATTTTCATAAACACTTTGGCC			
6044	IS	[TC]		ACCCTAAGTCTGAT	ctg15054	1	
6047	I		S	CTGACCCAGACCTGCCCTGTGCCC			
6047	P	A	S	CGCGCCGAGGTTGTGCTGGTTTTATAATCTG			
6047	P	T	S	ATGACGTGGCAGACATGTGCTGGTTTTATAATCTG			
6047	T	A	S	CACGCAGATTATAAAACCAGCACAAGGCACAGGGCAGGTCTGGGTCAGCC			
6047	T	T	S	CACGCAGATTATAAAACCAGCACATGGCACAGGGCAGGTCTGGGTCAGCC			
				TGGAAATCACTGCAGGGTGCAGCTGTGAGGAAGACCCACGCAGATTATAAAACCAGCACA[AT]GGCACAGGGCAGGTCTGGGTCAGCCTGAAGGGGTACAGGAG			
6047	IS	[AT]		CATGTCTGTCTCTTCTCAG	ctg12823	16	
6049	I		A	CAACTTTCACTCTCTTGAAGGTGGGTGGGCCT			
6049	P	G	A	ATGACGTGGCAGACGCTACCACCAAGAATATCTC			
6049	P	A	A	CGCGCCGAGGACTACCACCAAGAATATCTCC			
6049	T	G	A	TTCAGGAGATATTCTTGGTGGTAGCGGCCCACCCACCTTCAAGAGAGTGAAAGTTGCA			
6049	T	A	A	TTCAGGAGATATTCTTGGTGGTAGTGGCCCACCCACCTTCAAGAGAGTGAAAGTTGCA			
				ACAAAAGTCAAAAATTCCCTGTGAACTTGCAACTTTCACTCTCTTGAAGGTGGGTGGGCC[GA]CTACCACCAAGAATATCTCCTGAAATAGGGCCTACAATCATAAA	MULTIPLE	MULTIPLE	
6049	IS	[GA]		TGCACAGGACTATATC			
6055	I		S	CCAACTTCTTCAAGTGGCATTAACATCTGAATTACTTTTCCTGTGCC			
6055	P	A	S	CGCGCCGAGGTGCAGTGATTTCCATAATACT			
6055	P	T	S	ATGACGTGGCAGACAGCAGTGATTTCCATAATACTT			
6055	T	A	S	TGAAAAGTATTATGGAAATCACTGCAGCACAGGAAAAGTAATTCAGATGTTAATGCCACTTGAAGAAGTTGGTA			
6055	T	T	S	TGAAAAGTATTATGGAAATCACTCCTGCACAGGAAAAGTAATTCAGATGTTAATGCCACTTGAAGAAGTTGGTA			
				TAAATCTTGAACAGGTTCACTAAGCACCCACCCTGTGAAAAGTATTATGGAAATCACTGC[AT]GCACAGGAAAAGTAATTCAGATGTTAATGCCACTTGAAGAAGTT			
6055	IS	[AT]		GGTAGGCTAGCAAAGA	ctg14637	5	BHMT
6056	I		A	CCTTTTCAGGGGACCACAGTCAGGGGGT			
6056	P	A	A	CGCGCCGAGGAATGCTGATAGACTATATCTACTG			
6056	P	G	A	ATGACGTGGCAGACGATGCTGATAGACTATATCTACTG			
6056	T	A	A	GGCCCAGTAGATATAGTCTATCAGCATTCCCCCTGACTGTGGTCCCCTGAAAAGGAA			
6056	T	G	A	GGCCCAGTAGATATAGTCTATCAGCATCCCCCCTGACTGTGGTCCCCTGAAAAGGAA			

FIGURE 129B

				ATTTCCAGCAAGCCCCCAGACAATGTGGATATTCCTTTTCAGGGGACCACAGTCAGGGGG[AG]ATGCTGATAGACTATATCTACTGGGCCAAAATAAAAATTAAAA			
6056	IS	[AG]		TCTTATGCACAAGCTAC	ctg21fm2	21	
6068	I		S	CCTCTGCCACGTTTTTTCTTCCCATGCTCTGGT			
6068	P	C	S	ATGACGTGGCAGACGGTCTGTTCCTTCTTTGATT			
6068	P	G	S	CGCGCCGAGGCGTCTGTTCCTTCTTTGAT			
6068	T	C	S	CCTGAATCAAAGAAGGAACAGACCCCAGAGCATGGGAAGAAAAAACGTGGCAGAGGAA			
6068	T	G	S	CCTGAATCAAAGAAGGAACAGACGCCAGAGCATGGGAAGAAAAAACGTGGCAGAGGAA			
				TGTGGCACCTGAAAGTGGTGATACTACAGTGAAGAAACCTGAATCAAAGAAGGAACAGAC[CG]CCAGAGCATGGGAAGAAAAAACGTGGCAGAGGAAAAGCCCAA			
6068	IS	[CG]		GTTAAAGCAACAAATGAA	ctg14945	16	
6081	I		A	GCCTTGGTCTTTGTAGGGGAAGCCTTACTGTATCTGAT			
6081	P	A	A	CGCGCCGAGGAAGAAACCTAGACCTGAAGG			
6081	P	C	A	ATGACGTGGCAGACCAGAAACCTAGACCTGAAG			
6081	T	A	A	AAGCCCTTCAGGTCTAGGTTTCTTTCAGATACAGTAAGGCTTCCCCTACAAAGACCAAGGCAT			
6081	T	C	A	AAGCCCTTCAGGTCTAGGTTTCTGTCAGATACAGTAAGGCTTCCCCTACAAAGACCAAGGCAT			
				CACAGTCACAGGGCTGTGTTTATGCCTTGGTCTTTGTAGGGGAAGCCTTACTGTATCTGA[AC]AGAAACCTAGACCTGAAGGGCTTCTTTCTGTAATAGCTTTTAAT			
6081	IS	[AC]		GAGGGCTGAGGAGCAG	ctg15361	6	
6103	I		A	ACCAGTGGCCAGGGCTGCTCACTACA			
6103	P	T	A	CGCGCCGAGGTCACCCTGAGATGCTTAG			
6103	P	C	A	ATGACGTGGCAGACCCACCCTGAGATGCT			
6103	T	T	A	CAGACTAAGCATCTCAGGGTGAGTAGTGAGCAGCCCTGGCCACTGGTGC			
6103	T	C	A	CAGACTAAGCATCTCAGGGTGGGTAGTGAGCAGCCCTGGCCACTGGTGC			
				TCCCTCTCCCACTGTGACCACCATCCCAGTGGGGCACCAGTGGCCAGGGCTGCTCACTAC[TC]CACCCTGAGATGCTTAGTCTGCCAAGAGACTCCCTGGCTTTT			
6103	IS	[TC]		AAGGAACAAGCAGCAGGT	ctg16733	3	
6128	I		A	AGCCACGGAGAAGCCTCTCATCTTATGGCAA			
6128	P	T	A	CGCGCCGAGGTTGACAAAGAGAAGACCATC			
6128	P	C	A	ATGACGTGGCAGACCTGACAAAGAGAAGACCATC			
6128	T	T	A	GGTGGATGGTCTTCTCTTTGTCAATGCCATAAGATGAGAGGCTTCTCCGTGGCTTT			
6128	T	C	A	GGTGGATGGTCTTCTCTTTGTCAGTGCCATAAGATGAGAGGCTTCTCCGTGGCTTT			
				AGGTTCTTTTGCTGGGCTCCAAGATCTTAAAGCCACGGAGAAGCCTCTCATCTTATGGCA[TC]TGACAAAGAGAAGACCATCCACCTTACCCTGAAAGTGGTGAAG			
6128	IS	[TC]		CCCAGTGATGAGGAGCT	ctg15907	6	UBD
6138	I		A	GCCACTCACCTGTCGTTTTCCTTAGGACTTGCT			
6138	P	G	A	ATGACGTGGCAGACGTCTTCCAAGACCCATG			
6138	P	A	A	CGCGCCGAGGATCTTCCAAGACCCATGA			
6138	T	G	A	TATTTCATGGGTCTTGGAAGACGCAAGTCCTAAGGAAAACGACAGGTGAGTGGCAG			
6138	T	A	A	TATTTCATGGGTCTTGGAAGATGCAAGTCCTAAGGAAAACGACAGGTGAGTGGCAG			
				ATGAGATAAGTCATTCTGGCTCAGTGCTGCCACTCACCTGTCGTTTTCCTTAGGACTTGC[GA]TCTTCCAAGACCCATGAAATAACCCAGCTGGAGTCATGGGAGG			
6138	IS	[GA]		AGCCCTTCATGCCTGCT	ctg14243	19	
6143	I		S	ACAACCCTCCTGAAGAATAGTATTTCTTGAAGTGTGGT			
6143	P	T	S	CGCGCCGAGGACTAAGAACAACATCTATCAGAC			
6143	P	G	S	ATGACGTGGCAGACCCTAAGAACAACATCTATCAGA			
6143	T	T	S	GAGAGTCTGATAGATGTTGTTCTTAGTCCACACTTCAAGAAATACTATTCTTCAGGAGGGTTGTAA			
6143	T	G	S	GAGAGTCTGATAGATGTTGTTCTTAGGCCACACTTCAAGAAATACTATTCTTCAGGAGGGTTGTAA			
				GCTTGGGAGTCTTTATTTTAAACAAGGTTCCCAAGAGAGTCTGATAGATGTTGTTCTTAG[TG]CCACACTTCAAGAAATACTATTCTTCAGGAGGGTTGTAAATTCC			
6143	IS	[TG]		CTAAAAGTAAATGCAA	ctg17241	X	
6148	I		S	ACTGATGCTGCCCTCCAGTCCCCTATGTACA			
6148	P	A	S	CGCGCCGAGGTTCTTCCTGCGCACC			
6148	P	G	S	ATGACGTGGCAGACCTCTTCCTGCGCAC			
6148	T	A	S	AGAGGGTGCGCAGGAAGAAGTACATAGGGGACTGGAGGGCAGCATCAGTGG			
6148	T	G	S	AGAGGGTGCGCAGGAAGAGGTACATAGGGGACTGGAGGGCAGCATCAGTGG			
				GCAGGGGGACCGTGACAGACGTATAGCCAATCTCCAAGGCCGAGAGGGTGCGCAGGAAGA[AG]GTACATAGGGGACTGGAGGGCAGCATCAGTGGAGACCAGC			
6148	IS	[AG]		ACCACAATGAGGAAATTGCC	ctg15907	6	OR10C1
6149	I		A	CCCAGCTGCACAATAGAAGCCCCCCTA			
6149	P	C	A	ATGACGTGGCAGACCCCTCTTTGCACTTTCTAA			
6149	P	T	A	CGCGCCGAGGTCCTCTTTGCACTTTCTAATC			
6149	T	C	A	GGCTGATTAGAAAGTGCAAAGAGGGAGGGGGGCTTCTATTGTGCAGCTGGGAA			
6149	T	T	A	GGCTGATTAGAAAGTGCAAAGAGGAAGGGGGGCTTCTATTGTGCAGCTGGGAA			
				CCCCAGGTAGCCCCTTTTGCAACAGGAAGAATTTCCCAGCTGCACAATAGAAGCCCCCCT[CT]CCTCTTTGCACTTTCTAATCAGCCTACTCTTTAGTCTGCAGTA			
6149	IS	[CT]		GAGGCCTCTGCTTGCTA	ctg15907	6	
6150	I		S	CCAGCGGATGTGACCCTGGACCCA			
6150	P	A	S	CGCGCCGAGGTGAGACAGCTCATCCTAA			
6150	P	G	S	ATGACGTGGCAGACCGAGACAGCTCATCCTA			
6150	T	A	S	TAGGTTAGGATGAGCTGTCTCAGGGTCCAGGGTCACATCCGCTGGCG			
6150	T	G	S	TAGGTTAGGATGAGCTGTCTCGGGGTCCAGGGTCACATCCGCTGGCG			
				CTCCACGAACTTGACGCTCTTACGATCCTCTGACAGGACTAGGTTAGGATGAGCTGTCTC[AG]GGGTCCAGGGTCACATCCGCTGGCGGGAGAAGCCAGAGTGG			
6150	IS	[AG]		GGAGCTAGATGAGGATGGG	ctg15907	6	
6151	I		A	TCTGCTTCCCCACCTTGTACTCCTGTGTAGCT			
6151	P	G	A	ATGACGTGGCAGACGTCGTCCAGTGGCA			
6151	P	A	A	CGCGCCGAGGATCGTCCAGTGGCAC			
6151	T	G	A	CGTTGTGCCACTGGACGACGCTACACAGGAGTACAAGGTGGGGAAGCAGACA			
6151	T	A	A	CGTTGTGCCACTGGACGATGCTACACAGGAGTACAAGGTGGGGAAGCAGACA			
				TCCCTTTTTACCCACACTGACATCGTGTGTCTGCTTCCCCACCTTGTACTCCTGTGTAGC[GA]TCGTCCAGTGGCACAACGGTGTGGGCCCGGTGGGTGTGGGAA			
6151	IS	[GA]		ATTGCACATATCAAGCAT	ctg15907	6	
6161	I		S	CCTGATGCTTCAGAGTCTATGGCAACCGTTCCT			
6161	P	C	S	ATGACGTGGCAGACGTATGTTGCGGCTGC			
6161	P	T	S	CGCGCCGAGGATATGTTGCGGCTGC			
6161	T	C	S	AGCAGCAGCCGCAACATACGGAACGGTTGCCATAGACTCTGAAGCATCAGGGC			
6161	T	T	S	AGCAGCAGCCGCAACATATGGAACGGTTGCCATAGACTCTGAAGCATCAGGGC			
				GCACCAAAGGACACAGAGAATAATAATAATGATAACAAAAACAGCAGCAGCCGCAACATA[CT]GGAACGGTTGCCATAGACTCTGAAGCATCAGGGCTTTCCCTGA			
6161	IS	[CT]		AAAAAAGGGCCTTGTTG			
6162	I		A	GACCCCCGCACCCCACAGGAA			
6162	P	T	A	CGCGCCGAGGTCCTAGTAGTGGTGAGTG			
6162	P	C	A	ATGACGTGGCAGACCCCTAGTAGTGGTGAGTG			
6162	T	T	A	TGCCCACTCACCAGTACTAGGATCCTGTGGGGTGCGGGGGTCCC			
6162	T	C	A	TGCCCACTCACCACTACTAGGGTCCTGTGGGGTGCGGGGGTCCC			
				TCCCCAGCTCCACGTCGTCCTTTTCACCTCTTTTCCTCGGGACCCCCGCACCCCACAGGA[TC]CCTAGTAGTGGTGAGTGGGCAATGAGAGAGGGCAACTTGGG			
6162	IS	[TC]		AGAGGTGAGTTGGCAGGGG	ctg15907	6	
6163	I		A	TGTCGATCCTCCTCGCGCACCCCT			
6163	P	A	A	CGCGCCGAGGAAGTCTCGGGCCG			
6163	P	G	A	ATGACGTGGCAGACGAGTCTCGGGCCG			
6163	T	A	A	GCGACGGCCCGAGACTTGGGGTGCGCGAGGAGGATCGACAGA			
6163	T	G	A	GCGACGGCCCGAGACTCGGGGTGCGCGAGGAGGATCGACAGA			
				TCTGCCACTCCCGCCCTCCTAGGTCCCCTCACCACTCTGTCGATCCTCCTCGCGCACCCC[AG]AGTCTCGGGCCGTCGCTTAATCGGAGCCAAAGTCTCGCATTG			
6163	IS	[AG]		GCTCCTGGAGATTGAGGG	ctg15907	6	
6164	I		A	AGCCGGTCTCCTCCAGCCCCTCA			
6164	P	T	A	CGCGCCGAGGTCAAGTCTCAGAAACCCA			
6164	P	C	A	ATGACGTGGCAGACCCAAGTCTCAGAAACCC			
6164	T	T	A	TCCTTGGGTTTCTGAGACTTGAGAGGGGCTGGAGGAGACCGGCTGA			
6164	T	C	A	TCCTTGGGTTTCTGAGACTTGGGAGGGGCTGGAGGAGACCGGCTGA			

FIGURE 129B

				GAAGAGGCTGGGATCCAGTATACCCCAGACTGCATTTCAGCCGGTCTCCTCCAGCCCCTC[TC]CAAGTCTCAGAAACCCAAGGACAAGCTGTCTGACCCCTAACC			
6164	IS	[TC]		TTGCTCTCCCCTGCTATC	ctg15907	6	
6180	I		S	GAGTGTCTGGCCCCAGAGCCCCTTTATC			
6180	P	A	S	CGCGCCGAGGTCATTCCAACCATCCTG			
6180	P	T	S	ATGACGTGGCAGACACATTCCAACCATCCTG			
6180	T	A	S	TATGCAGGATGGTTGGAATGAATAAAGGGGCTCTGGGGCCAGACACTCTG			
6180	T	T	S	TATGCAGGATGGTTGGAATGTATAAAGGGGCTCTGGGGCCAGACACTCTG			
				TGGCAGTCAGGGGAATGTGCGTCCACTTCCAAACACAGTGTATGCAGGATGGTTGGAATG[AT]ATAAAGGGGCTCTGGGGCCAGACACTCTGGAGTGGATTTGT			
6180	IS	[AT]		GGCTCTGTGTGATCTAGGC	ctg25099	7	
6190	I		A	AGCTTAAGGAAACCTTTGCTTGCTAAGACCTTGGTTAATTATTGCT			
6190	P	C	A	ATGACGTGGCAGACCGGTGCTGGAAACAG			
6190	P	A	A	CGCGCCGAGGAGGTGCTGGAAACAGA			
6190	T	C	A	ATCATCTGTTTCCAGCACCGGCAATAATTAACCAAGGTCTTAGCAAGCAAAGGTTTCCTTAAGCTGT			
6190	T	A	A	ATCATCTGTTTCCAGCACCTGCAATAATTAACCAAGGTCTTAGCAAGCAAAGGTTTCCTTAAGCTGT			
				ACCATTGGTTTCTACAGCTTAAGGAAACCTTTGCTTGCTAAGACCTTGGTTAATTATTGC[CA]GGTGCTGGAAACAGATGATATGCTTAAAGGAAAAACAAAAGTGT			
6190	IS	[CA]		AAACACAGGGATGCAC	ctg19247	7	
6206	I		A	TGTAGTTTGGGGGATGCCCCCCACCT			
6206	P	G	A	ATGACGTGGCAGACGTGGTCAGGTTGATGGY			
6206	P	A	A	CGCGCCGAGGATGGTCAGGTTGATGGCY			
6206	T	G	A	AGGTGCCATCAACCTGACCACGGTGGGGGGCATCCCCCAAACTACAGT			
6206	T	A	A	AGGTGCCATCAACCTGACCATGGTGGGGGGCATCCCCCAAACTACAGT			
				TGTGGTCTAGGCCATGAGGGGGGTCCTCATCACACTGTAGTTTGGGGGATGCCCCCCACC[GA]TGGTCAGGTTGATGGCACCTTAACCCATTCTCTCCTGATGC			
6206	IS	[GA]		GTGAGTTGGAGGAGGCGCG	MULTIPLE	12	
6328	I		A	CCTCCTCTCAGTACTAACAGTCTGTCAGCCTTTTATTTTTTGCATAGATAA			
6328	P	T	A	CGCGCCGAGGTGTATTTTCTCTTCTTTATTGTCTG			
6328	P	C	A	ATGACGTGGCAGACCGTATTTTCTCTTCTTTATTGTCT			
6328	T	T	A	AAGACAGACAATAAAGAAGAGAAAATACATATCTATGCAAAAAATAAAAGGCTGACAGACTGTTAGTACTGAGAGGAGGGC			
6328	T	C	A	AAGACAGACAATAAAGAAGAGAAAATACGTATCTATGCAAAAAATAAAAGGCTGACAGACTGTTAGTACTGAGAGGAGGGC			
				TGGACTTGGCCCTCCTCTCAGTACTAACAGTCTGTCAGCCTTTTATTTTTTGCATAGATA[TC]GTATTTTCTCTTCTTTATTGTCTGTCTTTCCACAAAAAATGCAAG			
6328	IS	[TC]		CCCCGTGAGTACTGG	ctg15064	7	
6342	I		S	GCATCATAAAACCAGGACGACGGCCCCA			
6342	P	G	S	ATGACGTGGCAGACCCTGGCTTCCCGGY			
6342	P	A	S	CGCGCCGAGGTCTGGCTTCCCGGY			
6342	T	G	S	CATACCGGGAAGCCAGGGGGGCCGTCGTCCTGGTTTTATGATGCGG			
6342	T	A	S	CATACCGGGAAGCCAGAGGGGCCGTCGTCCTGGTTTTATGATGCGG			
				TGATTGCTTTCATCCTGTGCTTTGAAACAGGGAAAATGCGTAGACATACCGGGAAGCCAG[GA]GGGGCCGTCGTCCTGGTTTTATGATGCGGGCAGGAGGAAGTT			
6342	IS	[GA]		ATCAAGGGCCGTCCCTGA	ctg14033	7	
6351	I		A	CCACGAAGCTAAGGTCAAAACGCTGGACATCTGT			
6351	P	A	A	CGCGCCGAGGAATAGCTTGGTTCTAGCATTATY			
6351	P	G	A	ATGACGTGGCAGACGATAGCTTGGTTCTAGCATTAY			
6351	T	A	A	ATAGATAATGCTAGAACCAAGCTATTCAGATGTCCAGCGTTTTGACCTTAGCTTCGTGGAA			
6351	T	G	A	ATAGATAATGCTAGAACCAAGCTATCCAGATGTCCAGCGTTTTGACCTTAGCTTCGTGGAA			
				TGCTAACCTGAAGCTCTATTTGATTTTCCACGAAGCTAAGGTCAAAACGCTGGACATCTG[AG]ATAGCTTGGTTCTAGCATTATCTATCTTAGGATAAACTGAACAA			
6351	IS	[AG]		AGTGGCCAAAAGAAGT	ctg13010	2	
6365	I		S	CATGAAATGGCAGCAATATGTCAACCTAATCAGCCTGTA			
6365	P	G	S	ATGACGTGGCAGACCGGCATCACCCAGCY			
6365	P	A	S	CGCGCCGAGGTGGCATCACCCAGCY			
6365	T	G	S	GGCAGCTGGGTGATGCCGACAGGCTGATTAGGTTGACATATTGCTGCCATTTCATGCT			
6365	T	A	S	GGCAGCTGGGTGATGCCAACAGGCTGATTAGGTTGACATATTGCTGCCATTTCATGCT			
				CGTTGTCATTTTTAGAGTGAGATCATGTTTGGTCGCAAAGCCAGGCAGCTGGGTGATGCC[GA]ACAGGCTGATTAGGTTGACATATTGCTGCCATTTCATGCTATT			
6365	IS	[GA]		CATTTGGTTTCCTGGGA	ctg15684	5	
6409	I		A	GATGAGCATCCCAGGATCGCAAGAGCCAA			
6409	P	T	A	CGCGCCGAGGTGTAGAAGCTGCATCTTGY			
6409	P	C	A	ATGACGTGGCAGACCGTAGAAGCTGCATCTTGY			
6409	T	T	A	TAAACAAGATGCAGCTTCTACATGGCTCTTGCGATCCTGGGATGCTCATCCT			
6409	T	C	A	TAAACAAGATGCAGCTTCTACGTGGCTCTTGCGATCCTGGGATGCTCATCCT			
				GCCTCCTCACAACATGGTGTCTGGATTCCCAGGATGAGCATCCCAGGATCGCAAGAGCCA[TC]GTAGAAGCTGCATCTTGTTTATACCTTTGCCTTGGAAGTTGCA			
6409	IS	[TC]		TGGCATCACCTCCACCA			
6415	I		S	GGACCCTTCTAGAGAGAGAGTTTCAAATTTGAATTCCTGTTCCATTCAATATT			
6415	P	C	S	ATGACGTGGCAGACGCTTTACAGCATCGGTATY			
6415	P	T	S	CGCGCCGAGGACTTTACAGCATCGGTATTGY			
6415	T	C	S	CCTCCAATACCGATGCTGTAAAGCATATTGAATGGAACAGGAATTCAAATTTGAAACTCTCTCTCTAGAAGGGTCCAT			
6415	T	T	S	CCTCCAATACCGATGCTGTAAAGTATATTGAATGGAACAGGAATTCAAATTTGAAACTCTCTCTCTAGAAGGGTCCAT			
				TGTTCATAATTTCAGCTGGATATTCTTAATAGGATTTCCTCCAATACCGATGCTGTAAAG[CT]ATATTGAATGGAACAGGAATTCAAATTTGAAACTCTCTCTCTAGA			
6415	IS	[CT]		AGGGTCCATGTGGGA	ctg15907	6	
6460	I		A	GCAGCAGTGCCCACGAAGTCCCCT			
6460	P	A	A	CGCGCCGAGGACCATCCACCACCAGY			
6460	P	G	A	ATGACGTGGCAGACGCCATCCACCACCAY			
6460	T	A	A	AATTCTGGTGGTGGATGGTGGGGACTTCGTGGGCACTGCTGCCC			
6460	T	G	A	AATTCTGGTGGTGGATGGCGGGGACTTCGTGGGCACTGCTGCCC			
				AAGCCAGCGCAGGGGGCCGCGGGGCTGTACCAGATGGGCAGCAGTGCCCACGAAGTCCCC[AG]CCATCCACCACCAGAATTGAGTTGTCAGGTAGCGTTTCCT			
6460	IS	[AG]		CCACCAGCTGCAGCACCTGC			
6461	I		S	GGCTGGGTATCCACGGGGGGCC			
6461	P	T	S	CGCGCCGAGGAGCAGGAGCCCATCY			
6461	P	A	S	ATGACGTGGCAGACTGCAGGAGCCCATCY			
6461	T	T	S	CTGTGATGGGCTCCTGCTGCCCCCCGTGGATACCCAGCCTG			
6461	T	A	S	CTGTGATGGGCTCCTGCAGCCCCCCGTGGATACCCAGCCTG			
				ACCACGAGGCCCGGGCCAACCTGAGACTGACCCTGTCAAGTGCCTGTGATGGGCTCCTGC[TA]GCCCCCCGTGGATACCCAGCCTGGCGTCACCGTCCCTGCA			
6461	IS	[TA]		GTGAGCTTCCCAGCCCCTAG	ctg16920	19	
6485	I		S	CTCCTCAAGCGCTCGGCATGCCTT			
6485	P	C	S	ATGACGTGGCAGACGCCACTGACTCTGAAGAY			
6485	P	G	S	CGCGCCGAGGCCCACTGACTCTGAAGAY			
6485	T	C	S	CCACTCTTCAGAGTCAGTGGCAGGCATGCCGAGCGCTTGAGGAGAG			
6485	T	G	S	CCACTCTTCAGAGTCAGTGGGAGGCATGCCGAGCGCTTGAGGAGAG			
				TTCATCCACACCCCCGGACCCGAGCTGCAGAGAGCACTGGCCACTCTTCAGAGTCAGTGG[CG]AGGCATGCCGAGCGCTTGAGGAGAGTCCAGCAGGGGCCAG			
6485	IS	[CG]		GAAGAAGCGAGCAGCAGGGC	ctg22fin4	22	GIII-SPLA2
6493	I		S	TGTTGTGGGGTGTATATGTGTGTGTGCATGTAATTATCCTACTTGC			
6493	P	C	S	ATGACGTGGCAGACGCTAACCAGCACAAGATT			
6493	P	A	S	CGCGCCGAGGTCTAACCAGCACAAGATTAAC			
6493	T	C	S	AATTGTTAATCTTGTGCTGGTTAGCCAAGTAGGATAATTACATGCACACACACATATACACCCCACAACACA			
6493	T	A	S	AATTGTTAATCTTGTGCTGGTTAGACAAGTAGGATAATTACATGCACACACACATATACACCCCACAACACA			
				AAGGAAGCCCATTTGCTTGGTGAAATAATCCTTTGTAATTGTTAATCTTGTGCTGGTTAG[CA]CAAGTAGGATAATTACATGCACACACACATATACACCCCACAACA			
6493	IS	[CA]		CACACAACAGAACAC			
6494	I		S	AGAGGTTCAGGTCCCTGGTGGCACCA			
6494	P	G	S	ATGACGTGGCAGACCGCCCAAACTCCAG			
6494	P	A	S	CGCGCCGAGGTGCCCAAACTCCAGG			
6494	T	G	S	TTTGCCTGGAGTTTGGGCGGGTGCCACCAGGGACCTGAACCTCTGC			
6494	T	A	S	TTTGCCTGGAGTTTGGGCAGGTGCCACCAGGGACCTGAACCTCTGC			

FIGURE 129B

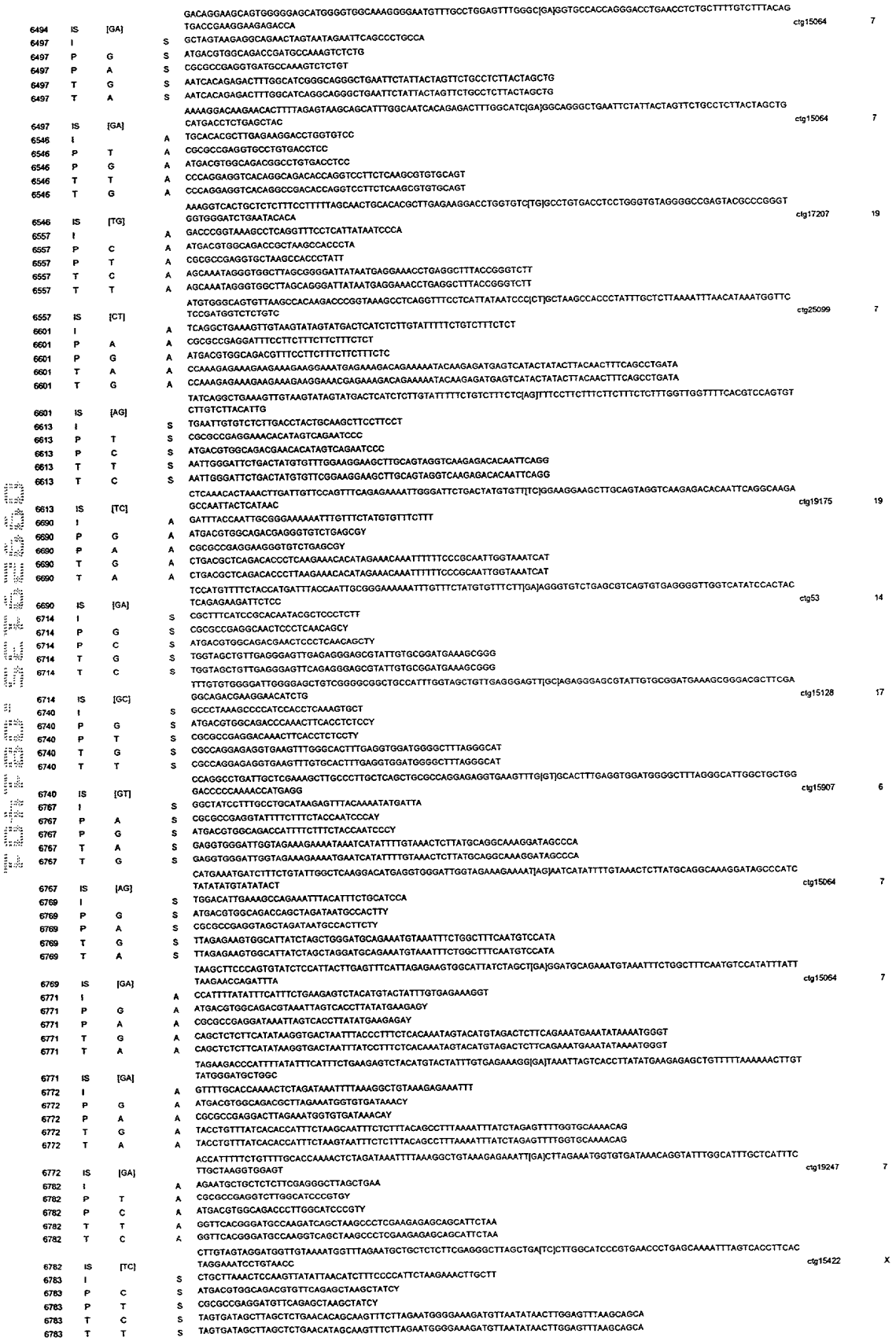


FIGURE 129B

				AGTAAGATTGCTGAAATCAAAAAGTATTTGAGCTTGATAGTGATAGCTTAGCTCTGAACA[CT]AGCAAGTTTCTTAGAATGGGGAAAGATGTTAATATAACTTGGAG			
6783	IS	[CT]		TTTAAGCAGCATCAAA	ctg15422	X	
6784	I		S	GAGATTCTTCCCATGCTTTCTGATGCCGCTGAT			
6784	P	T	S	CGCGCCGAGGAGTTCTTCAGGCTCTTCTAY			
6784	P	G	S	ATGACGTGGCAGACCGTTCTTCAGGCTCTTCY			
6784	T	T	S	CGGATAGAAGAGCCTGAAGAACTTCAGCGGCATCAGAAAGCATGGGAAGAATCTCCA			
6784	T	G	S	CGGATAGAAGAGCCTGAAGAACGTCAGCGGCATCAGAAAGCATGGGAAGAATCTCCA			
				ACTGAAGGTATTCTTGCTGCACTTCCTTCTGGAGGGTTCGGATAGAAGAGCCTGAAGAAC[TG]TCAGCGGCATCAGAAAGCATGGGAAGAATCTCCAGGTTTTTC			
6784	IS	[TG]		GTTTTGTCCAGCCCTTCG	ctg13715	13	
6817	I		A	CCAAAGCCAAGAAACTGTCTCCAAACTGATTGGACAAGTT			
6817	P	A	A	CGCGCCGAGGAGCTGACTAGTTCTCTTCTY			
6817	P	G	A	ATGACGTGGCAGACGGCTGACTAGTTCTCTTCTY			
6817	T	A	A	GGGGAGAAGAGAACTAGTCAGCTACTTGTCCAATCAGTTTGGAGACAGTTTCTTGGCTTTGGGG			
6817	T	G	A	GGGGAGAAGAGAACTAGTCAGCCACTTGTCCAATCAGTTTGGAGACAGTTTCTTGGCTTTGGGG			
				GATTGCAGGTAGGGTCAGGCCCCAAAGCCAAGAAACTGTCTCCAAACTGATTGGACAAGT[AG]GCTGACTAGTTCTCTTCTCCCCCAAATCCCAAGGTGCTCCAG			
6817	IS	[AG]		TCCCCAGCTCACTCAGCC	ctg15804	2	
6818	I		A	CTGATTGGACAAGTGGCTGACTAGTTCTCTTCTCCCT			
6818	P	C	A	CGCGCCGAGGCCAAATCCCAAGGTGCY			
6818	P	G	A	ATGACGTGGCAGACGCAAATCCCAAGGTGCY			
6818	T	C	A	TGGAGCACCTTGGGATTTGGGGGAGAAGAGAACTAGTCAGCCACTTGTCCAATCAGTT			
6818	T	G	A	TGGAGCACCTTGGGATTTGCGGGAGAAGAGAACTAGTCAGCCACTTGTCCAATCAGTT			
				CAAAGCCAAGAAACTGTCTCCAAACTGATTGGACAAGTGGCTGACTAGTTCTCTTCTCCC[CG]CAAATCCCAAGGTGCTCCAGTCCCCAGCTCACTCAGCCACATA			
6818	IS	[CG]		CACCATGTGTGAAGAGG	ctg15804	2	
6822	I		A	CATTAGGATCTCCCCACACCGGAACCCCT			
6822	P	G	A	ATGACGTGGCAGACGCTGCTGCTTCCGAY			
6822	P	A	A	CGCGCCGAGGACTGCTGCTTCCGAY			
6822	T	G	A	AGACTCGGAAGCAGCAGCGGGGTTCCGGTGTGGGGAGATCCTAATGAA			
6822	T	A	A	AGACTCGGAAGCAGCAGTGGGGTTCCGGTGTGGGGAGATCCTAATGAA			
				TCTAGTAGCCCTACGTATCCGGACCTGCCCTTCATTAGGATCTCCCCACACCGGAACCCC[GA]CTGCTGCTTCCGAGTCTCCCTTCAGCCCTCCACATCCCTACAT			
6822	IS	[GA]		TAATCCCTACATGGACT	ctg15064	7	GLI3
6824	I		S	CCTGGGACTCGTGTCTTCCTCACCGCA			
6824	P	G	S	ATGACGTGGCAGACCGCTGCCGCCCY			
6824	P	A	S	CGCGCCGAGGTGCTGCCGCCCY			
6824	T	G	S	CAGGGGGCGGCAGCGGCGGTGAGGAAGACACGAGTCCCAGGGA			
6824	T	A	S	CAGGGGGCGGCAGCAGCGGTGAGGAAGACACGAGTCCCAGGGA			
				ATTATATTTTACTTTTCCCCTTCCCACCCCTGCCCTTTGCATCCAACAGGGGGCGGCAGC[GA]GCGGTGAGGAAGACACGAGTCCCAGGGAGTCCTAGGAGCGC			
6824	IS	[GA]		GCAGTGGGTGGGGCTGGAC	ctg15804	2	
6834	I		A	GGCACACATGTCGCCAGCAGCCATT			
6834	P	G	A	ATGACGTGGCAGACGGATCGTTTCTGTAGCTCY			
6834	P	A	A	CGCGCCGAGGAGATCGTTTCTGTAGCTCTY			
6834	T	G	A	CCTGAGAGCTACAGAAACGATCCATGGCTGCTGGCGACATGTGTGCCCT			
6834	T	A	A	CCTGAGAGCTACAGAAACGATCTATGGCTGCTGGCGACATGTGTGCCCT			
				TCTGATCCTGGCCCGATGGTGCTGGTCGAGGGCCAGGGCACACATGTCGCCAGCAGCCAT[GA]GATCGTTTCTGTAGCTCTCAGGTCACTAGGACACGCTGGAG			
6834	IS	[GA]		CAGGGGCTGGTGACAAGTC	ctg30	7	
6835	I		S	GCCTGCTAATTTCGCAGGGGACACTGCT			
6835	P	T	S	CGCGCCGAGGAGTCACACATTTGGCATTY			
6835	P	C	S	ATGACGTGGCAGACGGTCACACATTTGGCATY			
6835	T	T	S	GCCAAATGCCAAATGTGTGACCGCAGTGTCCCCTGCGAAATTAGCAGGCAG			
6835	T	C	S	GCCAAATGCCAAATGTGTGACCGCAGTGTCCCCTGCGAAATTAGCAGGCAG			
				CTGGGGATGCTTATGTGCAATTGAATGAAGACCGCTGCTGCCAAATGCCAAATGTGTGAC[TC]GCAGTGTCCCCTGCGAAATTAGCAGGCAGTCTCTGGGTTCCC			
6835	IS	[TC]		CTCGACTCTCCTGTTTCT	ctg30	7	
6845	I		A	GGTCTCTGGGAACGTGGGATCTGAGCTCTA			
6845	P	C	A	ATGACGTGGCAGACCGACCTTCACAGACGGY			
6845	P	T	A	CGCGCCGAGGTGACCTTCACAGACGGY			
6845	T	C	A	AATACCGTCTGTGAAGGTCGAGAGCTCAGATCCCACGTTCCCAGAGACCCA			
6845	T	T	A	AATACCGTCTGTGAAGGTCAAGAGCTCAGATCCCACGTTCCCAGAGACCCA			
				GCGCCGTTGAACATGTGATCAGATGTTTGTGGGTCTCTGGGAACGTGGGATCTGAGCTCT[CT]GACCTTCACAGACGGTATTGTTTGGGCCATTGGGGGACCCC			
6845	IS	[CT]		GGAATCGGTTGCCAGCCCG	MULTIPLE	19	
6869	I		S	GCCCTATCTGGGAGCAAGTGAGGGGAGAACT			
6869	P	T	S	CGCGCCGAGGAGAGAACAGGAACCAGGY			
6869	P	C	S	ATGACGTGGCAGACGGAGAACAGGAACCAGGY			
6869	T	T	S	GAATCCTGGTTCCTGTTCTCTGTTCTCCCCTCACTTGCTCCCAGATAGGGCTG			
6869	T	C	S	GAATCCTGGTTCCTGTTCTCCGTTCTCCCCTCACTTGCTCCCAGATAGGGCTG			
				CATTCCATTTACACTACCTCCTACCCTGGGTCAGACACTCGAATCCTGGTTCCTGTTCTC[TC]GTTCTCCCCTCACTTGCTCCCAGATAGGGCTGTTGTTATTCTGG			
6869	IS	[TC]		TCCCAGCATAATTTGC	ctg14243	19	
6871	I		S	GGCGACGGCTCCACGATGCCAT			
6871	P	C	S	ATGACGTGGCAGACGTGTCTGACCTAGCCTY			
6871	P	T	S	CGCGCCGAGGATGTCTGACCTAGCCTGY			
6871	T	C	S	GGATCAGGCTAGGTCAGACACTGGCATCGTGGAGCCGTCGCCTC			
6871	T	T	S	GGATCAGGCTAGGTCAGACATTGGCATCGTGGAGCCGTCGCCTC			
				GGGCGGTGGCCAGCCGGCAGGGGTGTCGGGGCAAGGAGGCGGATCAGGCTAGGTCAGACA[CT]TGGCATCGTGGAGCCGTCGCCTCCTCCCAGGGAATGGGG			
6871	IS	[CT]		AGCCTGGAACCCATTTTCCAG	ctg16564	19	
6885	I		S	GGCTGTGTGTGGGCCCCTGCCT			
6885	P	G	S	CGCGCCGAGGCTGGTCTTTTCCCCCCY			
6885	P	C	S	ATGACGTGGCAGACGTGGTCTTTTCCCCCY			
6885	T	G	S	GGGTGGGGGGAAAAGACCAGGGCAGGGGCCCACACACAGCCTG			
6885	T	C	S	GGGTGGGGGGAAAAGACCACGGCAGGGGCCCACACACAGCCTG			
				GGGATGGCGGGCCATGACCAAAGCCATGGAGATAGGGTGTGGGGTGGGGGGAAAAGACCA[GC]GGCAGGGGCCCACACACAGCCTGGAGTCTGGGCTGTGAG			
6885	IS	[GC]		TCTTTTCATCTTTTCTCAAGG	ctg14007	17	
6901	I		A	CCTACGACATCCTCAAGGAGAAGCTGCTGGACTAA			
6901	P	T	A	CGCGCCGAGGTCACCTGCTCACTGGY			
6901	P	C	A	ATGACGTGGCAGACCCACCTGCTCACTGGY			
6901	T	T	A	CTCACCAGTGAGCAGGTGATAGTCCAGCAGCTTCTCCTTGAGGATGTCGTAGGTC			
6901	T	C	A	CTCACCAGTGAGCAGGTGGTAGTCCAGCAGCTTCTCCTTGAGGATGTCGTAGGTC			
				TATCGTCAACTGTGCTGAGGTGGTGACCTACGACATCCTCAAGGAGAAGCTGCTGGACTA[TC]CACCTGCTCACTGGTGAGGCCCTGGGCTCCAGGCAGGCAGC			
6901	IS	[TC]		TCTCCCTCAGCAGGGAGGG	ctg12475	11	
6902	I		A	CCCAGGCCAGGACCTTGGGAGATAGTT			
6902	P	C	A	CGCGCCGAGGCGCCTAACAACGGTGY			
6902	P	G	A	ATGACGTGGCAGACGGCCTAACAACGGTGY			
6902	T	C	A	ACTCCACCGTTGTTAGGCGACTATCTCCCAAGGTCCTGGCCTGGGGT			
6902	T	G	A	ACTCCACCGTTGTTAGGCCACTATCTCCCAAGGTCCTGGCCTGGGGT			
				CCTAAGTGGCAGCCCTGTGGGATGGATGAGCGACCCCAGGCCAGGACCTTGGGAGATAGT[CG]GCCTAACAACGGTGGAGTCAATGTGAGAGATGACACGTGAC			
6902	IS	[CG]		CTCCACTAGAGTGAGGCCT	ctg14145	11	
6903	I		A	GTGGGGGCATCCTGTGCATTGTAGATGCTTAATAGT			
6903	P	C	A	CGCGCCGAGGCATCCCTGGTCTCTACTCY			
6903	P	G	A	ATGACGTGGCAGACGATCCCTGGTCTCTACTCY			
6903	T	C	A	GAATGAGTAGAGACCAGGGATGCTATTAAGCATCTACAATGCACAGGATGCCCCCACCC			
6903	T	G	A	GAATGAGTAGAGACCAGGGATCCTATTAAGCATCTACAATGCACAGGATGCCCCCACCC			

FIGURE 129B

				TGGATAATTCTTCATATGATCAAGGGTGGGGGCATCCTGTGCATTGTAGATGCTTAATAG[CG]ATCCCTGGTCTCTACTCATTCGATACCAGGAGCAACTCACCAC			
6903	IS	[CG]		CCCACTCCTCACCCTAA	ctg15064	7	
4048	I		S	TCTTACTACTATACATAAACTGTGAGACTGGGTTAGGAAAGAGACAGAGGTAAA			
4048	P	A	S	CGCGCCGAGGTGACAGACACGATGGAAG			
4048	P	G	S	CGCGCCGAGGCGACAGACACGATGGAAG			
4048	T	A	S	GGGGCTTCCATCGTGTCTGTCATTACCTCTGTCTCTTTCCTAACCCAGTCTCACAGTTTATGTATAGTAGTAAGAGT			
4048	T	G	S	GGGGCTTCCATCGTGTCTGTCGTTACCTCTGTCTCTTTCCTAACCCAGTCTCACAGTTTATGTATAGTAGTAAGAGT			
				CCCACATCTCCTCTTTGTTTGCCATGGGATGATGTGGGGCTTCCATCGTGTCTGTC[AG]TTACCTCTGTCTCTTTCCTAACCCAGTCTCACAGTTTATGTATAGTAG			
4048	IS	[AG]		TAAGAGTTGTACTTCCACCAAAGGCATGTGACATATTACTGGCCG			
4054	I		S	AGGTGGGATGTGTTCATTGGACAATATACATTGCCGAA			
4054	P	A	S	CGCGCCGAGGTTGCTGAATATGAATGGAATCGA			
4054	P	G	S	CGCGCCGAGGCTGCTGAATATGAATGGAATCGA			
4054	T	A	S	TCCTTCGATTCCATTCATATTCAGCAATCGGCAATGTATATTGTCCAATGAACACATCCCACCTTA			
4054	T	G	S	TCCTTCGATTCCATTCATATTCAGCAGTCGGCAATGTATATTGTCCAATGAACACATCCCACCTTA			
				ACGGCCAGTCTGTTCACCATAGGTGGAAAGGCTCATTTTAAAAAGGGTCCCACTTCCTTCGATTCCATTCATATTCAGCA[AG]TCGGCAATGTATATTGTCCAATGA			
4054	IS	[AG]		ACACATCCCACCTTAAGAGCACACACTAGCTCATTAAACTGTCCT			
6944	I		A	GTGGGATAGTCTTGGTCTTCGTCATTTGTTTCTGTC			
6944	P	A	A	CGCGCCGAGGACATGGTCACCTGCTCA			
6944	P	G	A	CGCGCCGAGGGCATGGTCACCTGCTC			
6944	T	A	A	TAAGTGAGCAGGTGACCATGTGACAGAAACAAATGACGAAGACCAAGACTATCCCACCA			
6944	T	G	A	TAAGTGAGCAGGTGACCATGCGACAGAAACAAATGACGAAGACCAAGACTATCCCACCA			
				TAATTTAATATCTGGTGGGATAGTCTTGGTCTTCGTCATTTGTTTCTGTC[AG]CATGGTCACCTGCTCACTTACAGTTAGGGGAAAGCTTACAGGGAGTCATG	ctg22fin4	22	
6944	IS	[AG]		GGGAGGAGACTCTTCCACCAGGAGGCAATTCT			
6952	I		A	CGCGCCGAGGGTGAGGGCTTACCTGCT			
6952	P	G	A	CGCGCCGAGGCTGAGGGCTTACCTGCT			
6952	P	C	A	AGAAAGCAGGTAAGCCCTCACGAATTGCCTCCTGGTGGAAGAGTCTCCTCCCCA			
6952	T	G	A	AGAAAGCAGGTAAGCCCTCAGGAATTGCCTCCTGGTGGAAGAGTCTCCTCCCCA			
6952	T	C	A	AACGCTCCTGAAGGGCTTGGGGAGGAGACTCTTCCACCAGGAGGCAATTC[GC]TGAGGGCTTACCTGCTTTCTAGGATGGGAAGGAGGCAGATCTGGTTCAGG	ctg22fin4	22	
6957	I		S	CCGGATTGTCCTCCCCCAAAATAAAGACAGAGATCATCCT			
6957	P	C	S	CGCGCCGAGGGTGTTTCTTCTCCTGTACGC			
6957	P	G	S	CGCGCCGAGGCTGTTTCTTCTCCTGTACGC			
6957	T	C	S	GTTCGCGTACAGGAGAAGAAACACGGATGATCTCTGTCTTTATTTTGGGGGAGGACAATCCGGCC			
6957	T	G	S	GTTCGCGTACAGGAGAAGAAACAGGGATGATCTCTGTCTTTATTTTGGGGGAGGACAATCCGGCC			
				TTGGTTCGATTTTGGAGCATCCACCAGGTTCGCGTACAGGAGAAGAAACA[CG]GGATGATCTCTGTCTTTATTTTGGGGGAGGACAATCCGGCCTTCTTGGGA	ctg22fin4	22	MGC15705
6957	IS	[CG]		GCTTACAAAGGCATTCCAGCTGTGGGGGTCAA			
6958	I		A	CGCGCCGAGGTAGAATATTGGGAAAGCCCTG			
6958	P	T	A	CGCGCCGAGGCAGAATATTGGGAAAGCCCT			
6958	P	C	A	TTCTCAGGGCTTTCCCAATATTCTATGACCCCCACAGCTGGAATGCCTTTGTAAGCTC			
6958	T	T	A	TTCTCAGGGCTTTCCCAATATTCTGTGACCCCCACAGCTGGAATGCCTTTGTAAGCTC			
6958	T	C	A	CATCCCTTCCTCAGCTGGAGCTTACAAAGGCATTCCAGCTGTGGGGGTCA[TC]AGAATATTGGGAAAGCCCTGAGAAGAGCTGAATCCGTTGGCTTTCAAGCT	ctg22fin4	22	
6964	I		A	CATGCAAACCTTTTCAGAAGCAAAATGAGCCTAGTCCAAGAT			
6964	P	G	A	CGCGCCGAGGGTCGAGTCCAAGATGTAACTTC			
6964	P	A	A	CGCGCCGAGGATCGAGTCCAAGATGTAACTTC			
6964	T	G	A	GCAGGAAGTTACATCTTGGACTCGACTCTTGGACTAGGCTCATTTTGCTTCTGAAAAGGTTTGCATGCG			
6964	T	A	A	GCAGGAAGTTACATCTTGGACTCGATTCTTGGACTAGGCTCATTTTGCTTCTGAAAAGGTTTGCATGCG			
6964	IS	[GA]		CTCGAGACGCATGCAAACCTTTTCAGAAGCAAAATGAGCCTAGTCCAAGA[GA]TCGAGTCCAAGATGTAACTTCCTGCTTGTCAAAAAGCTACAAGAGGCTGG	ctg22fin4	22	
6966	I		A	CGCACACCAAGCAGCTTGTGGGCCT			
6966	P	A	A	CGCGCCGAGGACAGAGCACCTGAGCCY			
6966	P	G	A	CGCGCCGAGGGCAGAGCACCTGAGCY			
6966	T	A	A	ACACGGCTCAGGTGCTCTGTGGCCCACAAGCTGCTTGGTGTGCGAT			
6966	T	G	A	ACACGGCTCAGGTGCTCTGCGGCCCACAAGCTGCTTGGTGTGCGAT			
6966	IS	[AG]		TGAACCCCAGGCCTCAAACCCTAGATCGCACACCAAGCAGCTTGTGGGCC[AG]CAGAGCACCTGAGCCGTGTCTCACTGTCTGCCCAAGCCCTGATGCATGAT	ctg22fin4	22	
6968	I		S	AGATTGAACAATTAAGTTCTTAAAAACCTGGAAAGATTAACATAAAACTGA			
6968	P	A	S	CGCGCCGAGGTCCCCACCCAAGAATAAATTTAC			
6968	P	G	S	CGCGCCGAGGCCCCCACCCAAGAATAAATT			
6968	T	A	S	AAATGTAAATTTATTCTTGGGTGGGGACAGTTTTATGTTAATCTTTCCAGGTTTTTAAGAACTTAATTGTTCAATCT			
6968	T	G	S	AAATGTAAATTTATTCTTGGGTGGGGGCAGTTTTATGTTAATCTTTCCAGGTTTTTAAGAACTTAATTGTTCAATCT			
6968	IS	[AG]		GTGGTAAAGCAATCTTAAGTTCTTAAATGTAAATTTATTCTTGGGTGGGG[AG]CAGTTTTATGTTAATCTTTCCAGGTTTTTAAGAACTTAATTGTTCAATCT	ctg22fin3	22	
6970	I		S	CTGGAGTAGGGTCTGATACGAACTAGTTGTTTGACCT			
6970	P	T	S	CGCGCCGAGGATGGTAAGGCACCTAACTCG			
6970	P	G	S	CGCGCCGAGGCTGGTAAGGCACCTAACTC			
6970	T	T	S	GAAGCGAGTTAGGTGCCTTACCATGGTCAAACAACTAGTTCGTATCAGACCCTACTCCAGAA			
6970	T	G	S	GAAGCGAGTTAGGTGCCTTACCAGGGTCAAACAACTAGTTCGTATCAGACCCTACTCCAGAA			
6970	IS	[TG]		TTGACAGATGTGACAGATGAAGAAATAGAAGCGAGTTAGGTGCCTTACCA[TG]GGTCAAACAACTAGTTCGTATCAGACCCTACTCCAGAAACTATTCCAGTC	ctg22fin4	22	
6971	I		A	GGCCCCAGCTCCCGAGTTCCTGAATGAAAT			
6971	P	C	A	CGCGCCGAGGCAGTGAAAACACGAACCCA			
6971	P	A	A	CGCGCCGAGGAAGTGAAAACACGAACCCAG			
6971	T	C	A	ACTCCTGGGTTCGTGTTTTCACTGTTTCATTCAGGAACTCGGGAGCTGGGGCCAC			
6971	T	A	A	ACTCCTGGGTTCGTGTTTTCACTTTTTCATTCAGGAACTCGGGAGCTGGGGCCAC			
6971	IS	[CA]		AACCTGAAGGGCCAAGGGAGTGGCCCCAGCTCCCGAGTTCCTGAATGAAA[CA]AGTGAAAACACGAACCCAGGAGTGTGGACCAGTGCTGACGCTGACATGCA	MULTIPLE	22	
6977	I		S	CTCCGTGTCCCTGAACTGTCTTAGAAAATGCCTGTTACCA			
6977	P	A	S	CGCGCCGAGGTGGGCCTAGGGAGGY			
6977	P	G	S	CGCGCCGAGGCGGGCCTAGGGAGGY			
6977	T	A	S	CCTGCCTCCCTAGGCCCAGGTAACAGGCATTTTCTAAGACAGTTCAGGGACACGGAGGC			
6977	T	G	S	CCTGCCTCCCTAGGCCCGGGTAACAGGCATTTTCTAAGACAGTTCAGGGACACGGAGGC			
6977	IS	[AG]		GACGGAATCCCTGGGATGTCCCCAACGCTGGGCCCTGCCTCCCTAGGCCC[AG]GGTAACAGGCATTTTCTAAGACAGTTCAGGGACACGGAGGCACCCCGCTG	ctg22fin4	22	
6983	I		S	GAGGCCCCTGGCAGGCCCCT			
6983	P	T	S	CGCGCCGAGGAGCTTCTGGCTCCAGGY			
6983	P	C	S	CGCGCCGAGGGGCTTCTGGCTCCAGGY			
6983	T	T	S	AACGCCTGGAGCCAGAAGCTGGGGCCTGCCAGGGGCCTCCC			
6983	T	C	S	AACGCCTGGAGCCAGAAGCCGGGGCCTGCCAGGGGCCTCCC			
6983	IS	[TC]		CAAAGCCTGCCTGGGGCTGGGCAGGGAAACCAACGCCTGGAGCCAGAAGC[TC]GGGGCCTGCCAGGGGCCTCCCCGTGCCCACCAAAGGGCAGTGGTTGCAAT	ctg22fin4	22	
6995	I		A	CGGTGGTGAGAGAGCGCCAGGTACGT			
6995	P	G	A	CGCGCCGAGGGCACTTGCTGGGCAC			
6995	P	C	A	CGCGCCGAGGCCACTTGCTGGGCAC			
6995	T	G	A	CACAGTGCCCAGCAAGTGCCGTACCTGGCGCTCTCTCACCACCGGC			
6995	T	C	A	CACAGTGCCCAGCAAGTGGCGTACCTGGCGCTCTCTCACCACCGGC			

FIGURE 129B

6995	IS	[GC]		CGCCATAAGCTAATTAGCTGGGGGCCGGTGGTGAGAGAGCGCCAGGTACG[GC]CACTTGCTGGGCACTGTGCCCTTTCATCAGCCTAACAGCCCAGTGCTCAG	ctg22fin8	22
7029	I		A	CTCTCTCCTGGCAGTAAAGCCTCCCACCTACAA		
7029	P	C	A	CGCGCCGAGGCACTTGGGCATGGCTAC		
7029	P	T	A	CGCGCCGAGGTACTTGGGCATGGCTACC		
7029	T	C	A	TGTGGGTAGCCATGCCCAAGTGTGTAGGTGGGAGGCTTTACTGCCAGGAGAGAGGG		
7029	T	T	A	TGTGGGTAGCCATGCCCAAGTATGTAGGTGGGAGGCTTTACTGCCAGGAGAGAGGG		
7029	IS	[CT]		CAAAATGTGAAAGGGACCCTCTCTCCTGGCAGTAAAGCCTCCCACCTACA[CT]ACTTGGGCATGGCTACCCACATTTCCCCAGAGGAGGAACACCGCTGCTTT	ctg22fin4	22
7050	I		A	TTGGGATGGAGCCTCCCATGGATAGGAACTCTTA		
7050	P	INS	A	CGCGCCGAGGCTCTGGTTGATGCTCAGC		
7050	P	DEL	A	CGCGCCGAGGCCTGGTTGATGCTCAGC		
7050	T	INS	A	CATCTGCTGAGCATCAACCAGAGAAGAGTTCCTATCCATGGGAGGCTCCATCCCAACA		
7050	T	DEL	A	CATCTGCTGAGCATCAACCAGGAAGAGTTCCTATCCATGGGAGGCTCCATCCCAACA		
7050	IS	[-T]		ATCCTCTTCACACCTGTTGGGATGGAGCCTCCCATGGATAGGAACTCTTC[-T]CTGGTTGATGCTCAGCAGATGACTGATCTGGCTCTGGAGGACAGCTCCAG	ctg22fin4	22
7063	I		S	CCTGTGTGTCCCCGTCCCCACCCA		
7063	P	G	S	CGCGCCGAGGCAATACTCCCTTCTGGGATG		
7063	P	A	S	CGCGCCGAGGTAATACTCCCTTCTGGGATGC		
7063	T	G	S	TCATGCATCCCAGAAGGGAGTATTGGGGTGGGGACGGGGACACACAGGGC		
7063	T	A	S	TCATGCATCCCAGAAGGGAGTATTAGGGTGGGGACGGGGACACACAGGGC		
7063	IS	[GA]		CTAGGAAGAACGCAACCTGCCCAAGGTCATGCATCCCAGAAGGGAGTATT[GA]GGGTGGGGACGGGGACACACAGGGCTGTCTGATTGTGATTTCTCGCCTCT	ctg22fin4	22
7086	I		A	GGAATTACCATGCAGCCATTGGCCCATTCAAAAAATAAAAATAAAAAGGTC		
7086	P	T	A	CGCGCCGAGGTATGAAGATTAAGCCAATAAGTCTGAG		
7086	P	G	A	CGCGCCGAGGGATGAAGATTAAGCCAATAAGTCTGA		
7086	T	T	A	TCCTCTCAGACTTATTGGCTTAATCTTCATAACCTTTTTATTTTTATTTTTTGAATGGGCCAATGGCTGCATGGTAATTCC		
7086	T	G	A	TCCTCTCAGACTTATTGGCTTAATCTTCATCACCTTTTTATTTTTATTTTTTGAATGGGCCAATGGCTGCATGGTAATTCC		
7086	IS	[TG]		GGAATTACCATGCAGCCATTGGCCCATTCAAAAAATAAAAATAAAAAGGT[TG]ATGAAGATTAAGCCAATAAGTCTGAGAGGAAGATAAAAATCACAGGGGAT		
7087	I		S	GATCCTACTTTCCCAAGGGTATTTCTGCCCATCCATCAC		
7087	P	A	S	CGCGCCGAGGTCACACTTCCATCTCAACCA		
7087	P	T	S	CGCCCCGAGGACACACTTCCATCTCAACC		
7087	T	A	S	AGTGTGGTTGAGATGGAAGTGTGATGATGGATGGGCAGAAATACCCTTGGGAAAGTAGGATCAT		
7087	T	T	S	AGTGTGGTTGAGATGGAAGTGTGTTGATGGATGGGCAGAAATACCCTTGGGAAAGTAGGATCAT		
7087	IS	[AT]		GAAATAAGTCTGGTACAGCCTTCTCACAGTGTGGTTGAGATGGAAGTGTG[AT]TGATGGATGGGCAGAAATACCCTTGGGAAAGTAGGATCATAGCCAAAGAT	ctg22fin4	22
7116	I		S	ACTCAGCTGTGTGGACTTGCCCACATATGTAAGAGTTGA		
7116	P	A	S	CGCGCCGAGGTCTACTTGTCAGCTACTCTAGG		
7116	P	G	S	CGCGCCGAGGCCTACTTGTCAGCTACTCTAGG		
7116	T	A	S	CCATCCTAGAGTAGCTGACAAGTAGACAACTCTTACATATGTGGGCAAGTCCACACAGCTGAGTCC		
7116	T	G	S	CCATCCTAGAGTAGCTGACAAGTAGGCAACTCTTACATATGTGGGCAAGTCCACACAGCTGAGTCC		
7116	IS	[AG]		GGTTGTTCAGTTACTCCAACCAGAACCATCCTAGAGTAGCTGACAAGTAG[AG]CAACTCTTACATATGTGGGCAAGTCCACACAGCTGAGTCCAGACAGAGTC	ctg22fin4	22
7118	I		A	GCTCTTTTCCCACCAATTTTCCCAACTGATATTCACAACTACCCTAT		
7118	P	A	A	CGCGCCGAGGACAGGTAGGCAGCTTAACT		
7118	P	G	A	CGCGCCGAGGGCAGGTAGGCAGCTTAAC		
7118	T	A	A	GATTAGTTAAGCTGCCTACCTGTTAGGGTAGTTGTGAATATCAGTTGGGAAAATTGGTGGGAAAAGAGCTT		
7118	T	G	A	GATTAGTTAAGCTGCCTACCTGCTAGGGTAGTTGTGAATATCAGTTGGGAAAATTGGTGGGAAAAGAGCTT		
7118	IS	[AG]		CCAAGCTCTTTTCCCACCAATTTTCCCAACTGATATTCACAACTACCCTA[AG]CAGGTAGGCAGCTTAACTAATCTTACACTCATTTTGCAGATGAGAAACAT	ctg22fin4	22
7123	I		S	GGAAGAAACCACCTTGGGGAGAAGGAATGGGGT		
7123	P	C	S	CGCGCCGAGGGTGTGGACGAAGGCCY		
7123	P	G	S	CGCGCCGAGGCTGTGGACGAAGGCCAY		
7123	T	C	S	TGTCTGGCCTTCGTCCACACCCCCATTCCTTCTCCCCAAGGTGGTTTCTTCCTG		
7123	T	G	S	TGTCTGGCCTTCGTCCACAGCCCCATTCCTTCTCCCCAAGGTGGTTTCTTCCTG		
7123	IS	[CG]		TACTGGGGCAGGCTGTGAAAGCTCTCCCCAATGTCTGGCCTTCGTCCACA[CG]CCCCATTCCTTCTCCCCAAGGTGGTTTCTTCCTGGGGGTATCCCCTTTGG	ctg22fin4	22
7125	I		A	AGTGCTGAGATTACAGGTATAAGCCATCGCACCCCT		
7125	P	INS	A	CGCGCCGAGGGGCCTAGAATAGATTCTTAACCC		
7125	P	DEL	A	CGCGCCGAGGGCCTAGAATAGATTCTTAACCCTG		
7125	T	INS	A	CCACCAGGGTTAAGAATCTATTCTAGGCCGGGGTGCGATGGCTTATACCTGTAATCTCAGCACTTT		
7125	T	DEL	A	CCACCAGGGTTAAGAATCTATTCTAGGCGGGGTGCGATGGCTTATACCTGTAATCTCAGCACTTT		
7125	IS	[G-]		CCTTGACCTCCCAAAGTGCTGAGATTACAGGTATAAGCCATCGCACCCCG[G-]CCTAGAATAGATTCTTAACCCTGGTGGTACATCAGAAACAGATTTTTAAG	MULTIPLE	MULTIPLE
4154	I		A	TGCTGCAGAAATGTTGCGTTTGATTATGAGACTACT		
4154	P	C	A	CGCGCCGAGGCCCAACTCCCCAAGGY		
4154	P	G	A	ATGACGTGGCAGACGCCAACTCCCCAAGGY		
4154	T	C	A	ACACCCTTGGGGAGTTGGCGTAGTCTCATAATCAAACGCAACATTTCTGCAGCAAA		
4154	T	G	A	ACACCCTTGGGGAGTTGGCGTAGTCTCATAATCAAACGCAACATTTCTGCAGCAAA		
4154	IS	[CG]		CCAGACCTCAATTGAGACAAGGCTATTTAAGCTTCCTCCCAGTTGGTGTAAATATTCAATAGTTTTGCTGCAGAAATGTTGCGTTTGATTATGAGACTAC[CG]CCAA CTCCCCAAGGGTGTTTTGTGGTGCTGGTTTCTGTATAAACCTGAAAAATTCTGAATTCCAAAACTTATCTGACCCCCAAAGTTTCAGATAAGAGCT	ctg17326	12
4214	I		S	TGCTTGCTGGATGAAGTCCTGTGGGGAGTAAA		
4214	P	A	S	CGCGCCGAGGTGTTTCTGAGTTTGTGGAATY		
4214	P	G	S	ATGACGTGGCAGACCGTTTCTGAGTTTGTGGAY		
4214	T	A	S	GTGGATTCCACAAACTCAGAAACATTACTCCCCACAGGACTTCATCCAGCAAGCAAT		
4214	T	G	S	GTGGATTCCACAAACTCAGAAACGTTACTCCCCACAGGACTTCATCCAGCAAGCAAT		
4214	IS	[AG]		GATGTCAAAGATACCTTTTGGTTCTTTAGTTTTGTGGATCCAACACTAACTGACTTTCAGATTCTAAAACCCACCATGTGGATTCCACAAACTCAGAAAC[AG]TTACT CCCCACAGGACTTCATCCAGCAAGCAATTTCCTATTCCAGTTTTCCATTCTGGATGGGGCTGTCTCGGAGGAACCCCAGCTACCCATGGCTCTGG	ctg14210	12
4229	I		S	GCCGACCTGGGTTCCAACCCTGCT		
4229	P	G	S	ATGACGTGGCAGACCTGCTCCCTGTCCTG		
4229	P	T	S	CGCGCCGAGGATGCTCCCTGTCCTG		
4229	T	G	S	TCAACAGGACAGGGAGCAGGCAGGGTTGGAACCCAGGTCGGCCT		
4229	T	T	S	TCAACAGGACAGGGAGCATGCAGGGTTGGAACCCAGGTCGGCCT		
4229	IS	[GT]		CTAGAACTTGGTATGACTGCTGTTGTTACTGGGAGAACACTATGCAAATGAGGAAAGTGGGGCTGCAAGTGGAATTAGAGCGTCAACAGGACAGGGAGCA[GT]GC AGGGTTGGAACCCAGGTCGGCCTGGTCCCTTATCGTGCTCCTCCGGGCATGGGTGACAGAGGGAGGAAGGAGGGAGAAATGGAGGGAAATGGAAACAG	ctg1565	1
4281	I		S	GGTGGATGTGTCCAGAAAATTAAGGAAGGTGAATGGAAGAACT		
4281	P	C	S	ATGACGTGGCAGACGTTTTATTTCTGGGCACAAC		
4281	P	G	S	CGCGCCGAGGCTTTTATTTCTGGGCACAAC		
4281	T	C	S	GGAAGTTGTGCCCAGAAATAAAAGTTCTTCCATTCACCTTCCTTAATTTTCTGGACACATCCACCCT		
4281	T	G	S	GGAAGTTGTGCCCAGAAATAAAAGGTTCTTCCATTCACCTTCCTTAATTTTCTGGACACATCCACCCT		
4281	IS	[CG]		CTGCACCATCTTGTTTCATGTGGCATTTCCTATGGAAGTCTCCTCTTCAAATACATAAAAAACAGAAAAGAAAATTAGGAAGTTGTGCCCAGAAATAAAA[CG]TTCT TCCATTCACCTTCCTTAATTTTCTGGACACATCCACCCTATTCCTCATATCTTGCCATTAGTTCTCTCTTCTTTTTCCCAGGGAAGAGACATCAT	ctg16537	20
4301	I		A	CCACCTAGCCACCCACCTGATGTTTATTCAACACT		
4301	P	A	A	CGCGCCGAGGATATTATCCACCAGGCCCY		

FIGURE 129B

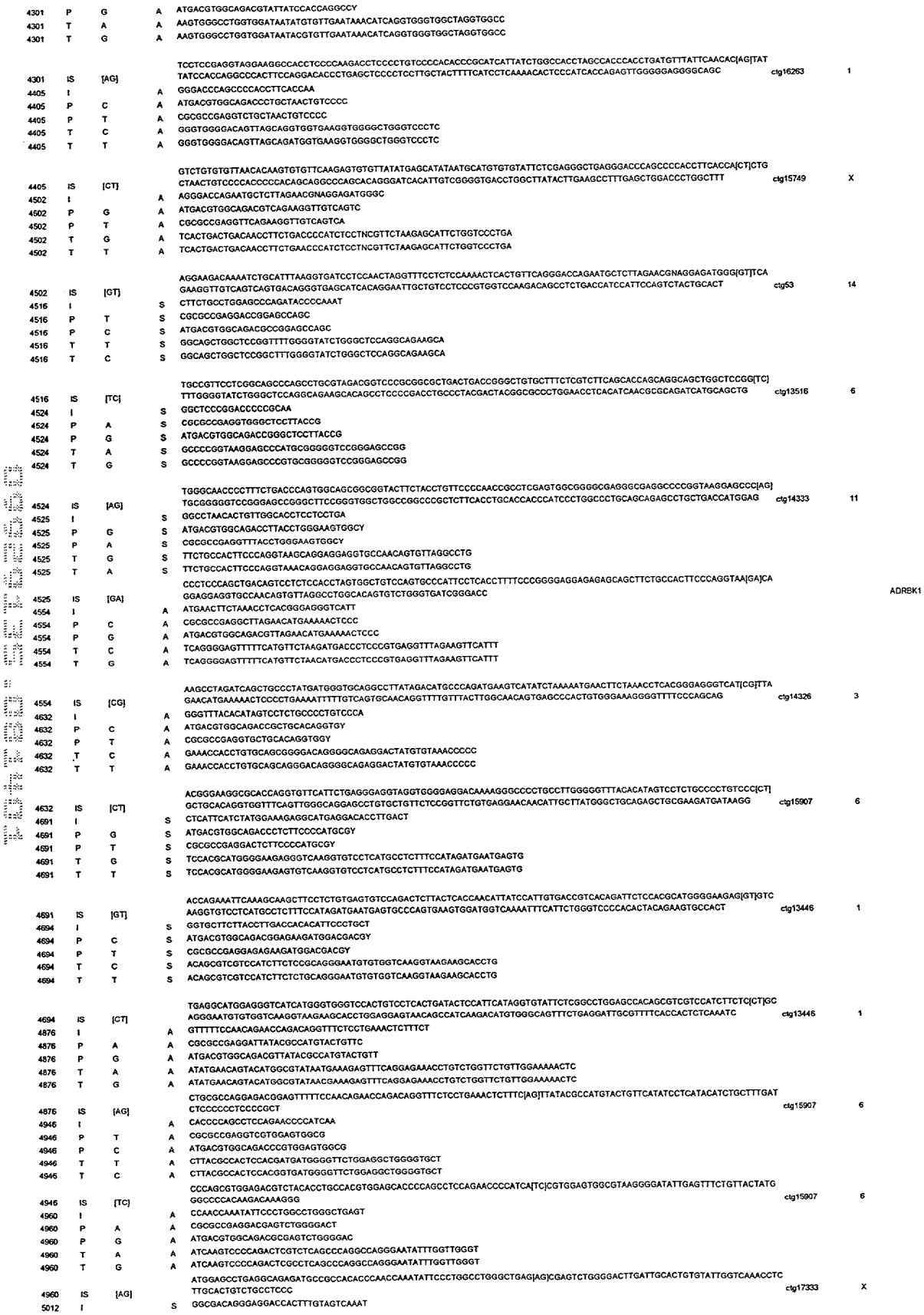

4301 P G A ATGACGTGGCAGACGTATTATCCACCAGGCCY
4301 T A A AAGTGGGCCTGGTGGATAATATGTGTTGAATAAACATCAGGTGGGTGGCTAGGTGGCC
4301 T G A AAGTGGGCCTGGTGGATAATACGTGTTGAATAAACATCAGGTGGGTGGCTAGGTGGCC
TCCTCCGAGGTAGGAAGGCCACCTCCCCAAGACCTCCCCTGTCCCCACACCCGCATCATTATCTGGCCACCTAGCCACCCACCTGATGTTTATTCAACAC[AG]TAT
4301 IS [AG] TATCCACCAGGCCCACTTCCAGGACACCCTGAGCTCCCCTCCTTGCTACTTTTCATCCTCAAAACACTCCCATCACCAGAGTTGGGGGAGGGGCAGC ctg16263 1
4405 I A GGGACCCAGCCCCACCTTCACCAA
4405 P C A ATGACGTGGCAGACCCTGCTAACTGTCCCC
4405 P T A CGCGCCGAGGTCTGCTAACTGTCCCC
4405 T C A GGGTGGGGACAGTTAGCAGGTGGTGAAGGTGGGGCTGGGTCCCTC
4405 T T A GGGTGGGGACAGTTAGCAGATGGTGAAGGTGGGGCTGGGTCCCTC
GTCTGTGTGTTAACACAAGTGTGTTCAAGAGTGTGTTATATGAGCATATAATGCATGTGTGTATTCTCGAGGGCTGAGGGACCCAGCCCCACCTTCACCA[CT]CTG
4405 IS [CT] CTAACTGTCCCCACCCCCACAGCAGGCCCAGCACAGGGATCACATTGTCGGGGTGACCTGGCTTATACTTGAAGCCTTTGAGCTGGACCCTGGCTTT ctg15749 X
4502 I A AGGGACCAGAATGCTCTTAGAACGNAGGAGATGGGC
4502 P G A ATGACGTGGCAGACGTCAGAAGGTTGTCAGTC
4502 P T A CGCGCCGAGGTTCAGAAGGTTGTCAGTCA
4502 T G A TCACTGACTGACAACCTTCTGACCCCATCTCCTNCGTTCTAAGAGCATTCTGGTCCCTGA
4502 T T A TCACTGACTGACAACCTTCTGAACCCATCTCCTNCGTTCTAAGAGCATTCTGGTCCCTGA
AGGAAGACAAAATCTGCATTTAAGGTGATCCTCCAACTAGGTTTCCTCTCCAAAACTCACTGTTCAGGGACCAGAATGCTCTTAGAACGNAGGAGATGGG[GT]TCA
4502 IS [GT] GAAGGTTGTCAGTCAGTGACAGGGTGAGCATCACAGGAATTGCTGTCCTCCCGTGGTCCAAGACAGCCTCTGACCATCCATTCCAGTCTACTGCACT ctg53 14
4516 I S CTTCTGCCTGGAGCCCAGATACCCCAAAT
4516 P T S CGCGCCGAGGACCGGAGCCAGC
4516 P C S ATGACGTGGCAGACGCCGGAGCCAGC
4516 T T S GGCAGCTGGCTCCGGTTTTGGGGTATCTGGGCTCCAGGCAGAAGCA
4516 T C S GGCAGCTGGCTCCGGCTTTGGGGTATCTGGGCTCCAGGCAGAAGCA
TGCCGTTCCTCGGCAGCCCAGCCTGCGTAGACGGTCCCGCGGCGCTGACTGACCGGGCTGTGCTTTCTCGTCTTCAGCACCAGCAGGCAGCTGGCTCCGG[TC]
4516 IS [TC] TTTGGGGTATCTGGGCTCCAGGCAGAAGCACAGCCTCCCCGACCTGCCCTACGACTACGGCGCCCTGGAACCTCACATCAACGCGCAGATCATGCAGCTG ctg13516 6
4524 I S GGCTCCCGGACCCCCGCAA
4524 P A S CGCGCCGAGGTGGGCTCCTTACCG
4524 P G S ATGACGTGGCAGACCGGGCTCCTTACCG
4524 T A S GCCCCGGTAAGGAGCCCATGCGGGGGTCCGGGAGCCGG
4524 T G S GCCCCGGTAAGGAGCCCGTGCGGGGGTCCGGGAGCCGG
TGGGCAACCCCTTTCTGACCCAGTGGCAGCGGCGGTACTTCTACCTGTTCCCCAACCGCCTCGAGTGGCGGGGCGAGGGCGAGGCCCCGGTAAGGAGCCC[AG]
4524 IS [AG] TGCGGGGGTCCGGGAGCCGGGCTTCCGGGTGGCTGGCCGGCCCGCTCTTCACCTGCACCACCCATCCCTGGCCCTGCAGCAGAGCCTGCTGACCATGGAG ctg14333 11
4525 I S GGCCTAACACTGTTGGCACCTCCTCCTGA
4525 P G S ATGACGTGGCAGACCTTACCTGGGAAGTGGCY
4525 P A S CGCGCCGAGGTTTACCTGGGAAGTGGCY
4525 T G S TTCTGCCACTTCCCAGGTAAGCAGGAGGAGGTGCCAACAGTGTTAGGCCTG
4525 T A S TTCTGCCACTTCCCAGGTAAACAGGAGGAGGTGCCAACAGTGTTAGGCCTG
CCCTCCCAGCTGACAGTCCTCTCCACCTAGTGGCTGTCCAGTGCCCATTCCTCACCTTTTCCCGGGGAGGAGAGAGCAGCTTCTGCCACTTCCCAGGTAA[GA]CA
4525 IS [GA] GGAGGAGGTGCCAACAGTGTTAGGCCTGGCACAGTGTCTGGGTGATCGGGACC ADRBK1
4554 I A ATGAACTTCTAAACCTCACGGGAGGGTCATT
4554 P C A CGCGCCGAGGCTTAGAACATGAAAAACTCCC
4554 P G A ATGACGTGGCAGACGTTAGAACATGAAAAACTCCC
4554 T C A TCAGGGGAGTTTTTCATGTTCTAAGATGACCCTCCCGTGAGGTTTAGAAGTTCATTT
4554 T G A TCAGGGGAGTTTTTCATGTTCTAACATGACCCTCCCGTGAGGTTTAGAAGTTCATTT
AAGCCTAGATCAGCTGCCCTATGATGGGTGCAGGCCTTATAGACATGCCCAGATGAAGTCATATCTAAAAATGAACTTCTAAACCTCACGGGAGGGTCAT[CG]TTA
4554 IS [CG] GAACATGAAAAACTCCCCTGAAAATTTTTGTCAGTGCAACAGGTTTTGTTTACTTGGCAACAGTGAGCCCACTGTGGGAAAGGGGTTTTCCCAGCAG ctg14326 3
4632 I A GGGTTTACACATAGTCCTCTGCCCCTGTCCCA
4632 P C A ATGACGTGGCAGACCGCTGCACAGGTGY
4632 P T A CGCGCCGAGGTGCTGCACAGGTGGY
4632 T C A GAAACCACCTGTGCAGCGGGGACAGGGGCAGAGGACTATGTGTAAACCCCC
4632 T T A GAAACCACCTGTGCAGCAGGGACAGGGGCAGAGGACTATGTGTAAACCCCC
ACGGGAAGGCGCACCAGGTGTTCATTCTGAGGGAGGTAGGTGGGGAGGACAAAAGGGCCCCTGCCTTGGGGGTTTACACATAGTCCTCTGCCCCTGTCCC[CT]
4632 IS [CT] GCTGCACAGGTGGTTTCAGTTGGGCAGGAGCCTGTGCTGTTCTCCGGTTCTGTGAGGAACAACATTGCTTATGGGCTGCAGAGCTGCGAAGATGATAAGG ctg15907 6
4691 I S CTCATTCATCTATGGAAAGAGGCATGAGGACACCTTGACT
4691 P G S ATGACGTGGCAGACCCTCTTCCCCATGCGY
4691 P T S CGCGCCGAGGACTCTTCCCCATGCGY
4691 T G S TCCACGCATGGGGAAGAGGGTCAAGGTGTCCTCATGCCTCTTTCCATAGATGAATGAGTG
4691 T T S TCCACGCATGGGGAAGAGTGTCAAGGTGTCCTCATGCCTCTTTCCATAGATGAATGAGTG
ACCAGAAATTCAAAGCAAGCTTCCTCTGTGAGTGTCCAGACTCTTACTCACCAACATTATCCATTGTGACCGTCACAGATTCTCCACGCATGGGGAAGAG[GT]GTC
4691 IS [GT] AAGGTGTCCTCATGCCTCTTTCCATAGATGAATGAGTGCCCAGTGAAGTGGATGGTCAAAATTTCATTCTGGGTCCCCACACTACAGAAGTGCCACT ctg13446 1
4694 I S GGTGCTTCTTACCTTGACCACACATTCCCTGCT
4694 P C S ATGACGTGGCAGACGGAGAAGATGGACGACGY
4694 P T S CGCGCCGAGGAGAGAAGATGGACGACGY
4694 T C S ACAGCGTCGTCCATCTTCTCCGCAGGGAATGTGTGGTCAAGGTAAGAAGCACCTG
4694 T T S ACAGCGTCGTCCATCTTCTCTGCAGGGAATGTGTGGTCAAGGTAAGAAGCACCTG
TGAGGCATGGAGGGTCATCATGGGTGGGTCCACTGTCCTCACTGATACTCCATTCATAGGTGTATTCTCGGCCTGGAGCCACAGCGTCGTCCATCTTCTC[CT]GC
4694 IS [CT] AGGGAATGTGTGGTCAAGGTAAGAAGCACCTGGAGGAGTAACAGCCATCAAGACATGTGGGCAGTTTCTGAGGATTGCGTTTTCACCACTCTCAAATC ctg13446 1
4876 I A GTTTTTCCAACAGAACCAGACAGGTTTCTCCTGAAACTCTTTCT
4876 P A A CGCGCCGAGGATTATACGCCATGTACTGTTC
4876 P G A ATGACGTGGCAGACGTTATACGCCATGTACTGTT
4876 T A A ATATGAACAGTACATGGCGTATAATGAAAGAGTTTCAGGAGAAACCTGTCTGGTTCTGTTGGAAAAACTC
4876 T G A ATATGAACAGTACATGGCGTATAACGAAAGAGTTTCAGGAGAAACCTGTCTGGTTCTGTTGGAAAAACTC
CTGCGCCAGGAGACGGAGTTTTTCCAACAGAACCAGACAGGTTTCTCCTGAAACTCTTTC[AG]TTATACGCCATGTACTGTTCATATCCTCATACATCTGCTTTGAT
4876 IS [AG] CTCCCCCCTCCCCGCT ctg15907 6
4946 I A CACCCCAGCCTCCAGAACCCCATCAA
4946 P T A CGCGCCGAGGTCGTGGAGTGGCG
4946 P C A ATGACGTGGCAGACCCGTGGAGTGGCG
4946 T T A CTTACGCCACTCCACGATGATGGGGTTCTGGAGGCTGGGGTGCT
4946 T C A CTTACGCCACTCCACGGTGATGGGGTTCTGGAGGCTGGGGTGCT
CCCAGCGTGGAGACGTCTACACCTGCCACGTGGAGCACCCCAGCCTCCAGAACCCCATCA[TC]CGTGGAGTGGCGTAAGGGGATATTGAGTTTCTGTTACTATG
4946 IS [TC] GGCCCCACAAGACAAAGGG ctg15907 6
4960 I A CCAACCAAATATTCCCTGGCCTGGGCTGAGT
4960 P A A CGCGCCGAGGACGAGTCTGGGGACT
4960 P G A ATGACGTGGCAGACGCGAGTCTGGGGAC
4960 T A A ATCAAGTCCCCAGACTCGTCTCAGCCCAGGCCAGGGAATATTTGGTTGGGT
4960 T G A ATCAAGTCCCCAGACTCGCCTCAGCCCAGGCCAGGGAATATTTGGTTGGGT
ATGGAGCCTGAGGCAGAGATGCCGCCACACCCAACCAAATATTCCCTGGCCTGGGCTGAG[AG]CGAGTCTGGGGACTTGATTGCACTGTGTATTGGTCAAACCTC
4960 IS [AG] TTGCACTGTCTGCCTCCC ctg17333 X
5012 I S GGCGACAGGGAGGACCACTTTGTAGTCAAAT

FIGURE 129B

5012	P	T	S	CGCGCCGAGGAGTTGAACAGCAGGATC			
5012	P	C	S	ATGACGTGGCAGACGGTTGAACAGCAGGATC			
5012	T	T	S	CAACGATCCTGCTGTTCAACTTTTGACTACAAAGTGGTCCTCCCTGTCGCCCT			
5012	T	C	S	CAACGATCCTGCTGTTCAACCTTTGACTACAAAGTGGTCCTCCCTGTCGCCCT			
5012	IS	[TC]		CCTTCCAGCCCCCAACAGGTTCCCACTAACCTCCATTGCCCAACGATCCTGCTGTTCAAC[TC]TTTGACTACAAAGTGGTCCTCCCTGTCGCCCTCAAGGTAGTCT CATGACCCCCTCCACCC	ctg15907	6	
5014	I		A	GATCTGATGCCCTGTGGCTCTGAGACACCT			
5014	P	A	A	CGCGCCGAGGATGAACAGGGTCCCTC			
5014	P	G	A	ATGACGTGGCAGACGTGAACAGGGTCCCT			
5014	T	A	A	TGTAGAGGGACCCTGTTCATGGTGTCTCAGAGCCACAGGGCATCAGATCTG			
5014	T	G	A	TGTAGAGGGACCCTGTTCACGGTGTCTCAGAGCCACAGGGCATCAGATCTG			
5014	IS	[AG]		TGGGCAGGGGTGTGCCCTTAGGATTGGCACAGATCTGATGCCCTGTGGCTCTGAGACACC[AG]TGAACAGGGTCCCTCTACATTGGTGACTTCTGTCTCACCAG GATACCCAGACAGCGTTGT	ctg22fin4	22	
5018	I		A	TCCCAGGATAGACTCCTATTGGCTTGGGTAGATCCC			
5018	P	T	A	CGCGCCGAGGTATGTCCATGCCCAAGT			
5018	P	A	A	ATGACGTGGCAGACAATGTCCATGCCCAAG			
5018	T	T	A	CCCAACTTGGGCATGGACATAGGATCTACCCAAGCCAATAGGAGTCTATCCTGGGACT			
5018	T	A	A	CCCAACTTGGGCATGGACATTGGATCTACCCAAGCCAATAGGAGTCTATCCTGGGACT			
5018	IS	[TA]		TCTTTTCCAGTACTTCTATCAAAAGTCCCAGGATAGACTCCTATTGGCTTGGGTAGATCC[TA]ATGTCCATGCCCAAGTTGGGGTGGACAAGATACATGCCCCAAG TCGGGGTGGACAAGCTG	ctg22fin4	22	
5033	I		A	AGCCCTTCCTCTGATTAGCTCTGTGTCCCCT			
5033	P	A	A	CGCGCCGAGGAAGGAAGATCCAAAATCTCTC			
5033	P	G	A	ATGACGTGGCAGACGAGGAAGATCCAAAATCTCTC			
5033	T	A	A	TCAGGAGAGATTTTGGATCTTCCTTGGGGACACAGAGCTAATCAGAGGAAGGGCTGG			
5033	T	G	A	TCAGGAGAGATTTTGGATCTTCCTCGGGGACACAGAGCTAATCAGAGGAAGGGCTGG			
5033	IS	[AG]		AATATGCACAGTGACTGATGACTTCTCACCAGCCCTTCCTCTGATTAGCTCTGTGTCCCC[AG]AGGAAGATCCAAAATCTCTCCTGACTTCAGTTTCCCCTGCTATA AAACAGGGATGGGCTA	ctg22fin6	22	
5036	I		A	TGCCCCCTGCCAGGCAAGCACA			
5036	P	C	A	ATGACGTGGCAGACCCCACAAAGTCCTTCCT			
5036	P	T	A	CGCGCCGAGGTCCACAAAGTCCTTCCT			
5036	T	C	A	AGGCAGGAAGGACTTTGTGGGGTGCTTGCCTGGCAGGGGGCAGT			
5036	T	T	A	AGGCAGGAAGGACTTTGTGGAGTGCTTGCCTGGCAGGGGGCAGT			
5036	IS	[CT]		GTGTTAAAGCTGGGTAAAAAGCAAAGCAGCTGTGCAGACTGCCCCCTGCCAGGCAAGCAC[CT]CCACAAAGTCCTTCCTGCCTCTTCCTGCCTGCCTTTGGCTAA AAGCATCTTTCCAGAGAG	ctg15907	6	
5045	I		A	CACTAAGCCTCCAAAAACAGGAAACATGAAAAAGCCCAA			
5045	P	T	A	CGCGCCGAGGTAGGATTGCTTCCAGTGA			
5045	P	C	A	ATGACGTGGCAGACCAGGATTGCTTCCAGTG			
5045	T	T	A	AATGTCACTGGAAGCAATCCTATGGGCTTTTTCATGTTTCCTGTTTTTGGAGGCTTAGTGCG			
5045	T	C	A	AATGTCACTGGAAGCAATCCTGTGGGCTTTTTCATGTTTCCTGTTTTTGGAGGCTTAGTGCG			
5045	IS	[TC]		CGGCTCTATCAATGCCAGTTCGCACTAAGCCTCCAAAAACAGGAAACATGAAAAAGCCCA[TC]AGGATTGCTTCCAGTGACATTACCACGTTCTGGCTCAGGCCTA TGTCACTTCCATTGTGT	ctg25099	7	
5046	I		A	TGCCAGCAACTCAGCCAGGTAGGCTT			
5046	P	G	A	ATGACGTGGCAGACGTTACCTGATGGGATGAC			
5046	P	C	A	CGCGCCGAGGCTTACCTGATGGGATGAC			
5046	T	G	A	TTTGGTCATCCCATCAGGTAACAGCCTACCTGGCTGAGTTGCTGGCAGT			
5046	T	C	A	TTTGGTCATCCCATCAGGTAAGAGCCTACCTGGCTGAGTTGCTGGCAGT			
5046	IS	[GC]		CTTCTCCCCACCCTTCCTATGTTGTCTCTACCCACTGCCAGCAACTCAGCCAGGTAGGCT[GC]TTACCTGATGGGATGACCAAACTTTCAATCTGGAATAATCTGA GTGCTTGATAGCCTTGG	ctg15064	7	
5052	I		S	CAGAAGTAGTGGCCATTGCCATCCTAGGTCTCAC			
5052	P	C	S	ATGACGTGGCAGACGAGAAGGGCAATACTGTTT			
5052	P	A	S	CGCGCCGAGGTAGAAGGGCAATACTGTTTG			
5052	T	C	S	CCCCCAAACAGTATTGCCCTTCTCTGAGACCTAGGATGGCAATGGCCACTACTTCTGAT			
5052	T	A	S	CCCCCAAACAGTATTGCCCTTCTATGAGACCTAGGATGGCAATGGCCACTACTTCTGAT			
5052	IS	[CA]		GGCCACCCTAGGTATGTTTTATATGCCTTCCTCCACACCCCCAAACAGTATTGCCCTTCT[CA]TGAGACCTAGGATGGCAATGGCCACTACTTCTGATCCTACTGA AGGTCCTCTCTGCATCT	ctg15064	7	
5063	I		S	TGCTTAAAAAATATCCCATTCTTTTCTTCCAAAACCATTTTTATCAGAAATGT			
5063	P	T	S	CGCGCCGAGGACCTCAGCCCCTTG			
5063	P	G	S	ATGACGTGGCAGACCCCTCAGCCCCTTG			
5063	T	T	S	GGCTCAAGGGGCTGAGGTCATTTCTGATAAAAATGGTTTTGGAAGAAAAGAATGGGATATTTTTTAAGCATT			
5063	T	G	S	GGCTCAAGGGGCTGAGGGCATTTCTGATAAAAATGGTTTTGGAAGAAAAGAATGGGATATTTTTTAAGCATT			
5063	IS	[TG]		TGCTTTATCTGCTTTTGGCTCCAGTGATCTCTGAATTCCTAGTGGCTCAAGGGGCTGAGG[TG]CATTTCTGATAAAAATGGTTTTGGAAGAAAAGAATGGGATATTT TTTAAGCATTAGGGAG	ctg15665	20	
5096	I		S	CACAAGGCAGGGCTGAGACTTAAACCCCAT			
5096	P	T	S	CGCGCCGAGGATGGAGGGAAACAACAGT			
5096	P	C	S	ATGACGTGGCAGACGTGGAGGGAAACAACAG			
5096	T	T	S	CCTGACTGTTGTTTCCCTCCATTGGGGTTTAAGTCTCAGCCCTGCCTTGTGTT			
5096	T	C	S	CCTGACTGTTGTTTCCCTCCACTGGGGTTTAAGTCTCAGCCCTGCCTTGTGTT			
5096	IS	[TC]		CACAAAAGGCAGGGATTTACACCCAGGATTTGGAAGGCACCTGACTGTTGTTTCCCTCCA[TC]TGGGGTTTAAGTCTCAGCCCTGCCTTGTGTTAGCTGTGTGACC CAAGGCAGCCTGCTTCA	ctg14391	11	
5183	I		A	CCTCCGTGCTGAGCCTCAGAAAGGGGA			
5183	P	C	A	ATGACGTGGCAGACCAGGGAGCCCCATG			
5183	P	T	A	CGCGCCGAGGTAGGGAGCCCCATG			
5183	T	C	A	CTGGCATGGGGCTCCCTGCCCCTTTCTGAGGCTCAGCACGGAGGGG			
5183	T	T	A	CTGGCATGGGGCTCCCTACCCCTTTCTGAGGCTCAGCACGGAGGGG			
5183	IS	[CT]		GCTGCTGGTTCCCTCTGAAAATGTGGGTTTCTCCCCTCCGTGCTGAGCCTCAGAAAGGGG[CT]AGGGAGCCCCATGCCAGCACACATGGCCCCTCGGCTCTCTG GCCTCTGCAGGGTCAGCCC	ctg22fin4	22	
5288	I		S	CCCTGACCACCATTTTCCAGAAGTACCTCCGAGAATAA			
5288	P	G	S	ATGACGTGGCAGACCGCCTGGAAAATCCTC			
5288	P	A	S	CGCGCCGAGGTGCCTGGAAAATCCTCT			
5288	T	G	S	CCAGAGAGGATTTTCCAGGCGTATTCTCGGAGGTACTTCTGGAAAATGGTGGTCAGGGCG			
5288	T	A	S	CCAGAGAGGATTTTCCAGGCATATTCTCGGAGGTACTTCTGGAAAATGGTGGTCAGGGCG			
5288	IS	[GA]		CACTCAGACTATGAAGAACAGGACTCACTTGGGCAGGTTGCCAGAGAGGATTTTCCAGGC[GA]TATTCTCGGAGGTACTTCTGGAAAATGGTGGTCAGGGCGATC ATGGGCTCCCCAGTACTG	ctg14072	17	
5289	I		S	CCTGTGGTCCCTCGCTGATGTATAGCAAGTGTTTA			
5289	P	G	S	ATGACGTGGCAGACCAAACTCTTGTTAGCAAAGATGY			
5289	P	A	S	CGCGCCGAGGTAAACTCTTGTTAGCAAAGATGY			
5289	T	G	S	AAACCATCTTTGCTAACAAGAGTTTGAAACACTTGCTATACATCAGCGAGGGACCACAGGCC			
5289	T	A	S	AAACCATCTTTGCTAACAAGAGTTTAAAACACTTGCTATACATCAGCGAGGGACCACAGGCC			
5289	IS	[GA]		GTAGCGGAAGGCCATCTCCCGGGCACAGACACCGAAAACCATCTTTGCTAACAAGAGTTT[GA]AAACACTTGCTATACATCAGCGAGGGACCACAGGCCAACTCC TGATGGGCTGGGTGTATA	ctg15140	12	
5370	I		A	AGCCTCCAGGGAGCCACACACACAGA			
5370	P	C	A	ATGACGTGGCAGACCTCAAGGGCCTGGTTY			
5370	P	T	A	CGCGCCGAGGTTCAAGGGCCTGGTTY			
5370	T	C	A	AGAGAACCAGGCCCTTGAGCTGTGTGTGTGGCTCCCTGGAGGCTGG			
5370	T	T	A	AGAGAACCAGGCCCTTGAACTGTGTGTGTGGCTCCCTGGAGGCTGG			
5370	IS	[CT]		CCCTTTGGGGCACCAATGGGCATAGTGCCTGGCCCAGCCTCCAGGGAGCCACACACACAG[CT]TCAAGGGCCTGGTTCTCTGAGAGGGCAGTGAACCTCCCACC AATGGCCCAGACTTTTCCA	MULTIPLE	MULTIPLE	
5371	I		A	CCACGCCCCCGGAGCCTGTA			
5371	P	C	A	ATGACGTGGCAGACCCCTTGAATCCGCTTC			

FIGURE 129B

5371	P	T	A	CGCGCCGAGGTCCTTGAATCCGCTTCA			
5371	T	C	A	ATGCTGAAGCGGATTCAAGGGACAGGCTCCGGGGGGCGTGGGG			
5371	T	T	A	ATGCTGAAGCGGATTCAAGGAACAGGCTCCGGGGGCGTGGGG			
5371	IS	[CT]		AAACCCCAGCCTCACTTTCTCCCAGAAGCCTTAGCCGGTCCCCACGCCCCCGGAGCCTGT[CT]CCTTGAATCCGCTTCAGCATAAGAGTTAAGGAGCAGGGCACT GAGGCAGGCTCCGGGCCC	ctg15330	9	
5414	I		S	CACAGAAGGGAAATACTTTTTCCCTCAATGGACCT			
5414	P	T	S	CGCGCCGAGGATTTTTCCAGTTCTTAAAGTGGY			
5414	P	C	S	ATGACGTGGCAGACGTTTTTCCAGTTCTTAAAGTGGY			
5414	T	T	S	CCTTCCACTTTAAGAACTGGAAAAATGGTCCATTGAGGGAAAAAGTATTTCCCTTCTGTGTC			
5414	T	C	S	CCTTCCACTTTAAGAACTGGAAAAACGGTCCATTGAGGGAAAAAGTATTTCCCTTCTGTGTC			
5414	IS	[TC]		ACCCTATGGGTGCAGGAGCTCTTTTCTACACATTCCCTTCCACTTTAAGAACTGGAAAAA[TC]GGTCCATTGAGGGAAAAAGTATTTCCCTTCTGTGTCTCTTTTAA TCAGAGGAACTCATTT	ctg13740	5	
5415	I		S	GAAATTAGCACATTGATTTGGAAACAAATAAAAAGTATAAGACCCTGTACT			
5415	P	C	S	ATGACGTGGCAGACGACAAATTTTATGCCAATGACT			
5415	P	T	S	CGCGCCGAGGAACAAATTTTATGCCAATGACT			
5415	T	C	S	CTAGAGTCATTGGCATAAAATTTGTCGTACAGGGTCTTATACTTTTTATTTGTTTCCAAATCAATGTGCTAATTTCCA			
5415	T	T	S	CTAGAGTCATTGGCATAAAATTTGTTGTACAGGGTCTTATACTTTTTATTTGTTTCCAAATCAATGTGCTAATTTCCA			
5415	IS	[CT]		ACAAATGACTTTATATCATCATTGTAAAGAAATGGCTAGAGTCATTGGCATAAAATTTGT[CT]GTACAGGGTCTTATACTTTTTATTTGTTTCCAAATCAATGTGCTAA TTTCCAATCTTCTA	ctg15064	7	
5424	I		A	GGAATCATACCCTACCACACATTCAATGGAGCCAAGTAA			
5424	P	T	A	CGCGCCGAGGTTCCCAAAGAGTAGCTGT			
5424	P	C	A	ATGACGTGGCAGACCTCCCAAAGAGTAGCTGT			
5424	T	T	A	GTAAACAGCTACTCTTTGGGAATACTTGGCTCCATTGAATGTGTGGTAGGGTATGATTCCAG			
5424	T	C	A	GTAAACAGCTACTCTTTGGGAGTACTTGGCTCCATTGAATGTGTGGTAGGGTATGATTCCAG			
5424	IS	[TC]		CAGAAAGAGAAGGTAGTTTCCTGGAATCATACCCTACCACACATTCAATGGAGCCAAGTA[TC]TCCCAAAGAGTAGCTGTTTACTGCTGGTCTCTTACCTTGCTGG CTTTCATCATTCTTTCC	ctg15064	7	
5439	I		A	CCACCTCAGCCCACCCCTGGTGAT			
5439	P	A	A	CGCGCCGAGGAATCTCCCAGAACCCC			
5439	P	C	A	ATGACGTGGCAGACCATCTCCCAGAACCCC			
5439	T	A	A	GCCTGGGGTTCTGGGAGATTTCACCAGGGGTGGGCTGAGGTGGGG			
5439	T	C	A	GCCTGGGGTTCTGGGAGATGTCACCAGGGGTGGGCTGAGGTGGGG			
5439	IS	[AC]		CAGGGATAGGGCCTCTGCCAGAGAGGAGGCTCCCTCCCCACCTCAGCCCACCCCTGGTGA[AC]ATCTCCCAGAACCCCAGGCCCTAAGCTTCCCTCAGGCCAGC CCAGTCACCTTGTGTCTGA	ctg18433	19	
5442	I		A	CAGAAAACATTTAATCAAATGGTAAAAGAGGTAGCAAAAAACCTAGTTAAATT			
5442	P	A	A	CGCGCCGAGGAAGGTGGCAAATCTATCTATC			
5442	P	G	A	ATGACGTGGCAGACGAGGTGGCAAATCTATCTATC			
5442	T	A	A	GCCTGATAGATAGATTTGCCACCTTATTTAACTAGGTTTTTTGCTACCTCTTTTACCATTTGATTAAATGTTTTCTGTC			
5442	T	G	A	GCCTGATAGATAGATTTGCCACCTCATTTAACTAGGTTTTTTGCTACCTCTTTTACCATTTGATTAAATGTTTTCTGTC			
5442	IS	[AG]		AACACTGACAGAAAACATTTAATCAAATGGTAAAAGAGGTAGCAAAAAACCTAGTTAAAT[AG]AGGTGGCAAATCTATCTATCAGGCACCTCTCACTCTTTCCTTTAA AGCCATAGAAAAGTA	ctg19247	7	
5445	I		A	GGCACGCCTCCCAGCCTGGAC			
5445	P	T	A	CGCGCCGAGGTGACTGTGACGCCG			
5445	P	A	A	ATGACGTGGCAGACAGACTGTGACGCCG			
5445	T	T	A	TTACCGGCGTCACAGTCATCCAGGCTGGGAGGCGTGCCCT			
5445	T	A	A	TTACCGGCGTCACAGTCTTCCAGGCTGGGAGGCGTGCCCT			
5445	IS	[TA]		CCTACAGTCCATGGAAAGCCTGTATGGACCGGGCAGTGAGGGCACGCCTCCCAGCCTGGA[TA]GACTGTGACGCCGGTAAGCCCCCACCCAGCGGCAGGCAGG CATTTGAGGGGTGGGCCATT	ctg_na	NA	
5452	I		S	GGACCCACATACATGAGGGTCTCTTAGGTGCAA			
5452	P	A	S	CGCGCCGAGGTGTCCTCTTGTTGCTGA			
5452	P	G	S	ATGACGTGGCAGACCGTCCTCTTGTTGCTG			
5452	T	A	S	AGACTCAGCAACAAGAGGACATGCACCTAAGAGACCCTCATGTATGTGGGTCCCA			
5452	T	G	S	AGACTCAGCAACAAGAGGACGTGCACCTAAGAGACCCTCATGTATGTGGGTCCCA			
5452	IS	[AG]		GGCATTTCCCAGGCATGGATAAGCCCTAGTCCTCATCTGCAGACTCAGCAACAAGAGGAC[AG]TGCACCTAAGAGACCCTCATGTATGTGGGTCCCACGGAGACA AAGTTCACGATTTTGGGG	ctg14947	16	IL4R
5453	I		A	CACCCTACTCCTCTACGCCCTACAAGGGAGT			
5453	P	G	A	ATGACGTGGCAGACGTGGGTACTATATGACATTTCTA			
5453	P	A	A	CGCGCCGAGGATGGGTACTATATGACATTTCTAG			
5453	T	G	A	AAGGCTAGAAATGTCATATAGTACCCACCTCCCTTGTAGGGCGTAGAGGAGTAGGGTGGG			
5453	T	A	A	AAGGCTAGAAATGTCATATAGTACCCATCTCCCTTGTAGGGCGTAGAGGAGTAGGGTGGG			
5453	IS	[GA]		GACCAAAATTTATCTCTCTCTCTGTTCCCACCCTACTCCTCTACGCCCTACAAGGGAG[GA]TGGGTACTATATGACATTTCTAGCCTTACCTTTGCAGTAGTAAG CTAAAACCAAAGGTTC			
5468	I		A	TCCACTGTGCAGAAAACAGGGTGAAGATTGCCT			
5468	P	G	A	ATGACGTGGCAGACGTGTGTGGCGCCT			
5468	P	C	A	CGCGCCGAGGCTGTGTGGCGCCT			
5468	T	G	A	TCAAAGGCGCCACACACGGCAATCTTCACCCTGTTTTCTGCACAGTGGAGA			
5468	T	C	A	TCAAAGGCGCCACACAGGGCAATCTTCACCCTGTTTTCTGCACAGTGGAGA			
5468	IS	[GC]		GCTGCTGGAGATGGAGGGCTTAGGAGTCTCCACTGTGCAGAAAACAGGGTGAAGATTGCC[GC]TGTGTGGCGCCTTTGATTCCTCCAAAGGCATTTTTCAATCAG AATTGGCATTTCCCACCT	ctg15842	19	
5470	I		A	GCCCCCCAACACCCAGGGATCATGA			
5470	P	C	A	ATGACGTGGCAGACCGGAATCACTCACAGTATAAG			
5470	P	T	A	CGCGCCGAGGTGGAATCACTCACAGTATAAG			
5470	T	C	A	TCACCTTATACTGTGAGTGATTCCGCATGATCCCTGGGTGTTGGGGGGCAG			
5470	T	T	A	TCACCTTATACTGTGAGTGATTCCACATGATCCCTGGGTGTTGGGGGGCAG			
5470	IS	[CT]		TGACAATTCTGTGTGTGTGAAGTAGAAATGACCCCTGCCCCCCAACACCCAGGGATCATG[CT]GGAATCACTCACAGTATAAGGTGACAGTGAAATATCCAGTTAC TCCTCCAGTCCCATCGC	ctg15842	19	
5472	I		A	GGAGGAGAGCAAAGCCCTGTTCCGGACA			
5472	P	C	A	ATGACGTGGCAGACCATCATCACCTACCCCT			
5472	P	T	A	CGCGCCGAGGTATCATCACCTACCCCTG			
5472	T	C	A	GAACCAGGGGTAGGTGATGATGGTCCGGAACAGGGCTTTGCTCTCCTCCAT			
5472	T	T	A	GAACCAGGGGTAGGTGATGATAGTCCGGAACAGGGCTTTGCTCTCCTCCAT			
5472	IS	[CT]		TTCCCGCTGCCTTCGCTCCCGCCAGAACCGGATGGAGGAGAGCAAAGCCCTGTTCCGGAC[CT]ATCATCACCTACCCCTGGTTCCAGAACTCCTCCGTCATCCTC TTCCTCAACAAGAAGGAC	ctg16564	19	
5477	I		S	CGGGGCGAGACTGCCAGCTTAGCA			
5477	P	A	S	CGCGCCGAGGTGGCCCTGTGTGTGY			
5477	P	G	S	ATGACGTGGCAGACCGGCCCTGTGTGTY			
5477	T	A	S	TCCCCACACACAGGGCCAGCTAAGCTGGCAGTCTCGCCCCGGG			
5477	T	G	S	TCCCCACACACAGGGCCGGCTAAGCTGGCAGTCTCGCCCCGGG			
5477	IS	[AG]		GCATGGCTACAGGAGGTGGTGCCAGGGTGAGAGAAAGCCCCAGTCCCCACACACAGGGCC[AG]GCTAAGCTGGCAGTCTCGCCCCGGGCAGGGGCAGCCCTC CTTGTCAAGACCTCTCCCCTT	ctg11	15	
5482	I		S	GCGTGTCTCCTGTTTTCCAGGAGGGAGGATT			
5482	P	G	S	ATGACGTGGCAGACCGGTGCATCCAGAAGAY			
5482	P	T	S	CGCGCCGAGGAGGTGCATCCAGAAGAAY			
5482	T	G	S	GATTTTCTTCTGGATGCACCGATCCTCCCTCCTGGAAAACAGGAGACACGCGG			
5482	T	T	S	GATTTTCTTCTGGATGCACCTATCCTCCCTCCTGGAAAACAGGAGACACGCGG			
5482	IS	[GT]		AGGCGCTGTATTTGCCAGGCTCCTCCGTCTTCCGCATCAGGATTTTCTTCTGGATGCACC[GT]ATCCTCCCTCCTGGAAAACAGGAGACACGCGGGCAGCGGCTC CCAGGACACCCATGGCCC	MULTIPLE	MULTIPLE	
5484	I		A	TGCCTTTTTGTAATTTTGCTAGAACTAGCTTTCCAAATCTGGGATGTATT			
5484	P	A	A	CGCGCCGAGGATTATAAACTTACCAAAGCTTGTCY			
5484	P	G	A	ATGACGTGGCAGACGTTATAAACTTACCAAAGCTTGTY			

FIGURE 129B

5484	T	A	A	TTAAGACAAGCTTTGGTAAGTTTATAATATACATCCCAGATTTGGAAAGCTAGTTCTAGCAAAATTACAAAAAGGCAAA		
5484	T	G	A	TTAAGACAAGCTTTGGTAAGTTTATAACATACATCCCAGATTTGGAAAGCTAGTTCTAGCAAAATTACAAAAAGGCAAA		
5484	IS	[AG]		CTATTTTGGTTTGCCTTTTTGTAATTTTGCTAGAACTAGCTTTCCAAATCTGGGATGTAT[AG]TTATAAACTTACCAAAGCTTGTCTTAAGTGTGAATATAAAAGTGG CTTTCTGGTTTGAAT	ctg15422	X
5508	I		S	GGCAGAGTTAAAGAGCAAAAGCTTGTGCCTTTGTTTCTT		
5508	P	C	S	ATGACGTGGCAGACGGTTTCTGATGTACAAGCCY		
5508	P	T	S	CGCGCCGAGGAGTTTCTGATGTACAAGCCY		
5508	T	C	S	CAGGGGCTTGTACATCAGAAACCAGAAACAAAGGCACAAGCTTTTGCTCTTTAACTCTGCCTA		
5508	T	T	S	CAGGGGCTTGTACATCAGAAACTAGAAACAAAGGCACAAGCTTTTGCTCTTTAACTCTGCCTA		
5508	IS	[CT]		GAAGACATTGTCAGTATTTCACAGGTTCAACAGAGCCCCAGGGGCTTGTACATCAGAAAC[CT]AGAAACAAAGGCACAAGCTTTTGCTCTTTAACTCTGCCTAGCTA TAGCACCTAGCATATT	ctg25099	7
5537	I		S	GGGCTCCAGTGCTGCCTACTGCTTCAGC		
5537	P	T	S	CGCGCCGAGGAAGTGCTCCCTGTCCY		
5537	P	A	S	ATGACGTGGCAGACTAGTGCTCCCTGTCCTY		
5537	T	T	S	GGCCAGGACAGGGAGCACTTCTGAAGCAGTAGGCAGCACTGGAGCCCAG		
5537	T	A	S	GGCCAGGACAGGGAGCACTACTGAAGCAGTAGGCAGCACTGGAGCCCAG		
5537	IS	[TA]		GGGCTGGGTTGGACTAAGGGGAGACCCTCTGGGACACCCTGGGCCAGGACAGGGAGCACT[TA]CTGAAGCAGTAGGCAGCACTGGAGCCCAGATTTCAGCTTT CTGTTCTTTGCCATCATATT	ctg15665	20
5546	I		A	CATCACATACCTACAAACACTCAAGTACAATTACTTGAATGTAAAAGTAAT		
5546	P	G	A	ATGACGTGGCAGACGAGAAAATTTAGCGAGCTTTTY		
5546	P	A	A	CGCGCCGAGGAAGAAAATTTAGCGAGCTTTTTY		
5546	T	G	A	ATTTAAAAAGCTCGCTAAATTTTCTCTTACTTTTACATTCAAGTAATTGTACTTGAGTGTTTGTAGGTATGTGATGAA		
5546	T	A	A	ATTTAAAAAGCTCGCTAAATTTTCTTTTACTTTTACATTCAAGTAATTGTACTTGAGTGTTTGTAGGTATGTGATGAA		
5546	IS	[GA]		AATAGATATTCATCACATACCTACAAACACTCAAGTACAATTACTTGAATGTAAAAGTAA[GA]AGAAAATTTAGCGAGCTTTTTAAATATGTGGGACTAAGATCTGTG AAAGTATCTTTAAAT	ctg17103	4
5549	I		A	TCTTCCTTCACCACCCTGCCAAGCGACT		
5549	P	A	A	CGCGCCGAGGAAGGTAGAGGTCAGTGAGY		
5549	P	G	A	ATGACGTGGCAGACGAGGTAGAGGTCAGTGAGY		
5549	T	A	A	CCAGCTCACTGACCTCTACCTTGTCGCTTGGCAGGGTGGTGAAGGAAGAAA		
5549	T	G	A	CCAGCTCACTGACCTCTACCTCGTCGCTTGGCAGGGTGGTGAAGGAAGAAA		
5549	IS	[AG]		AAGCAGGGGAGGCGGGCGTTGTCATCTGAAATTTCTTCCTTCACCACCCTGCCAAGCGAC[AG]AGGTAGAGGTCAGTGAGCTGGACCAACCATCCCCACCCCGA CCCCCATCAAACTTTCTCC	ctg3454	17
5559	I		A	CCTGCTCCCAGGGGAGATGGGGTT		
5559	P	G	A	ATGACGTGGCAGACGCACTCAGGCTACTGTY		
5559	P	A	A	CGCGCCGAGGACACTCAGGCTACTGTCY		
5559	T	G	A	CCCAGACAGTAGCCTGAGTGCACCCCATCTCCCCTGGGAGCAGGCA		
5559	T	A	A	CCCAGACAGTAGCCTGAGTGTACCCCATCTCCCCTGGGAGCAGGCA		
5559	IS	[GA]		TGGGCCTTGGGTGGCTGGAGAAGGGACTGAATGCATGCCTGCTCCCAGGGGAGATGGGGT[GA]CACTCAGGCTACTGTCTGGGGACTTGGGAGACCCTGTACC TGCCTAGGAATTGGGGGCAG	ctg17403	17
5612	I		A	AGACACTGTGACAGGTTCCCCAGTCTCTACCATAGA		
5612	P	C	A	ATGACGTGGCAGACCAGGGAGGCTGACGY		
5612	P	T	A	CGCGCCGAGGTAGGGAGGCTGACGY		
5612	T	C	A	GCAGCGTCAGCCTCCCTGCTATGGTAGAGACTGGGGAACCTGTCACAGTGTCTGG		
5612	T	T	A	GCAGCGTCAGCCTCCCTACTATGGTAGAGACTGGGGAACCTGTCACAGTGTCTGG		
5612	IS	[CT]		GCCCCAGGAGCCAGGCATCAGGCCCAGACACTGTGACAGGTTCCCCAGTCTCTACCATAG[CT]AGGGAGGCTGACGCTGCGCCCCTCGGGCATGTCCCCTCACC TCCTGCCTTCACACCTCCT	ctg22fin3	22
5625	I		A	GGGGTCATTTTTCCTGACTTTTTCCAGTTCAGTGGTCT		
5625	P	G	A	ATGACGTGGCAGACGTTTCAGCAAAGCATTTTATATGY		
5625	P	A	A	CGCGCCGAGGATTTCAGCAAAGCATTTTATATGY		
5625	T	G	A	CAAGCATATAAAATGCTTTGCTGAAACGACCACTGAACTGGAAAAAGTCAGGAAAAATGACCCCGA		
5625	T	A	A	CAAGCATATAAAATGCTTTGCTGAAATGACCACTGAACTGGAAAAAGTCAGGAAAAATGACCCCGA		
5625	IS	[GA]		TTATGAGTGTTCGCATGGAATTCGGGGTCATTTTTCCTGACTTTTTCCAGTTCAGTGGTC[GA]TTTCAGCAAAGCATTTTATATGCTTGTGATAGAAACTCATAAAAC TCAGTTTACTACTGT	ctg21fin2	21
5658	I		A	ACCTAGTGCACTGAACCACCAAGTGATTTCAGACCC		
5658	P	G	A	ATGACGTGGCAGACGAAAGGAATGCCTTGTAAACY		
5658	P	T	A	CGCGCCGAGGTAAAGGAATGCCTTGTAAACAY		
5658	T	G	A	CCTCTGTTTACAAGGCATTCCTTTCGGTCTGAAATCACTTGGTGGTTCAGTGCACTAGGTTT		
5658	T	T	A	CCTCTGTTTACAAGGCATTCCTTTAGGTCTGAAATCACTTGGTGGTTCAGTGCACTAGGTTT		
5658	IS	[GT]		ATCACACACCAAAGTTTAAAGAAAAACCTAGTGCACTGAACCACCAAGTGATTTCAGACC[GT]AAAGGAATGCCTTGTAAACAGAGGAAACTAACCTAACGATCACT GGTGTTCCTAACTCCC	ctg16537	20
5676	I		A	CCAGGGCATCAAGCTCTTCCCTGGCA		
5676	P	T	A	CGCGCCGAGGTGGCTGACCCTGCY		
5676	P	C	A	ATGACGTGGCAGACCGGCTGACCCTGCY		
5676	T	T	A	TGAGGCAGGGTCAGCCAGCCAGGGAAGAGCTTGATGCCCTGGTG		
5676	T	C	A	TGAGGCAGGGTCAGCCGGCCAGGGAAGAGCTTGATGCCCTGGTG		
5676	IS	[TC]		GGGAACTGTAGTTTCCCTAGTCCCCCATGCTCCCACCAGGGCATCAAGCTCTTCCCTGGC[TC]GGCTGACCCTGCCTCAGCCCTAGTCTCTCTGCTGACCTGCGG CCCCGGGAAGCGTGCGTC	ctg18037	7
5682	I		S	CCAGAGCCCACCCCCTGCAGAGAATGT		
5682	P	T	S	CGCGCCGAGGAGCGCCGTCGGY		
5682	P	C	S	ATGACGTGGCAGACGGCGCCGTCGGY		
5682	T	T	S	CCATCCGACGGCGCTCATTCTCTGCAGGGGGTGGGCTCTGGGA		
5682	T	C	S	CCATCCGACGGCGCCCATTCTCTGCAGGGGGTGGGCTCTGGGA		
5682	IS	[TC]		CCAGCGGTGAGTACCCTGCCCTGCCCACCCCAGGGGTCCGGGGAATCCATCCGACGGCGC[TC]CATTCTCTGCAGGGGGTGGGCTCTGGGAGATTTAGGCCCA TTGTGGGACCCCCGTCCCCT	ctg_na	NA
5700	I		A	CACTCCCCTGTCCCTAGGCAACCACCT		
5700	P	G	A	ATGACGTGGCAGACGTTCTACTTTCTGTCTCTGTGY		
5700	P	A	A	CGCGCCGAGGATTCTACTTTCTGTCTCTGTGY		
5700	T	G	A	AAGTCACAGAGACAGAAAGTAGAACGGTGGTTGCCTAGGGACAGGGGAGTGGG		
5700	T	A	A	AAGTCACAGAGACAGAAAGTAGAATGGTGGTTGCCTAGGGACAGGGGAGTGGG		
5700	IS	[GA]		CTTTATACCCTTTAAACACAAATTCCCCATTCCCCACTCCCCTGTCCCTAGGCAACCACC[GA]TTCTACTTTCTGTCTCTGTGACTTCGACTACTTTAGCTACCTCAT GCAATTGGGGTCATC	ctg24	15
5702	I		S	AGAGGCCTGGGAAGGGGGTGTCTTTGT		
5702	P	T	S	CGCGCCGAGGAGAAACATGAGACTCACCTY		
5702	P	C	S	ATGACGTGGCAGACGGAAACATGAGACTCACCY		
5702	T	T	S	CTGGAGGTGAGTCTCATGTTTCTCAAAGACACCCCCTTCCCAGGCCTCTGC		
5702	T	C	S	CTGGAGGTGAGTCTCATGTTTCCCAAAGACACCCCCTTCCCAGGCCTCTGC		
5702	IS	[TC]		GGCGGCGGGCAGCAGGTGTCCGCCTAGCAGTCACTAGACTGGAGGTGAGTCTCATGTTTC[TC]CAAAGACACCCCCTTCCCAGGCCTCTGCCACCCGCCTGGTG TTGCCCACACTCTCCCCAA	ctg16279	17
5732	I		A	GGAATTACAGGTGTGAGCCACTTACATCTTAATATAATAATGTATGTCTTTAAATAT		
5732	P	C	A	ATGACGTGGCAGACCATCAAAATAATATAAATGCCTTGCY		
5732	P	A	A	CGCGCCGAGGAATCAAAATAATATAAATGCCTTGCY		
5732	T	C	A	ATATGCAAGGCATTTATATTATTTTGATGTATTTAAAGACATACATTATTATATTAAGATGTAAGTGGCTCACACCTGTAATTCCCA		
5732	T	A	A	ATATGCAAGGCATTTATATTATTTTGATTTATTTAAAGACATACATTATTATATTAAGATGTAAGTGGCTCACACCTGTAATTCCCA		
5732	IS	[CA]		GCTGGGAATTACAGGTGTGAGCCACTTACATCTTAATATAATAATGTATGTCTTTAAATA[CA]ATCAAAATAATATAAATGCCTTGCATATCATAAATTTCAATTAATG TATCCTTCACCCTC	ctg3235	11
5754	I		A	GCCCAGCTCAGTGCCACAAAGCTCAT		
5754	P	A	A	CGCGCCGAGGATAGGAGGGATGTTCCAGY		
5754	P	G	A	ATGACGTGGCAGACGTAGGAGGGATGTTCCAY		
5754	T	A	A	TCCACTGGAACATCCCTCCTATTGAGCTTTGTGGCACTGAGCTGGGCAT		

FIGURE 129B

5754	T	G	A	TCCACTGGAACATCCCTCCTACTGAGCTTTGTGGCACTGAGCTGGGCAT			
5754	IS	[AG]		GTGGCAAAGAGAGGTCCAGAGTCCTGGCCCTTGATGCCCAGCTCAGTGCCACAAAGCTCA[AG]TAGGAGGGATGTTCCAGTGGATGAGGGCCACCAGGAAGCAC AGGTCCAAGGCTGGTCCCA	ctg13206	14	
5758	I		A	GATTGTTGATTTACTGAAGTTACCTTATACTTGTTTTTTGTTTTTTTTGTTGTTGC			
5758	P	T	A	CGCGCCGAGGTTTTTTTGAGACAAGAGTTTTGCY			
5758	P	A	A	ATGACGTGGCAGACATTTTTTGAGACAAGAGTTTTGCY			
5758	T	T	A	AAGAGCAAAACTCTTGTCTCAAAAAAACAACAACAAAAAAAACAAAAAACAAGTATAAGGTAACTTCAGTAAATCAACAATCGA			
5758	T	A	A	AAGAGCAAAACTCTTGTCTCAAAAAATCAACAACAAAAAAAACAAAAAACAAGTATAAGGTAACTTCAGTAAATCAACAATCGA			
5758	IS	[TA]		GAATCGATTGTTGATTTACTGAAGTTACCTTATACTTGTTTTTTGTTTTTTTTGTTGTTG[TA]TTTTTTGAGACAAGAGTTTTGCTCTTGTTGCCCAGGCTGGAGTACA GTGGCGCAGTCTTG			
5762	I		A	GCTCCTACAAATTTGCAGGACTTGATTTCACAGGCAGTAAAAAGT			
5762	P	G	A	ATGACGTGGCAGACGTCTATCAGGGTCTTGAAGAY			
5762	P	A	A	CGCGCCGAGGATCTATCAGGGTCTTGAAGAY			
5762	T	G	A	TCTCTCTTCAAGACCCTGATAGACCTTTTTACTGCCTGTGAAATCAAGTCCTGCAAATTTGTAGGAGCCT			
5762	T	A	A	TCTCTCTTCAAGACCCTGATAGATCTTTTTACTGCCTGTGAAATCAAGTCCTGCAAATTTGTAGGAGCCT			
5762	IS	[GA]		GTGGCAGATTATAGAGGCTCCTACAAATTTGCAGGACTTGATTTCACAGGCAGTAAAAAG[GA]TCTATCAGGGTCTTGAAGAGAGACATGAAAGCAGTGTCTTAGA AACGTTAGCCTAGCAGC	ctg15811	4	
5767	I		A	TGCCAGGCGGAGAGCAGGGCA			
5767	P	T	A	CGCGCCGAGGTGTGGTCTACTCCAACAY			
5767	P	C	A	ATGACGTGGCAGACCGTGGTCTACTCCAACAY			
5767	T	T	A	CTCGTGTTGGAGTAGACCACAGCCCTGCTCTCCGCCTGGCACA			
5767	T	C	/	CTCGTGTTGGAGTAGACCACGGCCCTGCTCTCCGCCTGGCACA			
5767	IS	[TC]		CAGCCTGCAGCTTAGCAATGCCGAAGCCATGCTCATCCTGTGCCAGGCGGAGAGCAGGGC[TC]GTGGTCTACTCCAACACGAGAGGTGAGGTGCCGCCCACCCA GGCCCAAGGAGGATGCCCA	ctg21fin5	21	
5771	I		A	AGAGACGCTGTATATAAAGTGCCACGCTTGATGCTGT			
5771	P	A	A	CGCGCCGAGGAGTGGATAGTGGGCACY			
5771	P	G	A	ATGACGTGGCAGACGGTGGATAGTGGGCAY			
5771	T	A	A	TTGAGTGCCCACTATCCACTCAGCATCAAGCGTGGCACTTTATATACAGCGTCTCTGA			
5771	T	G	A	TTGAGTGCCCACTATCCACCCAGCATCAAGCGTGGCACTTTATATACAGCGTCTCTGA			
5771	IS	[AG]		ACCTTGAAGAGCTGTTATCAAGTCAGAGACGCTGTATATAAAGTGCCACGCTTGATGCTG[AG]GTGGATAGTGGGCACTCAAACAAAAGCAGTGATTAGTGTTAGT ACTTTCATTCTACAACC	ctg13321	5	
5774	I		A	GGCATATCTGTAATCAGGGTCTTTCTATCCTTTGCCTTTTCCT			
5774	P	A	A	CGCGCCGAGGAGTGTGGTTATCCTCATGAY			
5774	P	G	A	ATGACGTGGCAGACGGTGTGGTTATCCTCATGY			
5774	T	A	A	GGCATCATGAGGATAACCACACTGGAAAAGGCAAAGGATAGAAAGACCCTGATTACAGATATGCCCA			
5774	T	G	A	GGCATCATGAGGATAACCACACCGGAAAAGGCAAAGGATAGAAAGACCCTGATTACAGATATGCCCA			
5774	IS	[AG]		TATGCTCCATTAACCATGGGCATATCTGTAATCAGGGTCTTTCTATCCTTTGCCTTTTCC[AG]GTGTGGTTATCCTCATGATGCCTCAAAGTTTTTTACCAAGTCCTA AAAGCCAATCTTTCT	ctg17782	X	
5776	I		S	CGGCAGAAAACGCTAGAATGAGAAAAAAAAGAAAAGGAGAGGATTAAAACTT			
5776	P	T	S	CGCGCCGAGGATAACACCTACCCATGTTTCY			
5776	P	C	S	ATGACGTGGCAGACGTAACACCTACCCATGTTTY			
5776	T	T	S	GTATGAAACATGGGTAGGTGTTATAGTTTTAATCCTCTCCTTTTCTTTTTTTTCTCATTCTAGCGTTTTCTGCCGAT			
5776	T	C	S	GTATGAAACATGGGTAGGTGTTACAGTTTTAATCCTCTCCTTTTCTTTTTTTTCTCATTCTAGCGTTTTCTGCCGAT			
5776	IS	[TC]		CTTTTTCATCTTTCCCTCCAGAAGTAAAAATAGCACAGTATGAAACATGGGTAGGTGTTA[TC]AGTTTTAATCCTCTCCTTTTCTTTTTTTTCTCATTCTAGCGTTTTC TGCCGATCTTTCTA	ctg17490	X	
5784	I		A	TGCCAGAGGCTGCCCGAAGTGCTTAAT			
5784	P	G	A	ATGACGTGGCAGACGTGTTATTATCTCATTCGATCTTCY			
5784	P	A	A	CGCGCCGAGGATGTTATTATCTCATTCGATCTTCAY			
5784	T	G	A	ACTGTGAAGATCGAATGAGATAATAACACTTAAGCACTTCGGGCAGCCTCTGGCATG			
5784	T	A	A	ACTGTGAAGATCGAATGAGATAATAACATTTAAGCACTTCGGGCAGCCTCTGGCATG			
5784	IS	[GA]		TTTGGTGGTTAGCATTGACTTGGGGCCCATCACATGCCAGAGGCTGCCCGAAGTGCTTAA[GA]TGTTATTATCTCATTCGATCTTCACAGTCCTGATGGAAGTGAC TCTTCTTAGAGTCTTCC	ctg13206	14	
5791	I		A	CGGAAAGGTCTGAGGATATTGATTCAGTCCTGGGTTA			
5791	P	T	A	CGCGCCGAGGTTTCCCTAACTACAGGATAGGY			
5791	P	C	A	ATGACGTGGCAGACCTTCCCTAACTACAGGATAGGY			
5791	T	T	A	CCACCCTATCCTGTAGTTAGGGAAAAACCCAGGACTGAATCAATATCCTCAGACCTTTCCGTT			
5791	T	C	A	CCACCCTATCCTGTAGTTAGGGAAGAACCCAGGACTGAATCAATATCCTCAGACCTTTCCGTT			
5791	IS	[TC]		CTAAAGGTTCTGATCCCACTTGAACGGAAAGGTCTGAGGATATTGATTCAGTCCTGGGTT[TC]TTCCCTAACTACAGGATAGGGTGGGGTAGAGAAAGGATATTTG GGGGAAATTTTACTTGG	ctg15907	6	
5805	I		S	GATGCCAGAAGGGTACTGTCTTCTCTTTCAGTTTAGAATCTCCT			
5805	P	G	S	CGCGCCGAGGCCTATGACTCCCAGTATATGA			
5805	P	C	S	ATGACGTGGCAGACGCTATGACTCCCAGTATATG			
5805	T	G	S	AGATTCATATACTGGGAGTCATAGGGGAGATTCTAAACTGAAAGAGAAGACAGTACCCTTCTGGCATCTC			
5805	T	C	S	AGATTCATATACTGGGAGTCATAGCGGAGATTCTAAACTGAAAGAGAAGACAGTACCCTTCTGGCATCTC			
5805	IS	[GC]		GGCATAAGTCATCACCACCACCACCGTTTTCATTATAGATTCATATACTGGGAGTCATAG[GC]GGAGATTCTAAACTGAAAGAGAAGACAGTACCCTTCTGGCATCT CCAGCACAGCATTTAC	ctg15907	6	
5806	I		S	CTCCGGGATAAGCTCCAGGTGCTCCAC			
5806	P	C	S	ATGACGTGGCAGACGGGTAGGCGCCTG			
5806	P	A	S	CGCGCCGAGGTGGTAGGCGCCTG			
5806	T	C	S	CCTCCAGGCGCCTACCCTGGAGCACCTGGAGCTTATCCCGGAGCA			
5806	T	A	S	CCTCCAGGCGCCTACCATGGAGCACCTGGAGCTTATCCCGGAGCA			
5806	IS	[CA]		CCTACCCCGGGCAGGCACCCCCAGGGGCTTATCCTGGACAGGCACCTCCAGGCGCCTACC[CA]TGGAGCACCTGGAGCTTATCCCGGAGCACCTGCACCTGGA GTCTACCCAGGGCCACCCAG	ctg17341	14	LGALS3
5854	I		A	CCACTTGGCCCACAATTTCTCCAACAGAAAAAATGTACAGAAA			
5854	P	C	A	ATGACGTGGCAGACCTTAATGAGTGCCCACAT			
5854	P	T	A	CGCGCCGAGGTTTAATGAGTGCCCACATC			
5854	T	C	A	GGGGGATGTGGGCACTCATTAAGTTCTGTACATTTTTTCTGTTGGAGAAATTGTGGGCCAAGTGGGT			
5854	T	T	A	GGGGGATGTGGGCACTCATTAAATTCTGTACATTTTTTCTGTTGGAGAAATTGTGGGCCAAGTGGGT			
5854	IS	[CT]		CTCAATGCTGAGACAGACCCACTTGGCCCACAATTTCTCCAACAGAAAAAATGTACAGAA[CT]TTAATGAGTGCCCACATCCCCCAGCCATTCAGGATGCTGTCCG ATAAGCCCACTTATTTC	ctg15907	6	
5857	I		A	TGAGCCACCACGCCCGGCCT			
5857	P	C	A	ATGACGTGGCAGACCGATAAACTTATTTTTTAATGAACTGT			
5857	P	A	A	CGCGCCGAGGAGATAAACTTATTTTTTAATGAACTGTTG			
5857	T	C	A	TTACCAACAGTTCATTAAAAAATAAGTTTATCGGGCCGGGCGTGGTGGCTCACG			
5857	T	A	A	TTACCAACAGTTCATTAAAAAATAAGTTTATCTGGCCGGGCGTGGTGGCTCACG			
5857	IS	[CA]		TCCACCCGCCTCGGCCTCCCAAAGTGCTGGGAACATAGGCGTGAGCCACCACGCCCGGCC[CA]GATAAACTTATTTTTTAATGAACTGTTGGTAAAGTTAATATGT TTTTTCTTTCCTAAAA			
5862	I		S	CCTCCCCTGACTTCAGGACCAACGGAACC			
5862	P	T	S	CGCGCCGAGGAAGAGGCTGCAGGTT			
5862	P	A	S	ATGACGTGGCAGACTAGAGGCTGCAGGTTG			
5862	T	T	S	CTAGCAACCTGCAGCCTCTTGTTCCGTTGGTCCTGAAGTCAGGGGAGGGG			
5862	T	A	S	CTAGCAACCTGCAGCCTCTAGTTCCGTTGGTCCTGAAGTCAGGGGAGGGG			
5862	IS	[TA]		TACCCAGATGCCCAGAATGAGGTATCTGGGACCCTGACTGCCTAGCAACCTGCAGCCTCT[TA]GTTCCGTTGGTCCTGAAGTCAGGGGAGGGGCTGAGTCTGCA TGTGGAAGGGGGAAACTGA	ctg14391	11	
5925	I		A	CCACCCTGAGCAGCTCCCCTCCCA			
5925	P	C	A	ATGACGTGGCAGACCCCAACTCACAGGAATG			
5925	P	T	A	CGCGCCGAGGTCCAACTCACAGGAATG			
5925	T	C	A	CCTGCATTCCTGTGAGTTGGGGGGAGGGGAGCTGCTCAGGGTGGGC			
5925	T	T	A	CCTGCATTCCTGTGAGTTGGAGGGAGGGGAGCTGCTCAGGGTGGGC			

FIGURE 129B

				CAGGCCGTGCCCGCCCCAATCTGGGCACAGAGGCTGCCCACCCTGAGCAGCTCCCCTCCC[CT]CCAACTCACAGGAATGCAGGCACTCCACGATAGTGGTGGC			
5925	IS	[CT]		GTCGATGAAGTACCCCCCGC	ctg16400	17	
6010	I		S	ACCTGGATGAATCTACTGCAGTCCCACCACTTCT			
6010	P	G	S	CGCGCCGAGGCTAGCTGCGTGACCT			
6010	P	C	S	ATGACGTGGCAGACGTAGCTGCGTGACCT			
6010	T	G	S	CCCAAGGTCACGCAGCTAGGAAGTGGTGGGACTGCAGTAGATTCATCCAGGTCT			
6010	T	C	S	CCCAAGGTCACGCAGCTACGAAGTGGTGGGACTGCAGTAGATTCATCCAGGTCT			
6010	IS	[GC]		TGTGCATTTAACCTTATAGCCTCAGAGAGGTCAAGTGACTAGCCCAAGGTCACGCAGCTA[GC]GAAGTGGTGGGACTGCAGTAGATTCATCCAGGTCTGATGTGG GATCCTTTTGTTTCCTGC	ctg17731	1	
6023	I		S	AGGTGGGACTGCCATTCACACCCCTA			
6023	P	A	S	CGCGCCGAGGTCCCATCCTGACTCAC			
6023	P	G	S	ATGACGTGGCAGACCCCCATCCTGACTCAC			
6023	T	A	S	GAAGGTGAGTCAGGATGGGAAGGGGTGTGAATGGCAGTCCCACCTCC			
6023	T	G	S	GAAGGTGAGTCAGGATGGGGAGGGGTGTGAATGGCAGTCCCACCTCC			
6023	IS	[AG]		AGGAGGTCCAGCAAAGCAGGTTCCAGATGCCACCCTTGGAGGAAGGTGAGTCAGGATGGG[AG]AGGGGTGTGAATGGCAGTCCCACCTCCAGAGAGTAGCTCA GCTCAGCTTGAGACCTTCCA	ctg15944	11	
6051	I		S	GCACTACGGGCCTGGCCAGCTTA			
6051	P	G	S	ATGACGTGGCAGACCAGCAACATGAGATCGT			
6051	P	A	S	CGCGCCGAGGTAGCAACATGAGATCGTG			
6051	T	G	S	TGAGCACGATCTCATGTTGCTGAAGCTGGCCAGGCCCGTAGTGCTG			
6051	T	A	S	TGAGCACGATCTCATGTTGCTAAAGCTGGCCAGGCCCGTAGTGCTG			
6051	IS	[GA]		CCACCAGGGCTCAGGCCCCATCCTGCCAAGGCGAACGGATGAGCACGATCTCATGTTGCT[GA]AAGCTGGCCAGGCCCGTAGTGCTGGGGCCCCGCGTCCGGG CCCTGCAGCTTCCCTACCGC	ctg5212	19	KLK10
6053	I		S	CTGCCTTTTTTTCTCTGACTCACTTCAGAGACCCCAA			
6053	P	G	S	ATGACGTGGCAGACCGTGAGGAGCAGCC			
6053	P	A	S	CGCGCCGAGGTGTGAGGAGCAGCC			
6053	T	G	S	GCAAGGCTGCTCCTCACGTGGGGTCTCTGAAGTGAGTCAGAGAAAAAAAGGCAGAT			
6053	T	A	S	GCAAGGCTGCTCCTCACATGGGGTCTCTGAAGTGAGTCAGAGAAAAAAAGGCAGAT			
6053	IS	[GA]		TAAATAAATGAAGTCATTGCCCTGACCCACGCTTTCTTCCTGAGCAAGGCTGCTCCTCAC[GA]TGGGGTCTCTGAAGTGAGTCAGAGAAAAAAAGGCAGATTATGT TTTCAGAAATGGAAGCT			
6059	I		S	GCCAGCATCTTGGGGACGGTGGTGT			
6059	P	T	S	CGCGCCGAGGAAGGAGAAGCAGATGTCC			
6059	P	C	S	ATGACGTGGCAGACGAGGAGAAGCAGATGTC			
6059	T	T	S	TTGTGGACATCTGCTTCTCCTTCACCACCGTCCCCAAGATGCTGGCCA			
6059	T	C	S	TTGTGGACATCTGCTTCTCCTCCACCACCGTCCCCAAGATGCTGGCCA			
6059	IS	[TC]		TGCACACCCCCATGTACTTCTTCCTCAGCAACCTGTCTTTTGTGGACATCTGCTTCTCCT[TC]CACCACCGTCCCCAAGATGCTGGCCAATCACATACTCGAGACT CAGACCATCTCCTTCTG	ctg15053	16	OR1F8
6066	I		S	TGGAGAGCTTGGACTATATTTTCTGGGCAATGATGGCT			
6066	P	T	S	CGCGCCGAGGACCAACGTGATAAAGCC			
6066	P	C	S	ATGACGTGGCAGACGCCAACGTGATAAAGCC			
6066	T	T	S	AGCAGGCTTTATCACGTTGGTGCCATCATTGCCCAGAAAATATAGTCCAAGCTCTCCAGA			
6066	T	C	S	AGCAGGCTTTATCACGTTGGCGCCATCATTGCCCAGAAAATATAGTCCAAGCTCTCCAGA			
6066	IS	[TC]		GTTAAGCAACTCTCCTCACTGCTGTTGAGTCTATCCAGAAAGCAGGCTTTATCACGTTGG[TC]GCCATCATTGCCCAGAAAATATAGTCCAAGCTCTCCAGATGGA GGGACTTACATGTTCTC	ctg12387	2	
6083	I		A	AGACTGCTTCCCATCCTGCTACTGTCATCTCTTTGATACA			
6083	P	T	A	CGCGCCGAGGTTTCTCTTGTCTTAGAAGTTTTCT			
6083	P	C	A	ATGACGTGGCAGACCTTCTCTTGTCTTAGAAGTTTTC			
6083	T	T	A	TCTTAGAAAACTTCTAAGACAAGAGAAAGTATCAAAGAGATGACAGTAGCAGGATGGGAAGCAGTCTCT			
6083	T	C	A	TCTTAGAAAACTTCTAAGACAAGAGAAGGTATCAAAGAGATGACAGTAGCAGGATGGGAAGCAGTCTCT			
6083	IS	[TC]		ACAGAGTGATGCCCCTCCAAGAGACTGCTTCCCATCCTGCTACTGTCATCTCTTTGATAC[TC]TTCTCTTGTCTTAGAAGTTTTCTAAGATGAGCAGCATGTTTATC AAACAGAATTTTGTAG	ctg15907	6	
6091	I		S	AGCCAAAAGCATGAATTGGGAAATGAAGAATTAAAAAGTCATAT			
6091	P	C	S	ATGACGTGGCAGACGTTCAGATACCCAGTGTCT			
6091	P	T	S	CGCGCCGAGGATTCAGATACCCAGTGTCT			
6091	T	C	S	TATTAGACACTGGGTATCTGAACTATGACTTTTTAATTCTTCATTTCCCAATTCATGCTTTTGGCTAT			
6091	T	T	S	TATTAGACACTGGGTATCTGAATTATGACTTTTTAATTCTTCATTTCCCAATTCATGCTTTTGGCTAT			
6091	IS	[CT]		AGATTTTACACTGAGCAAACCACAAACATCATCTACTTTATTAGACACTGGGTATCTGAA[CT]TATGACTTTTTAATTCTTCATTTCCCAATTCATGCTTTTGGCTATT TCACTGTCTGTGAA	ctg13446	1	
6098	I		S	TGCTCTTCCAACCACAGAAAAACGGCCAGAAACT			
6098	P	G	S	CGCGCCGAGGCACCTCAACAGGAGTAC			
6098	P	C	S	ATGACGTGGCAGACGACCTCAACAGGAGTACG			
6098	T	G	S	TGGACGTACTCCTGTTGAGGTGGTTTCTGGCCGTTTTTCTGTGGTTGGAAGAGCACT			
6098	T	C	S	TGGACGTACTCCTGTTGAGGTCGTTTCTGGCCGTTTTTCTGTGGTTGGAAGAGCACT			
6098	IS	[GC]		CCCTAACTCAGATTCCAGCCCTGACGCTGATAGCCCCGTTGGACGTACTCCTGTTGAGGT[GC]GTTTCTGGCCGTTTTTCTGTGGTTGGAAGAGCACTGTCTGTC GTTCTCGCTCTGGAAACT	ctg22fin3	22	
6131	I		S	ACTCCAGCTTCCTGGTGCGTTTTCTAGCTACAT			
6131	P	G	S	ATGACGTGGCAGACCCTGTGCCCCACTAG			
6131	P	T	S	CGCGCCGAGGACTGTGCCCCACTAG			
6131	T	G	S	GAGCCTAGTGGGGCACAGGTGTAGCTAGAAAACGCACCAGGAAGCTGGAGTGT			
6131	T	T	S	GAGCCTAGTGGGGCACAGTTGTAGCTAGAAAACGCACCAGGAAGCTGGAGTGT			
6131	IS	[GT]		TAGATGGCTTGATAGGGAAGCAGGGCATAAGGAAGGCTAGAAGAGCCTAGTGGGGCACAG[GT]TGTAGCTAGAAAACGCACCAGGAAGCTGGAGTGTGGGTGCC AGATAATATAATGATGGGT	ctg15478	1	
6145	I		S	AGAGTTTTGAGGTAAGAACAGTGGGCTGTTCCAGTATCTT			
6145	P	G	S	ATGACGTGGCAGACCAGATTGCTTAGTCACGTT			
6145	P	T	S	CGCGCCGAGGAAGATTGCTTAGTCACGTTAT			
6145	T	G	S	TCCAATAACGTGACTAAGCAATCTGAGATACTGGAACAGCCCACTGTTCTTACCTCAAAACTCTTG			
6145	T	T	S	TCCAATAACGTGACTAAGCAATCTTAGATACTGGAACAGCCCACTGTTCTTACCTCAAAACTCTTG			
6145	IS	[GT]		TCCTTTTAGGCACTGGTGGCTTACATTAAGATTCAGTCCAATAACGTGACTAAGCAATCT[GT]AGATACTGGAACAGCCCACTGTTCTTACCTCAAAACTCTTGCGT AAAGCATCAACACCAA	ctg3461	17	
6146	I		A	GGGGTCAGCTGGGGTGATGGGGACT			
6146	P	A	A	CGCGCCGAGGATCAGTGGAGGATAGTGTG			
6146	P	G	A	ATGACGTGGCAGACGTCAGTGGAGGATAGTGT			
6146	T	A	A	TTCCCACACTATCCTCCACTGATGTCCCCATCACCCCAGCTGACCCCAA			
6146	T	G	A	TTCCCACACTATCCTCCACTGACGTCCCCATCACCCCAGCTGACCCCAA			
6146	IS	[AG]		AATATTGGGAGTTGGAGGGAATGGTGCAGTGTTGTTGGGGTCAGCTGGGGTGATGGGGAC[AG]TCAGTGGAGGATAGTGTGGGAATCCCTGAAGGGTAAGATC GTCTTGGGGATCTTGCCGCA	ctg16031	17	
6170	I		A	GTCTCTCGGAGATGTCTCGGCCCACCT			
6170	P	G	A	ATGACGTGGCAGACGTATCAGAGACCAGCCT			
6170	P	A	A	CGCGCCGAGGATATCAGAGACCAGCCTT			
6170	T	G	A	AAGAAAGGCTGGTCTCTGATACGGTGGGCCGAGACATCTCCGAGAGACTC			
6170	T	A	A	AAGAAAGGCTGGTCTCTGATATGGTGGGCCGAGACATCTCCGAGAGACTC			
6170	IS	[GA]		AGGATGACTGGGCTAGGATGGGGGCTTTGCATGAGTCTCTCGGAGATGTCTCGGCCCACC[GA]TATCAGAGACCAGCCTTTCTTCACCACCACTGTCAAAGTCCC TAAAATCTCATGGCCAGA	MULTIPLE	MULTIPLE	
6178	I		S	ATCTATTTCAGAATAAAGCAGGACAATAAATAAATATGGATAAATACATAAATAAATAGCT			
6178	P	C	S	ATGACGTGGCAGACGGATGAGTAGTAATGGAATAAACT			
6178	P	T	S	CGCGCCGAGGAGATGAGTAGTAATGGAATAAACTAA			
6178	T	C	S	GGGATTAGTTTATTCCATTACTACTCATCCGCTATTTATTTATGTATTTATCCATATTTATTTATTGTCCTGCTTTATTCTGAAATAGAT			
6178	T	T	S	GGGATTAGTTTATTCCATTACTACTCATCTGCTATTTATTTATGTATTTATCCATATTTATTTATTGTCCTGCTTTATTCTGAAATAGAT			

FIGURE 129B

				GAAACGTACAAGGAGTTAGCTAGTATTAGCAGGGATTAGTTTATTCCATTACTACTCATC[CT]GCTATTTATTTATGTATTTATCCATATTTATTTATTGTCCTGCTTT		
6178	IS	[CT]		ATTCTGAAATAGAT	ctg19247	7
6188	I		S	GAGGAGGGAGCTCTGCCATGGGCTTTAA		
6188	P	G	S	ATGACGTGGCAGACCTTTCACATGTTACATTCCAC		
6188	P	A	S	CGCGCCGAGGTTTTCACATGTTACATTCCAC		
6188	T	G	S	ACTTGTGGAATGTAACATGTGAAAGTAAAGCCCATGGCAGAGCTCCCTCCTCAG		
6188	T	A	S	ACTTGTGGAATGTAACATGTGAAAATAAAGCCCATGGCAGAGCTCCCTCCTCAG		
				CGAAGCCTCAAGGAAGGGATGCTTTTGTAAAACAAGACTTGTGGAATGTAACATGTGAAA[GA]TAAAGCCCATGGCAGAGCTCCCTCCTCAGCACACGGGGAGCA		
6188	IS	[GA]		GACAGGAAGTTTTTCCTC	ctg15438	8
6209	I		A	GGTCATGACCATGGTGATGTTTGGCTGGTAGAGAT		
6209	P	C	A	CGCGCCGAGGCAGTGCGACCCTGC		
6209	P	G	A	ATGACGTGGCAGACGAGTGCGACCCTGC		
6209	T	C	A	ACCAGCAGGGTCGCACTGTCTCTACCAGCCAAACATCACCATGGTCATGACCTC		
6209	T	G	A	ACCAGCAGGGTCGCACTCTCTCTACCAGCCAAACATCACCATGGTCATGACCTC		
				TTGAGCCCTCTGAATCGGGGATTCGAGGTCATGACCATGGTGATGTTTGGCTGGTAGAGA[CG]AGTGCGACCCTGCTGGTTGTTTCAAGCCAGTGCTGCTATGAT		
6209	IS	[CG]		GCCCACAGGGTAACAATT	ctg15144	12
6213	I		A	CCTGAGTCTCCCATGACACAGCAGCCTCTTTTT		
6213	P	A	A	CGCGCCGAGGATCCCATTGTTGATCAAGC		
6213	P	C	A	ATGACGTGGCAGACCTCCCATTGTTGATCAAGC		
6213	T	A	A	CTAGGCTTGATCAACAATGGGATAAAAGAGGCTGCTGTGTCATGGGAGACTCAGGGT		
6213	T	C	A	CTAGGCTTGATCAACAATGGGAGAAAAGAGGCTGCTGTGTCATGGGAGACTCAGGGT		
				CCTGTTTCTCCCATCACAAGCTGTGGACCCTGAGTCTCCCATGACACAGCAGCCTCTTTT[AC]TCCCATTGTTGATCAAGCCTAGGCCTACTCTGGTTTGCTTGGG		
6213	IS	[AC]		GCAGAAAGTCATGGCCA	ctg15842	19
6218	I		S	GGTTCTACTGTGACAATCAAAGGGCGACCACTTGA		
6218	P	G	S	ATGACGTGGCAGACCCTGTTTCTTGTGAGTACTC		
6218	P	A	S	CGCGCCGAGGTCTGTTTCTTGTGAGTACTC		
6218	T	G	S	CATGGAGTACTCACAAGAAACAGGCAAGTGGTCGCCCTTTGATTGTCACAGTAGAACCAG		
6218	T	A	S	CATGGAGTACTCACAAGAAACAGACAAGTGGTCGCCCTTTGATTGTCACAGTAGAACCAG		
				AAATATTCTTCCTCTTCTCCACCTCCCATCTTTGCACCATGGAGTACTCACAAGAAACAG[GA]CAAGTGGTCGCCCTTTGATTGTCACAGTAGAACCAGTAGACAAA		
6218	IS	[GA]		GAGGCAGCCTCTGTGT	ctg19262	19
6222	I		S	GCGACAGAGTGAGACTCTGTCTCAAAAAACAAAACCAAAAAGAAACT		
6222	P	G	S	CGCGCCGAGGCAAAGGAATGAGTGTGACT		
6222	P	C	S	ATGACGTGGCAGACGAAAGGAATGAGTGTGACTC		
6222	T	G	S	ATTTGAGTCACACTCATTCCTTTGGTTTCTTTTTGGTTTTGTTTTTTGAGACAGAGTCTCACTCTGTCGCCC		
6222	T	C	S	ATTTGAGTCACACTCATTCCTTTCGTTTCTTTTTGGTTTTGTTTTTTGAGACAGAGTCTCACTCTGTCGCCC		
				CATAGAGCTACACAGACATAGCTACACAGACATGCGAATTTGAGTCACACTCATTCCTTT[GC]GTTTCTTTTTGGTTTTGTTTTTTGAGACAGAGTCTCACTCTGTC		
6222	IS	[GC]		GCCCAGGCTGGAGTAC		
6231	I		A	CCCAGCAGGTTCAGTCAGGGACCCAT		
6231	P	C	A	CGCGCCGAGGCGCTCCGCACAGGY		
6231	P	G	A	ATGACGTGGCAGACGGCTCCGCACAGGY		
6231	T	C	A	AGGGCCTGTGCGGAGCGTGGGTCCCTGACTGAACCTGCTGGGCT		
6231	T	G	A	AGGGCCTGTGCGGAGCCTGGGTCCCTGACTGAACCTGCTGGGCT		
				GTGACCCCCTGAGCATCCTGATCGCAGGTGAGGAGCCCAGCAGGTTCAGTCAGGGACCCA[CG]GCTCCGCACAGGCCCTGCTGGGGGAGCCCAGGTGGTGATG		
6231	IS	[CG]		GCCAGGATGAGGGGTGGGGG	ctg16318	19
6243	I		A	AGGGACAATGTAGAAGCTCTATCTTTCTCCTTTTCTTTAAATGGAACTTAACTAGAAATT		
6243	P	G	A	ATGACGTGGCAGACGCACATAGAAGTAAGCAAAG		
6243	P	A	A	CGCGCCGAGGACACATAGAAGTAAGCAAAGG		
6243	T	G	A	ACAACCTTTGCTTACTTCTATGTGCATTTCTAGTTAAGTTCCATTTAAAGAAAAGGAGAAAGATAGAGCTTCTACATTGTCCCTG		
6243	T	A	A	ACAACCTTTGCTTACTTCTATGTGTATTTCTAGTTAAGTTCCATTTAAAGAAAAGGAGAAAGATAGAGCTTCTACATTGTCCCTG		
				CAGGGACAATGTAGAAGCTCTATCTTTCTCCTTTTCTTTAAATGGAACTTAACTAGAAAT[GA]CACATAGAAGTAAGCAAAGGTTGTTGATGAACCTTTAGAAAGTAT		
6243	IS	[GA]		TTATTATAAGAACCT	ctg13023	2
6247	I		S	CGGGCATTGGCTTACGTTGTCTGGTTTCTCTCT		
6247	P	T	S	CGCGCCGAGGAGGCAGATCTGTGCAT		
6247	P	C	S	ATGACGTGGCAGACGGGCAGATCTGTGCA		
6247	T	T	S	TCCCATGCACAGATCTGCCTGAGAGAAACCAGACAACGTAAGCCAATGCCCGTG		
6247	T	C	S	TCCCATGCACAGATCTGCCCGAGAGAAACCAGACAACGTAAGCCAATGCCCGTG		
				GTGCCGCCCCCAAAGCTGTGGAAGATGAGGAAGCCCTGCAGTCCCATGCACAGATCTGCC[TC]GAGAGAAACCAGACAACGTAAGCCAATGCCCGTGGGAGCCA		
6247	IS	[TC]		CACCACCAACCTCCACCAA	ctg22fin4	22
6258	I		S	TGGTTTCTTAAACTGTCCACAGAGGCATCTGCTTCTGA		
6258	P	A	S	CGCGCCGAGGTCGTCAGCCTACTCAC		
6258	P	G	S	ATGACGTGGCAGACCCGTCAGCCTACTCA		
6258	T	A	S	TTCTGTGAGTAGGCTGACGACAGAAGCAGATGCCTCTGTGGACAGTTTAAGAAACCACA		
6258	T	G	S	TTCTGTGAGTAGGCTGACGGCAGAAGCAGATGCCTCTGTGGACAGTTTAAGAAACCACA		
				TCTGCTCATGTAGAATGTACGAAAGGATCCTTTTGGTTGACTTCTGTGAGTAGGCTGACG[AG]CAGAAGCAGATGCCTCTGTGGACAGTTTAAGAAACCACAGTGC		
6258	IS	[AG]		TTTGGAGGAAAGGAAGA	ctg53	14
6272	I		A	GCTTTGGGTATGTGGCCTCTGACCAGCTGA		
6272	P	T	A	CGCGCCGAGGTGGCCTCCATTGCA		
6272	P	C	A	ATGACGTGGCAGACCGGCCTCCATTGCA		
6272	T	T	A	CACCTGCAATGGAGGCCACAGCTGGTCAGAGGCCACATACCCAAAGCAC		
6272	T	C	A	CACCTGCAATGGAGGCCGCAGCTGGTCAGAGGCCACATACCCAAAGCAC		
				GTAGGTCGCAGACACCACGTGTTGGACAGGTGCTTTGGGTATGTGGCCTCTGACCAGCTG[TC]GGCCTCCATTGCAGGTGCTCTCGGAACCCTGGCGTCTCTCC		
6272	IS	[TC]		ACCAGCCAGATCCCCCAAT	ctg22fin11	22
6277	I		S	GGGAGGAGTACAAAGGGGCGGTTGCAGC		
6277	P	C	S	ATGACGTGGCAGACGAGAAGAGCTGGGCC		
6277	P	A	S	CGCGCCGAGGTAGAAGAGCTGGGCC		
6277	T	C	S	GCATGGCCCAGCTCTTCTCCTGCAACCGCCCCTTTGTACTCCTCCCCT		
6277	T	A	S	GCATGGCCCAGCTCTTCTACTGCAACCGCCCCTTTGTACTCCTCCCCT		
				TAAATAAGAATAATCAGCATGGCCCAGAAATAGGAATAATCAGCATGGCCCAGCTCTTCT[CA]CTGCAACCGCCCCTTTGTACTCCTCCCCTGCATGGTGGAACAC		
6277	IS	[CA]		TGCTGGGCTCTGGGCAT	ctg16105	5
6284	I		A	CCTCCCTGCAGGAACGCTGGGGT		
6284	P	G	A	ATGACGTGGCAGACGAATCAGCGGCAGGY		
6284	P	A	A	CGCGCCGAGGAAATCAGCGGCAGGY		
6284	T	G	A	GCCCCCTGCCGCTGATTCCCCCAGCGTTCCTGCAGGGAGGTT		
6284	T	A	A	GCCCCCTGCCGCTGATTTCCCCAGCGTTCCTGCAGGGAGGTT		
				ACACAGTGAGGGGAGGCCATTGTGCGCCCAGACACAAACCTCCCTGCAGGAACGCTGGGG[GA]AATCAGCGGCAGGGGGCGCTCAGGAGCCACTGATCAGAGT		
6284	IS	[GA]		CAGCCCCGGAGGCAGGTGCA	MULTIPLE	MULTIPLE
6308	I		S	CTGCTTTGGGAGCTTTCCCTTTCCCAGAACTTTT		
6308	P	C	S	ATGACGTGGCAGACGTAGTAGCCCTAGAAGAACA		
6308	P	T	S	CGCGCCGAGGATAGTAGCCCTAGAAGAACA		
6308	T	C	S	TCTCTGTTCTTCTAGGGCTACTACAAAGTTCTGGGAAAGGGAAAGCTCCCAAAGCAGCC		
6308	T	T	S	TCTCTGTTCTTCTAGGGCTACTATAAAGTTCTGGGAAAGGGAAAGCTCCCAAAGCAGCC		
				GCAGTTGGTACCTACTACAGTGTATTGTAAACTTTTTTCTCTGTTCTTCTAGGGCTACTA[CT]AAAGTTCTGGGAAAGGGAAAGCTCCCAAAGCAGCCTGTCATCGT		
6308	IS	[CT]		GAAGGCCAAATTCTTC	ctg5305	11
6319	I		S	GAGGCGGCCGTGGCGCAGT		
6319	P	T	S	CGCGCCGAGGAGCGATCACCGCAT		
6319	P	C	S	ATGACGTGGCAGACGGCGATCACCGCA		
6319	T	T	S	AAGCATGCGGTGATCGCTCTGCGCCACGGCCGCCTCTG		
6319	T	C	S	AAGCATGCGGTGATCGCCCTGCGCCACGGCCGCCTCTG		

FIGURE 129B

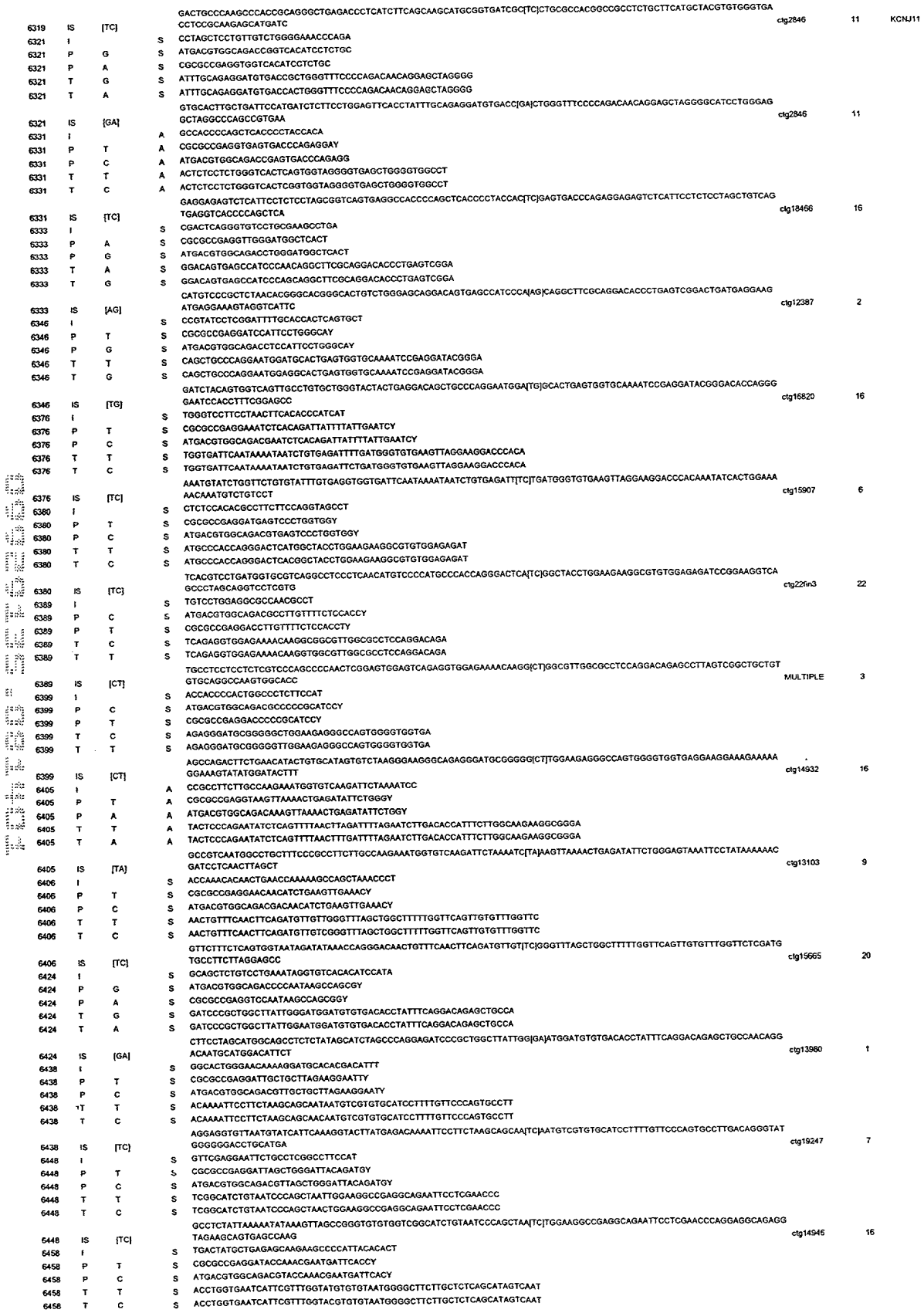

GACTGCCCAAGCCCACCGCAGGGCTGAGACCCTCATCTTCAGCAAGCATGCGGTGATCGC[TC]CTGCGCCACGGCCGCCTCTGCTTCATGCTACGTGTGGGTGA
CCTCCGCAAGAGCATGATC
ctg2846
11
KCNJ11
6319 IS [TC]
6321 I S CCTAGCTCCTGTTGTCTGGGGAAACCCAGA
6321 P G S ATGACGTGGCAGACCGGTCACATCCTCTGC
6321 P A S CGCGCCGAGGTGGTCACATCCTCTGC
6321 T G S ATTTGCAGAGGATGTGACCGCTGGGTTTCCCCAGACAACAGGAGCTAGGGG
6321 T A S ATTTGCAGAGGATGTGACCACTGGGTTTCCCCAGACAACAGGAGCTAGGGG
GTGCACTTGCTGATTCCATGATCTCTTCCTGGAGTTCACCTATTTGCAGAGGATGTGACC[GA]CTGGGTTTCCCCAGACAACAGGAGCTAGGGGCATCCTGGGAG
GCTAGGCCCAGCCGTGAA
ctg2846
11
6321 IS [GA]
6331 I A GCCACCCCAGCTCACCCCTACCACA
6331 P T A CGCGCCGAGGTGAGTGACCCAGAGGAY
6331 P C A ATGACGTGGCAGACCGAGTGACCCAGAGG
6331 T T A ACTCTCCTCTGGGTCACTCAGTGGTAGGGGTGAGCTGGGGTGGCCT
6331 T C A ACTCTCCTCTGGGTCACTCGGTGGTAGGGGTGAGCTGGGGTGGCCT
GAGGAGAGTCTCATTCCTCTCCTAGCGGTCAGTGAGGCCACCCCAGCTCACCCCTACCAC[TC]GAGTGACCCAGAGGAGAGTCTCATTCCTCTCCTAGCTGTCAG
TGAGGTCACCCCAGCTCA
ctg18466
16
6331 IS [TC]
6333 I S CGACTCAGGGTGTCCTGCGAAGCCTGA
6333 P A S CGCGCCGAGGTTGGGATGGCTCACT
6333 P G S ATGACGTGGCAGACCTGGGATGGCTCACT
6333 T A S GGACAGTGAGCCATCCCAACAGGCTTCGCAGGACACCCTGAGTCGGA
6333 T G S GGACAGTGAGCCATCCCAGCAGGCTTCGCAGGACACCCTGAGTCGGA
CATGTCCCGCTCTAACACGGGCACGGGCACTGTCTGGGAGCAGGACAGTGAGCCATCCCA[AG]CAGGCTTCGCAGGACACCCTGAGTCGGACTGATGAGGAAG
ATGAGGAAAGTAGGTCATTC
ctg12387
2
6333 IS [AG]
6346 I S CCGTATCCTCGGATTTTGCACCACTCAGTGCT
6346 P T S CGCGCCGAGGATCCATTCCTGGGCAY
6346 P G S ATGACGTGGCAGACCTCCATTCCTGGGCAY
6346 T T S CAGCTGCCCAGGAATGGATGCACTGAGTGGTGCAAAATCCGAGGATACGGGA
6346 T G S CAGCTGCCCAGGAATGGAGGCACTGAGTGGTGCAAAATCCGAGGATACGGGA
GATCTACAGTGGTCAGTTGCCTGTGCTGGGTACTACTGAGGACAGCTGCCCAGGAATGGA[TG]GCACTGAGTGGTGCAAAATCCGAGGATACGGGACACCAGGG
GAATCCACCTTTCGGAGCC
ctg16820
16
6346 IS [TG]
6376 I S TGGGTCCTTCCTAACTTCACACCCATCAT
6376 P T S CGCGCCGAGGAAATCTCACAGATTATTTTATTGAATCY
6376 P C S ATGACGTGGCAGACGAATCTCACAGATTATTTTATTGAATCY
6376 T T S TGGTGATTCAATAAAATAATCTGTGAGATTTTGATGGGTGTGAAGTTAGGAAGGACCCACA
6376 T C S TGGTGATTCAATAAAATAATCTGTGAGATTCTGATGGGTGTGAAGTTAGGAAGGACCCACA
AAATGTATCTGGTTCTGTGTATTTGTGAGGTGGTGATTCAATAAAATAATCTGTGAGATT[TC]TGATGGGTGTGAAGTTAGGAAGGACCCACAAATATCACTGGAAA
AACAAATGTCTGTCCT
ctg15907
6
6376 IS [TC]
6380 I S CTCTCCACACGCCTTCTTCCAGGTAGCCT
6380 P T S CGCGCCGAGGATGAGTCCCTGGTGGY
6380 P C S ATGACGTGGCAGACGTGAGTCCCTGGTGGY
6380 T T S ATGCCCACCAGGGACTCATGGCTACCTGGAAGAAGGCGTGTGGAGAGAT
6380 T C S ATGCCCACCAGGGACTCACGGCTACCTGGAAGAAGGCGTGTGGAGAGAT
TCACGTCCTGATGGTGCGTCAGGCCTCCCTCAACATGTCCCCATGCCCACCAGGGACTCA[TC]GGCTACCTGGAAGAAGGCGTGTGGAGAGATCCGGAAGGTCA
GCCCTAGCAGGTCCTCGTG
ctg22fin3
22
6380 IS [TC]
6389 I S TGTCCTGGAGGCGCCAACGCCT
6389 P C S ATGACGTGGCAGACGCCTTGTTTTCTCCACCY
6389 P T S CGCGCCGAGGACCTTGTTTTCTCCACCTY
6389 T C S TCAGAGGTGGAGAAAACAAGGCGGCGTTGGCGCCTCCAGGACAGA
6389 T T S TCAGAGGTGGAGAAAACAAGGTGGCGTTGGCGCCTCCAGGACAGA
TGCCTCCTCCTCTCGTCCCAGCCCCAACTCGGAGTGGAGTCAGAGGTGGAGAAAACAAGG[CT]GGCGTTGGCGCCTCCAGGACAGAGCCTTAGTCGGCTGCTGT
GTGCAGGCCAAGTGGCACC
MULTIPLE
3
6389 IS [CT]
6399 I S ACCACCCCACTGGCCCTCTTCCAT
6399 P C S ATGACGTGGCAGACGCCCCCGCATCCY
6399 P T S CGCGCCGAGGACCCCCGCATCCY
6399 T C S AGAGGGATGCGGGGGCTGGAAGAGGGCCAGTGGGGTGGTGA
6399 T T S AGAGGGATGCGGGGGTTGGAAGAGGGCCAGTGGGGTGGTGA
AGCCAGACTTCTGAACATACTGTGCATAGTGTCTAAGGGAAGGGCAGAGGGATGCGGGGG[CT]TGGAAGAGGGCCAGTGGGGTGGTGAGGAAGGAAAGAAAAA
GGAAAGTATATGGATACTTT
ctg14932
16
6399 IS [CT]
6405 I A CCGCCTTCTTGCCAAGAAATGGTGTCAAGATTCTAAAATCC
6405 P T A CGCGCCGAGGTAAGTTAAAACTGAGATATTCTGGGY
6405 P A A ATGACGTGGCAGACAAAGTTAAAACTGAGATATTCTGGY
6405 T T A TACTCCCAGAATATCTCAGTTTTAACTTAGATTTTAGAATCTTGACACCATTTCTTGGCAAGAAGGCGGGA
6405 T A A TACTCCCAGAATATCTCAGTTTTAACTTTGATTTTAGAATCTTGACACCATTTCTTGGCAAGAAGGCGGGA
GCCGTCAATGGCCTGCTTTCCCGCCTTCTTGCCAAGAAATGGTGTCAAGATTCTAAAATC[TA]AAGTTAAAACTGAGATATTCTGGGAGTAAATTCCTATAAAAAAC
GATCCTCAACTTAGCT
ctg13103
9
6405 IS [TA]
6406 I S ACCAAACACAACTGAACCAAAAAGCCAGCTAAACCCT
6406 P T S CGCGCCGAGGAACAACATCTGAAGTTGAAACY
6406 P C S ATGACGTGGCAGACGACAACATCTGAAGTTGAAACY
6406 T T S AACTGTTTCAACTTCAGATGTTGTTGGGTTTAGCTGGCTTTTTGGTTCAGTTGTGTTTGGTTC
6406 T C S AACTGTTTCAACTTCAGATGTTGTCGGGTTTAGCTGGCTTTTTGGTTCAGTTGTGTTTGGTTC
GTTCTTTCTCAGTGGTAATAGATATAAACCAGGGACAACTGTTTCAACTTCAGATGTTGT[TC]GGGTTTAGCTGGCTTTTTGGTTCAGTTGTGTTTGGTTCTCGATG
TGCCTTCTTAGGAGCC
ctg15665
20
6406 IS [TC]
6424 I S GCAGCTCTGTCCTGAAATAGGTGTCACACATCCATA
6424 P G S ATGACGTGGCAGACCCCAATAAGCCAGCGY
6424 P A S CGCGCCGAGGTCCAATAAGCCAGCGGY
6424 T G S GATCCCGCTGGCTTATTGGGATGGATGTGTGACACCTATTTCAGGACAGAGCTGCCA
6424 T A S GATCCCGCTGGCTTATTGGAATGGATGTGTGACACCTATTTCAGGACAGAGCTGCCA
CTTCCTAGCATGGCAGCCTCTCTATAGCATCTAGCCCAGGAGATCCCGCTGGCTTATTGG[GA]ATGGATGTGTGACACCTATTTCAGGACAGAGCTGCCAACAGG
ACAATGCATGGACATTCT
ctg13980
1
6424 IS [GA]
6438 I S GGCACTGGGAACAAAAGGATGCACACGACATTT
6438 P T S CGCGCCGAGGATTGCTGCTTAGAAGGAATTY
6438 P C S ATGACGTGGCAGACGTTGCTGCTTAGAAGGAATY
6438 T T S ACAAAATTCCTTCTAAGCAGCAATAATGTCGTGTGCATCCTTTTGTTCCCAGTGCCTT
6438 T C S ACAAAATTCCTTCTAAGCAGCAACAATGTCGTGTGCATCCTTTTGTTCCCAGTGCCTT
AGGAGGTGTTAATGTATCATTCAAAGGTACTTATGAGACAAAATTCCTTCTAAGCAGCAA[TC]AATGTCGTGTGCATCCTTTTGTTCCCAGTGCCTTGACAGGGTAT
GGGGGGACCTGCATGA
ctg19247
7
6438 IS [TC]
6448 I S GTTCGAGGAATTCTGCCTCGGCCTTCCAT
6448 P T S CGCGCCGAGGATTAGCTGGGATTACAGATGY
6448 P C S ATGACGTGGCAGACGTTAGCTGGGATTACAGATGY
6448 T T S TCGGCATCTGTAATCCCAGCTAATTGGAAGGCCGAGGCAGAATTCCTCGAACCC
6448 T C S TCGGCATCTGTAATCCCAGCTAACTGGAAGGCCGAGGCAGAATTCCTCGAACCC
GCCTCTATTAAAAATATAAAGTTAGCCGGGTGTGTGGTCGGCATCTGTAATCCCAGCTAA[TC]TGGAAGGCCGAGGCAGAATTCCTCGAACCCAGGAGGCAGAGG
TAGAAGCAGTGAGCCAAG
ctg14946
16
6448 IS [TC]
6458 I S TGACTATGCTGAGAGCAAGAAGCCCCATTACACACT
6458 P T S CGCGCCGAGGATACCAAACGAATGATTCACCY
6458 P C S ATGACGTGGCAGACGTACCAAACGAATGATTCACY
6458 T T S ACCTGGTGAATCATTCGTTTGGTATGTGTGTAATGGGGCTTCTTGCTCTCAGCATAGTCAAT
6458 T C S ACCTGGTGAATCATTCGTTTGGTACGTGTGTAATGGGGCTTCTTGCTCTCAGCATAGTCAAT

FIGURE 129B

				CTCAACTTGCCCCCAGCTCCATTATCCTCAAAACAAACCTGGTGAATCATTCGTTTGGTA[TC]GTGTGTAATGGGGCTTCTTGCTCTCAGCATAGTCAATGTATATT			
6458	IS	[TC]		TCATCAGCGGTTCTCT	ctg14243	19	
6491	I		S	CCTTAGTTCCACTAAAATGTAACCACAGTCTTCCTTCTTAACATAGCCATAAT			
6491	P	C	S	ATGACGTGGCAGACGTCCAAGTAAAACCTGTATATATG			
6491	P	T	S	CGCGCCGAGGATCCAAGTAAAACCTGTATATATGT			
6491	T	C	S	TGATACATATATACAGGTTTTACTTGGACTTATGGCTATGTTAAGAAGGAAGACTGTGGTTACATTTTAGTGGAACTAAGGAA			
6491	T	T	S	TGATACATATATACAGGTTTTACTTGGATTTATGGCTATGTTAAGAAGGAAGACTGTGGTTACATTTTAGTGGAACTAAGGAA			
6491	IS	[CT]		GGTTGCAAAAACATTTGTGTTGTATTACTCAGTGATACATATATACAGGTTTTACTTGGA[CT]TTATGGCTATGTTAAGAAGGAAGACTGTGGTTACATTTTAGTGGA ACTAAGGAATACTAC	ctg15064	7	
6514	I		A	TGCATTCTGGTTTTATAAGGAATTTGCAGGGGCAGCT			
6514	P	A	A	CGCGCCGAGGAGGACTAAGCATTTTTCATTATAC			
6514	P	G	A	ATGACGTGGCAGACGGGACTAAGCATTTTTCATTATAC			
6514	T	A	A	ACATGTATAATGAAAAATGCTTAGTCCTGCTGCCCCTGCAAATTCCTTATAAAACCAGAATGCATC			
6514	T	G	A	ACATGTATAATGAAAAATGCTTAGTCCCGCTGCCCCTGCAAATTCCTTATAAAACCAGAATGCATC			
6514	IS	[AG]		TATAAAACTTGCAAATATAAAAGATGCATTCTGGTTTTATAAGGAATTTGCAGGGGCAGC[AG]GGACTAAGCATTTTTCATTATACATGTTTTGCCAGTGACTTTGTA GAACAGGGGTCAAGA	ctg14946	16	
6524	I		S	ACCAAATGGCAGCCGCCCCGACT			
6524	P	T	S	CGCGCCGAGGAGCTCCCCAATCCC			
6524	P	C	S	ATGACGTGGCAGACGGCTCCCCAATCCC			
6524	T	T	S	TGTGGGGATTGGGGAGCTGTCGGGGCGGCTGCCATTTGGTAG			
6524	T	C	S	TGTGGGGATTGGGGAGCCGTCGGGGCGGCTGCCATTTGGTAG			
6524	IS	[TC]		TGGAAGAGATTTGACGGTGTAGTGTCTTCAAGCTTGCTTTTTGTGTGGGGATTGGGGAGC[TC]GTCGGGGCGGCTGCCATTTGGTAGCTGTTGAGGGAGTTGAG AGGGAGCGTATTGTGCGGA	ctg15128	17	
6532	I		S	CATGAAGAATGAGTATTGAAGCACGTAAGAACACAATGCT			
6532	P	T	S	CGCGCCGAGGATATGTTATTGCAATGTACAGATTAC			
6532	P	C	S	ATGACGTGGCAGACGTATGTTATTGCAATGTACAGATT			
6532	T	T	S	AACTGTAATCTGTACATTGCAATAACATATGCATTGTGTTCTTACGTGCTTCAATACTCATTCTTCATGTA			
6532	T	C	S	AACTGTAATCTGTACATTGCAATAACATACGCATTGTGTTCTTACGTGCTTCAATACTCATTCTTCATGTA			
6532	IS	[TC]		CACTCCTTCTTTCTTCTTGGACATTTAACTGAACTGTAATCTGTACATTGCAATAACATA[TC]GCATTGTGTTCTTACGTGCTTCAATACTCATTCTTCATGTAAACAT ACTCATACATGTAT	ctg11	15	
6533	I		A	CAAGGGTTGAGGAAGGAGCAATGGTTTGGGATA			
6533	P	C	A	ATGACGTGGCAGACCAAGAGCCCAAGGATCA			
6533	P	T	A	CGCGCCGAGGTAAGAGCCCAAGGATCAG			
6533	T	C	A	AGTACTGATCCTTGGGCTCTTGATCCCAAACCATTGCTCCTTCCTCAACCCTTGGG			
6533	T	T	A	AGTACTGATCCTTGGGCTCTTAATCCCAAACCATTGCTCCTTCCTCAACCCTTGGG			
6533	IS	[CT]		GGTCCTGGCCAAGAACCCAACTCTCACCCAAGGGTTGAGGAAGGAGCAATGGTTTGGGAT[CT]AAGAGCCCAAGGATCAGTACTACCACTGGTCCTCAAGCATAT CTTGTTCCCTCTTAGCTC	ctg22fin4	22	
6534	I		A	TGTGAACGCTACTTATGTGAACGTAAAATGTGTCGCTCCT			
6534	P	A	A	CGCGCCGAGGATATCCTTCTCTGTTGTCATC			
6534	P	G	A	ATGACGTGGCAGACGTATCCTTCTCTGTTGTCATC			
6534	T	A	A	TTCTGATGACAACAGAGAAGGATATGGAGCGACACATTTTACGTTCACATAAGTAGCGTTCACATG			
6534	T	G	A	TTCTGATGACAACAGAGAAGGATACGGAGCGACACATTTTACGTTCACATAAGTAGCGTTCACATG			
6534	IS	[AG]		CATTGGGGAGCACTATGTCCATGTGAACGCTACTTATGTGAACGTAAAATGTGTCGCTCC[AG]TATCCTTCTCTGTTGTCATCAGAAGATAACGCTGATGATGAGG TGGACACACGACCAGCC	ctg25099	7	MET
6535	I		A	AGATGATTCTGAACAGAGAAACAACTAATTCCTAAGTTTACATTTTCATAGTATATCATAA			
6535	P	T	A	CGCGCCGAGGTACATTTCTTTTTCAGGTCTTTG			
6535	P	C	A	ATGACGTGGCAGACCACATTTCTTTTTCAGGTCTTT			
6535	T	T	A	AAAACAAAGACCTGAAAAAGAAATGTATATGATATACTATGAAAATGTAAACTTAGGAATTAGTTGTTTCTCTGTTCAGAATCATCT			
6535	T	C	A	AAAACAAAGACCTGAAAAAGAAATGTGTATGATATACTATGAAAATGTAAACTTAGGAATTAGTTGTTTCTCTGTTCAGAATCATCT			
6535	IS	[TC]		AGATGATTCTGAACAGAGAAACAACTAATTCCTAAGTTTACATTTTCATAGTATATCATA[TC]ACATTTCTTTTTCAGGTCTTTGTTTTGGGGTAATGGGAAAAACAAT AGTGCTGTTTTAAA	ctg25099	7	
6536	I		A	GGATAACGCGCCCTCCTCATCACCCATATCA			
6536	P	C	A	ATGACGTGGCAGACCCTGCTTCTCCTTTATAAATTC			
6536	P	T	A	CGCGCCGAGGTCTGCTTCTCCTTTATAAATTCC			
6536	T	C	A	GTTTGGAATTTATAAAGGAGAAGCAGGGATATGGGTGATGAGGAGGGCGCGTTATCCGA			
6536	T	T	A	GTTTGGAATTTATAAAGGAGAAGCAGAGATATGGGTGATGAGGAGGGCGCGTTATCCGA			
6536	IS	[CT]		TCACAAAGTCTCTCCCAGCATGCCCGCTTCGGATAACGCGCCCTCCTCATCACCCATATC[CT]CTGCTTCTCCTTTATAAATTCCAAACAGAAGCAACAATAATCCC AACCATCCTGGAATGC	ctg17465	16	
6547	I		S	ACACCTATTGGTTGTGATGCCAAGTAAGTGAGACTTTTCACTTTTATTTTATTGC			
6547	P	A	S	CGCGCCGAGGTATGTACATTATGTTTCAGTAAGTCT			
6547	P	C	S	ATGACGTGGCAGACGATGTACATTATGTTTCAGTAAGTC			
6547	T	A	S	AGAGAGACTTACTGAAACATAATGTACATACAATAAAATAAAAGTGAAAAAGTCTCACTTACTTGGCATCACAACCAATAGGTGTGA			
6547	T	C	S	AGAGAGACTTACTGAAACATAATGTACATCCAATAAAATAAAAGTGAAAAAGTCTCACTTACTTGGCATCACAACCAATAGGTGTGA			
6547	IS	[AC]		ATATTACATACACTGTATGTTTTACATGCTAAGAGAGACTTACTGAAACATAATGTACAT[AC]CAATAAAATAAAAGTGAAAAAGTCTCACTTACTTGGCATCACAACC AATAGGTGTGAAGT	ctg15064	7	
6548	I		A	ACTTTGTAAACGTTTTCTTCATATAAACTCCATTTCTAAAAAGTAAAAAACACTATGTTA			
6548	P	C	A	ATGACGTGGCAGACCTGAGTCTCCTTTGTCATAAA			
6548	P	T	A	CGCGCCGAGGTTGAGTCTCCTTTGTCATAAA			
6548	T	C	A	CCTGTTTATGACAAAGGAGACTCAGAACATAGTGTTTTTTACTTTTTAGAAATGGAGTTTATATGAAGAAAACGTTTACAAAGTA			
6548	T	T	A	CCTGTTTATGACAAAGGAGACTCAAAACATAGTGTTTTTTACTTTTTAGAAATGGAGTTTATATGAAGAAAACGTTTACAAAGTA			
6548	IS	[CT]		TACTTTGTAAACGTTTTCTTCATATAAACTCCATTTCTAAAAAGTAAAAAACACTATGTT[CT]TGAGTCTCCTTTGTCATAAACAGGGATCATACAGAAAAGAGCAAGA ATTAAAATGTATAG			
6554	I		A	CCCAGCTTTGTAACTTCCCATGTGAGTGACCATATCAAATCAAATTATTTAACA			
6554	P	T	A	CGCGCCGAGGTACACACTGTTTCCGTTATC			
6554	P	C	A	ATGACGTGGCAGACCACACACTGTTTCCGTTA			
6554	T	T	A	AGAAGATAACGGAAACAGTGTGTAGTTAAATAATTTGATTTGATATGGTCACTCACATGGGAAGTTACAAAGCTGGGAT			
6554	T	C	A	AGAAGATAACGGAAACAGTGTGTGGTTAAATAATTTGATTTGATATGGTCACTCACATGGGAAGTTACAAAGCTGGGAT			
6554	IS	[TC]		TTTGCATCCCAGCTTTGTAACTTCCCATGTGAGTGACCATATCAAATCAAATTATTTAAC[TC]ACACACTGTTTCCGTTATCTTCTCTAAAATCTCATTGTGTTGTCAT AAGAATTAGGTTAT	ctg25099	7	
6558	I		S	CGAAGTTGTACACAAGACCAGTTTTATCTAGCTTAAAAGTTAAGGGCCTTATATGC			
6558	P	C	S	ATGACGTGGCAGACGACAACTATGGACTGCATT			
6558	P	A	S	CGCGCCGAGGTACAACTATGGACTGCATTTAA			
6558	T	C	S	CTCTTTAAATGCAGTCCATAGTTGTCCATATAAGGCCCTTAACTTTTAAGCTAGATAAAACTGGTCTTGTGTACAACTTCGGA			
6558	T	A	S	CTCTTTAAATGCAGTCCATAGTTGTACATATAAGGCCCTTAACTTTTAAGCTAGATAAAACTGGTCTTGTGTACAACTTCGGA			
6558	IS	[CA]		TCTGTTAACTATTAGAAGCTTTTAATATAGGAATTCTCTTTAAATGCAGTCCATAGTTGT[CA]CATATAAGGCCCTTAACTTTTAAGCTAGATAAAACTGGTCTTGTGT ACAACTTCGGAATT	ctg14932	16	
6567	I		S	CGGAGCCCTTAACCCAGGGGGAACAGT			
6567	P	G	S	CGCGCCGAGGCAGGGAGCTTGTGC			
6567	P	C	S	ATGACGTGGCAGACGAGGGAGCTTGTGCC			
6567	T	G	S	GACAGGCACAAGCTCCCTGCTGTTCCCCCTGGGTTAAGGGCTCCGGT			
6567	T	C	S	GACAGGCACAAGCTCCCTCCTGTTCCCCCTGGGTTAAGGGCTCCGGT			
6567	IS	[GC]		AGGGGATGTTTGAAGTGGGTTTTGAAGGATGCATAGGAGTTTGACAGGCACAAGCTCCCT[GC]CTGTTCCCCCTGGGTTAAGGGCTCCGGTCAGTTCTTGCAGG GATGGTCACCTCCCAGAGT	ctg_na	NA	
6573	I		S	GCCCCGGGGGTCCGCCCT			
6573	P	C	S	ATGACGTGGCAGACGCCCACATCCTGAGC			
6573	P	T	S	CGCGCCGAGGACCCACATCCTGAGC			
6573	T	C	S	AGGAGCTCAGGATGTGGGCGGGCGGACCCCCGGGGCTG			
6573	T	T	S	AGGAGCTCAGGATGTGGGTGGGCGGACCCCCGGGGCTG			

FIGURE 129B

				GCCAGAGCCAGCAGAGCAGGGCAAGCAGGGCCTGTGGGGGAGAGGAGCTCAGGATGTGGG[CT]GGGCGGACCCCCGGGGCTGGGGAGCAGGGCAGGCAGCC		
6573	IS	[CT]		GCCACTGTCGGGAGCTTACCTG	ctg18466	16
6574	I		S	GGCCTTCCAGAGCCTCCCACCCT		
6574	P	C	S	ATGACGTGGCAGACGCACAGAGGACACAC		
6574	P	T	S	CGCGCCGAGGACACAGAGGACACACC		
6574	T	C	S	GGCGGGTGTGTCCTCTGTGCGGGTGGGAGGCTCTGGAAGGCCCG		
6574	T	T	S	GGCGGGTGTGTCCTCTGTGTGGGTGGGAGGCTCTGGAAGGCCCG		
				GGCGCAAGGACAGGGACGTGGAACCAGAGGGGCCCTGCCTGGGCGGGTGTGTCCTCTGTG[CT]GGGTGGGAGGCTCTGGAAGGCCCGCCTCTGTTGTGGGGT		
6574	IS	[CT]		TTGTTCCCAGACGAATTGCGC	ctg19148	19
6586	I		A	TGACCCTCAGGGCCCAGGTGACACA		
6586	P	T	A	CGCGCCGAGGTAACCCAGCTTAGACTTGA		
6586	P	C	A	ATGACGTGGCAGACCAACCCAGCTTAGACTTG		
6586	T	T	A	GGAATCAAGTCTAAGCTGGGTTAGTGTCACCTGGGCCCTGAGGGTCATG		
6586	T	C	A	GGAATCAAGTCTAAGCTGGGTTGGTGTCACCTGGGCCCTGAGGGTCATG		
				ATTGGGTCTCAACATGGGTATGAATTTGCACCAACATGACCCTCAGGGCCCAGGTGACAC[TC]AACCCAGCTTAGACTTGATTCCTCTGCCAACCTACCAAGCTCA		
6586	IS	[TC]		TCCACAGCATTGACATC	ctg18433	19
6592	I		A	GCTGAAGGATTTAGATTGGCTAGGAAGAGCTAGAGGCAAT		
6592	P	A	A	CGCGCCGAGGAGAGACCTTGTAGGCC		
6592	P	G	A	ATGACGTGGCAGACGGAGACCTTGTAGGCC		
6592	T	A	A	CCAAGGCCTACAAGGTCTCTTTGCCTCTAGCTCTTCCTAGCCAATCTAAATCCTTCAGCAT		
6592	T	G	A	CCAAGGCCTACAAGGTCTCCTTGCCTCTAGCTCTTCCTAGCCAATCTAAATCCTTCAGCAT		
				GGCAGATTCATTTGGCGGCATGCTGAAGGATTTAGATTGGCTAGGAAGAGCTAGAGGCAA[AG]GAGACCTTGTAGGCCTTGGTACTTTTGAAGGGGACATGCAAG		
6592	IS	[AG]		AAGGGCTGGGGGGTGCCA	ctg15944	11
6608	I		A	GCCCAGGGCCTGTCCTCGCAT		
6608	P	A	A	CGCGCCGAGGAGGTTGGAGCACTGC		
6608	P	G	A	ATGACGTGGCAGACGGGTTGGAGCACTG		
6608	T	A	A	TGAGGCAGTGCTCCAACCTTGCGAGGACAGGCCCTGGGCTG		
6608	T	G	A	TGAGGCAGTGCTCCAACCCTGCGAGGACAGGCCCTGGGCTG		
				AGCTTCCCCATCTGTGAACAGGGAGACTGGGCGTCACCCAGCCCAGGGCCTGTCCTCGCA[AG]GGTTGGAGCACTGCCTCATGCCTCTTCTTCTGTCTCCGCAG		
6608	IS	[AG]		CCAAGGACTACGAGAACGC	ctg16508	19
6641	I		A	GGCTCTTTTCTCTTTATTCCTTGGCTGGAACCGTCAA		
6641	P	C	A	ATGACGTGGCAGACCCCTGCCTGGCAY		
6641	P	T	A	CGCGCCGAGGTCCTGCCTGGCACY		
6641	T	C	A	CTCTGTGCCAGGCAGGGTGACGGTTCCAGCCAAGGAATAAAGAGAAAAGAGCCTT		
6641	T	T	A	CTCTGTGCCAGGCAGGATGACGGTTCCAGCCAAGGAATAAAGAGAAAAGAGCCTT		
				TCCTGCCAGGGTGGCCACCTCCAAGGCTCTTTTCTCTTTATTCCTTGGCTGGAACCGTCA[CT]CCTGCCTGGCACAGAGAAGGGCTTAGTGAGGTTTGTGGGGGT		
6641	IS	[CT]		GAACTGAGCATTCTCCTG		
6660	I		S	CAACGCGTTCTTCCCAAAAAGAGGGGAGCT		
6660	P	T	S	CGCGCCGAGGAGGGCGACATCATGGY		
6660	P	C	S	ATGACGTGGCAGACGGGGCGACATCATGY		
6660	T	T	S	AACTCCATGATGTCGCCCTGCTCCCCTCTTTTTGGGAAGAACGCGTTGCT		
6660	T	C	S	AACTCCATGATGTCGCCCCGCTCCCCTCTTTTTGGGAAGAACGCGTTGCT		
				ATTCTCAGAGGAGCTCAGCAGATTCAGTGAACAGGAGCCTTGAACTCCATGATGTCGCCC[TC]GCTCCCCTCTTTTTGGGAAGAACGCGTTGCTAGCCCTGACAT		
6660	IS	[TC]		TTCTCTGACTCTCTCATT	MULTIPLE	22
6663	I		A	CAAGAAGGACATTTCCTGGCCCTTTACCATGTCTCTA		
6663	P	T	A	CGCGCCGAGGTTTCTAGCTCTGGCCTTAY		
6663	P	C	A	ATGACGTGGCAGACCTTCTAGCTCTGGCCTTY		
6663	T	T	A	GGGTTAAGGCCAGAGCTAGAAAAGAGACATGGTAAAGGGCCAGGAAATGTCCTTCTTGTA		
6663	T	C	A	GGGTTAAGGCCAGAGCTAGAAGAGACATGGTAAAGGGCCAGGAAATGTCCTTCTTGTA		
				GGCCTGGAAAGCCCGAAGCCAGTACAAGAAGGACATTTCCTGGCCCTTTACCATGTCTC[TC]TTCTAGCTCTGGCCTTAACCCAGAAACTGGCTGGCAAGCTGC		
6663	IS	[TC]		GGGGAGGGCATCAGAAGG	ctg15424	2
6667	I		S	GGGCGGTAACTAAAACTCACTGTGGGGAGTCAT		
6667	P	T	S	CGCGCCGAGGATGGTCACTATCAACATGATCY		
6667	P	C	S	ATGACGTGGCAGACGTGGTCACTATCAACATGATY		
6667	T	T	S	GTGGGATCATGTTGATAGTGACCATTGACTCCCCACAGTGAGTTTTAGTTACCGCCCTC		
6667	T	C	S	GTGGGATCATGTTGATAGTGACCACTGACTCCCCACAGTGAGTTTTAGTTACCGCCCTC		
				AGCCAAAGCCTCTGTCCTGGCTGATCCCTGGTGTACGTGGGATCATGTTGATAGTGACCA[TC]TGACTCCCCACAGTGAGTTTTAGTTACCGCCCTCCTCCCGCA		
6667	IS	[TC]		GCCACGCAGTATGCAGAT	ctg22fin3	22
6677	I		A	CCTCCTCCCTGCAGCTGGCTGATGTT		
6677	P	A	A	CGCGCCGAGGAGCTCACTGGTGTCTGY		
6677	P	G	A	ATGACGTGGCAGACGGCTCACTGGTGTCTY		
6677	T	A	A	TACACAGACACCAGTGAGCTACATCAGCCAGCTGCAGGGAGGAGGCT		
6677	T	G	A	TACACAGACACCAGTGAGCCACATCAGCCAGCTGCAGGGAGGAGGCT		
				TCTGTGTTCATTGCCGACCATCCTCATCCACTGAGCCTCCTCCCTGCAGCTGGCTGATGT[AG]GCTCACTGGTGTCTGTGTAGATAGGGAGCTGTGATGAGAACA		
6677	IS	[AG]		AGAGGTCAGAACACATCC	ctg53	14
6678	I		A	GAGCTGTGATGAGAACAAGAGGTCAGAACACATCCAGT		
6678	P	G	A	ATGACGTGGCAGACGCTCCTTAAGAGAAAGCCY		
6678	P	A	A	CGCGCCGAGGACTCCTTAAGAGAAAGCCTY		
6678	T	G	A	AGAAAGGCTTTCTCTTAAGGAGCCTGGATGTGTTCTGACCTCTTGTTCTCATCACAGCTCCC		
6678	T	A	A	AGAAAGGCTTTCTCTTAAGGAGTCTGGATGTGTTCTGACCTCTTGTTCTCATCACAGCTCCC		
				TCACTGGTGTCTGTGTAGATAGGGAGCTGTGATGAGAACAAGAGGTCAGAACACATCCAG[GA]CTCCTTAAGAGAAAGCCTTTCTTTAACCATTTTTGAAACCCTT		
6678	IS	[GA]		CAAAGGCAGAGACTTGT	ctg53	14
6679	I		A	CCTTGGCTTCTGTCCGCCCAGCTA		
6679	P	C	A	ATGACGTGGCAGACCAAGGTCCTGCAGCAY		
6679	P	T	A	CGCGCCGAGGTAAGGTCCTGCAGCATY		
6679	T	C	A	GGCAATGCTGCAGGACCTTGAGCTGGGCGGACAGAAGCCAAGGGC		
6679	T	T	A	GGCAATGCTGCAGGACCTTAAGCTGGGCGGACAGAAGCCAAGGGC		
				AACCTCCTCACAGTTCCTAGCTCCTGAGGCTCAGCGCCCTTGGCTTCTGTCCGCCCAGCT[CT]AAGGTCCTGCAGCATTGCCACTGCTCAGCCATGCTCCTGCTG		
6679	IS	[CT]		CTCGTCCCAGCGTTCCAG	ctg53	14
6683	I		S	GGGTGGCCGTTTTACCCTCCTGAATGTTCAGT		
6683	P	C	S	ATGACGTGGCAGACGGCCTCGGAATTCTGTY		
6683	P	T	S	CGCGCCGAGGAGCCTCGGAATTCTGTY		
6683	T	C	S	TAGAACAGAATTCCGAGGCCCTGAACATTCAGGAGGGTAAAACGGCCACCCTG		
6683	T	T	S	TAGAACAGAATTCCGAGGCTCTGAACATTCAGGAGGGTAAAACGGCCACCCTG		
				TTTGGTGTTGTGTTTCTGCCTAGGGGTGAAGAGCCAAAAGATAGAACAGAATTCCGAGGC[CT]CTGAACATTCAGGAGGGTAAAACGGCCACCCTGACCTGCAAC		
6683	IS	[CT]		TATACAAACTATTCTCCA		
6686	I		A	GGCTTTGAGGCTGAATTTAAGAGGAGTCAATCTTCCTTCAAA		
6686	P	C	A	ATGACGTGGCAGACCCTGAGGAAACCCTCTY		
6686	P	T	A	CGCGCCGAGGTCTGAGGAAACCCTCTGY		
6686	T	C	A	TGCACAGAGGGTTTCCTCAGGTTGAAGGAAGATTGACTCCTCTTAAATTCAGCCTCAAAGCCTT		
6686	T	T	A	TGCACAGAGGGTTTCCTCAGATTGAAGGAAGATTGACTCCTCTTAAATTCAGCCTCAAAGCCTT		
				TCTGGTTCAAGGCATTAAAGGCTTTGAGGCTGAATTTAAGAGGAGTCAATCTTCCTTCAA[CT]CTGAGGAAACCCTCTGTGCATTGGAGTGATGCTGCTGAGTACT		
6686	IS	[CT]		TCTGTGCTGTGGGTGCC	ctg53	14
6698	I		A	AGACACCGTTGATATACTAACCAGTACCTTATTGTCTGAAGAGAGCTAAA		
6698	P	T	A	CGCGCCGAGGTAGAAATAGACTGTCAGAGAGTAY		
6698	P	C	A	ATGACGTGGCAGACCAGAAATAGACTGTCAGAGAGY		
6698	T	T	A	GGTCTACTCTCTGACAGTCTATTTCTATTAGCTCTCTTCAGACAATAAGGTACTGGTTAGTATATCAACGGTGTCTGA		
6698	T	C	A	GGTCTACTCTCTGACAGTCTATTTCTGTTAGCTCTCTTCAGACAATAAGGTACTGGTTAGTATATCAACGGTGTCTGA		

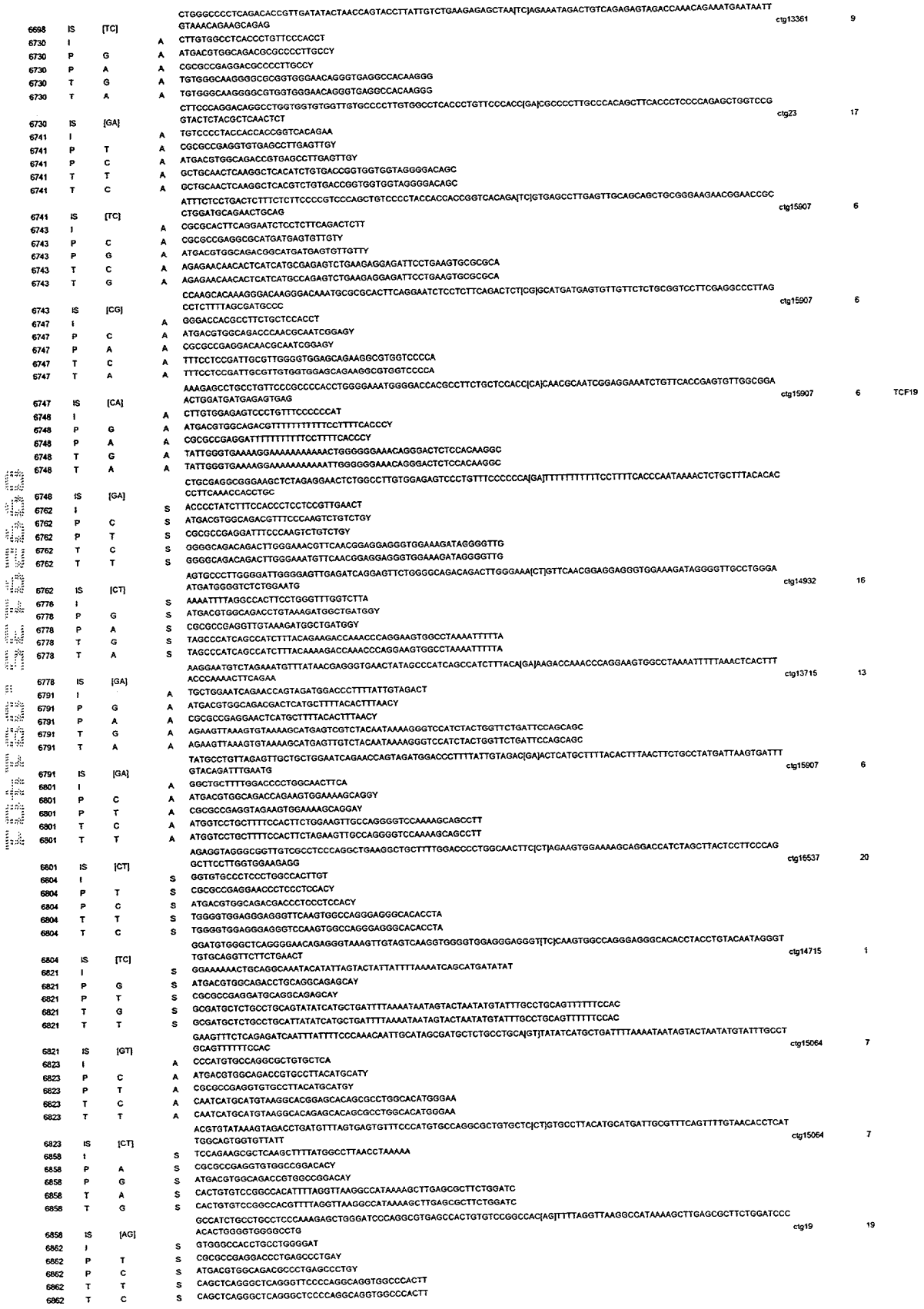

CTGGGCCCCTCAGACACCGTTGATATACTAACCAGTACCTTATTGTCTGAAGAGAGCTAA[TC]AGAAATAGACTGTCAGAGAGTAGACCAAACAGAAATGAATAATT
GTAAACAGAAGCAGAG
ctg13361
9
6698 IS [TC]
6730 I A CTTGTGGCCTCACCCTGTTCCCACCT
6730 P G A ATGACGTGGCAGACGCGCCCCTTGCCY
6730 P A A CGCGCCGAGGACGCCCCCTGCCY
6730 T G A TGTGGGCAAGGGGCGCGGTGGGAACAGGGTGAGGCCACAAGGG
6730 T A A TGTGGGCAAGGGGCGTGGTGGGAACAGGGTGAGGCCACAAGGG
CTTCCCAGGACAGGCCTGGTGGTGTGGTTGTGCCCCTTGTGGCCTCACCCTGTTCCCACC[GA]CGCCCCTTGCCCACAGCTTCACCCTCCCCAGAGCTGGTCCG
GTACTCTACGCTCAACTCT
ctgZ3
17
6730 IS [GA]
6741 I A TGTCCCCTACCACCACCGGTCACAGAA
6741 P T A CGCGCCGAGGTGTGAGCCTTGAGTTGY
6741 P C A ATGACGTGGCAGACCGTGAGCCTTGAGTTGY
6741 T T A GCTGCAACTCAAGGCTCACATCTGTGACCGGTGGTGGTAGGGGACAGC
6741 T C A GCTGCAACTCAAGGCTCACGTCTGTGACCGGTGGTGGTAGGGGACAGC
ATTTCTCCTGACTCTTTCTCTTCCCCGTCCCAGCTGTCCCCTACCACCACCGGTCACAGA[TC]GTGAGCCTTGAGTTGCAGCAGCTGCGGGAAGAACGGAACCGC
CTGGATGCAGAACTGCAG
ctg15907
6
6741 IS [TC]
6743 I A CGCGCACTTCAGGAATCTCCTCTTCAGACTCTT
6743 P C A CGCGCCGAGGCGCATGATGAGTGTTGTY
6743 P G A ATGACGTGGCAGACGGCATGATGAGTGTTGTTY
6743 T C A AGAGAACAACACTCATCATGCGAGAGTCTGAAGAGGAGATTCCTGAAGTGCGCGCA
6743 T G A AGAGAACAACACTCATCATGCCAGAGTCTGAAGAGGAGATTCCTGAAGTGCGCGCA
CCAAGCACAAAGGGACAAGGGACAAATGCGCGCACTTCAGGAATCTCCTCTTCAGACTCT[CG]GCATGATGAGTGTTGTTCTCTGCGGTCCTTCGAGGCCCTTAG
CCTCTTTTAGCGATGCCC
ctg15907
6
6743 IS [CG]
6747 I A GGGACCACGCCTTCTGCTCCACCT
6747 P C A ATGACGTGGCAGACCCAACGCAATCGGAGY
6747 P A A CGCGCCGAGGACAACGCAATCGGAGY
6747 T C A TTTCCTCCGATTGCGTTGGGGTGGAGCAGAAGGCGTGGTCCCCA
6747 T A A TTTCCTCCGATTGCGTTGTGGTGGAGCAGAAGGCGTGGTCCCCA
AAAGAGCCTGCCTGTTCCCGCCCCACCTGGGGAAATGGGGACCACGCCTTCTGCTCCACC[CA]CAACGCAATCGGAGGAAATCTGTTCACCGAGTGTTGGCGGA
ACTGGATGATGAGAGTGAG
ctg15907
6
TCF19
6747 IS [CA]
6748 I A CTTGTGGAGAGTCCCTGTTTCCCCCCAT
6748 P G A ATGACGTGGCAGACGTTTTTTTTTTTCCTTTTCACCCY
6748 P A A CGCGCCGAGGATTTTTTTTTTTTCCTTTTCACCCY
6748 T G A TATTGGGTGAAAAGGAAAAAAAAAAAACTGGGGGGAAACAGGGACTCTCCACAAGGC
6748 T A A TATTGGGTGAAAAGGAAAAAAAAAAAATTGGGGGGAAACAGGGACTCTCCACAAGGC
CTGCGAGGCGGGAAGCTCTAGAGGAACTCTGGCCTTGTGGAGAGTCCCTGTTTCCCCCCA[GA]TTTTTTTTTTTCCTTTTCACCCAATAAAACTCTGCTTTACACAC
CCTTCAAACCACCTGC
6748 IS [GA]
6762 I S ACCCCTATCTTTCCACCCTCCTCCGTTGAACT
6762 P C S ATGACGTGGCAGACGTTTCCCAAGTCTGTCTGY
6762 P T S CGCGCCGAGGATTTCCCAAGTCTGTCTGY
6762 T C S GGGGCAGACAGACTTGGGAAACGTTCAACGGAGGAGGGTGGAAAGATAGGGGTTG
6762 T T S GGGGCAGACAGACTTGGGAAATGTTCAACGGAGGAGGGTGGAAAGATAGGGGTTG
AGTGCCCTTGGGGATTGGGGAGTTGAGATCAGGAGTTCTGGGGCAGACAGACTTGGGAAA[CT]GTTCAACGGAGGAGGGTGGAAAGATAGGGGTTGCCTGGGA
ATGATGGGGTCTCTGGAATG
ctg14932
16
6762 IS [CT]
6778 I S AAAATTTTAGGCCACTTCCTGGGTTTGGTCTTA
6778 P G S ATGACGTGGCAGACCTGTAAAGATGGCTGATGGY
6778 P A S CGCGCCGAGGTTGTAAAGATGGCTGATGGY
6778 T G S TAGCCCATCAGCCATCTTTACAGAAGACCAAACCCAGGAAGTGGCCTAAAATTTTTA
6778 T A S TAGCCCATCAGCCATCTTTACAAAAGACCAAACCCAGGAAGTGGCCTAAAATTTTTA
AAGGAATGTCTAGAAATGTTTATAACGAGGGTGAACTATAGCCCATCAGCCATCTTTACA[GA]AAGACCAAACCCAGGAAGTGGCCTAAAATTTTTAAACTCACTTT
ACCCAAAACTTCAGAA
ctg13715
13
6778 IS [GA]
6791 I A TGCTGGAATCAGAACCAGTAGATGGACCCTTTTATTGTAGACT
6791 P G A ATGACGTGGCAGACGACTCATGCTTTTACACTTTAACY
6791 P A A CGCGCCGAGGAACTCATGCTTTTACACTTTAACY
6791 T G A AGAAGTTAAAGTGTAAAAGCATGAGTCGTCTACAATAAAAGGGTCCATCTACTGGTTCTGATTCCAGCAGC
6791 T A A AGAAGTTAAAGTGTAAAAGCATGAGTTGTCTACAATAAAAGGGTCCATCTACTGGTTCTGATTCCAGCAGC
TATGCCTGTTAGAGTTGCTGCTGGAATCAGAACCAGTAGATGGACCCTTTTATTGTAGAC[GA]ACTCATGCTTTTACACTTTAACTTGTGCCTATGATTAAGTGATTT
GTACAGATTTGAATG
ctg15907
6
6791 IS [GA]
6801 I A GGCTGCTTTTGGACCCCTGGCAACTTCA
6801 P C A ATGACGTGGCAGACCAGAAGTGGAAAAGCAGGY
6801 P T A CGCGCCGAGGTAGAAGTGGAAAAGCAGGAY
6801 T C A ATGGTCCTGCTTTTCCACTTCTGGAAGTTGCCAGGGGTCCAAAAGCAGCCTT
6801 T T A ATGGTCCTGCTTTTCCACTTCTAGAAGTTGCCAGGGGTCCAAAAGCAGCCTT
AGAGGTAGGGCGGTTGTCGCCTCCCAGGCTGAAGGCTGCTTTTGGACCCCTGGCAACTTC[CT]AGAAGTGGAAAAGCAGGACCATCTAGCTTACTCCTTCCCAG
GCTTCCTTGGTGGAAGAGG
ctg16537
20
6801 IS [CT]
6804 I S GGTGTGCCCTCCCTGGCCACTTGT
6804 P T S CGCGCCGAGGAACCCTCCCTCCACY
6804 P C S ATGACGTGGCAGACGACCCTCCCTCCACY
6804 T T S TGGGGTGGAGGGAGGGTTCAAGTGGCCAGGGAGGGCACACCTA
6804 T C S TGGGGTGGAGGGAGGGTCCAAGTGGCCAGGGAGGGCACACCTA
GGATGTGGGCTCAGGGGAACAGAGGGTAAAGTTGTAGTCAAGGTGGGGTGGAGGGAGGGT[TC]CAAGTGGCCAGGGAGGGCACACCTACCTGTACAATAGGGT
TGTGCAGGTTCTTCTGAACT
ctg14715
1
6804 IS [TC]
6821 I S GGAAAAAACTGCAGGCAAATACATATTAGTACTATTATTTTAAAATCAGCATGATATAT
6821 P G S ATGACGTGGCAGACCTGCAGGCAGAGCAY
6821 P T S CGCGCCGAGGATGCAGGCAGAGCAY
6821 T G S GCGATGCTCTGCCTGCAGTATATCATGCTGATTTTAAAATAATAGTACTAATATGTATTTGCCTGCAGTTTTTTCCAC
6821 T T S GCGATGCTCTGCCTGCATTATATCATGCTGATTTTAAAATAATAGTACTAATATGTATTTGCCTGCAGTTTTTTCCAC
GAAGTTTCTCAGAGATCAATTTATTTTCCCAAACAATTGCATAGCGATGCTCTGCCTGCA[GT]TATATCATGCTGATTTTAAAATAATAGTACTAATATGTATTTGCCT
GCAGTTTTTTCCAC
ctg15064
7
6821 IS [GT]
6823 I A CCCATGTGCCAGGCGCTGTGCTCA
6823 P C A ATGACGTGGCAGACCGTGCCTTACATGCATY
6823 P T A CGCGCCGAGGTGTGCCTTACATGCATGY
6823 T C A CAATCATGCATGTAAGGCACGGAGCACAGCGCCTGGCACATGGGAA
6823 T T A CAATCATGCATGTAAGGCACAGAGCACAGCGCCTGGCACATGGGAA
ACGTGTATAAAGTAGACCTGATGTTTAGTGAGTGTTTCCCATGTGCCAGGCGCTGTGCTC[CT]GTGCCTTACATGCATGATTGCGTTTCAGTTTTGTAACACCTCAT
TGGCAGTGGTGTTATT
ctg15064
7
6823 IS [CT]
6858 I S TCCAGAAGCGCTCAAGCTTTTATGGCCTTAACCTAAAAA
6858 P A S CGCGCCGAGGTGTGGCCGGACACY
6858 P G S ATGACGTGGCAGACCGTGGCCGGACAY
6858 T A S CACTGTGTCCGGCCACATTTTAGGTTAAGGCCATAAAAGCTTGAGCGCTTCTGGATC
6858 T G S CACTGTGTCCGGCCACGTTTTAGGTTAAGGCCATAAAAGCTTGAGCGCTTCTGGATC
GCCATCTGCCTGCCTCCCAAAGAGCTGGGATCCCAGGCGTGAGCCACTGTGTCCGGCCAC[AG]TTTTAGGTTAAGGCCATAAAAGCTTGAGCGCTTCTGGATCCC
ACACTGGGGTGGGGCCTG
ctg19
19
6858 IS [AG]
6862 I S GTGGGCCACCTGCCTGGGGAT
6862 P T S CGCGCCGAGGACCCTGAGCCCTGAY
6862 P C S ATGACGTGGCAGACGCCCTGAGCCCTGY
6862 T T S CAGCTCAGGGCTCAGGGTTCCCCAGGCAGGTGGCCCACTT
6862 T C S CAGCTCAGGGCTCAGGGCTCCCCAGGCAGGTGGCCCACTT

FIGURE 129B

				TGCGGTGGAGTGAAGGTGGTGCAGTTGAGAGGGGAGTCGGGCCCAGCTCAGGGCTCAGGG[TC]TCCCCAGGCAGGTGGCCCACTTCCCCTAGGGACACCTGG			
6862	IS	[TC]		ACACCCACTGCGATGGGGCAG	ctg_na	NA	
6887	I		S	GGGATGGGGGCCCACAGCCCT			
6887	P	C	S	ATGACGTGGCAGACGGGCCAGAGCCAGY			
6887	P	T	S	CGCGCCGAGGAGGCCAGAGCCAGY			
6887	T	C	S	ATCACTGGCTCTGGCCCGGGCTGTGGGCCCCCATCCCCC			
6887	T	T	S	ATCACTGGCTCTGGCCTGGGCTGTGGGCCCCCATCCCCC			
				ATAAAGGAGAAACTGAGGTACCCGGCTGGCATCGGTCCTGCCCCATCACTGGCTCTGGCC[CT]GGGCTGTGGGCCCCCATCCCCCGGGGCTGCAGCCGCACTT			
6887	IS	[CT]		GGAAAGGCTGCATCTTGAGG	ctg15907	6	CYP21A2
6897	I		A	GTCACAGATCGCTGTCTGCCCACTCCAA			
6897	P	C	A	ATGACGTGGCAGACCCGGCCATTCACTTGY			
6897	P	T	A	CGCGCCGAGGTCGGCCATTCACTTGY			
6897	T	C	A	CTGCCAAGTGAATGGCCGGTGGAGTGGGCAGACAGCGATCTGTGACAA			
6897	T	T	A	CTGCCAAGTGAATGGCCGATGGAGTGGGCAGACAGCGATCTGTGACAA			
				ATGTAGGGGGAGGGGATGCTTCTCACCTCCGTTGTCACAGATCGCTGTCTGCCCACTCCA[CT]CGGCCATTCACTTGGCAGGTGCGATTGGCAGAGCCCCGGAG			
6897	IS	[CT]		AGTGTAACCGTCATAGCAG	ctg15907	6	
6913	I		S	ACCCTTGGTTCTGAGGACCCCCAGCA			
6913	P	A	S	CGCGCCGAGGTCCATCTCCCCACCAY			
6913	P	G	S	ATGACGTGGCAGACCCCATCTCCCCACCY			
6913	T	A	S	AGAGTGGTGGGGAGATGGAGCTGGGGGTCCTCAGAACCAAGGGTCT			
6913	T	G	S	AGAGTGGTGGGGAGATGGGGCTGGGGGTCCTCAGAACCAAGGGTCT			
				CTGGGAAAATGAAGACCTGCTGGTAAGACAATAACCCTGGAAAGAGTGGTGGGGAGATGG[AG]GCTGGGGGTCCTCAGAACCAAGGGTCTGTATTTTTGCAGCA			
6913	IS	[AG]		GTGGTAAGATGAGAGTAGG	ctg13255	6	
6914	I		S	TCCAACAAGGTGTCCTGTGGGGACAGCA			
6914	P	A	S	CGCGCCGAGGTGTCATTGTCTATGCTGGY			
6914	P	G	S	ATGACGTGGCAGACCGTCATTGTCTATGCTGGY			
6914	T	A	S	CTGACCAGCATAGACAATGACAGCTGTCCCCACAGGACACCTTGTTGGAGT			
6914	T	G	S	CTGACCAGCATAGACAATGACGGCTGTCCCCACAGGACACCTTGTTGGAGT			
				CAGTCCAAACGGGGTCTGGTCACCTGGGGCGGGGACTTGCTGACCAGCATAGACAATGAC[AG]GCTGTCCCCACAGGACACCTTGTTGGAGTGTGTGAATAAGA			
6914	IS	[AG]		AGGTCCCCGTACTGCTGTC	ctg16857	14	
6920	I		S	CCCCTCTGTCCTGTGTCCCCTGCCC			
6920	P	T	S	CGCGCCGAGGATGTCCCTGTCTGACCY			
6920	P	A	S	ATGACGTGGCAGACTTGTCCCTGTCTGACCY			
6920	T	T	S	CCTGGGTCAGACAGGGACATGGCAGGGGACACAGGACAGAGGGGTC			
6920	T	A	S	CCTGGGTCAGACAGGGACAAGGCAGGGGACACAGGACAGAGGGGTC			
				GTGGCCAGCGTAGGGTCCAGCACGTGGGGTGGTACCCCAGGCCTGGGTCAGACAGGGACA[TA]GGCAGGGGACACAGGACAGAGGGGTCCCCAGCTGCCACC			
6920	IS	[TA]		TCACCCACCGCAATTCATTTA	MULTIPLE	MULTIPLE	
6925	I		S	GGTGAGGCAGGTGGGAACTCCAGCTTT			
6925	P	C	S	ATGACGTGGCAGACGTGGATTTCCCTAGCCY			
6925	P	T	S	CGCGCCGAGGATGGATTTCCCTAGCCCY			
6925	T	C	S	CCCTGGGCTAGGGAAATCCACAAGCTGGAGTTCCCACCTGCCTCACCCC			
6925	T	T	S	CCCTGGGCTAGGGAAATCCATAAGCTGGAGTTCCCACCTGCCTCACCCC			
				GGGATGCAGGCAGAGTGGGTGAGGGAGGGAGGGTTGCCTTCCCTGGGCTAGGGAAATCCA[CT]AAGCTGGAGTTCCCACCTGCCTCACCCCTGCCTGCTGCTG			
6925	IS	[CT]		CTGCCAGCCTGCATGGGCGG	ctg17748	14	
11069	I		A	CACCCTGAGCTGGTTCCTCTGCATCCAGA			
11069	P	C	A	ATGACGTGGCAGACCTGGTCTCCCACACC			
11069	P	T	A	CGCGCCGAGGTTGGTCTCCCACACC			
11069	T	C	A	CCTGGGTGTGGGAGACCAGCTGGATGCAGAGGAACCAGCTCAGGGTGAC			
11069	T	T	A	CCTGGGTGTGGGAGACCAACTGGATGCAGAGGAACCAGCTCAGGGTGAC			
				TGAGACCTGAGGATCCAGTGCCTGTGCTGTGTCACCCTGAGCTGGTTCCTCTGCATCCAG[CT]TGGTCTCCCACACCCAGGTTTTGGCCAGCTGCCCAGACATGG			
11069	IS	[CT]		GAGCGGCACCCAGGCTGT	ctg18433	19	
11077	I		S	GGGCTCCCGGGACGTCCCCT			
11077	P	C	S	ATGACGTGGCAGACGGAGGACATGGCCAY			
11077	P	T	S	CGCGCCGAGGAGAGGACATGGCCACY			
11077	T	C	S	AGCTGTGGCCATGTCCTCCGGGGACGTCCCGGGAGCCCGA			
11077	T	T	S	AGCTGTGGCCATGTCCTCTGGGGACGTCCCGGGAGCCCGA			
				CCCTTTCCCAGGGATTCAGACCATGTCAGCTTCAGTCCAGAGAGCTGTGGCCATGTCCTC[CT]GGGGACGTCCCGGGAGCCCGAGGGGCCGTGGAGGGGATCC			
11077	IS	[CT]		TCATCCAGCAGGTGTTTGAG	ctg21fin5	21	
11176	I		A	GGGGCTCTGGCCTGAAACTCTCCCTTTT			
11176	P	G	A	ATGACGTGGCAGACGCCAGATCCTGGAGGY			
11176	P	C	A	CGCGCCGAGGCCCAGATCCTGGAGGY			
11176	T	G	A	GACTCCTCCAGGATCTGGCAAAGGGAGAGTTTCAGGCCAGAGCCCCAA			
11176	T	C	A	GACTCCTCCAGGATCTGGGAAAGGGAGAGTTTCAGGCCAGAGCCCCAA			
				GCTGAGCAGGCCTGGGAGCGGGAGGGAGCAGTTGGGGCTCTGGCCTGAAACTCTCCCTTT[GC]CCAGATCCTGGAGGAGTCTGACATTGACAGGGATGGAACC			
11176	IS	[GC]		ATCAACCTCTCTGAGTTCCA	ctg11	15	
11205	I		A	TCCCAGTGGTTTGATTGGCACATTCTGATTCTCTTACCA			
11205	P	C	A	ATGACGTGGCAGACCGTGCTTTCCCAAGACY			
11205	P	T	A	CGCGCCGAGGTGTGCTTTCCCAAGACTY			
11205	T	C	A	GCAAAGTCTTGGGAAAGCACGGGTAAGAGAATCAGAATGTGCCAATCAAACCACTGGGAGG			
11205	T	T	A	GCAAAGTCTTGGGAAAGCACAGGTAAGAGAATCAGAATGTGCCAATCAAACCACTGGGAGG			
				CTCTAAAAAGCCACAGCAGCCCTCCCAGTGGTTTGATTGGCACATTCTGATTCTCTTACC[CT]GTGCTTTCCCAAGACTTTGCTATACTGTTTCTTTTTAGATCCCA			
11205	IS	[CT]		AATACTTCACAAATAC	ctg22fin3	22	
11208	I		S	TCTGGACATCAGAGAGGTCGGTGCCACAATT			
11208	P	G	S	ATGACGTGGCAGACCAACTTGAAACACCAGAAGAY			
11208	P	T	S	CGCGCCGAGGAAACTTGAAACACCAGAAGAY			
11208	T	G	S	GGGATCTTCTGGTGTTTCAAGTTGATTGTGGCACCGACCTCTCTGATGTCCAGAAC			
11208	T	T	S	GGGATCTTCTGGTGTTTCAAGTTTATTGTGGCACCGACCTCTCTGATGTCCAGAAC			
				AGTAATTTTAAAGTGAGTGACAGGCCCACAATTCCCAGGGATCTTCTGGTGTTTCAAGTT[GT]ATTGTGGCACCGACCTCTCTGATGTCCAGAACAAGCATTCTGT			
11208	IS	[GT]		CTCCTGGCAAAGTCTTT	ctg22fin3	22	
11224	I		A	GGGCTGGCCGTCTGCTTCCTGACA			
11224	P	C	A	ATGACGTGGCAGACCGAGACCCGCAACAY			
11224	P	T	A	CGCGCCGAGGTGAGACCCGCAACATY			
11224	T	C	A	GGGCATGTTGCGGGTCTCGGTCAGGAAGCAGACGGCCAGCCCAG			
11224	T	T	A	GGGCATGTTGCGGGTCTCAGTCAGGAAGCAGACGGCCAGCCCAG			
				GCCACCCGTGAGCTTTGGGGCCACCGCAATCCTGGCTGGGCTGGCCGTCTGCTTCCTGAC[CT]GAGACCCGCAACATGCCCCTGGTGGAGACCATCGCAGCCA			
11224	IS	[CT]		TGGAGAGGAGGTGAGGGGCC	ctg17042	11	
11240	I		S	AGAAGTTTCTAGGGACAGGATTCATGCCCCCCT			
11240	P	C	S	ATGACGTGGCAGACGTTCATTCTGGGGCTCY			
11240	P	T	S	CGCGCCGAGGATTCATTCTGGGGCTCCY			
11240	T	C	S	GCTAGGAGCCCCAGAATGAACGGGGGGCATGAATCCTGTCCCTAGAAACTTCTCA			
11240	T	T	S	GCTAGGAGCCCCAGAATGAATGGGGGGCATGAATCCTGTCCCTAGAAACTTCTCA			
				CACAGACATTTATGGAGTCTTCTCCGGTACCAGGCACGGAGCTAGGAGCCCCAGAATGAA[CT]GGGGGGCATGAATCCTGTCCCTAGAAACTTCTCAGCATGGTG			
11240	IS	[CT]		GTGGATGGGTGGGAGGGG	ctg15330	9	
11248	I		S	CATCTGTGCTGGGAAAGGACCCCAGAGTA			
11248	P	A	S	CGCGCCGAGGTGGCTGCTAAAGGAACY			
11248	P	G	S	ATGACGTGGCAGACCGGCTGCTAAAGGAACY			
11248	T	A	S	ACAGGTTCCTTTAGCAGCCAACTCTGGGGTCCTTTCCCAGCACAGATGTC			
11248	T	G	S	ACAGGTTCCTTTAGCAGCCGACTCTGGGGTCCTTTCCCAGCACAGATGTC			

FIGURE 129B

				TTGTCATAGGCAGTTGTGGCTGCGTCTCTTCCTCTGTGAATACAGGTTCCTTTAGCAGCC[AG]ACTCTGGGGTCCTTTCCCAGCACAGATGTCCAGAGAGAGGCA		
11248	IS	[AG]		CACGGTGGCTGTGGGCCT	ctg16291	9
11265	I		A	TCTGACAACTGTCCCCCACTCCCGCT		
11265	P	C	A	ATGACGTGGCAGACCGTGCCCAGTGCCY		
11265	P	A	A	CGCGCCGAGGAGTGCCCAGTGCCY		
11265	T	C	A	GTCGGGCACTGGGCACGGCGGGAGTGGGGGACAGTTGTCAGAGC		
11265	T	A	A	GTCGGGCACTGGGCACTGCGGGAGTGGGGGACAGTTGTCAGAGC		
				CTGCCCCCTGTAGCCAGGGCATGTGTGGGGACCGCTCTGACAACTGTCCCCCACTCCCGC[CA]GTGCCCAGTGCCCGACACCCTGGGGAGTCACTGCCACCCC		
11265	IS	[CA]		GGAGGGGCCACCAATTCAAC	ctg16291	9
11270	I		A	CCAGACATACACACACGAGTAAGACGTGCTTTATTGTACATATTAGAAAGTAAT		
11270	P	G	A	ATGACGTGGCAGACGTGATGAGTATCCAAGTTAAGCY		
11270	P	A	A	CGCGCCGAGGATGATGAGTATCCAAGTTAAGCY		
11270	T	G	A	CATTGCTTAACTTGGATACTCATCACTTACTTTCTAATATGTACAATAAAGCACGTCTTACTCGTGTGTGTATGTCTGGGC		
11270	T	A	A	CATTGCTTAACTTGGATACTCATCATTTACTTTCTAATATGTACAATAAAGCACGTCTTACTCGTGTGTGTATGTCTGGGC		
				AAGAAGCCCAGACATACACACACGAGTAAGACGTGCTTTATTGTACATATTAGAAAGTAA[GA]TGATGAGTATCCAAGTTAAGCAATGCACATAACAGCTAAATAAAT		
11270	IS	[GA]		AAAAGTTGATAGGCT	ctg25099	7
11275	I		A	CCCAGCAATACCCAGATAAGGGTCCCAGCT		
11275	P	A	A	CGCGCCGAGGAGGAGAGGTCGCTGY		
11275	P	G	A	ATGACGTGGCAGACGGGAGAGGTCGCTGY		
11275	T	A	A	GGGCCAGCGACCTCTCCTGCTGGGACCCTTATCTGGGTATTGCTGGGAG		
11275	T	G	A	GGGCCAGCGACCTCTCCCGCTGGGACCCTTATCTGGGTATTGCTGGGAG		
				AGGGAAGGTGGGTCTGATGGCCATGCCATCTCCCAGCAATACCCAGATAAGGGTCCCAGC[AG]GGAGAGGTCGCTGGCCCCTACATCACCCTTGATATGAGGGC	MULTIPLE	MULTIPLE
11275	IS	[AG]		ACTCACTCATCTCCCTTTG		
11280	I		S	GTACTGTGACCTGCAACCAAGAAGGACCAGTGT		
11280	P	T	S	CGCGCCGAGGATGGAGGAGAGCCACY		
11280	P	C	S	ATGACGTGGCAGACGTGGAGGAGAGCCACY		
11280	T	T	S	GGTGGTGGCTCTCCTCCATCACTGGTCCTTCTTGGTTGCAGGTCACAGTACCC		
11280	T	C	S	GGTGGTGGCTCTCCTCCACCACTGGTCCTTCTTGGTTGCAGGTCACAGTACCC		
				GTATGGTAAGGAGACTGGCATTTCCTCTTTTGTGGCCGTGAGGGTGGTGGCTCTCCTCCA[TC]CACTGGTCCTTCTTGGTTGCAGGTCACAGTACCCTCAGCCCA		
11280	IS	[TC]		AGCTGCTGGAGCACAGGT	ctg16291	9
11282	I		S	GTGATTCTTTCAGTTATGTGCCGCAACGGTACGAA		
11282	P	G	S	ATGACGTGGCAGACCGAGCTTTCTAGTTCACAGY		
11282	P	A	S	CGCGCCGAGGTGAGCTTTCTAGTTCACAGAY		
11282	T	G	S	TAGCTCTGTGAACTAGAAAGCTCGTCGTACCGTTGCGGCACATAACTGAAAGAATCACAT		
11282	T	A	S	TAGCTCTGTGAACTAGAAAGCTCATCGTACCGTTGCGGCACATAACTGAAAGAATCACAT		
				GTGCTCGAATTCTTTGGAGACTTTTGTGGCATCTTTATAGCTCTGTGAACTAGAAAGCTC[GA]TCGTACCGTTGCGGCACATAACTGAAAGAATCACATCAGTGGG		
11282	IS	[GA]		AATTTAGCTGCTTGATG	ctg16114	X
11296	I		A	ACAAGCCTCCCCTGTCACAAAAGACATCTCCAC		
11296	P	A	A	CGCGCCGAGGATGATTGCACAGCACAGY		
11296	P	T	A	ATGACGTGGCAGACTTGATTGCACAGCACAGY		
11296	T	A	A	ACAACTGTGCTGTGCAATCATTGGAGATGTCTTTTGTGACAGGGGAGGCTTGTAA		
11296	T	T	A	ACAACTGTGCTGTGCAATCAATGGAGATGTCTTTTGTGACAGGGGAGGCTTGTAA		
				AAATGCTTGAGCTGGCTAGGAAGTCCTTACAAGCCTCCCCTGTCACAAAAGACATCTCCA[AT]TGATTGCACAGCACAGTTGTTCAGAAGAAAGGGCCTGCTCTTA		
11296	IS	[AT]		TCACTTCTAAAGGGTTT	ctg14243	19
11302	I		S	CCAGCATTGTGGTGTTATATAGAACACTCTCCTGCTACTCTCA		
11302	P	A	S	CGCGCCGAGGTGATCTCTTGGGTCTGAGY		
11302	P	G	S	ATGACGTGGCAGACCGATCTCTTGGGTCTGAY		
11302	T	A	S	AGTCCTCAGACCCAAGAGATCAGAGAGTAGCAGGAGAGTGTTCTATATAACACCACAATGCTGGAG		
11302	T	G	S	AGTCCTCAGACCCAAGAGATCGGAGAGTAGCAGGAGAGTGTTCTATATAACACCACAATGCTGGAG		
				TGGCCCGGAGTCAGGACCCTGGGCTTGGGGCTTCTCCAGAGTCCTCAGACCCAAGAGATC[AG]GAGAGTAGCAGGAGAGTGTTCTATATAACACCACAATGCTG		
11302	IS	[AG]		GAGAGCGTATTGGGTGGGG	ctg14243	19
11303	I		S	GAGCATTTGGGAAAACTGGGCCTTTAGTGTCTGAAAT		
11303	P	C	S	ATGACGTGGCAGACGGATCAGAGCGCTTTATAAY		
11303	P	T	S	CGCGCCGAGGAGATCAGAGCGCTTTATAAGY		
11303	T	C	S	ATCACTTATAAAGCGCTCTGATCCTTTCAGACACTAAAGGCCCAGTTTTCCCAAATGCTCCA		
11303	T	T	S	ATCACTTATAAAGCGCTCTGATCTTTTCAGACACTAAAGGCCCAGTTTTCCCAAATGCTCCA		
				TAGAGACCCAGCTGCTCAGGATGATATTCCAGGTGCAATCACTTATAAAGCGCTCTGATC[CT]TTTCAGACACTAAAGGCCCAGTTTTCCCAAATGCTCCAGCTGT		
11303	IS	[CT]		GAACCATCTCTGAGCCT	ctg14243	19
11360	I		S	GTCACAGTGACTAGGGAACCTTGGAGGATTGTGAAGT		
11360	P	G	S	CGCGCCGAGGCGGCTGGCCATGGY		
11360	P	C	S	ATGACGTGGCAGACGGGCTGGCCATGGY		
11360	T	G	S	AACCCCATGGCCAGCCGCTTCACAATCCTCCAAGGTTCCCTAGTCACTGTGACAG		
11360	T	C	S	AACCCCATGGCCAGCCCCTTCACAATCCTCCAAGGTTCCCTAGTCACTGTGACAG		
				TCTGGGGAAGTGAGGACCACCATCAGCTGAAGCAGCCCATCATCAACCCCATGGCCAGCC[GC]CTTCACAATCCTCCAAGGTTCCCTAGTCACTGTGACAGCCTC		
11360	IS	[GC]		TAGGACAGTACCCTCAGA	ctg15944	11
11583	I		S	GTGTGCTTTTGTCTAAAGCGCTCATTGAGTTGCCA		
11583	P	G	S	ATGACGTGGCAGACCGTGCGTCCTCCAY		
11583	P	A	S	CGCGCCGAGGTGTGCGTCCTCCACY		
11583	T	G	S	TTGTGTGGAGGACGCACAGGCAACTCAATGAGCGCTTTAGACAAAAGCACACCT		
11583	T	A	S	TTGTGTGGAGGACGCACAGGCAACTCAATGAGCGCTTTAGACAAAAGCACACCT		
				CACCCCAAAGTCTGAGACTCTCCTGGGACTCACAGGCAGCCTTTTGTGTGGAGGACGCAC[GA]GGCAACTCAATGAGCGCTTTAGACAAAAGCACACCTCTGAAC		
11583	IS	[GA]		ACAACTGAAAGACTTTAT	ctg13740	5
11593	I		A	CCAACAGTCGTGTCCAGAGACCTACTTTGTAACACCC		
11593	P	G	A	ATGACGTGGCAGACGCAGGGAAGTTAATGTACTAGY		
11593	P	T	A	CGCGCCGAGGTCAGGGAAGTTAATGTACTAGY		
11593	T	G	A	AGACCTAGTACATTAACTTCCCTGCGGTGTTACAAAGTAGGTCTCTGGACACGACTGTTGGAA		
11593	T	T	A	AGACCTAGTACATTAACTTCCCTGAGGTGTTACAAAGTAGGTCTCTGGACACGACTGTTGGAA		
				ATACTTAGCGAGGATCATTACTTTCCAACAGTCGTGTCCAGAGACCTACTTTGTAACACC[GT]CAGGGAAGTTAATGTACTAGGTCTTGAAAGGTCTTTCTGGAATG		
11593	IS	[GT]		TGCAGTAACTTGTAGT	ctg15064	7
11614	I		S	GTGGTAGAAGACATTATTGTGGTAAGTCTTCCTTTGTGCATCCT		
11614	P	C	S	ATGACGTGGCAGACGTCTCTCACTGTTAAAACTCAY		
11614	P	T	S	CGCGCCGAGGATCTCTCACTGTTAAAACTCATY		
11614	T	C	S	CAACATGAGTTTTAACAGTGAGAGACGGATGCACAAAGGAAGACTTACCACAATAATGTCTTCTACCACCA		
11614	T	T	S	CAACATGAGTTTTAACAGTGAGAGATGGATGCACAAAGGAAGACTTACCACAATAATGTCTTCTACCACCA		
				CCTTGTAGTGTTGCATTAGAACAATAGTTGGCTTTCAACATGAGTTTTAACAGTGAGAGA[CT]GGATGCACAAAGGAAGACTTACCACAATAATGTCTTCTACCACC		
11614	IS	[CT]		AACTGCTCAGCACACG	ctg15064	7
11618	I		A	CAGGCCCTGGACCTGCGGTAGGAAA		
11618	P	C	A	ATGACGTGGCAGACCGGTCAGGAGGACTGY		
11618	P	T	A	CGCGCCGAGGTGGTCAGGAGGACTGY		
11618	T	C	A	GATGCAGTCCTCCTGACCGTTCCTACCGCAGGTCCAGGGCCTGGG		
11618	T	T	A	GATGCAGTCCTCCTGACCATTCCTACCGCAGGTCCAGGGCCTGGG		
				TGGAGCGCCGCCGCCTGCCTGTGGGGTCCGCGGGCCCAGGCCCTGGACCTGCGGTAGGAA[CT]GGTCAGGAGGACTGCATCAGGCCCGTGAGGCGCTTGCCC		
11618	IS	[CT]		GCCAGCGACTTTCCCTGCAGA	ctg13206	14
11639	I		A	CTGTTGTTAAATGAAAAGGCCCATCTTCCTTTGCA		
11639	P	T	A	CGCGCCGAGGTTCTTCTCAGGCAAAATCTGY		
11639	P	C	A	ATGACGTGGCAGACCTCTTCTCAGGCAAAATCTY		
11639	T	T	A	CTTTCAGATTTTGCCTGAGAAGAAGCAAAGGAAGATGGGCCTTTTCATTTAACAACAGAA		
11639	T	C	A	CTTTCAGATTTTGCCTGAGAAGAGGCAAAGGAAGATGGGCCTTTTCATTTAACAACAGAA		

FIGURE 129B

				GTCTCCAAAAATTTTTTTTAGGATTTCTGTTGTTAAATGAAAAGGCCCATCTTCCTTTGC[TC]TCTTCTCAGGCAAAATCTGAAAGACCTACTCTCATTTTTTTCTTCC		
11639	IS	[TC]		CTTTGGAAAATGCT		
11643	I		A	GGATATAAAAGCCAGGCCTGGTTCCCATCCCT		
11643	P	G	A	ATGACGTGGCAGACGCTGTACGGATTGCAAAY		
11643	P	A	A	CGCGCCGAGGACTGTACGGATTGCAAACY		
11643	T	G	A	GACAGTTTGCAATCCGTACAGCGGGATGGGAACCAGGCCTGGCTTTTATATCCCG		
11643	T	A	A	GACAGTTTGCAATCCGTACAGTGGGATGGGAACCAGGCCTGGCTTTTATATCCCG		
				GAAGGACGTCTGCCGGCTCATAGCAGCCGGGATATAAAAGCCAGGCCTGGTTCCCATCCC[GA]CTGTACGGATTGCAAACTGTCAGAAGATAGCTGTCCTGGGT		
11643	IS	[GA]		GAATGCATCAGAGATGTCT	ctg19247	7
11644	I		A	CTGTTGGCTGGCTCTGGGGCTGGA		
11644	P	T	A	CGCGCCGAGGTCCTGGGAGGCTGGY		
11644	P	C	A	ATGACGTGGCAGACCCCTGGGAGGCTGY		
11644	T	T	A	CCCACCAGCCTCCCAGGACCAGCCCCAGAGCCAGCCAACAGTG		
11644	T	C	A	CCCACCAGCCTCCCAGGGCCAGCCCCAGAGCCAGCCAACAGTG		
				TGGGTGGTGACGGACTCAACCTGGACCCCCCCTGCCACTGTTGGCTGGCTCTGGGGCTGG[TC]CCTGGGAGGCTGGTGGGTGCCCCATGAAGGGCTCACTGGT		
11644	IS	[TC]		CCGGCCTTGGGCTCACATTG	ctg25099	7
11645	I		A	GAAGCAAGAAAAAGCAAGTCGCTTAGGAAGCCAAGTA		
11645	P	T	A	CGCGCCGAGGTCACAGTTTGGATCTTACAGY		
11645	P	C	A	ATGACGTGGCAGACCCACAGTTTGGATCTTACAY		
11645	T	T	A	TACTCTGTAAGATCCAAACTGTGAACTTGGCTTCCTAAGCGACTTGCTTTTTCTTGCTTCAC		
11645	T	C	A	TACTCTGTAAGATCCAAACTGTGGACTTGGCTTCCTAAGCGACTTGCTTTTTCTTGCTTCAC		
				GGGAACCTCACGTGCAAAGGCAGTGAAGCAAGAAAAAGCAAGTCGCTTAGGAAGCCAAGT[TC]CACAGTTTGGATCTTACAGAGTAATAAGAAAGGATCGAAGGC		
11645	IS	[TC]		TGGGGAAAGGTTACATTT	ctg25099	7
11654	I		A	CGTTCCCCAAACACAACACAGCAGCCAA		
11654	P	C	A	ATGACGTGGCAGACCGGGTGCCGGGY		
11654	P	T	A	CGCGCCGAGGTGGGTGCCGGGY		
11654	T	C	A	CCTGCCCGGCACCCGTGGCTGCTGTGTTGTGTTTGGGGAACGGA		
11654	T	T	A	CCTGCCCGGCACCCATGGCTGCTGTGTTGTGTTTGGGGAACGGA		
				CCTTTCACAAGCACACCCCGTGGTGGGGTGCTCCGTTCCCCAAACACAACACAGCAGCCA[CT]GGGTGCCGGGCAGGGTCCTGAGAATATTAGAGCGAGTGGTC		
11654	IS	[CT]		ATCCCCATTTGACTTATGG	ctg18037	7
11674	I		A	GCACATTTCACAAAGGCAGATTTTATTATCAACTTCAGATTGAATATTTT		
11674	P	A	A	CGCGCCGAGGATATTTTCTAATTCCATTTTTAAAAACTTTAGY		
11674	P	G	A	ATGACGTGGCAGACGTATTTTCTAATTCCATTTTTAAAAACTTTAY		
11674	T	A	A	ACACCTAAAGTTTTTAAAAATGGAATTAGAAAATATAAATATTCAATCTGAAGTTGATAATAAAATCTGCCTTTGTGAAATGTGCCA		
11674	T	G	A	ACACCTAAAGTTTTTAAAAATGGAATTAGAAAATACAAATATTCAATCTGAAGTTGATAATAAAATCTGCCTTTGTGAAATGTGCCA		
				AGTAAAAGTTGGCACATTTCACAAAGGCAGATTTTATTATCAACTTCAGATTGAATATTT[AG]TATTTTCTAATTCCATTTTTAAAAACTTTAGGTGTATCTTTTTGTTG		
11674	IS	[AG]		TTTGTTTTGTTTT		
11678	I		A	GTTCTTCCCTGGTGCTGTTCTTGACTTCCCAACT		
11678	P	A	A	CGCGCCGAGGATGACCCTCCTGGAAATY		
11678	P	G	A	ATGACGTGGCAGACGTGACCCTCCTGGAAAY		
11678	T	A	A	TCTGATTTCCAGGAGGGTCATGTTGGGAAGTCAAGAACAGCACCAGGGAAGAACTT		
11678	T	G	A	TCTGATTTCCAGGAGGGTCACGTTGGGAAGTCAAGAACAGCACCAGGGAAGAACTT		
				AGATTACTCATGGCAACTCAATCTGAAGTTCTTCCCTGGTGCTGTTCTTGACTTCCCAAC[AG]TGACCCTCCTGGAAATCAGATGTTTGGATTTGTCTTGGAAGACA		
11678	IS	[AG]		TGTATGGAACCAAAAA	ctg15590	7
11700	I		A	ACACGCAAGTGAACTGTCAGGCAAAAGTCA		
11700	P	C	A	ATGACGTGGCAGACCGGAAACAAACACAGCAY		
11700	P	T	A	CGCGCCGAGGTGGAAACAAACACAGCAAY		
11700	T	C	A	AAGATTGCTGTGTTTGTTTCCGGACTTTTGCCTGACAGTTCACTTGCGTGTAT		
11700	T	T	A	AAGATTGCTGTGTTTGTTTCCAGACTTTTGCCTGACAGTTCACTTGCGTGTAT		
				ACAACTGCAGTTTTAAAGTAACATTAAAAATACACGCAAGTGAACTGTCAGGCAAAAGTC[CT]GGAAACAAACACAGCAATCTTGAAATATTGCCAATAAGCCAAAA		
11700	IS	[CT]		GGAAAATGGTATAAAA	ctg15804	2
11710	I		A	TCCCCACACCCACTCTCATTGCCGACT		
11710	P	G	A	ATGACGTGGCAGACGTCCAGGCAGCTGGY		
11710	P	A	A	CGCGCCGAGGATCCAGGCAGCTGGY		
11710	T	G	A	CTGGCCAGCTGCCTGGACGTCGGCAATGAGAGTGGGTGTGGGGAGA		
11710	T	A	A	CTGGCCAGCTGCCTGGATGTCGGCAATGAGAGTGGGTGTGGGGAGA		
				TGGGTCCTGGCCCTGCCACGGGTCCAAGGTTCTCTCCCCACACCCACTCTCATTGCCGAC[GA]TCCAGGCAGCTGGCCAGGTCTGGGAGCTGTAATGAGCTGTT		
11710	IS	[GA]		GTACGCAAGGTCCATGTAG	ctg14708	2
11718	I		S	TGGTAATGACCTTCGACCACTGCAGGCCTTAC		
11718	P	C	S	ATGACGTGGCAGACGCGCGTGGAAATACAAY		
11718	P	A	S	CGCGCCGAGGTCGCGTGGAAATACAAATY		
11718	T	C	S	CCACATTTGTATTTCCACGCGCTAAGGCCTGCAGTGGTCGAAGGTCATTACCAGA		
11718	T	A	S	CCACATTTGTATTTCCACGCGATAAGGCCTGCAGTGGTCGAAGGTCATTACCAGA		
				TCCCTGGTGAGAGGGTTTCCATGAGAACACAGAGCAACTCCACATTTGTATTTCCACGCG[CA]TAAGGCCTGCAGTGGTCGAAGGTCATTACCAGAGAGCGCCGT		
11718	IS	[CA]		CCTGCTCTGGCAGAGTCT	ctg14708	2
11719	I		A	CTGAGTTCAGCTCGGCCCCAAAAGACATACAA		
11719	P	C	A	ATGACGTGGCAGACCCACCAACCGCCTY		
11719	P	T	A	CGCGCCGAGGTCACCAACCGCCTCY		
11719	T	C	A	CGAGGAGGCGGTTGGTGGTGTATGTCTTTTGGGGCCGAGCTGAACTCAGCA		
11719	T	T	A	CGAGGAGGCGGTTGGTGATGTATGTCTTTTGGGGCCGAGCTGAACTCAGCA		
11719	IS	[CT]		AAGACAGTTTAACCAACTAATTTATAATGCTGAGTTCAGCTCGGCCCCAAAAGACATACA[CT]CACCAACCGCCTCCTCGCGACAGAGCACGACACAAAAGT		
11737	I		A	CATTGTTTCGAGAACGTGATCGCCCTCATCTACCTT		
11737	P	G	A	ATGACGTGGCAGACGGCCTCACTGAGTGAAY		
11737	P	A	A	CGCGCCGAGGAGCCTCACTGAGTGAATAY		
11737	T	G	A	GTCGTATTCACTCAGTGAGGCCAGGTAGATGAGGGCGATCACGTTCTCGAAACAATGGA		
11737	T	A	A	GTCGTATTCACTCAGTGAGGCTAGGTAGATGAGGGCGATCACGTTCTCGAAACAATGGA		
				GAAGTCAGAGCGTAAGAAATGGATCCATTGTTTCGAGAACGTGATCGCCCTCATCTACCT[GA]GCCTCACTGAGTGAATACGACCAGTGCCTGGAGGAGAACAAC		
11737	IS	[GA]		CAGGAGGTGCGCCACCGC	ctg16564	19
11740	I		A	CCAAATTCATAATTTCCAGTCCAGTGGTGTTGGGGGT		
11740	P	G	A	ATGACGTGGCAGACGTGGGGCTTTTGGGY		
11740	P	A	A	CGCGCCGAGGATGGGGCTTTTGGGAY		
11740	T	G	A	CACCTCCCAAAAGCCCCACCCCCCAACACCACTGGACTGGAAATTATGAATTTGGGG		
11740	T	A	A	CACCTCCCAAAAGCCCCATCCCCCAACACCACTGGACTGGAAATTATGAATTTGGGG		
				CTTTGGTCTGAAGTTTGTGTCCCCCCAAATTCATAATTTCCAGTCCAGTGGTGTTGGGGG[GA]TGGGGCTTTTGGGAGGTGATAAGGTCGTGGGGGTGGAGCCC		
11740	IS	[GA]		TTATGAATGGGATTAGTGT	ctg16235	17
11769	I		A	GGCGCGCGCCAGCACACCA		
11769	P	T	A	CGCGCCGAGGTGGCTCATTTTTGTATTTTTAGTAY		
11769	P	C	A	ATGACGTGGCAGACCGGCTCATTTTTGTATTTTTAGTY		
11769	T	T	A	TCTGTACTAAAAATACAAAAATGAGCCAGGTGTGCTGGCGCGCGCCTG		
11769	T	C	A	TCTGTACTAAAAATACAAAAATGAGCCGGGTGTGCTGGCGCGCGCCTG		
				AGCGATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGGTTACAGGCGCGCGCCAGCACACC[TC]GGCTCATTTTTGTATTTTTAGTACAGACGGGGTTTCGCCATG	MULTIPLE	MULTIPLE
11769	IS	[TC]		TTAACCAGGCTGGTCTCC		
11770	I		A	CCCGTCTGCGTTTCCCTGAAGGCACTTT		
11770	P	C	A	ATGACGTGGCAGACCGCTGACAGAAAGGTGY		
11770	P	A	A	CGCGCCGAGGAGCTGACAGAAAGGTGAY		
11770	T	C	A	ACCTTCACCTTTCTGTCAGCGAAGTGCCTTCAGGGAAACGCAGACGGGGA		
11770	T	A	A	ACCTTCACCTTTCTGTCAGCTAAGTGCCTTCAGGGAAACGCAGACGGGGA		

FIGURE 129B

				CTGGCGCCTGCAGCACTGCCCTCCACCCCCGTCCCCGTCTGCGTTTCCCTGAAGGCACTT[CA]GCTGACAGAAAGGTGAAGGTGACTAGGGATAAGAGACTGAC			
11770	IS	[CA]		GGTCGCTAGAGCCACAATG	ctg13420	5	PCDHGC5
11771	I		S	GCTGTGCTGCACCCACGGCCAGT			
11771	P	T	S	CGCGCCGAGGACTGGGAACACTCAGCY			
11771	P	C	S	ATGACGTGGCAGACGCTGGGAACACTCAGY			
11771	T	T	S	GGGGGCTGAGTGTTCCCAGTCTGGCCGTGGGTGCAGCACAGCTG			
11771	T	C	S	GGGGGCTGAGTGTTCCCAGCCTGGCCGTGGGTGCAGCACAGCTG			
				GTGACCAAGGAGCCAGGAGGAGCAGAGCGAGGGAGACGCTGGGGGGCTGAGTGTTCCCAG[TC]CTGGCCGTGGGTGCAGCACAGCTGGGGCATTATCATTCTC			
11771	IS	[TC]		GTCTAGGACAAACACATGCA	ctg13420	5	PCDHGC5
12180	I		A	AAACTAAGCCCTAGAATAGTGGGCTAGCATTTCTCA			
12180	P	C	A	ATGACGTGGCAGACCATATTGTCTGGCCCATCY			
12180	P	T	A	CGCGCCGAGGTATATTGTCTGGCCCATCAY			
12180	T	C	A	GTACTGATGGGCCAGACAATATGGAGAAATGCTAGCCCACTATTCTAGGGCTTAGTTTCT			
12180	T	T	A	GTACTGATGGGCCAGACAATATAGAGAAATGCTAGCCCACTATTCTAGGGCTTAGTTTCT			
				CATGGGACCTGTTATATAGATAGAGAAACTAAGCCCTAGAATAGTGGGCTAGCATTTCTC[CT]ATATTGTCTGGCCCATCAGTACCCCAACTGGGATCAAAATCCA			
12180	IS	[CT]		GGCATCTCTCAAAAAAC	MULTIPLE	17	
12188	I		A	CAAGATAACTCGTCTTGGCAAGGGAAACAGGTCTGAT			
12188	P	A	A	CGCGCCGAGGATGTCCTTATCTCCGCTY			
12188	P	G	A	ATGACGTGGCAGACGTGTCCTTATCTCCGCTY			
12188	T	A	A	CAGCAGCGGAGATAAGGACATTCAGACCTGTTTCCCTTGCCAAGACGAGTTATCTTGAC			
12188	T	G	A	CAGCAGCGGAGATAAGGACACTCAGACCTGTTTCCCTTGCCAAGACGAGTTATCTTGAC			
				TGTCATGGAGTCATACTTGCTAGTCAAGATAACTCGTCTTGGCAAGGGAAACAGGTCTGA[AG]TGTCCTTATCTCCGCTGCTGGGAACCCCCTAGGCGCCTTGCC			
12188	IS	[AG]		AAGGCCGCACATGAGGCA			
12194	I		S	GCGGAGACTCACCTGCTGTGCAGAGAAT			
12194	P	C	S	ATGACGTGGCAGACGGTCGAGCTGTTCAGY			
12194	P	T	S	CGCGCCGAGGAGTCGAGCTGTTCAGCY			
12194	T	C	S	AGAGGCTGAACAGCTCGACCTTCTCTGCACAGCAGGTGAGTCTCCGCAT			
12194	T	T	S	AGAGGCTGAACAGCTCGACTTTCTCTGCACAGCAGGTGAGTCTCCGCAT			
				TATATAAATACCAGCTAACAAGAGACTCTTCACCAGATCCCAGAGGCTGAACAGCTCGAC[CT]TTCTCTGCACAGCAGGTGAGTCTCCGCATTGGGAACACCTTAA			
12194	IS	[CT]		TATTCTCCAATAGTTTC	ctg13313	1	
12215	I		A	CAGAAGTGGAAGGGGTCAGTGTGTTCTCTCCTGA			
12215	P	T	A	CGCGCCGAGGTCGCCATGTTTGTGATAATY			
12215	P	C	A	ATGACGTGGCAGACCCGCCATGTTTGTGATAY			
12215	T	T	A	GAAAATTATCACAAACATGGCGACAGGAGAGAACACACTGACCCCTTCCACTTCTGGA			
12215	T	C	A	GAAAATTATCACAAACATGGCGGCAGGAGAGAACACACTGACCCCTTCCACTTCTGGA			
				GGAAGAACAGGGTCTGATTTCTGTCTCCAGAAGTGGAAGGGGTCAGTGTGTTCTCTCCTG[TC]CGCCATGTTTGTGATAATTTTCTCCAGCAACAACAGGAAACCA			
12215	IS	[TC]		ACACAGGAACCCAGGTG	ctg16318	19	
12222	I		A	CTGCCCATGCTGTCTCCTTGCTTCCCT			
12222	P	G	A	ATGACGTGGCAGACGCTCAGCTCGCTCAY			
12222	P	A	A	CGCGCCGAGGACTCAGCTCGCTCAGY			
12222	T	G	A	CCTTCTGAGCGAGCTGAGCGGGAAGCAAGGAGACAGCATGGGCAGGG			
12222	T	A	A	CCTTCTGAGCGAGCTGAGTGGGAAGCAAGGAGACAGCATGGGCAGGG			
				CCTGCCCCGCACCCTTGCCCTGCCCTGCCCTGCCCTGCCCATGCTGTCTCCTTGCTTCCC[GA]CTCAGCTCGCTCAGAAGGGCCCCTCCCAGACAGCGGCCGCG			
12222	IS	[GA]		TCAGCTTCCTGGGCCTGGA			
12246	I		S	CTGAGCACCTGAGATGCAGCAACCAGAGAAA			
12246	P	G	S	ATGACGTGGCAGACCTGAATCCTCCTCTACTGAY			
12246	P	A	S	CGCGCCGAGGTTGAATCCTCCTCTACTGAAY			
12246	T	G	S	CACGTTCAGTAGAGGAGGATTCAGTTCTCTGGTTGCTGCATCTCAGGTGCTCAGTA			
12246	T	A	S	CACGTTCAGTAGAGGAGGATTCAATTCTCTGGTTGCTGCATCTCAGGTGCTCAGTA			
				TGAGCCCTAGCCATGTGAGACCACTGACACTTAATGTCACGTTCAGTAGAGGAGGATTCA[GA]TTCTCTGGTTGCTGCATCTCAGGTGCTCAGTAGCTAGGTCAG			
12246	IS	[GA]		CTGGGAGCTGTCATGGCA	ctg25448	18	
12261	I		A	GGCTGGGCTGACTCCTGGCCTCTAA			
12261	P	T	A	CGCGCCGAGGTTTCTGGGCTCCTGGY			
12261	P	C	A	ATGACGTGGCAGACCTTCTGGGCTCCTGGY			
12261	T	T	A	AAGTCCAGGAGCCCAGAAATAGAGGCCAGGAGTCAGCCCAGCCAC			
12261	T	C	A	AAGTCCAGGAGCCCAGAAGTAGAGGCCAGGAGTCAGCCCAGCCAC			
				AAAAAGAAGGAAACTGTCGGTTACCAGGCTCCTAGTGGCTGGGCTGACTCCTGGCCTCTA[TC]TTCTGGGCTCCTGGACTTTTAGCTCCCCGCTGCACTTACCAG			
12261	IS	[TC]		GGCTCCCTGCCCTAGGGT	ctg15053	16	
12281	I		A	GGCCGCCTCGCAGCAGATTTGTAGTCTT			
12281	P	G	A	ATGACGTGGCAGACGGTTGCTGTCGTTCCY			
12281	P	A	A	CGCGCCGAGGAGTTGCTGTCGTTCCTY			
12281	T	G	A	TTTCAGGAACGACAGCAACCAGACTACAAATCTGCTGCGAGGCGGCCTG			
12281	T	A	A	TTTCAGGAACGACAGCAACTAGACTACAAATCTGCTGCGAGGCGGCCTG			
				CTTTTCTTCAGCCTTGGAGAGGATGGCTTCTCAGGCCGCCTCGCAGCAGATTTGTAGTCT[GA]GTTGCTGTCGTTCCTGAAATAGCCTCTGAAGCTCTGTCCGGG			
12281	IS	[GA]		AAGGGAACCTTGAGTGTG	ctg832	11	
12286	I		S	CCTGTGGGTAGGGGCTCAGGCCCA			
12286	P	G	S	ATGACGTGGCAGACCGGTGCTCATCCCTY			
12286	P	A	S	CGCGCCGAGGTGGTGCTCATCCCTGY			
12286	T	G	S	CACTCAGGGATGAGCACCGGGGCCTGAGCCCCTACCCACAGGGT			
12286	T	A	S	CACTCAGGGATGAGCACCAGGGCCTGAGCCCCTACCCACAGGGT			
				GCTCCCCTCGGGTGGGTCCTGCTGCCTCTGCCTTTACCTGGGCACTCAGGGATGAGCACC[GA]GGGCCTGAGCCCCTACCCACAGGGTACAGCTCTTTTTCTTT			
12286	IS	[GA]		AATAGACAGTATTTTTTTC			
12291	I		A	CTGGAGACTCATTGACCCACTGCTGTACCTTCTTCT			
12291	P	C	A	ATGACGTGGCAGACCTCTCACTCACTGCCCY			
12291	P	A	A	CGCGCCGAGGATCTCACTCACTGCCCY			
12291	T	C	A	CAGTGGGCAGTGAGTGAGAGGAAGAAGGTACAGCAGTGGGTCAATGAGTCTCCAGTG			
12291	T	A	A	CAGTGGGCAGTGAGTGAGATGAAGAAGGTACAGCAGTGGGTCAATGAGTCTCCAGTG			
				GGCCCTGCACAGAGGATGGCGCACACTGGAGACTCATTGACCCACTGCTGTACCTTCTTC[CA]TCTCACTCACTGCCCACTGCGTTTTTCTCTTCCTTGCAGGGG			
12291	IS	[CA]		GCTCCTGCTCCTGTGCCA	ctg15972	16	
12292	I		A	GGATGGCTGTAAAGGCTCAACCTCCCCCA			
12292	P	C	A	ATGACGTGGCAGACCCAACGCCTCATCTCTY			
12292	P	T	A	CGCGCCGAGGTCAACGCCTCATCTCTY			
12292	T	C	A	AGGCAGAGATGAGGCGTTGGGGGGGAGGTTGAGCCTTTACAGCCATCCAC			
12292	T	T	A	AGGCAGAGATGAGGCGTTGAGGGGGAGGTTGAGCCTTTACAGCCATCCAC			
				CCCACAGCCCGCCAGTGCTGCCATCGCTCTGTGGATGGCTGTAAAGGCTCAACCTCCCCC[CT]CAACGCCTCATCTCTGCCTTCACCCTCAGCGCCCTTCGGTCC			
12292	IS	[CT]		ACACCCAGCACAGCGGCC	ctg21fin5	21	
12293	I		A	CATGCACATGGCCTGTGCTGCGATACCT			
12293	P	G	A	ATGACGTGGCAGACGGTGCTCTGTGAGTGGY			
12293	P	A	A	CGCGCCGAGGAGTGCTCTGTGAGTGGY			
12293	T	G	A	CCAGCCACTCACAGAGCACCGGTATCGCAGCACAGGCCATGTGCATGGC			
12293	T	A	A	CCAGCCACTCACAGAGCACTGGTATCGCAGCACAGGCCATGTGCATGGC			
				CTCGGCAGGCTCACTGTGGAGCTGTGTTGCAGCCATGCACATGGCCTGTGCTGCGATACC[GA]GTGCTCTGTGAGTGGCTGGTGTCTGCTCCTGCGTGCCCCAC			
12293	IS	[GA]		ATGGTGGCCAGTGGGGACT	ctg21fin5	21	
12296	I		A	GTCCGTTGACAATTGACACAAACACATGCCTCTGTCA			
12296	P	C	A	ATGACGTGGCAGACCGCTGACGGAAACCY			
12296	P	T	A	CGCGCCGAGGTGCTGACGGAAACCAY			
12296	T	C	A	TTCATGGTTTCCGTCAGCGGACAGAGGCATGTGTTTGTGTCAATTGTCAACGGACTT			
12296	T	T	A	TTCATGGTTTCCGTCAGCAGACAGAGGCATGTGTTTGTGTCAATTGTCAACGGACTT			

FIGURE 129B

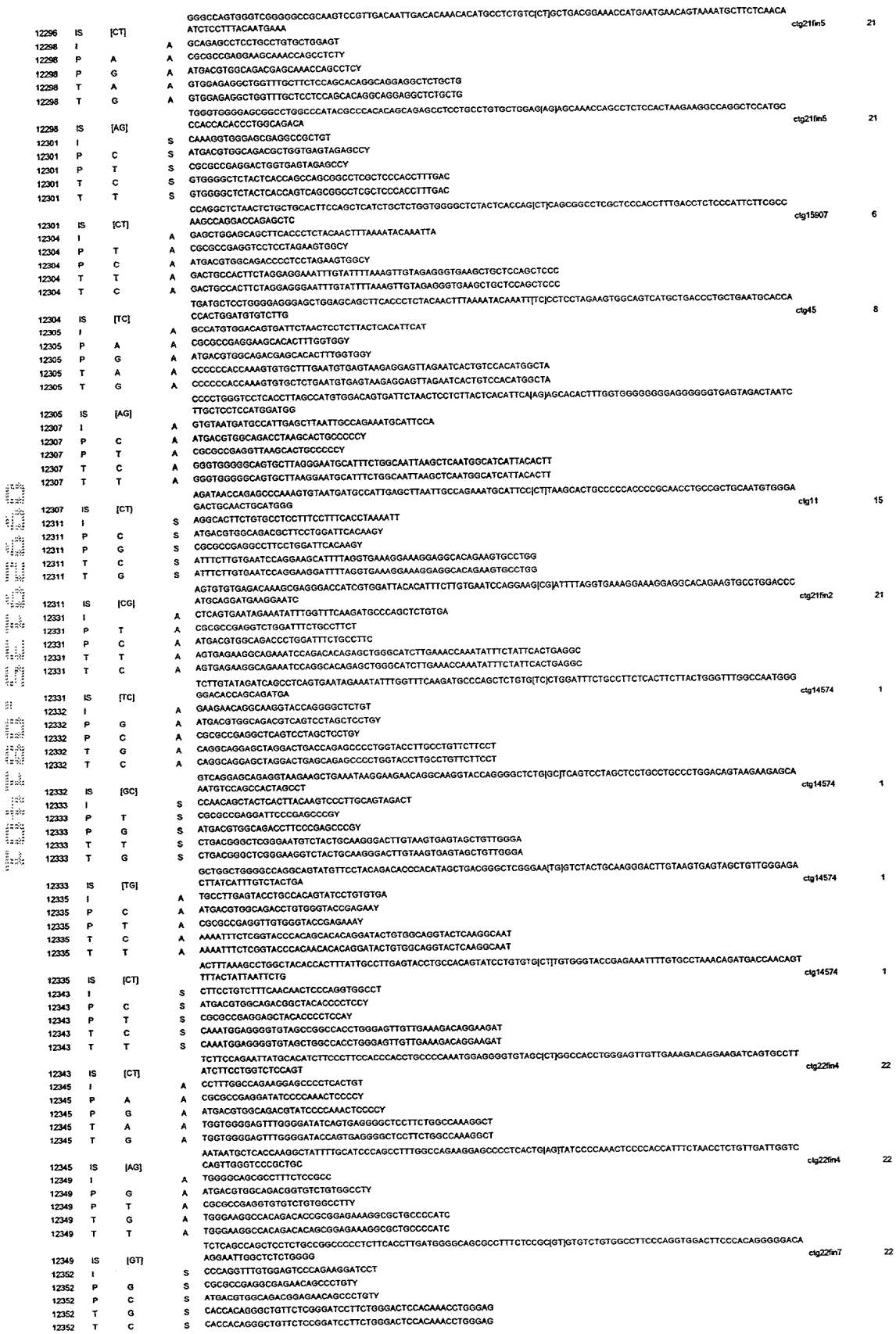

GGGCCAGTGGGTCGGGGGCCGCAAGTCCGTTGACAATTGACACAAACACATGCCTCTGTC[CT]GCTGACGGAAACCATGAATGAACAGTAAAATGCTTCTCAACA
ATCTCCTTTACAATGAAA
ctg21fin5
21
12296 IS [CT]
12298 I A GCAGAGCCTCCTGCCTGTGCTGGAGT
12298 P A A CGCGCCGAGGAAGCAAACCAGCCTCTY
12298 P G A ATGACGTGGCAGACGAGCAAACCAGCCTCY
12298 T A A GTGGAGAGGCTGGTTTGCTTCTCCAGCACAGGCAGGAGGCTCTGCTG
12298 T G A GTGGAGAGGCTGGTTTGCTCCTCCAGCACAGGCAGGAGGCTCTGCTG
TGGGTGGGGAGCGGCCTGGCCCATACGCCCACACAGCAGAGCCTCCTGCCTGTGCTGGAG[AG]AGCAAACCAGCCTCTCCACTAAGAAGGCCAGGCTCCATGC
CCACCACACCCTGGCAGACA
ctg21fin5
21
12298 IS [AG]
12301 I S CAAAGGTGGGAGCGAGGCCGCTGT
12301 P C S ATGACGTGGCAGACGCTGGTGAGTAGAGCCY
12301 P T S CGCGCCGAGGACTGGTGAGTAGAGCCY
12301 T C S GTGGGGCTCTACTCACCAGCCAGCGGCCTCGCTCCCACCTTTGAC
12301 T T S GTGGGGCTCTACTCACCAGTCAGCGGCCTCGCTCCCACCTTTGAC
CCAGGCTCTAACTCTGCTGCACTTCCAGCTCATCTGCTCTGGTGGGGCTCTACTCACCAG[CT]CAGCGGCCTCGCTCCCACCTTTGACCTCTCCCATTCTTCGCC
AAGCCAGGACCAGAGCTC
ctg15907
6
12301 IS [CT]
12304 I A GAGCTGGAGCAGCTTCACCCTCTACAACTTTAAAATACAAATTA
12304 P T A CGCGCCGAGGTCCTCCTAGAAGTGGCY
12304 P C A ATGACGTGGCAGACCCCTCCTAGAAGTGGCY
12304 T T A GACTGCCACTTCTAGGAGGAAATTTGTATTTTAAAGTTGTAGAGGGTGAAGCTGCTCCAGCTCCC
12304 T C A GACTGCCACTTCTAGGAGGGAATTTGTATTTTAAAGTTGTAGAGGGTGAAGCTGCTCCAGCTCCC
TGATGCTCCTGGGGAGGGAGCTGGAGCAGCTTCACCCTCTACAACTTTAAAATACAAATT[TC]CCTCCTAGAAGTGGCAGTCATGCTGACCCTGCTGAATGCACCA
CCACTGGATGTGTCTTG
ctg45
8
12304 IS [TC]
12305 I A GCCATGTGGACAGTGATTCTAACTCCTCTTACTCACATTCAT
12305 P A A CGCGCCGAGGAAGCACACTTTGGTGGY
12305 P G A ATGACGTGGCAGACGAGCACACTTTGGTGGY
12305 T A A CCCCCCACCAAAGTGTGCTTTGAATGTGAGTAAGAGGAGTTAGAATCACTGTCCACATGGCTA
12305 T G A CCCCCCACCAAAGTGTGCTCTGAATGTGAGTAAGAGGAGTTAGAATCACTGTCCACATGGCTA
CCCCTGGGTCCTCACCTTAGCCATGTGGACAGTGATTCTAACTCCTCTTACTCACATTC[AG]AGCACACTTTGGTGGGGGGGGAGGGGGGTGAGTAGACTAATC
TTGCTCCTCCATGGATGG
12305 IS [AG]
12307 I A GTGTAATGATGCCATTGAGCTTAATTGCCAGAAATGCATTCCA
12307 P C A ATGACGTGGCAGACCTAAGCACTGCCCCCY
12307 P T A CGCGCCGAGGTTAAGCACTGCCCCCY
12307 T C A GGGTGGGGGCAGTGCTTAGGGAATGCATTTCTGGCAATTAAGCTCAATGGCATCATTACACTT
12307 T T A GGGTGGGGGCAGTGCTTAAGGAATGCATTTCTGGCAATTAAGCTCAATGGCATCATTACACTT
AGATAACCAGAGCCCAAAGTGTAATGATGCCATTGAGCTTAATTGCCAGAAATGCATTCC[CT]TAAGCACTGCCCCCACCCCGCAACCTGCCGCTGCAATGTGGGA
GACTGCAACTGCATGGG
ctg11
15
12307 IS [CT]
12311 I S AGGCACTTCTGTGCCTCCTTTCCTTTCACCTAAAATT
12311 P C S ATGACGTGGCAGACGCTTCCTGGATTCACAAGY
12311 P G S CGCGCCGAGGCCTTCCTGGATTCACAAGY
12311 T C S ATTTCTTGTGAATCCAGGAAGCATTTTAGGTGAAAGGAAAGGAGGCACAGAAGTGCCTGG
12311 T G S ATTTCTTGTGAATCCAGGAAGGATTTTAGGTGAAAGGAAAGGAGGCACAGAAGTGCCTGG
AGTGTGTGAGACAAAGCGAGGGACCATCGTGGATTACACATTTCTTGTGAATCCAGGAAG[CG]ATTTTAGGTGAAAGGAAAGGAGGCACAGAAGTGCCTGGACCC
ATGCAGGATGAAGGAATC
ctg21fin2
21
12311 IS [CG]
12331 I A CTCAGTGAATAGAAATATTTGGTTTCAAGATGCCCAGCTCTGTGA
12331 P T A CGCGCCGAGGTCTGGATTTCTGCCTTCT
12331 P C A ATGACGTGGCAGACCCTGGATTTCTGCCTTC
12331 T T A AGTGAGAAGGCAGAAATCCAGACACAGAGCTGGGCATCTTGAAACCAAATATTTCTATTCACTGAGGC
12331 T C A AGTGAGAAGGCAGAAATCCAGGCACAGAGCTGGGCATCTTGAAACCAAATATTTCTATTCACTGAGGC
TCTTGTATAGATCAGCCTCAGTGAATAGAAATATTTGGTTTCAAGATGCCCAGCTCTGTG[TC]CTGGATTTCTGCCTTCTCACTTCTTACTGGGTTTGGCCAATGGG
GGACACCAGCAGATGA
ctg14574
1
12331 IS [TC]
12332 I A GAAGAACAGGCAAGGTACCAGGGGCTCTGT
12332 P G A ATGACGTGGCAGACGTCAGTCCTAGCTCCTGY
12332 P C A CGCGCCGAGGCTCAGTCCTAGCTCCTGY
12332 T G A CAGGCAGGAGCTAGGACTGACCAGAGCCCCTGGTACCTTGCCTGTTCTTCCT
12332 T C A CAGGCAGGAGCTAGGACTGAGCAGAGCCCCTGGTACCTTGCCTGTTCTTCCT
GTCAGGAGCAGAGGTAAGAAGCTGAAATAAGGAAGAACAGGCAAGGTACCAGGGGCTCTG[GC]TCAGTCCTAGCTCCTGCCTGCCCTGGACAGTAAGAAGAGCA
AATGTCCAGCCACTAGCCT
ctg14574
1
12332 IS [GC]
12333 I S CCAACAGCTACTCACTTACAAGTCCCTTGCAGTAGACT
12333 P T S CGCGCCGAGGATTCCCGAGCCCGY
12333 P G S ATGACGTGGCAGACCTTCCCGAGCCCGY
12333 T T S CTGACGGGCTCGGGAATGTCTACTGCAAGGGACTTGTAAGTGAGTAGCTGTTGGGA
12333 T G S CTGACGGGCTCGGGAAGGTCTACTGCAAGGGACTTGTAAGTGAGTAGCTGTTGGGA
GCTGGCTGGGGCCAGGCAGTATGTTCCTACAGACACCCACATAGCTGACGGGCTCGGGAA[TG]GTCTACTGCAAGGGACTTGTAAGTGAGTAGCTGTTGGGAGA
CTTATCATTTGTCTACTGA
ctg14574
1
12333 IS [TG]
12335 I A TGCCTTGAGTACCTGCCACAGTATCCTGTGTGA
12335 P C A ATGACGTGGCAGACCTGTGGGTACCGAGAAY
12335 P T A CGCGCCGAGGTTGTGGGTACCGAGAAAY
12335 T C A AAAATTTCTCGGTACCCACAACACACAGGATACTGTGGCAGGTACTCAAGGCAAT
12335 T T A AAAATTTCTCGGTACCCACAACACACAGGATACTGTGGCAGGTACTCAAGGCAAT
ACTTTAAAGCCTGGCTACACCACTTTATTGCCTTGAGTACCTGCCACAGTATCCTGTGTG[CT]TGTGGGTACCGAGAAATTTTGTGCCTAAACAGATGACCAACAGT
TTTACTATTAATTCTG
ctg14574
1
12335 IS [CT]
12343 I S CTTCCTGTCTTTCAACAACTCCCAGGTGGCCT
12343 P C S ATGACGTGGCAGACGGCTACACCCCTCCY
12343 P T S CGCGCCGAGGAGCTACACCCCTCCAY
12343 T C S CAAATGGAGGGGTGTAGCCGGCCACCTGGGAGTTGTTGAAAGACAGGAAGAT
12343 T T S CAAATGGAGGGGTGTAGCTGGCCACCTGGGAGTTGTTGAAAGACAGGAAGAT
TCTTCCAGAATTATGCACATCTTCCCTTCCACCCACCTGCCCCAAATGGAGGGGTGTAGC[CT]GGCCACCTGGGAGTTGTTGAAAGACAGGAAGATCAGTGCCTT
ATCTTCCTGGTCTCCAGT
ctg22fin4
22
12343 IS [CT]
12345 I A CCTTTGGCCAGAAGGAGCCCCTCACTGT
12345 P A A CGCGCCGAGGATATCCCCAAACTCCCCY
12345 P G A ATGACGTGGCAGACGTATCCCCAAACTCCCCY
12345 T A A TGGTGGGGAGTTTGGGGATATCAGTGAGGGGCTCCTTCTGGCCAAAGGCT
12345 T G A TGGTGGGGAGTTTGGGGATACCAGTGAGGGGCTCCTTCTGGCCAAAGGCT
AATAATGCTCACCAAGGCTATTTTGCATCCCAGCCTTTGGCCAGAAGGAGCCCCTCACTG[AG]TATCCCCAAACTCCCCACCATTTCTAACCTCTGTTGATTGGTC
CAGTTGGGTCCCGCTGC
ctg22fin4
22
12345 IS [AG]
12349 I A TGGGGCAGCGCCTTTCTCCGCC
12349 P G A ATGACGTGGCAGACGGTGTCTGTGGCCTY
12349 P T A CGCGCCGAGGTGTGTCTGTGGCCTTY
12349 T G A TGGGAAGGCCACAGACACAGCGGAGAAAGGCGCTGCCCCATC
12349 T T A TGGGAAGGCCACAGACACAGCGGAGAAAGGCGCTGCCCCATC
TCTCAGCCAGCTCCTCTGCCGGCCCCCTCTTCACCTTGATGGGGCAGCGCCTTTCTCCGC[GT]GTGTCTGTGGCCTTCCCAGGTGGACTTCCCACAGGGGGACA
AGGAATTGGCTCTCTGGGG
ctg22fin7
22
12349 IS [GT]
12352 I S CCCAGGTTTGTGGAGTCCCAGAAGGATCCT
12352 P G S CGCGCCGAGGCGAGAACAGCCCTGTY
12352 P C S ATGACGTGGCAGACGGAGAACAGCCCTGTY
12352 T G S CACCACAGGGCTGTTCTCGGGATCCTTCTGGGACTCCACAAACCTGGGAG
12352 T C S CACCACAGGGCTGTTCTCCGGATCCTTCTGGGACTCCACAAACCTGGGAG

FIGURE 129B

				CCCATCTAGTGAGCTGCAGCCGGGACCCCCATTGAGCCAAAGCACCACAGGGCTGTTCTC[GC]GGATCCTTCTGGGACTCCACAAACCTGGGAGGGGGGTCAG		
12352	IS	[GC]		GGCAGGGTTGGCGCAGTTGG	ctg15665	20
12354	I		S	GCACTTACCTATTTCCATGGTATAAATACTCTCCAATACCATCT		
12354	P	C	S	ATGACGTGGCAGACGCCAATTTCAAGCTATCAGY		
12354	P	T	S	CGCGCCGAGGACCAATTTCAAGCTATCAGTY		
12354	T	C	S	TCACACTGATAGCTTGAAATTGGCGATGGTATTGGAGAGTATTTATACCATGGAAATAGGTAAGTGCTA		
12354	T	T	S	TCACACTGATAGCTTGAAATTGGTGATGGTATTGGAGAGTATTTATACCATGGAAATAGGTAAGTGCTA		
				TTGTGTGCATCTCTTCCTAATTCTGTGTTCAGTGACTTCACACTGATAGCTTGAAATTGG[CT]GATGGTATTGGAGAGTATTTATACCATGGAAATAGGTAAGTGCT		
12354	IS	[CT]		ACAAATCAGGAGAGCC	ctg15361	6
12355	I		A	CTCTGTGATGTTTGCCGTATTTCTCTACTGTTAATTACTTGAGTGTTTTCAA		
12355	P	T	A	CGCGCCGAGGTGAAATTCACTTTTTTTTGTCCTY		
12355	P	C	A	ATGACGTGGCAGACCGAAATTCACTTTTTTTTGTCCY		
12355	T	T	A	ATTTAGGACAAAAAAAAAGTGAATTTCATGAAAACACTCAAGTAATTAACAGTAGAGAAATACGGCAAACATCACAGAGGT		
12355	T	C	A	ATTTAGGACAAAAAAAAGTGAATTTCGTGAAAACACTCAAGTAATTAACAGTAGAGAAATACGGCAAACATCACAGAGGT		
				TGTTACCACCTCTGTGATGTTTGCCGTATTTCTCTACTGTTAATTACTTGAGTGTTTTCA[TC]GAAATTCACTTTTTTTTGTCCTAAATAAAAACATCTGCGAAATCAC		
12355	IS	[TC]		CAGTTTGGTATTCC	ctg15361	6
12356	I		A	GGTCACCTCGCTCGACCACGCCT		
12356	P	G	A	ATGACGTGGCAGACGCCTCCTAGCCCCY		
12356	P	A	A	CGCGCCGAGGACCTCCTAGCCCCTY		
12356	T	G	A	GGCGAGGGGCTAGGAGGCGGCGTGGTCGAGCGAGGTGACCTG		
12356	T	A	A	GGCGAGGGGCTAGGAGGTGGCGTGGTCGAGCGAGGTGACCTG		
				CCATGATCACGCGGGACCGTGACCTCATTTCCCTCGCAGGTCACCTCGCTCGACCACGCC[GA]CCTCCTAGCCCCTCGCCTGCCGTCCGCGTTTAGTGAGCAAT		
12356	IS	[GA]		CCCTCACACCTCCGACCAT	ctg16955	1
12359	I		S	CCTCCAGGAACATGCCCCCTGATGCA		
12359	P	A	S	CGCGCCGAGGTGTCATGAGCTCTGGGY		
12359	P	G	S	ATGACGTGGCAGACCGTCATGAGCTCTGGGY		
12359	T	A	S	CAAACCCAGAGCTCATGACAGCATCAGGGGGCATGTTCCTGGAGGGC		
12359	T	G	S	CAAACCCAGAGCTCATGACGGCATCAGGGGGCATGTTCCTGGAGGGC		
				TGTACTGTACTGGAGCTATGATACATAACCGTGAAGCTGTGCAAACCCAGAGCTCATGAC[AG]GCATCAGGGGGCATGTTCCTGGAGGGCACAGGGCTGGAAATC		
12359	IS	[AG]		TTCATGGGGCCCCACAGT	ctg16128	1
12360	I		S	CCCTTCTGCCAGGCTGGGCAA		
12360	P	A	S	CGCGCCGAGGTGGTGGCTCACACCY		
12360	P	G	S	ATGACGTGGCAGACCGGTGGCTCACACCY		
12360	T	A	S	AACAGGTGTGAGCCACCATGCCCAGCCTGGCAGAAGGGTA		
12360	T	G	S	AACAGGTGTGAGCCACCGTGCCCAGCCTGGCAGAAGGGTA		
				GCTCAAGCAATTCTCCTGTCTTGGCCACCCAAAGTGCTCGGATAACAGGTGTGAGCCACC[AG]TGCCCAGCCTGGCAGAAGGGTATTTAAATAAAGGATGAGAAT		
12360	IS	[AG]		CCTGGGGAAGCTTTGGGG	ctg16128	1
12365	I		A	GCCACAGCCAACCTGAACGGGGAGT		
12365	P	A	A	CGCGCCGAGGAGAGTGACAGCGGCY		
12365	P	G	A	ATGACGTGGCAGACGGAGTGACAGCGGCY		
12365	T	A	A	CCTCGCCGCTGTCACTCTCTCCCCGTTCAGGTTGGCTGTGGCTG		
12365	T	G	A	CCTCGCCGCTGTCACTCCCTCCCCGTTCAGGTTGGCTGTGGCTG		
				TGGGGACTCGAGCAGGGGAGCCTGTGTCTGCGGGCAGCCACAGCCAACCTGAACGGGGAG[AG]GAGTGACAGCGGCGAGGGTGGGGGACGGCGGGGACTTG		
12365	IS	[AG]		GCGTAACTTCTTACAGGACTTA	ctg13446	1
12367	I		S	GTGTGGCTTCGTGTCTCTGTGCTGTGTGATA		
12367	P	G	S	ATGACGTGGCAGACCGTGGGTCTTGGCTY		
12367	P	A	S	CGCGCCGAGGTGTGGGTCTTGGCTTY		
12367	T	G	S	CGGGAAGCCAAGACCCACGATCACACAGCACAGAGACACGAAGCCACACAA		
12367	T	A	S	CGGGAAGCCAAGACCCACAATCACACAGCACAGAGACACGAAGCCACACAA		
				GGATATCTCAGAAACCTTCTGCTCCAGCCTCCCTGACAAGCGCGGGAAGCCAAGACCCAC[GA]ATCACACAGCACAGAGACACGAAGCCACACAACCACCAGAGG		
12367	IS	[GA]		AAGGAGAAAGCAGGAGTC	ctg22fin4	22
12371	I		S	ACACTGAAACGCAGTTATCTCATCTCTAAAATGGAGATACTAT		
12371	P	C	S	ATGACGTGGCAGACGTAGAGCTCTCTTCATAATTGTAY		
12371	P	T	S	CGCGCCGAGGATAGAGCTCTCTTCATAATTGTAAY		
12371	T	C	S	ATCCTTACAATTATGAAGAGAGCTCTACTAGTATCTCCATTTTAGAGATGAGATAACTGCGTTTCAGTGTAG		
12371	T	T	S	ATCCTTACAATTATGAAGAGAGCTCTATTAGTATCTCCATTTTAGAGATGAGATAACTGCGTTTCAGTGTAG		
				CTGCTAAGGCTCTGGCATATATTATTTCATTTTATCCTTACAATTATGAAGAGAGCTCTA[CT]TAGTATCTCCATTTTAGAGATGAGATAACTGCGTTTCAGTGTAGT		
12371	IS	[CT]		TAATAACTTTACTAA	ctg13446	1
12373	I		A	CCCCAGCCACTTTACTTAGTGCTTTCTCACTTAAACTTCCC		
12373	P	T	A	CGCGCCGAGGTAATAAGCCATTTGCATCTCAY		
12373	P	A	A	ATGACGTGGCAGACAAATAAGCCATTTGCATCTCY		
12373	T	T	A	TTCATGAGATGCAAATGGCTTATTAGGAAGTTTAAGTGAGAAAGCACTAAGTAAAGTGGCTGGGGGG		
12373	T	A	A	TTCATGAGATGCAAATGGCTTATTTGGAAGTTTAAGTGAGAAAGCACTAAGTAAAGTGGCTGGGGGG		
				GGTGGGGGGACACATTCACCCCCCAGCCACTTTACTTAGTGCTTTCTCACTTAAACTTCC[TA]AATAAGCCATTTGCATCTCATGAATCAGGAAGAAAGGGAGTGC		
12373	IS	[TA]		AGACAGATCAGGGGACT	ctg13960	1
12375	I		A	GAGTAGACACCCCTGTGTCAGTAGTCTTTCTTGGTCTCT		
12375	P	A	A	CGCGCCGAGGACATCTTTTTCTGCACCTGY		
12375	P	G	A	ATGACGTGGCAGACGCATCTTTTTCTGCACCTY		
12375	T	A	A	GAAGCAGGTGCAGAAAAAGATGTGAGACCAAGAAAGACTACTGACACAGGGGTGTCTACTCTT		
12375	T	G	A	GAAGCAGGTGCAGAAAAAGATGCGAGACCAAGAAAGACTACTGACACAGGGGTGTCTACTCTT		
				GTGTGGTCCAGGGAAGCCAAAAGAGTAGACACCCCTGTGTCAGTAGTCTTTCTTGGTCTC[AG]CATCTTTTTCTGCACCTGCTTCCCTCTTTGTTTTCCGTTGCTT		
12375	IS	[AG]		CACTCAACTTAGCTGTA	ctg13980	1
12376	I		S	AAGGAGGAGATCCCTTCTCCAGCCCAGTA		
12376	P	G	S	ATGACGTGGCAGACCCCACTGCCCCTCY		
12376	P	A	S	CGCGCCGAGGTCCACTGCCCCTCY		
12376	T	G	S	TTTGGAGGGGCAGTGGGACTGGGCTGGAGAAGGGATCTCCTCCTTCT		
12376	T	A	S	TTTGGAGGGGCAGTGGAACTGGGCTGGAGAAGGGATCTCCTCCTTCT		
				TTCCGTTGCTTCACTCAACTTAGCTGTACTCTCTGCCTTTGTTCTTTGGAGGGGCAGTGG[GA]ACTGGGCTGGAGAAGGGATCTCCTCCTTCTGCGCTTTTCTGCT		
12376	IS	[GA]		GTGCATTCACGTACTGC	ctg13980	1
12377	I		S	AGCTGAATAGCTAATAAGCGGCCCTTCTAATACTATGCTTACTGTTAT		
12377	P	C	S	ATGACGTGGCAGACGACCCATTTCTATGTAAGAAAGAY		
12377	P	T	S	CGCGCCGAGGAACCCATTTCTATGTAAGAAAGAY		
12377	T	C	S	AGATTCTTTCTTACATAGAAATGGGTCTAACAGTAAGCATAGTATTAGAAGGGCCGCTTATTAGCTATTCAGCTTT		
12377	T	T	S	AGATTCTTTCTTACATAGAAATGGGTTTAACAGTAAGCATAGTATTAGAAGGGCCGCTTATTAGCTATTCAGCTTT		
				GGTTCCTGGTGTTCGTGGACTTCAGTGGTCACCAAGATTCTTTCTTACATAGAAATGGGT[CT]TAACAGTAAGCATAGTATTAGAAGGGCCGCTTATTAGCTATTCA		
12377	IS	[CT]		GCTTTAATATTTCTAA	ctg13980	1
12378	I		S	CACGATCACTGCTGCACCATGTTCCCACA		
12378	P	G	S	ATGACGTGGCAGACCGGATCTTCCTTCCAGAY		
12378	P	A	S	CGCGCCGAGGTGGATCTTCCTTCCAGAAY		
12378	T	G	S	GGTTTTCTGGAAGGAAGATCCGGTGGGAACATGGTGCAGCAGTGATCGTGCC		
12378	T	A	S	GGTTTTCTGGAAGGAAGATCCAGTGGGAACATGGTGCAGCAGTGATCGTGCC		
				CATACCCAGAAGGCACCTTGATGTTTTTACTGATGCCGGGGTTTTCTGGAAGGAAGATCC[GA]GTGGGAACATGGTGCAGCAGTGATCGTGCCGATCTTTGATCT		
12378	IS	[GA]		GCCCCCTGAGCTGGGGGC	ctg13980	1
12379	I		S	GCACGGCAGAGGCTAATGGGTGAGATGTGA		
12379	P	A	S	CGCGCCGAGGTCCCTGGAAGTTGTACCY		
12379	P	G	S	ATGACGTGGCAGACCCCCTGGAAGTTGTACCY		
12379	T	A	S	GCTAGGTACAACTTCCAGGGACACATCTCACCCATTAGCCTCTGCCGTGCGG		
12379	T	G	S	GCTAGGTACAACTTCCAGGGGCACATCTCACCCATTAGCCTCTGCCGTGCGG		

FIGURE 129B

				TTTCCTCTCAAGTGAAGGACCAGAGAGAAATGAGCAGAGGGCTAGGTACAACTTCCAGGG[AG]CACATCTCACCCATTAGCCTCTGCCGTGCGGGAAAGCAGCCC			
12379	IS	[AG]		CACTCTTGCTTCTGTCTT	ctg13980	1	
12381	I		S	CTGGATGGCTGTGAGAGCCGCTCACT			
12381	P	C	S	ATGACGTGGCAGACGCCTCTGTGGACACCY			
12381	P	T	S	CGCGCCGAGGACCTCTGTGGACACCY			
12381	T	C	S	GGCAGGTGTCCACAGAGGCGTGAGCGGCTCTCACAGCCATCCAGCC			
12381	T	T	S	GGCAGGTGTCCACAGAGGTGTGAGCGGCTCTCACAGCCATCCAGCC			
				AGCCCCATCCTGTCACACTGTCCTGTTCTCAGCTGAGATTCAGGCAGGTGTCCACAGAGG[CT]GTGAGCGGCTCTCACAGCCATCCAGCCCCGGCGCAAGCACT			
12381	IS	[CT]		CACAGGGGTGCCGGGCCTT	ctg13516	6	
12389	I		S	CCCAGTCTCCAAACAGATCCCAACACTACGTTTGTTTTTCTATATT			
12389	P	G	S	ATGACGTGGCAGACCCTGATTGTCACACCTGY			
12389	P	T	S	CGCGCCGAGGACTGATTGTCACACCTGY			
12389	T	G	S	CTTCCAGGTGTGACAATCAGGATATAGAAAAACAAACGTAGTGTTGGGATCTGTTTGGAGACTGGGAT			
12389	T	T	S	CTTCCAGGTGTGACAATCAGTATATAGAAAAACAAACGTAGTGTTGGGATCTGTTTGGAGACTGGGAT			
				TGGTCTCATGGCAGTAAGCCTCATGTATACTAAGGAGAGTCTTCCAGGTGTGACAATCAG[GT]ATATAGAAAAACAAACGTAGTGTTGGGATCTGTTTGGAGACTG			
12389	IS	[GT]		GGATGGGAACAAGTTCA	ctg16537	20	DJ971N18.2
12392	I		A	GGGTCCATCCTGACTCATCCTGACCTGTCTA			
12392	P	C	A	ATGACGTGGCAGACCTCCTTTCAGTCCGGGY			
12392	P	T	A	CGCGCCGAGGTTCCTTTCAGTCCGGGY			
12392	T	C	A	AGGTCCCGGACTGAAAGGAGAGACAGGTCAGGATGAGTCAGGATGGACCCCA			
12392	T	T	A	AGGTCCCGGACTGAAAGGAAAGACAGGTCAGGATGAGTCAGGATGGACCCCA			
				TGTGGGAGGGGTAAGAGATCTTAGCTGGTGGGGTCCATCCTGACTCATCCTGACCTGTCT[CT]TCCTTTCAGTCCGGGACCTTTGCAATGGCGTGGACCATGGCT			
12392	IS	[CT]		GTGAGTTCCAGTGTGTGA	ctg15665	20	
12399	I		A	AGAACTAAGAGAAATTGAGCTTGTATTAAACAACGTAGGAACCT			
12399	P	A	A	CGCGCCGAGGATCCTTTCTATGAACACCAACY			
12399	P	G	A	ATGACGTGGCAGACGTCCTTTCTATGAACACCAAY			
12399	T	A	A	TGATGTTGGTGTTCATAGAAAGGATGGTTCCTACGTTGTTTAATACAAGCTCAATTTCTCTTAGTTCTTC			
12399	T	G	A	TGATGTTGGTGTTCATAGAAAGGACGGTTCCTACGTTGTTTAATACAAGCTCAATTTCTCTTAGTTCTTC			
				ATCATGTCTTCAACAGAAGAACTAAGAGAAATTGAGCTTGTATTAAACAACGTAGGAACC[AG]TCCTTTCTATGAACACCAACATCACCCTTCGTTTATGCCTAAGGA			
12399	IS	[AG]		ACAGTCAGAAACCAG	ctg15907	6	
12401	I		S	CTCTGCAGCAGATGTAATTCTGTATCCAGACATGGCAAAA			
12401	P	A	S	CGCGCCGAGGTGCCATCCTCCTTGTTY			
12401	P	G	S	ATGACGTGGCAGACCGCCATCCTCCTTGTY			
12401	T	A	S	CAGAAACAAGGAGGATGGCATTTGCCATGTCTGGATACAGAATTACATCTGCTGCAGAGAG			
12401	T	G	S	CAGAAACAAGGAGGATGGCGTTTGCCATGTCTGGATACAGAATTACATCTGCTGCAGAGAG			
				GTCATGGGGCTCCTCAGCACGCTGTACACTCCTCTGGTCCTCAGAAACAAGGAGGATGGC[AG]TTTGCCATGTCTGGATACAGAATTACATCTGCTGCAGAGAGT			
12401	IS	[AG]		TTGAGGAGGTGTCCATGG	ctg15907	6	
12408	I		A	GCCTCCTGCTATGAATTTTTCAAAGCGTTTTTCAAATCCATTCTTT			
12408	P	A	A	CGCGCCGAGGACCCCTGATCAGCATCY			
12408	P	G	A	ATGACGTGGCAGACGCCCCTGATCAGCAY			
12408	T	A	A	TGGAGATGCTGATCAGGGGTAAGAATGGATTTGAAAAACGCTTTGAAAAATTCATAGCAGGAGGCAA			
12408	T	G	A	TGGAGATGCTGATCAGGGGCAAGAATGGATTTGAAAAACGCTTTGAAAAATTCATAGCAGGAGGCAA			
				GACTCTTTCTCCTTTGCCTCCTGCTATGAATTTTTCAAAGCGTTTTTCAAATCCATTCTT[AG]CCCCTGATCAGCATCTCCATTAGCCAGATAGAAAGTCAAAGAGGT			
12408	IS	[AG]		TTTAAGCTGAGAGAT	MULTIPLE	22	
12412	I		S	CGACCCCCCCTTCTCACCAGTTCCTTTTGA			
12412	P	A	S	CGCGCCGAGGTGCTCCCAGAACGCY			
12412	P	G	S	ATGACGTGGCAGACCGCTCCCAGAACGCY			
12412	T	A	S	TGCTGCGTTCTGGGAGCACAAAGGAACTGGTGAGAAGGGGGGGTCGGT			
12412	T	G	S	TGCTGCGTTCTGGGAGCGCAAAAGGAACTGGTGAGAAGGGGGGGTCGGT			
				GATTTAAAGAAATACTCGGCGATTCCAATGTAGAGCATGGAGTTGCTGCGTTCTGGGAGC[AG]CAAAAGGAACTGGTGAGAAGGGGGGGTCGGTGAGGTTTTCCA			
12412	IS	[AG]		GTGGGTAGAATACACCCT	ctg22fin4	22	
12415	I		S	CCCTCTTCAGGAGAAGGATCATATGTCTTTGCCCCC			
12415	P	A	S	CGCGCCGAGGTAGGAGTAGGTTTGAGGCY			
12415	P	C	S	ATGACGTGGCAGACGAGGAGTAGGTTTGAGGCY			
12415	T	A	S	CCTAGCCTCAAACCTACTCCTAGGGGCAAAGACATATGATCCTTCTCCTGAAGAGGGCA			
12415	T	C	S	CCTAGCCTCAAACCTACTCCTGGGGCAAAGACATATGATCCTTCTCCTGAAGAGGGCA			
				TTTAGTTCCAATAAATGCAGACTGCTCTACTTGCTGCCTCCTAGCCTCAAACCTACTCCT[AC]GGGGCAAAGACATATGATCCTTCTCCTGAAGAGGGCAGACATAT			
12415	IS	[AC]		GTTGTACAATACAATC	ctg22fin4	22	
12416	I		A	TGGCACACATGTAGGCACCCCTGCTT			
12416	P	G	A	ATGACGTGGCAGACGGACTTTACCTGTTTCCGY			
12416	P	C	A	CGCGCCGAGGCGACTTTACCTGTTTCCGY			
12416	T	G	A	CTTACGGAAACAGGTAAAGTCCAGCAGGGGTGCCTACATGTGTGCCAGA			
12416	T	C	A	CTTACGGAAACAGGTAAAGTCGAGCAGGGGTGCCTACATGTGTGCCAGA			
				TTTAGCTTGGTGAAGTGAAGTGGGAAACTGGGGTCTGGCACACATGTAGGCACCCCTGCT[GC]GACTTTACCTGTTTCCGTAAGTCCTGAGCCGACCGATGCAGA			
12416	IS	[GC]		GGGGGGTGGTGATGGGTG	ctg15907	6	
12421	I		S	TCTTCTGCACCCCCCTCAGACTCCATCTTA			
12421	P	A	S	CGCGCCGAGGTACATGAGTCTCATCTTTCTTCY			
12421	P	G	S	ATGACGTGGCAGACCACATGAGTCTCATCTTTCTTY			
12421	T	A	S	CCATGAAGAAAGATGAGACTCATGTAAAGATGGAGTCTGAGGGGGGTGCAGAAGACT			
12421	T	G	S	CCATGAAGAAAGATGAGACTCATGTGAAGATGGAGTCTGAGGGGGGTGCAGAAGACT			
				AAATGCTAAGTCAGAAGAGGAGCAGAGCAGTAGCTCCATGAAGAAAGATGAGACTCATGT[AG]AAGATGGAGTCTGAGGGGGGTGCAGAAGACTCTGCTGAGGA			
12421	IS	[AG]		GGGGGACCCACTGGATGAT	ctg13980	1	
12422	I		S	CTCCAGCTGGTCGTCCCCCTGATCTTCATTAC			
12422	P	A	S	CGCGCCGAGGTCATCATCATCCAGTGGGY			
12422	P	T	S	ATGACGTGGCAGACACATCATCATCCAGTGGGY			
12422	T	A	S	GGGACCCACTGGATGATGATGATAATGAAGATCAGGGGGACGACCAGCTGGAGTT			
12422	T	T	S	GGGACCCACTGGATGATGATGTTAATGAAGATCAGGGGGACGACCAGCTGGAGTT			
				TGGAGTCTGAGGGGGGTGCAGAAGACTCTGCTGAGGAGGGGGACCCACTGGATGATGATG[AT]TAATGAAGATCAGGGGGACGACCAGCTGGAGTTGATCAAG			
12422	IS	[AT]		GATGATGAAAAAGAGGCTGA	MULTIPLE	MULTIPLE	HNRPC
12433	I		S	TCTCCACCACTCACATAAATGAATACTCCAACCAATCTCTCCT			
12433	P	G	S	ATGACGTGGCAGACCTTCTCCAGTGTGTGATACY			
12433	P	T	S	CGCGCCGAGGATTCTCCAGTGTGTGATACTY			
12433	T	G	S	GAAAAGTATCACACACTGGAGAAGGGAGAGATTGGTTGGAGTATTCATTTATGTGAGTGGTGGAGAGG			
12433	T	T	S	GAAAAGTATCACACACTGGAGAATGGAGAGATTGGTTGGAGTATTCATTTATGTGAGTGGTGGAGAGG			
				TAATAGATGCTTTCTAAATACTAGATTCCTCTTCTATGAAAAGTATCACACACTGGAGAA[GT]GGAGAGATTGGTTGGAGTATTCATTTATGTGAGTGGTGGAGAGG			
12433	IS	[GT]		GGAGTATATGACATAA	ctg13446	1	
12436	I		S	CTGTTCCTCACTTTCTGAACCTTTACCTGCCTGACTTTACA			
12436	P	A	S	CGCGCCGAGGTCCATACCACTCCAACTCY			
12436	P	G	S	ATGACGTGGCAGACCCCATACCACTCCAACTY			
12436	T	A	S	AAGTGAGTTGGAGTGGTATGGAGTAAAGTCAGGCAGGTAAAGGTTCAGAAAGTGAGGAACAGCG			
12436	T	G	S	AAGTGAGTTGGAGTGGTATGGGGTAAAGTCAGGCAGGTAAAGGTTCAGAAAGTGAGGAACAGCG			
				AGATGGTGAGTTTATTTTTTTCTGCATGGGAAGTGGTTGAAGTGAGTTGGAGTGGTATGG[AG]GTAAAGTCAGGCAGGTAAAGGTTCAGAAAGTGAGGAACAGCG			
12436	IS	[AG]		ATAGCCATGGAGTTTTAT			
12437	I		S	ACATGTGCCTAAGACTGGCTTCACGCACCT			
12437	P	C	S	ATGACGTGGCAGACGTTTCATCTCATCCCTGGY			
12437	P	T	S	CGCGCCGAGGATTTCATCTCATCCCTGGTY			
12437	T	C	S	TGGGACCAGGGATGAGATGAAACGGTGCGTGAAGCCAGTCTTAGGCACATGTCC			
12437	T	T	S	TGGGACCAGGGATGAGATGAAATGGTGCGTGAAGCCAGTCTTAGGCACATGTCC			

FIGURE 129B

				TTCACTGAGAACCTACTATGGGCCATGTCCTTTGTGCTTGGGACCAGGGATGAGATGAAA[CT]GGTGCGTGAAGCCAGTCTTAGGCACATGTCCACTATAGTATAG		
12437	IS	[CT]		TCAAGGTGAGGTTTGCA	ctg13446	1
12438	I		S	GTCTACCCAAGGACACTAGATAGGTTGAGTTCCCTGTGTATAA		
12438	P	A	S	CGCGCCGAGGTGAATGGGTTATCACACATCY		
12438	P	G	S	ATGACGTGGCAGACCGAATGGGTTATCACACATY		
12438	T	A	S	AAGTGATGTGTGATAACCCATTCATATACACAGGGAACTCAACCTATCTAGTGTCCTTGGGTAGACTT		
12438	T	G	S	AAGTGATGTGTGATAACCCATTCGTATACACAGGGAACTCAACCTATCTAGTGTCCTTGGGTAGACTT		
				ATAAACAGTATCATCCAAACATGTTTACCTTTTCTCTAAGTGATGTGTGATAACCCATTC[AG]TATACACAGGGAACTCAACCTATCTAGTGTCCTTGGGTAGACTTT		
12438	IS	[AG]		TTCTTCCTAAGACGC	ctg14250	1
12439	I		A	GCATTTTCAGGGCAATTAATTCTATAAACTTTCCCTTAGTTAGATATGTTTAAATAAATTT		
12439	P	G	A	ATGACGTGGCAGACGTTCTATGGGTGCTTAATTTTAGY		
12439	P	C	A	CGCGCCGAGGCTTCTATGGGTGCTTAATTTTAGY		
12439	T	G	A	TTCACTAAAATTAAGCACCCATAGAACAATTTATTTAAACATATCTAACTAAGGGAAAGTTTATAGAATTAATTGCCCTGAAAATGC		
12439	T	C	A	TTCACTAAAATTAAGCACCCATAGAAGAATTTATTTAAACATATCTAACTAAGGGAAAGTTTATAGAATTAATTGCCCTGAAAATGC		
				GCATTTTCAGGGCAATTAATTCTATAAACTTTCCCTTAGTTAGATATGTTTAAATAAATT[GC]TTCTATGGGTGCTTAATTTTAGTGAAGAGTTAAGTAATTCAAATTT		
12439	IS	[GC]		TAGTACATAATTTT	ctg14250	1
12443	I		S	AGAAGGCCCAGGCCTGGCAAACAGTAT		
12443	P	C	S	ATGACGTGGCAGACGTGAAAGTTCGTCTGGGY		
12443	P	G	S	CGCGCCGAGGCTGAAAGTTCGTCTGGGY		
12443	T	C	S	GTTTCCCAGACGAACTTTCACTACTGTTTGCCAGGCCTGGGCCTTCTCT		
12443	T	G	S	GTTTCCCAGACGAACTTTCAGTACTGTTTGCCAGGCCTGGGCCTTCTCT		
				AGACTGATATTCGTAAAGTGAGCATCATGTGGGTATTGCAGTTTCCCAGACGAACTTTCA[CG]TACTGTTTGCCAGGCCTGGGCCTTCTCTTCCACATAAGAACAA		
12443	IS	[CG]		TCTGACTCCCTGGGTTT	ctg15665	20
12450	I		A	GGATGTCTGCCCTCATAACGCCCAGCTT		
12450	P	G	A	ATGACGTGGCAGACGTCTGGGGTCGAGCY		
12450	P	A	A	CGCGCCGAGGATCTGGGGTCGAGCY		
12450	T	G	A	CTAAGCTCGACCCCAGACAGCTGGGCGTTATGAGGGCAGACATCCTA		
12450	T	A	A	CTAAGCTCGACCCCAGATAGCTGGGCGTTATGAGGGCAGACATCCTA		
				ACAAATGCATCCGATAAATAAACAAAAGCATTAGGATGTCTGCCCTCATAACGCCCAGCT[GA]TCTGGGGTCGAGCTTAGGAAGAACCCGACGCTTCAGTTCTCCC		
12450	IS	[GA]		GCAGGGCATGAGCTCCC	ctg22fin6	22
12455	I		A	TCAAGTCCCAGGATGCCTGATCTGTGAGCTCT		
12455	P	G	A	ATGACGTGGCAGACGGACACTTAACCAGTGCY		
12455	P	A	A	CGCGCCGAGGAGACACTTAACCAGTGCTY		
12455	T	G	A	TCAGAGCACTGGTTAAGTGTCCGAGCTCACAGATCAGGCATCCTGGGACTTGAAT		
12455	T	A	A	TCAGAGCACTGGTTAAGTGTCTGAGCTCACAGATCAGGCATCCTGGGACTTGAAT		
				ACACAGCCAGGAAGTGGCAGGGCCGGGATTCAAGTCCCAGGATGCCTGATCTGTGAGCTC[GA]GACACTTAACCAGTGCTCTGAGATGGCTCAGGCAAGTCTGG		
12455	IS	[GA]		AGCCCCCCTCATCTGACAG	ctg22fin6	22
12456	I		S	GACGCCCTGCCCTTTGCTTGTGTCTA		
12456	P	G	S	ATGACGTGGCAGACCTGGGTTTGATAACAGCCY		
12456	P	A	S	CGCGCCGAGGTTGGGTTTGATAACAGCCY		
12456	T	G	S	TCAGGGCTGTTATCAAACCCAGAGACACAAGCAAAGGGCAGGGCGTCAC		
12456	T	A	S	TCAGGGCTGTTATCAAACCCAAAGACACAAGCAAAGGGCAGGGCGTCAC		
				GACTGCACAATTTTTATCACTTACTTCCAATGAGTGGAGTCAGGGCTGTTATCAAACCCA[GA]AGACACAAGCAAAGGGCAGGGCGTCACGTGGGGGTGGTGAAG		
12456	IS	[GA]		GCTTCTCTGGGGACCCTT	ctg22fin4	22
12459	I		S	CCAATGCAGAGACCCCCCTGGATTCCTA		
12459	P	A	S	CGCGCCGAGGTGGAGCTGATGCCCY		
12459	P	G	S	ATGACGTGGCAGACCGGAGCTGATGCCCY		
12459	T	A	S	CAGTGGGCATCAGCTCCAAGGAATCCAGGGGGGTCTCTGCATTGGGG		
12459	T	G	S	CAGTGGGCATCAGCTCCGAGGAATCCAGGGGGGTCTCTGCATTGGGG		
				GGAAAGCAGCAGACATTCCCAGGGCTGTCCAGTGAGTGGTGTTCAGTGGGCATCAGCTCC[AG]AGGAATCCAGGGGGGTCTCTGCATTGGGGTTTCTCTATTGT		
12459	IS	[AG]		GCCTTCAGAAACCCGATGG	ctg22fin4	22
12460	I		S	TCGGAAGACGCCCCTCTTCCAGGAGAA		
12460	P	A	S	CGCGCCGAGGTAGGTGAGTGGTGCTTTY		
12460	P	G	S	ATGACGTGGCAGACCAGGTGAGTGGTGCTY		
12460	T	A	S	TTGTAAAGCACCACTCACCTATCTCCTGGAAGAGGGGCGTCTTCCGAAA		
12460	T	G	S	TTGTAAAGCACCACTCACCTGTCTCCTGGAAGAGGGGCGTCTTCCGAAA		
				TATGGTCGGAACGAAAGCTGGCTGTGCTTCACCATGGAAGTTGTAAAGCACCACTCACCT[AG]TCTCCTGGAAGAGGGGCGTCTTCCGAAACCAGGTAGCACCAA		
12460	IS	[AG]		AGTCCTATTTACACCCCA	ctg22fin4	22
12464	I		A	CCCCCTGCTCCTCTCCCAGGTGTATTTCT		
12464	P	G	A	ATGACGTGGCAGACGAGCCTCAGTACCACGY		
12464	P	A	A	CGCGCCGAGGAAGCCTCAGTACCACGY		
12464	T	G	A	TCTGCGTGGTACTGAGGCTCGAAATACACCTGGGAGAGGAGCAGGGGGCA		
12464	T	A	A	TCTGCGTGGTACTGAGGCTTGAAATACACCTGGGAGAGGAGCAGGGGGCA		
				TCCTCCTGCTCCCCCTCTCAGAGCATCCCCTGCCCCCTGCTCCTCTCCCAGGTGTATTTC[GA]AGCCTCAGTACCACGCAGAAATGTGCTTCCTCTCTTGGTTCTG		
12464	IS	[GA]		TGGCAACCAGCTGCCTG	ctg22fin4	22
12473	I		A	GTTTATTTGTTTGTTTGAAACAAAGAGTCTTGCTTAGTTGCCA		
12473	P	C	A	ATGACGTGGCAGACCAGGCTGGAGTGCAY		
12473	P	T	A	CGCGCCGAGGTAGGCTGGAGTGCAGY		
12473	T	C	A	GCCACTGCACTCCAGCCTGGGCAACTAAGCAAGACTCTTTGTTTCAAACAAACAAATAAACAA		
12473	T	T	A	GCCACTGCACTCCAGCCTAGGCAACTAAGCAAGACTCTTTGTTTCAAACAAACAAATAAACAA		
				CCACCTGGTTCTTTGTTTGTTTATTTGTTTGTTTGAAACAAAGAGTCTTGCTTAGTTGCC[CT]AGGCTGGAGTGCAGTGGCATGATCATGGCTCACTGCAGCCATAA		
12473	IS	[CT]		TCTCCTGGGCTCAAGC	ctg22fin4	22
12476	I		S	GGAGGTGGAGGCTGGCCCGCA		
12476	P	A	S	CGCGCCGAGGTCAGCAGGGACTGTTCY		
12476	P	G	S	ATGACGTGGCAGACCCAGCAGGGACTGTTY		
12476	T	A	S	CTGAGAACAGTCCCTGCTGAGCGGGCCAGCCTCCACCTCCCA		
12476	T	G	S	CTGAGAACAGTCCCTGCTGGGCGGGCCAGCCTCCACCTCCCA		
				GCTTCCAGTGTCTACACCACCTTGTTCAGGTCTGCCTGTCCCTGAGAACAGTCCCTGCTG[AG]GCGGGCCAGCCTCCACCTCCCACAACCCCACCTTCCTCATTG		
12476	IS	[AG]		TGCAGGCCCTGCAGCCCA	ctg22fin10	22
12487	I		S	CGTGGGGTAGTGTTTACCTCCCTATACCTGAGGTTTACC		
12487	P	A	S	CGCGCCGAGGTCATTCTGGCCCAGAAY		
12487	P	C	S	ATGACGTGGCAGACGCATTCTGGCCCAGAY		
12487	T	A	S	TCCCTTCTGGGCCAGAATGAGTAAACCTCAGGTATAGGGAGGTAAACACTACCCCACGCC		
12487	T	C	S	TCCCTTCTGGGCCAGAATGCGTAAACCTCAGGTATAGGGAGGTAAACACTACCCCACGCC		
				TGGTGTTCCCCAAATTGTTCAAGCTGGTATCAATTATCAGTTCCCTTCTGGGCCAGAATG[AC]GTAAACCTCAGGTATAGGGAGGTAAACACTACCCCACGCCTGG		
12487	IS	[AC]		GACCCATGGTAGATGCT	ctg15907	6
12489	I		S	ACGGACCGCCCGGGTCCCA		
12489	P	A	S	CGCGCCGAGGTCAGAGTCTCCGGATCY		
12489	P	G	S	ATGACGTGGCAGACCCAGAGTCTCCGGATCY		
12489	T	A	S	TTCGGATCCGGAGACTCTGAGGGACCCGGGCGGTCCGTGG		
12489	T	G	S	TTCGGATCCGGAGACTCTGGGGGACCCGGGCGGTCCGTGG		
				GGGTGGAGGGTCTGGGCGGGTCCCGCTGCCTCGGGGTAGATTTCGGATCCGGAGACTCTG[AG]GGGACCCGGGCGGTCCGTGGCGGATGGGGGGTGGTCGT		
12489	IS	[AG]		GACCTGCGCCCCCGGCCGGGTT	ctg15907	6
12491	I		A	CAGCTGTTGACAAACGTCCCTGATGGGTTCTA		
12491	P	T	A	CGCGCCGAGGTTTCCCCTGCCTGGY		
12491	P	C	A	ATGACGTGGCAGACCTTCCCCTGCCTGGY		
12491	T	T	A	GTACCCAGGCAGGGGAAAAGAACCCATCAGGGACGTTTGTCAACAGCTGTA		
12491	T	C	A	GTACCCAGGCAGGGGAAGAGAACCCATCAGGGACGTTTGTCAACAGCTGTA		

FIGURE 129B

				CTCACTTCTTTAGGTTTGTGGGAATACTACAGCTGTTGACAAACGTCCCTGATGGGTTCT[TC]TTCCCCTGCCTGGGTACCAGTACCTCATTAATCCTGATGAGAAA			
12491	IS	[TC]		ATGGCTTGTTTTTCTC	ctg15907	6	
12495	I		S	TGCACAGTCTCCTCTCCAGATTCCTGTGAGCA			
12495	P	A	S	CGCGCCGAGGTCCTCCTCCTCCTCCY			
12495	P	G	S	ATGACGTGGCAGACCCCTCCTCCTCCTCCY			
12495	T	A	S	AAGTGGAGGAGGAGGAGGAGCTCACAGGAATCTGGAGAGGAGACTGTGCAAA			
12495	T	G	S	AAGTGGAGGAGGAGGAGGGGCTCACAGGAATCTGGAGAGGAGACTGTGCAAA			
				TACTCTGAGTTCTCTCAGGGGAACTCTGGAAAAGACTCAGTAAAGTGGAGGAGGAGGAGG[AG]GCTCACAGGAATCTGGAGAGGAGACTGTGCAAAACCCTCAAA			
12495	IS	[AG]		AGTTCTCTGAGTTCTCTC	ctg17573	X	MAGEC1
12500	I		A	GCTGCCTCAGCTTCCATGAATAAAACATGAGATT			
12500	P	A	A	CGCGCCGAGGATGCATCTTCAGAGCTACAY			
12500	P	G	A	ATGACGTGGCAGACGTGCATCTTCAGAGCTACY			
12500	T	A	A	CACTTGTAGCTCTGAAGATGCATATCTCATGTTTTATTCATGGAAGCTGAGGCAGCTT			
12500	T	G	A	CACTTGTAGCTCTGAAGATGCACATCTCATGTTTTATTCATGGAAGCTGAGGCAGCTT			
				GAAGACGTTTTTACTCTTATAATTTAAGCTGCCTCAGCTTCCATGAATAAAACATGAGAT[AG]TGCATCTTCAGAGCTACAAGTGCTACTAAGATGTTCTTTTTCCCC			
12500	IS	[AG]		TAGGCCTTATATCAA	ctg16537	20	
12501	I		S	CCTATGAGGAGATATGAGGACATGAGGATTTCTGCACATTCAT			
12501	P	C	S	ATGACGTGGCAGACGGTCAAATCCTTCTTCCTTTY			
12501	P	T	S	CGCGCCGAGGAGTCAAATCCTTCTTCCTTTGY			
12501	T	C	S	TTTTCAAAGGAAGAAGGATTTGACCTGAATGTGCAGAAATCCTCATGTCCTCATATCTCCTCATAGGCA			
12501	T	T	S	TTTTCAAAGGAAGAAGGATTTGACTTGAATGTGCAGAAATCCTCATGTCCTCATATCTCCTCATAGGCA			
				ATTAAAGAGGACACCACAACCTTTAGCCTAAACCTTTTTTCAAAGGAAGAAGGATTTGAC[CT]TGAATGTGCAGAAATCCTCATGTCCTCATATCTCCTCATAGGCAT			
12501	IS	[CT]		TTTAAATCTCCAGCT	ctg15907	6	
12513	I		A	GTGGCTCTACTGTGGGCAGTGACTGCTT			
12513	P	G	A	ATGACGTGGCAGACGTAGTGCCTGTCATTTCTGY			
12513	P	C	A	CGCGCCGAGGCTAGTGCCTGTCATTTCTGY			
12513	T	G	A	CCCTCAGAAATGACAGGCACTACAGCAGTCACTGCCCACAGTAGAGCCACTT			
12513	T	C	A	CCCTCAGAAATGACAGGCACTAGAGCAGTCACTGCCCACAGTAGAGCCACTT			
				ATGCAAAGTATCTACTTAGCATCCAGGTACCAAGTGGCTCTACTGTGGGCAGTGACTGCT[GC]TAGTGCCTGTCATTTCTGAGGGGAAAAGAAAGGTTGCTGCTG			
12513	IS	[GC]		CTTATAAAATAGCCTCTT	ctg12559	6	
12534	I		S	GATGTTTTCATTTTGAGTCTATAAATCTAATTTTGTGGTGGTTTTGTGTATC			
12534	P	A	S	CGCGCCGAGGTGCTCAAGGCTCAAATTGY			
12534	P	C	S	ATGACGTGGCAGACGGCTCAAGGCTCAAATTY			
12534	T	A	S	TTTACAATTTGAGCCTTGAGCAATACACAAAACCACCACAAAATTAGATTTATAGACTCAAAATGAAAACATCAG			
12534	T	C	S	TTTACAATTTGAGCCTTGAGCCATACACAAAACCACCACAAAATTAGATTTATAGACTCAAAATGAAAACATCAG			
				GTTCTGGGTATAACTTTCTTTGGTCACATAATATTAAATTTTACAATTTGAGCCTTGAGC[AC]ATACACAAAACCACCACAAAATTAGATTTATAGACTCAAAATGAAA			
12534	IS	[AC]		ACATCAGCTTACTG	ctg16045	6	
12539	I		A	GCCCACGCCGTGCACCCCA			
12539	P	C	A	ATGACGTGGCAGACCGCACCACCCAGCY			
12539	P	T	A	CGCGCCGAGGTGCACCACCCAGCY			
12539	T	C	A	GAAAGCTGGGTGGTGCGGGGGTGCACGGCGTGGGCAC			
12539	T	T	A	GAAAGCTGGGTGGTGCAGGGGTGCACGGCGTGGGCAC			
				GGAGGGACGCTGCCCTGTGAGCCGACGGAGAGGTCACTCAGTGCCCACGCCGTGCACCCC[CT]GCACCACCCAGCTTTCCAGCAGCACCTCAGGAGGGACCCA			
12539	IS	[CT]		GCTCTGTGGGGACAGCACCC	ctg16829	1	
12547	I		S	TGTCCCTTGAGGAGTTTGCAACATAGAGGGGAAAGATATAAAAAAA			
12547	P	A	S	CGCGCCGAGGTTAACTTTAACTTAAGGCAGAATTAAY			
12547	P	G	S	ATGACGTGGCAGACCTAACTTTAACTTAAGGCAGAATTAAY			
12547	T	A	S	TTATTTAATTCTGCCTTAAGTTAAAGTTAATTTTTTATATCTTTCCCCTCTATGTTGCAAACTCCTCAAGGGACAGG			
12547	T	G	S	TTATTTAATTCTGCCTTAAGTTAAAGTTAGTTTTTTATATCTTTCCCCTCTATGTTGCAAACTCCTCAAGGGACAGG			
				TTTTTTTCATTTTTTGCTTTTCTATCTACATTTATTTAATTCTGCCTTAAGTTAAAGTTA[AG]TTTTTTATATCTTTCCCCTCTATGTTGCAAACTCCTCAAGGGACAGG			
12547	IS	[AG]		ACCGTATTATCTT			
12732	I		S	CCCAGGAGGACCCCCAGGGCT			
12732	P	C	S	ATGACGTGGCAGACGCTCATGGCTATGATGGY			
12732	P	T	S	CGCGCCGAGGACTCATGGCTATGATGGTY			
12732	T	C	S	CATCACCATCATAGCCATGAGCGCCCTGGGGGTCCTCCTGGGGG			
12732	T	T	S	CATCACCATCATAGCCATGAGTGCCCTGGGGGTCCTCCTGGGGG			
				GAAGCCAGGCAATGTGTTGAAGACCTTAGACCCCATCCTCATCACCATCATAGCCATGAG[CT]GCCCTGGGGGTCCTCCTGGGGGCTGTCTGTGGGGTCGTGCT			
12732	IS	[CT]		GTACTGTGCCTGTTGGCAT	ctg13655	10	NRP1
12733	I		A	AGGTGGTAGCAGCAGGAGGTTGGTTTAT			
12733	P	A	A	CGCGCCGAGGAAGTAGCTTAATTGTATTGTCTGY			
12733	P	G	A	ATGACGTGGCAGACGAGTAGCTTAATTGTATTGTCTGY			
12733	T	A	A	AGGGCAGACAATACAATTAAGCTACTTTAAACCAACCTCCTGCTGCTACCACCTAA			
12733	T	G	A	AGGGCAGACAATACAATTAAGCTACTCTAAACCAACCTCCTGCTGCTACCACCTAA			
				CAGTGGGGACTGTTTCACTCATGAAGTTATTTAGGTGGTAGCAGCAGGAGGTTGGTTTA[AG]AGTAGCTTAATTGTATTGTCTGCCCTGAGAAAAATTCAAAAGCT			
12733	IS	[AG]		GGAGAATATAAAAGAA	ctg13655	10	
12736	I		S	ACATTATCGTTTTTAGTATTAAGTCTTCAGAACCAGTTTGAGTTTTCCT			
12736	P	T	S	CGCGCCGAGGACATCTCAATTATAACACTAAATTTTTATTAY			
12736	P	G	S	ATGACGTGGCAGACCCATCTCAATTATAACACTAAATTTTTATY			
12736	T	T	S	TATCTAATAAAAATTTAGTGTTATAATTGAGATGTGGAAAACTCAAACTGGTTCTGAAGACTTAATACTAAAAACGATAATGTAA			
12736	T	G	S	TATCTAATAAAAATTTAGTGTTATAATTGAGATGGGGAAAACTCAAACTGGTTCTGAAGACTTAATACTAAAAACGATAATGTAA			
				TATGAAATATAAATACAGATCAAATATATCTAATAAAAATTTAGTGTTATAATTGAGATG[TG]GGAAAACTCAAACTGGTTCTGAAGACTTAATACTAAAAACGATAAT			
12736	IS	[TG]		GTAAAATAGCTCAT	ctg16537	20	
12738	I		A	CTCCTTGGCTTTGGATTCAGAATGATAACCTGCACCTAC			
12738	P	A	A	CGCGCCGAGGAAGTAGAAAATAAAATCCAGTTAATTATTAAAY			
12738	P	T	A	ATGACGTGGCAGACTAGTAGAAAATAAAATCCAGTTAATTATTAAAY			
12738	T	A	A	GATATTTTAATAATTAACTGGATTTTATTTTCTACTTTAGGTGCAGGTTATCATTCTGAATCCAAAGCCAAGGAGTA			
12738	T	T	A	GATATTTTAATAATTAACTGGATTTTATTTTCTACTATAGGTGCAGGTTATCATTCTGAATCCAAAGCCAAGGAGTA			
				CTCGTTTGCATACATGTTTATACTCCTTGGCTTTGGATTCAGAATGATAACCTGCACCTA[AT]AGTAGAAAATAAAATCCAGTTAATTATTAAAATATCAAGAGACCTT			
12738	IS	[AT]		GCTTATGTTATATA	ctg16537	20	
12746	I		S	GGCTGGAGAAGGTGTACTGGACACTTCCCAT			
12746	P	T	S	CGCGCCGAGGATATCCCCAGAGGAATCAGY			
12746	P	C	S	ATGACGTGGCAGACGTATCCCCAGAGGAATCAY			
12746	T	T	S	AGCTCTGATTCCTCTGGGGATATTGGGAAGTGTCCAGTACACCTTCTCCAGCCTC			
12746	T	C	S	AGCTCTGATTCCTCTGGGGATACTGGGAAGTGTCCAGTACACCTTCTCCAGCCTC			
				GGTGAGGGGACCTCCCTGTGACCCTCTCCTTTGCCTGCAGCTCTGATTCCTCTGGGGATA[TC]TGGGAAGTGTCCAGTACACCTTCTCCAGCCTCCCGCTTGTGA			
12746	IS	[TC]		CCGGGGAATTCCTGGAGC	ctg16586	20	
13165	I		A	CCCTGTCCTCGGCCACCCAGCT			
13165	P	A	A	CGCGCCGAGGACAGGCTTGTCACCTY			
13165	P	G	A	ATGACGTGGCAGACGCAGGCTTGTCACCY			
13165	T	A	A	CTGGAGGTGACAAGCCTGTGCTGGGTGGCCGAGGACAGGGAG			
13165	T	G	A	CTGGAGGTGACAAGCCTGCGCTGGGTGGCCGAGGACAGGGAG			
				GGAGCACAGGAGGTCAGGCAGAGCCAGACTGGCCTGCCTCCCTGTCCTCGGCCACCCAGC[AG]CAGGCTTGTCACCTCCAGGTGCCTCCTGTTGTCACCAAGA			
13165	IS	[AG]		GCTTGGAGGCAAGGGCCTAG	ctg17450	X	
13169	I		A	CCCATGAGGGCTACCAGTAAGAACCAGAGAGAGA			
13169	P	C	A	ATGACGTGGCAGACCGACGGTTCCTGGCY			
13169	P	T	A	CGCGCCGAGGTGACGGTTCCTGGCY			
13169	T	C	A	TGAAGCCAGGAACCGTCGCTCTCTCTGGTTCTTACTGGTAGCCCTCATGGGGG			
13169	T	T	A	TGAAGCCAGGAACCGTCACTCTCTCTGGTTCTTACTGGTAGCCCTCATGGGGG			

FIGURE 129B

				GCCTTGGAGGCTCTGGCGTCAGGGACCCCCATGAGGGCTACCAGTAAGAACCAGAGAGAG[CT]GACGGTTCCTGGCTTCAGCCCCAAACCCTGGCTGTCAATAT				
13169	IS	[CT]		CAGCCTTGGTGGGAGCCCT	ctg17450	X		
13171	I		A	TGGGCCGAGGCCGAGACTGGAAA				
13171	P	T	A	CGCGCCGAGGTGTTGACCTGATTCCCAY				
13171	P	C	A	ATGACGTGGCAGACCGTTGACCTGATTCCCY				
13171	T	T	A	AATTTGGGAATCAGGTCAACATTCCAGTCTCGGCCTCGGCCCATC				
13171	T	C	A	AATTTGGGAATCAGGTCAACGTTCCAGTCTCGGCCTCGGCCCATC				
				TAAGCGTTTTCAGTTGCTGGAGGGGCCCCCTGAGTCGATGGGCCGAGGCCGAGACTGGAA[TC]GTTGACCTGATTCCCAAATTCCTCATGGCTAACGGTGAGGG				
13171	IS	[TC]		ACAGGAAGGAGGTATTGCA	ctg17450	X		
13173	I		S	GGTGCCTGCCCCTCACTGTGCAC				
13173	P	T	S	CGCGCCGAGGACTCTGGGAGCAGCY				
13173	P	A	S	ATGACGTGGCAGACTCTCTGGGAGCAGCY				
13173	T	T	S	CCGGGCTGCTCCCAGAGTTGCACAGTGAGGGGCAGGCACCCA				
13173	T	A	S	CCGGGCTGCTCCCAGAGATGCACAGTGAGGGGCAGGCACCCA				
				AGTGGCTCCAGAAGGGAGAGGTTCTGGAAGACGCCCCAACCTGCCGGGCTGCTCCCAGAG[TA]TGCACAGTGAGGGGCAGGCACCCAGGGCCGTTCCAGGACT				
13173	IS	[TA]		CAAGATGGGGATGGAGATGG	ctg17450	X	2.19	
13174	I		S	GTCCCAGGCAGCCCCTTCACTGCA				
13174	P	A	S	CGCGCCGAGGTCGGGTCACAGGTGY				
13174	P	G	S	ATGACGTGGCAGACCCGGGTCACAGGTGY				
13174	T	A	S	CACCCACCTGTGACCCGAGCAGTGAAGGGGCTGCCTGGGACGT				
13174	T	G	S	CACCCACCTGTGACCCGGGCAGTGAAGGGGCTGCCTGGGACGT				
				CCATGCCCACCCTGCCACCCGTTTCTGTCACTGCTCCCAGTGCCACCCACCTGTGACCCG[AG]GCAGTGAAGGGGCTGCCTGGGACGTGCTGTTCATTGTACTT				
13174	IS	[AG]		GACTAGAATGCTGTAGTCC	ctg17450	X		
13181	I		A	AGTGGAGATGAGCCCCCCAGCTCACA				
13181	P	T	A	CGCGCCGAGGTTCCTCCCTCCAGTTGY				
13181	P	C	A	ATGACGTGGCAGACCTCCTCCCTCCAGTTGY				
13181	T	T	A	CTCACAACTGGAGGGAGGAAGTGAGCTGGGGGGCTCATCTCCACTGG				
13181	T	C	A	CTCACAACTGGAGGGAGGAGGTGAGCTGGGGGGCTCATCTCCACTGG				
				CAGTCTGGAGGCCCTGGAGGCCTGTTCCTGCAGCCAGTGGAGATGAGCCCCCCAGCTCAC[TC]TCCTCCCTCCAGTTGTGAGATCACAGCAGGTTTGAGAAGTG				
13181	IS	[TC]		GAAATCCTGGTTTGGGAGA	MULTIPLE	16		
13182	I		A	CCAAGAAGAGTAACAAGCCAAATGAACAGACAAGTAAAAGACATGACAGA				
13182	P	C	A	ATGACGTGGCAGACCGATACTTTCCCAGAGCY				
13182	P	T	A	CGCGCCGAGGTGATACTTTCCCAGAGCTY				
13182	T	C	A	CTTCAGCTCTGGGAAAGTATCGCTGTCATGTCTTTTACTTGTCTGTTCATTTGGCTTGTTACTCTTCTTGGCT				
13182	T	T	A	CTTCAGCTCTGGGAAAGTATCACTGTCATGTCTTTTACTTGTCTGTTCATTTGGCTTGTTACTCTTCTTGGCT				
				TGCAACTGGAGCCAAGAAGAGTAACAAGCCAAATGAACAGACAAGTAAAAGACATGACAG[CT]GATACTTTCCCAGAGCTGAAGTTAACAAATGCACCTGGTTCTT				
13182	IS	[CT]		TTACTAAGTGTTCAAAT	ctg17129	17	BRCA1	
13186	I		S	ACTGAGGGAGAAGAGTCCACAGGCCCAA				
13186	P	G	S	ATGACGTGGCAGACCGCCAGCCCTCTCY				
13186	P	A	S	CGCGCCGAGGTGCCAGCCCTCTCY				
13186	T	G	S	GGAGGAGAGGGCTGGCGTGGGCCTGTGGACTCTTCTCCCTCAGTGG				
13186	T	A	S	GGAGGAGAGGGCTGGCATGGGCCTGTGGACTCTTCTCCCTCAGTGG				
				TAGGCTTGGTTTGAGAGCAGGATGGGGTGAGAGAGAAGCAGCGGGGAGGAGAGGGCTGGC[GA]TGGGCCTGTGGACTCTTCTCCCTCAGTGGCTATGAAGGGT				
13186	IS	[GA]		CTGCCAGCCTGGAAACTTCC	ctg17129	17		
13187	I		A	GGCTGTACGACCGTCTCCCGCCC				
13187	P	T	A	CGCGCCGAGGTCTGCCTGTCACTCCY				
13187	P	G	A	ATGACGTGGCAGACGCTGCCTGTCACTCCY				
13187	T	T	A	GCCCGGAGTGACAGGCAGAGGCGGGAGACGGTCGTACAGCCCC				
13187	T	G	A	GCCCGGAGTGACAGGCAGCGGCGGGAGACGGTCGTACAGCCCC				
				CTGCGGGCTCAACTTCGCAGACCTCATGGCTAGGCAGGGGCTGTACGACCGTCTCCCGCC[TG]CTGCCTGTCACTCCGGGCATGGAGGGCGCGGGTGTTGTGA				
13187	IS	[TG]		TCGCAGTGGGCGAGGGAGTC	ctg17129	17		
13213	I		S	TGAGCAGCGAAGGGGCTGTGGCT				
13213	P	T	S	CGCGCCGAGGATTCCTCGCTTGCTTCY				
13213	P	C	S	ATGACGTGGCAGACGTTCCTCGCTTGCTTCY				
13213	T	T	S	CAGAGAAGCAAGCGAGGAATGCCACAGCCCCTTCGCTGCTCACA				
13213	T	C	S	CAGAGAAGCAAGCGAGGAACGCCACAGCCCCTTCGCTGCTCACA				
				GTGCCGGGGCCTCAGACCGGGCCCAACTCTAGACACTTCCACAGAGAAGCAAGCGAGGAA[TC]GCCACAGCCCCTTCGCTGCTCACAGCCTCATTTCAACTCTG				
13213	IS	[TC]		AGCCCCTCCTCACAGGGCT				
13214	I		A	GTACTGAGCACCCGACAGTGCCTGTCAA				
13214	P	T	A	CGCGCCGAGGTATGGTAGGCACTTAGCGY				
13214	P	C	A	ATGACGTGGCAGACCATGGTAGGCACTTAGCY				
13214	T	T	A	TATTCGCTAAGTGCCTACCATATGACAGGCACTGTCGGGTGCTCAGTACAC				
13214	T	C	A	TATTCGCTAAGTGCCTACCATGTGACAGGCACTGTCGGGTGCTCAGTACAC				
				GGACAGGGCTGTGACTGTCCTATTGGTTGATGTGTACTGAGCACCCGACAGTGCCTGTCA[TC]ATGGTAGGCACTTAGCGAATATTTGGAGGCCACTGTTGAGTG				
13214	IS	[TC]		AATGGGAGAACTGCTGGT				
13215	I		A	CCCAACAGCCTCCTGTTGGGCAATTTCCTT				
13215	P	G	A	ATGACGTGGCAGACGTTCCAGAATCAACTCCACY				
13215	P	C	A	CGCGCCGAGGCTTCCAGAATCAACTCCACY				
13215	T	G	A	GGTAGTGGAGTTGATTCTGGAACAGGAAATTGCCCAACAGGAGGCTGTTGGGCT				
13215	T	C	A	GGTAGTGGAGTTGATTCTGGAAGAGGAAATTGCCCAACAGGAGGCTGTTGGGCT				
				GGCTGAGAACAGGGAGCAAGCGTACCTCAAGCCCAACAGCCTCCTGTTGGGCAATTTCCT[GC]TTCCAGAATCAACTCCACTACCCATCCTGGGGCCGACCTACA				
13215	IS	[GC]		GGAGAATTTCTGCCGCAA				
13217	I		A	GCTCAGTACCAGGTGGGAGTTGATTTGTCTTCTCAA				
13217	P	T	A	CGCGCCGAGGTTGTTCTCTTTGGCTGTGY				
13217	P	C	A	ATGACGTGGCAGACCTGTTCTCTTTGGCTGTGY				
13217	T	T	A	CACACACAGCCAAAGAGAACAATGAGAAGACAAATCAACTCCCACCTGGTACTGAGCAC				
13217	T	C	A	CACACACAGCCAAAGAGAACAGTGAGAAGACAAATCAACTCCCACCTGGTACTGAGCAC				
				AGCGGGTATTTATATATGCACATGTGCTCAGTACCAGGTGGGAGTTGATTTGTCTTCTCA[TC]TGTTCTCTTTGGCTGTGTGTGCTTTGTAGTTATGTCACGCATCT				
13217	IS	[TC]		GATGAAGCGAATTCAG	ctg11	15		
13228	I		A	GCGTAAGCCAGCCTGGTGCCACCT				
13228	P	C	A	ATGACGTGGCAGACCGGAGCGGCGTTY				
13228	P	A	A	CGCGCCGAGGAGGAGCGGCGTTAAY				
13228	T	C	A	CCCGTTAACGCCGCTCCGGGTGGCACCAGGCTGGCTTACGCGG				
13228	T	A	A	CCCGTTAACGCCGCTCCTGGTGGCACCAGGCTGGCTTACGCGG				
				GCTGCCCCTCCGCAGAGGGAGCCGGCTCGGGGTCCCCGCGTAAGCCAGCCTGGTGCCACC[CA]GGAGCGGCGTTAACGGGTGCGTGGTGTCTCGGCTCTGCA				
1322B	IS	[CA]		GGGCGTCATGGTCGGTATGGG	ctg4256	1		
13240	I		A	ACACAACCAGCTGCCCCTTGTCATA				
13240	P	C	A	ATGACGTGGCAGACCGAGTTCACCGAGCAY				
13240	P	T	A	CGCGCCGAGGTGAGTTCACCGAGCAY				
13240	T	C	A	CACCTGCTCGGTGAACTCGATGACAAGGGGCAGCTGGTTGTGTTT				
13240	T	T	A	CACCTGCTCGGTGAACTCAATGACAAGGGGCAGCTGGTTGTGTTT				
				GGAGGTCACCAAGGAGAACCTGCTGGACTTTATCAAACACAACCAGCTGCCCCTTGTCAT[CT]GAGTTCACCGAGCAGGTGCGGCTGCCCTGCAGCCCCCAGGC				
13240	IS	[CT]		TGGGGATGGGGAGGAGTGG	ctg18647	17		
13243	I		A	CAGCATTGCATCGTTAGCTTCTCCTGATAAACTAATTGA				
13243	P	T	A	CGCGCCGAGGTCTCACATTGTCACTGCY				
13243	P	C	A	ATGACGTGGCAGACCCTCACATTGTCACTGCY				
13243	T	T	A	ATTTGCAGTGACAATGTGAGACAATTAGTTTATCAGGAGAAGCTAACGATGCAATGCTGAC				
13243	T	C	A	ATTTGCAGTGACAATGTGAGGCAATTAGTTTATCAGGAGAAGCTAACGATGCAATGCTGAC				

FIGURE 129B

				CTATATATAGAGATATCTTTGTCAGCATTGCATCGTTAGCTTCTCCTGATAAACTAATTG[TC]CTCACATTGTCACTGCAAATCGACACCTATTAATGGGTCTCACCT			
13243	IS	[TC]		CCCAACTGCTTCCCC	ctg16105	5	
13246	I		A	CAGAGTGAGTTCAGATCCGCCCAACAGTGGA			
13246	P	T	A	CGCGCCGAGGTGACCGCCCACCY			
13246	P	C	A	ATGACGTGGCAGACCGACCGCCCACCY			
13246	T	T	A	AGGAGGTGGGCGGTCACCACTGTTGGGCGGATCTGAACTCACTCTGAG			
13246	T	C	A	AGGAGGTGGGCGGTCGCCACTGTTGGGCGGATCTGAACTCACTCTGAG			
				CTCAACTCCTCCCTCAGTCCCCACTGCACTCAGAGTGAGTTCAGATCCGCCCAACAGTGG[TC]GACCGCCCACCTCCTCTGGTCCACAATGGCAGGAGATGGACA			
13246	IS	[TC]		GGAGCTTTGGCCACACAC	ctg14747	2	
13251	I		S	GGGGAGAGCCCTTGCTTTCTATCCCCAT			
13251	P	T	S	CGCGCCGAGGAATTGCTCCTGGGAAGAY			
13251	P	C	S	ATGACGTGGCAGACGATTGCTCCTGGGAAGAY			
13251	T	T	S	GTTATCTTCCCAGGAGCAATTTGGGGATAGAAAGCAAGGGCTCTCCCCTT			
13251	T	C	S	GTTATCTTCCCAGGAGCAATCTGGGGATAGAAAGCAAGGGCTCTCCCCTT			
				GTCATTGAAAATTTCTTCGCCAAAAGGTGCTTCTGAAACTGTTATCTTCCCAGGAGCAAT[TC]TGGGGATAGAAAGCAAGGGCTCTCCCCTTGGCTGGCCATGTTC			
13251	IS	[TC]		CCAGCTGGCCTTTTTCT	ctg14747	2	
13257	I		S	GGGTTGCTTTGGCATGACCTTTTCTTCAGTATATCTCCAA			
13257	P	A	S	CGCGCCGAGGTAGTCCCCAGTAATCACCY			
13257	P	G	S	ATGACGTGGCAGACCAGTCCCCAGTAATCACY			
13257	T	A	S	ATGGGGTGATTACTGGGGACTATGGAGATATACTGAAGAAAAGGTCATGCCAAAGCAACCCAT			
13257	T	G	S	ATGGGGTGATTACTGGGGACTGTGGAGATATACTGAAGAAAAGGTCATGCCAAAGCAACCCAT			
				TAAATTACTAAACACAGGTTTGACAGGATTAATACAAGAATGGGGTGATTACTGGGGACT[AG]TGGAGATATACTGAAGAAAAGGTCATGCCAAAGCAACCCATTTT			
13257	IS	[AG]		CATTTTCAATAAGATT	ctg17326	12	
13260	I		A	GGGGTCTGATGACACAGGCTGACTCATGGA			
13260	P	C	A	ATGACGTGGCAGACCCGGGCTGACTGCY			
13260	P	T	A	CGCGCCGAGGTCGGGCTGACTGCY			
13260	T	C	A	GGGGGCAGTCAGCCCGGCCATGAGTCAGCCTGTGTCATCAGACCCCTG			
13260	T	T	A	GGGGGCAGTCAGCCCGACCATGAGTCAGCCTGTGTCATCAGACCCCTG			
				GGCCACGCGGGACCGACTTTCCATTGATTCAGGGGTCTGATGACACAGGCTGACTCATGG[CT]CGGGCTGACTGCCCCCCTGCCTTGCTCCCCGAGGCCTGCC			
13260	IS	[CT]		GGTCCTTCCCTCTCATGACT	ctg22fin4	22	
13264	I		S	CCTCCCAGCTGTAGAGTGGCTTATACGCCAT			
13264	P	T	S	CGCGCCGAGGAATCTCGCTGAGCCTTY			
13264	P	C	S	ATGACGTGGCAGACGATCTCGCTGAGCCTY			
13264	T	T	S	TAAGAAGGCTCAGCGAGATTTGGCGTATAAGCCACTCTACAGCTGGGAGGAA			
13264	T	C	S	TAAGAAGGCTCAGCGAGATCTGGCGTATAAGCCACTCTACAGCTGGGAGGAA			
				CACATAGTCACATTGTCAAATAGCGTATTCACCTTCTCTTATAAGAAGGCTCAGCGAGAT[TC]TGGCGTATAAGCCACTCTACAGCTGGGAGGAAGCCAAGCAGAA			
13264	IS	[TC]		AACGGTGGAGTGGGTTG	ctg12729	1	MULTIPLE SHORT GENE NAMES
13267	I		A	CTGTTGTTACTATTATGGCCAGAGATGTGGCCTTTGATTTGATA			
13267	P	C	A	ATGACGTGGCAGACCGCCTTAGATGGGATGAY			
13267	P	T	A	CGCGCCGAGGTGCCTTAGATGGGATGATY			
13267	T	C	A	TCCCATCATCCCATCTAAGGCGATCAAATCAAAGGCCACATCTCTGGCCATAATAGTAACAACAGCA			
13267	T	T	A	TCCCATCATCCCATCTAAGGCAATCAAATCAAAGGCCACATCTCTGGCCATAATAGTAACAACAGCA			
				TTAGGATAGACATATTGCTGTTGTTACTATTATGGCCAGAGATGTGGCCTTTGATTTGAT[CT]GCCTTAGATGGGATGATGGGATGCTGATGCCCCATTTAAGCCA			
13267	IS	[CT]		GTGGTTCTGAATCTGGG	ctg12325	11	
13285	I		S	GGAGATCCTAGAAGGAGCGGAGAAGCTGCTC			
13285	P	A	S	CGCGCCGAGGTCTTGGTGAGGAGAGCY			
13285	P	C	S	ATGACGTGGCAGACGCTTGGTGAGGAGAGCY			
13285	T	A	S	GAGAGCTCTCCTCACCAAGAAGCAGCTTCTCCGCTCCTTCTAGGATCTCCGC			
13285	T	C	S	GAGAGCTCTCCTCACCAAGCAGCAGCTTCTCCGCTCCTTCTAGGATCTCCGC			
				ATCCCCCGGGGCTGGGATCTCTTTTATAAAAGGCCATTCCTGAGAGCTCTCCTCACCAAG[AC]AGCAGCTTCTCCGCTCCTTCTAGGATCTCCGCCTGGTTCGGC			
13285	IS	[AC]		CCGCCTGCCTCCACTCCT	ctg15285	12	
13299	I		A	CCCTGGCTGGATGACAGGACTTCATGCCT			
13299	P	A	A	CGCGCCGAGGATCTGTGCCCATGCCY			
13299	P	G	A	ATGACGTGGCAGACGTCTGTGCCCATGCY			
13299	T	A	A	GGGTGGCATGGGCACAGATGGCATGAAGTCCTGTCATCCAGCCAGGGAG			
13299	T	G	A	GGGTGGCATGGGCACAGACGGCATGAAGTCCTGTCATCCAGCCAGGGAG			
				ACTTTGGTCAAGATGAGGAGGGCAGGGAGGCTCCCTGGCTGGATGACAGGACTTCATGCC[AG]TCTGTGCCCATGCCACCCAGCTTCCCTCCTGGGGACACAGA			
13299	IS	[AG]		GTGGTGAGGGTGGTGCAGA	ctg16279	17	
13302	I		A	CATTACACTAGTTTTTACTAACTTTGGGATGACTTCCCCTTTAATT			
13302	P	C	A	CGCGCCGAGGCCCTGCTTTTAACAGTGAAY			
13302	P	G	A	ATGACGTGGCAGACGCCTGCTTTTAACAGTGAY			
13302	T	C	A	GTTCTTCACTGTTAAAAGCAGGGATTAAAGGGGAAGTCATCCCAAAGTTAGTAAAAACTAGTGTAATGAG			
13302	T	G	A	GTTCTTCACTGTTAAAAGCAGGCATTAAAGGGGAAGTCATCCCAAAGTTAGTAAAAACTAGTGTAATGAG			
				ATATTTTTAAATTCTCATTACACTAGTTTTTACTAACTTTGGGATGACTTCCCCTTTAAT[CG]CCTGCTTTTAACAGTGAAGAACATATACAATGCACTATTTTCAAAT			
13302	IS	[CG]		GAATTTGGAGAAAG	*MULTIPLE*	*MULTIPLE*	
13363	I		A	CGCGTCGCTGAGGGGTAGCGATGA			
13363	P	C	A	ATGACGTGGCAGACCGGGCTCCGGGGY			
13363	P	T	A	CGCGCCGAGGTGGGCTCCGGGGY			
13363	T	C	A	TCATCCCCGGAGCCCGCATCGCTACCCCTCAGCGACGCGGC			
13363	T	T	A	TCATCCCCGGAGCCCACATCGCTACCCCTCAGCGACGCGGC			
				GGAGCCGCCCCGCGGGCACCTGCGCGTTAAGAGTGGGCCGCGTCGCTGAGGGGTAGCGATG[CT]GGGCTCCGGGGATGAGGTCGCGGCCGGCGGGTCCCGCG			
13363	IS	[CT]		CTGTTGCTGCTGCTGCTCTTCC			
13454	I		A	TCTGTCCCCGGCTTTTGGGCTCTGAT			
13454	P	A	A	CGCGCCGAGGAGGACTAACCACGTGCY			
13454	P	G	A	ATGACGTGGCAGACGGGACTAACCACGTGCY			
13454	T	A	A	GAAAGCACGTGGTTAGTCCCTCAGAGCCCAAAAGCCGGGGACAGACA			
13454	T	G	A	GAAAGCACGTGGTTAGTCCCTCAGAGCCCAAAAGCCGGGGACAGACA			
				CCGTCACGGGAGAGGGAAGGCAGCTCCTGGCTGTGTCTGTCCCCGGCTTTTGGGCTCTGA[AG]GGACTAACCACGTGCTTTCTCACTTGTCTCAGATTGCCCAG			
13454	IS	[AG]		CTGCCCTTGACCGGAAGCA			
13655	I		S	GACCAGCAGAGGCTGCAGGCTGTGT			
13655	P	C	S	ATGACGTGGCAGACGAACAGCTCCTCACCCY			
13655	P	T	S	CGCGCCGAGGAAACAGCTCCTCACCCY			
13655	T	C	S	CTAAGGGTGAGGAGCTGTTCCACAGCCTGCAGCCTCTGCTGGTCTC			
13655	T	T	S	CTAAGGGTGAGGAGCTGTTTCACAGCCTGCAGCCTCTGCTGGTCTC			
				TGCTGTGCTAGGCCTGCTCTGCGTGCAGCTGGGCCCTGGACCTAAGGGTGAGGAGCTGTT[CT]CACAGCCTGCAGCCTCTGCTGGTCTCTGTGCTCAGTGACAG			
13655	IS	[CT]		CACAGCTAGCCCTGCTGCC	ctg16733	3	IFRD2
4033	I		S	GATTCAAGCAATTCTCCTGCCTCAGCCTCCCT			
4033	P	C	S	CGCGCCGAGGGAGTAGCTGGGACTACAGG			
4033	P	T	S	CGCGCCGAGGAAGTAGCTGGGACTACAGG			
4033	T	C	S	CACTCCTGTAGTCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATTGCTTGAATCTG			
4033	T	T	S	CACTCCTGTAGTCCCAGCTACTTGGGAGGCTGAGGCAGGAGAATTGCTTGAATCTG			
				CCTGAGGACAGGAGTTCAAGACCAGCCTGGCCAACATGGTGAAACCCCTTCTCTACTAAAAATTCAAAAAAATTAGCCCAGTGTTGCTGCACACTCCTGTAGTCCC			
4033	IS	[CT]		AGCTACT[CT]GGGAGGCTGAGGCAGGAGAATTGCTTGAATCTGGGAGGCGGAGGTTGCAGTGAGCCATTGCCCTCCA	ctg15944	11	
4057	I		A	GCAATTTCAAGTATTCATAGGCTCCTCAGAATCCATGAATCCCAT			
4057	P	G	A	CGCGCCGAGGGTGCGTGAATCCTGTGTT			
4057	P	A	A	CGCGCCGAGGATGCGTGAATCCTGTGTTG			
4057	T	G	A	TGGGCAACACAGGATTCACGCACTGGGATTCATGGATTCTGAGGAGCCTATGAATACTTGAAATTGCAC			
4057	T	A	A	TGGGCAACACAGGATTCACGCATTGGGATTCATGGATTCTGAGGAGCCTATGAATACTTGAAATTGCAC			

FIGURE 129B

4057	IS	[GA]		GTAGGTGCAATTTCAAGTATTCATAGGCTCCTCAGAATCCATGAATCCCA[GA]TGCGTGAATCCTGTGTTGCCCAGGCTGGTCTGGAATCCATGAATCCTTTC	ctg22fin4	22
4764	I		A	CCTTTGTCCCAGGCCTCAGCCTCCAGT		
4764	P	C	A	CGCGCCGAGGCCCTTTCCCAGCCTGY		
4764	P	G	A	CGCGCCGAGGGCCTTTCCCAGCCTGY		
4764	T	C	A	GGCCCAGGCTGGGAAAGGGCTGGAGGCTGAGGCCTGGGACAAAGGGC		
4764	T	G	A	GGCCCAGGCTGGGAAAGGCCTGGAGGCTGAGGCCTGGGACAAAGGGC		
4764	IS	[CG]		CCCTTGGCTTCACCCTCCTGTGGCCCTTTGTCCCAGGCCTCAGCCTCCAG[CG]CCTTTCCCAGCCTGGGCCGGGCCACTGCCACCCCTCTATTCCCCACTCCC	ctg22fin4	22
4778	I		A	ACCCAGATATCCTAATCTTCAGTAGCTGACCTAAACCCTGGAT		
4778	P	C	A	CGCGCCGAGGCAAGTGGGATCAAACCCCY		
4778	P	A	A	CGCGCCGAGGAAAGTGGGATCAAACCCCY		
4778	T	C	A	TTATGGGGTTTGATCCCACTTGTCCAGGGTTTAGGTCAGCTACTGAAGATTAGGATATCTGGGTAC		
4778	T	A	A	TTATGGGGTTTGATCCCACTTTTCCAGGGTTTAGGTCAGCTACTGAAGATTAGGATATCTGGGTAC		
4778	IS	[CA]		TAAGAGGTACCCAGATATCCTAATCTTCAGTAGCTGACCTAAACCCTGGA[CA]AAGTGGGATCAAACCCCATAACCAAATACAACTTTTTAGGAACTAAGTGG	MULTIPLE	MULTIPLE
4795	I		A	TCAAACAGTATCTATGCCTGCCAAATGTGAACATACAAAAAACAAATCAGT		
4795	P	C	A	CGCGCCGAGGCATGTGCCATTCTGATTTAAACTGY		
4795	P	A	A	CGCGCCGAGGAATGTGCCATTCTGATTTAAACTGY		
4795	T	C	A	TAAGCAGTTTAAATCAGAATGGCACATGCTGATTTGTTTTTTGTATGTTCACATTTGGCAGGCATAGATACTGTTTGA		
4795	T	A	A	TAAGCAGTTTAAATCAGAATGGCACATTCTGATTTGTTTTTTGTATGTTCACATTTGGCAGGCATAGATACTGTTTGA		
4795	IS	[CA]		TCAAACAGTATCTATGCCTGCCAAATGTGAACATACAAAAAACAAATCAG[CA]ATGTGCCATTCTGATTTAAACTGCTTATTAGTTAATACCCTCAAGATAAC	MULTIPLE	MULTIPLE
6989	I		S	GGTGAAACCTATAGACCCCGTCTGAGCATAACGTTTTAAAATGCT		
6989	P	T	S	CGCGCCGAGGATACGTGGCCCGGTY		
6989	P	C	S	CGCGCCGAGGGTACGTGGCCCGGTY		
6989	T	T	S	CCACACCGGGCCACGTATGCATTTTAAAACGTTATGCTCAGACGGGGTCTATAGGTTTCACCAG		
6989	T	C	S	CCACACCGGGCCACGTACGCATTTTAAAACGTTATGCTCAGACGGGGTCTATAGGTTTCACCAG		
6989	IS	[TC]		CTCCCAAAGTGCTGGGATTACAGGTGTAAGCCACCACACCGGGCCACGTA[TC]GCATTTTAAAACGTTATGCTCAGACGGGGTCTATAGGTTTCACCAGACTG	MULTIPLE	22
7016	I		A	GCCTGTCTCCTTGGCTTATAAAGTGATGGTTTTCCTATGTTTTCACT		
7016	P	G	A	CGCGCCGAGGGTGGCCTTCCATCTGTAAC		
7016	P	A	A	CGCGCCGAGGATGGCCTTCCATCTGTAACT		
7016	T	G	A	AGACAGTTACAGATGGAAGGCCACGTGAAAACATAGGAAAACCATCACTTTATAAGCCAAGGAGACAGGCCT		
7016	T	A	A	AGACAGTTACAGATGGAAGGCCATGTGAAAACATAGGAAAACCATCACTTTATAAGCCAAGGAGACAGGCCT		
7016	IS	[GA]		TGAGGCCTGTCTCCTTGGCTTATAAAGTGATGGTTTTCCTATGTTTTCAC[GA]TGGCCTTCCATCTGTAACTGTCTGTGTCCAAATTTTCTCTTCTTATAAGG	ctg22fin4	22
7018	I		A	GACTATCACAGGAGTCCTATATTTAGAGCTTAAATAACCAAGAGTGGCTT		
7018	P	INS	A	CGCGCCGAGGGGCTCTTGCCTGCC		
7018	P	DEL	A	CGCGCCGAGGGCTCTTGCCTGCCG		
7018	T	INS	A	GCCACGGCAGGCAAGAGCCAGCCACTCTTGGTTATTTAAGCTCTAAATATAGGACTCCTGTGATAGTC		
7018	T	DEL	A	GCCACGGCAGGCAAGAGCAGCCACTCTTGGTTATTTAAGCTCTAAATATAGGACTCCTGTGATAGTC		
7018	IS	[G-]		GACTATCACAGGAGTCCTATATTTAGAGCTTAAATAACCAAGAGTGGCTG[G-]CTCTTGCCTGCCGTGGCATTTACTGATTATGGTCACTCCCTGGCTAAAAT	ctg22fin4	22
7019	I		A	GGTGATTTTGTGCATTCTGTATCTCTTGCCCCTGCTCA		
7019	P	T	A	CGCGCCGAGGTGGGCTCCAGCTGAG		
7019	P	C	A	CGCGCCGAGGCGGGCTCCAGCTGA		
7019	T	T	A	GCGCCTCAGCTGGAGCCCAGAGCAGGGGCAAGAGATACAGAATGCACAAAATCACCCC		
7019	T	C	A	GCGCCTCAGCTGGAGCCCGGAGCAGGGGCAAGAGATACAGAATGCACAAAATCACCCC		
7019	IS	[TC]		GGAGAGGTTCTGGGGTGATTTTGTGCATTCTGTATCTCTTGCCCCTGCTC[TC]GGGCTCCAGCTGAGGCGCCCAGCAGTTCTATATTCTATGCATGGAAATAC	ctg22fin4	22
7020	I		S	AGCTGTTGGGGCGAAGTGTGTTAGCTCATGACT		
7020	P	T	S	CGCGCCGAGGAACTATGGAAAGGAATCCACATG		
7020	P	C	S	CGCGCCGAGGGACTATGGAAAGGAATCCACAT		
7020	T	T	S	GCATCATGTGGATTCCTTTCCATAGTTGTCATGAGCTAACACACTTCGCCCCAACAGCTGG		
7020	T	C	S	GCATCATGTGGATTCCTTTCCATAGTCGTCATGAGCTAACACACTTCGCCCCAACAGCTGG		
7020	IS	[TC]		AGGGAGGTTGGCAAGGAAAGGGGAGCATCATGTGGATTCCTTTCCATAGT[TC]GTCATGAGCTAACACACTTCGCCCCAACAGCTGGCTTAGATTCTAATTGT	ctg22fin4	22
7023	I		S	GCCCTTGGGCAAGTCATTTCACTCTTTGAGCTTTGTTTTCT		
7023	P	C	S	CGCGCCGAGGGTGTCTTTTAATTCTGTAGCCTTC		
7023	P	T	S	CGCGCCGAGGATGTCTTTTAATTCTGTAGCCTTCA		
7023	T	C	S	AAACTGAAGGCTACAGAATTAAAAGACACGAAAACAAAGCTCAAAGAGTGAAATGACTTGCCCAAGGGCAT		
7023	T	T	S	AAACTGAAGGCTACAGAATTAAAAGACATGAAAACAAAGCTCAAAGAGTGAAATGACTTGCCCAAGGGCAT		
7023	IS	[CT]		TTATTTACATTTACAGGTGAGAAAACTGAAGGCTACAGAATTAAAAGACA[CT]GAAAACAAAGCTCAAAGAGTGAAATGACTTGCCCAAGGGCATGGGAAGCA	ctg22fin4	22
7041	I		A	CACAAGCAGGCTGGGGGGCCCT		
7041	P	INS	A	CGCGCCGAGGCCATGGTATGGACCACG		
7041	P	DEL	A	CGCGCCGAGGCATGGTATGGACCACGG		
7041	T	INS	A	CCCACCGTGGTCCATACCATGGGGCCCCCCAGCCTGCTTGTGCA		
7041	T	DEL	A	CCCACCGTGGTCCATACCATGGGGCCCCCCAGCCTGCTTGTGCA		
7041	IS	[-C]		GCAGGTACCCCTGGCGGCCGCTACCATGCACAAGCAGGCTGGGGGGCCCC[-C]ATGGTATGGACCACGGTGGGCTGTGGAGCCGCCGTCCCCGGGCCCAGAAG	ctg22fin6	22
7048	I		S	GATAAACACATAACTCTCATGTCCTTTTTCCCTGGTACTTAAAATTTCAAT		
7048	P	C	S	CGCGCCGAGGGGTAAAGTAGATTCCTTAGTTATCTGC		
7048	P	T	S	CGCGCCGAGGAGTAAAGTAGATTCCTTAGTTATCTGC		
7048	T	C	S	CTTTGCAGATAACTAAGGAATCTACTTTACCTTGAAATTTTAAGTACCAGGGAAAAAGGACATGAGAGTTATGTGTTTATC		
7048	T	T	S	CTTTGCAGATAACTAAGGAATCTACTTTACTTTGAAATTTTAAGTACCAGGGAAAAAGGACATGAGAGTTATGTGTTTATC		
7048	IS	[CT]		TGATCAAAATTAAATTTTCTCTTTGCAGATAACTAAGGAATCTACTTTAC[CT]TTGAAATTTTAAGTACCAGGGAAAAAGGACATGAGAGTTATGTGTTTATC	ctg22fin7	22
7052	I		A	GGGGCTCCAAAAGGCTGATCTCTAAAAGGGGTT		
7052	P	C	A	CGCGCCGAGGCCCTAGCACTCAAGGCCY		
7052	P	G	A	CGCGCCGAGGGCCTAGCACTCAAGGCY		
7052	T	C	A	AAAGGGCCTTGAGTGCTAGGGACCCCTTTTAGAGATCAGCCTTTTGGAGCCCCCC		
7052	T	G	A	AAAGGGCCTTGAGTGCTAGGCACCCCTTTTAGAGATCAGCCTTTTGGAGCCCCCC		
7052	IS	[CG]		AGCTTCTCCAAGGGGTGGGGGGCTCCAAAAGGCTGATCTCTAAAAGGGGT[CG]CCTAGCACTCAAGGCCCTTTCCTGGCCTCCTTCCAGAGCTACTTGAGATC	ctg22fin4	22
7057	I		A	CGAATTGGAGGTACTCTAATTTATTTGACATTCTCTAGTTATCGGACTTCT		
7057	P	A	A	CGCGCCGAGGATGTCTGCTCTTTCAATGCTAC		
7057	P	G	A	CGCGCCGAGGGTGTCTGCTCTTTCAATGCT		
7057	T	A	A	GACTGTAGCATTGAAAGAGCAGACATGAAGTCCGATAACTAGAGAATGTCAAATAAATTAGAGTACCTCCAATTCG		
7057	T	G	A	GACTGTAGCATTGAAAGAGCAGACACGAAGTCCGATAACTAGAGAATGTCAAATAAATTAGAGTACCTCCAATTCG		
7057	IS	[AG]		CGAATTGGAGGTACTCTAATTTATTTGACATTCTCTAGTTATCGGACTTC[AG]TGTCTGCTCTTTCAATGCTACAGTCAACATGGTGATGAAATTTTCTGGTT	ctg22fin4	22
7059	I		S	ACTCTTCCCTGTAGGTCCTGGGTGATAAAGTTGGGTCTTATTAATT		
7059	P	T	S	CGCGCCGAGGATCTGTCCCTCCAGTGTC		
7059	P	G	S	CGCGCCGAGGCTCTGTCCCTCCAGTGTC		
7059	T	T	S	CATGGACACTGGAGGGACAGATATTAATAAGACCCAACTTTATCACCCAGGACCTACAGGGAAGAGTGA		
7059	T	G	S	CATGGACACTGGAGGGACAGAGATTAATAAGACCCAACTTTATCACCCAGGACCTACAGGGAAGAGTGA		

FIGURE 129B

7059	IS	[TG]		TCACTGTTCCCCTACCCTACTGTATACCACATGGACACTGGAGGGACAGA[TG]ATTAATAAGACCCAACTTTATCACCCAGGACCTACAGGGAAGAGTGACCA	ctg22fin4	22	
7062	I		A	CAAAATCCAGTATGGAAAGAAAAAAAAAACCCTATTCATTCAGTAAAGTT			
7062	P	INS	A	CGCGCCGAGGAGAGGCACAAACAAATGAGC			
7062	P	DEL	A	CGCGCCGAGGAAGGCACAAACAAATGAGC			
7062	T	INS	A	CAGAGGCTCATTTGTTTGTGCCTCTACTTTACTGAATGAATAGGGTTTTTTTTTTCTTTCCATACTGGATTTTG			
7062	T	DEL	A	CAGAGGCTCATTTGTTTGTGCCTTACTTTACTGAATGAATAGGGTTTTTTTTTTCTTTCCATACTGGATTTTG			
7062	IS	[-G]		CAAAATCCAGTATGGAAAGAAAAAAAAAACCCTATTCATTCAGTAAAGTA[-G]AGGCACAAACAAATGAGCCTCTGTTCACTTTATTCAAAGAGTATTTTTTT			
7065	I		S	ATAATTCCTGCATAAACCACGTCCATTTACAATTTCATTTTCTTCAAAGAT			
7065	P	C	S	CGCGCCGAGGGTTGTAAAAATTGAGTGCATCACT			
7065	P	G	S	CGCGCCGAGGCTTGTAAAAATTGAGTGCATCACTT			
7065	T	C	S	TTTTAAGTGATGCACTCAATTTTTACAACTCTTTGAAGAAAATGAAATTGTAAATGGACGTGGTTTATGCAGGAATTAT			
7065	T	G	S	TTTTAAGTGATGCACTCAATTTTTACAAGTCTTTGAAGAAAATGAAATTGTAAATGGACGTGGTTTATGCAGGAATTAT			
7065	IS	[CG]		GAGGTTGTACACTTAGATTTCTTTTTAAGTGATGCACTCAATTTTTACAA[CG]TCTTTGAAGAAAATGAAATTGTAAATGGACGTGGTTTATGCAGGAATTAT	ctg22fin4	22	
7067	I		A	*AGGTAAGCTTGGCCTGAACCTTTGGTGCACAAATTCATTAATAC*			
7067	P	A	A	CGCGCCGAGGAGTCTAACTCTCCTTCAGCCY			
7067	P	T	A	CGCGCCGAGGTGTCTAACTCTCCTTCAGCCY			
7067	T	A	A	TTATGGCTGAAGGAGAGTTAGACTTATTAATGAATTTGTGCACCAAAGGTTCAGGCCAAGCTT*ACCTCC*			
7067	T	T	A	TTATGGCTGAAGGAGAGTTAGACATATTAATGAATTTGTGCACCAAAGGTTCAGGCCAAGCTTACCTCC			
7067	IS	[AT]		AAAGAGGAGGTAAGCTTGGCCTGAACCTTTGGTGCACAAATTCATTAATA[AT]GTCTAACTCTCCTTCAGCCATAAGGTATTTGGAGTGAGAGACATGTTAAC	ctg22fin4	22	
7097	I		A	CCGTTCCGAGGGGCTGAGCACCTACTAA			
7097	P	C	A	*CGCGCCGAGGCCTGCAAGCCCAGC*			
7097	P	T	A	CGCGCCGAGGTCTGCAAGCCCAGCA			
7097	T	C	A	CCTGTGCTGGGCTTGCAGGTAGTAGGTGCTCAGCCCCTCGGAACGGAC			
7097	T	T	A	CCTGTGCTGGGCTTGCAGATAGTAGGTGCTCAGCCCCTCGGAACGGAC			
7097	IS	[CT]		*TTCTCTGTG*TACAACAGCAGCGTCCGTTCCGAGGGGCTGAGCACCTACTA[CT]CTGCAAGCCCAGCACAGGCGCTTCACACCCCCTTCCTACCCCATGGCAAT	ctg22fin4	22	
7098	I		S	GGGAGACGCTGGACACTGTCACCAACTCAGA			
7098	P	G	S	CGCGCCGAGGCGATATCAGCTGCCGAC			
7098	P	A	S	CGCGCCGAGGTGATATCAGCTGCCGACA			
7098	T	G	S	GCTCTGTCGGCAGCTGATATCGCTGAGTTGGTGACAGTGTCCAGCGTCTCCCTG			
7098	T	A	S	GCTCTGTCGGCAGCTGATATCACTGAGTTGGTGACAGTGTCCAGCGTCTCCCTG			
7098	IS	[GA]		AGGTCGGCGGGAGGGCCCTTCTGTGTGGAGCTCTGTCGGCAGCTGATATC[GA]CTGAGTTGGTGACAGTGTCCAGCGTCTCCCTGCACAACGCATTGGGCAGA	ctg22fin4	22	
7100	I		S	*CAGGAAATGACTCACCCTGGACAGAGCATTTAACTAGAAATCAAAATCTGC*			
7100	P	C	S	CGCGCCGAGGGGTTCTGGATCTGTGCAG			
7100	P	A	S	CGCGCCGAGGTGTTCTGGATCTGTGCAGA			
7100	T	C	S	AATCTCTGCACAGATCCAGAACCCAGATTTTGATTTCTAGTTAAATGC*TCTGTCCAGGGTGAGTCATTTCCTG*			
7100	T	A	S	AATCTCTGCACAGATCCAGAACACAGATTTTGATTTCTAGTTAAATGCTCTGTCCAGGGTGAGTCATTTCCTG			
7100	IS	[CA]		GGGTCTGTCATTTTCTTACTGAGGACCAAATCTCTGCACAGATCCAGAAC[CA]CAGATTTTGATTTCTAGTTAAATGCTCTGTCCAGGGTGAGTCATTTCCTG	ctg22fin4	22	
7128	I		A	AGGCCCTTCTGGACCTGAGTTTCTCATCTCTTTATTTCCTA			
7128	P	INS	A	*CGCGCCGAGGTCTTTTTATGTCCTGTTGGGGY*			
7128	P	DEL	A	CGCGCCGAGGTTTTATGTCCTGTTGGGGATTATTY			
7128	T	INS	A	TTAAAATAATCCCCAACAGGACATAAAAAGAAGGAAATAAAGAGATGAGAAACTCAGGTCCAGAAGGGCCTCC			
7128	T	DEL	A	TTAAAATAATCCCCAACAGGACATAAAAAGGAAATAAAGAGATGAGAAACTCAGGTCCAGAAGGGCCTCC			
7128	IS	[-CTT]		TGTTTTGGGAGGCCCTTCTGGACCTGAGTTTCTCATCTCTTTATTTCCT[-CTT]TTTATGTCCTGTTGGGGATTATTTTAAGCTTTAAGCACAGAGTTTAATTC	ctg22fin4	22	
7136	I		S	CCAGCGCTCACTCTACTCGAGTGGCTTTTTGAT			
7136	P	T	S	CGCGCCGAGGAAGCCCTACCATGTCTGT			
7136	P	C	S	CGCGCCGAGGGAGCCCTACCATGTCTGT			
7136	T	T	S	TGACACAGACATGGTAGGGCTTTCAAAAAGCCACTCGAGTAGAGTGAGCGCTGGCG			
7136	T	C	S	TGACACAGACATGGTAGGGCTCTCAAAAAGCCACTCGAGTAGAGTGAGCGCTGGCG			
7136	IS	[TC]		CAGCTGTAGGATGTGAAGCAGCACAGGCCTGACACAGACATGGTAGGGCT[TC]TCAAAAAGCCACTCGAGTAGAGTGAGCGCTGGCGACACAGCAGAGTTCCC	ctg22fin6	22	
7137	I		A	TCTATTTCAAAAAAACAAACAAACAACAAAAAAATTAGTTTGTTATAGTGT			
7137	P	A	A	CGCGCCGAGGATGGACCTATAAATGCCAGC			
7137	P	G	A	CGCGCCGAGGGTGGACCTATAAATGCCAGC			
7137	T	A	A	*AAATGCTGGCATTTATAGGTCCATCACTATAACAAACTAATTTTTTTGTTGTTTGTTTGTTTTTTTTGAAATAGA*			
7137	T	G	A	AAATGCTGGCATTTATAGGTCCACCACTATAACAAACTAATTTTTTTGTTGTTTGTTTGTTTTTTTGAAATAGA			
7137	IS	[AG]		TCTATTTCAAAAAAACAAACAAACAACAAAAAAATTAGTTTGTTATAGTG[AG]TGGACCTATAAATGCCAGC*ATTTTTCTAAAAACTTTTTTTCTTAAGTTTG*			
7230	I		A	CCCAGTGTGCGATGTGGGGAGGTGACA			
7230	P	T	A	CGCGCCGAGGTGGGTGAGCGTGAACA			
7230	P	C	A	CGCGCCGAGGCGGGTGAGCGTGAAC			
7230	T	T	A	GCCCTGTTCACGCTCACCCAGTCACCTCCCCACATCGCACACTGGGGC			
7230	T	C	A	GCCCTGTTCACGCTCACCCGGTCACCTCCCCACATCGCACACTGGGGC			
				GGCAGGCCAGGCTGAACCCGGGGCCCCAGTGTGCGATGTGGGGAGGTGAC[TC]GGGTGAGCGTGAACAGGGCGTGGGGTGCGCGGGGCGGGTGGCCGTGTG			
7230	IS	[TC]		AC	ctg22fin4	22	DIA1
7251	I		S	CTGTTTTGTGTCCACCCCTCAGAGACCCTGTC			
7251	P	A	S	CGCGCCGAGGTCCAAGCGTCTCGTGT			
7251	P	C	S	CGCGCCGAGGGCCAAGCGTCTCGTG			
7251	T	A	S	CCAAACACGAGACGCTTGGAACAGGGTCTCTGAGGGGTGGACACAAAACAGGG			
7251	T	C	S	CCAAACACGAGACGCTTGGCACAGGGTCTCTGAGGGGTGGACACAAAACAGGG			
7251	IS	[AC]		AGACACAGCTGCATTTGTGTTCTCGGTTCCTCCAAACACGAGACGCTTGG[AC]ACAGGGTCTCTGAGGGGTGGACACAAAACAGGGACCGCAGTCTGTGCCTC	ctg22fin9	22	
7270	I		A	ACCATTTTAAAACCATAAGACCAGCAAAAATTTAAAAAGCTATAATGCCTT			
7270	P	A	A	CGCGCCGAGGATTGCTTATAAAGGTCCAGAGAAA			
7270	P	G	A	CGCGCCGAGGGTTGCTTATAAAGGTCCAGAGAA			
7270	T	A	A	TCTTTTTCTCTGGACCTTTATAAGCAATAGGCATTATAGCTTTTTAAATTTTTGCTGGTCTTATGGTTTTAAAATGGT			
7270	T	G	A	TCTTTTTCTCTGGACCTTTATAAGCAACAGGCATTATAGCTTTTTAAATTTTTGCTGGTCTTATGGTTTTAAAATGGT			
7270	IS	[AG]		*ACCATTTTAAAACCATAAGACCAGCAAAAATTTAAAAAGCTATAATGCCT*[AG]TTGCTTATAAAGGTCCAGAGAAAAAGATACTGTCATACACAGCCACTAGA	ctg22fin5	22	
7274	I		S	ATTTGCTCACCCTTCTTGAGGAAAGTCAGCTTTATTATTTCTTATTCTGCT			
7274	P	C	S	CGCGCCGAGGGTAAGTGTTACACTTTCGCCAATT			
7274	P	T	S	CGCGCCGAGGATAAGTGTTACACTTTCGCCATTTT			
7274	T	C	S	GAAGATGGCGAAAGTGTAACACTTACGCAGAATAAGAAATAATAAAGCTGACTTTCCTCAAGAAGGGTGAGCAAAT			
7274	T	T	S	GAAGATGGCGAAAGTGTAACACTTATGCAGAATAAGAAATAATAAAGCTGACTTTCCTCAAGAAGGGTGAGCAAAT			
7274	IS	[CT]		AATTCCCCATCAATCAGGACTGACTGAAGATGGCGAAAGTGTAACACTTA[CT]GCAGAATAAGAAATAATAAAGCTGACTTTCCTCAAGAAGGGTGAGCAAAT	ctg22fin4	22	
7287	I		S	*TCAGTCCGTCAGGGTCAAGGCCACCAC*			
7287	P	C	S	CGCGCCGAGGGCCCTGCCTGGAACT			
7287	P	A	S	CGCGCCGAGGTCCCTGCCTGGAACTTT			
7287	T	C	S	TCTTAAAGTTCCAGGCAGGGCTGGTGGCCTTGACCCTGACGGACTGAAA			
7287	T	A	S	TCTTAAAGTTCCAGGCAGGGATGGTGGCCTTGACCCTGACGGACTGAAA			

FIGURE 129B

7287	IS	[CA]		AAATGAAGTCCCAGCACTGACCCCGGCAGCTCTTAAAGTTCCAGGCAGGG[CA]TGGTGGCCTTGACCCTGACGGACTGAAAGCAACAGGTCTGACCACTTTCA	ctg22fin5	22
7293	I		A	AGCTACCAGATTCCAGATCAGATTGGTATAGTTTTCTGATGGGACAGT		
7293	P	A	A	CGCGCCGAGGACCTGACCATGTTTGAGG		
7293	P	G	A	CGCGCCGAGGGCCTGACCATGTTTGAGG		
7293	T	A	A	CAGCCCTCAAACATGGTCAGGTCTGTCCCATCAGAAAACTATACCAATCTGATCTGGAATCTGGTAGCTTC		
7293	T	G	A	CAGCCCTCAAACATGGTCAGGCCTGTCCCATCAGAAAACTATACCAATCTGATCTGGAATCTGGTAGCTTC		
7293	IS	[AG]		AGAAGCTACCAGATTCCAGATCAGA*TTGGTATAGTTTTCTGATGGGACAG[AG]CCT*GACCATGTTTGAGGGCTGAACAGAAGCAGATACTAGGTTAAAGCTAT	ctg22fin4	22
7300	I		S	GCTGGCAGGTTTAGACAGGGCGGTCAGT		
7300	P	T	S	CGCGCCGAGGAAAGGTGACACTGAGCAGA		
7300	P	G	S	CGCGCCGAGGCAAGGTGACACTGAGCAG		
7300	T	T	S	AGTCTCTGCTCAGTGTCACCTTTCTGACCGCCCTGTCTAAACCTGCCAGCTC		
7300	T	G	S	AGTCTCTGCTCAGTGTCACCTTGCTGACCGCCCTGTCTAAACCTGCCAGCTC		
7300	IS	[TG]		TGGCAGGGCCCCTCCCTCACCTCCTGCAAGTCTCTGCTCAGTGTCACCTT[TG]CTGACCGCCCTGTCTAAACCTGCCAGCTCCACTAGCACCCTGGTGCTCCC	ctg22fin6	22
7303	I		S	CCAGGCATGTGTCACTTTGGGTTAGCCTAGTGCA		
7303	P	A	S	CGCGCCGAGGTCTGCCACTCTCAGTCAA		
7303	P	G	S	CGCGCCGAGGCCTGCCACTCTCAGTCA		
7303	T	A	S	GCACTTGACTGAGAGTGGCAGAGCACTAGGCTAACCCAAAGTGACACATGCCTGGCG		
7303	T	G	S	GCACTTGACTGAGAGTGGCAGGGCACTAGGCTAACCCAAAGTGACACATGCCTGGCG		
7303	IS	[AG]		CGCTTGACCCGTCTGATGTGCTGCCGTGGGCACTTGACTGAGAGTGGCAG[AG]GCACTAGGCTAACCCAAAGTGACACATGCCTGGCGGGATGTTCAGTCTCT	ctg22fin4	22
7334	I		S	GTTTTCAGTGAGTTACGTGAATTCCTCTAGTGAATTATAAAATCTAAGGAA		
7334	P	G	S	CGCGCCGAGGCGGGATTTAGGAATCCCCTTAAAT		
7334	P	A	S	CGCGCCGAGGTGGATTTAGGAATCCCCTTAAATTT		
7334	T	G	S	CTGCAAATTTAAGGGGATTCCTAAATCCGTCCTTAGATTTTATAATTCACTAGAGGAATTCACGTAACTCACTGAAAAC		
7334	T	A	S	CTGCAAATTTAAGGGGATTCCTAAATCCATCCTTAGATTTTATAATTCACTAGAGGAATTCACGTAACTCACTGAAAAC		
7334	IS	[GA]		GCACCCTTATCTTTGACACTAACTGCAAATTTAAGGGGATT*CCTAAATCC[GA]TCCTTAGATTTTATAATT*CACTAGAGGAATTCACGTAACTCACTGAAAAC	ctg22fin4	22
7340	I		S	GCCTTTCTGGCTCCCCTGGGCTCAGAT		
7340	P	C	S	CGCGCCGAGGGCTGCTCTGAGCTGC		
7340	P	G	S	CGCGCCGAGGCCTGCTCTGAGCTGCT		
7340	T	C	S	TGTGAGCAGCTCAGAGCAGCTCTGAGCCCAGGGGAGCCAGAAAGGCAC		
7340	T	G	S	TGTGAGCAGCTCAGAGCAGGTCTGAGCCCAGGGGAGCCAGAAAGGCAC		
7340	IS	[CG]		AAAGAGGGATCTGGGACTCAGGCCAGAGGCGTGTGAGCAGCTCAGAGCAG[CG]TCTGAGCCCAGGGGAGCCAGAAAGGCACACCCACAGTTCTCAGGCAGGGG	ctg22fin4	22
7341	I		S	CATTTTCAAGGTGCCCTTCAGCACAAACAATTAAGTCTCAGAGTTT		
7341	P	C	S	CGCGCCGAGGGAGAAACCATGGAGCCAAA		
7341	P	G	S	CGCGCCGAGGCAGAAACCATGGAGCCAAA		
7341	T	C	S	TCTTTTTGGCTCCATGGTTTCTCAACTCTGAGACTTAATTGTTTGTGCTGAAGGGCACCTTGAAAATGCT		
7341	T	G	S	TCTTTTTGGCTCCATGGTTTCTGAACTCTGAGACTTAATTGTTTGTGCTGAAGGGCACCTTGAAAATGCT		
7341	IS	[CG]		TGTGCCTTCAGGATCTTTGCTCCTTCTCTCTTTTTGGCTCCATGGTTTCT[CG]AACTCTGAGACTTAATTGTTTGTGCTGAAGGGCACCTTGAAAATGCTGTG	ctg22fin4	22
7361	I		S	TTGGTATCTTTCTTTTGTGATAGCTTTATTTTCATGAAGACTTTCCCCTCT		
7361	P	T	S	CGCGCCGAGGATGCAGGTAAGATGACCATAAG		
7361	P	C	S	CGCGCCGAGGGTGCAGGTAAGATGACCATAAG		
7361	T	T	S	GTTGCTTATGGTCATCTTACCTGCATGAGGGGAAAGTCTTCATGAAAATAAAGCTATCACAAAAGAAAGATACCAA		
7361	T	C	S	GTTGCTTATGGTCATCTTACCTGCACGAGGGGAAAGTCTTCATGAAAATAAAGCTATCACAAAAGAAAGATACCAA		
7361	IS	[TC]		*TTGGTTT*GAAGAACACCTAGAGTTAGTTGCTTATGGTCATCTTACCTGCA[TC]GAGGGGAAAGTCTTCATGAAAATAAAGCTATCACAAAAGAAAGATACCAA	ctg22fin4	22
7367	I		A	GCCTCAGTATTATCAGATGGTAATACTGAGGGCTGTACAGGTGAAC		
7367	P	INS	A	CGCGCCGAGGGTAAGGCGCCAAGACAG		
7367	P	DEL	A	CGCGCCGAGGGGCGCCAAGACAGTTATG		
7367	T	INS	A	AAATCATAACTGTCTTGGCGCCTTACTTCACCTGTACAGCCCTCAGTATTACCATCTGATAATACTGAGGCCC		
7367	T	DEL	A	AAATCATAACTGTCTTGGCGCCTTCACCTGTACAGCCCTCAGTATTACCATCTGATAATACTGAGGCCC		
7367	IS	[-TAAG]		GCGGGCCTCAGTATTATCAGATGGTAATACTGAGGGCTGTACAGGTGAAG[-TAAG]GCGCCAAGACAGTTATGATTTGAATTCAGGCCAGCTGGTGCCATAGTCAG	ctg22fin4	22
7436	I		S	GAAAGCTCCTGCCAGCTGAATTGCATGTTTTTTACAAAATTAAGCTC		
7436	P	C	S	CGCGCCGAGGGAAAACCAGGGAGTGGCTTT		
7436	P	A	S	CGCGCCGAGGTAAAACCAGGGAGTGGCTTT		
7436	T	C	S	CACCGCCACTCCCTGGTTTTCAGCTTAATTTTGTAAAAAACATGCAATTCAGCTGGCAGGAGCTTTCAG		
7436	T	A	S	CACCGCCACTCCCTGGTTTTAAGCTTAATTTTGTAAAAAACATGCAATTCAGCTGGCAGGAGCTTTCAG		
7436	IS	[CA]		GCCATGGAAACTTTCTCCCCACCCCACCCCCACCGCCACTCCCTGGTTTT[CA]AGCTTAATTTTGTAAAAAACATGCAATTCAGCTGGCAGGAGCTTTCAGAT	ctg22fin7	22
7438	I		S	CAGTGCTCAGGGACCCTCTGTCCTGACTCA		
7438	P	A	S	CGCGCCGAGGTAGTCCTGTGCGGGAGTTT		
7438	P	G	S	CGCGCCGAGGCAGTCCTGTGCGGGATTT		
7438	T	A	S	CTCCCTCCCGCACAGGACTAGAGTCAGGACAGAGGGTCCCTGAGCACTGGG		
7438	T	G	S	CTCCCTCCCGCACAGGACTGGAGTCAGGACAGAGGGTCCCTGAGCACTGGG		
7438	IS	[AG]		TCAGCAATGGCAGGAGTCAGGCGGGGAGCACCTCCCTCCCGCACAGGACT[AG]GAGTCAGGACAGAGGGTCCCTGAGCACTGGGACATGTCCGTCCTGGCATG	ctg22fin7	22
7518	I		A	CTGTGGCTCAGAGAAGGGAAGTCACTGTTTTAAGGTGAT		
7518	P	A	A	CGCGCCGAGGAGTGGCCAGTGGAGG		
7518	P	C	A	*CGCGCCGAGGCGT*GGCCAGTGGAGG		
7518	T	A	A	CCCACCTCCACTGGCCACTTCACCTTAAAACAGTGACTTCCCTTCTCTGAGCCACAGTT		
7518	T	C	A	CCCACCTCCACTGGCCACGTCACCTTAAAACAGTGACTTCCCTTCTCTGAGCCACAGTT		
7518	IS	[AC]		CGGATGAGGAAACTGTGGCTCAGAGAAGGGAAGTCACTGTTTTAAGGTGA[AC]GTGGCCAGTGGAGGTGGGGCTAGGGTTCGAATCCTAGGATCAGGCACACT	ctg22fin4	22
7523	I		A	GGAGAAGATACAGAGTCTAATGAGAAACTGAATTCAGCAAAAAGGAACGC		
7523	P	A	A	CGCGCCGAGGAGTGATGTTTAAGCCTCATTAGG		
7523	P	T	A	CGCGCCGAGGTGTGATGTTTAAGCCTCATTAGG		
7523	T	A	A	*TAGCCCTAATGAGGCT*TAAACATCACTCGTTCCTTTTTTGCTGAATTCAGTTTCTCATTAGACTCTGTATCTTCTCC		
7523	T	T	A	TAGCCCTAATGAGGCTTAAACATCACACGTTCCTTTTTTGCTGAATTCAGTTTCTCATTAGACTCTGTATCTTCTCC		
7523	IS	[AT]		GGAGAAGATACAGAGTCTAATGAGAAACTGAATTCAGCAAAAAGGAACG[AT]GTGA*TGTTTAAGCCTCATTAGGGCTATAGAACCAGCGTTCTGACAAAAAA*	ctg22fin4	22
7531	I		S	TGCTGAGTGAAGTCGCCGCTCACTTTTGGATTCTTAA		
7531	P	A	S	CGCGCCGAGGTGGACTGTGAGTTAGTCTTCC		
7531	P	G	S	CGCGCCGAGGCGGACTGTGAGTTAGTCTTC		
7531	T	A	S	AGAGGGAAGACTAACTCACAGTCCATAAGAATCCAAAAGTGAGCGGCGACTTCACTCAGCAAC		
7531	T	G	S	AGAGGGAAGACTAACTCACAGTCCGTAAGAATCCAAAAGTGAGCGGCGACTTCACTCAGCAAC		
7531	IS	[AG]		TTTATACCCTTCCTGTGACTCCGTGTAGAGGGAAGACTAACTCACAGTCC[AG]TAAGAATCCAAAAGTGAGCGGCGACTTCACTCAGCAACCCATCCTGCCTC	ctg22fin6	22
7533	I		A	AGGGGACCAAGGTCAGCGAGAAAGGAGAGAAT		
7533	P	G	A	CGCGCCGAGGGAGGTATGGGATCCGGAC		
7533	P	C	A	CGCGCCGAGGCAGGTATGGGATCCGGA		
7533	T	G	A	GGCTGTCCGGATCCCATACCTCTTCTCTCCTTTCTCGCTGACCTTGGTCCCCTTT		
7533	T	C	A	GGCTGTCCGGATCCCATACCTGTTCTCTCCTTTCTCGCTGACCTTGGTCCCCTTT		

FIGURE 129B

7533	IS	[GC]		GACCCAGTCTGTGGCAAAAAGGGGACCAAGGTCAGCGAGAAAGGAGAGAA[GC]AGGTATGGGATCCGGACAGCCGAATCGAGAACCCAGCAGACGTGTGGGAT	ctg22fin7	22	
7536	I		A	GGCAGAGCCGGGGCTGCCCA			
7536	P	T	A	CGCGCCGAGGTTTCTGCTGGTGCCTC			
7536	P	C	A	CGCGCCGAGGCTTCTGCTGGTGCCTC			
7536	T	T	A	AAAGGAGGCACCAGCAGAAAGGGCAGCCCCGGCTCTGCCAG			
7536	T	C	A	AAAGGAGGCACCAGCAGAAGGGGCAGCCCCGGCTCTGCCAG			
7536	IS	[TC]		TTTGTTGTGACTTCCTCCCACCGCAGCAGCTGGCAGAGCCGGGGCTGCCC[TC]TTCTGCTGGTGCCTCCTTTCAGCCGCCTCTGTCTGGGGTTCCCTTCGTCT	ctg22fin4	22	
7537	I		A	TGGTAGCTTTATCCATACTGCCCACATTGAAAGCAACCTTC			
7537	P	T	A	CGCGCCGAGGTATGTTCTTCAGTAGGCGAATG			
7537	P	G	A	CGCGCCGAGGGATGTTCTTCAGTAGGCGAAT			
7537	T	T	A	GGTACATTCGCCTACTGAAGAACATAAAGGTTGCTTTCAATGTGGGCAGTATGGATAAAGCTACCATA			
7537	T	G	A	GGTACATTCGCCTACTGAAGAACATCAAGGTTGCTTTCAATGTGGGCAGTATGGATAAAGCTACCATA			
7537	IS	[TG]		GGAATGTTTATGGTAGCTTTATCCATACTGCCCACATTGAAAGCAACCTT[TG]ATGTTCTTCAGTAGGCGAATGTACCAACAAACTTTGTTACACTGATCAAT	ctg22fin4	22	
7541	I		A	GCAAATGGAAAAAAAAAAAAAGAAGTGTGAGGTTCCCCCCCAT			
7541	P	G	A	CGCGCCGAGGGCAACTCCTTGTTTTTTTGGAAA			
7541	P	A	A	CGCGCCGAGGACAACTCCTTGTTTTTTTGGAAAC			
7541	T	G	A	CCGAGTTTCCAAAAAAACAAGGAGTTGCTGGGGGGGAACCTCACACTTCTTTTTTTTTTTTCCATTTGCAC			
7541	T	A	A	CCGAGTTTCCAAAAAAACAAGGAGTTGTTGGGGGGGAACCTCACACTTCTTTTTTTTTTTTCCATTTGCAC			
7541	IS	[GA]		AAATCAGTGCAAATGGAAAAAAAAAAAAAAGAAGTGTGAGGTTCCCCCCCA[GA]CAACTCCTTGTTTTTTTGGAAACTCGGCTACACTTGGGCAGCTGCTTCCT			
7545	I		A	CACCAGCCTATGGCACACATCACCCCCT			
7545	P	A	A	CGCGCCGAGGATCCAGGATGCTCCATTG			
7545	P	G	A	CGCGCCGAGGGTCCAGGATGCTCCATTG			
7545	T	A	A	TCTGCAATGGAGCATCCTGGATGGGGGTGATGTGTGCCATAGGCTGGTGTG			
7545	T	G	A	TCTGCAATGGAGCATCCTGGACGGGGGTGATGTGTGCCATAGGCTGGTGTG			
7545	IS	[AG]		CTCCATGAAGTCTTTCCTGACCACACCAGCCTATGGCACACATCACCCCC[AG]TCCAGGATGCTCCATTGCAGAAGTGTATTGAGCATCCTTCAAAATAATCC	ctg22fin4	22	
7551	I		A	TCTTCCAGTTCATTTATTCTCTCTTTAGGTCTCTCTAACCTGTTTTAATC			
7551	P	C	A	CGCGCCGAGGCCATCAATTGAGTTGTTACTGTG			
7551	P	T	A	CGCGCCGAGGTCATCAATTGAGTTGTTACTGTGT			
7551	T	C	A	AATAACACAGTAACAACTCAATTGATGGGATTAAAACAGGTTAGAGAGACCTAAAGAGAGAATAAATGAACTGGAAGA			
7551	T	T	A	AATAACACAGTAACAACTCAATTGATGAGATTAAAACAGGTTAGAGAGACCTAAAGAGAGAATAAATGAACTGGAAGA			
7551	IS	[CT]		TCTTCCAGTTCATTTATTCTCTCTTTAGGTCTCTCTAACCTGTTTTAATC[CT]CATCAATTGAGTTGTTACTGTGTTATTTCTAATTTCAGTTCCAGAATTTC	ctg22fin6	22	
7569	I		A	GGCTCAAGGACACAGGGAGGGTGGGATGT			
7569	P	A	A	CGCGCCGAGGAACCGAGGGGAGCTG			
7569	P	G	A	CGCGCCGAGGGACCGAGGGGAGCTG			
7569	T	A	A	TGGACAGCTCCCCTCGGTTCATCCCACCCTCCCTGTGTCCTTGAGCCTG			
7569	T	G	A	TGGACAGCTCCCCTCGGTCCATCCCACCCTCCCTGTGTCCTTGAGCCTG			
7569	IS	[AG]		ACATAAATGCTTACTGGGGCCAGGCTCAAGGACACAGGGAGGGTGGGATG[AG]ACCGAGGGGAGCTGTCCAGTCATTGGAACAGGCCCACGGCCCATGTTTGG	ctg22fin4	22	
7608	I		S	TTGACCATTTAGAAACTTTTCATTATTATTCATTTCTTTAGGTAGCTCGTT			
7608	P	T	S	CGCGCCGAGGAATTCTTGTCTAGGGCTGATTC			
7608	P	C	S	CGCGCCGAGGGATTCTTGTCTAGGGCTGATTC			
7608	T	T	S	GCAAGAATCAGCCCTAGACAAGAATTAGGAGCTACCTAAAGAAATGAATAATAATGAAAAGTTTCTAAATGGTCAA			
7608	T	C	S	GCAAGAATCAGCCCTAGACAAGAATCAGGAGCTACCTAAAGAAATGAATAATAATGAAAAGTTTCTAAATGGTCAA			
7608	IS	[TC]		GAGAAACTCTCTGAGGTAAAGATTAGCAAGAATCAGCCCTAGACAAGAAT[TC]AGGAGCTACCTAAAGAAATGAATAATAATGAAAAGTTTCTAAATGGTCAA	ctg22fin4	22	
7611	I		S	GCTCACTCTTCCAAGTGCCAGCTCCGCT			
7611	P	C	S	CGCGCCGAGGGGATGCCTTCCAGCTC			
7611	P	T	S	CGCGCCGAGGAGATGCCTTCCAGCTCC			
7611	T	C	S	AGGGGGAGCTGGAAGGCATCCGCGGAGCTGGCACTTGGAAGAGTGAGCGG			
7611	T	T	S	AGGGGGAGCTGGAAGGCATCTGCGGAGCTGGCACTTGGAAGAGTGAGCGG			
7611	IS	[CT]		CAGCGCTGGCCCAGCTGCGTGGCATTCTGGAGGGGGAGCTGGAAGGCATC[CT]GCGGAGCTGGCACTTGGAAGAGTGAGCGGGTCATCACGTCCCGTCAGGGG	ctg22fin4	22	GCAT
7615	I		A	TGCCTATTCCACACTTCTGGCCCTGGCTT			
7615	P	A	A	CGCGCCGAGGACAGGGTGGGTCCC			
7615	P	G	A	CGCGCCGAGGGCAGGGTGGGTCCC			
7615	T	A	A	TAGGGGGACCCACCCTGTAGCCAGGGCCAGAAGTGTGGAATAGGCAGG			
7615	T	G	A	TAGGGGGACCCACCCTGCAGCCAGGGCCAGAAGTGTGGAATAGGCAGG			
7615	IS	[AG]		GGGTCTTTCTCAAATGCAAACCTGCCTATTCCACACTTCTGGCCCTGGCT[AG]CAGGGTGGGTCCCCCTAACCCTCTTCATGGCCTCCTGGGGTCTGTCGCCA	ctg22fin4	22	
7618	I		A	CCTGCCTCTAAGCGCTGGTGTGAGGACTT			
7618	P	C	A	CGCGCCGAGGGCGGTGTGCTCTCACAC			
7618	P	G	A	CGCGCCGAGGGCGTGTGCTCTCACAC			
7618	T	C	A	GCACGTGTGAGAGCACACGGAGTCCTCACACCAGCGCTTAGAGGCAGGCA			
7618	T	G	A	GCACGTGTGAGAGCACACGCAGTCCTCACACCAGCGCTTAGAGGCAGGCA			
7618	IS	[CG]		TGAAGTGGGAACGACAATCCTGCCTGCCTCTAAGCGCTGGTGTGAGGACT[CG]CGTGTGCTCTCACACGTGCAGGCTCAGCCTGTGCCCCACACATCCTCAGA	ctg22fin4	22	
7630	I		A	CAGGTGCTCCCTCCCAGCCGTCTA			
7630	P	C	A	CGCGCCGAGGCGCTGTGTCTTCACGAC			
7630	P	T	A	CGCGCCGAGGTGCTGTGTCTTCACGACA			
7630	T	C	A	GGGCTGTCGTGAAGACACAGCGAGACGGCTGGGAGGGAGCACCTGGC			
7630	T	T	A	GGGCTGTCGTGAAGACACAGCAAGACGGCTGGGAGGGAGCACCTGGC			
7630	IS	[CT]		TGATGCTGATGGAGCACTCACGTGTGCCAGGTGCTCCCTCCCAGCCGTCT[CT]GCTGTGTCTTCACGACAGCCCTGAATGATGGGAGTCACTACTATCCCTGG	ctg22fin5	22	
7631	I		S	GGTGCTGCTGTGGGTCTCCAACAAGCAAT			
7631	P	T	S	CGCGCCGAGGAGCCTAGAAGCAGGGACTTT			
7631	P	C	S	CGCGCCGAGGGGCCTAGAAGCAGGGATTT			
7631	T	T	S	TTGTGTCCCTGCTTCTAGGCTTTGCTTGTTGGAGACCCACAGCAGCACCTA			
7631	T	C	S	TTGTGTCCCTGCTTCTAGGCCTTGCTTGTTGGAGACCCACAGCAGCACCTA			
7631	IS	[TC]		CCAGCTCATCAGGTGAGTCCTACCTGGATTTTGTGTCCCTGCTTCTAGGC[TC]TTGCTTGTTGGAGACCCACAGCAGCACCTAGCCCTGGGTAAATACTTGTG	ctg22fin5	22	
7636	I		S	CCGTAGCTCCTCCTTAATGGGAGCCTTGCCA			
7636	P	A	S	CGCGCCGAGGTGTGACTATGTCGAGATCTTGA			
7636	P	G	S	CGCGCCGAGGCGTGACTATGTCGAGATCTTG			
7636	T	A	S	AATTTCAAGATCTCGACATAGTCACAGGCAAGGCTCCCATTAAGGAGGAGCTACGGCA			
7636	T	G	S	AATTTCAAGATCTCGACATAGTCACGGGCAAGGCTCCCATTAAGGAGGAGCTACGGCA			
7636	IS	[AG]		GCTGAATCGGGTGTGGCAAGGACATAATTTCAAGATCTCGACATAGTCAC[AG]GGCAAGGCTCCCATTAAGGAGGAGCTACGGCAGAAATCATTGGTGTCCTG	ctg22fin4	22	
7639	I		S	GGCTCCCAACAGGCATGCCCAGCTTCT			
7639	P	T	S	CGCGCCGAGGACCAGTTTTCTAAATTAGAGTGACT			
7639	P	C	S	CGCGCCGAGGGCCAGTTTTCTAAATTAGAGTGACT			
7639	T	T	S	GGACAGTCACTCTAATTTAGAAAACTGGTGAAGCTGGGCATGCCTGTTGGGAGCCTG			
7639	T	C	S	GGACAGTCACTCTAATTTAGAAAACTGGCGAAGCTGGGCATGCCTGTTGGGAGCCTG			

FIGURE 129B

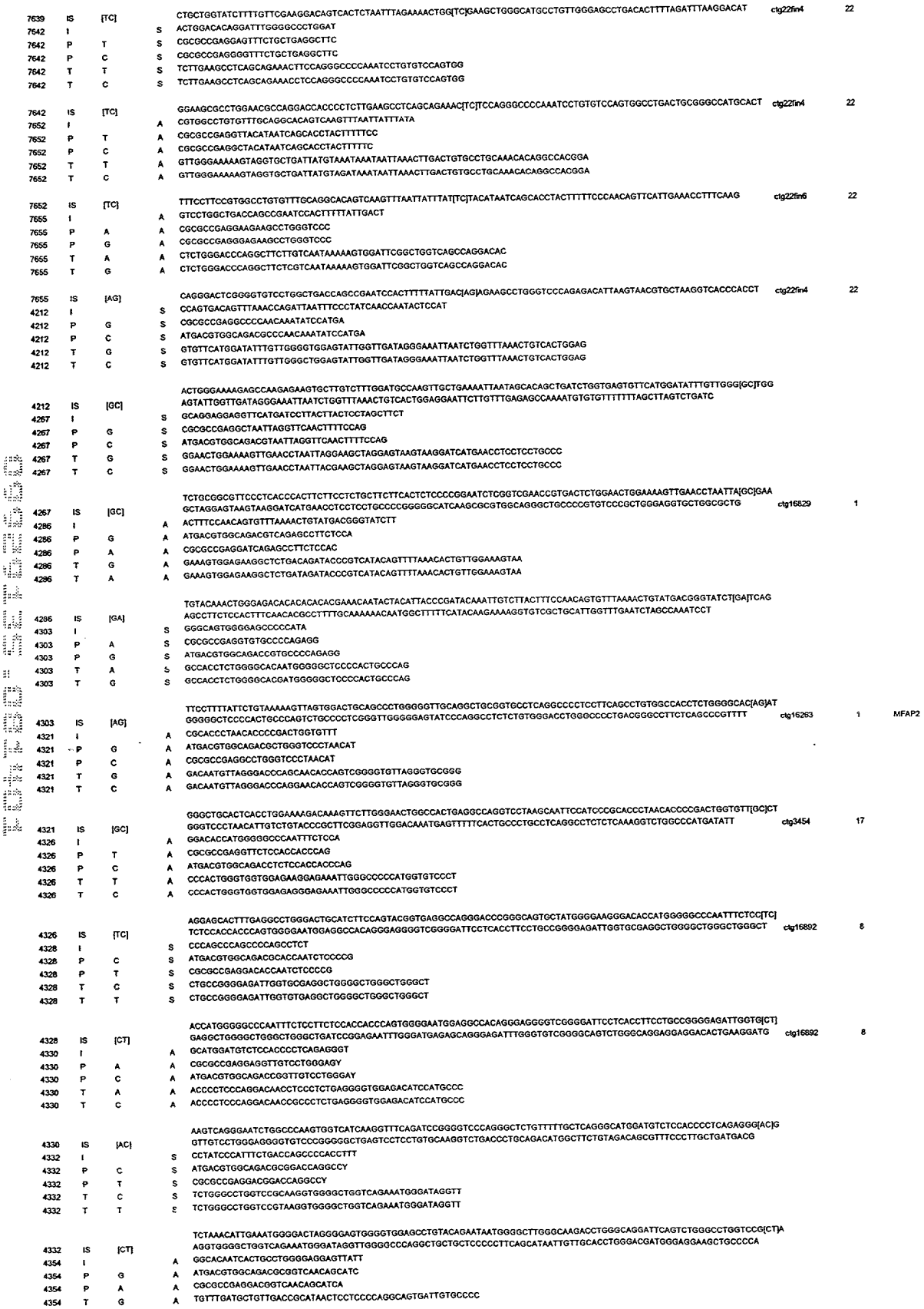


FIGURE 129B

4354	T	A	A	TGTTTGATGCTGTTGACCGTATAACTCCTCCCCAGGCAGTGATTGTGCCCC			
				CGGATCAGAGAAGAAAGACTTTTACAAGGATGGGAAACGGCTGAAGAATTACAACATGCCCTGGGGGGCGGGGCACAATCACTGCCTGGGGAGGAGTTAT[GA]C			
4354	IS	[GA]		GGTCAACAGCATCAAACAGTGAGTGGGGGGCCAGGGCAGGGCCAGGGTGGCTCCTGATCCCCTGGTTGGCAGGCGCCCTTCTCTCCTGGGAAC			
4370	I		S	AGATGCTTTACCGCCCTGCTCCCTGA			
4370	P	G	S	ATGACGTGGCAGACGCCCTGCCCCCAAG			
4370	P	A	S	CGCGCCGAGGGTCCTGCCCCCAAG			
4370	T	G	S	AAAGCTTGGGGGCAGGGCCAGGGAGCAGGGCGGTAAAGCATCTGG			
4370	T	A	S	AAAGCTTGGGGGCAGGACCAGGGAGCAGGGCGGTAAAGCATCTGG			
				AGCCAGAAATTGACAGCCCAGGGGGTAAGAAGGCCCTGGATCCTTATGGCTTCTTAGATGAGGGAGAACCACGTAGGGATGGAGAAAGCTTGGGGGCAGG[GA]C			
4370	IS	[GA]		CAGGGAGCAGGGCGGTAAAGCATCTGGGGTACTGACACATTGTGAATTAGCTACGGCTGCCATGCCTTAAGGTTTGCCTGAAGCTGAGTGGATGTTTAC	ctg16105	5	
4375	I		S	AGAGCTCCTCTGAGGCTGAGGGAGCATA			
4375	P	G	S	ATGACGTGGCAGACCGCCCCGAAGGAC			
4375	P	A	S	CGCGCCGAGGTGCCCCGAAGGAC			
4375	T	G	S	TGGGGTCCTTCGGGGCGATGCTCCCTCAGCCTCAGAGGAGCTCTAC			
4375	T	A	S	TGGGGTCCTTCGGGGCAATGCTCCCTCAGCCTCAGAGGAGCTCTAC			
				AAATGAATCTCGTTCCCAAAGAACTACCCCCTTTTCAGCTGAGCCCTGGGGACTGTTCCAAAGCCAGTGAAATGTGAAGGAAAGTGGGGTCCTTCGGGGC[GA]AT			
4375	IS	[GA]		GCTCCCTCAGCCTCAGAGGAGCTCTACCCTGCTCCCTGCTTTGGCTGAGGGGCTTGGGAAAAAAACTTGGCACTTTTTCGTGTGGATCTTGCCACATT	ctg16105	5	IRF1
4387	I		S	ACAATCAGGTAGCATAACTACTTTTTAAAACTATGCCCTCAATC			
4387	P	C	S	ATGACGTGGCAGACGGTATAGATAGCAACATAGCTG			
4387	P	A	S	CGCGCCGAGGTGTATAGATAGCAACATAGCTG			
4387	T	C	S	CAAACAGCTATGTTGCTATCTATACCATTGAGGGCATAGTTTTAAAAAGTAGTTATGCTACCTGATTGTAT			
4387	T	A	S	CAAACAGCTATGTTGCTATCTATACAATTGAGGGCATAGTTTTAAAAAGTAGTTATGCTACCTGATTGTAT			
				ATTATCTGAGAAAATCAAATGATGCTGTTACAATAATTACGCTGGTACAAGTTAATAAAAGTGCCATGTTACAGTCAAACAGCTATGTTGCTATCTATAC[CA]ATTGA			
4387	IS	[CA]		GGGCATAGTTTTAAAAAGTAGTTATGCTACCTGATTGTATAAGGAACAAAACTGAGAGAAAAAATCTAAAAGGCCGCCTATGATTGAATGGAAAG	ctg14391	11	
4388	I		A	GCCCTTCCATAGCCTAATCCCTGGGCATTGA			
4388	P	C	A	ATGACGTGGCAGACCTTTCCACTGAGGTTGG			
4388	P	T	A	CGCGCCGAGGTTTTCCACTGAGGTTGG			
4388	T	C	A	ACCCCCAACCTCAGTGGAAAGCAATGCCCAGGGATTAGGCTATGGAAGGGCAA			
4388	T	T	A	ACCCCCAACCTCAGTGGAAAACAATGCCCAGGGATTAGGCTATGGAAGGGCAA			
				ACCAGCTAAGGACATTTCCCAGGGTTAATAGGGCCTGGTCCCTGGGAGGAAATTTGAATGGGTCCATTTTGCCCTTCCATAGCCTAATCCCTGGGCATTG[CT]TTT			
4388	IS	[CT]		CCACTGAGGTTGGGGGTTGGGGTGTACTAGTTACATATCTTCAACAGACCCCCTCTAGAAATTTTTCAGATGCTTCTGGGAGACACCCAAAGGGTGA	ctg14391	11	CD44
4399	I		A	TGCCAAAAAGGAATACTACATAAGGACAGCAACATGCCTT			
4399	P	A	A	CGCGCCGAGGATGGACATGAAGAAATTTGT			
4399	P	G	A	ATGACGTGGCAGACGTGGACATGAGAGAATTTGT			
4399	T	A	A	TAAGACAAATTCTCTCATGTCCATAGGCATGTTGCTGTCCTTATGTAGTATTCCTTTTTGGCAGA			
4399	T	G	A	TAAGACAAATTCTCTCATGTCCACAGGCATGTTGCTGTCCTTATGTAGTATTCCTTTTTGGCAGA			
				TTTACTCTGTTTTTCCAGGAAAAAGATATTCACTCAGGCTTGATAGGTCCCCTCCTAATCTGCCAAAAAGGAATACTACATAAGGACAGCAACATGCCT[AG]TGGAC			
4399	IS	[AG]		ATGAGAGAATTTGTCTTACTATTTATGACCTTTGATGAAAAGAAGAGCTGGTACTATGAAAAGAAGTCCCGAAGTTCTTGGAGACTCACATCCTC	ctg13446	1	
4482	I		A	AGCGGGTCTACACTGCCAAGTGAGTCCTAAT			
4482	P	A	A	CGCGCCGAGGACCTGATGTTGCTAATAAGTG			
4482	P	C	A	ATGACGTGGCAGACCCCTGATGTTGCTAATAAGT			
4482	T	A	A	CCCCCACTTATTAGCAACATCAGGTTTAGGACTCACTTGGCAGTGTAGACCCGCTCA			
4482	T	C	A	CCCCCACTTATTAGCAACATCAGGGTTAGGACTCACTTGGCAGTGTAGACCCGCTCA			
				CATAAAGTGGAGCACGAAAGCAGGACCCAGAATGGGAGGAGCTTCCAGAGGACCGGAACACTTGCCTTTGAGCGGGTCTACACTGCCAAGTGAGTCCTAA[AC]C			
4482	IS	[AC]		CTGATGTTGCTAATAAGTGGGGGCATGGGCAGGGGGGCCTCCTTCTAGGAGTGATGACCACCCTTAATACCACATGTCTGTCTGAGCCAAGTTTCTGAG			
4507	I		S	GGGACGGTCCAGATCGATGGCCACCT			
4507	P	G	S	ATGACGTGGCAGACCACTGAGCCGCTG			
4507	P	T	S	CGCGCCGAGGAACTGAGCCGCTGC			
4507	T	G	S	CGTAGCAGCGGCTCAGTGGGTGGCCATCGATCTGGACCGTCCCCT			
4507	T	T	S	CGTAGCAGCGGCTCAGTTGGTGGCCATCGATCTGGACCGTCCCCT			
				TTTAGAAGAAGAGCTGAAATGTCAGGAACAAAAAGAAGAACAGCTGCAGGAAGGGGTGCACCGGAAGGAGCCCCAGGGGGCCACGTAGCAGCGGCTCAGT[GT]G			
4507	IS	[GT]		GTGGCCATCGATCTGGACCGTCCCCTGCCCACTTGCTCCCCATGAGCACTGCGTACAAACATCCAAAAGTTCAACAACACCAGAACTGTGTGTCTCATG	ctg12414	1	
4630	I		S	GCTCCTTTCACAACCACTCTGGTATCTTACCCTCCTTAA			
4630	P	G	S	ATGACGTGGCAGACCGAGCAGGTACAAGGY			
4630	P	A	S	CGCGCCGAGGTGAGCAGGTACAAGGCY			
4630	T	G	S	ACGCGCCTTGTACCTGCTCGTAAGGAGGGTAAGATACCAGAGTGGTTGTGAAAGGAGCCC			
4630	T	A	S	ACGCGCCTTGTACCTGCTCATAAGGAGGGTAAGATACCAGAGTGGTTGTGAAAGGAGCCC			
				TGGGGCCGAGGAGCATGAAGTCTGTCGCTATAAAGAGGCCCTTGAACAATGTCGGCAGCTGTATTGGCGGAGAGACCTGGAACGCGCCTTGTACCTGCTC[GA]T			
4630	IS	[GA]		AAGGAGGGTAAGATACCAGAGTGGTTGTGAAAGGAGCCCAGGAAAGGGGGAGGGCAAGGGAAGAGGAAACTACAGCTGGTTCTAGAGGCCTTTGCAGCT	ctg15907	6	
4652	I		A	GTAGGGAGTTTTTCTCTTCAGGCTGCCAGA			
4652	P	T	A	CGCGCCGAGGTCACCTCCTGGGCTY			
4652	P	C	A	ATGACGTGGCAGACCCACCTCCTGGGCY			
4652	T	T	A	GTGGAGCCCAGGAGGTGACTGGCAGCCTGAAGAGAAAAACTCCCTACAT			
4652	T	C	A	GTGGAGCCCAGGAGGTGGCTGGCAGCCTGAAGAGAAAAACTCCCTACAT			
				TTTCAGACTGTCTGTCCAATGTTGTACACTTAGTGTTCATTGAGTAGAAATTCCTCTGTGTTGGTATTTATGTAGGGAGTTTTTCTCTTCAGGCTGCCAG[TC]CACC			
4652	IS	[TC]		TCCTGGGCTCCACCATGGTCGTCATACAGGTGGAAAATACGGTCTTCTTTGTCTCTGGGATGACTGTAGACTACACTTGTGACCCTGGCTATTTGC	ctg25114	1	
4674	I		A	CATCTTTATACTTAAGAAAATGTATTTGGAATCGTAATGTACTCATGCTCATT			
4674	P	G	A	ATGACGTGGCAGACGCCTTTACATGTTCCAGGY			
4674	P	A	A	CGCGCCGAGGACCTTTACATGTTCCAGGY			
4674	T	G	A	TAGACCTGGAACATGTAAAGGCATGAGCATGAGTACATTACGATTCCAAATACATTTTCTTAAGTATAAAGATGTT			
4674	T	A	A	TAGACCTGGAACATGTAAAGGTATGAGCATGAGTACATTACGATTCCAAATACATTTTCTTAAGTATAAAGATGTT			
				TTTTAGTTCTAATGTAAGAGATTGTTAACAGTGAGAGTCCCGGAGTAACATCTTTATACTTAAGAAAATGTATTTGGAATCGTAATGTACTCATGCTCAT[GA]CCTTT			
4674	IS	[GA]		ACATGTTCCAGGTCTACAGGTCCAACTGCTGCCACTGGCAGTAATCGAAGACTTCAGCAGACACAAAATCAAGTAGATGAGGTATTGCTCTGAAA	ctg1565	1	
4893	I		A	GGTGGGTAACCAAGTCCCTGGAAGGCAATTT			
4893	P	G	A	ATGACGTGGCAGACGAGGCGCCCATTTC			
4893	P	A	A	CGCGCCGAGGAAGGCGCCCATTTC			
4893	T	G	A	TTCTGAAATGGGCGCCTCAATTGCCTTCCAGGGACTTGGTTACCCACCTT			
4893	T	A	A	TTCTGAAATGGGCGCCTTAATTGCCTTCCAGGGACTTGGTTACCCACCTT			
				GGGCTATCCAAGCGCGGAGTCAGTTTATAAGGTGGGTAACCAAGTCCCTGGAAGGCAATT[GA]AGGCGCCCATTTCAGAAGAGTTACAGCCGTGAAAATTACTCA			
4893	IS	[GA]		GCAGTGCAGTTGGCTGAG	ctg14747	2	
4925	I		S	CCTCATCTACCCAGCAACTGTCGACGTCACAA			
4925	P	G	S	ATGACGTGGCAGACCGACCTGGGCCTC			
4925	P	A	S	CGCGCCGAGGTGACCTGGGCCTC			
4925	T	G	S	CAGGGAGGCCCAGGTCGTGTGACGTCGACAGTTGCTGGGTAGATGAGGCC			
4925	T	A	S	CAGGGAGGCCCAGGTCATGTGACGTCGACAGTTGCTGGGTAGATGAGGCC			
				ACCTCAGAACAGTAGGCGGGGATTGCCTAGTAAATATCTCCCATTCAGGGAGGCCCAGGTC[GA]TGTGACGTCGACAGTTGCTGGGTAGATGAGGCCAACACAGG			
4925	IS	[GA]		TTGCAAGAAGAGGCGGGGT	ctg15907	6	
4936	I		S	TGGCCTCACGTCTCCCCCAGAACTCTAT			

4936	P	G	S	CGCGCCGAGGCTCAGGTCAATGGTGG			
4936	P	C	S	ATGACGTGGCAGACGTCAGGTCAATGGTGG			
4936	T	G	S	GAGCCCACCATTGACCTGAGTAGAGTTCTGGGGGAGACGTGAGGCCAGT			
4936	T	C	S	GAGCCCACCATTGACCTGACTAGAGTTCTGGGGGAGACGTGAGGCCAGT			
4936	IS	[GC]		GGGGTCAGCTGGGAGACAAGCTCCGGATAGAGCTGGACATTGAGCCCACCATTGACCTGA[GC]TAGAGTTCTGGGGGAGACGTGAGGCCAGTACGAGGCCATG GTGGAGACCAATCGCCAGGA	ctg17036	17	
4954	I		S	GGTAATGGTGGCCTTGCTGCCTAGGGACA			
4954	P	A	S	CGCGCCGAGGTGGATGGAAAGGGGAT			
4954	P	G	S	ATGACGTGGCAGACCGGATGGAAAGGGGA			
4954	T	A	S	CCCCATCCCCTTTCCATCCAGTCCCTAGGCAGCAAGGCCACCATTACCCA			
4954	T	G	S	CCCCATCCCCTTTCCATCCGGTCCCTAGGCAGCAAGGCCACCATTACCCA			
4954	IS	[AG]		TTCCAACCACCCTCGTCCAGGACTGAGGCCTGGCTCCCACGCCCCATCCCCTTTCCATCC[AG]GTCCCTAGGCAGCAAGGCCACCATTACCCAGGAGGTAGGGA CCCTGATTAAGGTGTCACA	ctg17042	11	
5039	I		S	CAGCAAGATTGAAACCCAGGCTTATCTGACCCCT			
5039	P	C	S	ATGACGTGGCAGACGGTGTGAAACCTCATGTC			
5039	P	G	S	CGCGCCGAGGCGTGTGAAACCTCATGT			
5039	T	C	S	GTAGGACATGAGGTTTCACACCGGGGTCAGATAAGCCTGGGTTTCAATCTTGCTGTG			
5039	T	G	S	GTAGGACATGAGGTTTCACACGGGGGTCAGATAAGCCTGGGTTTCAATCTTGCTGTG			
5039	IS	[CG]		ATGTGAGTTTAAGACCATCAGCTAGGAAAGTGGAAAGCAGTAGGACATGAGGTTTCACAC[CG]GGGGTCAGATAAGCCTGGGTTTCAATCTTGCTGTGTCATTTAG AATGCTTTTGATTGCAA	ctg15064	7	
5079	I		A	AGGCTTGCTCCTCCCCCACCCAT			
5079	P	G	A	ATGACGTGGCAGACGCTCTCGTTTCCAATGC			
5079	P	A	A	CGCGCCGAGGACTCTCGTTTCCAATGC			
5079	T	G	A	ACGTGCATTGGAAACGAGAGCTGGGTGGGGGAGGAGCAAGCCTGG			
5079	T	A	A	ACGTGCATTGGAAACGAGAGTTGGGTGGGGGAGGAGCAAGCCTGG			
5079	IS	[GA]		TGCAAAAGGGCGCTCTGTGAGTCAGCCTGCTCCCCTCCAGGCTTGCTCCTCCCCCACCCA[GA]CTCTCGTTTCCAATGCACGTACAGCCCGTACACACCGTGTGC TGGGACACCCCACAGTCA	ctg15071	9	
5224	I		A	TGCAGGCCCCAAGAGCTTGCCCT			
5224	P	G	A	ATGACGTGGCAGACGTTGCGCTGTCCTC			
5224	P	A	A	CGCGCCGAGGATTGCGCTGTCCTCA			
5224	T	G	A	ACCCTGAGGACAGCGCAACGGGCAAGCTCTTGGGGCCTGCACC			
5224	T	A	A	ACCCTGAGGACAGCGCAATGGGCAAGCTCTTGGGGCCTGCACC			
5224	IS	[GA]		GGGTCCCCCGTGCCACAGCCTGGGTTGGGGTGAAATGGTGCAGGCCCCAAGAGCTTGCCC[GA]TTGCGCTGTCCTCAGGGTGCATGAGCTGGAGGAGATGGTG AAGGATCAGGAGACCACGGC	ctg17403	17	
5260	I		A	CTTGGACTTGTTTTCCACCCTCTGCAATGACCTA			
5260	P	T	A	CGCGCCGAGGTGTCAACTCAGCCCA			
5260	P	C	A	ATGACGTGGCAGACCGTCAACTCAGCCCA			
5260	T	T	A	TCCCTGGGCTGAGTTGACAAGGTCATTGCAGAGGGTGGAAAACAAGTCCAAGAG			
5260	T	C	A	TCCCTGGGCTGAGTTGACGAGGTCATTGCAGAGGGTGGAAAACAAGTCCAAGAG			
5260	IS	[TC]		GGAGGCTCCAAGTGGGGCCCTCTCCCTCTTGGACTTGTTTTCCACCCTCTGCAATGACCT[TC]GTCAACTCAGCCCAGGGATTTGTCTCCTCCACCTGGACATAC TACTTGCAGACTGACAAT	ctg17207	19	BSMAP
5277	I		A	CTGCGCTTCACCAGTGCCCCAGAA			
5277	P	C	A	ATGACGTGGCAGACCGATGACGTGGCCA			
5277	P	T	A	CGCGCCGAGGTGATGACGTGGCCAT			
5277	T	C	A	ACCCATGGCCACGTCATCGTCTGGGGCACTGGTGAAGCGCAGCA			
5277	T	T	A	ACCCATGGCCACGTCATCATCTGGGGCACTGGTGAAGCGCAGCA			
5277	IS	[CT]		GCCCTACAAGCTGGGACGCCAGTGGCCGGAGCTGCTGCTGCGCTTCACCAGTGCCCCAGA[CT]GATGACGTGGCCATGGGTCAGTGCTGCTGCCTGTCTGTCC TTGCCTCGGGACCACCTGAG	ctg17042	11	
5297	I		A	ACCCCAGGGACACCCAACTGTTCTGCA			
5297	P	T	A	CGCGCCGAGGTGGGAGCAACTATACAGAAY			
5297	P	C	A	ATGACGTGGCAGACCGGGAGCAACTATACAGAY			
5297	T	T	A	CCCTTTCTGTATAGTTGCTCCCAGCAGAACAGTTGGGTGTCCCTGGGGTGA			
5297	T	C	A	CCCTTTCTGTATAGTTGCTCCCGGCAGAACAGTTGGGTGTCCCTGGGGTGA			
5297	IS	[TC]		AACAGCAGTTAGGCTGGGTAAGCCTGATTAATTCACCCCAGGGACACCCAACTGTTCTGC[TC]GGGAGCAACTATACAGAAAGGGGAAGGAGGGGTTGTCAGTGT ACCGACCCTCAACCTGCT	ctg16400	17	
5316	I		A	CCTCTTGTTTACAGACATGCCTCAGACAAAATTCAAAGCCTT			
5316	P	A	A	CGCGCCGAGGATGTCATCAGAGAGTGAAAAGY			
5316	P	G	A	ATGACGTGGCAGACGTGTCATCAGAGAGTGAAAAY			
5316	T	A	A	TATCCTTTTCACTCTCTGATGACATAGGCTTTGAATTTTGTCTGAGGCATGTCTGTAAACAAGAGGCC			
5316	T	G	A	TATCCTTTTCACTCTCTGATGACACAGGCTTTGAATTTTGTCTGAGGCATGTCTGTAAACAAGAGGCC			
5316	IS	[AG]		TCTTGAAGTGGCCATTGGGCCTCTTGTTTACAGACATGCCTCAGACAAAATTCAAAGCCT[AG]TGTCATCAGAGAGTGAAAAGGATATGTCTTGTGTTAGATGGAAA AAATGGGCATGTCACA	ctg16105	5	
5348	I		S	GCGGCTCTGCGCTGAATCTGGCGA			
5348	P	G	S	ATGACGTGGCAGACCAAGGAGACCACTACAGA			
5348	P	A	S	CGCGCCGAGGTAAGGAGACCACTACAGAG			
5348	T	G	S	GCCTCTCTGTAGTGGTCTCCTTGCGCCAGATTCAGCGCAGAGCCGCCC			
5348	T	A	S	GCCTCTCTGTAGTGGTCTCCTTACGCCAGATTCAGCGCAGAGCCGCCC			
5348	IS	[GA]		CCTCTGGCCTGACTCACACCTGCCTCCTCTGTGCCTTGGCCTCTCTGTAGTGGTCTCCTT[GA]CGCCAGATTCAGCGCAGAGCCGCCCAGGAAAAGGAGCGGAG CCAGGAACTCAGGCGTCTG	ctg15907	6	
5364	I		S	TGTGAGGGTGGGACATGGAACAGATCCTCTGT			
5364	P	C	S	ATGACGTGGCAGACGGAAATCAGGCTGTAGC			
5364	P	T	S	CGCGCCGAGGAGAAATCAGGCTGTAGC			
5364	T	C	S	AAAGGCTACAGCCTGATTTCCCAGAGGATCTGTTCCATGTCCCACCCTCACAAG			
5364	T	T	S	AAAGGCTACAGCCTGATTTCTCAGAGGATCTGTTCCATGTCCCACCCTCACAAG			
5364	IS	[CT]		AATGCTAAGACAAAGAGATGGGCTGGGGGTAGGAAAAGGTAAAGGCTACAGCCTGATTTC[CT]CAGAGGATCTGTTCCATGTCCCACCCTCACAAGACAGATTAG ACACACACTCTACCTCCT	ctg22fin4	22	
5390	I		A	CACCAAGGGCCCCAACGACCACCT			
5390	P	G	A	ATGACGTGGCAGACGGGTCGTTCAAACCCY			
5390	P	C	A	CGCGCCGAGGCGGTCGTTCAAACCCY			
5390	T	G	A	CTGTGGGTTTGAACGACCCGGTGGTCGTTGGGGCCCTTGGTGGG			
5390	T	C	A	CTGTGGGTTTGAACGACCGGGTGGTCGTTGGGGCCCTTGGTGGG			
5390	IS	[GC]		ACGGGCCAGCTGCCAACAGCATCTCCGTCAGGACCCCCACCAAGGGCCCCAACGACCACC[GC]GGTCGTTCAAACCCACAGCCGCCAATCCAGCCACCGCCACT AGGGGCACCACTGCTGCGG	ctg19247	7	
5406	I		A	GTCTTCAAGGGTTGGCCAGTGCCCCT			
5406	P	G	A	ATGACGTGGCAGACGGCTTTCATCCTGGTCY			
5406	P	A	A	CGCGCCGAGGAGCTTTCATCCTGGTCCY			
5406	T	G	A	TTGAGGACCAGGATGAAAGCCGGGGCACTGGCCAACCCTTGAAGACAC			
5406	T	A	A	TTGAGGACCAGGATGAAAGCTGGGGCACTGGCCAACCCTTGAAGACAC			
5406	IS	[GA]		CGATAAGTTGTGGGACCAGCCCACAAGTTGCCAGTGTCTTCAAGGGTTGGCCAGTGCCCC[GA]GCTTTCATCCTGGTCCTCAACAGGCTTGTTTGTCTGTCAACA GCAATCACTGCTTGAGAA	ctg16114	X	
5450	I		A	ACCAAGATGCATTGGCCAGTGATATTTACCCTAT			
5450	P	A	A	CGCGCCGAGGATGAGAGCAAGAGAGCG			
5450	P	G	A	ATGACGTGGCAGACGTGAGAGCAAGAGAGC			
5450	T	A	A	CTGCCGCTCTCTTGCTCTCATTAGGGTAAATATCACTGGCCAATGCATCTTGGTTT			
5450	T	G	A	CTGCCGCTCTCTTGCTCTCACTAGGGTAAATATCACTGGCCAATGCATCTTGGTTT			
5450	IS	[AG]		AGAAGCTAGCTCCAGACAGAATCAAAAACCAAGATGCATTGGCCAGTGATATTTACCCTA[AG]TGAGAGCAAGAGAGCGGCAGTTGTGGCAAGAATTTGACAGAGA AGATTGAGGTAGGGCCG	ctg13206	14	
5464	I		S	AGACCATGGAGGCTGTGAGCTTAACCTGTGAA			
5464	P	G	S	ATGACGTGGCAGACCCCTGAGACTCCAGAC			

Replacement Sheet

FIGURE 129B

5464	P	A	S	CGCGCCGAGGTCCTGAGACTCCAGAC			
5464	T	G	S	TTGCGTCTGGAGTCTCAGGGTCACAGGTTAAGCTCACAGCCTCCATGGTCTCC			
5464	T	A	S	TTGCGTCTGGAGTCTCAGGATCACAGGTTAAGCTCACAGCCTCCATGGTCTCC			
5464	IS	[GA]		AGTCATAGGGAGGCTCTGACCATTCATCCACCACAGGTAGCTTGCGTCTGGAGTCTCAGG[GA]TCACAGGTTAAGCTCACAGCCTCCATGGTCTCCCTGGGATTT AAGTTGCTGCTGGAGATG	ctg15842	19	MULTIPLE SHORT GENE NAMES
5481	I		A	TGGCTGAACTGGTTAAAGAACAGTCTGGAATTCCAAAGGC			
5481	P	G	A	ATGACGTGGCAGACGTATCTCTAATGGGAACCAAGY			
5481	P	T	A	CGCGCCGAGGTTATCTCTAATGGGAACCAAGY			
5481	T	G	A	GTGTCTTGGTTCCCATTAGAGATACCCTTTGGAATTCCAGACTGTTCTTTAACCAGTTCAGCCAAG			
5481	T	T	A	GTGTCTTGGTTCCCATTAGAGATAACCTTTGGAATTCCAGACTGTTCTTTAACCAGTTCAGCCAAG			
5481	IS	[GT]		GGACAGAGAGAACAAGGCGCTTGGCTGAACTGGTTAAAGAACAGTCTGGAATTCCAAAGG[GT]TATCTCTAATGGGAACCAAGACACTGAGTATCACATTGGGCT GCGTGGGTTGCAAAGCCT	ctg14007	17	
5489	I		S	GCTGATTTTGCTACAGAAAAAGGTAAACAATGAACACAGAAATA			
5489	P	G	S	ATGACGTGGCAGACCAGTCTGTCATGGCAGY			
5489	P	A	S	CGCGCCGAGGTAGTCTGTCATGGCAGATY			
5489	T	G	S	GACAATCTGCCATGACAGACTGATTTCTGTGTTCATTGTTTACCTTTTTCTGTAGCAAAATCAGCTT			
5489	T	A	S	GACAATCTGCCATGACAGACTAATTTCTGTGTTCATTGTTTACCTTTTTCTGTAGCAAAATCAGCTT			
5489	IS	[GA]		CATGTGATTTCTGATTTGGAAAATAAATCAGTTTTATTTGACAATCTGCCATGACAGACT[GA]ATTTCTGTGTTCATTGTTTACCTTTTTCTGTAGCAAAATCAGCTTT AGTATTATTTCATC	ctg15422	X	
5505	I		S	AGTAAAAGAGGAAGCTGATCACATCTGCTTGCCAGACC			
5505	P	C	S	ATGACGTGGCAGACGGTAAGCTCTGGACTATAATTTY			
5505	P	A	S	CGCGCCGAGGTGTAAGCTCTGGACTATAATTTGY			
5505	T	C	S	GGCACAAATTATAGTCCAGAGCTTACCGTCTGGCAAGCAGATGTGATCAGCTTCCTCTTTTACTGC			
5505	T	A	S	GGCACAAATTATAGTCCAGAGCTTACAGTCTGGCAAGCAGATGTGATCAGCTTCCTCTTTTACTGC			
5505	IS	[CA]		CTTTGTGAAGATTTAAAAAGGCACTACCTCTGGAGGCACAAATTATAGTCCAGAGCTTAC[CA]GTCTGGCAAGCAGATGTGATCAGCTTCCTCTTTTACTGCCTCAC CCAGGTGCCCTGTGGA	ctg19247	7	
5507	I		A	GGTTAGGTTCCCCGTGTGAGCAACGTGAA			
5507	P	C	A	ATGACGTGGCAGACCCACTTCTAGCTGTGCY			
5507	P	T	A	CGCGCCGAGGTCACTTCTAGCTGTGCCY			
5507	T	C	A	TAAAGGCACAGCTAGAAGTGGTCACGTTGCTCACACGGGGAACCTAACCCA			
5507	T	T	A	TAAAGGCACAGCTAGAAGTGATCACGTTGCTCACACGGGGAACCTAACCCA			
5507	IS	[CT]		AGAAGTCCTCCCCACCCTCCACATTCCCAGTGGGTTAGGTTCCCCGTGTGAGCAACGTGA[CT]CACTTCTAGCTGTGCCTTTAAGATACACTGCAGATTACCATCT GCAGTTTCTGTGCTATA	ctg13010	2	
5541	I		S	GGGAAATAATCACAAACTTTTGGCAACCTGCTTAATGCTAGACT			
5541	P	G	S	CGCGCCGAGGCCTCTGTTTTCACTGGTTATY			
5541	P	C	S	ATGACGTGGCAGACGCTCTGTTTTCACTGGTTY			
5541	T	G	S	CAGAATAACCAGTGAAAACAGAGGGTCTAGCATTAAGCAGGTTGCCAAAAGTTTGTGATTATTTCCCCC			
5541	T	C	S	CAGAATAACCAGTGAAAACAGAGCGTCTAGCATTAAGCAGGTTGCCAAAAGTTTGTGATTATTTCCCCC			
5541	IS	[GC]		CCCTGTCTCCCTTGGATCTGCATCTGCATATGACACTCAGAATAACCAGTGAAAACAGAG[GC]GTCTAGCATTAAGCAGGTTGCCAAAAGTTTGTGATTATTTCCCC CCTCTGCAACTTAATT	ctg25191	18	
5554	I		A	ACAGGGACATACTTAGGACATCCCTTAGCCCTAGCT			
5554	P	A	A	CGCGCCGAGGATTAAGGAAGAGGACATCAGY			
5554	P	G	A	ATGACGTGGCAGACGTTAAGGAAGAGGACATCAGY			
5554	T	A	A	CACCCTGATGTCCTCTTCCTTAATGCTAGGGCTAAGGGATGTCCTAAGTATGTCCCTGTCA			
5554	T	G	A	CACCCTGATGTCCTCTTCCTTAACGCTAGGGCTAAGGGATGTCCTAAGTATGTCCCTGTCA			
5554	IS	[AG]		AAACCCAGACACTGTCCGACCGATGACAGGGACATACTTAGGACATCCCTTAGCCCTAGC[AG]TTAAGGAAGAGGACATCAGGGTGAGAGAACACAGTCCCATTC CCGCAGAACGGGTCAGAG	ctg3454	17	
5560	I		S	AGGGTCTCCCAAGTCCCCAGACAGTAGCA			
5560	P	G	S	ATGACGTGGCAGACCTGAGTGCACCCCAY			
5560	P	A	S	CGCGCCGAGGTTGAGTGCACCCCATY			
5560	T	G	S	GGAGATGGGGTGCACTCAGGCTACTGTCTGGGGACTTGGGAGACCCTGT			
5560	T	A	S	GGAGATGGGGTGCACTCAAGCTACTGTCTGGGGACTTGGGAGACCCTGT			
5560	IS	[GA]		TGGGTGGCTGGAGAAGGGACTGAATGCATGCCTGCTCCCAGGGGAGATGGGGTGCACTCA[GA]GCTACTGTCTGGGGACTTGGGAGACCCTGTACCTGCCTAG GAATTGGGGGCAGGTGGCCC	ctg17403	17	
5561	I		S	GGCTTCAGTGGGCTGGCAGGGAT			
5561	P	C	S	ATGACGTGGCAGACGCCTCTTCTGAGACATCY			
5561	P	G	S	CGCGCCGAGGCCCTCTTCTGAGACATCCY			
5561	T	C	S	AGGTGGATGTCTCAGAAGAGGCTCCCTGCCAGCCCACTGAAGCCAA			
5561	T	G	S	AGGTGGATGTCTCAGAAGAGGGTCCCTGCCAGCCCACTGAAGCCAA			
5561	IS	[CG]		CTTCCAGCCAACTGGATTGTGTTGACACAACCCCCTGCAAGGTGGATGTCTCAGAAGAGG[CG]TCCCTGCCAGCCCACTGAAGCCAAACCCATCAGCCCAACCAC CCGTGAGGCCGCAGCAGC	ctg17036	17	
5571	I		A	CAGCTAGCTCCTGGGCACCCACTTCAA			
5571	P	T	A	CGCGCCGAGGTGTATCCCAACACTGACCY			
5571	P	C	A	ATGACGTGGCAGACCGTATCCCAACACTGACY			
5571	T	T	A	TGGGGGTCAGTGTTGGGATACATGAAGTGGGTGCCCAGGAGCTAGCTGGC			
5571	T	C	A	TGGGGGTCAGTGTTGGGATACGTGAAGTGGGTGCCCAGGAGCTAGCTGGC			
5571	IS	[TC]		TTTTTCATCTTTCCCCACACAGCTGGCTAGGAGCCAGCTAGCTCCTGGGCACCCACTTCA[TC]GTATCCCAACACTGACCCCCAAGCCATTCGTCCGTGCCATGAC AGCAGGCCCCAACCTCT	ctg13740	5	
5586	I		S	CCCTTTCCAAGCCTGGGCAAGCAGCA			
5586	P	G	S	ATGACGTGGCAGACCTCCGTCCCCCATGY			
5586	P	A	S	CGCGCCGAGGTTCCGTCCCCCATGY			
5586	T	G	S	CCAGCATGGGGGACGGAGGCTGCTTGCCCAGGCTTGGAAAGGGCT			
5586	T	A	S	CCAGCATGGGGGACGGAAGCTGCTTGCCCAGGCTTGGAAAGGGCT			
5586	IS	[GA]		CAGGGGCTGCCCGGGCCTCCCTCGGTAGTGCCTTAGACAGACCCCAGCATGGGGGACGGA[GA]GCTGCTTGCCCAGGCTTGGAAAGGGCTCGGGGCCTGGGC CCGTGTGGTACAGGAGGGGGT	ctg832	11	
5588	I		A	GTCCTGCACACTTGCTTCGGGGGCT			
5588	P	G	A	ATGACGTGGCAGACGACTCCCCACTAGACTGY			
5588	P	A	A	CGCGCCGAGGAACTCCCCACTAGACTGY			
5588	T	G	A	CAACCAGTCTAGTGGGGAGTCGCCCCCGAAGCAAGTGTGCAGGACGG			
5588	T	A	A	CAACCAGTCTAGTGGGGAGTTGCCCCCGAAGCAAGTGTGCAGGACGG			
5588	IS	[GA]		CTGCCTGGTGAGCTCCTATGGGTCTGACGAAGCCCCGTCCTGCACACTTGCTTCGGGGGC[GA]ACTCCCCACTAGACTGGTTGCCCAGGGACGGGGGTACCCA CTCCCTCCTCAGGGCTGCAG	ctg832	11	
5599	I		S	ACAGGCCAGCCTTCCCTGCAAAGGAA			
5599	P	G	S	ATGACGTGGCAGACCGATCCAGCCCGAAY			
5599	P	A	S	CGCGCCGAGGTGATCCAGCCCGAAAY			
5599	T	G	S	GATGTTTCGGGCTGGATCGTCCTTTGCAGGGAAGGCTGGCCTGTGC			
5599	T	A	S	GATGTTTCGGGCTGGATCATCCTTTGCAGGGAAGGCTGGCCTGTGC			
5599	IS	[GA]		CAAGTGAGGTCTAGAGCTGGGTTCCTCAACTCTGGCGCTACTGATGTTTCGGGCTGGATC[GA]TCCTTTGCAGGGAAGGCTGGCCTGTGCATTATGGGATGTTTA GTGGTATCCCTGGCCTCT	ctg22fin4	22	
5608	I		S	GCCCAGACATGGAGCTGAGCCCCT			
5608	P	C	S	ATGACGTGGCAGACGTCCTCTGTACTCTGGGY			
5608	P	T	S	CGCGCCGAGGATCCTCTGTACTCTGGGY			
5608	T	C	S	CCACCCCAGAGTACAGAGGACGGGGCTCAGCTCCATGTCTGGGCCT			
5608	T	T	S	CCACCCCAGAGTACAGAGGATGGGGCTCAGCTCCATGTCTGGGCCT			
5608	IS	[CT]		CCTGTCAGTTCGCTCCTCAGGGATGCTTTGGTCCCTGTGCCCACCCCAGAGTACAGAGGA[CT]GGGGCTCAGCTCCATGTCTGGGCCTTTTACACCCCGCCTCC GCCTCCACTGCGCCTGCCC	ctg22fin3	22	
5623	I		S	TGAGTGTTCAAAGGCTTTGAGGCTTCTGAAGCCT			
5623	P	C	S	ATGACGTGGCAGACGGACCTATGAGTCAGGGY			
5623	P	G	S	CGCGCCGAGGCGACCTATGAGTCAGGGY			

FIGURE 129B

5623	T	C	S	GCAGCCGTGACTCATAGGTCCGGCTTCAGAAGCCTCAAAGCCTTTGAACACTCACC			
5623	T	G	S	GCAGCCGTGACTCATAGGTCGGGCTTCAGAAGCCTCAAAGCCTTTGAACACTCACC			
5623	IS	[CG]		AGGGCCTCGCGCTTAGGGCAGACTGAGGGCACCTCCAAGGGCAGCCGTGACTCATAGGTC[CG]GGCTTCAGAAGCCTCAAAGCCTTTGAACACTCACCCAACTG AGCTTCAGTTGATCCACTA	ctg17140	16	
5624	I		S	CGAGTCGGGAACAACGGCGCCTA			
5624	P	A	S	CGCGCCGAGGTGGAGCAGCATCCCY			
5624	P	G	S	ATGACGTGGCAGACCGGAGCAGCATCCCY			
5624	T	A	S	TGCAGGGATGCTGCTCCAAGGCGCCGTTGTTCCCGACTCGGC			
5624	T	G	S	TGCAGGGATGCTGCTCCGAGGCGCCGTTGTTCCCGACTCGGC			
5624	IS	[AG]		GGGGAACCTACTTTCTCTTCCCAACACCCATCAGGATCGTGGTTGCAGGGATGCTGCTCC[AG]AGGCGCCGTTGTTCCCGACTCGGCTCTTCCCTTTAACTTCCA GGCTGCCTATGGCCTGAG	ctg17140	16	
5635	I		S	GCTCTCTCTGCCACACCAAGCTCCCCT			
5635	P	G	S	CGCGCCGAGGCTTAGGCAGGCTGCY			
5635	P	C	S	ATGACGTGGCAGACGTTAGGCAGGCTGCY			
5635	T	G	S	AGAGGCAGCCTGCCTAAGGGGGAGCTTGGTGTGGCAGAGAGAGCTG			
5635	T	C	S	AGAGGCAGCCTGCCTAACGGGGAGCTTGGTGTGGCAGAGAGAGCTG			
5635	IS	[GC]		AGGGAGGCCAGAGGAGGAAGCAGAGGCCCGGGATAGGGATGGCAGAGGCAGCCTGCCTAA[GC]GGGGAGCTTGGTGTGGCAGAGAGAGCTGCTGTGGGTGGT GACCAGTGGAGAATGTGGACT	MULTIPLE	MULTIPLE	
5642	I		S	GAATCGGAGAAGGGGGACATCATGACATTTTGCAAA			
5642	P	G	S	ATGACGTGGCAGACCGCCTCTAGCACTGCY			
5642	P	A	S	CGCGCCGAGGTGCCTCTAGCACTGCY			
5642	T	G	S	GTTTGCAGTGCTAGAGGCGTTGCAAAATGTCATGATGTCCCCCTTCTCCGATTCCC			
5642	T	A	S	GTTTGCAGTGCTAGAGGCATTGCAAAATGTCATGATGTCCCCCTTCTCCGATTCCC			
5642	IS	[GA]		CATGGCACAGAGGAATTAATGAATAAATTACAGCTCATCTCTGTTTGCAGTGCTAGAGGC[GA]TTGCAAAATGTCATGATGTCCCCCTTCTCCGATTCCCCTTTCTG GATCTGGAGAAAAGTA	ctg15907	6	
5697	I		S	ACCTTTTGGGGCCAAGGTCAGAGTTCCAAATTAATCAAA			
5697	P	G	S	ATGACGTGGCAGACCTTAAAGCTACTGTGTTGTGTY			
5697	P	A	S	CGCGCCGAGGTTTAAAGCTACTGTGTTGTGTY			
5697	T	G	S	CCAAACACAACACAGTAGCTTTAAGTTGATTAATTTGGAACTCTGACCTTGGCCCCAAAAGGTAA			
5697	T	A	S	CCAAACACAACACAGTAGCTTTAAATTGATTAATTTGGAACTCTGACCTTGGCCCCAAAAGGTAA			
5697	IS	[GA]		CGTGGAAGCCACCTACCCCGACCTTTGGCAGAATTTCCAAACACAACACAGTAGCTTTAA[GA]TTGATTAATTTGGAACTCTGACCTTGGCCCCAAAAGGTAAGAAT ACATAACAAGGTATTT	ctg2712	15	
5735	I		A	CTCGGACGGAAAGCGGGGCCTGA			
5735	P	T	A	CGCGCCGAGGTGGGTCCTTGTGTCCY			
5735	P	C	A	ATGACGTGGCAGACCGGGTCCTTGTGTCCY			
5735	T	T	A	GCAGGGACACAAGGACCCACAGGCCCCGCTTTCCGTCCGAGCA			
5735	T	C	A	GCAGGGACACAAGGACCCGCAGGCCCCGCTTTCCGTCCGAGCA			
5735	IS	[TC]		GCTGAGGAGCCCCCGCTGGTCCCTCTGGGCATGCTGTGCTCGGACGGAAAGCGGGGCCTG[TC]GGGTCCTTGTGTCCCTGCCGCTGAAGAATGGGGCTGCTCT GAGGGAAACGCTGTCTGCTG	ctg19085	10	ECHS1
5751	I		A	CACCAGCGTCATCCACAATAAAGAGGAAAATTGAGAGCT			
5751	P	G	A	ATGACGTGGCAGACGGAGTTTGAATAGGTATGTGGY			
5751	P	A	A	CGCGCCGAGGAGAGTTTGAATAGGTATGTGGY			
5751	T	G	A	AATACCACATACCTATTCAAACTCCGCTCTCAATTTTCCTCTTTATTGTGGATGACGCTGGTGGA			
5751	T	A	A	AATACCACATACCTATTCAAACTCTGCTCTCAATTTTCCTCTTTATTGTGGATGACGCTGGTGGA			
5751	IS	[GA]		TTGGTATAGCCGAGGCCGTTTCCACCAGCGTCATCCACAATAAAGAGGAAAATTGAGAGC[GA]GAGTTTGAATAGGTATGTGGTATTTGGTTCAGAATGGGTTTTA AATGAAAGTGGAGAGGG	ctg53	14	
5811	I		A	CCTTACGAAATGGGTAGATTGTTTCCTTAATAATCCCAACTAA			
5811	P	T	A	CGCGCCGAGGTCATTTGTAAAGTGCTTACTAAG			
5811	P	C	A	ATGACGTGGCAGACCCATTTGTAAAGTGCTTACTAAG			
5811	T	T	A	AGCACTTAGTAAGCACTTTACAAATGATAGTTGGGATTATTAAGGAAACAATCTACCCATTTCGTAAGGAG			
5811	T	C	A	AGCACTTAGTAAGCACTTTACAAATGGTAGTTGGGATTATTAAGGAAACAATCTACCCATTTCGTAAGGAG			
5811	IS	[TC]		TCTGGGCTTACTTTTTCTCCTTACGAAATGGGTAGATTGTTTCCTTAATAATCCCAACTA[TC]CATTTGTAAAGTGCTTACTAAGTGCTGGGCCTCACGTAGGGACT TTAAATATAGCATTTT	ctg12325	11	
5831	I		A	GCATCTAAAGATTAGATCCTGAGAGGCAGGAGGTATAGTTCAAACT			
5831	P	G	A	ATGACGTGGCAGACGAAAGAAGACAAGTTACTGC			
5831	P	C	A	CGCGCCGAGGCAAAGAAGACAAGTTACTGC			
5831	T	G	A	ATGGGCAGTAACTTGTCTTCTTTCGTTTGAACTATACCTCCTGCCTCTCAGGATCTAATCTTTAGATGCCA			
5831	T	C	A	ATGGGCAGTAACTTGTCTTCTTTGGTTTGAACTATACCTCCTGCCTCTCAGGATCTAATCTTTAGATGCCA			
5831	IS	[GC]		GGTGGGAGTGGGCTGGCATCTAAAGATTAGATCCTGAGAGGCAGGAGGTATAGTTCAAAC[GC]AAAGAAGACAAGTTACTGCCCATTTCTATAGGATTACACTGTA GAGTACCTGAACTTGCA	ctg13980	1	
5845	I		A	ACTGTAGGAATTTTGAAAGTGCAAAAGGCCAACCCAAAATTCC			
5845	P	A	A	CGCGCCGAGGAACCAACAAAGGTAACCTAC			
5845	P	T	A	ATGACGTGGCAGACTACCAACAAAGGTAACCTAC			
5845	T	A	A	ACCAGTAGGTTACCTTTGTTGGTTGAATTTTGGGTTGGCCTTTTGCACTTTCAAAATTCCTACAGTGA			
5845	T	T	A	ACCAGTAGGTTACCTTTGTTGGTAGAATTTTGGGTTGGCCTTTTGCACTTTCAAAATTCCTACAGTGA			
5845	IS	[AT]		TGAAAGCTATACATACTCACTGTAGGAATTTTGAAAGTGCAAAAGGCCAACCCAAAATTC[AT]ACCAACAAAGGTAACCTACTGGTATTTGGGTATATTTTTTCTCTG GGCCTTGTCCTCCGC	ctg14391	11	
5850	I		S	GGAGTGATGTGGGTAAAGTGAAACTGTTCTTCTTACCCTCTTTAT			
5850	P	T	S	CGCGCCGAGGATACATCTGTTCTAGGATTTTATAAC			
5850	P	C	S	ATGACGTGGCAGACGTACATCTGTTCTAGGATTTTATAAC			
5850	T	T	S	TCAGGTTATAAAATCCTAGAACAGATGTATTAAAGAGGGTAAGAAGAACAGTTTCACTTTACCCACATCACTCCTC			
5850	T	C	S	TCAGGTTATAAAATCCTAGAACAGATGTACTAAAGAGGGTAAGAAGAACAGTTTCACTTTACCCACATCACTCCTC			
5850	IS	[TC]		AGGAGTCCAGCAGAGAAGTTCCAGCACGCTGTCAGGTTATAAAATCCTAGAACAGATGTA[TC]TAAAGAGGGTAAGAAGAACAGTTTCACTTTACCCACATCACTC CTCCCCCAAGGTGGCAC	ctg15907	6	
5884	I		A	CATCCCTTTGCTTGTGGCAGGAGATGGCTTAAATAAATAACTTAAAA			
5884	P	C	A	ATGACGTGGCAGACCTTAGATTGGTCATGAGCTG			
5884	P	T	A	CGCGCCGAGGTTTAGATTGGTCATGAGCTG			
5884	T	C	A	CTCTCAGCTCATGACCAATCTAAGTTTAAGTTATTTATTTAAGCCATCTCCTGCCACAAGCAAAGGGATGGG			
5884	T	T	A	CTCTCAGCTCATGACCAATCTAAATTTAAGTTATTTATTTAAGCCATCTCCTGCCACAAGCAAAGGGATGGG			
5884	IS	[CT]		GTATACTGGTCTCCCATCCCTTTGCTTGTGGCAGGAGATGGCTTAAATAAATAACTTAAA[CT]TTAGATTGGTCATGAGCTGAGAGTTACTTTCTTTGGTTGTGTTTT TTCGCAGAAATTAGC	ctg15140	12	
5922	I		A	CAATGAGGGCTGAAGCTTCGGCCTGTGT			
5922	P	A	A	CGCGCCGAGGACCAAGACACCATGGGY			
5922	P	G	A	ATGACGTGGCAGACGCCAAGACACCATGGY			
5922	T	A	A	ACTGCCCATGGTGTCTTGGTCACAGGCCGAAGCTTCAGCCCTCATTGGC			
5922	T	G	A	ACTGCCCATGGTGTCTTGGCCACAGGCCGAAGCTTCAGCCCTCATTGGC			
5922	IS	[AG]		TCCCAGGGACCCCCGGCCAGGACTCAAGCCGGCCAATGAGGGCTGAAGCTTCGGCCTGTG[AG]CCAAGACACCATGGGCAGTGGAATGAGCAACGTGCAGTTTT GCACCCAGAAACTGGTCAG	ctg15330	9	
5937	I		S	CTGTCCTTCACCTACTGGTTCACATCTGACCCTGTAATAAAT			
5937	P	C	S	ATGACGTGGCAGACGTAACTCTTTGGAGTCTTCAG			
5937	P	T	S	CGCGCCGAGGATAACTCTTTGGAGTCTTCAG			
5937	T	C	S	CCCTCTGAAGACTCCAAAGAGTTACTTTATTACAGGGTCAGATGTGAACCAGTAGGTGAAGGACAGTC			
5937	T	T	S	CCCTCTGAAGACTCCAAAGAGTTATTTTATTACAGGGTCAGATGTGAACCAGTAGGTGAAGGACAGTC			
5937	IS	[CT]		TCTTCCTTCACTTGCTTAGGTGATTGGATTTGTTTTCCCTCTGAAGACTCCAAAGAGTTA[CT]TTTATTACAGGGTCAGATGTGAACCAGTAGGTGAAGGACAGTCT TGCAAATCTCACCGCA	ctg30	7	
6004	I		A	AGGGGTGGTCCAGGCTGTACTTTAGGCTT			
6004	P	G	A	ATGACGTGGCAGACGCATGAAAGTCTCCTGG			
6004	P	A	A	CGCGCCGAGGACATGAAAGTCTCCTGGA			
6004	T	G	A	CATCTCCAGGAGACTTTCATGCAGCCTAAAGTACAGCCTGGACCACCCCTGG			

FIGURE 129B

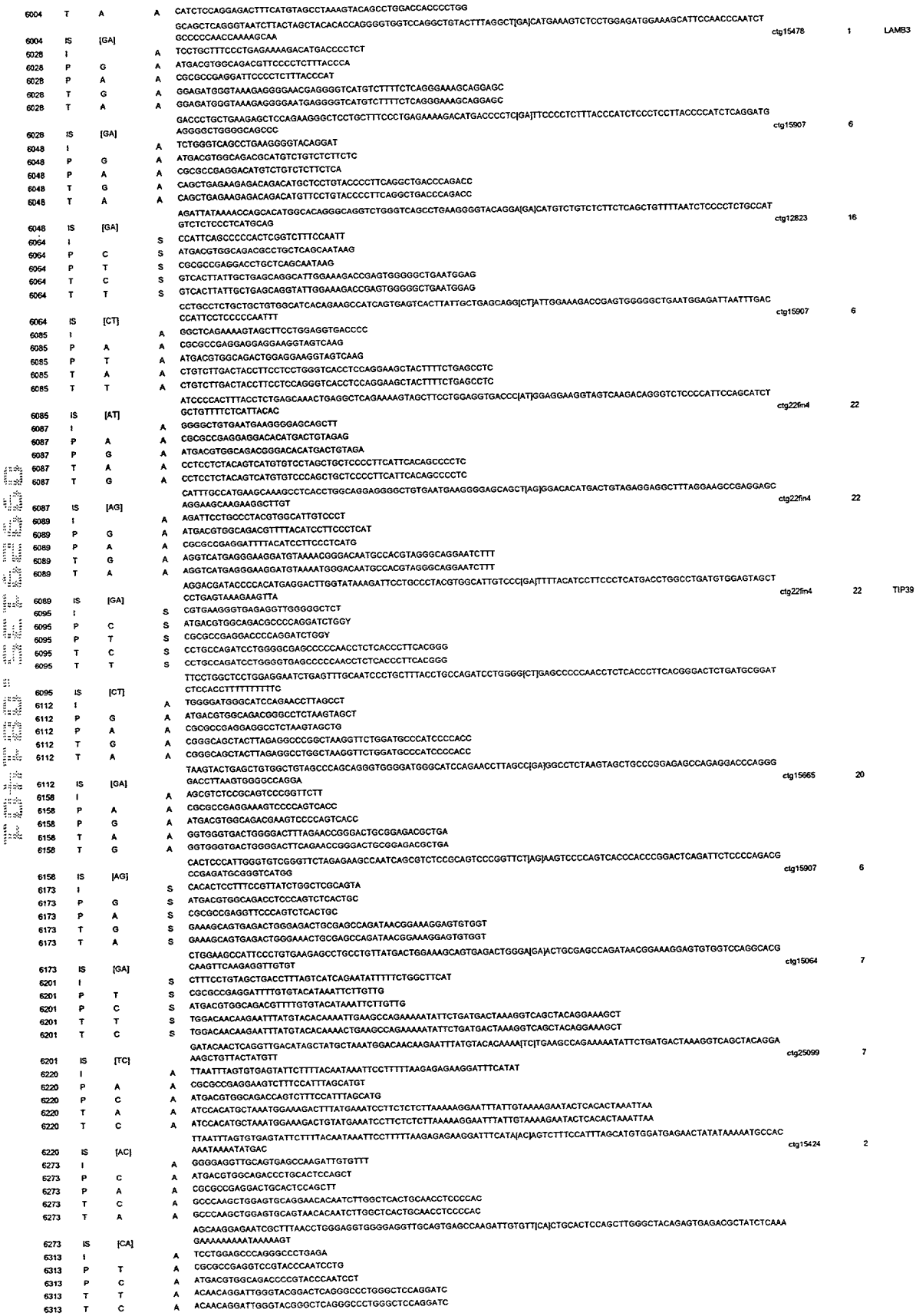


FIGURE 129B

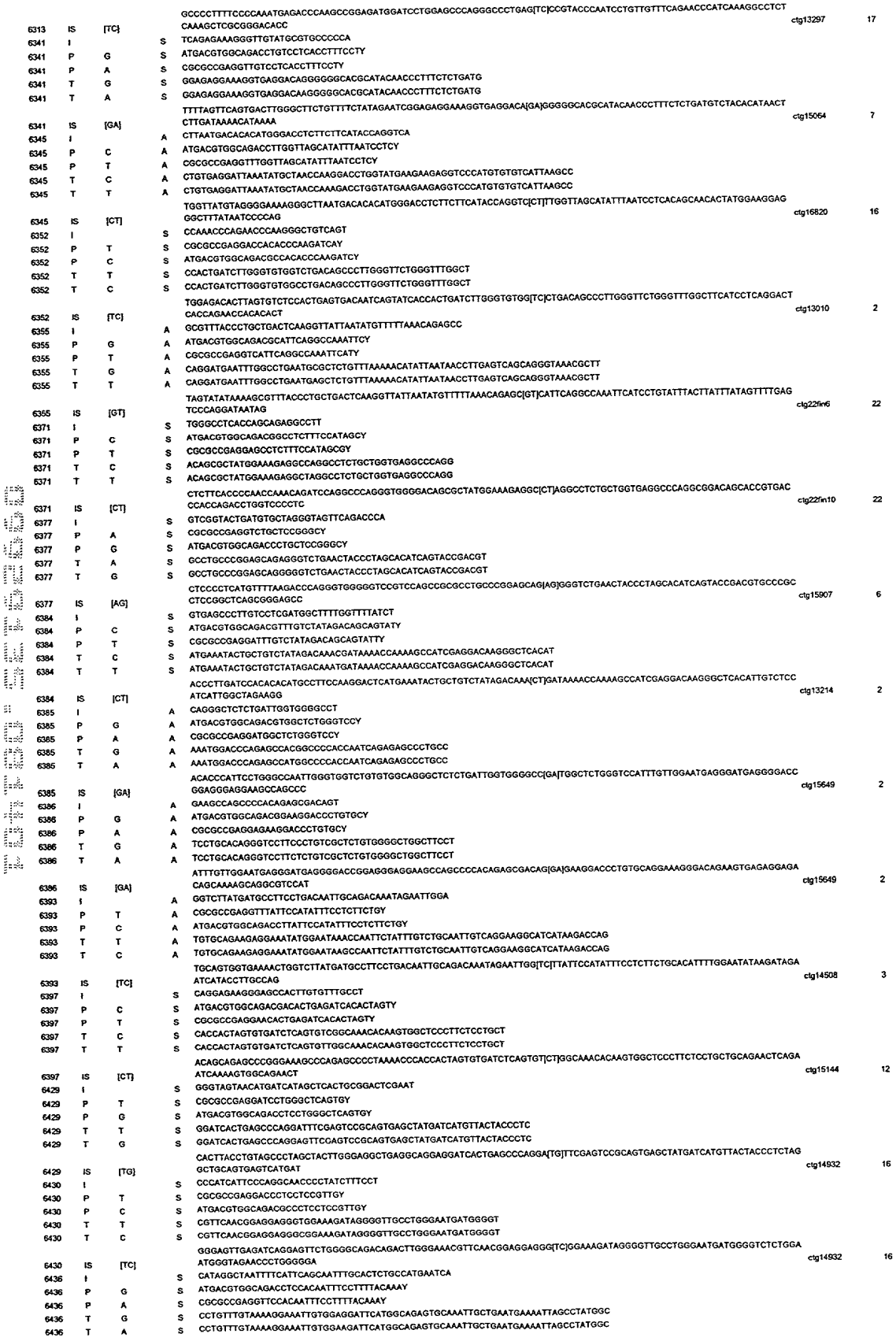

GCCCCTTTTCCCCAAATGAGACCCAAGCCGGAGATGGATCCTGGAGCCCAGGGCCCTGAG[TC]CCGTACCCAATCCTGTTGTTTCAGAACCCATCAAAGGCCTCT
6313 IS [TC] CAAAGCTCGCGGGACACC ctg13297 17
6341 I S TCAGAGAAAGGGTTGTATGCGTGCCCCCA
6341 P G S ATGACGTGGCAGACCTGTCCTCACCTTTCCTY
6341 P A S CGCGCCGAGGTTGTCCTCACCTTTCCTY
6341 P G S GGAGAGGAAAGGTGAGGACAGGGGGGCACGCATACAACCCTTTCTCTGATG
6341 T G S GGAGAGGAAAGGTGAGGACAAGGGGGCACGCATACAACCCTTTCTCTGATG
6341 T A S TTTTAGTTCAGTGACTTGGGCTTCTGTTTTCTATAGAATCGGAGAGGAAAGGTGAGGACA[GA]GGGGGCACGCATACAACCCTTTCTCTGATGTCTACACATAACT
6341 IS [GA] CTTGATAAAACATAAAA ctg15064 7
6345 I A CTTAATGACACACATGGGACCTCTTCTTCATACCAGGTCA
6345 P C A ATGACGTGGCAGACCTTGGTTAGCATATTTAATCCTCY
6345 P T A CGCGCCGAGGTTTGGTTAGCATATTTAATCCTCY
6345 T C A CTGTGAGGATTAAATATGCTAACCAAGGACCTGGTATGAAGAAGAGGTCCCATGTGTGTCATTAAGCC
6345 T T A CTGTGAGGATTAAATATGCTAACCAAAGACCTGGTATGAAGAAGAGGTCCCATGTGTGTCATTAAGCC
6345 IS [CT] TGGTTATGTAGGGGAAAAGGGCTTAATGACACACATGGGACCTCTTCTTCATACCAGGTC[CT]TTGGTTAGCATATTTAATCCTCACAGCAACACTATGGAAGGAG GGCTTTATAATCCCCAG ctg16820 16
6352 I S CCAAACCCAGAACCCAAGGGCTGTCAGT
6352 P T S CGCGCCGAGGACCACACCCAAGATCAY
6352 P C S ATGACGTGGCAGACGCCACACCCAAGATCY
6352 T T S CCACTGATCTTGGGTGTGGTCTGACAGCCCTTGGGTTCTGGGTTTGGCT
6352 T C S CCACTGATCTTGGGTGTGGCCTGACAGCCCTTGGGTTCTGGGTTTGGCT
6352 IS [TC] TGGAGACACTTAGTGTCTCCACTGAGTGACAATCAGTATCACCACTGATCTTGGGTGTGG[TC]CTGACAGCCCTTGGGTTCTGGGTTTGGCTTCATCCTCAGGACT CACCAGAACCACACACT ctg13010 2
6355 I A GCGTTTACCCTGCTGACTCAAGGTTATTAATATGTTTTTAAACAGAGCC
6355 P G A ATGACGTGGCAGACGCATTCAGGCCAAATTCY
6355 P T A CGCGCCGAGGTCATTCAGGCCAAATTCATY
6355 T G A CAGGATGAATTTGGCCTGAATGCGCTCTGTTTAAAAACATATTAATAACCTTGAGTCAGCAGGGTAAACGCTT
6355 T T A CAGGATGAATTTGGCCTGAATGAGCTCTGTTTAAAAACATATTAATAACCTTGAGTCAGCAGGGTAAACGCTT
6355 IS [GT] TAGTATATAAAAGCGTTTACCCTGCTGACTCAAGGTTATTAATATGTTTTTAAACAGAGC[GT]CATTCAGGCCAAATTCATCCTGTATTTACTTATTTATAGTTTTGAG TCCCAGGATAATAG ctg22fin6 22
6371 I S TGGGCCTCACCAGCAGAGGCCTT
6371 P C S ATGACGTGGCAGACGGCCTCTTTCCATAGCY
6371 P T S CGCGCCGAGGAGCCTCTTTCCATAGCGY
6371 T C S ACAGCGCTATGGAAAGAGGCCAGGCCTCTGCTGGTGAGGCCCAGG
6371 T T S ACAGCGCTATGGAAAGAGGCTAGGCCTCTGCTGGTGAGGCCCAGG
6371 IS [CT] CTCTTCACCCCAACCAAACAGATCCAGGCCCAGGGTGGGGACAGCGCTATGGAAAGAGGC[CT]AGGCCTCTGCTGGTGAGGCCCAGGCGGACAGCACCGTGAC CCACCAGACCTGGTCCCCTC ctg22fin10 22
6377 I S GTCGGTACTGATGTGCTAGGGTAGTTCAGACCCA
6377 P A S CGCGCCGAGGTCTGCTCCGGGCY
6377 P G S ATGACGTGGCAGACCCTGCTCCGGGCY
6377 T A S GCCTGCCCGGAGCAGAGGGTCTGAACTACCCTAGCACATCAGTACCGACGT
6377 T G S GCCTGCCCGGAGCAGGGGGTCTGAACTACCCTAGCACATCAGTACCGACGT
6377 IS [AG] CTCCCCTCATGTTTTAAGACCCAGGGTGGGGGTCCGTCCAGCCGCGCCTGCCCGGAGCAG[AG]GGGTCTGAACTACCCTAGCACATCAGTACCGACGTGCCCGC CTCCGGCTCAGCGGGAGCC ctg15907 6
6384 I S GTGAGCCCTTGTCCTCGATGGCTTTTGGTTTTATCT
6384 P C S ATGACGTGGCAGACGTTTGTCTATAGACAGCAGTATY
6384 P T S CGCGCCGAGGATTTGTCTATAGACAGCAGTATTY
6384 T C S ATGAAATACTGCTGTCTATAGACAAACGATAAAACCAAAAGCCATCGAGGACAAGGGCTCACAT
6384 T T S ATGAAATACTGCTGTCTATAGACAAATGATAAAACCAAAAGCCATCGAGGACAAGGGCTCACAT
6384 IS [CT] ACCCTTGATCCACACACATGCCTTCCAAGGACTCATGAAATACTGCTGTCTATAGACAAA[CT]GATAAAACCAAAAGCCATCGAGGACAAGGGCTCACATTGTCTCC ATCATTGGCTAGAAGG ctg13214 2
6385 I A CAGGGCTCTCTGATTGGTGGGGCCT
6385 P G A ATGACGTGGCAGACGTGGCTCTGGGTCCY
6385 P A A CGCGCCGAGGATGGCTCTGGGTCCY
6385 T G A AAATGGACCCAGAGCCACGGCCCCACCAATCAGAGAGCCCTGCC
6385 T A A AAATGGACCCAGAGCCATGGCCCCACCAATCAGAGAGCCCTGCC
6385 IS [GA] ACACCCATTCCTGGGCCAATTGGGTGGTCTGTGTGGCAGGGCTCTCTGATTGGTGGGGCC[GA]TGGCTCTGGGTCCATTTGTTGGAATGAGGGATGAGGGGACCC GGAGGGAGGAAGCCAGCCC ctg15649 2
6386 I A GAAGCCAGCCCCACAGAGCGACAGT
6386 P G A ATGACGTGGCAGACGGAAGGACCCTGTGCY
6386 P A A CGCGCCGAGGAGAAGGACCCTGTGCY
6386 T G A TCCTGCACAGGGTCCTTCCCTGTCGCTCTGTGGGGCTGGCTTCCT
6386 T A A TCCTGCACAGGGTCCTTCTCTGTCGCTCTGTGGGGCTGGCTTCCT
6386 IS [GA] ATTTGTTGGAATGAGGGATGAGGGGACCGGAGGGAGGAAGCCAGCCCCACAGAGCGACAG[GA]GAAGGACCCTGTGCAGGAAAGGGACAGAAGTGAGAGGAGA CAGCAAAAGCAGGCGTCCAT ctg15649 2
6393 I A GGTCTTATGATGCCTTCCTGACAATTGCAGACAAATAGAATTGGA
6393 P T A CGCGCCGAGGTTTATTCCATATTTCCTCTTCTGY
6393 P C A ATGACGTGGCAGACCTTATTCCATATTTCCTCTTCTGY
6393 T T A TGTGCAGAAGAGGAAATATGGAATAAACCAATTCTATTTGTCTGCAATTGTCAGGAAGGCATCATAAGACCAG
6393 T C A TGTGCAGAAGAGGAAATATGGAATAAGCCAATTCTATTTGTCTGCAATTGTCAGGAAGGCATCATAAGACCAG
6393 IS [TC] TGCAGTGGTGAAAACTGGTCTTATGATGCCTTCCTGACAATTGCAGACAAATAGAATTGG[TC]TTATTCCATATTTCCTCTTCTGCACATTTTGGAATATAAGATAGA ATCATACCTTGCCAG ctg14508 3
6397 I S CAGGAGAAGGGAGCCACTTGTGTTTGCCT
6397 P C S ATGACGTGGCAGACGACACTGAGATCACACTAGTY
6397 P T S CGCGCCGAGGAACACTGAGATCACACTAGTY
6397 T C S CACCACTAGTGTGATCTCAGTGTCGGCAAACACAAGTGGCTCCCTTCTCCTGCT
6397 T T S CACCACTAGTGTGATCTCAGTGTTGGCAAACACAAGTGGCTCCCTTCTCCTGCT
6397 IS [CT] ACAGCAGAGCCCGGGAAAGCCCAGAGCCCCTAAAACCCACCACTAGTGTGATCTCAGTGT[CT]GGCAAACACAAGTGGCTCCCTTCTCCTGCTGCAGAACTCAGA ATCAAAAGTGGCAGAACT ctg15144 12
6429 I S GGGTAGTAACATGATCATAGCTCACTGCGGACTCGAAT
6429 P T S CGCGCCGAGGATCCTGGGCTCAGTGY
6429 P G S ATGACGTGGCAGACCTCCTGGGCTCAGTGY
6429 T T S GGATCACTGAGCCCAGGAGTTTCGAGTCCGCAGTGAGCTATGATCATGTTACTACCCTC
6429 T G S GGATCACTGAGCCCAGGAGTTCGAGTCCGCAGTGAGCTATGATCATGTTACTACCCTC
6429 IS [TG] CACTTACCTGTAGCCCTAGCTACTTGGGAGGCTGAGGCAGGAGGATCACTGAGCCCAGGA[TG]TTCGAGTCCGCAGTGAGCTATGATCATGTTACTACCCTCTAG GCTGCAGTGAGTCATGAT ctg14932 16
6430 I S CCCATCATTCCCAGGCAACCCCTATCTTTCCT
6430 P T S CGCGCCGAGGACCCTCCTCCGTTGY
6430 P C S ATGACGTGGCAGACGCCCTCCTCCGTTGY
6430 T T S CGTTCAACGGAGGAGGGTGGAAAGATAGGGGTTGCCTGGGAATGATGGGGT
6430 T C S CGTTCAACGGAGGAGGGCGGAAAGATAGGGGTTGCCTGGGAATGATGGGGT
6430 IS [TC] GGGAGTTGAGATCAGGAGTTCTGGGGCAGACAGACTTGGGAAACGTTCAACGGAGGAGGG[TC]GGAAAGATAGGGGTTGCCTGGGAATGATGGGGTCTCTGGA ATGGGTAGAACCCTGGGGGA ctg14932 16
6436 I S CATAGGCTAATTTTCATTCAGCAATTTGCACTCTGCCATGAATCA
6436 P G S ATGACGTGGCAGACCTCCACAATTTCCTTTTACAAAY
6436 P A S CGCGCCGAGGTTCCACAATTTCCTTTTACAAAY
6436 T G S CCTGTTTGTAAAAGGAAATTGTGGAGGATTCATGGCAGAGTGCAAATTGCTGAATGAAAATTAGCCTATGGC
6436 T A S CCTGTTTGTAAAAGGAAATTGTGGAAGATTCATGGCAGAGTGCAAATTGCTGAATGAAAATTAGCCTATGGC

FIGURE 129B

				TATGAATGACTGATACCAGTAAACAATTGAAGTCACCTGTTTGTAAAAGGAAATTGTGGA[GA]GATTCATGGCAGAGTGCAAATTGCTGAATGAAAATTAGCCTATG		
6436	IS	[GA]		GCCCATTTATCAAAAC	ctg15064	7
6470	I		S	GTTCCTTATGATTGTGTGTTTACTTCAGAGGTCTACGTCAAACCTC		
6470	P	T	S	CGCGCCGAGGAAGAATTAGGAGAGAAAAGCAAY		
6470	P	A	S	ATGACGTGGCAGACTAGAATTAGGAGAGAAAAGCAATAY		
6470	T	T	S	CAATTATTGCTTTTCTCTCCTAATTCTTAGGTTTGACGTAGACCTCTGAAGTAAACACACAATCATAAGGAACCA		
6470	T	A	S	CAATTATTGCTTTTCTCTCCTAATTCTAAGGTTTGACGTAGACCTCTGAAGTAAACACACAATCATAAGGAACCA		
				CTTTTTAAGTACCTTTTAAATAGTTTTTCATAACAATTATTGCTTTTCTCTCCTAATTCTJTA]AGGTTTGACGTAGACCTCTGAAGTAAACACACAATCATAAGGAACC		
6470	IS	[TA]		AGAAATAGCAATAT	ctg15064	7
6476	I		A	GTCCAGGGCACAGAGCAGCAGAGACAT		
6476	P	C	A	CGCGCCGAGGCACAAACAGGATTAGAGCGY		
6476	P	G	A	ATGACGTGGCAGACGACAAACAGGATTAGAGCGY		
6476	T	C	A	TTAGCGCTCTAATCCTGTTTGTGTGTCTCTGCTGCTCTGTGCCCTGGACCC		
6476	T	G	A	TTAGCGCTCTAATCCTGTTTGTCTGTCTCTGCTGCTCTGTGCCCTGGACCC		
				CTGATCCCTAATGAATGACATTCTAATGAATGGGGTCCAGGGCACAGAGCAGCAGAGACA[CG]ACAAACAGGATTAGAGCGCTAATTGGCAAATGTGGTGGGATT		
6476	IS	[CG]		CCCTGTTGGGAAGGACAG	ctg15684	5
6501	I		S	AAAGCATCTCTGGTATCCCATCTGGGAGTTC		
6501	P	C	S	ATGACGTGGCAGACGTAGATCCATAGAATGCCAG		
6501	P	A	S	CGCGCCGAGGTTAGATCCATAGAATGCCAG		
6501	T	C	S	AATCCTGGCATTCTATGGATCTACAACTCCCAGATGGGATACCAGAGATGCTTTTA		
6501	T	A	S	AATCCTGGCATTCTATGGATCTAAAACTCCCAGATGGGATACCAGAGATGCTTTTA		
				CCAGCTTTCAGAAATAAGCGTTGGAGGAGTTGGACTCAATCCTGGCATTCTATGGATCTA[CA]AACTCCCAGATGGGATACCAGAGATGCTTTTAAGTGATACAGG		
6501	IS	[CA]		AGCCCAACACAGAAAAA	ctg15174	19
6516	I		S	TCCACTCAGCACAGAGAAGGGGGCCA		
6516	P	A	S	CGCGCCGAGGTAGCAAAAGATCCTGTCAG		
6516	P	G	S	ATGACGTGGCAGACCAGCAAAAGATCCTGTCA		
6516	T	A	S	CCAGCTGACAGGATCTTTTGCTAGGCCCCCTTCTCTGTGCTGAGTGGAGG		
6516	T	G	S	CCAGCTGACAGGATCTTTTGCTGGGCCCCCTTCTCTGTGCTGAGTGGAGG		
				GGGCCCCAGTTTATGTGCTCACCAGTCACTTAGCTCTGCCAGCTGACAGGATCTTTTGCT[AG]GGCCCCCTTCTCTGTGCTGAGTGGAGGTAGCCTCTCAGCATA		
6516	IS	[AG]		TCTGCTGGGTAAGACATA	ctg17263	16
6519	I		S	CTTCATTTTCCTGATGGGAGGGGTATCCTGTGATGTT		
6519	P	C	S	ATGACGTGGCAGACGGCTGTCCTGTGTCC		
6519	P	G	S	CGCGCCGAGGCGCTGTCCTGTGTCC		
6519	T	C	S	GGGAGGACACAGGACAGCCACATCACAGGATACCCCTCCCATCAGGAAAATGAAGGC		
6519	T	G	S	GGGAGGACACAGGACAGCGACATCACAGGATACCCCTCCCATCAGGAAAATGAAGGC		
				GTCCAGGGTCTGTGGGGCACTAGACCTAAGGAAGGCTTCCTGGGGAGGACACAGGACAGC[CG]ACATCACAGGATACCCCTCCCATCAGGAAAATGAAGGCCCA		
6519	IS	[CG]		GAACTCACTCGGCTCTTCC	ctg18037	7
6523	I		S	CAATCCCCACACAAAAAGCAAGCTTGAAGACACTACAA		
6523	P	G	S	ATGACGTGGCAGACCCGTCAAATCTCTTCCAAT		
6523	P	A	S	CGCGCCGAGGTCGTCAAATCTCTTCCAATC		
6523	T	G	S	CAGTGATTGGAAGAGATTTGACGGTGTAGTGTCTTCAAGCTTGCTTTTTGTGTGGGGATTGGG		
6523	T	A	S	CAGTGATTGGAAGAGATTTGACGATGTAGTGTCTTCAAGCTTGCTTTTTGTGTGGGGATTGGG		
				TTTCCCGAAGGCTTGCGCCATTTTGATATTCACGTCACAGTGATTGGAAGAGATTTGACG[GA]TGTAGTGTCTTCAAGCTTGCTTTTTGTGTGGGGATTGGGGAGC		
6523	IS	[GA]		TGTCGGGGCGGCTGCCA	ctg15128	17
6526	I		S	CCAAGGACTCAAAGATTCTTTCAGGAAAAAGGGTGCCTC		
6526	P	C	S	ATGACGTGGCAGACGCCTGGAGACTCAGG		
6526	P	A	S	CGCGCCGAGGTCCTGGAGACTCAGGT		
6526	T	C	S	TTCCACCTGAGTCTCCAGGCAGGCACCCTTTTTCCTGAAAGAATCTTTGAGTCCTTGGCC		
6526	T	A	S	TTCCACCTGAGTCTCCAGGAAGGCACCCTTTTTCCTGAAAGAATCTTTGAGTCCTTGGCC		
				TATTCATCCCGCTACACAAGTCAGGGGCCTCTTAACCTCAGTTCCACCTGAGTCTCCAGG[CA]AGGCACCCTTTTTCCTGAAAGAATCTTTGAGTCCTTGGCCCAG		
6526	IS	[CA]		GTGGAGGCAGGGCAGAG	ctg14007	17
6528	I		A	GGGGGGAGGGGAGGGGTTCGTACT		
6528	P	G	A	ATGACGTGGCAGACGGGAGCAATAAAGGAGAAA		
6528	P	A	A	CGCGCCGAGGAGGAGCAATAAAGGAGAAAC		
6528	T	G	A	CTCAGTTTCTCCTTTATTGCTCCCGTACGAACCCCTCCCCTCCCCCCTG		
6528	T	A	A	CTCAGTTTCTCCTTTATTGCTCCTGTACGAACCCCTCCCCTCCCCCCTG		
				CCTTCTCTGCCAGCGATCTCGCAGCACTGTGTTTACAGGGGGGAGGGGAGGGGTTCGTAC[GA]GGAGCAATAAAGGAGAAACTGAGGTACCCGGCTGGCATCG		
6528	IS	[GA]		GTCCTGCCCCATCACTGGCT		
6529	I		S	TGAGGCCACCTCGGGTCAGCCTA		
6529	P	A	S	CGCGCCGAGGTGCCTCTCACAGTAGC		
6529	P	G	S	ATGACGTGGCAGACCGCCTCTCACAGTAGC		
6529	T	A	S	GGGGGCTACTGTGAGAGGCAAGGCTGACCCGAGGTGGCCTCAGG		
6529	T	G	S	GGGGGCTACTGTGAGAGGCGAGGCTGACCCGAGGTGGCCTCAGG		
				AACAGTGTGAGTTCAGCAGGCCGCTGTGCAGCGGGCAGGGCGGGGGCTACTGTGAGAGGC[AG]AGGCTGACCCGAGGTGGCCTCAGGAGCCCAGCCTTACCT		
6529	IS	[AG]		CACAGAACTCCTGGGTCAGCT	ctg15907	6
6542	I		S	TCAATGGTCACGTAGACGGCAAATGTGCACAT		
6542	P	C	S	ATGACGTGGCAGACGGGCCACCTGCAA		
6542	P	T	S	CGCGCCGAGGAGGCCACCTGCAAG		
6542	T	C	S	TCTGCTTGCAGGTGGCCCTGTGCACATTTGCCGTCTACGTGACCATTGACG		
6542	T	T	S	TCTGCTTGCAGGTGGCCTTGTGCACATTTGCCGTCTACGTGACCATTGACG		
				GATGATGACTCTCACTCAGGGCACAGCAGTCAGCACTGGGCGTTCTGCTTGCAGGTGGCC[CT]TGTGCACATTTGCCGTCTACGTGACCATTGACGAGAACAACA		
6542	IS	[CT]		TCCTGGATGCCCAGACAG	ctg14946	16
6581	I		A	ATCATGAGTACCTAAGATATCCGGTACTATCTAATAACTTCTGGATTACT		
6581	P	G	A	ATGACGTGGCAGACGTAGGGGCACAACCT		
6581	P	A	A	CGCGCCGAGGATAGGGGCACAACCTAG		
6581	T	G	A	CATCCTAGGTTGTGCCCCTACGTAATCCAGAAGTTATTAGATAGTACCGGATATCTTAGGTACTCATGATTC		
6581	T	A	A	CATCCTAGGTTGTGCCCCTATGTAATCCAGAAGTTATTAGATAGTACCGGATATCTTAGGTACTCATGATTC		
				GTCTGTCAAGAATCATGAGTACCTAAGATATCCGGTACTATCTAATAACTTCTGGATTAC[GA]TAGGGGCACAACCTAGGATGAGCTACCCCCAAATTTAAGGCTTC		
6581	IS	[GA]		TGAGCTTGTGTGAGTT	ctg15064	7
6595	I		A	GCTCCCCTACCCGACACCCGTCAT		
6595	P	A	A	CGCGCCGAGGACCCGGTCTAGATTCC		
6595	P	C	A	ATGACGTGGCAGACCCCCGGTCTAGATTCC		
6595	T	A	A	GAATGGAATCTAGACCGGGTTGACGGGTGTCGGGTAGGGGAGCTG		
6595	T	C	A	GAATGGAATCTAGACCGGGGTGACGGGTGTCGGGTAGGGGAGCTG		
				CAGGCTCATGCCTGGACTTGGCCTTGGCTGCCCTCCAGCTCCCCTACCCGACACCCGTCA[AC]CCCGGTCTAGATTCCATTCCAGAGAATGAGCATTCAGCTGTT		
6595	IS	[AC]		CTCCCAACCCACCCTCCA	ctg15944	11
6627	I		S	CTGCGTATGCACATCAAATAAATTCCAAACGCAGCCT		
6627	P	C	S	ATGACGTGGCAGACGTCTATTCCCAAGGTATCTTAAC		
6627	P	T	S	CGCGCCGAGGATCTATTCCCAAGGTATCTTAAC		
6627	T	C	S	TGGAGTTAAGATACCTTGGGAATAGACGGCTGCGTTTGGAATTTATTTGATGTGCATACGCAGTC		
6627	T	T	S	TGGAGTTAAGATACCTTGGGAATAGATGGCTGCGTTTGGAATTTATTTGATGTGCATACGCAGTC		
				CGTAATCATTGACAGACAGCAGTGAGATATCTGGTGGAGTTAAGATACCTTGGGAATAGA[CT]GGCTGCGTTTGGAATTTATTTGATGTGCATACGCAGTCTGTCA		
6627	IS	[CT]		TCTTTCCAGCCAATCCC	ctg13023	2
6628	I		A	GGGAATAGACGGCTGCGTTTGGAATTTATTTGATGTGCATAA		
6628	P	C	A	ATGACGTGGCAGACCGCAGTCTGTCATCTTTC		
6628	P	T	A	CGCGCCGAGGTGCAGTCTGTCATCTTTC		
6628	T	C	A	GCTGGAAAGATGACAGACTGCGTATGCACATCAAATAAATTCCAAACGCAGCCGTCTATTCCCAA		
6628	T	T	A	GCTGGAAAGATGACAGACTGCATATGCACATCAAATAAATTCCAAACGCAGCCGTCTATTCCCAA		

FIGURE 129B

				GGTGGAGTTAAGATACCTTGGGAATAGACGGCTGCGTTTGGAATTTATTTGATGTGCATA[CT]GCAGTCTGTCATCTTTCCAGCCAATCCCATATTGCTGTCTTGC		
6628	IS	[CT]		CTCTTCATTATCTCCCC	ctg13023	2
6639	I		S	CGAAAATGACCTTCCTTTCACCATCCAAGGCCTATC		
6639	P	A	S	*CGCGCCGAGGTCTCCTGTGCAGGACY*		
6639	P	C	S	ATGACGTGGCAGACGCTCCTGTGCAGGAY		
6639	T	A	S	CGTTGTCCTGCACAGGAGAATAGGCCTTGGATGGTGAAAGGAAGGTCATTTTCGCA		
6639	T	C	S	CGTTGTCCTGCACAGGAGCATAGGCCTTGGATGGTGAAAGGAAGGTCATTTTCGCA		
				ACCGGATCCCACAAACTGGTAAGAAGAGAAGGCTTCATGTGGACGTTGTCCTGCACAGGAG[AC]ATAGGCCTTGGATGGTGAAAGGAAGGTCATTTTCGCAGCACT		
6639	IS	[AC]		TAGAGCAGCATCTTGAGT	ctg22fin4	22
6640	I		A	GGAGAATAGGCCTTGGATGGTGAAAGGAAGGTCATTTTA		
6640	P	C	A	ATGACGTGGCAGACCGCAGCACTTAGAGCY		
6640	P	T	A	CGCGCCGAGGTGCAGCACTTAGAGCAY		
6640	T	C	A	ATGCTGCTCTAAGTGCTGCGAAAATGACCTTCCTTTCACCATCCAAGGCCTATTCTCCTG		
6640	T	T	A	ATGCTGCTCTAAGTGCTGCAAAAATGACCTTCCTTTCACCATCCAAGGCCTATTCTCCTG		
				CATGTGGACGTTGTCCTGCACAGGAGAATAGGCCTTGGATGGTGAAAGGAAGGTCATTTT[CT]GCAGCACTTAGAGCAGCATCTTGAGTCCGACTAAGTCTGCAA		
6640	IS	[CT]		CGTCTTACTATGAAGTAT	ctg22fin4	22
6644	I		A	TGGAATTCTGTCAAGTACACATTCAGGGCCCCATCT		
6644	P	G	A	ATGACGTGGCAGACGAATCACAGGGAGGCCY		
6644	P	A	A	CGCGCCGAGGAAATCACAGGGAGGCCY		
6644	T	G	A	TCACGGCCTCCCTGTGATTCGATGGGGCCCTGAATGTGTACTTGACAGAATTCCAAA		
6644	T	A	A	TCACGGCCTCCCTGTGATTTGATGGGGCCCTGAATGTGTACTTGACAGAATTCCAAA		
				GTGGGGGTATGGCACCAAGTTGGTTTGGAATTCTGTCAAGTACACATTCAGGGCCCCATC[GA]AATCACAGGGAGGCCGTGATGGAGGACACGATCTGCCCAGA		
6644	IS	[GA]		CGACTGAGGTTGGTGTACG	ctg22fin4	22
6648	I		A	CATCTAGTGGGTAGAAGTAAGGGATACTGCTAAACAACTTGCAAA		
6648	P	C	A	ATGACGTGGCAGACCGCACAGGACAGCY		
6648	P	T	A	CGCGCCGAGGTGCACAGGACAGCCY		
6648	T	C	A	TGGGGGCTGTCCTGTGCGTTGCAAGTTGTTTAGCAGTATCCCTTACTTCTACCCACTAGATGCC		
6648	T	T	A	TGGGGGCTGTCCTGTGCATTGCAAGTTGTTTAGCAGTATCCCTTACTTCTACCCACTAGATGCC		
				GAAGAGAATCTACTGGCATCTAGTGGGTAGAAGTAAGGGATACTGCTAAACAACTTGCAA[CT]GCACAGGACAGCCCCCATCCCTTAACAAAAAAATTACTGAGTC		
6648	IS	[CT]		TAAAAGTTCAATAAAGC	ctg15804	2
6656	I		S	AGCCCTGAAGTTCTAGACCAGCCTAGGCAACT		
6656	P	T	S	CGCGCCGAGGATGGCAAACCCTTTCTCY		
6656	P	C	S	ATGACGTGGCAGACGTGGCAAACCCTTTCTCY		
6656	T	T	S	GGGGGAGAAAGGGTTTGCCATGTTGCCTAGGCTGGTCTAGAACTTCAGGGCTCA		
6656	T	C	S	GGGGGAGAAAGGGTTTGCCACGTTGCCTAGGCTGGTCTAGAACTTCAGGGCTCA		
				CCTCAGGAGTAGCTGGGACTATGCTAATTTTTAATCTTTGGGGGAGAAAGGGTTTGCCA[TC]GTTGCCTAGGCTGGTCTAGAACTTCAGGGCTCAAGCAATCCTC		
6656	IS	[TC]		CCACGTTGGCCTCCCAA	ctg12325	11
6666	I		A	TGATTGGGTATGGGGGGACAGGAGT		
6666	P	G	A	ATGACGTGGCAGACGGCTACCTGATGGAATAACTCY		
6666	P	A	A	CGCGCCGAGGGACTACCTGATGGAATAACTCTY		
6666	T	G	A	AGAGAGAGTTATTCCATCAGGTAGCCCTCCTGTCCCCCCATACCCAATCAAT		
6666	T	A	A	AGAGAGAGTTATTCCATCAGGTAGTCCTCCTGTCCCCCCATACCCAATCAAT		
				CGCTCCATATCATTGATTGCTCCATATCATATCATTGATTGGGTATGGGGGGACAGGAGG[GA]CTACCTGATGGAATAACTCTCTCTTCACCGATTCCTTGTTGTA		
6666	IS	[GA]		GACTATTGGGGAGAGTC	ctg22fin3	22
6669	I		S	AGCCCTGGAGGAGTATATATCAAAAAGACATCCCATATAT		
6669	P	G	S	*CGCGCCGAGGCTAAATAACTGAGGCCCTAACY*		
6669	P	C	S	ATGACGTGGCAGACGTAAATAACTGAGGCCCTAACY		
6669	T	G	S	TGTTGTTAGGGCCTCAGTTATTTAGTATATGGGATGTCTTTTTGATATATACTCCTCCAGGGCTTA		
6669	T	C	S	TGTTGTTAGGGCCTCAGTTATTTACTATATGGGATGTCTTTTTGATATATACTCCTCCAGGGCTTA		
				TTACATGCTTTTAATACAGCTAATTACAAGCACATGTGTTGTTAGGGCCTCAGTTATTTA[GC]TATATGGGATGTCTTTTTGATATATACTCCTCCAGGGCTTATCTT		
6669	IS	[GC]		TCCTTTCCTACTGTT	ctg13214	2
6680	I		A	AGCTTCTCCTGAAGTATTTATCAGGATCCACCCTGGTTT		
6680	P	A	A	CGCGCCGAGGAAAGGCATCAACGGTTTY		
6680	P	G	A	ATGACGTGGCAGACGAAGGCATCAACGGTTTY		
6680	T	A	A	CTCAAAACCGTTGATGCCTTTAACCAGGGTGGATCCTGATAAATACTTCAGGAGAAGCTGG		
6680	T	G	A	CTCAAAACCGTTGATGCCTTCAACCAGGGTGGATCCTGATAAATACTTCAGGAGAAGCTGG		
				CAATACCCCAACCAAGGACTCCAGCTTCTCCTGAAGTATTTATCAGGATCCACCCTGGTT[AG]AAGGCATCAACGGTTTTGAGGCTGAATTTAACAAGAGTCAAACT		
6680	IS	[AG]		TCCTTCCACTTGAGGA	ctg53	14
6681	I		S	GAAGTTTGACTCTTGTTAAATTCAGCCTCAAAACGGTTGATGCA		
6681	P	G	S	ATGACGTGGCAGACCTTTAACCAGGGTGGATCY		
6681	P	A	S	CGCGCCGAGGTTTTAACCAGGGTGGATCY		
6681	T	G	S	*TCAGGATCCACCCTGGTTAAAGGCATCAACGGTTTTGAGGCTGAATTTAACAAGAGTCAAACTTCCT*		
6681	T	A	S	TCAGGATCCACCCTGGTTAAAAGCATCAACGGTTTTGAGGCTGAATTTAACAAGAGTCAAACTTCCT		
				TACCCCAACCAAGGACTCCAGCTTCTCCTGAAGTATTTATCAGGATCCACCCTGGTTAAA[GA]GCATCAACGGTTTTGAGGCTGAATTTAACAAGAGTCAAACTTCC		
6681	IS	[GA]		TTCCACTTGAGGAAAC	ctg53	14
6695	I		A	TGAGTTGCACATATGACACCAGTGAGAGTAATTATTATTTGTTCTGGTACAAT		
6695	P	G	A	ATGACGTGGCAGACGCAGCCTCCCAGCY		
6695	P	A	A	CGCGCCGAGGACAGCCTCCCAGCY		
6695	T	G	A	GCCTGCTGGGAGGCTGCTTGTACCAGAACAAATAATAATTACTCTCACTGGTGTCATATGTGCAACTCAGG		
6695	T	A	A	*GCCTGCTGGGAGGCTGTTTGTACCAGAACAAATAATAATTACTCTCACTGGTGTCATATGTGCAACTCAGG*		
				TGTGACCCTGAGTTGCACATATGACACCAGTGAGAGTAATTATTATTTGTTCTGGTACAA[GA]CAGCCTCCCAGCAGGCAGATGATTCTCGTTATTCGCCAAGAAG		
6695	IS	[GA]		CTTATAAGCAACAGAAT	ctg53	14
6712	I		S	AGGAGGGTGGCTCCTCTCCACTCCAA		
6712	P	G	S	ATGACGTGGCAGACCGGACAAACAGGAGTGY		
6712	P	A	S	CGCGCCGAGGTGGACAAACAGGAGTGGY		
6712	T	G	S	CAGGCCACTCCTGTTTGTCCGTGGAGTGGAGAGGAGCCACCCTCCTGC		
6712	T	A	S	CAGGCCACTCCTGTTTGTCCATGGAGTGGAGAGGAGCCACCCTCCTGC		
				TTCCAAAGGTAGCAGTGAGGATGGCACACATTTATGTAGCCAGGCCACTCCTGTTTGTCC[GA]TGGAGTGGAGAGGAGCCACCCTCCTGCCCTCTCAGAGGTCCA		
6712	IS	[GA]		GGTGTGCTCACTCCTATT	ctg12325	11
6713	I		S	GGAGAAAGAAAGTCCAGGGTCAAACGGGAAGGTT		
6713	P	C	S	ATGACGTGGCAGACGGCACCCCCTACCY		
6713	P	G	S	CGCGCCGAGGCGCACCCCCTACCY		
6713	T	C	S	TGCTGGTAGGGGGTGCCACCTTCCCGTTTGACCCTGGACTTTCTTTCTCCAC		
6713	T	G	S	TGCTGGTAGGGGGTGCGACCTTCCCGTTTGACCCTGGACTTTCTTTCTCCAC		
				CAGCCCTGCAGGGGCCCCTGGCTCTGCTCGTGTTTCTGGGCTTCTGCTGGTAGGGGGTGC[CG]ACCTTCCCGTTTGACCCTGGACTTTCTTTCTCCACTGCCCA		
6713	IS	[CG]		*CTTTCACCCACTGGGCAGC*	ctg12325	11
6720	I		A	GGCTCAAAATCTCTTAGTCAATCCCATATACATGCTTCCCCAT		
6720	P	C	A	CGCGCCGAGGCAGAGTCTAGTTCCTCCAGY		
6720	P	G	A	ATGACGTGGCAGACGAGAGTCTAGTTCCTCCAGY		
6720	T	C	A	CTTGCTGGAGGAACTAGACTCTGTGGGGAAGCATGTATATGGGATTGACTAAGAGATTTTGAGCCTT		
6720	T	G	A	CTTGCTGGAGGAACTAGACTCTCTGGGGAAGCATGTATATGGGATTGACTAAGAGATTTTGAGCCTT		
				CTCGGGCCATGCCTTGAAGGCTCAAAATCTCTTAGTCAATCCCATATACATGCTTCCCCA[CG]AGAGTCTAGTTCCTCCAGCAAGACCTGGGCTATACTCACCCCT		
6720	IS	[CG]		CCCCACATATCTTGGAG	ctg14145	11
6744	I		A	CCTCTCTGTAGTGGTCTCCTTGCGCCAC		
6744	P	G	A	ATGACGTGGCAGACGATTCAGCGCAGAGCY		
6744	P	T	A	CGCGCCGAGGTATTCAGCGCAGAGCCY		
6744	T	G	A	GGGCGGCTCTGCGCTGAATCTGGCGCAAGGAGACCACTACAGAGAGGCC		
6744	T	T	A	GGGCGGCTCTGCGCTGAATATGGCGCAAGGAGACCACTACAGAGAGGCC		

FIGURE 129B

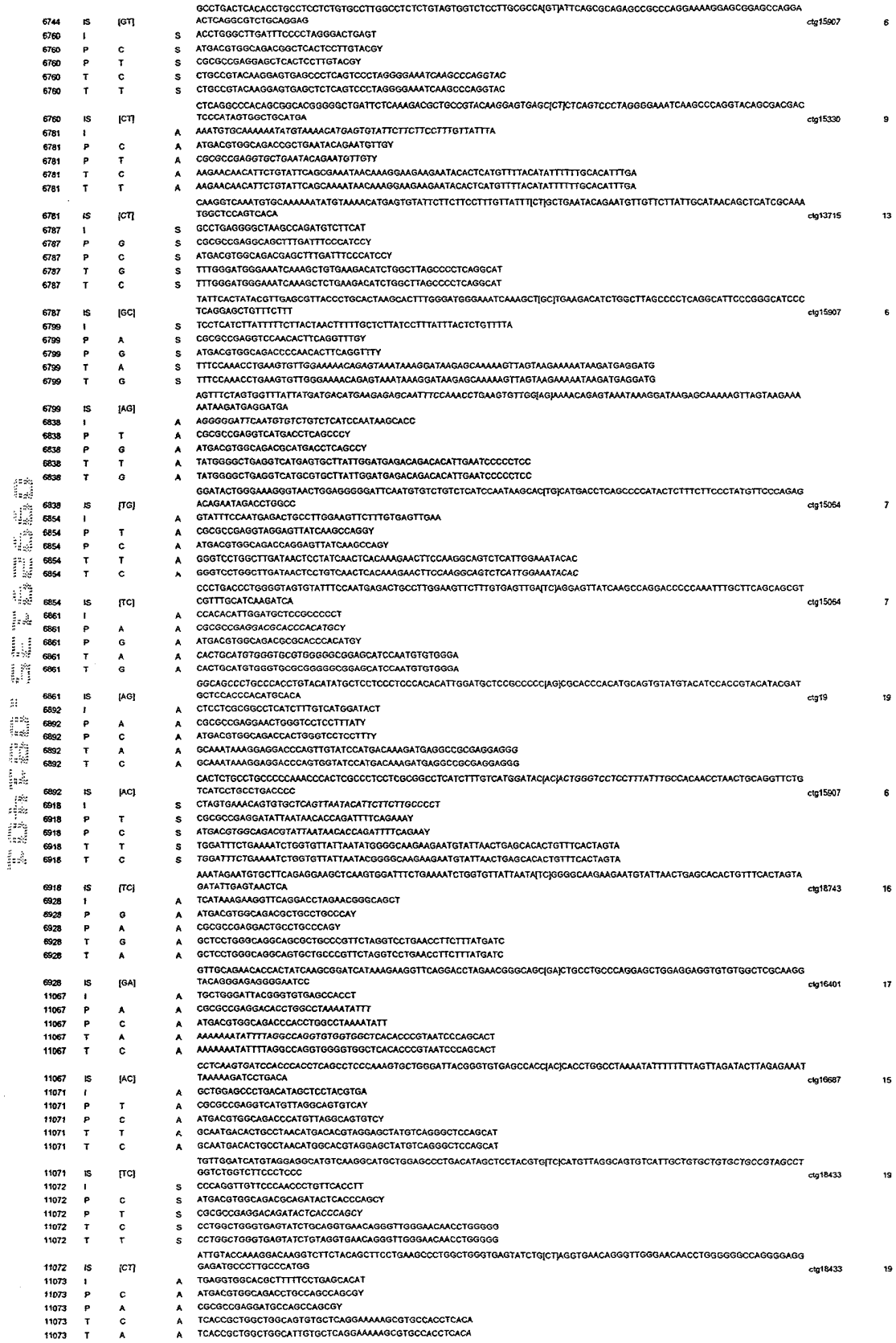

GCCTGACTCACACCTGCCTCCTCTGTGCCTTGGCCTCTCTGTAGTGGTCTCCTTGCGCCA[GT]ATTCAGCGCAGAGCCGCCCAGGAAAAGGAGCGGAGCCAGGA
6744 IS [GT] ACTCAGGCGTCTGCAGGAG ctg15907 6
6760 I S ACCTGGGCTTGATTTCCCCTAGGGACTGAGT
6760 P C S ATGACGTGGCAGACGGCTCACTCCTTGTACGY
6760 P T S CGCGCCGAGGAGCTCACTCCTTGTACGY
6760 T C S CTGCCGTACAAGGAGTGAGCCCTCAGTCCCTAGGGGAAATCAAGCCCAGGTAC
6760 T T S CTGCCGTACAAGGAGTGAGCTCTCAGTCCCTAGGGGAAATCAAGCCCAGGTAC
CTCAGGCCCACAGCGGCACGGGGGCTGATTCTCAAAGACGCTGCCGTACAAGGAGTGAGC[CT]CTCAGTCCCTAGGGGAAATCAAGCCCAGGTACAGCGACGAC
6760 IS [CT] TCCCATAGTGGCTGCATGA ctg15330 9
6781 I A AAATGTGCAAAAAATATGTAAAACATGAGTGTATTCTTCTTCCTTTGTTATTTA
6781 P C A ATGACGTGGCAGACCGCTGAATACAGAATGTTGY
6781 P T A CGCGCCGAGGTGCTGAATACAGAATGTTGTY
6781 T C A AAGAACAACATTCTGTATTCAGCGAAATAACAAAGGAAGAAGAATACACTCATGTTTTACATATTTTTTGCACATTTGA
6781 T T A AAGAACAACATTCTGTATTCAGCAAAATAACAAAGGAAGAAGAATACACTCATGTTTTACATATTTTTTGCACATTTGA
CAAGGTCAAATGTGCAAAAAATATGTAAAACATGAGTGTATTCTTCTTCCTTTGTTATTT[CT]GCTGAATACAGAATGTTGTTCTTATTGCATAACAGCTCATCGCAAA
6781 IS [CT] TGGCTCCAGTCACA ctg13715 13
6787 I S GCCTGAGGGGCTAAGCCAGATGTCTTCAT
6787 P G S CGCGCCGAGGCAGCTTTGATTTCCCATCCY
6787 P C S ATGACGTGGCAGACGAGCTTTGATTTCCCATCCY
6787 T G S TTTGGGATGGGAAATCAAAGCTGTGAAGACATCTGGCTTAGCCCCTCAGGCAT
6787 T C S TTTGGGATGGGAAATCAAAGCTCTGAAGACATCTGGCTTAGCCCCTCAGGCAT
TATTCACTATACGTTGAGCGTTACCCTGCACTAAGCACTTTGGGATGGGAAATCAAAGCT[GC]TGAAGACATCTGGCTTAGCCCCTCAGGCATTCCCGGGCATCCC
6787 IS [GC] TCAGGAGCTGTTTCTTT ctg15907 6
6799 I S TCCTCATCTTATTTTTCTTACTAACTTTTTGCTCTTATCCTTTATTTACTCTGTTTTA
6799 P A S CGCGCCGAGGTCCAACACTTCAGGTTTGY
6799 P G S ATGACGTGGCAGACCCCAACACTTCAGGTTTY
6799 T A S TTTCCAAACCTGAAGTGTTGGAAAAACAGAGTAAATAAAGGATAAGAGCAAAAAGTTAGTAAGAAAAATAAGATGAGGATG
6799 T G S TTTCCAAACCTGAAGTGTTGGGAAAACAGAGTAAATAAAGGATAAGAGCAAAAAGTTAGTAAGAAAAATAAGATGAGGATG
AGTTTCTAGTGGTTTATTATGATGACATGAAGAGAGCAATTTCCAAACCTGAAGTGTTGG[AG]AAAACAGAGTAAATAAAGGATAAGAGCAAAAAGTTAGTAAGAAA
6799 IS [AG] AATAAGATGAGGATGA
6838 I A AGGGGGATTCAATGTGTCTGTCTCATCCAATAAGCACC
6838 P T A CGCGCCGAGGTCATGACCTCAGCCCY
6838 P G A ATGACGTGGCAGACGCATGACCTCAGCCY
6838 T T A TATGGGGCTGAGGTCATGAGTGCTTATTGGATGAGACAGACACATTGAATCCCCCTCC
6838 T G A TATGGGGCTGAGGTCATGCGTGCTTATTGGATGAGACAGACACATTGAATCCCCCTCC
GGATACTGGGAAAGGGTAACTGGAGGGGGATTCAATGTGTCTGTCTCATCCAATAAGCAC[TG]CATGACCTCAGCCCCATACTCTTTCTTCCCTATGTTCCCAGAG
6838 IS [TG] ACAGAATAGACCTGGCC ctg15064 7
6854 I A GTATTTCCAATGAGACTGCCTTGGAAGTTCTTTGTGAGTTGAA
6854 P T A CGCGCCGAGGTAGGAGTTATCAAGCCAGGY
6854 P C A ATGACGTGGCAGACCAGGAGTTATCAAGCCAGY
6854 T T A GGGTCCTGGCTTGATAACTCCTATCAACTCACAAAGAACTTCCAAGGCAGTCTCATTGGAAATACAC
6854 T C A GGGTCCTGGCTTGATAACTCCTGTCAACTCACAAAGAACTTCCAAGGCAGTCTCATTGGAAATACAC
CCCTGACCCTGGGGTAGTGTATTTCCAATGAGACTGCCTTGGAAGTTCTTTGTGAGTTGA[TC]AGGAGTTATCAAGCCAGGACCCCCAAATTTGCTTCAGCAGCGT
6854 IS [TC] CGTTTGCATCAAGATCA ctg15064 7
6861 I A CCACACATTGGATGCTCCGCCCCCT
6861 P A A CGCGCCGAGGACGCACCCACATGCY
6861 P G A ATGACGTGGCAGACGCGCACCCACATGY
6861 T A A CACTGCATGTGGGTGCGTGGGGGCGGAGCATCCAATGTGTGGGA
6861 T G A CACTGCATGTGGGTGCGCGGGGGCGGAGCATCCAATGTGTGGGA
GGCAGCCCTGCCCACCTGTACATATGCTCCTCCCTCCCACACATTGGATGCTCCGCCCCC[AG]CGCACCCACATGCAGTGTATGTACATCCACCGTACATACGAT
6861 IS [AG] GCTCCACCCACATGCACA ctg19 19
6892 I A CTCCTCGCGGCCTCATCTTTGTCATGGATACT
6892 P A A CGCGCCGAGGAACTGGGTCCTCCTTTATY
6892 P C A ATGACGTGGCAGACCACTGGGTCCTCCTTTY
6892 T A A GCAAATAAAGGAGGACCCAGTTGTATCCATGACAAAGATGAGGCCGCGAGGAGGG
6892 T C A GCAAATAAAGGAGGACCCAGTGGTATCCATGACAAAGATGAGGCCGCGAGGAGGG
CACTCTGCCTGCCCCCAAACCCACTCGCCCTCCTCGCGGCCTCATCTTTGTCATGGATAC[AC]ACTGGGTCCTCCTTTATTTGCCACAACCTAACTGCAGGTTCTG
6892 IS [AC] TCATCCTGCCTGACCCC ctg15907 6
6918 I S CTAGTGAAACAGTGTGCTCAGTTAATACATTCTTCTTGCCCCT
6918 P T S CGCGCCGAGGATATTAATAACACCAGATTTTCAGAAAY
6918 P C S ATGACGTGGCAGACGTATTAATAACACCAGATTTTCAGAAAY
6918 T T S TGGATTTCTGAAAATCTGGTGTTATTAATATGGGGCAAGAAGAATGTATTAACTGAGCACACTGTTTCACTAGTA
6918 T C S TGGATTTCTGAAAATCTGGTGTTATTAATACGGGGCAAGAAGAATGTATTAACTGAGCACACTGTTTCACTAGTA
AAATAGAATGTGCTTCAGAGGAAGCTCAAGTGGATTTCTGAAAATCTGGTGTTATTAATA[TC]GGGGCAAGAAGAATGTATTAACTGAGCACACTGTTTCACTAGTA
6918 IS [TC] GATATTGAGTAACTCA ctg18743 16
6928 I A TCATAAAGAAGGTTCAGGACCTAGAACGGGCAGCT
6928 P G A ATGACGTGGCAGACGCTGCCTGCCCAY
6928 P A A CGCGCCGAGGACTGCCTGCCCAGY
6928 T G A GCTCCTGGGCAGGCAGCGCTGCCCGTTCTAGGTCCTGAACCTTCTTTATGATC
6928 T A A GCTCCTGGGCAGGCAGTGCTGCCCGTTCTAGGTCCTGAACCTTCTTTATGATC
GTTGCAGAACACCACTATCAAGCGGATCATAAAGAAGGTTCAGGACCTAGAACGGGCAGC[GA]CTGCCTGCCCAGGAGCTGGAGGAGGGTGTGTGGCTCGCAAGG
6928 IS [GA] TACAGGGAGAGGGGAATCC ctg16401 17
11067 I A TGCTGGGATTACGGGTGTGAGCCACCT
11067 P A A CGCGCCGAGGACACCTGGCCTAAAATATTT
11067 P C A ATGACGTGGCAGACCCACCTGGCCTAAAATATT
11067 T A A AAAAAATATTTTAGGCCAGGTGTGGTGGCTCACACCCGTAATCCCAGCACT
11067 T C A AAAAAAATATTTTAGGCCAGGTGGGGTGGCTCACACCCGTAATCCCAGCACT
CCTCAAGTGATCCACCCACCTCAGCCTCCCAAAGTGCTGGGATTACGGGTGTGAGCCACC[AC]CACCTGGCCTAAAATATTTTTTTTAGTTAGATACTTAGAGAAAT
11067 IS [AC] TAAAAAGATCCTGACA ctg16687 15
11071 I A GCTGGAGCCCTGACATAGCTCCTACGTGA
11071 P T A CGCGCCGAGGTCATGTTAGGCAGTGTCAY
11071 P C A ATGACGTGGCAGACCCATGTTAGGCAGTGTCY
11071 T T A GCAATGACACTGCCTAACATGACACGTAGGAGCTATGTCAGGGCTCCAGCAT
11071 T C A GCAATGACACTGCCTAACATGGCACGTAGGAGCTATGTCAGGGCTCCAGCAT
TGTTGGATCATGTAGGAGGCATGTCAAGGCATGCTGGAGCCCTGACATAGCTCCTACGTG[TC]CATGTTAGGCAGTGTCATTGCTGTGCTGTGCTGCCGTAGCCT
11071 IS [TC] GGTCTGGTCTTCCCTCCC ctg18433 19
11072 I S CCCAGGTTGTTCCCAACCCTGTTCACCTT
11072 P C S ATGACGTGGCAGACGCAGATACTCACCCAGCY
11072 P T S CGCGCCGAGGACAGATACTCACCCAGCY
11072 T C S CCTGGCTGGGTGAGTATCTGCAGGTGAACAGGGTTGGGAACAACCTGGGGG
11072 T T S CCTGGCTGGGTGAGTATCTGTAGGTGAACAGGGTTGGGAACAACCTGGGGG
ATTGTACCAAAGGACAAGGTCTTCTACAGCTTCCTGAAGCCCTGGCTGGGTGAGTATCTG[CT]AGGTGAACAGGGTTGGGAACAACCTGGGGGGCCAGGGGAGG
11072 IS [CT] GAGATGCCCTTGCCCATGG ctg18433 19
11073 I A TGAGGTGGCACGCTTTTTCCTGAGCACAT
11073 P C A ATGACGTGGCAGACCTGCCAGCCAGCGY
11073 P A A CGCGCCGAGGATGCCAGCCAGCGY
11073 T C A TCACCGCTGGCTGGCAGTGTGCTCAGGAAAAAGCGTGCCACCTCACA
11073 T A A TCACCGCTGGCTGGCATTGTGCTCAGGAAAAAGCGTGCCACCTCACA

FIGURE 129B

				GCCAAGTTCGGGCAGCCCCAAGGATCCCCTTGTGAGGTGGCACGCTTTTTCCTGAGCACA[CA]TGCCAGCCAGCGGTGAATGCCAGTGGCATTATGCCAACCCC			
11073	IS	[CA]		CTAGTGCCTAGCAGCTCGT	ctg21fin2	21	SIM2
11080	I		A	GCTCTGTGGGGCCCTGGCACTTAGT			
11080	P	G	A	*ATGACGTGGCAGACGAGTGACAGGAGCCAY*			
11080	P	C	A	CGCGCCGAGGCAGTGACAGGAGCCAY			
11080	T	G	A	GGACTGGCTCCTGTCACTCCTAAGTGCCAGGGCCCCACAGAGCCC			
11080	T	C	A	GGACTGGCTCCTGTCACTGCTAAGTGCCAGGGCCCCACAGAGCCC			
				TGGTGGGTTACAGATCTTGACCACTTGGCACCAGGGGCTCTGTGGGGCCCTGGCACTTAG[GC]AGTGACAGGAGCCAGTCCTGCCCTGCAGGAGCACCCGGGC			
11080	IS	[GC]		TGGTGGGCGTCTGGGGGATT	ctg21fin5	21	
11081	I		A	AGCCTAGCCTGGCTGTCTGGGGGT			
11081	P	G	A	ATGACGTGGCAGACGATTCTGGAGGAAGTGGTY			
11081	P	C	A	CGCGCCGAGGCATTCTGGAGGAAGTGGY			
11081	T	G	A	AGGTACCACTTCCTCCAGAATCCCCCCAGACAGCCAGGCTAGGCTGG			
11081	T	C	A	AGGTACCACTTCCTCCAGAATGCCCCCAGACAGCCAGGCTAGGCTGG			
				ATTGTTAGAATGAGTGAGGTCATTGCCGTGCAGGACCAGCCTAGCCTGGCTGTCTGGGGG[GC]ATTCTGGAGGAAGTGGTACCTGGGAGACCCCTGAAGGCACA			
11081	IS	[GC]		GCAGGCACCATCCAGGCAG	ctg21fin5	21	
11082	I		A	CCTGGCCCCACTGCCCTGTGAGT			
11082	P	G	A	ATGACGTGGCAGACGAAGGGTTCATGTGGTTGY			
11082	P	A	A	CGCGCCGAGGAAAGGGTTCATGTGGTTGY			
11082	T	G	A	ACACCAACCACATGAACCCTTCCTCACAGGGCAGTGGGGCCAGGCC			
11082	T	A	A	ACACCAACCACATGAACCCTTTCTCACAGGGCAGTGGGGCCAGGCC			
				ATTCAGCAGGCGCTGAGGTCGGGAGAGACCTCCCTGGGCCTGGCCCCACTGCCCTGTGAG[GA]AAGGGTTCATGTGGTTGGTGTACAGTTCCGGGGCCCCTGG			
11082	IS	[GA]		AACGCAGCAGCCTGCAAGAA	ctg21fin5	21	
11087	I		A	CCGCCCCAGCCCTGAAAGCGTTAAA			
11087	P	T	A	*CGCGCCGAGGTCCTGGAGCTTTCTGCY*			
11087	P	C	A	ATGACGTGGCAGACCCCTGGAGCTTTCTGY			
11087	T	T	A	GTGTGCAGAAAGCTCCAGGATTAACGCTTTCAGGGCTGGGGCGGAA			
11087	T	C	A	GTGTGCAGAAAGCTCCAGGGTTAACGCTTTCAGGGCTGGGGCGGAA			
				CCACCCCTCACGCCCCACCTCCCTGGGGGATCCTTTCCGCCCCAGCCCTGAAAGCGTTAA[TC]CCTGGAGCTTTCTGCACACCCCCCGACCGCTCCCGCCCAAG			
11087	IS	[TC]		CTTCCTAAAAAAGAAAGGT	ctg17944	8	
11088	I		A	GGCGAGGATGCAGAACTGGGGTGTCTTTA			
11088	P	C	A	ATGACGTGGCAGACCCCAGTGAGTAATTGGAGY			
11088	P	T	A	*CGCGCCGAGGTCCAGTGAGTAATTGGAGCY*			
11088	T	C	A	AGAGGCTCCAATTACTCACTGGGAAAGACACCCCAGTTCTGCATCCTCGCCCT			
11088	T	T	A	AGAGGCTCCAATTACTCACTGGAAAAGACACCCCAGTTCTGCATCCTCGCCCT			
				ACACCTGATGTGGGTGTGGTGCGACTTCCCAGGGCGAGGATGCAGAACTGGGGTGTCTTT[CT]CCAGTGAGTAATTGGAGCCTCTGTCCCTCGGTGACTTCTCAA			
11088	IS	[CT]		CCAGCAGTGCCACCCCCC	ctg16166	14	
11097	I		A	TCCACAGCTGGTTCCTGGGAACCCCT			
11097	P	G	A	ATGACGTGGCAGACGCAGGGCATGCGY			
11097	P	A	A	CGCGCCGAGGACAGGGCATGCGGY			
11097	T	G	A	TGCTCCGCATGCCCTGCGGGGTTCCCAGGAACCAGCTGTGGAGC			
11097	T	A	A	TGCTCCGCATGCCCTGTGGGGTTCCCAGGAACCAGCTGTGGAGC			
				GGAAGGAGCCGCAGAGCTTCTCAAGGGGCCTTGGCTCCACAGCTGGTTCCTGGGAACCCC[GA]CAGGGCATGCGGAGCAGGTGCAGGCTCGACTACAGCTCGT			
11097	IS	[GA]		GGACTCGGCCGGCAGCGAGT	ctg16045	6	KNSL3
11098	I		A	CCCTGCCTGGGTCCCAAACTATCCCCT			
11098	P	A	A	CGCGCCGAGGACCATTACAGGAAATACACAGY			
11098	P	G	A	ATGACGTGGCAGACGCCATTACAGGAAATACACAY			
11098	T	A	A	CGTACTGTGTATTTCCTGTAATGGTGGGGATAGTTTGGGACCCAGGCAGGGGT			
11098	T	G	A	CGTACTGTGTATTTCCTGTAATGGCGGGGATAGTTTGGGACCCAGGCAGGGGT			
				TGGGTCTGAAGGAGGAGGGGGCTGGGGGCAATACCCCTGCCTGGGTCCCAAACTATCCCC[AG]CCATTACAGGAAATACACAGTACGCCTGGGAGACCACAGCC			
11098	IS	[AG]		TACAGAATAAAGATGGCCC	ctg5212	19	
11102	I		A	GGCCATGGTCATGCATCAGCCCTACTCAA			
11102	P	C	A	ATGACGTGGCAGACCTTAAAGATCACACAAAAAGGTY			
11102	P	T	A	CGCGCCGAGGTTTAAAGATCACACAAAAAGGTGY			
11102	T	C	A	GGCTCACCTTTTTGTGTGATCTTTAAGTGAGTAGGGCTGATGCATGACCATGGCCTC			
11102	T	T	A	GGCTCACCTTTTTGTGTGATCTTTAAATGAGTAGGGCTGATGCATGACCATGGCCTC			
				CTTCTGACTGCTTGTTGTTTGTACTTCCTAGAGGCCATGGTCATGCATCAGCCCTACTCA[CT]TTAAAGATCACACAAAAAGGTGAGCCTTTTATAGACATTATGAA			
11102	IS	[CT]		CTAATCACATAAAGTA	ctg15148	8	
11177	I		A	GAAGGGGGCAAGTTCGGGTTTAGTCCCTT			
11177	P	A	A	CGCGCCGAGGACCCTCCTCTTCCAGY			
11177	P	G	A	ATGACGTGGCAGACGCCCTCCTCTTCCAGY			
11177	T	A	A	TCTGCTGGAAGAGGAGGGTAGGGACTAAACCCGAACTTGCCCCCTTCTC			
11177	T	G	A	TCTGCTGGAAGAGGAGGGCAGGGACTAAACCCGAACTTGCCCCCTTCTC			
				CATAGCCCGTTCCAAAGAAGGGTCTAAAGGGAGAAGGGGGCAAGTTCGGGTTTAGTCCCT[AG]CCCTCCTCTTCCAGCAGAAAACCCACCGCTTTTCTCTTGTTC			
11177	IS	[AG]		AGCTCCTTTAAGATTGTC	ctg11	15	
11193	I		S	GCAGCTGGCCTGTTTTCAAGAGCCCTT			
11193	P	C	S	ATGACGTGGCAGACGTGGGAACAGATCTATGGY			
11193	P	T	S	CGCGCCGAGGATGGGAACAGATCTATGGGY			
11193	T	C	S	GCTTCCCATAGATCTGTTCCCACAGGGCTCTTGAAAACAGGCCAGCTGCCC			
11193	T	T	S	GCTTCCCATAGATCTGTTCCCATAGGGCTCTTGAAAACAGGCCAGCTGCCC			
				GTACAGCAGTTATAACTATAGGTGAGGCTGGAAAGATGGCTTCCCATAGATCTGTTCCCA[CT]AGGGCTCTTGAAAACAGGCCAGCTGCCCAGGGCATTTGGGGA			
11193	IS	[CT]		CTGAATGTCCACCTTATT	ctg22fin11	22	
11203	I		A	CCAGGCAGGCCAACAGATGTGCTAATGTCCA			
11203	P	C	A	ATGACGTGGCAGACCTCACAGGCCCAAGTY			
11203	P	T	A	CGCGCCGAGGTTCACAGGCCCAAGTY			
11203	T	C	A	ATTGACTTGGGCCTGTGAGGGACATTAGCACATCTGTTGGCCTGCCTGGCA			
11203	T	T	A	ATTGACTTGGGCCTGTGAAGGACATTAGCACATCTGTTGGCCTGCCTGGCA			
				CACCCTCAAA*TTGTGGGCAAGCTCTCACT*GCCAGGCAGGCCAACAGATGTGCTAATGTCC[CT]TCACAGGCCCAAGTCAATGCTTCCAGCACAGCCATGCTGCTC			
11203	IS	[CT]		AGAGGATGAGGCAGGTCA	ctg22fin3	22	
11216	I		S	CTCTGGGGTGATGTCTGCACCACCAGTT			
11216	P	C	S	ATGACGTGGCAGACGAGAGCTTTAGATTCTGGAGY			
11216	P	T	S	CGCGCCGAGGAAGAGCTTTAGATTCTGGAGY			
11216	T	C	S	ATTGCTCCAGAATCTAAAGCTCTCACTGGTGGTGCAGACATCACCCCAGAGGC			
11216	T	T	S	ATTGCTCCAGAATCTAAAGCTCTTACTGGTGGTGCAGACATCACCCCAGAGGC			
				ATTTCCAGAGGCTGGGGCTCCCATTAGCGGTGTGGACATTGCTCCAGAATCTAAAGCTCT[CT]ACTGGTGGTGCAGACATCACCCCAGAGGCTGTTGCTCTCACT			
11216	IS	[CT]		GGCGGATTAGACATCATT	ctg15815	X	
11217	I		A	TGAGGTCGGATTTCCATTAGCCACATCCTTGCTTC			
11217	P	A	A	CGCGCCGAGGAGCTCCTTCCTCTGCY			
11217	P	T	A	ATGACGTGGCAGACTGCTCCTTCCTCTGCY			
11217	T	A	A	AACAGCAGAGGAAGGAGCTAAGCAAGGATGTGGCTAATGGAAATCCGACCTCAGT			
11217	T	T	A	AACAGCAGAGGAAGGAGCAAAGCAAGGATGTGGCTAATGGAAATCCGACCTCAGT			
				CACACTGGACTCCTGGGAAATCCCACTGAGGTCGGATTTCCATTAGCCACATCCTTGCTT[AT]GCTCCTTCCTCTGCTGTTACCCACTTCCCTCAATTCCTTACAAG			
11217	IS	[AT]		TTTTTCTCTTGAGAAC	ctg25099	7	
11219	I		A	GTGTAGTTAGCAAGGCTCTTCTTTATGTTGAATCTGTCCTTTTAGACTCTTATGC			
11219	P	T	A	CGCGCCGAGGTGTTTATACTGTCTGTGATTTGTY			
11219	P	G	A	ATGACGTGGCAGACGGTTTATACTGTCTGTGATTTGY			
11219	T	T	A	AGGGACAAATCACAGACAGTATAAACACATAAGAGTCTAAAAGGACAGATTCAACATAAAGAAGAGCCTTGCTAACTACACCA			
11219	T	G	A	AGGGACAAATCACAGACAGTATAAACCCATAAGAGTCTAAAAGGACAGATTCAACATAAAGAAGAGCCTTGCTAACTACACCA			

FIGURE 129B

				CCAGTGGTGTAGTTAGCAAGGCTCTTCTTTATGTTGAATCTGTCCTTTTAGACTCTTATG[TG]GTTTATACTGTCTGTGATTTGTCCCTACATCAATGTGTGTAATAG			
11219	IS	[TG]		AGTGAGTCAGTCATT		ctg25099	7
11221	I		A	GACATTGAATTTTCTTCTTCCTTTTTGGTGTGTTTTGGATTTTTA			
11221	P	T	A	CGCGCCGAGGTTGGTGTTCTGTTTTGGAY			
11221	P	C	A	ATGACGTGGCAGACCTGGTGTTCTGTTTTGGAY			
11221	T	T	A	ACCGTCCAAAACAGAACACCAAAAAAATCCAAAACACACCAAAAAGGAAGAAGAAAATTCAATGTCAT			
11221	T	C	A	ACCGTCCAAAACAGAACACCAGAAAAATCCAAAACACACCAAAAAGGAAGAAGAAAATTCAATGTCAT			
				ATAATCAATATTAGATGACATTGAATTTTCTTCTTCCTTTTTGGTGTGTTTTGGATTTTT[TC]TGGTGTTCTGTTTTGGACGGTTTTGAATTATCTAATTGTCCCGGAT			
11221	IS	[TC]		CATGATTGTCACTT			
11222	I		S	AGGCCGAGATCACCTCAGGCGCTCC			
11222	P	C	S	ATGACGTGGCAGACGCGGTGCAATCACAGY			
11222	P	A	S	CGCGCCGAGGTCGGTGCAATCACAGAY			
11222	T	C	S	GCGCTCTGTGATTGCACCGCGAGCGCCTGAGGTGATCTCGGCCTAC			
11222	T	A	S	GCGCTCTGTGATTGCACCGAGAGCGCCTGAGGTGATCTCGGCCTAC			
				CTGAGCGGAGGGATCTCAGGGCGAGCTCGAGCGGCGACGGCGCGCTCTGTGATTGCACCG[CA]GAGCGCCTGAGGTGATCTCGGCCTACATCGCGTCAGCGG			
11222	IS	[CA]		GGCCTTGGGCGTGAGCACCGC		ctg19247	7
11225	I		A	CCAGCTCTCCAAGGAGCTGGCGGT			
11225	P	G	A	ATGACGTGGCAGACGAAACCGCTGCAATCAY			
11225	P	A	A	CGCGCCGAGGAAAACCGCTGCAATCAY			
11225	T	G	A	GCTCTGATTGCAGCGGTTTCCCGCCAGCTCCTTGGAGAGCTGGCA			
11225	T	A	A	GCTCTGATTGCAGCGGTTTTCCGCCAGCTCCTTGGAGAGCTGGCA			
				GCCATTCACAGCTCCTGCTGTGGGGCTGGGTCATCTGCCAGCTCTCCAAGGAGCTGGCGG[GA]AAACCGCTGCAATCAGAGCGAACCCAGGGCCCGGGTGAGC			
11225	IS	[GA]		CCGCCTCGGCACAGCACTCC		MULTIPLE	MULTIPLE
11227	I		A	GCCCGGGTGAGCCCGCCTCT			
11227	P	G	A	ATGACGTGGCAGACGGCACAGCACTCCAY			
11227	P	C	A	CGCGCCGAGGCGCACAGCACTCCAY			
11227	T	G	A	CAGCTGGAGTGCTGTGCCGAGGCGGGCTCACCCGGGCCC			
11227	T	C	A	CAGCTGGAGTGCTGTGCGGAGGCGGGCTCACCCGGGCCC			
				AGGAGCTGGCGGGAAACCGCTGCAATCAGAGCGAACCCAGGGCCCGGGTGAGCCCGCCTC[GC]GCACAGCACTCCAGCTGCCCCAGTGCCTTTTGGGGACAC			
11227	IS	[GC]		ATCTGCTTTGCCAGGCAGGG		MULTIPLE	MULTIPLE
11232	I		S	TGGTGACGTGTTGCTCTATGCTTGGGTGAGTAA			
11232	P	G	S	ATGACGTGGCAGACCGCTGGTGACATGTTGY			
11232	P	A	S	CGCGCCGAGGTGCTGGTGACATGTTGY			
11232	T	G	S	ACAGCAACATGTCACCAGCGTACTCACCCAAGCATAGAGCAACACGTCACCAGT			
11232	T	A	S	ACAGCAACATGTCACCAGCATACTCACCCAAGCATAGAGCAACACGTCACCAGT			
				AAGCATACAGCAACGTGTCACCAGCGTACTCACCCAAGAATACAGCAACATGTCACCAGC[GA]TACTCACCCAAGCATAGAGCAACACGTCACCAGTGTACACGCC			
11232	IS	[GA]		CAAGAATACAGCAACAC		ctg832	11
11234	I		S	CACTGGTGACATGTTGCTGTATCCTTGGGTGAGTAA			
11234	P	G	S	ATGACGTGGCAGACCGCTGGTGACATGTTGY			
11234	P	A	S	CGCGCCGAGGTGCTGGTGACATGTTGY			
11234	T	G	S	ACAGCAACATGTCACCAGCGTACTCACCCAAGGATACAGCAACATGTCACCAGTGTA			
11234	T	A	S	ACAGCAACATGTCACCAGCATACTCACCCAAGGATACAGCAACATGTCACCAGTGTA			
				AAGAATACAGCAACACGTCACCAGTGTACTCACCCAAGAATACAGCAACATGTCACCAGC[GA]TACTCACCCAAGGATACAGCAACATGTCACCAGTGTACTCACC			
11234	IS	[GA]		CAAGAATATAGCATCAT		ctg832	11
11236	I		S	TGTTGACCTGCAAGGCAGAGGAAGAAATGTTTTGAAACATAA			
11236	P	A	S	CGCGCCGAGGTTAATATGAGGGACAAAACACCY			
11236	P	G	S	ATGACGTGGCAGACCTAATATGAGGGACAAAACACY			
11236	T	A	S	TCTTGGTGTTTTGTCCCTCATATTAATATGTTTCAAAACATTTCTTCCTCTGCCTTGCAGGTCAACATG			
11236	T	G	S	TCTTGGTGTTTTGTCCCTCATATTAGTATGTTTCAAAACATTTCTTCCTCTGCCTTGCAGGTCAACATG			
				CCATCACCTGCAGCATGAGGTGCAGCTTGTGTTGGTCTTGGTGTTTTGTCCCTCATATTA[AG]TATGTTTCAAAACATTTCTTCCTCTGCCTTGCAGGTCAACATGG			
11236	IS	[AG]		CTGAACAGGAGCCTCG		ctg832	11
11239	I		A	GTCACAGAGGGTGCGCCCCTTT			
11239	P	G	A	ATGACGTGGCAGACGTGAAATTATTCGTTATAATTTTGTGGY			
11239	P	C	A	CGCGCCGAGGCTGAAATTATTCGTTATAATTTTGTGGY			
11239	T	G	A	CATCCCACAAAATTATAACGAATAATTTCACAAGGGGCGCACCCTCTGTGACAT			
11239	T	C	A	CATCCCACAAAATTATAACGAATAATTTCAGAAGGGGCGCACCCTCTGTGACAT			
				GATCTTGTCGTCATATTCTAGGGACATGTTACTTTTAATGTCACAGAGGGTGCGCCCCTT[GC]TGAAATTATTCGTTATAATTTTGTGGGATGTTACCTCTAATGTC			
11239	IS	[GC]		ACACGGCGTGTACACA		ctg45	8
11251	I		A	GCTCTTCTTTCTGGTCGTTTTGACTTTTTTTTCTCCTTTCCTGGT			
11251	P	G	A	ATGACGTGGCAGACGTGATCTGCACTTCACTGY			
11251	P	A	A	CGCGCCGAGGATGATCTGCACTTCACTGY			
11251	T	G	A	ATTACAGTGAAGTGCAGATCACCCAGGAAAGGAGAAAAAAAGTCAAAACGACCAGAAAGAAGAGCCA			
11251	T	A	A	ATTACAGTGAAGTGCAGATCATCCAGGAAAGGAGAAAAAAAGTCAAAACGACCAGAAAGAAGAGCCA			
				TTATGGTATGTAGTGTGGCTCTTCTTTCTGGTCGTTTTGACTTTTTTTCTCCTTTCCTGG[GA]TGATCTGCACTTCACTGTAATATTCTAGGAGTGGATTTCTCAATT			
11251	IS	[GA]		TTTATCATTCCTTGG		MULTIPLE	MULTIPLE
11263	I		A	TGAACTGACAGCTGGCAGCCAGATCCCT			
11263	P	G	A	ATGACGTGGCAGACGCCCACACATGTGTTTY			
11263	P	A	A	CGCGCCGAGGACCCACACATGTGTTTTY			
11263	T	G	A	AAACAAAACACATGTGTGGGCGGGATCTGGCTGCCAGCTGTCAGTTCACA			
11263	T	A	A	AAACAAAACACATGTGTGGGTGGGATCTGGCTGCCAGCTGTCAGTTCACA			
				GCTGCTCGCAGAGGAACTTTAAAAGGCAGGCTGTGAACTGACAGCTGGCAGCCAGATCCC[GA]CCCACACATGTGTTTTGTTTGGCTTGCGAAGTGTTTTTAAAAT			
11263	IS	[GA]		TTTAAGCCAACAGTAAA		ctg16291	9
11271	I		A	ACACGAGTAAGACGTGCTTTATTGTACATATTAGAAAGTAAGTGATGAGTATCCAAT			
11271	P	G	A	ATGACGTGGCAGACGTTAAGCAATGCACATAACAGY			
11271	P	A	A	CGCGCCGAGGATTAAGCAATGCACATAACAGY			
11271	T	G	A	TTAGCTGTTATGTGCATTGCTTAACTTGGATACTCATCACTTACTTTCTAATATGTACAATAAAGCACGTCTTACTCGTGTGT			
11271	T	A	A	TTAGCTGTTATGTGCATTGCTTAATTTGGATACTCATCACTTACTTTCTAATATGTACAATAAAGCACGTCTTACTCGTGTGT			
				ACACACACGAGTAAGACGTGCTTTATTGTACATATTAGAAAGTAAGTGATGAGTATCCAA[GA]TTAAGCAATGCACATAACAGCTAAATAAATAAAAGTTGATAGGCT			
11271	IS	[GA]		GAATATTCAATACTG		ctg25099	7
11276	I		S	CTCTCAGGGATGAGGTCACATGAAGCAAGTTCTCAAAAC			
11276	P	C	S	ATGACGTGGCAGACGACTGTTCTATAAACCAAAACCY			
11276	P	A	S	CGCGCCGAGGTACTGTTCTATAAACCAAAACCAY			
11276	T	C	S	ATCTTGGTTTTGGTTTATAGAACAGTCTTTTGAGAACTTGCTTCATGTGACCTCATCCCTGAGAGAC			
11276	T	A	S	ATCTTGGTTTTGGTTTATAGAACAGTATTTTGAGAACTTGCTTCATGTGACCTCATCCCTGAGAGAC			
				CATCTATTTAACAACTGTCCAGACTTGATAAGCTATCTTGGTTTTGGTTTATAGAACAGT[CA]TTTTGAGAACTTGCTTCATGTGACCTCATCCCTGAGAGACTGAGC			
11276	IS	[CA]		CACTCTCAATGTAAA		ctg13740	5
11281	I		A	GGGCTGAGGCACGGGCCCCT			
11281	P	C	A	ATGACGTGGCAGACCCACGTGTGCCGGY			
11281	P	A	A	CGCGCCGAGGACACGTGTGCCGGY			
11281	T	C	A	TGGGCCGGCACACGTGGGGGGCCCGTGCCTCAGCCCAC			
11281	T	A	A	TGGGCCGGCACACGTGTGGGGCCCGTGCCTCAGCCCAC			
				CCTCAGCGGCGGCCTTGTGTTTCAGAGCAGCCGAGTATCGTGGGCTGAGGCACGGGCCCC[CA]CACGTGTGCCGGCCATCACCGTGGCCTTGCTGATGCGCC			
11281	IS	[CA]		TCCTGCAGCAGCTGACGGGC			
11283	I		S	CAAAGGACTGCGGGGCCCTCTTGGT			
11283	P	G	S	ATGACGTGGCAGACCGTCAAGGTCCGCTY			
11283	P	T	S	CGCGCCGAGGAGTCAAGGTCCGCTCY			
11283	T	G	S	CATGGAGCGGACCTTGACGCCAAGAGGGCCCCGCAGTCCTTTGCC			
11283	T	T	S	CATGGAGCGGACCTTGACTCCAAGAGGGCCCCGCAGTCCTTTGCC			

FIGURE 129B

				CTCTCGAGTCCTCCCATGTGGCCAGCTGTCCCACGGTGTTCCCATGGAGCGGACCTTGAC[GT]CCAAGAGGGCCCCGCAGTCCTTTGCCCTTTGCAGCATCTCA			
11283	IS	[GT]		GAATTCTGTCGTTGTGAGT	ctg16114	X	
11285	I		S	TGTGGCCAAGGCCTGTACCAAGTCCTGT			
11285	P	C	S	ATGACGTGGCAGACGATATGATGGACCTCCAAAGY			
11285	P	T	S	CGCGCCGAGGAATATGATGGACCTCCAAAGY			
11285	T	C	S	ATCACTTTGGAGGTCCATCATATCCAGGACTTGGTACAGGCCTTGGCCACAGT			
11285	T	T	S	ATCACTTTGGAGGTCCATCATATTCAGGACTTGGTACAGGCCTTGGCCACAGT			
				TGTATTGCACACAACATGAGCCACTAAACTAACACTGATCACTTTGGAGGTCCATCATAT[CT]CAGGACTTGGTACAGGCCTTGGCCACAGTGTAAGCCATCATTCT			
11285	IS	[CT]		GCCTTCTGGTGCTGAC	ctg832	11	
11286	I		S	GAGGGCAGGCATCAGTATAAAAAGCTCCCCAGT			
11286	P	T	S	CGCGCCGAGGATGACTCTGTGCAGCCY			
11286	P	C	S	ATGACGTGGCAGACGTGACTCTGTGCAGCY			
11286	T	T	S	CCTCGGCTGCACAGAGTCATCTGGGGAGCTTTTTATACTGATGCCTGCCCTCCT			
11286	T	C	S	CCTCGGCTGCACAGAGTCACCTGGGGAGCTTTTTATACTGATGCCTGCCCTCCT			
				AGGCTAGAAGGGCCAGAGGCGCCAGGAGCAGCAGCTCTCAACCTCGGCTGCACAGAGTCA[TC]CTGGGGAGCTTTTTATACTGATGCCTGCCCTCCTCCCAAGA			
11286	IS	[TC]		GATTCACCTTCAATTGGCC	ctg17004	X	
11287	I		A	GCTTTTTATACTGATGCCTGCCCTCCTCCCAAGT			
11287	P	A	A	CGCGCCGAGGAGATTCACCTTCAATTGGCY			
11287	P	G	A	ATGACGTGGCAGACGGATTCACCTTCAATTGGCY			
11287	T	A	A	CCAGGCCAATTGAAGGTGAATCTCTTGGGAGGAGGGCAGGCATCAGTATAAAAAGCTC			
11287	T	G	A	CCAGGCCAATTGAAGGTGAATCCCTTGGGAGGAGGGCAGGCATCAGTATAAAAAGCTC			
				CCTCGGCTGCACAGAGTCATCTGGGGAGCTTTTTATACTGATGCCTGCCCTCCTCCCAAG[AG]GATTCACCTTCAATTGGCCTGGCCTGAGTCCTGCAAAGAGGA			
11287	IS	[AG]		ACTTTGAAAGGATCCCAG	ctg17004	X	
11290	I		A	CAGAGCTATGAGATCATATCATTGAGAATTTTAGAGAATATGATAAAAATTGATCTTGTAA			
11290	P	T	A	CGCGCCGAGGTTGGCCATCACATGAGAY			
11290	P	C	A	ATGACGTGGCAGACCTGGCCATCACATGAGY			
11290	T	T	A	AAGCTCTCATGTGATGGCCAATACAAGATCAATTTTTATCATATTCTCTAAAATTCTCAATGATATGATCTCATAGCTCTG			
11290	T	C	A	AAGCTCTCATGTGATGGCCAGTACAAGATCAATTTTTATCATATTCTCTAAAATTCTCAATGATATGATCTCATAGCTCTG			
				CAGAGCTATGAGATCATATCATTGAGAATTTTAGAGAATATGATAAAAATTGATCTTGTA[TC]TGGCCATCACATGAGAGCTTGTTGGAAAAGAATCATGGGTCTCAA			
11290	IS	[TC]		GATCAAATGAATTGG	ctg15508	17	
11300	I		A	GCCTCATGCAACATCGAAAAGTTCACACTGGAGAAAAT			
11300	P	A	A	CGCGCCGAGGACCTTTTAAGTGCAATGAATGY			
11300	P	G	A	ATGACGTGGCAGACGCCTTTTAAGTGCAATGAATY			
11300	T	A	A	CCCACATTCATTGCACTTAAAAGGTTTTTCTCCAGTGTGAACTTTTCGATGTTGCATGAGGCTT			
11300	T	G	A	CCCACATTCATTGCACTTAAAAGGCTTTTCTCCAGTGTGAACTTTTCGATGTTGCATGAGGCTT			
				GAAATTTTTTAGCCAAAGCTCAAGCCTCATGCAACATCGAAAAGTTCACACTGGAGAAAA[AG]CCTTTTAAGTGCAATGAATGTGGGAGATTCTTTAGTGAGAATTC			
11300	IS	[AG]		CAGCCTTGTTAAACAT	ctg14243	19	
11313	I		S	GCAGTGACCTTTGCTGCCAAACCCATCAGTTTTAA			
11313	P	A	S	CGCGCCGAGGTGGTACCTGCCTTCGY			
11313	P	G	S	ATGACGTGGCAGACCGGTACCTGCCTTCGY			
11313	T	A	S	AGCACGAAGGCAGGTACCATAAAACTGATGGGTTTGGCAGCAAAGGTCACTGCTC			
11313	T	G	S	AGCACGAAGGCAGGTACCGTAAAACTGATGGGTTTGGCAGCAAAGGTCACTGCTC			
				AGTTTCACTGACGTGGGGAGGTTTGGTTGAGTTTGCTAACAGAGCACGAAGGCAGGTACC[AG]TAAAACTGATGGGTTTGGCAGCAAAGGTCACTGCTCTCTTTC			
11313	IS	[AG]		CTTTTTAGCAACTGCACA	ctg17207	19	
11324	I		A	GTCCTTGTGAGTGACGTGGGGTCCCTGT			
11324	P	G	A	ATGACGTGGCAGACGAGTAAGGTTGGATGGCY			
11324	P	C	A	CGCGCCGAGGCAGTAAGGTTGGATGGCY			
11324	T	G	A	AGTGGCCATCCAACCTTACTCCAGGGACCCCACGTCACTCACAAGGACCT			
11324	T	C	A	AGTGGCCATCCAACCTTACTGCAGGGACCCCACGTCACTCACAAGGACCT			
				AATCGTGTTGAAGGTTGCAGAGCAACACCGCAGGTCCTTGTGAGTGACGTGGGGTCCCTG[GC]AGTAAGGTTGGATGGCCACTCTAGCGGAAGATAACTGAAGG			
11324	IS	[GC]		TGAAGGGTGGGCTCTGGCT	ctg16031	17	
11329	I		A	GGAGGGACCCCCCTCAGTGCCTT			
11329	P	A	A	CGCGCCGAGGATGGCACAGGCAGAY			
11329	P	C	A	ATGACGTGGCAGACCTGGCACAGGCAGAY			
11329	T	A	A	TGCCTCTGCCTGTGCCATAGGCACTGAGGGGGGTCCCTCCTT			
11329	T	C	A	TGCCTCTGCCTGTGCCAGAGGCACTGAGGGGGGTCCCTCCTT			
				TGTAACACCATTACTGTTGGAATGCTAGCTTTCCCCAAGGAGGGACCCCCCTCAGTGCCT[AC]TGGCACAGGCAGAGGCACCAGGCTCTTTGTTCAGATGTGGTC			
11329	IS	[AC]		TAAGCTGGAAATTGAAAG	ctg22fin4	22	
11333	I		S	GGAAACTTGATATTACTATAAAAAATTGAAACCCAAAATCCCTTGACATACAA			
11333	P	G	S	ATGACGTGGCAGACCTGAGGGTAACAGTAACAGY			
11333	P	A	S	CGCGCCGAGGTTGAGGGTAACAGTAACAGY			
11333	T	G	S	TTTGCTGTTACTGTTACCCTCAGTGTATGTCAAGGGATTTTGGGTTTCAATTTTTTATAGTAATATCAAGTTTCCTT			
11333	T	A	S	TTTGCTGTTACTGTTACCCTCAATGTATGTCAAGGGATTTTGGGTTTCAATTTTTTATAGTAATATCAAGTTTCCTT			
				TCTGAGCAGATGGAGGTCAAGAATTTAATTGCCTTTTATTTGCTGTTACTGTTACCCTCA[GA]TGTATGTCAAGGGATTTTGGGTTTCAATTTTTTATAGTAATATCA			
11333	IS	[GA]		AGTTTCCTTTAAAAT	ctg19247	7	
11353	I		S	TCACCTTTGGCGCCGAAGCCCCT			
11353	P	T	S	CGCGCCGAGGATGGGCAGCTTGGGY			
11353	P	C	S	ATGACGTGGCAGACGTGGGCAGCTTGGY			
11353	T	T	S	TTTCCCCAAGCTGCCCATGGGGCTTCGGCGCCAAAGGTGACC			
11353	T	C	S	TTTCCCCAAGCTGCCCACGGGGCTTCGGCGCCAAAGGTGACC			
				TTGTGTCGTTTGTGAAAGTTCTTAACCTGCCCAAAAACCCCCTTTTCCCCAAGCTGCCCA[TC]GGGGCTTCGGCGCCAAAGGTGACCCGCGCCAACCTCCCTCCC			
11353	IS	[TC]		CCCCAGTGCCTATGACGG			
11356	I		A	CCCTCATCGTGCCCCAGGTTCAGAATCATT			
11356	P	A	A	CGCGCCGAGGAGTAGAGGGAAGGCGY			
11356	P	G	A	ATGACGTGGCAGACGGTAGAGGGAAGGCGY			
11356	T	A	A	GCACCGCCTTCCCTCTACTATGATTCTGAACCTGGGGCACGATGAGGGCA			
11356	T	G	A	GCACCGCCTTCCCTCTACCATGATTCTGAACCTGGGGCACGATGAGGGCA			
				TTCCCCACAGGGAAATGACCGCATGCTGGTGCCCTCATCGTGCCCCAGGTTCAGAATCAT[AG]GTAGAGGGAAGGCGGTGCCTCTCTCCATGCAGAGCCTGCTT			
11356	IS	[AG]		CCCCTCCTGTCCACCAATA	ctg17403	17	
11363	I		A	GCTCTTTTCATTGCCTTCTGGGGATAGGAAGAGGAAAGATAAA			
11363	P	C	A	ATGACGTGGCAGACCGCTGAAGGCAGTTCY			
11363	P	T	A	CGCGCCGAGGTGCTGAAGGCAGTTCCY			
11363	T	C	A	CCAGGGAACTGCCTTCAGCGTTATCTTTCCTCTTCCTATCCCCAGAAGGCAATGAAAAGAGCTG			
11363	T	T	A	CCAGGGAACTGCCTTCAGCATTATCTTTCCTCTTCCTATCCCCAGAAGGCAATGAAAAGAGCTG			
				GCTTGTGCCTCATAGCCAGCTCTTTTCATTGCCTTCTGGGGATAGGAAGAGGAAAGATAA[CT]GCTGAAGGCAGTTCCCTGGCAATGCTGGGAGGTTGGAATAGA			
11363	IS	[CT]		CCAGAGCGTCCCACACCT	ctg15944	11	
11364	I		S	GCTTGCTTTTGGGACTATTGCAGTAATCCTCCCCA			
11364	P	A	S	CGCGCCGAGGTGAAGAGGTGCTCGACY			
11364	P	G	S	ATGACGTGGCAGACCGAAGAGGTGCTCGAY			
11364	T	A	S	GTGAGTCGAGCACCTCTTCAGGGGAGGATTACTGCAATAGTCCCAAAAGCAAGCTG			
11364	T	G	S	GTGAGTCGAGCACCTCTTCGGGGGAGGATTACTGCAATAGTCCCAAAAGCAAGCTG			
				CCCGCCATCCCTGGGCCCTCAGTATCACCCGAGGAGCAACAGTGAGTCGAGCACCTCTTC[AG]GGGGAGGATTACTGCAATAGTCCCAAAAGCAAGCTGCCTCC			
11364	IS	[AG]		ATGGAACCCCCAGGTGTTT	ctg15944	11	CD6
11365	I		A	GGGCCCAGGACTTCTCAGAGCCTCTT			
11365	P	G	A	ATGACGTGGCAGACGCAGCACTAATGCCTGY			
11365	P	A	A	CGCGCCGAGGACAGCACTAATGCCTGTY			
11365	T	G	A	AATCACAGGCATTAGTGCTGCAGAGGCTCTGAGAAGTCCTGGGCCCCA			
11365	T	A	A	AATCACAGGCATTAGTGCTGTAGAGGCTCTGAGAAGTCCTGGGCCCCA			

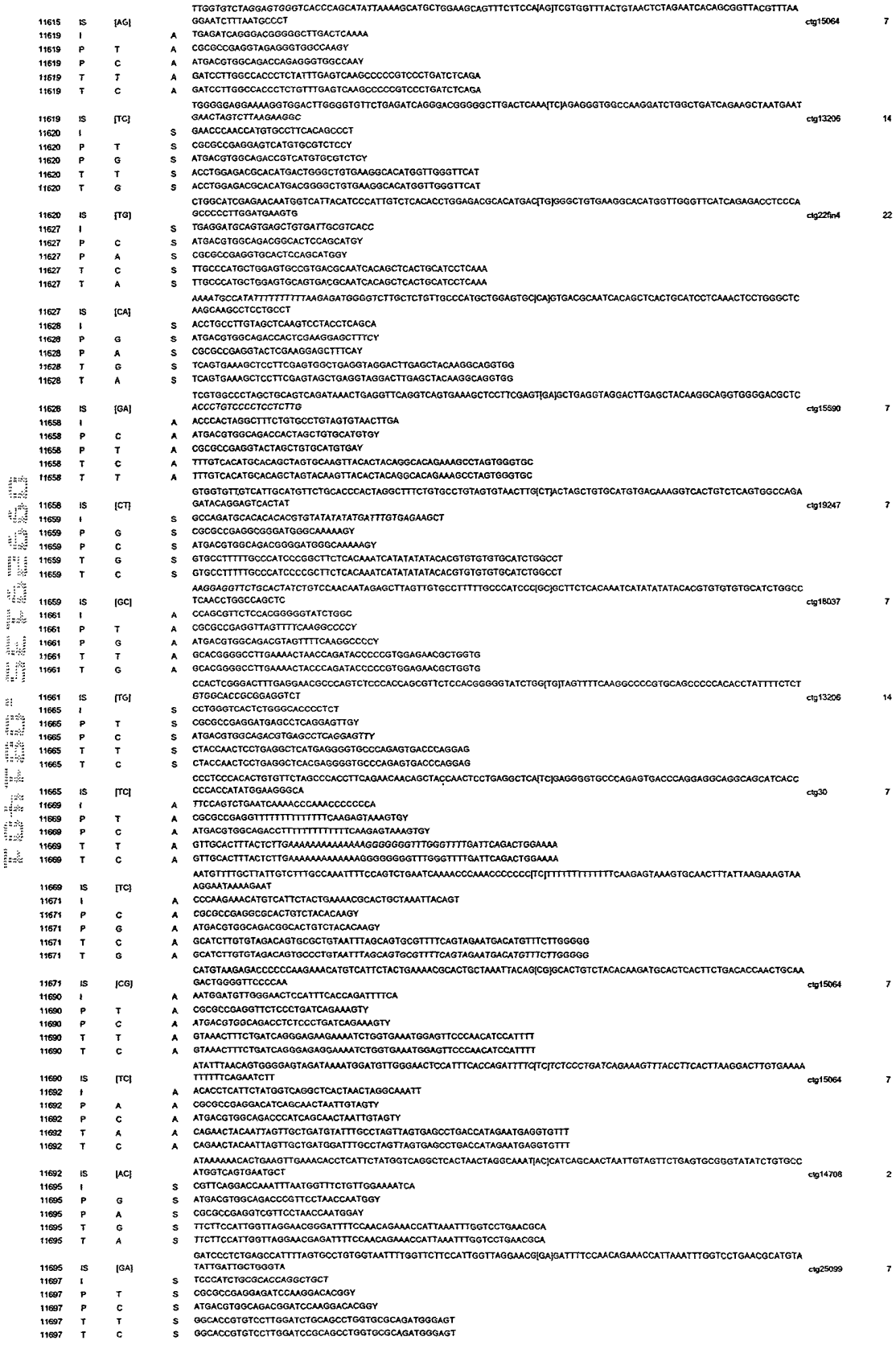
FIGURE 129B

				AAGGTTTGGGGAGAGCTGCCGAGGAAAGGGAGATGGGGCCCAGGACTTCTCAGAGCCTCT[GA]CAGCACTAATGCCTGTGATTAAACCCCAAGCTGGCGAGTAA		
11365	IS	[GA]		TTCCGCCACCTTTCCAAAA	ctg832	11
11369	I		A	GCTGGAGGGGTCCGTTCTCCCTCCA		
11369	P	C	A	ATGACGTGGCAGACCAGGGTGAATTCCTGCY		
11369	P	T	A	CGCGCCGAGGTAGGGTGAATTCCTGCCY		
11369	T	C	A	ACAAGGCAGGAATTCACCCTGGGAGGGAGAACGGACCCCTCCAGCTC		
11369	T	T	A	ACAAGGCAGGAATTCACCCTAGGAGGGAGAACGGACCCCTCCAGCTC		
				TGTTCCCAGGTTCCTGCCTCTGTGCCTGGGTCCTGAGCTGGAGGGGTCCGTTCTCCCTCC[CT]AGGGTGAATTCCTGCCTTGTTTCTCCCGAGTGAGTTAGTGTG		
11369	IS	[CT]		ACGCGTTGGCCCGTGTGT	ctg832	11
11371	I		S	TGATAACTGGCACTTATCATGTGCCAGTCATCATAAAAAACACGTTAA		
11371	P	G	S	ATGACGTGGCAGACCATAGCTGTCCATTTTATAAATGAY		
11371	P	A	S	CGCGCCGAGGTATAGCTGTCCATTTTATAAATGAGY		
11371	T	G	S	TTTCCTCATTTATAAAATGGACAGCTATGTAACGTGTTTTTTATGATGACTGGCACATGATAAGTGCCAGTTATCATA		
11371	T	A	S	TTTCCTCATTTATAAAATGGACAGCTATATAACGTGTTTTTTATGATGACTGGCACATGATAAGTGCCAGTTATCATA		
				AATCCTGGGCAAGTTACCCCTCTGAGCCTCAGTTTCCTCATTTATAAAATGGACAGCTAT[GA]TAACGTGTTTTTTATGATGACTGGCACATGATAAGTGCCAGTTA		
11371	IS	[GA]		TCATAATTATATTAAG	ctg25002	17
11372	I		A	GCCACCACATGCAGAACCCCCCACT		
11372	P	G	A	ATGACGTGGCAGACGGTGTCCAGGGCCY		
11372	P	A	A	CGCGCCGAGGAGTGTCCAGGGCCTY		
11372	T	G	A	AGGAAGGCCCTGGACACCGTGGGGGGTTCTGCATGTGGTGGCCG		
11372	T	A	A	AGGAAGGCCCTGGACACTGTGGGGGGTTCTGCATGTGGTGGCCG		
				GGGGGTTGGTGGCAGCATAGACGCATGGCAGCAGCGGCCACCACATGCAGAACCCCCCAC[GA]GTGTCCAGGGCCTTCCTGAGCTGCTTAGTGAATCCTGTACC		
11372	IS	[GA]		AGCCTGAGAGGAGCACAGT	ctg25002	17
11373	I		A	TGGGTGCACGGGGGCTGGGA		
11373	P	C	A	ATGACGTGGCAGACCGGAGGAAGCAGGGY		
11373	P	T	A	CGCGCCGAGGTGGAGGAAGCAGGGY		
11373	T	C	A	ATGACCCTGCTTCCTCCGCCCAGCCCCCGTGCACCCATA		
11373	T	T	A	ATGACCCTGCTTCCTCCACCCAGCCCCCGTGCACCCATA		
				ATCCCAGGGCCCTGTGGCCACAGTCTGAGGCCCAGCGGCTATGGGTGCACGGGGGCTGGG[CT]GGAGGAAGCAGGGTCATGTGCCTGACCAGCGCCCCCTCC		
11373	IS	[CT]		*CTCTGTTGCAGCTTCACGTGG*	ctg25002	17
11385	I		S	GCCTCCTCCATCAGACTGGGGGCCT		
11385	P	G	S	CGCGCCGAGGCTTTAAGAGCTCCCATCAGY		
11385	P	C	S	ATGACGTGGCAGACGTTTAAGAGCTCCCATCAGY		
11385	T	G	S	CAGTCTGATGGGAGCTCTTAAAGGGCCCCCAGTCTGATGGAGGAGGCCC		
11385	T	C	S	CAGTCTGATGGGAGCTCTTAAACGGCCCCCAGTCTGATGGAGGAGGCCC		
				CCAGTTTAATGGGAGTGTTCAAATCTCTTTGAGGTCTCCAGTCTGATGGGAGCTCTTAAA[GC]GGCCCCCAGTCTGATGGAGGAGGCCCTTTAATGGCCCCCAAG		
11385	IS	[GC]		TCTGAGGGTGGAGGCCCT	ctg17207	19
11388	I		A	CTCACATCTGCCACCCTCCCTCCCTGA		
11388	P	T	A	CGCGCCGAGGTAGGCCAGCTGACTATGY		
11388	P	C	A	ATGACGTGGCAGACCAGGCCAGCTGACTAY		
11388	T	T	A	CGATCATAGTCAGCTGGCCTACAGGGAGGGAGGGTGGCAGATGTGAGTG		
11388	T	C	A	CGATCATAGTCAGCTGGCCTGCAGGGAGGGAGGGTGGCAGATGTGAGTG		
				CTGGGTAATGGTTGTTCAGACTCCCCCGGCCCCACTCACATCTGCCACCCTCCCTCCCTG[TC]AGGCCAGCTGACTATGATCGTGGGGCAGGTGGGCTGCGGCA		
11388	IS	[TC]		AGTCCTCGCTCCTTCTAGC	ctg2846	11
11389	I		S	ACTGTGGATAGGGACCCAATCATTGGGTCTGGT		
11389	P	T	S	CGCGCCGAGGAATAAGTAGGCGGCAAGY		
11389	P	G	S	ATGACGTGGCAGACCATAAGTAGGCGGCAAGY		
11389	T	T	S	TGCACTTGCCGCCTACTTATTCCAGACCCAATGATTGGGTCCCTATCCACAGTTT		
11389	T	G	S	TGCACTTGCCGCCTACTTATGCCAGACCCAATGATTGGGTCCCTATCCACAGTTT		
				CACTGATTCCATCTATTCTTTTTTTTTCTTTTTCCTCAAATGCACTTGCCGCCTACTTAT[TG]CCAGACCCAATGATTGGGTCCCTATCCACAGTTTGGAAAACACTA		
11389	IS	[TG]		TAAGAAATGATTGTG		
11486	I		A	GCCAAGGTGGTGAAATCCCGTCTCTGCTAAAAT		
11486	P	A	A	CGCGCCGAGGATACGAAAATTAGCTGAGTGTY		
11486	P	G	A	ATGACGTGGCAGACGTACGAAAATTAGCTGAGTGTY		
11486	T	A	A	CACAACACTCAGCTAATTTTCGTATTTTTAGCAGAGACGGGATTTCACCACCTTGGCCA		
11486	T	G	A	CACAACACTCAGCTAATTTTCGTACTTTTAGCAGAGACGGGATTTCACCACCTTGGCCA		
				ACAAGATCAGGAGTTCGAGGCCAGCCTGGCCAAGGTGGTGAAATCCCGTCTCTGCTAAAA[AG]TACGAAAATTAGCTGAGTGTTGTGCCGGCTGCCTGTAATCCC		
11486	IS	[AG]		AGCTACTCGAGAGGCTGA	ctg3461	17
11492	I		S	GGAAAAGATGTGTCAGTATCTTTATTTCAGGGACGAGTCATAAACCAT		
11492	P	T	S	CGCGCCGAGGAGCAGATTTCTACCTCAGAY		
11492	P	C	S	ATGACGTGGCAGACGGCAGATTTCTACCTCAGY		
11492	T	T	S	*CATTTCTGAGGTAGAAATCTGCTTGGTTTATGACTCGTCCCTGAAATAAAGATACTGACACATCTTTTCCTG*		
11492	T	C	S	CATTTCTGAGGTAGAAATCTGCCTGGTTTATGACTCGTCCCTGAAATAAAGATACTGACACATCTTTTCCTG		
				CATTTTAAAGATTCAGCGTTTTCTCCTTTGAGAAGGGTCATTTCTGAGGTAGAAATCTGC[TC]TGGTTTATGACTCGTCCCTGAAATAAAGATACTGACACATCTTTT		
11492	IS	[TC]		CCTGATAGAAATCAG	ctg15140	12
11497	I		A	CTGCTTCAGCTACACACAAGTTTCCCACACACACT		
11497	P	G	A	ATGACGTGGCAGACGGCACCCATTCGTGY		
11497	P	A	A	CGCGCCGAGGAGCACCCATTCGTGAY		
11497	T	G	A	GGAGTCACGAATGGGTGCCGTGTGTGTGGGAAACTTGTGTGTAGCTGAAGCAGAG		
11497	T	A	A	GGAGTCACGAATGGGTGCTGTGTGTGTGGGAAACT*TGTGTGTAGCT*GAAGCAGAG		
				GGTTGTGACATCTCTCCATGCACTCTCTGCTTCAGCTACACACAAGTTTCCCACACACAC[GA]GCACCCATTCGTGACTCCAAGCCTTTGCCCAGTCTGTGCCTTC		
11497	IS	[GA]		AGCCTGCTCTGCCCTTT	ctg15944	11
11501	I		A	ACAGCAGCCATACCGGGGACATGGAC		
11501	P	T	A	CGCGCCGAGGTTTCAAATCTGCAAGCCCY		
11501	P	G	A	*ATGACGTGGCAGACGTTCAAATCTGCAAGCCY*		
11501	T	T	A	GGAAGGGCTTGCAGATTTGAAATCCATGTCCCCGGTATGGCTGCTGTCA		
11501	T	G	A	GGAAGGGCTTGCAGATTTGAACTCCATGTCCCCGGTATGGCTGCTGTCA		
				ACGTTGCTGGTGTGTGGGCTGCTTCTTGGAGAATGACAGCAGCCATACCGGGGACATGGA*[TG]TTCAAATCTGCAAGCCCTTCCCAACTGAGTACGTCCCAGCAA*		
11501	IS	[TG]		AGGGCCCTCGACCCCATC	ctg15944	11
11504	I		A	GGCCAGTACTCCCTGGTCCTGAGAACACTTA		
11504	P	T	A	CGCGCCGAGGTGGTGCCTCCTCACY		
11504	P	C	A	ATGACGTGGCAGACCGGTGCCTCCTCACY		
11504	T	T	A	CCAAGTGAGGAGGCACCAAAGTGTTCTCAGGACCAGGGAGTACTGGCCTC		
11504	T	C	A	CCAAGTGAGGAGGCACCGAAGTGTTCTCAGGACCAGGGAGTACTGGCCTC		
				CAGCTCCTCCTTATTCTGGGCCAACTCCGAGGCCAGTACTCCCTGGTCCTGAGAACACTT[TC]GGTGCCTCCTCACTTGGCTTCGGCTGACATCGTGGGGATTCA		
11504	IS	[TC]		GGACTGTACTCTGGCTGT	ctg15944	11
11508	I		A	TGACTCCAAACATACACAAAGAATAGCTACTTTTGTCCTTTTTA		
11508	P	T	A	CGCGCCGAGGTGTTCTGACTTCCTTAATCTTAAY		
11508	P	C	A	ATGACGTGGCAGACCGTTCTGACTTCCTTAATCTTY		
11508	T	T	A	ACGTTTAAGATTAAGGAAGTCAGAACAAAAAAGGACAAAAGTAGCTATTCTTTGTGTATGTTTGGAGTCAAA		
11508	T	C	A	ACGTTTAAGATTAAGGAAGTCAGAACGAAAAAGGACAAAAGTAGCTATTCTTTGTGTATGTTTGGAGTCAAA		
				AACTGGTATGATTTCTTTGACTCCAAACATACACAAAGAATAGCTACTTTTGTCCTTTTT[TC]GTTCTGACTTCCTTAATCTTAAACGTTGCCAGATACATTGTGACCA		
11508	IS	[TC]		CCATGCTAAAAAAG	ctg15064	7
11517	I		A	GGCTAAAAGAAAAGCATAAAGCTGTTATAACAAATTCAAACGTCTAATTAT		
11517	P	C	A	CGCGCCGAGGCTCTATAATTTAGAAGCTAACCTAACY		
11517	P	G	A	ATGACGTGGCAGACGTCTATAATTTAGAAGCTAACCTAACY		
11517	T	C	A	AAATGTTAGGTTAGCTTCTAAATTATAGAGTAATTAGACGTTTGAATTTGTTATAACAGCTTTATGC*TTTTCTTTT*AGCCAT		
11517	T	G	A	AAATGTTAGGTTAGCTTCTAAATTATAGACTAATTAGACGTTTGAATTTGTTATAACAGCTTTATGCTTTTCTTTTAGCCAT		

FIGURE 129B

				GACAAGTAATGGCTAAAAGAAAAGCATAAAGCTGTTATAACAAATTCAAACGTCTAATTA[CG]TCTATAATTTAGAAGCTAACCTAACATTTGGTTAAGCAGTCAGAG			
11517	IS	[CG]		AAAGCCTCTTGTAGT	ctg15064	7	
11531	I		A	TGCGGCGGCCCGCAACAGAA			
11531	P	T	A	CGCGCCGAGGTGGGATCCGGAAGATGY			
11531	P	C	A	ATGACGTGGCAGACCGGGATCCGGAAGATY			
11531	T	T	A	TTACCATCTTCCGGATCCCATCTGTTGCGGGCCGCCGCAAG			
11531	T	C	A	TTACCATCTTCCGGATCCCGTCTGTTGCGGGCCGCCGCAAG			
				GGAGACCACGATCAGGTGGGAGGAGCAGGTGGAGAAGGCCTTGCGGCGGCCCGCAACAGA[TC]GGGATCCGGAAGATGGTAACGAGGATACGCCCGTAGGAG			
11531	IS	[TC]		CCCAGGATGAGGCCAAAGGGG	ctg15907	6	OR10C1
11533	I		S	GGGGCTGGGCCACACCCCTTTT			
11533	P	G	S	ATGACGTGGCAGACCATCTTCTCTTGCCCTTY			
11533	P	T	S	CGCGCCGAGGAATCTTCTCTTTGCCCTTCY			
11533	T	G	S	CGCAGAAGGGCAAAGAGAAGATGAAAGGGGTGTGGCCCAGCCCCAC			
11533	T	T	S	CGCAGAAGGGCAAAGAGAAGATTAAAGGGGTGTGGCCCAGCCCCAC			
				CTGGATCTCACAGAAGAACTGCGGGATGGTATTGGGGCCGCAGAAGGGCAAAGAGAAGAT[GT]AAAGGGGTGTGGCCCAGCCCCACCAGCACCCCACAGGCCC			
11533	IS	[GT]		ACGCCGACCCAGCTAGCTGT	ctg15907	6	OR10C1
11569	I		A	GGTTGGCAGCCTCTGGGGCACAATT			
11569	P	G	A	ATGACGTGGCAGACGTCATGGCTCCATGAGY			
11569	P	A	A	CGCGCCGAGGATCATGGCTCCATGAGCY			
11569	T	G	A	TAGGGCTCATGGAGCCATGACATTGTGCCCCAGAGGCTGCCAACCCA			
11569	T	A	A	TAGGGCTCATGGAGCCATGATATTGTGCCCCAGAGGCTGCCAACCCA			
				AGAGCCTTCTTGCTTAACAAGCTAAAGAACCATCTGGGTTGGCAGCCTCTGGGGCACAAT[GA]TCATGGCTCCATGAGCCCTACTTCCCTGACTCCTTCTGGTTAT			
11569	IS	[GA]		CTTGTTTCCTTTTCCTG	ctg13206	14	
11571	I		A	CCAGTGCAGCGACACTCCCCTTTTGTCTAC			
11571	P	T	A	CGCGCCGAGGTAGCTATCCTTAGTCAAGCCY			
11571	P	G	A	ATGACGTGGCAGACGAGCTATCCTTAGTCAAGCY			
11571	T	T	A	CCCTGGCTTGACTAAGGATAGCTATAGACAAAAGGGGAGTGTCGCTGCACTGGGT			
11571	T	G	A	CCCTGGCTTGACTAAGGATAGCTCTAGACAAAAGGGGAGTGTCGCTGCACTGGGT			
				GTGCTTGCTTCTGTGGATGACCTCTTCCCACCCAGTGCAGCGACACTCCCCTTTTGTCTA[TG]AGCTATCCTTAGTCAAGCCAGGGCTGCGGGACCCTAACCCAC			
11571	IS	[TG]		ACTTCCGCTGTGTTTCTG	ctg13206	14	
11581	I		S	GAGAATAACTCCTAAATAAATAGTATAAAATGAAATGACATCAAATGTATAAATTAAAGTT			
11581	P	C	S	ATGACGTGGCAGACGTAAGCTAAAGTAATCCGGATY			
11581	P	G	S	CGCGCCGAGGCTAAGCTAAAGTAATCCGGATTY			
11581	T	C	S	GGTAAATCCGGATTACTTTAGCTTACACTTTAATTTATACATTTGATGTCATTTCATTTTATACTATTTATTTAGGAGTTATTCTC			
11581	T	G	S	GGTAAATCCGGATTACTTTAGCTTAGACTTTAATTTATACATTTGATGTCATTTCATTTTATACTATTTATTTAGGAGTTATTCTC			
				AATTCTTCAAAGTACTACCTACAATTTAAGTCATTGGTAAATCCGGATTACTTTAGCTTA[CG]ACTTTAATTTATACATTTGATGTCATTTCATTTTATACTATTTATTT			
11581	IS	[CG]		AGGAGTTATTCTC	ctg25099	7	
11582	I		S	GGCCCAGGCCAAGTGAGGGACTCTAT			
11582	P	C	S	ATGACGTGGCAGACGGCTAGTTTTCTGACTCGY			
11582	P	G	S	CGCGCCGAGGCGCTAGTTTTCTGACTCGY			
11582	T	C	S	GGTGCGAGTCAGAAAACTAGCCTAGAGTCCCTCACTTGGCCTGGGCCAC			
11582	T	G	S	GGTGCGAGTCAGAAAACTAGCGTAGAGTCCCTCACTTGGCCTGGGCCAC			
				ACCTCCACGTGCAGCCCTTTATCTGACAATGTAGACAGAGGTGCGAGTCAGAAAACTAGC[CG]TAGAGTCCCTCACTTGGCCTGGGCCACATCGAGAAAGGCAGT			
11582	IS	[CG]		CCCCAGGGTTTGGAGGAC	ctg22fin4	22	
11591	I		S	CAAGACAAAGCCTATATAATAAGTTACCAAAGCATCTCTCAAACTAAAAATAC			
11591	P	A	S	CGCGCCGAGGTAGTTACATTTCCTTGATTTTTTTAAAY			
11591	P	T	S	ATGACGTGGCAGACAAGTTACATTTCCTTGATTTTTTTTAAY			
11591	T	A	S	CTTTTTTAAAAAAAATCAAGGAAATGTAACTATATTTTTAGTTTGAGAGATGCTTTGGTAACTTATTATATAGGCTTTGTCTTGTT			
11591	T	T	S	CTTTTTTAAAAAAAATCAAGGAAATGTAACTTTATTTTTAGTTTGAGAGATGCTTTGGTAACTTATTATATAGGCTTTGTCTTGTT			
				TTTTAAAGGCTCCTACATTGTCTGACATCCTTTTTTAAAAAAAATCAAGGAAATGTAACT[AT]TATTTTTAGTTTGAGAGATGCTTTGGTAACTTATTATATAGGCTTT			
11591	IS	[AT]		GTCTTGTTATAAGT			
11603	I		S	CTCTGTCGCTGGAGTGCAGTGTTGCAATCATA			
11603	P	A	S	CGCGCCGAGGTGCTCACTGCAACCTY			
11603	P	G	S	ATGACGTGGCAGACCGCTCACTGCAACCY			
11603	T	A	S	GCAGAGGTTGCAGTGAGCAATGATTGCAACACTGCACTCCAGCGACAGAGCT			
11603	T	G	S	GCAGAGGTTGCAGTGAGCGATGATTGCAACACTGCACTCCAGCGACAGAGCT			
				AGTCGCAGCCACTGGGGAGGCTGAGGTGCTTGAGCCCAGAAGGCAGAGGTTGCAGTGAGC[AG]ATGATTGCAACACTGCACTCCAGCGACAGAGCTAAGACTCT			
11603	IS	[AG]		GTCTCAAAAAAAAAAAAA			
11605	I		A	CACTCACTGGGGTCACAGTCATTGATGTCCTGATCT			
11605	P	G	A	ATGACGTGGCAGACGCAGGAAGGGCCAY			
11605	P	A	A	CGCGCCGAGGACAGGAAGGGCCAGY			
11605	T	G	A	TACACTGGCCCTTCCTGCGATCAGGACATCAATGACTGTGACCCCAGTGAGTGCA			
11605	T	A	A	TACACTGGCCCTTCCTGTGATCAGGACATCAATGACTGTGACCCCAGTGAGTGCA			
				AGCAGCACCCCCAAGAGCTCCCCTGCACTCACTGGGGTCACAGTCATTGATGTCCTGATC[GA]CAGGAAGGGCCAGTGTACCCTCCATGGCAGGTGCAGCTGAA			
11605	IS	[GA]		ACTCCCTGCCAGGTTGGTG	ctg18433	19	
11608	I		A	GCAAAGAACCCCAGCACAAAAGGACACACACAT			
11608	P	A	A	CGCGCCGAGGAATGTTCAGCGCACTACY			
11608	P	G	A	ATGACGTGGCAGACGATGTTCAGCGCACTACY			
11608	T	A	A	ACTGGTAGTGCGCTGAACATTTGTGTGTGTCCTTTTGTGCTGGGGTTCTTTGCGT			
11608	T	G	A	ACTGGTAGTGCGCTGAACATCTGTGTGTGTCCTTTTGTGCTGGGGTTCTTTGCGT			
				AGACCCACCTGGACATACCCATGAAGACGCAAAGAACCCCAGCACAAAAGGACACACACA[AG]ATGTTCAGCGCACTACCAGTAGGTAATCCCAGCACTTTGGGA			
11608	IS	[AG]		GGCCGAGGTGGGCAGATC	ctg18433	19	
11610	I		S	GCTGCCCGACGTGGAACCCGCA			
11610	P	A	S	CGCGCCGAGGTGCCTTCCTCGCACY			
11610	P	G	S	ATGACGTGGCAGACCGCCTTCCTCGCAY			
11610	T	A	S	AGCAGTGCGAGGAAGGCAGCGGGTTCCACGTCGGGCAGCTC			
11610	T	G	S	AGCAGTGCGAGGAAGGCGGCGGGTTCCACGTCGGGCAGCTC			
				CAGGCCCAGCTCCCCAGCAGGAAGCATCCGGAAGCATTACTTGAGCAGTGCGAGGAAGGC[AG]GCGGGTTCCACGTCGGGCAGCTCAATCTCCGTGGATGTTGT			
11610	IS	[AG]		GGCCATTCCCCCGTTGAAC	ctg_na	NA	
11611	I		S	GTGCCTGACGCCTGGAAGGAAAGAGAGAGC			
11611	P	A	S	CGCGCCGAGGTATGGTGAGGGCTGGY			
11611	P	C	S	ATGACGTGGCAGACGATGGTGAGGGCTGGY			
11611	T	A	S	TCTGCCAGCCCTCACCATACTCTCTCTTTCCTTCCAGGCGTCAGGCACGC			
11611	T	C	S	TCTGCCAGCCCTCACCATCCTCTCTCTTTCCTTCCAGGCGTCAGGCACGC			
				GCAGGGCTAGGACCATGCCCTGGGCCACACAGGGCCTCACGCTCTGCCAGCCCTCACCAT[AC]CTCTCTCTTTCCTTCCAGGCGTCAGGCACGCACTCATTCACT			
11611	IS	[AC]		CATTCCCATATGCATGCA	ctg_na	NA	
11612	I		S	TCAGCTAGCTCTGTTGGACCCTGTGGTGTA			
11612	P	G	S	ATGACGTGGCAGACCGAGTGTGTTGTGGATGY			
11612	P	A	S	CGCGCCGAGGTGAGTGTGTTGTGGATGAY			
11612	T	G	S	TCCATCATCCACAACACACTCGACACCACAGGGTCCAACAGAGCTAGCTGAAC			
11612	T	A	S	TCCATCATCCACAACACACTCAACACCACAGGGTCCAACAGAGCTAGCTGAAC			
				GTTCTCATCGACCTCAGGACTGAAACTGCTACTTGAGAATCCATCATCCACAACACACTC[GA]ACACCACAGGGTCCAACAGAGCTAGCTGAACATGGATCGGAGG			
11612	IS	[GA]		ATTTACAGATCACCATA	ctg12567	16	
11615	I		A	CCAGCATATTAAAAGCATGCTGGAAGCAGTTTCTTCCAT			
11615	P	A	A	CGCGCCGAGGATCGTGGTTTACTGTAACTCY			
11615	P	G	A	ATGACGTGGCAGACGTCGTGGTTTACTGTAACTCY			
11615	T	A	A	TCTAGAGTTACAGTAAACCACGATTGGAAGAAACTGCTTCCAGCATGCTTTTAATATGCTGGGT			
11615	T	G	A	TCTAGAGTTACAGTAAACCACGACTGGAAGAAACTGCTTCCAGCATGCTTTTAATATGCTGGGT			

FIGURE 129B



				TTGGTGTCTAGGAGTGGGTCACCCAGCATATTAAAAGCATGCTGGAAGCAGTTTCTTCCA[AG]TCGTGGTTTACTGTAACTCTAGAATCACAGCGGTTACGTTTAA			
11615	IS	[AG]		GGAATCTTTAATGCCCT	ctg15064	7	
11619	I		A	TGAGATCAGGGACGGGGGCTTGACTCAAAA			
11619	P	T	A	CGCGCCGAGGTAGAGGGTGGCCAAGY			
11619	P	C	A	ATGACGTGGCAGACCAGAGGGTGGCCAAY			
11619	T	T	A	GATCCTTGGCCACCCTCTATTTGAGTCAAGCCCCCGTCCCTGATCTCAGA			
11619	T	C	A	GATCCTTGGCCACCCTCTGTTTGAGTCAAGCCCCCGTCCCTGATCTCAGA			
				TGGGGGAGGAAAAGGTGGACTTGGGGTGTTCTGAGATCAGGGACGGGGGCTTGACTCAAA[TC]AGAGGGTGGCCAAGGATCTGGCTGATCAGAAGCTAATGAAT			
11619	IS	[TC]		GAACTAGTCTTAAGAAGGC	ctg13206	14	
11620	I		S	GAACCCAACCATGTGCCTTCACAGCCCT			
11620	P	T	S	CGCGCCGAGGAGTCATGTGCGTCTCCY			
11620	P	G	S	ATGACGTGGCAGACCGTCATGTGCGTCTCY			
11620	T	T	S	ACCTGGAGACGCACATGACTGGGCTGTGAAGGCACATGGTTGGGTTCAT			
11620	T	G	S	ACCTGGAGACGCACATGACGGGGCTGTGAAGGCACATGGTTGGGTTCAT			
				CTGGCATCGAGAACAATGGTCATTACATCCCATTGTCTCACACCTGGAGACGCACATGAC[TG]GGGCTGTGAAGGCACATGGTTGGGTTCATCAGAGACCTCCCA			
11620	IS	[TG]		GCCCCCTTGGATGAAGTG	ctg22fin4	22	
11627	I		S	TGAGGATGCAGTGAGCTGTGATTGCGTCACC			
11627	P	C	S	ATGACGTGGCAGACGGCACTCCAGCATGY			
11627	P	A	S	CGCGCCGAGGTGCACTCCAGCATGGY			
11627	T	C	S	TTGCCCATGCTGGAGTGCCGTGACGCAATCACAGCTCACTGCATCCTCAAA			
11627	T	A	S	TTGCCCATGCTGGAGTGCAGTGACGCAATCACAGCTCACTGCATCCTCAAA			
				AAAATGCCATATTTTTTTTTAAGAGATGGGGTCTTGCTCTGTTGCCCATGCTGGAGTGC[CA]GTGACGCAATCACAGCTCACTGCATCCTCAAACTCCTGGGCTC			
11627	IS	[CA]		AAGCAAGCCTCCTGCCT			
11628	I		S	ACCTGCCTTGTAGCTCAAGTCCTACCTCAGCA			
11628	P	G	S	ATGACGTGGCAGACCACTCGAAGGAGCTTTCY			
11628	P	A	S	CGCGCCGAGGTACTCGAAGGAGCTTTCAY			
11628	T	G	S	TCAGTGAAAGCTCCTTCGAGTGGCTGAGGTAGGACTTGAGCTACAAGGCAGGTGG			
11628	T	A	S	TCAGTGAAAGCTCCTTCGAGTAGCTGAGGTAGGACTTGAGCTACAAGGCAGGTGG			
				TCGTGGCCCTAGCTGCAGTCAGATAAACTGAGGTTCAGGTCAGTGAAAGCTCCTTCGAGT[GA]GCTGAGGTAGGACTTGAGCTACAAGGCAGGTGGGGACGCTC			
11628	IS	[GA]		ACCCTGTCCCCTCCTCTTG	ctg15590	7	
11658	I		A	ACCCACTAGGCTTTCTGTGCCTGTAGTGTAACTTGA			
11658	P	C	A	ATGACGTGGCAGACCACTAGCTGTGCATGTGY			
11658	P	T	A	CGCGCCGAGGTACTAGCTGTGCATGTGAY			
11658	T	C	A	TTTGTCACATGCACAGCTAGTGCAAGTTACACTACAGGCACAGAAAGCCTAGTGGGTGC			
11658	T	T	A	TTTGTCACATGCACAGCTAGTACAAGTTACACTACAGGCACAGAAAGCCTAGTGGGTGC			
				GTGGTGTTGTCATTGCATGTTCTGCACCCACTAGGCTTTCTGTGCCTGTAGTGTAACTTG[CT]ACTAGCTGTGCATGTGACAAAGGTCACTGTCTCAGTGGCCAGA			
11658	IS	[CT]		GATACAGGAGTCACTAT	ctg19247	7	
11659	I		S	GCCAGATGCACACACACGTGTATATATATGATTTGTGAGAAGCT			
11659	P	G	S	CGCGCCGAGGCGGGATGGGCAAAAAGY			
11659	P	C	S	ATGACGTGGCAGACGGGGATGGGCAAAAAGY			
11659	T	G	S	GTGCCTTTTTGCCCATCCCGGCTTCTCACAAATCATATATATACACGTGTGTGTGCATCTGGCCT			
11659	T	C	S	GTGCCTTTTTGCCCATCCCCGCTTCTCACAAATCATATATATACACGTGTGTGTGCATCTGGCCT			
				AAGGAGGTTCTGCACTATCTGTCCAACAATAGAGCTTAGTTGTGCCTTTTGCCCATCCC[GC]GCTTCTCACAAATCATATATATACACGTGTGTGTGCATCTGGCC			
11659	IS	[GC]		TCAACCTGGCCAGCTC	ctg18037	7	
11661	I		A	CCAGCGTTCTCCACGGGGGTATCTGGC			
11661	P	T	A	CGCGCCGAGGTTAGTTTTCAAGGCCCCY			
11661	P	G	A	ATGACGTGGCAGACGTAGTTTTCAAGGCCCCY			
11661	T	T	A	GCACGGGGCCTTGAAAACTAACCAGATACCCCCGTGGAGAACGCTGGTG			
11661	T	G	A	GCACGGGGCCTTGAAAACTACCCAGATACCCCCGTGGAGAACGCTGGTG			
				CCACTCGGGACTTTGAGGAACGCCCAGTCTCCCACCAGCGTTCTCCACGGGGGTATCTGG[TG]TAGTTTTCAAGGCCCCGTGCAGCCCCCACACCTATTTTCTCT			
11661	IS	[TG]		GTGGCACCGCGGAGGTCT	ctg13206	14	
11665	I		S	CCTGGGTCACTCTGGGCACCCCTCT			
11665	P	T	S	CGCGCCGAGGATGAGCCTCAGGAGTTGY			
11665	P	C	S	ATGACGTGGCAGACGTGAGCCTCAGGAGTTY			
11665	T	T	S	CTACCAACTCCTGAGGCTCATGAGGGGTGCCCAGAGTGACCCAGGAG			
11665	T	C	S	CTACCAACTCCTGAGGCTCACGAGGGGTGCCCAGAGTGACCCAGGAG			
				CCCTCCCACACTGTGTTCTAGCCCACCTTCAGAACAACAGCTACCAACTCCTGAGGCTCA[TC]GAGGGGTGCCCAGAGTGACCCAGGAGGCAGGCAGCATCACC			
11665	IS	[TC]		CCCACCATATGGAAGGGCA	ctg30	7	
11669	I		A	TTCCAGTCTGAATCAAAACCCAAACCCCCCCA			
11669	P	T	A	CGCGCCGAGGTTTTTTTTTTTTTTCAAGAGTAAAGTGY			
11669	P	C	A	ATGACGTGGCAGACCTTTTTTTTTTTTTCAAGAGTAAAGTGY			
11669	T	T	A	GTTGCACTTTACTCTTGAAAAAAAAAAAAAAGGGGGGGTTTGGGTTTTGATTCAGACTGGAAAA			
11669	T	C	A	GTTGCACTTTACTCTTGAAAAAAAAAAAAAGGGGGGGTTTGGGTTTTGATTCAGACTGGAAAA			
				AATGTTTTGCTTATTGTCTTTGCCAAATTTTCCAGTCTGAATCAAAACCCAAACCCCCCCC[TC]TTTTTTTTTTTTTCAAGAGTAAAGTGCAACTTTATTAAGAAAGTAA			
11669	IS	[TC]		AGGAATAAAAGAAT			
11671	I		A	CCCAAGAAACATGTCATTCTACTGAAAACGCACTGCTAAATTACAGT			
11671	P	C	A	CGCGCCGAGGCGCACTGTCTACACAAGY			
11671	P	G	A	ATGACGTGGCAGACGGCACTGTCTACACAAGY			
11671	T	C	A	GCATCTTGTGTAGACAGTGCGCTGTAATTTAGCAGTGCGTTTTCAGTAGAATGACATGTTTCTTGGGGG			
11671	T	G	A	GCATCTTGTGTAGACAGTGCCCTGTAATTTAGCAGTGCGTTTTCAGTAGAATGACATGTTTCTTGGGGG			
				CATGTAAGAGACCCCCCAAGAAACATGTCATTCTACTGAAAACGCACTGCTAAATTACAG[CG]GCACTGTCTACACAAGATGCACTCACTTCTGACACCAACTGCAA			
11671	IS	[CG]		GACTGGGGTTCCCCAA	ctg15064	7	
11690	I		A	AATGGATGTTGGGAACTCCATTTCACCAGATTTTCA			
11690	P	T	A	CGCGCCGAGGTTCTCCCTGATCAGAAAGTY			
11690	P	C	A	ATGACGTGGCAGACCTCTCCCTGATCAGAAAGTY			
11690	T	T	A	GTAAACTTTCTGATCAGGGAGAAGAAAATCTGGTGAAATGGAGTTCCCAACATCCATTTT			
11690	T	C	A	GTAAACTTTCTGATCAGGGAGAGGAAAATCTGGTGAAATGGAGTTCCCAACATCCATTTT			
				ATATTTAACAGTGGGGAGTAGATAAAATGGATGTTGGGAACTCCATTTCACCAGATTTTG[TC]TCTCCCTGATCAGAAAGTTTACCTTCACTTAAGGACTTGTGAAAA			
11690	IS	[TC]		TTTTTTCAGAATCTT	ctg15064	7	
11692	I		A	ACACCTCATTCTATGGTCAGGCTCACTAACTAGGCAAATT			
11692	P	A	A	CGCGCCGAGGACATCAGCAACTAATTGTAGTY			
11692	P	C	A	ATGACGTGGCAGACCCATCAGCAACTAATTGTAGTY			
11692	T	A	A	CAGAACTACAATTAGTTGCTGATGTATTTGCCTAGTTAGTGAGCCTGACCATAGAATGAGGTGTTT			
11692	T	C	A	CAGAACTACAATTAGTTGCTGATGGATTTGCCTAGTTAGTGAGCCTGACCATAGAATGAGGTGTTT			
				ATAAAAAACACTGAAGTTGAAACACCTCATTCTATGGTCAGGCTCACTAACTAGGCAAAT[AC]CATCAGCAACTAATTGTAGTTCTGAGTGCGGGTATATCTGTGCC			
11692	IS	[AC]		ATGGTCAGTGAATGCT	ctg14708	2	
11695	I		S	CGTTCAGGACCAAATTTAATGGTTTCTGTTGGAAAATCA			
11695	P	G	S	ATGACGTGGCAGACCCGTTCCTAACCAATGGY			
11695	P	A	S	CGCGCCGAGGTCGTTCCTAACCAATGGAY			
11695	T	G	S	TTCTTCCATTGGTTAGGAACGGGATTTTCCAACAGAAACCATTAAATTTGGTCCTGAACGCA			
11695	T	A	S	TTCTTCCATTGGTTAGGAACGAGATTTTCCAACAGAAACCATTAAATTTGGTCCTGAACGCA			
				GATCCCTCTGAGCCATTTTAGTGCCTGTGGTAATTTTGGTTCTTCCATTGGTTAGGAACG[GA]GATTTTCCAACAGAAACCATTAAATTTGGTCCTGAACGCATGTA			
11695	IS	[GA]		TATTGATTGCTGGGTA	ctg25099	7	
11697	I		S	TCCCATCTGCGCACCAGGCTGCT			
11697	P	T	S	CGCGCCGAGGAGATCCAAGGACACGGY			
11697	P	C	S	ATGACGTGGCAGACGGATCCAAGGACACGGY			
11697	T	T	S	GGCACCGTGTCCTTGGATCTGCAGCCTGGTGCGCAGATGGGAGT			
11697	T	C	S	GGCACCGTGTCCTTGGATCCGCAGCCTGGTGCGCAGATGGGAGT			

FIGURE 129B

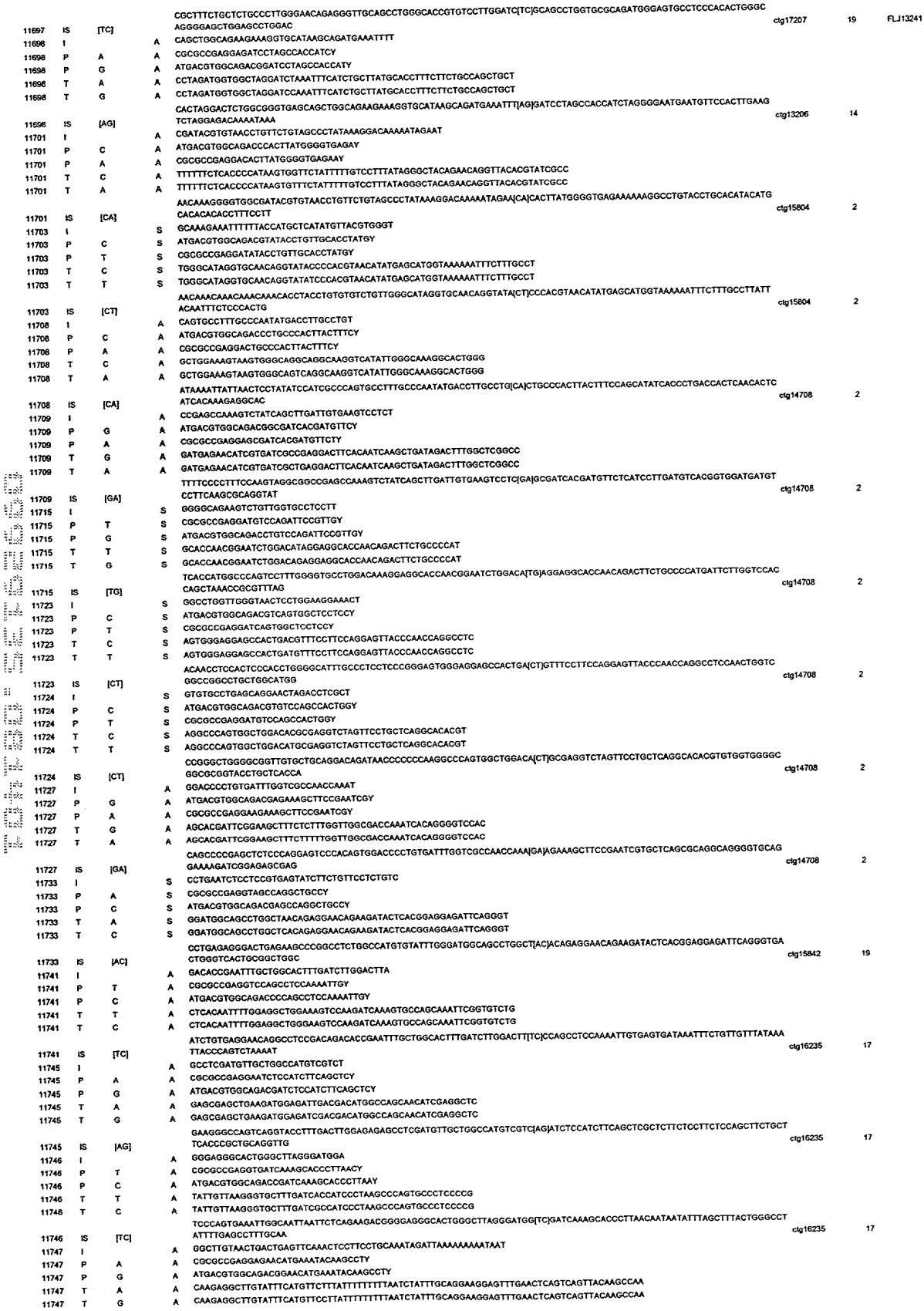

11697 IS [TC] CGCTTTCTGCTCTGCCCTTGGGAACAGAGGGTTGCAGCCTGGGCACCGTGTCCTTGGATC[TC]GCAGCCTGGTGCGCAGATGGGAGTGCCTCCCACACTGGGC AGGGGAGCTGGAGCCTGGAC ctg17207 19 FLJ13241
11698 I A CAGCTGGCAGAAGAAAGGTGCATAAGCAGATGAAATTTT
11698 P A A CGCGCCGAGGAGATCCTAGCCACCATCY
11698 P G A ATGACGTGGCAGACGGATCCTAGCCACCATY
11698 T A A CCTAGATGGTGGCTAGGATCTAAATTTCATCTGCTTATGCACCTTTCTTCTGCCAGCTGCT
11698 T G A CCTAGATGGTGGCTAGGATCCAAATTTCATCTGCTTATGCACCTTTCTTCTGCCAGCTGCT
11698 IS [AG] CACTAGGACTCTGGCGGGTGAGCAGCTGGCAGAAGAAAGGTGCATAAGCAGATGAAATTT[AG]GATCCTAGCCACCATCTAGGGGAATGAATGTTCCACTTGAAG TCTAGGAGACAAAATAAA ctg13206 14
11701 I A CGATACGTGTAACCTGTTCTGTAGCCCTATAAAGGACAAAAATAGAAT
11701 P C A ATGACGTGGCAGACCCACTTATGGGGTGAGAY
11701 P A A CGCGCCGAGGACACTTATGGGGTGAGAAY
11701 T C A TTTTTTCTCACCCCATAAGTGGTTCTATTTTTGTCCTTTATAGGGCTACAGAACAGGTTACACGTATCGCC
11701 T A A TTTTTTCTCACCCCATAAGTGTTTCTATTTTTGTCCTTTATAGGGCTACAGAACAGGTTACACGTATCGCC
11701 IS [CA] AACAAAGGGGTGGCGATACGTGTAACCTGTTCTGTAGCCCTATAAAGGACAAAAATAGAA[CA]CACTTATGGGGTGAGAAAAAAGGCCTGTACCTGCACATACATG CACACACACCTTTCCTT ctg15804 2
11703 I S GCAAAGAAATTTTTTACCATGCTCATATGTTACGTGGGT
11703 P C S ATGACGTGGCAGACGTATACCTGTTGCACCTATGY
11703 P T S CGCGCCGAGGATATACCTGTTGCACCTATGY
11703 T C S TGGGCATAGGTGCAACAGGTATACCCCACGTAACATATGAGCATGGTAAAAAATTTCTTTGCCT
11703 T T S TGGGCATAGGTGCAACAGGTATATCCCACGTAACATATGAGCATGGTAAAAAATTTCTTTGCCT
11703 IS [CT] AACAAACAAACAAACAAACACCTACCTGTGTGTCTGTTGGGCATAGGTGCAACAGGTATA[CT]CCCACGTAACATATGAGCATGGTAAAAAATTTCTTTGCCTTATT ACAATTTCTCCCACTG ctg15804 2
11708 I A CAGTGCCTTTGCCCAATATGACCTTGCCTGT
11708 P C A ATGACGTGGCAGACCCTGCCCACTTACTTTCY
11708 P A A CGCGCCGAGGACTGCCCACTTACTTTCY
11708 T C A GCTGGAAAGTAAGTGGGCAGGCAGGCAAGGTCATATTGGGCAAAGGCACTGGG
11708 T A A GCTGGAAAGTAAGTGGGCAGTCAGGCAAGGTCATATTGGGCAAAGGCACTGGG
11708 IS [CA] ATAAAATTATTAACTCCTATATCCATCGCCCAGTGCCTTTGCCCAATATGACCTTGCCTG[CA]CTGCCCACTTACTTTCCAGCATATCACCCTGACCACTCAACACTC ATCACAAAGAGGCAC ctg14708 2
11709 I A CCGAGCCAAAGTCTATCAGCTTGATTGTGAAGTCCTCT
11709 P G A ATGACGTGGCAGACGGCGATCACGATGTTCY
11709 P A A CGCGCCGAGGAGCGATCACGATGTTCTY
11709 T G A GATGAGAACATCGTGATCGCCGAGGACTTCACAATCAAGCTGATAGACTTTGGCTCGGCC
11709 T A A GATGAGAACATCGTGATCGCTGAGGACTTCACAATCAAGCTGATAGACTTTGGCTCGGCC
11709 IS [GA] TTTTCCCCTTTCCAAGTAGGCGGCCGAGCCAAAGTCTATCAGCTTGATTGTGAAGTCCTC[GA]GCGATCACGATGTTCTCATCCTTGATGTCACGGTGGATGATGT CCTTCAAGCGCAGGTAT ctg14708 2
11715 I S GGGGCAGAAGTCTGTTGGTGCCTCCTT
11715 P T S CGCGCCGAGGATGTCCAGATTCCGTTGY
11715 P G S ATGACGTGGCAGACCTGTCCAGATTCCGTTGY
11715 T T S GCACCAACGGAATCTGGACATAGGAGGCACCAACAGACTTCTGCCCCAT
11715 T G S GCACCAACGGAATCTGGACAGAGGAGGCACCAACAGACTTCTGCCCCAT
11715 IS [TG] TCACCATGGCCCAGTCCTTTGGGGTGCCTGGACAAAGGAGGCACCAACGGAATCTGGACA[TG]AGGAGGCACCAACAGACTTCTGCCCCATGATTCTTGGTCCAC CAGCTAAACCGCGTTTAG ctg14708 2
11723 I S GGCCTGGTTGGGTAACTCCTGGAAGGAAACT
11723 P C S ATGACGTGGCAGACGTCAGTGGCTCCTCCY
11723 P T S CGCGCCGAGGATCAGTGGCTCCTCCY
11723 T C S AGTGGGAGGAGCCACTGACGTTTCCTTCCAGGAGTTACCCAACCAGGCCTC
11723 T T S AGTGGGAGGAGCCACTGATGTTTCCTTCCAGGAGTTACCCAACCAGGCCTC
11723 IS [CT] ACAACCTCCACTCCCACCTGGGGCATTTGCCCTCCTCCCGGGAGTGGGAGGAGCCACTGA[CT]GTTTCCTTCCAGGAGTTACCCAACCAGGCCTCCAACTGGTC GGCCGGCCTGCTGGCATGG ctg14708 2
11724 I S GTGTGCCTGAGCAGGAACTAGACCTCGCT
11724 P C S ATGACGTGGCAGACGTGTCCAGCCACTGGY
11724 P T S CGCGCCGAGGATGTCCAGCCACTGGY
11724 T C S AGGCCCAGTGGCTGGACACGCGAGGTCTAGTTCCTGCTCAGGCACACGT
11724 T T S AGGCCCAGTGGCTGGACATGCGAGGTCTAGTTCCTGCTCAGGCACACGT
11724 IS [CT] CCGGGCTGGGGCGGTTGTGCTGCAGGACAGATAACCCCCCCAAGGCCCAGTGGCTGGACA[CT]GCGAGGTCTAGTTCCTGCTCAGGCACACGTGTGGTGGGGC GGCGCGGTACCTGCTCACCA ctg14708 2
11727 I A GGACCCCTGTGATTTGGTCGCCAACCAAAT
11727 P G A ATGACGTGGCAGACGAGAAAGCTTCCGAATCGY
11727 P A A CGCGCCGAGGAAGAAAGCTTCCGAATCGY
11727 T G A AGCACGATTCGGAAGCTTTCTCTTTGGTTGGCGACCAAATCACAGGGGTCCAC
11727 T A A AGCACGATTCGGAAGCTTTCTTTTTGGTTGGCGACCAAATCACAGGGGTCCAC
11727 IS [GA] CAGCCCCGAGCTCTCCCAGGAGTCCCACAGTGGACCCCTGTGATTTGGTCGCCAACCAAA[GA]AGAAAGCTTCCGAATCGTGCTCAGCGCAGGCAGGGGTGCAG GAAAAGATCGGAGAGCGAG ctg14708 2
11733 I S CCTGAATCTCCTCCGTGAGTATCTTCTGTTCCTCTGTC
11733 P A S CGCGCCGAGGTAGCCAGGCTGCCY
11733 P C S ATGACGTGGCAGACGAGCCAGGCTGCCY
11733 T A S GGATGGCAGCCTGGCTAACAGAGGAACAGAAGATACTCACGGAGGAGATTCAGGGT
11733 T C S GGATGGCAGCCTGGCTCACAGAGGAACAGAAGATACTCACGGAGGAGATTCAGGGT
11733 IS [AC] CCTGAGAGGGACTGAGAAGCCCGGCCTCTGGCCATGTGTATTTGGGATGGCAGCCTGGCT[AC]ACAGAGGAACAGAAGATACTCACGGAGGAGATTCAGGGTGA CTGGGTCACTGCGGCTGGC ctg15842 19
11741 I A GACACCGAATTTGCTGGCACTTTGATCTTGGACTTA
11741 P T A CGCGCCGAGGTCCAGCCTCCAAAATTGY
11741 P C A ATGACGTGGCAGACCCCAGCCTCCAAAATTGY
11741 T T A CTCACAATTTTGGAGGCTGGAAAGTCCAAGATCAAAGTGCCAGCAAATTCGGTGTCTG
11741 T C A CTCACAATTTTGGAGGCTGGAAGTCCAAGATCAAAGTGCCAGCAAATTCGGTGTCTG
11741 IS [TC] ATCTGTGAGGAACAGGCCTCCGACAGACACCGAATTTGCTGGCACTTTGATCTTGGACTT[TC]CCAGCCTCCAAAATTGTGAGTGATAAATTTCTGTTGTTTATAAA TTACCCAGTCTAAAAT ctg16235 17
11745 I A GCCTCGATGTTGCTGGCCATGTCGTCT
11745 P A A CGCGCCGAGGAATCTCCATCTTCAGCTCY
11745 P G A ATGACGTGGCAGACGATCTCCATCTTCAGCTCY
11745 T A A GAGCGAGCTGAAGATGGAGATTGACGACATGGCCAGCAACATCGAGGCTC
11745 T G A GAGCGAGCTGAAGATGGAGATCGACGACATGGCCAGCAACATCGAGGCTC
11745 IS [AG] GAAGGGCCAGTCAGGTACCTTTGACTTGGAGAGAGCCTCGATGTTGCTGGCCATGTCGTC[AG]ATCTCCATCTTCAGCTCGCTCTTCTCCTTCTCCAGCTTCTGCT TCACCCGCTGCAGGTTG ctg16235 17
11746 I A GGGAGGGCACTGGGCTTAGGGATGGA
11746 P T A CGCGCCGAGGTGATCAAAGCACCCTTAACY
11746 P C A ATGACGTGGCAGACCGATCAAAGCACCCTTAAY
11746 T T A TATTGTTAAGGGTGCTTTGATCACCATCCCTAAGCCCAGTGCCCTCCCCG
11746 T C A TATTGTTAAGGGTGCTTTGATCGCCATCCCTAAGCCCAGTGCCCTCCCCG
11746 IS [TC] TCCCAGTGAAAATTGGCAATTAATTCTCAGAAGACGGGGAGGGCACTGGGCTTAGGGATGG[TC]GATCAAAGCACCCTTAACAATAATATTTAGCTTTACTGGGCCT ATTTTGAGCCTTTGCAA ctg16235 17
11747 I A GGCTTGTAACTGACTGAGTTCAAACTCCTTCCTGCAAATAGATTAAAAAAAAATAAT
11747 P A A CGCGCCGAGGAGAACATGAAATACAAGCCTY
11747 P G A ATGACGTGGCAGACGGAACATGAAATACAAGCCTY
11747 T A A CAAGAGGCTTGTATTTCATGTTCTTTATTTTTTTTTAATCTATTTGCAGGAAGGAGTTTGAACTCAGTCAGTTACAAGCCAA
11747 T G A CAAGAGGCTTGTATTTCATGTTCCTTATTTTTTTTTAATCTATTTGCAGGAAGGAGTTTGAACTCAGTCAGTTACAAGCCAA

FIGURE 129B

				TTTTGGCTTGTAACTGACTGAGTTCAAACTCCTTCCTGCAAATAGATTAAAAAAAAATAA[AG]GAACATGAAATACAAGCCTCTTGGAGGGGGTGAAAGTTGGCTTT			
11747	IS	[AG]		TAGGCTGAGACACAGA	ctg16235	17	
11749	I		S	GCTGGAAGGAGATCTGAAAATGTCCCAGGAATCCATTT			
11749	P	T	S	CGCGCCGAGGATGGATCTAGAAAATGACAAGCY			
11749	P	C	S	ATGACGTGGCAGACGTGGATCTAGAAAATGACAAGY			
11749	T	T	S	TGCTGCTTGTCATTTTCTAGATCCATAATGGATTCCTGGGACATTTTCAGATCTCCTTCCAGCTT			
11749	T	C	S	TGCTGCTTGTCATTTTCTAGATCCACAATGGATTCCTGGGACATTTTCAGATCTCCTTCCAGCTT			
11749	IS	[TC]		AAAGAAATATCTACTTTTTCAATTTCTCTTCTATTTGCTGCTTGTCATTTTCTAGATCCA[TC]AATGGATTCCTGGGACATTTTCAGATCTCCTTCCAGCTTCCTCTTC GCCCTTTCCAAGTC	ctg16235	17	
11757	I		S	AGTGAACGCTGGGCCTAGCAAACACCTA			
11757	P	A	S	CGCGCCGAGGTGATAGCCCAGGCTGY			
11757	P	G	S	ATGACGTGGCAGACCGATAGCCCAGGCTY			
11757	T	A	S	ATTACAGCCTGGGCTATCAAGGTGTTTGCTAGGCCCAGCGTTCACTGA			
11757	T	G	S	ATTACAGCCTGGGCTATCGAGGTGTTTGCTAGGCCCAGCGTTCACTGA			
11757	IS	[AG]		AAATGGAACTACTGGGCTATTAGACCTACGTGCAGGTATTCTATTACAGCCTGGGCTATC[AG]AGGTGTTTGCTAGGCCCAGCGTTCACTGAGTCTGCATCTAGCT CTGAGGTTTTATGAACA	ctgf1	15	
11758	I		A	CCTTCTTCTCTTGGTGGGAGGTCCCTATCAAACAA			
11758	P	T	A	CGCGCCGAGGTAATTGATTCCTATCAGCCTAGY			
11758	P	C	A	ATGACGTGGCAGACCAATTGATTCCTATCAGCCTY			
11758	T	T	A	TTCTCTAGGCTGATAGGAATCAATTATGTTTGATAGGGACCTCCCACCAAGAGAAGAAGGCA			
11758	T	C	A	TTCTCTAGGCTGATAGGAATCAATTGTGTTTGATAGGGACCTCCCACCAAGAGAAGAAGGCA			
11758	IS	[TC]		AGTGCTGTCTTCTCCCCCATGCCCTGCCTTCTTCTCTTGGTGGGAGGTCCCTATCAAACA[TC]AATTGATTCCTATCAGCCTAGAGAAGCTGCGCTCCTTGCTGTG GCCCTAGCTCACCTGGT	ctg11	15	
11760	I		S	ATCGCGATTTTTGGCATTTGACTTTAGGAAAAATGTGAAGAGAGAAAT			
11760	P	C	S	ATGACGTGGCAGACGTAAAAATTTTAATTCAAAATTCAGCTCY			
11760	P	T	S	CGCGCCGAGGATAAAAATTTTAATTCAAAATTCAGCTCY			
11760	T	C	S	TTTTGAGCTGAATTTTGAATTAAAATTTTTACTTTCTCTCTTCACATTTTTCCTAAAGTCAAATGCCAAAAATCGCGATGT			
11760	T	T	S	TTTTGAGCTGAATTTTGAATTAAAATTTTTATTTTCTCTCTTCACATTTTTCCTAAAGTCAAATGCCAAAAATCGCGATGT			
11760	IS	[CT]		TGTTGAAAATCAAATCAATTCTGTCTTTTATTTTGAGGTGAATTTTGAATTAAAATTTTTA[CT]TTTCTCTCTTCACATTTTTCCTAAAGTCAAATGCCAAAAATCGCGAT GTGAGTCTGCCAG			
11761	I		A	ACTGAAAATACAAAAAGTAGCCGGGCGTGGTGGA			
11761	P	C	A	ATGACGTGGCAGACCGGGTGCCTATAATTCCY			
11761	P	T	A	CGCGCCGAGGTGGGTGCCTATAATTCCAY			
11761	T	C	A	TAGCTGGAATTATAGGCACCCGCCACCAGCCCGGCTACTTTTTGTATTTTCAGTAG			
11761	T	T	A	TAGCTGGAATTATAGGCACCCACCACCCACGCCCGGCTACTTTTTGTATTTTCAGTAG			
11761	IS	[CT]		TGGCCAACACAGTGAAACCCCGTCTCTACTGAAAATACAAAAAGTAGCCGGGCGTGGTGG[CT]GGGTGCCTATAATTCCAGCTACTCGGGAGGCCGAGGCAGGA GAATCACTTGAACCCGGGA	MULTIPLE	MULTIPLE	
11762	I		S	GCAGTATCGCCAGTTGTGGTCCTTCACTGGT			
11762	P	G	S	ATGACGTGGCAGACCTCGGTCAGCAGGTY			
11762	P	T	S	CGCGCCGAGGATCGGTCAGCAGGTGY			
11762	T	G	S	AAGCCACCTGCTGACCGAGCCAGTGAAGGACCACAACTGGCGATACTGCCC			
11762	T	T	S	AAGCCACCTGCTGACCGATCCAGTGAAGGACCACAACTGGCGATACTGCCC			
11762	IS	[GT]		TGAAGAGCACTTGCAGCCGCATCAGGTGAACATCAAACTGCAAAGCCACCTGCTGACCGA[GT]CCAGTGAAGGACCACAACTGGCGATACTGCCCTGCCCACCAC AGCCCACTGTCTGCCTTC	ctg16235	17	
11782	I		S	CATCTGGGACGATAACCCTGCCCCCTCT			
11782	P	G	S	CGCGCCGAGGCACCCACGATAAGGTCAY			
11782	P	C	S	ATGACGTGGCAGACGACCCACGATAAGGTCAY			
11782	T	G	S	GCACTGACCTTATCGTGGGTGGAGGGGGCAGGGTTATCGTCCCAGATGGT			
11782	T	C	S	GCACTGACCTTATCGTGGGTCGAGGGGGCAGGGTTATCGTCCCAGATGGT			
11782	IS	[GC]		GGCCACGCTGGTGGGTCGGGGCTGGCTGGGGGCACCGGGCGCACTGACCTTATCGTGGGT[GC]GAGGGGGCAGGGTTATCGTCCCAGATGGTGGACACCTGG TTGAGGCTGTCAGCCGGCAGG	ctg_na	NA	
11791	I		S	CCCCCAAGCGTAGCCAGGGTGGC			
11791	P	T	S	CGCGCCGAGGATGCCAAAAGCCGAGY			
11791	P	A	S	ATGACGTGGCAGACTTGCCAAAAGCCGAGY			
11791	T	T	S	AGAACTCGGCTTTTGGCATCCACCCTGGCTACGCTTGGGGGCA			
11791	T	A	S	AGAACTCGGCTTTTGGCAACCACCCTGGCTACGCTTGGGGGCA			
11791	IS	[TA]		GGCCTGACGTACTCAGCAGCATGTCCCAACCCAAGAGGAAACAGAACTCGGCTTTTGGCA[TA]CCACCCTGGCTACGCTTGGGGGCAGCTGGCGAGCCGAGACC TTAGTGGGCTTCAGAAGGC	ctg13206	14	LOC51004
11796	I		S	AGCAGCAGCAGCCTCCCA			
11796	P	A	S	CGCGCCGAGGTGTCAACCAACCAGCAY			
11796	P	G	S	ATGACGTGGCAGACCGTCAACCAACCAGCY			
11796	T	A	S	CGGGTGCTGGTTGGTTGACAGGGGAGGCTGCTGCTGCTGCTGC			
11796	T	G	S	CGGGTGCTGGTTGGTTGACGGGGGAGGCTGCTGCTGCTGCTGC			
11796	IS	[AG]		GGCTGCTGCTGGGACTGCGAGGGCGCCTGTGGGGCTGGTTGCGGGTGCTGGTTGGTTGAC[AG]GGGGAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT GCTGGAGCTGGAGCTGGAGCT			
11803	I		S	GGTAGCCCCTGTCCAATCTGAGTGGCCA			
11803	P	G	S	ATGACGTGGCAGACCAATGGGCCCTCTGY			
11803	P	A	S	CGCGCCGAGGTAATGGGCCCTCTGCY			
11803	T	G	S	AGGAGCAGAGGGCCCATTGGGCCACTCAGATTGGACAGGGGCTACCTG			
11803	T	A	S	AGGAGCAGAGGGCCCATTAGGCCACTCAGATTGGACAGGGGCTACCTG			
11803	IS	[GA]		AGATATCCTGGCTCTGAGAGCTCATACCAGATGCCCCCACATAGGAGCAGAGGGCCCATT[GA]GGCCACTCAGATTGGACAGGGGCTACCTGAGAGGGAACAGG AGTCAGGGCTGAGGCATGT	ctg13206	14	
11813	I		S	TGAGAGGGTGTCCCCCGCAAGTCACA			
11813	P	G	S	ATGACGTGGCAGACCCTCTCCAAGTCACCCY			
11813	P	A	S	CGCGCCGAGGTCTCTCCAAGTCACCCY			
11813	T	G	S	GCAGGGGTGACTTGGAGAGGGTGACTTGCGGGGGGACACCCTCTCACC			
11813	T	A	S	GCAGGGGTGACTTGGAGAGAGTGACTTGCGGGGGACACCCTCTCACC			
11813	IS	[GA]		CCCTGGGCTTCAGTATTCGGGGGTCCTGGGGGCCGGGGTGGGCAGGGGTGACTTGGAGAG[GA]GTGACTTGCGGGGGACACCCTCTCACCCGGCCCCTCGTG CCCCAGGAAGAGCAGCGGGCA			
11820	I		S	CCTCCCCAGGGCCCCTATGCTGAA			
11820	P	G	S	ATGACGTGGCAGACCGAGCCCGTGTGGY			
11820	P	A	S	CGCGCCGAGGTGAGCCCGTGTGGY			
11820	T	G	S	ACGGCCACACGGGCTCGTCAGCATAGGGGCCCTGGGGAGGCG			
11820	T	A	S	ACGGCCACACGGGCTCATCAGCATAGGGGCCCTGGGGAGGCG			
11820	IS	[GA]		CCGCATTAGTCGAGTCTGTTAACCACAGCTTTAAGGAGGACTCCACGGCCACACGGGCTC[GA]TCAGCATAGGGGCCCTGGGGAGGCGAGGCTAGTATCCAGCA GCCTCAGGGCTGTGCCTTT	ctg18466	16	
11829	I		S	CCACGGGTGATCCCCACTGAAATCTCTGAA			
11829	P	G	S	ATGACGTGGCAGACCTCCTGGGCCCACY			
11829	P	A	S	CGCGCCGAGGTTCCTGGGCCCACY			
11829	T	G	S	GAGTGTGGGCCCAGGAGTCAGAGATTTCAGTGGGGATCACCCGTGGCC			
11829	T	A	S	GAGTGTGGGCCCAGGAATCAGAGATTTCAGTGGGGATCACCCGTGGCC			
11829	IS	[GA]		GCTGGGTTTCAGACCTGAAATCCTGTGGCTGGGAGTGGGATTCAGAGTGTGGGCCCAGGA[GA]TCAGAGATTTCAGTGGGGATCACCCGTGGCCCTTGCTTGCT TTGCGAGTCTGGTCAAGTT	ctg18297	19	
11830	I		A	TCCCAAGAAGCCTCCCCTGGCTCCT			
11830	P	G	A	ATGACGTGGCAGACGCCTGAGACAGTTTGTCY			
11830	P	A	A	CGCGCCGAGGACCTGAGACAGTTTGTCTY			
11830	T	G	A	AGGCAGACAAACTGTCTCAGGCGGAGCCAGGGGAGGCTTCTTGGGAAA			
11830	T	A	A	AGGCAGACAAACTGTCTCAGGTGGAGCCAGGGGAGGCTTCTTGGGAAA			

FIGURE 129B

				TATACACCCACAAAACCCCAGTCCCAATGCCCTTTTTCCCAAGAAGCCTCCCCTGGCTCC[GA]CCTGAGACAGTTTGTCTGCCTGTGTGTCTGCCACCAGGTGTAG			
11830	IS	[GA]		GTACTGCCCACAGCAAG	ctg17286	19	
11839	I		A	GTCTTGCCCTCGTCGGTCTCTTTCTGTTCCT			
11839	P	A	A	CGCGCCGAGGACCAGCACCGAAGCY			
11839	P	G	A	ATGACGTGGCAGACGCCAGCACCGAAGY			
11839	T	A	A	CTCGGCTTCGGTGCTGGTGGAACAGAAAGAGACCGACGAGGGCAAGACGG			
11839	T	G	A	CTCGGCTTCGGTGCTGGCGGAACAGAAAGAGACCGACGAGGGCAAGACGG			
				AGACGCTCTATGCTGCTTGTTCATTTAACCGTCTTGCCCTCGTCGGTCTCTTTCTGTTCC[AG]CCAGCACCGAAGCCGAGGAGCGTGGGGATGGTGCGATCCTGA			
11839	IS	[AG]		GCACTTCCCTATCTCCAG	ctg_na	NA	
11846	I		A	ACTCTGTTAGCCGCGTATTGAGTTCAGTGGTGTCT			
11846	P	G	A	ATGACGTGGCAGACGTTGATGTCAAACCATCCTY			
11846	P	A	A	CGCGCCGAGGATTGATGTCAAACCATCCTATY			
11846	T	G	A	GGAAATAGGATGGTTTGACATCAACGACACCACTGAACTCAATACGCGGCTAACAGAGTAG			
11846	T	A	A	GGAAATAGGATGGTTTGACATCAATGACACCACTGAACTCAATACGCGGCTAACAGAGTAG			
				GAAAGTGTGACATTAACAATGTACCTACTCTGTTAGCCGCGTATTGAGTTCAGTGGTGTC[GA]TTGATGTCAAACCATCCTATTTCCTGTCGTAGAATAGCATGAAA			
11846	IS	[GA]		AAACTTCTGCCTAATT	ctg19247	7	
11866	I		A	GTCTCAAAACAACAAGAACAAGAACAAGAAAGCTTCAGGATAGAACGT			
11866	P	G	A	ATGACGTGGCAGACGGTCCTTCCTGAATTCCY			
11866	P	A	A	CGCGCCGAGGAGTCCTTCCTGAATTCCCY			
11866	T	G	A	TGAAGGGAATTCAGGAAGGACCCGTTCTATCCTGAAGCTTTCTTGTTCTTGTTCTTGTTGTTTTGAGACGG			
11866	T	A	A	TGAAGGGAATTCAGGAAGGACTCGTTCTATCCTGAAGCTTTCTTGTTCTTGTTCTTGTTGTTTTGAGACGG			
				AGAGCAAGACTCCGTCTCAAAACAACAAGAACAAGAACAAGAAAGCTTCAGGATAGAACG[GA]GTCCTTCCTGAATTCCCTTCAAACAGTTTTAACCTTAAAAGCAT			
11866	IS	[GA]		ACAAGTCATCCTTCCA	ctg16400	17	
11867	I		A	CTGGGCTTACAGGCGTGAGCCACCT			
11867	P	A	A	CGCGCCGAGGATGCCCAGCCATGAY			
11867	P	G	A	ATGACGTGGCAGACGTGCCCAGCCATGAY			
11867	T	A	A	GTTATCATGGCTGGGCATGGTGGCTCACGCCTGTAAGCCCAGCA			
11867	T	G	A	GTTATCATGGCTGGGCACGGTGGCTCACGCCTGTAAGCCCAGCA			
				CCTCAGGTGATCCACCTGCCTCGGCCTCCCAAAGTGCTGGGCTTACAGGCGTGAGCCACC[AG]TGCCCAGCCATGATAACCACTCTTGAACACCCACACGTATTC			
11867	IS	[AG]		ATGACAGTCTACATGCAG	MULTIPLE	MULTIPLE	
11868	I		S	TGTTTGCGTATCGCTCCATCCTCATTGTCTCCAA			
11868	P	G	S	ATGACGTGGCAGACCACTCGGTCTCTTTTCTTTY			
11868	P	A	S	CGCGCCGAGGTACTCGGTCTCTTTTCTTTCY			
11868	T	G	S	AGAAGAAAGAAAAGAGACCGAGTGTGGAGACAATGAGGATGGAGCGATACGCAAACAGA			
11868	T	A	S	AGAAGAAAGAAAAGAGACCGAGTATGGAGACAATGAGGATGGAGCGATACGCAAACAGA			
				TGTCACTTGAATAATAAACAGAAACTAAGAATTGTTTAGAAGAAAGAAAAGAGACCGAGT[GA]TGGAGACAATGAGGATGGAGCGATACGCAAACAGAAAAACAGA			
11868	IS	[GA]		GAGGCAAAAACTGAAAA	ctg13103	9	
11934	I		S	GTCATGCATCTTTTCTTTACCAGCTGTGTGACCTAGGACT			
11934	P	T	S	CGCGCCGAGGATGTCACTTTGCTTCTCCY			
11934	P	C	S	ATGACGTGGCAGACGTGTCACTTTGCTTCTCCY			
11934	T	T	S	TTTTGGAGAAGCAAAGTGACATGTCCTAGGTCACACAGCTGGTAAAGAAAAGATGCATGACTA			
11934	T	C	S	TTTTGGAGAAGCAAAGTGACACGTCCTAGGTCACACAGCTGGTAAAGAAAAGATGCATGACTA			
				AGGGCTTTATAATCCCCAGTTAACGGTAAGGCAATTGGGTTTTGGAGAAGCAAAGTGACA[TC]GTCCTAGGTCACACAGCTGGTAAAGAAAAGATGCATGACTAGA			
11934	IS	[TC]		ACCTAGGTATATATGAT	ctg16820	16	
12218	I		A	GCTGACAAGCGATGCTGCAGAAGCGGT			
12218	P	A	A	CGCGCCGAGGAAACGTAGCAGGAAGTCTY			
12218	P	C	A	ATGACGTGGCAGACCAACGTAGCAGGAAGTCY			
12218	T	A	A	GCCGAGACTTCCTGCTACGTTTCCGCTTCTGCAGCATCGCTTGTCAGCGA			
12218	T	C	A	GCCGAGACTTCCTGCTACGTTGCCGCTTCTGCAGCATCGCTTGTCAGCGA			
				GTCACTCCTTCCATAAGGACCAGTCCTACTGGTCGCTGACAAGCGATGCTGCAGAAGCGG[AC]AACGTAGCAGGAAGTCTCGGCCATACTTGCGTCTCTCTGTAA			
12218	IS	[AC]		ACCAGGAAAAGACATATA	ctg13206	14	
12238	I		S	CCGCACAGAGCATGCTGTCCGAGATGTGC			
12238	P	A	S	CGCGCCGAGGTCCAGGGTATGCCCY			
12238	P	C	S	ATGACGTGGCAGACGCCAGGGTATGCCCY			
12238	T	A	S	CACTGGGCATACCCTGGACACATCTCGGACAGCATGCTCTGTGCGGGC			
12238	T	C	S	CACTGGGCATACCCTGGCCACATCTCGGACAGCATGCTCTGTGCGGGC			
				ACTGCAGTGTGCCAACATCAGCATCCTGGAGAACAAACTCTGTCACTGGGCATACCCTGG[AC]CACATCTCGGACAGCATGCTCTGTGCGGGCCTGTGGGAGGG			
12238	IS	[AC]		GGGCCGAGGTTCCTGCCAG	ctg5212	19	
12241	I		A	CAGGACAAGCTGTCTGGTCACTCCACCCT			
12241	P	C	A	CGCGCCGAGGCCTTTTGGCCTTTTACCTY			
12241	P	G	A	ATGACGTGGCAGACGCTTTTGGCCTTTTACCTY			
12241	T	C	A	TTGGAGGTAAAAGGCCAAAAGGGGGTGGAGTGACCAGACAGCTTGTCCTGGG			
12241	T	G	A	TTGGAGGTAAAAGGCCAAAAGCGGGTGGAGTGACCAGACAGCTTGTCCTGGG			
				CTTATGCCTGTACTCAGCTAGGTGTCAAACCCCAGGACAAGCTGTCTGGTCACTCCACCC[CG]CTTTTGGCCTTTTACCTCCAAAATAGAAGCTGTTTAATGGAGT			
12241	IS	[CG]		AACTGACTTTTTACAGC	ctg14583	1	
12247	I		S	GTAGCTGCACTCAGCCGCCTCCGA			
12247	P	A	S	CGCGCCGAGGTGGTAAAGTCTGGGTGAAY			
12247	P	G	S	ATGACGTGGCAGACCGGTAAAGTCTGGGTGAY			
12247	T	A	S	GGCCTTCACCCAGACTTTACCACGGAGGCGGCTGAGTGCAGCTACAG			
12247	T	G	S	GGCCTTCACCCAGACTTTACCGCGGAGGCGGCTGAGTGCAGCTACAG			
				AACAGTAAGAGGAGCTGCTCTCCTATCTGCACTCACCCAGGCCTTCACCCAGACTTTACC[AG]CGGAGGCGGCTGAGTGCAGCTACAGCTAGGTCCGCGTCCCT			
12247	IS	[AG]		CACTCTTTTCATCTTCTGC	ctg16820	16	PMM2
12248	I		S	TGATTTGTCATAAACGCTCCTATTGCAGGCTGT			
12248	P	C	S	ATGACGTGGCAGACGGTCTAGTCCTTCTTGACTY			
12248	P	T	S	CGCGCCGAGGAGTCTAGTCCTTCTTGACTTY			
12248	T	C	S	CACAAAGTCAAGAAGGACTAGACCCAGCCTGCAATAGGAGCGTTTATGACAAATCACA			
12248	T	T	S	CACAAAGTCAAGAAGGACTAGACTCAGCCTGCAATAGGAGCGTTTATGACAAATCACA			
				TCTCCAATTGTGAATACTTCCTCAAGCCTTCTCCTTCCACAAAGTCAAGAAGGACTAGAC[CT]CAGCCTGCAATAGGAGCGTTTATGACAAATCACAAATTTGAAAC			
12248	IS	[CT]		CCTTTGGCTATCATAT	ctg18743	16	
12256	I		A	CCCAAGCACACAGAATGTGTGGAAGGAGCCA			
12256	P	T	A	CGCGCCGAGGTGTCCGGGGATACAGY			
12256	P	C	A	ATGACGTGGCAGACCGTCCGGGGATACAGY			
12256	T	T	A	CCTCCTGTATCCCCGGACAGGCTCCTTCCACACATTCTGTGTGCTTGGGGG			
12256	T	C	A	CCTCCTGTATCCCCGGACGGGCTCCTTCCACACATTCTGTGTGCTTGGGGG			
				ATGATGCCATCTGGACCCCCACCCCCCGCCCCCAAGCACACAGAATGTGTGGAAGGAGCC[TC]GTCCGGGGATACAGGAGGGCGGCCACACACCAGTGGCTGC			
12256	IS	[TC]		TCTGGGACTCGCCTCGCCTG			
12303	I		A	TGTGTGCCATCATGCCTGGCTAATTTTTGTATTTTTGGTAAAGAA			
12303	P	T	A	CGCGCCGAGGTGGGGCTTTGCCAY			
12303	P	C	A	ATGACGTGGCAGACCGGGGCTTTGCCAY			
12303	T	T	A	AACGTGGCAAAGCCCCATCTTTACCAAAAATACAAAAATTAGCCAGGCATGATGGCACACACC			
12303	T	C	A	AACGTGGCAAAGCCCCGTCTTTACCAAAAATACAAAAATTAGCCAGGCATGATGGCACACACC			
				TAGCTGGGACTACAGGTGTGTGCCATCATGCCTGGCTAATTTTTGTATTTTTGGTAAAGA[TC]GGGGCTTTGCCACGTTGGCCAGGCTGGTCTCGAACTCCTGAC			
12303	IS	[TC]		CTCAGGTCATCTGCCCGC	MULTIPLE	MULTIPLE	
12306	I		S	TCCCAGCAGGGAAAAGGGACATAAGGATGACAAAAC			
12306	P	T	S	CGCGCCGAGGACGGTCAGGGTCCTY			
12306	P	A	S	ATGACGTGGCAGACTCGGTCAGGGTCCTY			
12306	T	T	S	AGGCAGGACCCTGACCGTTTTTGTCATCCTTATGTCCCTTTTCCCTGCTGGGAAC			
12306	T	A	S	AGGCAGGACCCTGACCGATTTTGTCATCCTTATGTCCCTTTTCCCTGCTGGGAAC			

				GACTAATCTTGCTCCTCCATGGATGGGGTTAAAAAGTCCTTGGAGGCAGGACCCTGACCG[TA]TTTTGTCATCCTTATGTCCCTTTTCCCTGCTGGGAACCTAGTA			
12306	IS	[TA]		GATGCTCAAAAAATAAT	ctg16105	5	
12314	I		A	CCTAAAGCATACAAAATATCTGTTAGGGGCTCAGAATAGCACAGTTATT			
12314	P	G	A	ATGACGTGGCAGACGATACAAAAATGGATTTTCTCTCTCTY			
12314	P	A	A	CGCGCCGAGGAATACAAAAATGGATTTTCTCTCTCY			
12314	T	G	A	AAAAGAGAGAGAAAATCCATTTTTGTATCATAACTGTGCTATTCTGAGCCCCTAACAGATATTTTGTATGCTTTAGGGC			
12314	T	A	A	AAAAGAGAGAGAAAATCCATTTTTGTATTATAACTGTGCTATTCTGAGCCCCTAACAGATATTTTGTATGCTTTAGGGC			
				CCAGTCATATGCCCTAAAGCATACAAAATATCTGTTAGGGGCTCAGAATAGCACAGTTAT[GA]ATACAAAAATGGATTTTCTCTCTCTTTTAATAATGTTAAGAAGAC			
12314	IS	[GA]		ATCACATACCTGACT	ctg21fin5	21	
12344	I		S	CCTTCTGGCCAAAGGCTGGGATGCAAT			
12344	P	T	S	CGCGCCGAGGAATAGCCTTGGTGAGCAY			
12344	P	C	S	ATGACGTGGCAGACGATAGCCTTGGTGAGCY			
12344	T	T	S	ATAATGCTCACCAAGGCTATTTTGCATCCCAGCCTTTGGCCAGAAGGAG			
12344	T	C	S	ATAATGCTCACCAAGGCTATCTTGCATCCCAGCCTTTGGCCAGAAGGAG			
				CAAGGTTCTTTCAGGTGGAGCCCTGAATTTCTTTCCATCAATAATGCTCACCAAGGCTAT[TC]TTGCATCCCAGCCTTTGGCCAGAAGGAGCCCCTCACTGATATC			
12344	IS	[TC]		CCCAAACTCCCCACCAT	ctg22fin4	22	
12361	I		S	GTTCATGAGTTCGTCTGGGCATTTTGTATCAATTTTTCTCGAGAAT			
12361	P	G	S	ATGACGTGGCAGACCTAGGTTGTAGCTGGTGTY			
12361	P	T	S	CGCGCCGAGGATAGGTTGTAGCTGGTGTY			
12361	T	G	S	ATGCACACCAGCTACAACCTAGTTCTCGAGAAAAATTGATACAAAATGCCCAGACGAACTCATGAACAC			
12361	T	T	S	ATGCACACCAGCTACAACCTATTTCTCGAGAAAAATTGATACAAAATGCCCAGACGAACTCATGAACAC			
				TCTGATAAAATTTTTCAGAACCAAAAGATACACTGAGTCATGCACACCAGCTACAACCTA[GT]TTCTCGAGAAAAATTGATACAAAATGCCCAGACGAACTCATGAAC			
12361	IS	[GT]		ACCGTAAGAATCAGA	ctg16128	1	
12396	I		A	GGGTTAAGGGGCCACCTGTAGCACACTTCC			
12396	P	A	A	CGCGCCGAGGATCTGAAACCGGAATGAATTY			
12396	P	T	A	ATGACGTGGCAGACTTCTGAAACCGGAATGAATTY			
12396	T	A	A	GATGAATTCATTCCGGTTTCAGATGAAGTGTGCTACAGGTGGCCCCTTAACCCAC			
12396	T	T	A	GATGAATTCATTCCGGTTTCAGAAGAAGTGTGCTACAGGTGGCCCCTTAACCCAC			
				TTTAGCCTCCTGAGCAGTGTTTCCAGCCAGTGGGTTAAGGGGCCACCTGTAGCACACTTC[AT]TCTGAAACCGGAATGAATTCATCCACAATCGTTTTTTTATTGTG			
12396	IS	[AT]		ATCAACAGATAGAACC	ctg22fin4	22	
12431	I		A	TCAGGTAAACCTCATATACATAGAACTGATTGTTCAAGACTGTA			
12431	P	T	A	CGCGCCGAGGTGGTGGACTTTCTCTAAAGAY			
12431	P	C	A	ATGACGTGGCAGACCGGTGGACTTTCTCTAAAGY			
12431	T	T	A	AAACTCTTTAGAGAAAGTCCACCAACAGTCTTGAACAATCAGTTCTATGTATATGAGGTTTACCTGAAT			
12431	T	C	A	AAACTCTTTAGAGAAAGTCCACCGACAGTCTTGAACAATCAGTTCTATGTATATGAGGTTTACCTGAAT			
				GGTGCTGAAAGGAACATTCAGGTAAACCTCATATACATAGAACTGATTGTTCAAGACTGT[TC]GGTGGACTTTCTCTAAAGAGTTTGCACTAGCATAAAGCTTTATA			
12431	IS	[TC]		TGTTGGAGCAGGGTAA	ctg13446	1	
12458	I		A	GCAATTATTTTAGGGCGAAGAGTTTTATTGTCTGTTGCATA			
12458	P	C	A	ATGACGTGGCAGACCTTCCTAATGGGTTGGGY			
12458	P	T	A	CGCGCCGAGGTTTCCTAATGGGTTGGGAY			
12458	T	C	A	CGTCTCCCAACCCATTAGGAAGATGCAACAGACAATAAAACTCTTCGCCCTAAAATAATTGCTT			
12458	T	T	A	CGTCTCCCAACCCATTAGGAAAATGCAACAGACAATAAAACTCTTCGCCCTAAAATAATTGCTT			
				AATTGAGCTGAAATGTTCAAGCAATTATTTTAGGGCGAAGAGTTTTATTGTCTGTTGCAT[CT]TTCCTAATGGGTTGGGAGACGTGTGGCAGAAAAACTGGGAGGT			
12458	IS	[CT]		TGAGGGTGTCCCATTGG	ctg22fin4	22	
12480	I		S	CTCTGGAGCTGCTCTCTCTGTTGGATCCTCAGA			
12480	P	G	S	ATGACGTGGCAGACCGTCTTCCCCACCTGY			
12480	P	A	S	CGCGCCGAGGTGTCTTCCCCACCTGY			
12480	T	G	S	CCGCCAGGTGGGGAAGACGCTGAGGATCCAACAGAGAGAGCAGCTCCAGAGAG			
12480	T	A	S	CCGCCAGGTGGGGAAGACACTGAGGATCCAACAGAGAGAGCAGCTCCAGAGAG			
				GATCCGTGAAAGCCGCCGCTGCCGTCCCAATGTGACCACTTGCCGCCAGGTGGGGAAGAC[GA]CTGAGGATCCAACAGAGAGAGCAGCTCCAGAGAGCTCGACT			
12480	IS	[GA]		GCAGCAGTTCTTCAGGAGG	ctg15478	1	DJ434O14.3
12506	I		A	TGCTCTGTCAGGGTGGAGCAGCTGAGTATA			
12506	P	T	A	CGCGCCGAGGTATCAGCTGAGCAAAGATGY			
12506	P	C	A	ATGACGTGGCAGACCATCAGCTGAGCAAAGATY			
12506	T	T	A	TTCTCATCTTTGCTCAGCTGATAATACTCAGCTGCTCCACCCTGACAGAGCAGA			
12506	T	C	A	TTCTCATCTTTGCTCAGCTGATGATACTCAGCTGCTCCACCCTGACAGAGCAGA			
				GCCAGTTTGGGGACTGACTGAGTCCCCTTTCTGCTCTGTCAGGGTGGAGCAGCTGAGTAT[TC]ATCAGCTGAGCAAAGATGAGAATAAAAGGTGGGAAATAGGAG			
12506	IS	[TC]		GTGGAAGCAGAAGTGGTT	ctg15665	20	
12511	I		S	CTGTACCATTCAAGAAAACTGTCATGTTACAGAAAAAGAAATTACCGGAAACTTTA			
12511	P	G	S	ATGACGTGGCAGACCCTTTTTCTAGAAACATTAACATGAY			
12511	P	A	S	CGCGCCGAGGTCTTTTTCTAGAAACATTAACATGAAY			
12511	T	G	S	CAATTTCATGTTAATGTTTCTAGAAAAAGGAAAGTTTCCGGTAATTTCTTTTTCTGTAACATGACAGTTTTCTTGAATGGTACAGAA			
12511	T	A	S	CAATTTCATGTTAATGTTTCTAGAAAAAGAAAAGTTTCCGGTAATTTCTTTTTCTGTAACATGACAGTTTTCTTGAATGGTACAGAA			
				AACAATTCAACCAGCTTATCAGGTACAACCTCAATTTCATGTTAATGTTTCTAGAAAAAG[GA]AAAGTTTCCGGTAATTTCTTTTTCTGTAACATGACAGTTTTCTTGA			
12511	IS	[GA]		ATGGTACAGAACAT	ctg12559	6	
12518	I		A	GGTTTACAAAACAGGCAGCAGGTTAGATACAGCCCA			
12518	P	T	A	CGCGCCGAGGTCAGGCTTTCATTTGCTGY			
12518	P	C	A	ATGACGTGGCAGACCCAGGCTTTCATTTGCTY			
12518	T	T	A	GGATCAGCAAATGAAAGCCTGAGGGCTGTATCTAACCTGCTGCCTGTTTTGTAAACCAA			
12518	T	C	A	GGATCAGCAAATGAAAGCCTGGGGGCTGTATCTAACCTGCTGCCTGTTTTGTAAACCAA			
				CTGAGACTGGGTTCCAATCATACTTGGTTTACAAAACAGGCAGCAGGTTAGATACAGCCC[TC]CAGGCTTTCATTTGCTGATCCCTAATTTGTTGATTCATGTAAGA			
12518	IS	[TC]		AAGGGCTATAAGAAAA	ctg12559	6	
12520	I		S	GCCCCACTGGTGAGATCTTTGCAGGCTT			
12520	P	C	S	ATGACGTGGCAGACGCTGGCCTTGCGY			
12520	P	T	S	CGCGCCGAGGACTGGCCTTGCGTAY			
12520	T	C	S	CATCTACGCAAGGCCAGCAGCCTGCAAAGATCTCACCAGTGGGGCCT			
12520	T	T	S	CATCTACGCAAGGCCAGTAGCCTGCAAAGATCTCACCAGTGGGGCCT			
				CGGAAACCCATCAGCACCCAAAGTTTCACCTGTATGCAGTGCCCATCTACGCAAGGCCAG[CT]*AGCCTGCAAAGATCTCACCAGTGGGGCCTCTGGAAATAACCC*			
12520	IS	[CT]		AGGCTCAGAAACTAGAAG	ctg18715	1	
12537	I		A	GCCTGGGTGATAGAGTGAGACTCCATCTAAATCAATCAATCAATAAAAGTAAATT			
12537	P	A	A	CGCGCCGAGGAAAATTACAAATGGAACATTAATTGCY			
12537	P	G	A	ATGACGTGGCAGACGAAATTACAAATGGAACATTAATTGCY			
12537	T	A	A	TATAGCAATTAATGTTCCATTTGTAATTTTATTTACTTTTATTGATTGATTGATTTAGATGGAGTCTCACTCTATCACCCAGGCTA			
12537	T	G	A	TATAGCAATTAATGTTCCATTTGTAATTTCATTTACTTTTATTGATTGATTGATTTAGATGGAGTCTCACTCTATCACCCAGGCTA			
				ACTCTAGCCTGGGTGATAGAGTGAGACTCCATCTAAATCAATCAATCAATAAAAGTAAAT[AG]AAATTACAAATGGAACATTAATTGCTATAACCCGCCCTCAGTGAG			
12537	IS	[AG]		GCTAGCATGAGCCAC	ctg13446	1	
12541	I		A	GGCGGCTGTGGGTGGGCCA			
12541	P	T	A	CGCGCCGAGGTGGGCGGGTCACY			
12541	P	C	A	ATGACGTGGCAGACCGGGCGGGTCACY			
12541	T	T	A	CAGGGTGACCCGCCCAGGCCCACCCACAGCCGCCCA			
12541	T	C	A	CAGGGTGACCCGCCCGGGCCCACCCACAGCCGCCCA			
				CTCCCGCGCCAGCCCAAAATCACCCACCTGCAACGACAGATGGGCGGCTGTGGGTGGGCC[TC]GGGCGGGTCACCCTGGGATGGGCCACTCGGAGGGGGGCT			
12541	IS	[TC]		CACCTTGAGGATGCCGGCGTG	ctg16829	1	
12585	I		S	*CCCATTCATGGACACGCTGTGCTGATCCTCT*			
12585	P	C	S	ATGACGTGGCAGACGGAGGTCACGTGACTTY			
12585	P	T	S	CGCGCCGAGGAGAGGTCACGTGACTTCY			
12585	T	C	S	CCAGGAAGTCACGTGACCTCCGAGGATCAGCACAGCGTGTCCATGAATGGGCC			
12585	T	T	S	CCAGGAAGTCACGTGACCTCTGAGGATCAGCACAGCGTGTCCATGAATGGGCC			

FIGURE 129B

				AAAGGGGCCCAAGGCCTGGCTCCCGCATGCTGGGGTCCAGCCAGGAAGTCACGTGACCTC[CT]GAGGATCAGCACAGCGTGTCCATGAATGGGCCTCATTCTCG		
12585	IS	[CT]		GCCCTCTGCGGGGCCTGGA	ctg12723	20
12606	I		S	TCTGTACACTGAATTTGTCTTCCACCAATTTTAGAATGCTGATTCTTTTCAA		
12606	P	G	S	*ATGACGTGGCAGACCGGGTGACATCCTAAATTTY*		
12606	P	A	S	CGCGCCGAGGTGGGTGACATCCTAAATTTAAY		
12606	T	G	S	TTCCTTAAATTTAGGATGTCACCCGTGAAAAGAATCAGCATTCTAAAATTGGTGGAAGACAAATTCAGTGTACAGACC		
12606	T	A	S	TTCCTTAAATTTAGGATGTCACCCATGAAAAGAATCAGCATTCTAAAATTGGTGGAAGACAAATT*CAGTGTACAGACC*		
				GCACTATAAGCATTTACACTTATGATTCTTGGTTAATTCCTTAAATTTAGGATGTCACCC[GA]TGAAAAGAATCAGCATTCTAAAATTGGTGGAAGACAAATTCAGTG		
12606	IS	[GA]		TACAGACCTAGACAT	ctg16537	20
12610	I		S	ACCACAAGGGCGACAAGACCAGCTTCTCT		
12610	P	T	S	CGCGCCGAGGATCGCGGTTCGGCY		
12610	P	C	S	ATGACGTGGCAGACGTCGCGGTT*CGGCY*		
12610	T	T	S	CCTGGCCGAACCGCGATGAGAAGCTGGTCTTGTCGCCCTTGTGGTGG		
12610	T	C	S	CCTGGCCGAACCGCGACGAGAAGCTGGTCTTGTCGCCCTTGTGGTGG		
				GAGTGTGCCGTGCCAGGTGTCCAGGTGCACGCCAATGATGGAGCCCTGGCCGAACCGCGA[TC]GAGAAGCTGGTCTTGTCGCCCTTGTGGTGGAGGAGGCCTG		
12610	IS	[TC]		GGGGCAGCCAGGGTCGCAGT	MULTIPLE	MULTIPLE
12612	I		A	*CACCTCCACCCCCACGCCAGCT*		
12612	P	G	A	ATGACGTGGCAGACGCCTTCAAGGGTCAAGY		
12612	P	A	A	CGCGCCGAGGACCTTCAAGGGTCAAGTY		
12612	T	G	A	CCTGACTTGACCCTTGAAGGCGCTGGCGTGGGGGTGGAGGTGGG		
12612	T	A	A	CCTGACTTGACCCTTGAAGGTGCTGGCGTGGGGGTGGAGGTGGG		
				TGACAGGGAAGCCGGTGTTGCTGGTGGGCTTCCCCTTCCCACCTCCACCCCCACGCCAGC[GA]CCTTCAAGGGTCAAGTCAGGCAGAGAGGAACAGCTGTCTCA		
12612	IS	[GA]		GGAAGACAGAAATAGCAGA	ctg18466	16
12725	I		A	GCCCTTTTCTAGCTTACAGCCACCCAGCCT		
12725	P	A	A	*CGCGCCGAGGACTTTCTCTCTGTGTCTTCAY*		
12725	P	G	A	ATGACGTGGCAGACGCTTTCTCTCTGTGTCTTCY		
12725	T	A	A	CCTGTGAAGACACAGAGAGAAAGTGGCTGGGTGGCTGTAAGCTAGAAAAGGGCCC		
12725	T	G	A	CCTGTGAAGACACAGAGAGAAAGCGGCTGGGTGGCTGTAAGCTAGAAAAGGGCCC		
				ACGGTTCTGGAGGCTGGAAGTCTGAGTGAGGGCCCTTTTCTAGCTTACAGCCACCCAGCC[AG]CTTTCTCTCTGTGTCTTCACAGGGTGGAGAGAGAACATGCTG		
12725	IS	[AG]		TCTGTCTGGTGTCTTTCT	ctg17341	14
12730	I		S	TCCTTTCCTTACCTGGTTGCTTATGTGAGAGCCCT		
12730	P	T	S	CGCGCCGAGGACCCTTCTTCAAACCAACY		
12730	P	C	S	ATGACGTGGCAGACGCCCTTCTTCAAACCAAY		
12730	T	T	S	ACCCGTTGGTTTGAAGAAGGGTGGGCTCTCACATAAGCAACCAGGTAAGGAAAGGAAG		
12730	T	C	S	ACCCGTTGGTTTGAAGAAGGGCGGGCTCTCACATAAGCAACCAGGTAAGGAAAGGAAG		
				TAGAGCTGCCATTTGTGAACACCCTTCCTTTATGATTCCACCCGTTGGTTTGAAGAAGGG[TC]GGGCTCTCACATAAGCAACCAGGTAAGGAAAGGAAGCTGCCCA		
12730	IS	[TC]		TGAACACGTCCACATCC	ctg13655	10
12731	I		A	*GTGTGCACAGTGAGAAAGCACCTTGCAAACACT*		
12731	P	G	A	ATGACGTGGCAGACGCAAGTCTCTTGGGCY		
12731	P	A	A	CGCGCCGAGGACAAGTCTCTTGGGCAY		
12731	T	G	A	TTGTTGCCCAAGAGACTTGCGTGTTTGCAAGGTGCTTT*CTCACTGTGCACACGT*		
12731	T	A	A	TTGTTGCCCAAGAGACTTGTGTGTTTGCAAGGTGCTTTCTCACTGTGCACACGT		
				AGGCAAGCGGAAAGGAGTATGTGCCCACGTGTGCACAGTGAGAAAGCACCTTGCAAACAC[GA]CAAGTCTCTTGGGCAACAAACACAACCTCTTGCTGCCCACTG		
12731	IS	[GA]		AGGCCCGAGCAGCAGATT	ctg13655	10
12734	I		A	GACTTCAATCAAGGGCCTCTGGCATTCTCCCT		
12734	P	A	A	*CGCGCCGAGGAAGGAAGGGCTTCTTATTTCY*		
12734	P	G	A	ATGACGTGGCAGACGAGGAAGGGCTTCTTATTTCY		
12734	T	A	A	GAAGGAAATAAGAAGCCCTTCCTTGGGAGAATGCCAGAGGCCCTTGATTGAAGTCAA		
12734	T	G	A	GAAGGAAATAAGAAGCCCTTCCTCGGGAGAATGCCAGAGGCCC*TTGATTGAAGTCAA*		
				ACTGGGAGGAGGTCATCCCTTATGTCCTTGACTTCAATCAAGGGCCTCTGGCATTCTCCC[AG]AGGAAGGGCTTCTTATTTCCTTCCAGCCATGACATTAGAGGAG		
12734	IS	[AG]		GTGTGTGATGGGGTCAG	ctg13655	10
12735	I		S	TCAGCCATTTTAGAAAATAACCAGTATTTCAGGTCACCAACACATGATC		
12735	P	T	S	CGCGCCGAGGACCACTTAACAAATCTAGAAATGY		
12735	P	A	S	ATGACGTGGCAGACTCCACTTAACAAATCTAGAAATGY		
12735	T	T	S	TCTCCATTTCTAGATTTGTTAAGTGGTATCATGTGTTGGTGACCTGAAATACTGGTTATTTTCTAAAATGGCTGAAA		
12735	T	A	S	TCTCCATTTCTAGATTTGTTAAGTGGAATCATGTGTTGGTGACCTGAAATACTGGTTATTTTCTAAAATGGCTGAAA		
				CTGGGGACAAGCAAATTTTACATAAATTAGACCATCTCCATTTCTAGATTTGTTAAGTGG[TA]ATCATGTGTTGGTGACCTGAAATACTGGTTATTTTCTAAAATGGC		
12735	IS	[TA]		TGAAATGCTGGATCA	ctg16537	20
12741	I		S	GCAGGGGGAGCATGGGAAAATCATCCCATTTTCC		
12741	P	T	S	CGCGCCGAGGACTGGTCCTTGGTTTCTY		
12741	P	A	S	ATGACGTGGCAGACTCTGGTCCTTGGTTTCTY		
12741	T	T	S	*GGGGAGAAACCAAGGACCAGTGAAAATGGGATGATTTTCCCATGCTCCCCCTGCAA*		
12741	T	A	S	GGGGAGAAACCAAGGACCAGAGAAAATGGGATGATTTTCCCATGCTCCCCCTGCAA		
				CTTATAAGCAAGTGTTATTATTATTCTCCCACTTTACAGAGGGGAGAAACCAAGGACCAG[TA]GAAAATGGGATGATTTTCCCATGCTCCCCCTGCAAGTTAGAGGC		
12741	IS	[TA]		AGAGCTGAAAATCCTG	ctg16586	20
12751	I		A	GGTAAGGCACTGTGCTAGGCACACAAACCTTT		
12751	P	A	A	CGCGCCGAGGATGAAGATGAATGGAATGGTY		
12751	P	G	A	ATGACGTGGCAGACGTGAAGATGAATGGAATGGTY		
12751	T	A	A	AAGAACCATTCCATTCATCTTCATAAGGTTTGTGTGCCTAGCACAGTGCCTTACCTA		
12751	T	G	A	AAGAACC*ATTC*CATTCATCTTCACAAGGTTTGTGTGCCTAGCACAGTGCCTTACCTA		
				ATTTAATTGATATTTGAGTGCCTACTTTAGGTAAGGCACTGTGCTAGGCACACAAACCTT[AG]TGAAGATGAATGGAATGGTTCTTGCCTTAAAATAGCTTTCAATTA		
12751	IS	[AG]		ACCAAGGAAACTGTA	ctg53	14
12753	I		A	CGAGCAGATTCGCAGCAAGATTTAGTGAGCTAAAATTGTCTA		
12753	P	C	A	ATGACGTGGCAGACCCTTAATAATGGGAGGGTTTY		
12753	P	T	A	CGCGCCGAGGTCTTAATAATGGGAGGGTTTTTY		
12753	T	C	A	TAAAAAAAACCCTCCCATTATTAAGAAGACAATTTTAGCTCACTAAATCTTGCTGCGAATCTGCTCGAA		
12753	T	T	A	TAAAAAAAACCCTCCCATTATTAAGAAGACAATTTTAGCTCACTAAATCTTGCTGCGAATCTGCTCGAA		
				GATGGGAACTTAAGAGATTCGAGCAGATTCGCAGCAAGATTTAGTGAGCTAAAATTGTC[TC]CTTAATAATGGGAGGGTTTTTTTTATACACATGGTCCTAAATGT		
12753	IS	[CT]		AAAATATATAAAAGTA	ctg53	14
12754	I		A	GCCTCCCATCTGTGCATCCCAGGCAA		
12754	P	T	A	CGCGCCGAGGTCTATTCCCTTTCCAGGAAY		
12754	P	C	A	ATGACGTGGCAGACCCTATTCCCTTTCCAGGAY		
12754	T	T	A	TATTTTCCTGGAAAGGGAATAGATGCCTGGGATGCACAGATGGGAGGCAG		
12754	T	C	A	TATTTTCCTGGAAAGGGAATAGGTGCCTGGGATGCACAGATGGGAGGCAG		
				TATATAAAAGTATACAATGAATAGCCTCCAGGCCTGCCTCCCATCTGTGCATCCCAGGCA[TC]CTATTCCCTTTCCAGGAAAATAATTTATCAGTGTATTGGGTATC		
12754	IS	[TC]		*CTTCCTGAGATACTCT*	ctg53	14
12766	I		A	GTCAAAAAGAATCTACAAAGCCCCCTCTCTTCCC		
12766	P	G	A	ATGACGTGGCAGACGTTGGGTAAAATCCAAGGAY		
12766	P	T	A	CGCGCCGAGGTTTGGGTAAAATCCAAGGACY		
12766	T	G	A	ATGGGTCCTTGGATTTTACCCAACGGAAGAGAGGGGGCTTTGTAGATTCTTTTTGACAG		
12766	T	T	A	ATGGGTCCTTGGATTTTACCCAAAGGAAGAGAGGGGGCTTTGTAGATTCTTTTTGACAG		
				TCTAGGAAACCTCTATGATTCTACTCTGTCAAAAAGAATCTACAAAGCCCCCTCTCTTCC[GT]TTGGGTAAAATCCAAGGACCCATTGGTACCTGATCCATTTTGAG		
12766	IS	[GT]		AAACACAAGCCCTGGG	ctg21fin2	21
12771	I		S	AGCCCGAAGATGAAGACTAAAAGCTGCCTCCTC		
12771	P	C	S	ATGACGTGGCAGACGTTCTTCCATGGTGGAAGY		
12771	P	A	S	CGCGCCGAGGTTTCTTCCATGGTGGAAGY		
12771	T	C	S	TAGGCTTCCACCATGGAAGAACAGGAGGCAGCTTTT*AGTCTTCATCTTCGGGCTTA*		
12771	T	A	S	TAGGCTTCCACCATGGAAGAAAAGGAGGCAGCTTTTAGTCTTCATCTTCGGGCTTA		

FIGURE 129B

				TTCATTCTTTCGCTGGTTTCAGGAGAAAGGTTGTAAAAATAGGCTTCCACCATGGAAGAA[CA]AGGAGGCAGCTTTTAGTCTTCATCTTCGGGCTTAAAAATCGGAT TGATTTAACCTTATAG	ctg21fin2	21	
12771	IS	[CA]					
12772	I		A	CCCCAGCCGAGACACCCAAGCCTTAT			
12772	P	A	A	CGCGCCGAGGACACGTTTATAATGTGACAGTY			
12772	P	G	A	ATGACGTGGCAGACGCACGTTTATAATGTGACAGY			
12772	T	A	A	TACCACTGTCACATTATAAACGTGTTAAGGCTTGGGTGTCTCGGCTGGGGAG			
12772	T	G	A	TACCACTGTCACATTATAAACGTGCTAAGGCTTGGGTGTCTCGGCTGGGGAG			
				TGATTCCCTCCCGCCCTGGGCGCTGCCTGACTGCTCCCCAGCCGAGACACCCAAGCCTTA[AG]CACGTTTATAATGTGACAGTGGTACGGGGTGCCACGCAGTG TTTCCAGGAGCGCCGGGGG	ctg21fin2	21	
12772	IS	[AG]					
12778	I		A	ACTGTCTAAAGAGAAGCAGAGAGAACACTACCTGAA			
12778	P	C	A	ATGACGTGGCAGACCTCTCTGACAGCATTAAGCY			
12778	P	T	A	CGCGCCGAGGTTCTCTGACAGCATTAAGCY			
12778	T	C	A	AGTGGCTTAATGCTGTCAGAGAGTCAGGTAGTGTTCTCTCTGCTTCTCTTTAGACAGTTA			
12778	T	T	A	AGTGGCTTAATGCTGTCAGAGAATCAGGTAGTGTTCTCTCTGCTTCTCTTTAGACAGTTA			
				ATTTATGGATGGGGAGAATAAAGTAACTGTCTAAAGAGAAGCAGAGAGAACACTACCTGA[CT]TCTCTGACAGCATTAAGCCACTCTCTTCCAGTCTGTTCTTGGTC CAGCTGCATTCTCGTT	ctg21fin2	21	
12778	IS	[CT]					
12780	I		A	CCTGGAGTTCCCAGAGGCACGTGCT			
12780	P	G	A	ATGACGTGGCAGACGGGCTCCACTCAAAACY			
12780	P	A	A	CGCGCCGAGGAGGCTCCACTCAAAACTY			
12780	T	G	A	GTCTAGTTTTGAGTGGAGCCCGCACGTGCCTCTGGGAACTCCAGGCA			
12780	T	A	A	GTCTAGTTTTGAGTGGAGCCTGCACGTGCCTCTGGGAACTCCAGGCA			
				GACCCCCGTTGTCTGAGCTCCTCTTTCTCAGCCCTGCCTGGAGTTCCCAGAGGCACGTGC[GA]GGCTCCACTCAAAACTAGACAATGAGATTTAGCCCTTCCAGC AGTTCTGGGGTGTAAGGG	ctg21fin2	21	
12780	IS	[GA]					
12782	I		A	GGGCATCTTTGTGCAAATGGGTCGCGGT			
12782	P	G	A	ATGACGTGGCAGACGAAATCTGGGTCTTCGATGY			
12782	P	A	A	CGCGCCGAGGAAAATCTGGGTCTTCGATGY			
12782	T	G	A	GTGACATCGAAGACCCAGATTTCCCGCGACCCATTTGCACAAAGATGCCCGC			
12782	T	A	A	GTGACATCGAAGACCCAGATTTTCCGCGACCCATTTGCACAAAGATGCCCGC			
				ACCTTCTTTTTGCTACCTGCCCTCTTTTAAAGCGGGCATCTTTGTGCAAATGGGTCGCGG[GA]AAATCTGGGTCTTCGATGTCACTGATCAGTGTAATCTGAACTAA CCTAATGGACGTTGCT	ctg21fin2	21	
12782	IS	[GA]					
12790	I		S	TCTGTTGCTCAACAATACTGTTTTTTTCCTTTAGTAGTTTACCAA			
12790	P	A	S	CGCGCCGAGGTAAGGGAATTTCCTTTAAGTCAY			
12790	P	G	S	ATGACGTGGCAGACCAAGGGAATTTCCTTTAAGTCY			
12790	T	A	S	TGGTTGACTTAAAGGAAATTCCCTTATGGTAAACTACTAAAGGAAAAAAACAGTATTGTTGAGCAACAGATG			
12790	T	G	S	TGGTTGACTTAAAGGAAATTCCCTTGTGGTAAACTACTAAAGGAAAAAAACAGTATTGTTGAGCAACAGATG			
				TTTCTTTGTCTCTTGTAGAAATCAAGGAGAAATCATGGTTGACTTAAAGGAAATTCCCTT[AG]TGGTAAACTACTAAAGGAAAAAAACAGTATTGTTGAGCAACAGAT GGTCATATTAGGCTT	ctg21fin2	21	BACH1
12790	IS	[AG]					
12793	I		A	TCCAAGCCCATTTGTTTCTTTGGCATTTTTCAAATCT			
12793	P	G	A	ATGACGTGGCAGACGTTTCTCTTTCTGTGATATCAATGY			
12793	P	A	A	CGCGCCGAGGATTTTCTCTTTCTGTGATATCAATGY			
12793	T	G	A	TAATCATTGATATCACAGAAAGAGAAACGATTTGAAAAATGCCAAAGAAACAAATGGGCTTGGACA			
12793	T	A	A	TAATCATTGATATCACAGAAAGAGAAATGATTTGAAAAATGCCAAAGAAACAAATGGGCTTGGACA			
				TTAGTCCATAGTGATTACAATATGTCCAAGCCCATTTGTTTCTTTGGCATTTTTCAAATC[GA]TTTCTCTTTCTGTGATATCAATGATTACATAATCTTATTTATCATTC TAAGGGCCTGGGT	ctg21fin2	21	
12793	IS	[GA]					
12800	I		S	TTCATGCTTGCAATTCTAGTTATCTGATTTGAGTCTTTCTCAAAATAC			
12800	P	A	S	CGCGCCGAGGTGACTGGTATTTATTTATAGGATAGTY			
12800	P	C	S	ATGACGTGGCAGACGGACTGGTATTTATTTATAGGATAGTY			
12800	T	A	S	CAGCACTATCCTATAAATAAATACCAGTCATATTTTGAGAAAGACTCAAATCAGATAACTAGAATTGCAAGCATGAAGT			
12800	T	C	S	CAGCACTATCCTATAAATAAATACCAGTCCTATTTTGAGAAAGACTCAAATCAGATAACTAGAATTGCAAGCATGAAGT			
				ACAATCACTTTCACTCCAAGAACGTTGGCTACAGCACTATCCTATAAATAAATACCAGTC[AC]TATTTTGAGAAAGACTCAAATCAGATAACTAGAATTGCAAGCATG AAGTCAGTTCTAAAT	ctg21fin2	21	
12800	IS	[AC]					
12930	I		A	GGAAATGGCTGTTTAGGGTGCTTTCAAAGGAGCTA			
12930	P	T	A	CGCGCCGAGGTGAAGGATATTGTCAGTCTTTAGY			
12930	P	C	A	ATGACGTGGCAGACCGAAGGATATTGTCAGTCTTTY			
12930	T	T	A	ACCCCTAAAGACTGACAATATCCTTCAAGCTCCTTTGAAAGCACCCTAAACAGCCATTTCCAT			
12930	T	C	A	ACCCCTAAAGACTGACAATATCCTTCGAGCTCCTTTGAAAGCACCCTAAACAGCCATTTCCAT			
				TACAATCCGCATCCAACTATTAAAATGGAAATGGCTGTTTAGGGTGCTTTCAAAGGAGCT[TC]GAAGGATATTGTCAGTCTTTAGGGGTTGGGCTGGATGCCGAGG TAAAAGTTCTTTTTGCT	ctg12616	18	TYMS
12930	IS	[TC]					
12945	I		S	TGGGGCCTTGAGTGATAGGAAAGGGGTCTT			
12945	P	C	S	ATGACGTGGCAGACGTGATGGGTAGATAGTGTGY			
12945	P	T	S	CGCGCCGAGGATGATGGGTAGATAGTGTGGY			
12945	T	C	S	CCAACCACACTATCTACCCATCACAGACCCCTTTCCTATCACTCAAGGCCCCAGC			
12945	T	T	S	CCAACCACACTATCTACCCATCATAGACCCCTTTCCTATCACTCAAGGCCCCAGC			
				TAGGGGAGGGACTTTGTTCAGGAAGAAATCCGTGTCTCCAACCACACTATCTACCCATCA[CT]AGACCCCTTTCCTATCACTCAAGGCCCCAGCCTGGCACAAATG GATGCATACAGTTCTGT	ctg15441	5	GPX3
12945	IS	[CT]					
12946	I		A	GTGTGTGTGTGCATGGGTGTACAGCCACT			
12946	P	A	A	CGCGCCGAGGATGTCTACCTATGTGTCTTTCY			
12946	P	G	A	ATGACGTGGCAGACGTGTCTACCTATGTGTCTTTCY			
12946	T	A	A	CCCAGAAAGACACATAGGTAGACATGTGGCTGTACACCCATGCACACACACACAA			
12946	T	G	A	CCCAGAAAGACACATAGGTAGACACGTGGCTGTACACCCATGCACACACACACAA			
				GTTTACACACATGCCTACAGGTATGCGTGATTGTGTGTGTGTGCATGGGTGTACAGCCAC[AG]TGTCTACCTATGTGTCTTTCTGGGAATGTGTACCATCTGTGTG CCTGCAGCTGTGTAGTG	ctg15441	5	GPX3
12946	IS	[AG]					
13075	I		S	TGGATGAGCAGGGCCTTCTTGAGGTTGCA			
13075	P	G	S	ATGACGTGGCAGACCAGCTGCTTCGTCCAY			
13075	P	A	S	CGCGCCGAGGTAGCTGCTTCGTCCAGY			
13075	T	G	S	CTATCTGGACGAAGCAGCTGGCAACCTCAAGAAGGCCCTGCTCATCCAGG			
13075	T	A	S	CTATCTGGACGAAGCAGCTAGCAACCTCAAGAAGGCCCTGCTCATCCAGG			
				GGCTCCCAGAACATCACCTACCACTGCAAGAACAGCATTGCCTATCTGGACGAAGCAGCT[GA]GCAACCTCAAGAAGGCCCTGCTCATCCAGGGCTCCAATGACG TGGAGATCCGGGCAGAGG	ctg36	12	COL2A1
13075	IS	[GA]					
13176	I		A	CCAGCTTTCTCCCAAGTTTCAGGGCCCAAC			
13176	P	T	A	CGCGCCGAGGTATTCTCAAATCACAGGATTCCY			
13176	P	G	A	ATGACGTGGCAGACGATTCTCAAATCACAGGATTCY			
13176	T	T	A	ACAGGGAATCCTGTGATTTGAGAATATTGGGCCCTGAAACTTGGGAGAAAGCTGGGG			
13176	T	G	A	ACAGGGAATCCTGTGATTTGAGAATCTTGGGCCCTGAAACTTGGGAGAAAGCTGGGG			
				AGAATTACTTTGCCACCAATCCCATGGCCCCCCAGCTTTCTCCCAAGTTTCAGGGCCCAA[TG]ATTCTCAAATCACAGGATTCCCTGTCTATGGCAGGGAACTGGA GGCTCTAGGAGGAGATC	ctg16775	19	
13176	IS	[TG]					
13190	I		A	GCAAATGGGAAAGATGGCTGGTTCTGTGAGACCT			
13190	P	G	A	ATGACGTGGCAGACGGGCTGTTCCTGGTY			
13190	P	A	A	CGCGCCGAGGAGGCTGTTCCTGGTCY			
13190	T	G	A	CTGGGACCAGGAACAGCCCGGTCTCACAGAACCAGCCATCTTTCCCATTTGCAG			
13190	T	A	A	CTGGGACCAGGAACAGCCTGGTCTCACAGAACCAGCCATCTTTCCCATTTGCAG			
				GATATGTGTGCAAGAGATCAGTAATCTGCAAATGGGAAAGATGGCTGGTTCTGTGAGACC[GA]GGCTGTTCCTGGTCCCAGCTAAGACATTGCAGTACCCACCTC CCAAAGGGAGTACACCCT	ctg12325	11	
13190	IS	[GA]					
13193	I		S	AGGCTTCCTAATTAGAACTCCTCTTAATCCACATAAGGGTGATGAAAAATA			
13193	P	G	S	ATGACGTGGCAGACCGAATTTCTTTACTCATGGTCY			
13193	P	A	S	CGCGCCGAGGTGAATTTCTTTACTCATGGTCCY			
13193	T	G	S	CTGGGGACCATGAGTAAAGAAATTCGATTTTTCATCACCCTTATGTGGATTAAGAGGAGTTCTAATTAGGAAGCCTTG			
13193	T	A	S	CTGGGGACCATGAGTAAAGAAATTCAATTTTTCATCACCCTTATGTGGATTAAGAGGAGTTCTAATTAGGAAGCCTTG			

FIGURE 129B

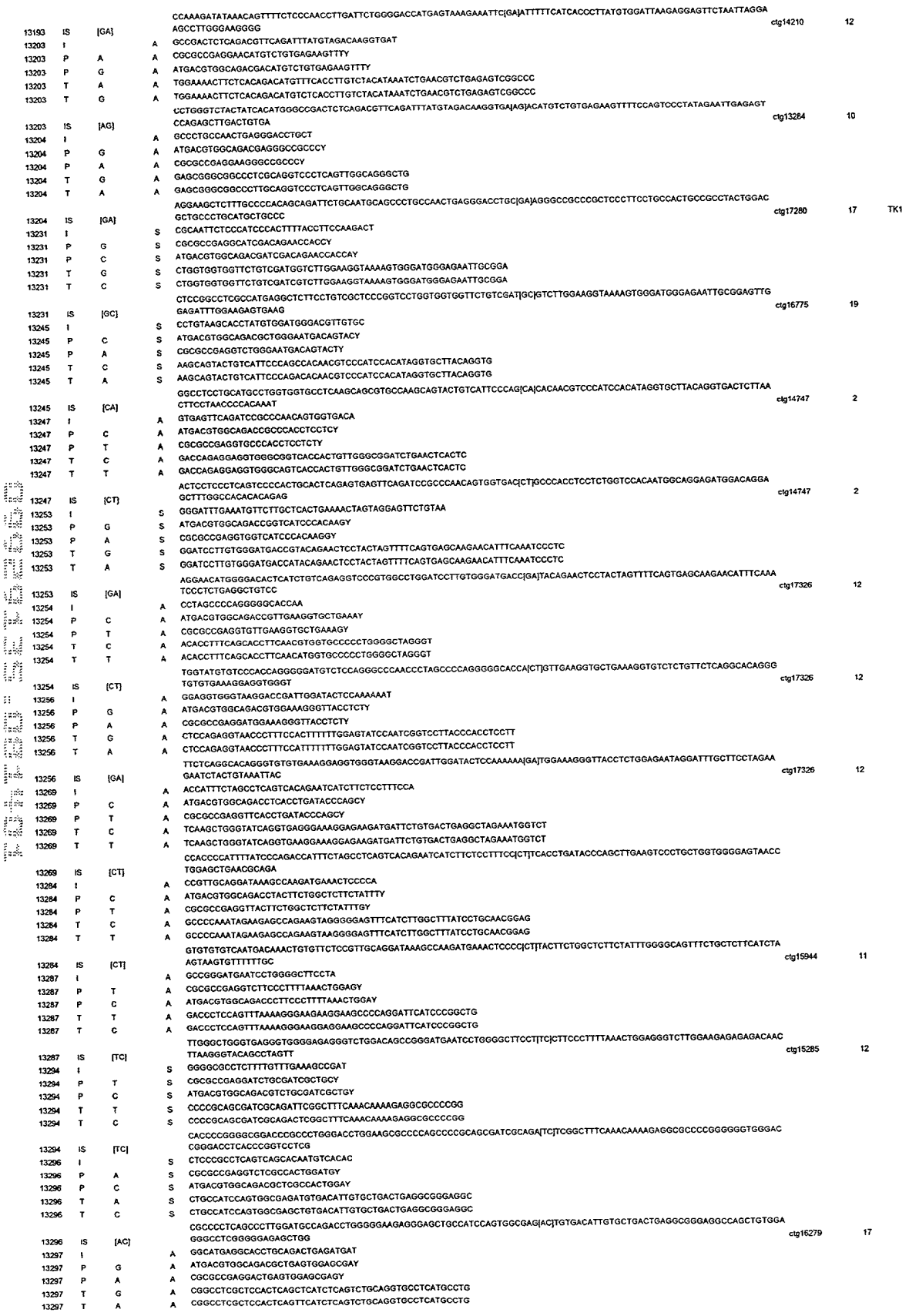


FIGURE 129B

				TGTGGGGAAGCCCCAGGGCACAGTGGGGACCAGGCATGAGGCACCTGCAGACTGAGATGA[GA]CTGAGTGGAGCGAGGCCGGGGGACCCTATCAAGACCTTTC			
13297	IS	[GA]		CCCTCCAGCTGGAGCCAGAC	ctg16279	17	
13328	I		S	GGTCAGAAAATATTGCAGTGGAACTAGAGAGTACTTGGA			
13328	P	G	S	ATGACGTGGCAGACCGTTTGTTGAGTGAACCCY			
13328	P	A	S	CGCGCCGAGGTGTTTGTTGAGTGAACCCY			
13328	T	G	S	AACTGGGTTCACTCAACAAACGCCAAGTACTCTCTAGTTCCACTGCAATATTTTCTGACCAT			
13328	T	A	S	AACTGGGTTCACTCAACAAACACCAAGTACTCTCTAGTTCCACTGCAATATTTTCTGACCAT			
13328	IS	[GA]		GAATCTTCAGTTCTCCAAGTGTTGCTTGAATGAACTGGGTTCACTCAACAAAC[GA]CCAAGTACTCTCTAGTTCCACTGCAATATTTTCTGACCATCATTTTGATGTC TCAGCTTT	ctg13446	1	
13333	I		S	CGCGATGGTCTCATACTGAGCCCGGATT			
13333	P	C	S	ATGACGTGGCAGACGTCCCTGAGGGCGY			
13333	P	T	S	CGCGCCGAGGATCCCTGAGGGCGY			
13333	T	C	S	CTGCCGCCCTCAGGGACATCCGGGCTCAGTATGAGACCATCGCGGC			
13333	T	T	S	CTGCCGCCCTCAGGGATATCCGGGCTCAGTATGAGACCATCGCGGC			
13333	IS	[CT]		ACAGCAGGTCCAGGTGGAGATGGACATGTCTAAGCCAGACCTCACTGCCGCCCTCAGGGA[CT]ATCCGGGCTCAGTATGAGACCATCGCGGCTAAGAACATTTCT GAAGCTGAGGAGTGGTAC	ctg15649	2	DES
13337	I		A	CCTTATTCTTTTCTGAGTACTGGCCCCCCTGAGAT			
13337	P	C	A	CGCGCCGAGGCTACAGTAGAAGCTATGAATCTTY			
13337	P	G	A	ATGACGTGGCAGACGTACAGTAGAAGCTATGAATCTTY			
13337	T	C	A	GGGGAAGATTCATAGCTTCTACTGTAGTCTCAGGGGGGCCAGTACTCAGAAAAGAATAAGGGA			
13337	T	G	A	GGGGAAGATTCATAGCTTCTACTGTACTCTCAGGGGGGCCAGTACTCAGAAAAGAATAAGGGA			
13337	IS	[CG]		AAAAGCAGACATTCTCTATCAGGGTCCCTTATTCTTTTCTGAGTACTGGCCCCCCTGAGA[CG]TACAGTAGAAGCTATGAATCTTCCCCCTACAAAAAAGCACTCAT GTACCTTCAAACAAAA	ctg14877	1	
13338	I		S	GTGCAATAATCTTTATTTCAGAGTTTAATCAAATAAATAAACAAATTTTAAGACTTTCATA			
13338	P	A	S	CGCGCCGAGGTATTTAGGTCAAAGAGAAAAGACAY			
13338	P	G	S	ATGACGTGGCAGACCATTTAGGTCAAAGAGAAAAGACY			
13338	T	A	S	AACCTGTCTTTTCTCTTTGACCTAAATAATGAAAGTCTTAAAATTTGTTTATTTATTTGATTAAACTCTGAAATAAAGATTATTGCAC			
13338	T	G	S	AACCTGTCTTTTCTCTTTGACCTAAATGATGAAAGTCTTAAAATTTGTTTATTTATTTGATTAAACTCTGAAATAAAGATTATTGCAC			
13338	IS	[AG]		CATCTGTACAAGCTCTTATTGTATTGTAGCTAAAACCTGTCTTTTCTCTTTGACCTAAAT[AG]ATGAAAGTCTTAAAATTTGTTTATTTATTTGATTAAACTCTGAAATA AAGATTATTGCAC	ctg13446	1	
13340	I		A	AGGTCATCTGGTACAGCCCTTCCTTCCCTTTTTTTC			
13340	P	T	A	CGCGCCGAGGTTTTTTTTTTTGTGAGACAAGGTY			
13340	P	A	A	ATGACGTGGCAGACATTTTTTTTTTGTGAGACAAGGTY			
13340	T	T	A	AGAGACCTTGTCTCACAAAAAAAAAAAAAAAAAAAGGGAAGGAAGGGCTGTACCAGATGACCTCT			
13340	T	A	A	AGAGACCTTGTCTCACAAAAAAAAAATAAAAAAAGGGAAGGAAGGGCTGTACCAGATGACCTCT			
13340	IS	[TA]		ATCAAAAAGTTGGAAAGCAGGTCAGAGGTCATCTGGTACAGCCCTTCCTTCCCTTTTTTT[TA]TTTTTTTTTTGTGAGACAAGGTCTCTCTCTGTTGCCCAGGCTGG AGTGGCGCAAACACAG			
13341	I		A	CTTGTCCTGGGGCAGTTAATGTGCAGGTTTCAA			
13341	P	T	A	CGCGCCGAGGTGATGGAGCCTGGAGY			
13341	P	C	A	ATGACGTGGCAGACCGATGGAGCCTGGAGY			
13341	T	T	A	CACCCTCCAGGCTCCATCATGAAACCTGCACATTAACTGCCCCAGGACAAGGG			
13341	T	C	A	CACCCTCCAGGCTCCATCGTGAAACCTGCACATTAACTGCCCCAGGACAAGGG			
13341	IS	[TC]		TGGGCTTGGCCCAGGGTGGGGAAAAGCCCTTGTCCTGGGGCAGTTAATGTGCAGGTTTCA[TC]GATGGAGCCTGGAGGGTGTTGACTGGAGAAGGGTCTCTGG GGTGGGCTTGGCTTGGCTGG	ctg15649	2	
13344	I		S	CATGAAAAGTCAGATGAGTGGAAGCTGCTCTGCAA			
13344	P	G	S	ATGACGTGGCAGACCATCAATCTCCTTCTACCCY			
13344	P	A	S	CGCGCCGAGGTATCAATCTCCTTCTACCCCY			
13344	T	G	S	ATTTGGGGTAGAAGGAGATTGATGTGCAGAGCAGCTTCCACTCATCTGACTTTTCATGGG			
13344	T	A	S	ATTTGGGGTAGAAGGAGATTGATATGCAGAGCAGCTTCCACTCATCTGACTTTTCATGGG			
13344	IS	[GA]		CCAGAAATGAGGGGAGCTTGAGCTTTCGTTGGCTTCTATTTGGGGTAGAAGGAGATTGAT[GA]TGCAGAGCAGCTTCCACTCATCTGACTTTTCATGGGTCTCTG GGAACAATTTCCAAATGG	ctg12567	16	
13345	I		S	TGCATGGCATCACCTCCCCTTAACAAAACAGAAAACA			
13345	P	G	S	ATGACGTGGCAGACCTGAGGCTGACAAAAGTTAY			
13345	P	A	S	CGCGCCGAGGTTGAGGCTGACAAAAGTTAGY			
13345	T	G	S	CAGACTAACTTTTGTCAGCCTCAGGTTTTCTGTTTTGTTAAGGGGAGGTGATGCCATGCAGC			
13345	T	A	S	CAGACTAACTTTTGTCAGCCTCAAGTTTTCTGTTTTGTTAAGGGGAGGTGATGCCATGCAGC			
13345	IS	[GA]		ATAAGCGTTTTGTCGCCAGTAGCCATGGCCCTTTGGGCAGACTAACTTTTGTCAGCCTCA[GA]GTTTTCTGTTTTGTTAAGGGGAGGTGATGCCATGCAGCCTACC TCATGTAAATCTCAGAG	ctg12567	16	
13347	I		A	CCAGGCACAACCCTGGAGCTTGGGATTT			
13347	P	C	A	CGCGCCGAGGCTCACCTCAGTCCTCACY			
13347	P	G	A	ATGACGTGGCAGACGTCACCTCAGTCCTCAY			
13347	T	C	A	GACAGTGAGGACTGAGGTGAGAATCCCAAGCTCCAGGGTTGTGCCTGGAA			
13347	T	G	A	GACAGTGAGGACTGAGGTGACAATCCCAAGCTCCAGGGTTGTGCCTGGAA			
13347	IS	[CG]		ACGCAGCCAACTTGCCGCCTCAGTCCTTAAATTCCAGGCACAACCCTGGAGCTTGGGATT[CG]TCACCTCAGTCCTCACTGTCTCATCCCCATTCACGGCTCCCG CCTCCGCCGCCCACAGCC	ctg15966	12	
13349	I		A	CAAGTCCATACAATTTGTGGGGTTCAGAAAAGAGGGCT			
13349	P	G	A	ATGACGTGGCAGACGGTGTTGTTTAGCTTACTACCY			
13349	P	A	A	CGCGCCGAGGAGTGTTGTTTAGCTTACTACCY			
13349	T	G	A	ACCTGGTAGTAAGCTAAACAACACTGCCCTCTTTTCTGAACCCCACAAATTGTATGGACTTGCC			
13349	T	A	A	ACCTGGTAGTAAGCTAAACAACACTGCCCTCTTTTCTGAACCCCACAAATTGTATGGACTTGCC			
13349	IS	[GA]		CAACCTGGCCTCTTCTCCCCAGGCAAGTCCATACAATTTGTGGGGTTCAGAAAAGAGGGC[GA]GTGTTGTTTAGCTTACTACCAGGTGCTGAGGCTGCTGTTTGC CCACCTAACCTGGCTCTC	ctg15966	12	
13378	I		A	GCGGGGCTGGTGAGAGAACAAGATCTCTTCA			
13378	P	T	A	CGCGCCGAGGTGTGTTCAAGGCAGACTY			
13378	P	C	A	ATGACGTGGCAGACCGTGTTCAAGGCAGACY			
13378	T	T	A	AGGAAGTCTGCCTTGAACACAGAAGAGATCTTGTTCTCTCACCAGCCCCGCAC			
13378	T	C	A	AGGAAGTCTGCCTTGAACACGGAAGAGATCTTGTTCTCTCACCAGCCCCGCAC			
13378	IS	[TC]		TTTCCTCGGGCCTACACTGTCTAGGATTGTGCGGGGCTGGTGAGAGAACAAGATCTCTTC[TC]GTGTTCAAGGCAGACTTCCTGCCCCCTGCACCCTGCTCTCTC CCAGGCCTTGAGGTCAGT	ctg12691	2	GNLY
13381	I		A	GCCTCCTTACTCCCCCATCTCCCAGCC			
13381	P	A	A	CGCGCCGAGGATGGGAAAGTGTGGAGAY			
13381	P	T	A	ATGACGTGGCAGACTTGGGAAAGTGTGGAGAY			
13381	T	A	A	CAATTCTCCACACTTTCCCATGCTGGGAGATGGGGGAGTAAGGAGGCAG			
13381	T	T	A	CAATTCTCCACACTTTCCCAAGCTGGGAGATGGGGGAGTAAGGAGGCAG			
13381	IS	[AT]		TTGGAGACAGCTTCCCCCAGGATATATCAAAGCTGCCTCCTTACTCCCCCATCTCCCAGC[AT]TGGGAAAGTGTGGAGAATTGAGCAGATGGACTTTAGCTAGAAA TGTTTGAGAAATACTGA	ctg12691	2	
13389	I		A	CCTCCCACCTCCCTTCAGAATAAGTCTAGACTCTTATCGT			
13389	P	C	A	ATGACGTGGCAGACCTTTCACCAAGCCTGCY			
13389	P	A	A	CGCGCCGAGGATTTCACCAAGCCTGCY			
13389	T	C	A	GGGCGCAGGCTTGGTGAAAGCGATAAGAGTCTAGACTTATTCTGAAGGGAGGTGGGAGGGG			
13389	T	A	A	GGGCGCAGGCTTGGTGAAATCGATAAGAGTCTAGACTTATTCTGAAGGGAGGTGGGAGGGG			
13389	IS	[CA]		CTTCTGTTCCTCTCCTCAGCCCCTCCCACCTCCCTTCAGAATAAGTCTAGACTCTTATCG[CA]TTTCACCAAGCCTGCGCCCAGCATCCCTGCACAGGGATTGTTA GGACAGCCTGACGCCCT	ctg15064	7	
13391	I		A	ACCCTGTGCCTGGCAAAAGTCCAGGTA			
13391	P	T	A	CGCGCCGAGGTGCTTCTCAGGATTTGTGY			
13391	P	C	A	ATGACGTGGCAGACCGCTTCTCAGGATTTGTGY			
13391	T	T	A	GTGCCACAAATCCTGAGAAGCAACCTGGACTTTTGCCAGGCACAGGGTCC			
13391	T	C	A	GTGCCACAAATCCTGAGAAGCGACCTGGACTTTTGCCAGGCACAGGGTCC			

FIGURE 129B

				GCTCTGGTGACCAGGACAAGGGAGGGAAGGAAGGACCCTGTGCCTGGCAAAAGTCCAGGTTTCTCGCTTCTCAGGATTTGTGGCACCTTCTGACTGTCAAACTGTTC			
13391	IS	[TC]		TTGTCAATCTCACAGGCT	ctg_na	NA	
13394	I		S	GAACTCCCGTGTACAAGTGTCTTTACTGCTTTTATTTGCTCAC			
13394	P	T	S	CGCGCCGAGGACAAAATGCACATCTCATATAAAAY			
13394	P	A	S	ATGACGTGGCAGACTCAAAATGCACATCTCATATAAAAY			
13394	T	T	S	TTATTTTTATATGAGATGTGCATTTTGTTGAGCAAATAAAAGCAGTAAAGACACTTGTACACGGGAGTTCTG			
13394	T	A	S	TTATTTTTATATGAGATGTGCATTTTGATGAGCAAATAAAAGCAGTAAAGACACTTGTACACGGGAGTTCTG			
13394	IS	[TA]		TGTTTGTGTTTGTGGTGTGTGCATGCTCCTCATTTATTTTTATATGAGATGTGCATTTTG[TA]TGAGCAAATAAAAGCAGTAAAGACACTTGTACACGGGAGTTCTG *CAAGTGGGAGTAAATG*	ctg_na	NA	
13415	I		S	ATCCCTGGCTGGTATCCCGGTTACAGAATGAT			
13415	P	C	S	ATGACGTGGCAGACGGGTCCGTGGTGCY			
13415	P	G	S	CGCGCCGAGGCGGTCCGTGGTGCY			
13415	T	C	S	TGTTGCACCACGGACCCTCATTCTGTAACCGGGATACCAGCCAGGGATGG			
13415	T	*G*	S	TGTTGCACCACGGACCGTCATTCTGTAACCGGGATACCAGCCAGGGATGG			
13415	IS	[CG]		GAGATCCGAGCAAGCTGATGAGTGTATCAGTGGCTCATTCTTTCTGTTGCACCACGGACC[CG]TCATTCTGTAACCGGGATACCAGCCAGGGATGGGGAGCGGG AGGCGCAGGGCAGGGGCGT	ctg15907	6	
13418	I		A	TCGACCGCATGACGCTGACGATGGTT			
13418	P	A	A	CGCGCCGAGGAGGTGCAGGTCTCAGY			
13418	P	G	A	ATGACGTGGCAGACGGGTGCAGGTCTCAY			
13418	T	A	A	TGCACTGAGACCTGCACCTACCATCGTCAGCGTCATGCGGTCGATC			
13418	T	G	A	TGCACTGAGACCTGCACCCACCATCGTCAGCGTCATGCGGTCGATC			
13418	IS	[AG]		*CTTCCGGCAGCACAAGACCAAAGACAAGCATGAGATCGACCGCATGACGCTGACGATGGT*[AG]GGTGCAGGTCTCAGTGCAGGGCCGCAGGGGGCTGGGGGGA GCTCCTGTGGGTGCCAGGCC			
13421	I		A	TGCCACGGACTTGGAATCATGTGGTCCCA			
13421	P	C	A	ATGACGTGGCAGACCGAATTAACTTTCCATAGTATTCTGY			
13421	P	T	A	CGCGCCGAGGTGAATTAACTTTCCATAGTATTCTGY			
13421	T	C	A	AGTTCAGAATACTATGGAAAGTTAATTCGGGGACCACATGATTCCAAGTCCGTGGCAGT			
13421	T	T	A	AGTTCAGAATACTATGGAAAGTTAATTCAGGGACCACATGATTCCAAGTCCGTGGCAGT			
13421	IS	[CT]		AAGCCCAGGAGCCTTCTTTGGCTTCCTGTGACTGCCACGGACTTGGAATCATGTGGTCCC[CT]GAATTAACTTTCCATAGTATTCTGAACTATGAACTGGATCAAG *ATGGCTGCATCTTGGGG*	ctg45	8	
13423	I		A	GCCTGGAAAATACAGCTTCAGAGGGGATAAGGGACT			
13423	P	G	A	ATGACGTGGCAGACGAGGGAGGGAAAGCAY			
13423	P	A	A	CGCGCCGAGGAAGGGAGGGAAAGCATY			
13423	T	G	A	TGAAATGCTTTCCCTCCCTCGTCCCTTATCCCCTCTGAAGCTGTATTTTCCAGGCAG			
13423	T	A	A	TGAAATGCTTTCCCTCCCTTGTCCCTTATCCCCTCTGAAGCTGTATTTTCCAGGCAG			
13423	IS	[GA]		CTAAAGCTGCTGAGAACCTGATTCTGCCTGGAAAATACAGCTTCAGAGGGGATAAGGGAC[GA]AGGGAGGGAAAGCATTTCACCAGGAACATGGTAGCGTTCTTG TTGCTGCAGGGGGCTGAG	ctg45	8	
13424	I		A	*GCAGCCCAGGGGCCCAGGTT*			
13424	P	A	A	CGCGCCGAGGACCCACTGAGACACTGY			
13424	P	G	A	ATGACGTGGCAGACGCCCACTGAGACACTY			
13424	T	A	A	CATGCAGTGTCTCAGTGGGTACCTGGGCCCCTGGGCTGCCT			
13424	T	G	A	CATGCAGTGTCTCAGTGGGCACCTGGGCCCCTGGGCTGCCT			
13424	IS	[AG]		CCAGGAACATGGTAGCGTTCTTGTTGCTGCAGGGGGCTGAGGCAGCCCAGGGGCCCAGGT[AG]CCCACTGAGACACTGCATGGATATGGAAGCCCACCAAGAAC CCTGGGAGGACAGAGTGCG	ctg45	8	
13428	I		A	GTGTGTATTTAAACTTTTGAGATGTCAAACTTTTGTGTTTGAAATATGTAAAGAA			
13428	P	C	A	ATGACGTGGCAGACCGCTAATCTTTATTACTGCTTTTY			
13428	P	T	A	CGCGCCGAGGTGCTAATCTTTATTACTGCTTTTTY			
13428	T	C	A	CAAAAAAAGCAGTAATAAAGATTAGCGTCTTTACATATTTCAAACACAAAAGTTTGACATCTCAAAAGTTTAAATACACACAA			
13428	T	T	A	CAAAAAAAAGCAGTAATAAAGATTAGCATCTTTACATATTTCAAACACAAAAGTTTGACATCTCAAAAGTTTAAATACACACAA			
13428	*IS*	*[CT]*		TATTTTGTGTGTATTTAAACTTTTGAGATGTCAAACTTTTGTGTTTGAAATATGTAAAGA[CT]GCTAATCTTTATTACTGCTTTTTTTTGACTGATAGACTTTCAGTAAA ATTAAATGTGAAA	ctg17403	17	
13441	I		A	GGCGCGTGCGGGGGCTCT			
13441	P	G	A	ATGACGTGGCAGACGTCGTCAATGCAAGCCY			
13441	P	A	A	CGCGCCGAGGA*TCGTCAATGCAAGCCY*			
13441	T	G	A	GTGCGGCTTGCATTGACGACGAGCCCCCGCACGCGCCGC			
13441	T	A	A	GTGCGGCTTGCATTGACGATGAGCCCCCGCACGCGCCGC			
13441	IS	[GA]		GAGGTGAGCCGCAGCGAGGCCTGGCTCAATGTGACGGTGAAGCGGCGCGTGCGGGGGCTC[GA]TCGTCAATGCAAGCCGCACGG*TGGTGCCCCTGAATGGGA* GCGTGAGCTTCAGCACGTCGC	MULTIPLE	16	PKD1
13444	I		A	CTTCCTCCTATTGCCCTGACACCTGGCAA			
13444	P	C	A	ATGACGTGGCAGACCGCGGCCTGCTY			
13444	P	T	A	CGCGCCGAGGTGCGGCCTGCTCY			
13444	T	C	A	CATCGAGCAGGCCGCGTGCCAGGTGTCAGGGCAATAGGAGGAAGAA			
13444	T	T	A	CATCGAGCAGGCCGCATGCCAGGTGTCAGGGCAATAGGAGGAAGAA			
13444	IS	[CT]		CCTGAGCTGGGCTCATTCTCCAGATAGAAGTTCTTCCTCCTATTGCCCTGACACCTGGCA[CT]GCGGCCTGCTCGATGTCCCATCTCACCCATCTGCGCCCTCCC CCAGCTGGGCACCAGCAC	*ctg14824*	1	
13445	I		S	CCACGCATCTTTATTTGAGTGCTTCCCACCCAGC			
13445	*P*	*T*	S	CGCGCCGAGGAGTGCAACTCCGCAY			
13445	P	A	S	ATGACGTGGCAGACTGTGCAACTCCGCAY			
13445	T	T	S	GCCCTGCGGAGTTGCACTCTGGGTGGGAAGCACTCAAATAAAGATGCGTGGTG			
13445	T	A	S	GCCCTGCGGAGTTGCACACTGGGTGGGAAGCACTCAAATAAAGATGCGTGGTG			
13445	IS	[TA]		CTAACTGGGCTCAAGGGGTGCTGGAAGGCGCAGAGATTGGAGTGCCCTGCGGAGTTGCAC[TA]CTGGGTGGGAAGCACTCAAATAAAGATGCGTGGTGTTAACA GTGCGGGGCCTCTGTGCCA	ctg14824	1	
13450	I		S	CCCCATCCCACTCCTTCCTTTCTTCCCAGAAT			
13450	P	T	S	CGCGCCGAGGAGAAGCCCACATCACAY			
13450	*P*	C	S	ATGACGTGGCAGACGGAAGCCCACATCACY			
13450	T	T	S	CACCTGTGATGTGGGCTTCTTTCTGGGAAGAAAGGAAGGAGTGGGATGGGGCT			
13450	T	C	S	CACCTGTGATGTGGGCTTCCTTCTGGGAAGAAAGGAAGGAGTGGGATGGGGCT			
13450	IS	[TC]		TGGGGGTGGGGGTTCTGGTAAAGCTTATCAGGCTTCGCAGTCACCTGTGATGTGGGCTTC[TC]TTCTGGGAAGAAAGGAAGGAGTGGGATGGGGCTGTCAGCTT TTCATCCTAGCCTGCCCCT	ctg5305	11	
13453	I		A	ACAGCTAAGCCTCCCAAGCCTGCTGGA			
13453	P	T	A	CGCGCCGAGGTTTCAGCTGACAAAGGGY			
13453	P	C	A	ATGACGTGGCAGACCTTCAGCTGACAAAGGGY			
13453	T	T	A	CCAACCCTTTGTCAGCTGAAACCAGCAGGCTTGGGAGGCTTAGCTGTGA			
13453	T	C	A	CCAACCCTTTGTCAGCTGAAGCCAGCAGGCTTGGGAGGCTTAGCTGTGA			
13453	IS	[TC]		GCTGTATCATTGGCTGACTGATGCTGGTGAATTCACAGCTAAGCCTCCCAAGCCTGCTGG[TC]TTCAGCTGACAAAGGGTTGGAAGCCAGGCGTGAACATGCAGC TGGAGCTGAAGCTCTGCT	ctg5305	11	
13455	I		A	CCGGCTTTTGGGCTCTGAAGGACTAACCACT			
13455	P	G	A	ATGACGTGGCAGACGTGCTTTCTCACTTGTCTY			
13455	P	A	A	CGCGCCGAGGATGCTTTCTCACTTGTCTCY			
13455	T	G	A	ATCTGAGACAAGTGAGAAAGCACGTGGTTAGTCCTTCAGAGCCCAAAAGCCGGGG			
13455	T	A	A	ATCTGAGACAAGTGAGAAAGCATGTGGTTAGTCCTTCAGAGCCCAAAAGCCGGGG			
13455	IS	[GA]		AGGGAAGGCAGCTCCTGGCTGTGTCTGTCCCCGGCTTTTGGGCTCTGAAGGACTAACCAC[GA]TGCTTTCTCACTTGTCTCAGATTGCCCAGCTGCCCTTGACCG GAAGCATGAGTATCATCT			
13456	I		S	*CCTGCAGGGACTTGGTGACTTCGCCTTCT*			
13456	P	C	S	ATGACGTGGCAGACGTAACTCAGCTTCAGCTTY			
13456	P	T	S	CGCGCCGAGGATAAGTCAGCTTCAGCTTGY			
13456	T	C	S	TCCCCAAGCTGAAGCTGAGTTACGAAGGCGAAGTCACCAAGTCCCTGCAGGAG			
13456	T	T	S	TCCCCAAGCTGAAGCTGAGTTATGAAGGCGAAGTCACCAAGTCCCTGCAGGAG			

				AGACCGAGAACTGAAGACCGTGCAGGCGGTCCTCACTGTCCCCAAGCTGAAGCTGAGTTA[CT]GAAGGCGAAGTCACCAAGTCCCTGCAGGAGATGAGTATGTC			
13456	IS	[CT]		TGAAGACCCTTTCGCTCTT			
13457	I		A	CAGTAAAATGGGTCAAGGTTTAGTCAGTTGGAAGTTGTGTCAAAAT			
13457	P	C	A	CGCGCCGAGGCTCACTATGGTTGGTTGAGY			
13457	P	G	A	ATGACGTGGCAGACGTCACTATGGTTGGTTGAGY			
13457	T	C	A	AGCCCTCAACCAACCATAGTGAGTTTTGACACAACTTCCAACTGACTAAACCTTGACCCATTTTACTGCT			
13457	T	G	A	AGCCCTCAACCAACCATAGTGACTTTTGACACAACTTCCAACTGACTAAACCTTGACCCATTTTACTGCT			
13457	IS	[CG]		TGTGTTTTGCAACAGCAGTAAAATGGGTCAAGGTTTAGTCAGTTGGAAGTTGTGTCAAAA[CG]TCACTATGGTTGGTTGAGGGCTCGAAGTCTCCCAGCATTCATT AACAACTATCTGTTCAA	ctg15665	20	
13459	I		A	ACCTTTGCCCTCCAGCTCCATGACCCA			
13459	P	C	A	ATGACGTGGCAGACCAGTGGCTATCTGGCTY			
13459	P	T	A	CGCGCCGAGGTAGTGGCTATCTGGCTGY			
13459	T	C	A	GCTTCAGCCAGATAGCCACTGGGGTCATGGAGCTGGAGGGCAAAGGTCA			
13459	T	T	A	GCTTCAGCCAGATAGCCACTAGGGTCATGGAGCTGGAGGGCAAAGGTCA			
13459	IS	[CT]		AGGGAACAAGCACTTCCTGAGAAATCAGCCTCTGACCTTTGCCCTCCAGCTCCATGACCC[CT]AGTGGCTATCTGGCTGAAGCTGACCTCTCCTACACCTGGGAC TTTGGAGACAGTAGTGGA	ctg15285	12	SILV
13463	I		S	TGCCCAAACAAAGCTAGGGGTGCTTTTTCTTCTTCA			
13463	P	G	S	ATGACGTGGCAGACCGTGCCTTGCATGTCY			
13463	P	A	S	CGCGCCGAGGTGTGCCTTGCATGTCY			
13463	T	G	S	AAAGGACATGCAAGGCACGGAAGAAGAAAAAGCACCCCTAGCTTTGTTTGGGCACA			
13463	T	A	S	AAAGGACATGCAAGGCACAGAAGAAGAAAAAGCACCCCTAGCTTTGTTTGGGCACA			
13463	IS	[GA]		CTTAGTTTCTCAGCCAGAGACAACTAAAACTTACCCTGATAAAAAGGACATGCAAGGCAC[GA]GAAGAAGAAAAAGCACCCCTAGCTTTGTTTGGGCACACTCTTG TTGCCAGCCTGGAAGAC	ctg12387	2	MAP2
13466	I		A	CCACGCTCAGGCGTGGAAGCCAT			
13466	P	G	A	ATGACGTGGCAGACGGGCTGTGCCAGGY			
13466	P	A	A	CGCGCCGAGGAGGCTGTGCCAGGY			
13466	T	G	A	CAGGCCTGGCACAGCCCTGGCTTCCACGCCTGAGCGTGGAG			
13466	T	A	A	CAGGCCTGGCACAGCCTTGGCTTCCACGCCTGAGCGTGGAG			
13466	IS	[GA]		GCCCCACCGCAAGCCAAACTACAACTAACTCGTGTCCTCCACGCTCAGGCGTGGAAGCCA[GA]GGCTGTGCCAGGCCTGGCCAGGCCAAGCAGGATAACAGCAA ATGCATTCTGAACGTGTAG	MULTIPLE	MULTIPLE	
13467	I		A	GTGGCATCCTCATGTGCTCAAAGTGTAGTTTTACCTACAT			
13467	P	G	A	ATGACGTGGCAGACGGTGTAAATTAGCCTATTGATTTY			
13467	P	A	A	CGCGCCGAGGAGTGTAAATTAGCCTATTGATTTGY			
13467	T	G	A	AATTCAAATCAATAGGCTAATTTACACCTGTAGGTAAAACTACACTTTGAGCACATGAGGATGCCACAA			
13467	T	A	A	AATTCAAATCAATAGGCTAATTTACACTTGTAGGTAAAACTACACTTTGAGCACATGAGGATGCCACAA			
13467	IS	[GA]		CCTCCTGGTTCCCCTTCTATTGTGGCATCCTCATGTGCTCAAAGTGTAGTTTTACCTACA[GA]GTGTAAATTAGCCTATTGATTTGAATTGAACTAGAGAAAGGCAA TACAGGGAGCTTTCCC	ctg21fin2	21	
13471	I		A	GTCCTAGGATGATCCAAAATCACCAAGACCTCCAGCA			
13471	P	T	A	CGCGCCGAGGTCTGGATGATGCCTTCTY			
13471	P	C	A	ATGACGTGGCAGACCCTGGATGATGCCTTCTY			
13471	T	T	A	ATGGAGAAGGCATCATCCAGAGCTGGAGGTCTTGGTGATTTTGGATCATCCTAGGACTG			
13471	T	C	A	ATGGAGAAGGCATCATCCAGGGCTGGAGGTCTTGGTGATTTTGGATCATCCTAGGACTG			
13471	IS	[TC]		TAACCCAACACGAAGCAGATAGCAGTCCTAGGATGATCCAAAATCACCAAGACCTCCAGC[TC]CTGGATGATGCCTTCTCCATCCTGGACTTATTCCTAGGATGCT GGTTCCGGTCCCGGTAG	ctg17224	X	
13478	I		S	TGTGGTTATGGCGCATTTAACTTTTCCAAACCAGCTTTTTA			
13478	P	A	S	CGCGCCGAGGTGTACCGCACATAGGAAY			
13478	P	G	S	ATGACGTGGCAGACCGTACCGCACATAGGAY			
13478	T	A	S	GGTCTTCCTATGTGCGGTACAAAAAAGCTGGTTTGGAAAAGTTAAATGCGCCATAACCACAAT			
13478	T	G	S	GGTCTTCCTATGTGCGGTACGAAAAAGCTGGTTTGGAAAAGTTAAATGCGCCATAACCACAAT			
13478	IS	[AG]		ACACCACTGGCCAAACAATCCTAATTTACACTCACCCTCAGGTCTTCCTATGTGCGGTAC[AG]AAAAAGCTGGTTTGGAAAAGTTAAATGCGCCATAACCACAATCA ATGCAAATACGCCAGA	ctg25301	15	
13483	I		A	CCCTCTGTGGTCTTCGCCAGGGGAATAGT			
13483	P	G	A	ATGACGTGGCAGACGTTGCCACTATCTTGAAGAAY			
13483	P	C	A	CGCGCCGAGGCTTGCCACTATCTTGAAGAAY			
13483	T	G	A	CACCTTCTTCAAGATAGTGGCAACCTATTCCCCTGGCGAAGACCACAGAGGGGA			
13483	T	C	A	CACCTTCTTCAAGATAGTGGCAAGCTATTCCCCTGGCGAAGACCACAGAGGGGA			
13483	IS	[GC]		GTGGCTTAATTGTTGCCAAATATTTCTCCCTCCCCTCTGTGGTCTTCGCCAGGGGAATAG[GC]TTGCCACTATCTTGAAGAAGGTGCACAGTGCCCTGCTCCTCTT TCCTATGTCCCCAGAAT	ctg15343	2	UGT1A9
13488	I		A	CCCGTAGAAAGCACAGAGGCAGATGACAGTCTTA			
13488	P	T	A	CGCGCCGAGGTCGTTAAAGATTTCACTGCTY			
13488	P	C	A	ATGACGTGGCAGACCCGTTAAAGATTTCACTGCY			
13488	T	T	A	CTACAGCAGTGAAATCTTTAACGAAAGACTGTCATCTGCCTCTGTGCTTTCTACGGGAT			
13488	T	C	A	CTACAGCAGTGAAATCTTTAACGGAAGACTGTCATCTGCCTCTGTGCTTTCTACGGGAT			
13488	IS	[TC]		CTGAGGAATGTAAAGGCCCAAAACAATCCCGTAGAAAGCACAGAGGCAGATGACAGTCTT[TC]CGTTAAAGATTTCACTGCTGTAGATTTCTGAGAGTGCTGTGTA GCTGTCCTCTTTATCCT	ctg14621	2	
13490	I		S	CCAGTGTGCAGGAAATCTCACAGTCCCCCT			
13490	P	C	S	ATGACGTGGCAGACGCTGGGAGAGAAGATGGY			
13490	P	T	S	CGCGCCGAGGACTGGGAGAGAAGATGGY			
13490	T	C	S	GAGACCATCTTCTCTCCCAGCGGGGGACTGTGAGATTTCCTGCACACTGGTC			
13490	T	T	S	GAGACCATCTTCTCTCCCAGTGGGGGACTGTGAGATTTCCTGCACACTGGTC			
13490	IS	[CT]		AGCAGAGGCTGATGTCGGACTAGCCTCTGGCACAGACCGGGAGACCATCTTCTCTCCCAG[CT]GGGGGACTGTGAGATTTCCTGCACACTGGTCGCCATGTAGG ATATGACGCCAGGGAAGAG	ctg21fin2	21	
13507	I		S	GGAGACCCAAAACGTCCTTACCTGCCCCT			
13507	P	T	S	CGCGCCGAGGATAGTCCAAGGGGCATY			
13507	P	C	S	ATGACGTGGCAGACGTAGTCCAAGGGGCATY			
13507	T	T	S	CATGATGCCCCTTGGACTATGGGGCAGGTAAGGACGTTTTGGGTCTCCTG			
13507	T	C	S	CATGATGCCCCTTGGACTACGGGGCAGGTAAGGACGTTTTGGGTCTCCTG			
13507	IS	[TC]		GCCGCAGCCCCGTCGGTGCGTCGAGGGGGCAGGGCGGAGCACATGATGCCCCTTGGACTA[TC]GGGGCAGGTAAGGACGTTTTGGGTCTCCTGGAGGAAGGT GGCCCCGGGGGCGCGCACTGGG	ctg17326	12	
13509	I		S	GTGGCATCTACCTTGGGGCTGGAGAAGTT			
13509	P	G	S	CGCGCCGAGGCATAGGCCCCAAGCAY			
13509	P	C	S	ATGACGTGGCAGACGATAGGCCCCAAGCAY			
13509	T	G	S	TCTTTGCTTGGGGCCTATGACTTCTCCAGCCCCAAGGTAGATGCCACCT			
13509	T	C	S	TCTTTGCTTGGGGCCTATCACTTCTCCAGCCCCAAGGTAGATGCCACCT			
13509	IS	[GC]		CATGCTGATCCAGAAAAGGAAAAAGGGGAGGGGGAGTGACAATCTTTGCTTGGGGCCTAT[GC]ACTTCTCCAGCCCCAAGGTAGATGCCACCTGGAAATCCCCCA ATGTCCACTAGGGGGCAG	ctg17326	12	
13516	I		A	CTGCTCTGGCTCAAGGCTGATGGCAATCC			
13516	P	G	A	ATGACGTGGCAGACGGCTGCGAAGTGCY			
13516	P	T	A	CGCGCCGAGGTGCTGCGAAGTGCY			
13516	T	G	A	CTGGGCACTTCGCAGCCGATTGCCATCAGCCTTGAGCCAGAGCAGGT			
13516	T	T	A	CTGGGCACTTCGCAGCAGATTGCCATCAGCCTTGAGCCAGAGCAGGT			
13516	IS	[GT]		CAGACCTGTCTCCACTCAACTACCTCACCCACCTGCTCTGGCTCAAGGCTGATGGCAATC[GT]GCTGCGAAGTGCCCAGATGAATGAACTGCCCTACCTGCAGAT TGCTAGTTTTGCTTATAA	ctg17326	12	B7
13517	I		S	CGGAAGGGATCAATGGGAGGAGGGGAAGT			
13517	P	G	S	CGCGCCGAGGCCATGCTAGAGGAGGACY			
13517	P	C	S	ATGACGTGGCAGACGCATGCTAGAGGAGGAY			
13517	T	G	S	CCCAGTCCTCCTCTAGCATGGCTTCCCCTCCTCCCATTGATCCCTTCCGGC			
13517	T	C	S	CCCAGTCCTCCTCTAGCATGCCTTCCCCTCCTCCCATTGATCCCTTCCGGC			

FIGURE 129B

				CTCCCCCACCTCAGCCTTATGCCCCTACCTCACACCAGTCCCCAGTCCTCCTCTAGCATG[GC]CTTCCCCTCCTCCCATTGATCCCTTCCGGCCCCTCCTGGCCC			
13517	IS	[GC]		GACCCAGTCCAGCCTCTT	ctg17326	12	
13518	I		S	CTTGGGCATCCTGTGGGAGGACCTGAGT			
13518	P	T	S	CGCGCCGAGGAACAGAATACCTTGGCTGY			
13518	P	C	S	ATGACGTGGCAGACGACAGAATACCTTGGCTGY			
13518	T	T	S	CAGACAGCCAAGGTATTCTGTTCTCAGGTCCTCCCACAGGATGCCCAAGGC			
13518	T	C	S	CAGACAGCCAAGGTATTCTGTCCTCAGGTCCTCCCACAGGATGCCCAAGGC			
				AGCACGTCCAGCAGTGATGGCAAAGCTGAGAAGTCCAGGCAGACAGCCAAGGTATTCTGT[TC]CTCAGGTCCTCCCACAGGATGCCCAAGGCACTGGGGCTGAG			
13518	IS	[TC]		GGTGTGTGTGTTGTGGG			
13528	I		S	CCCTAGGAGGCCGAAGAAACAGATGGAGATGATAAATGTA			
13528	P	G	S	ATGACGTGGCAGACCGGCAGCACTCTGTY			
13528	P	A	S	CGCGCCGAGGTGGCAGCACTCTGTY			
13528	T	G	S	CTGCACAGAGTGCTGCCGACATTTATCATCTCCATCTGTTTCTTCGGCCTCCTAGGGAA			
13528	T	A	S	CTGCACAGAGTGCTGCCAACATTTATCATCTCCATCTGTTTCTTCGGCCTCCTAGGGAA			
				AAATGCTACGGCCTGTGACAATGCTCCAGAAGCCTGGGACCTGCTGCACAGAGTGCTGCC[GA]ACATTTATCATCTCCATCTGTTTCTTCGGCCTCCTAGGGAAC			
13528	IS	[GA]		CTTTTTGTCCTGTTGGTC	ctg17748	14	BDKRB1
13531	I		S	GGTCAGAGACTTAGAAATGCTGGGGTCAATGGTCAGT			
13531	P	C	S	ATGACGTGGCAGACGGGTGAGGGTCCCY			
13531	P	G	S	CGCGCCGAGGCGGTGAGGGTCCCY			
13531	T	C	S	CCAGGGGACCCTCACCCCTGACCATTGACCCCAGCATTTCTAAGTCTCTGACCAT			
13531	T	G	S	CCAGGGGACCCTCACCGCTGACCATTGACCCCAGCATTTCTAAGTCTCTGACCAT			
				ACGGCTTTGATGGACTGCATCTCTGGACAGGTACCTGACCCCTTCCAGGGGACCCTCACC[CG]CTGACCATTGACCCCAGCATTTCTAAGTCTCTGACCATACAC			
13531	IS	[CG]		CTTGGGGTTCTCAGGATC	ctg14508	3	
13533	I		A	GTCCATGGTGCTCTTCCTGGACCGTGTT			
13533	P	G	A	ATGACGTGGCAGACGTATGGCATCGAGAACCY			
13533	P	A	A	CGCGCCGAGGATATGGCATCGAGAACCAY			
13533	T	G	A	GTCCTGGTTCTCGATGCCATACACACGGTCCAGGAAGAGCACCATGGACGC			
13533	T	A	A	GTCCTGGTTCTCGATGCCATATACACGGTCCAGGAAGAGCACCATGGACGC			
				GATGTCAGCATCCTTCGTGCCGGACCACAAGGCGTCCATGGTGCTCTTCCTGGACCGTGT[GA]TATGGCATCGAGAACCAGGACTTCTTGCTGCACGTGCTGGA			
13533	IS	[GA]		CGTGGGGTTCCTGCCCGAC	ctg14508	3	RYR1
13546	I		S	CTGCAGCCCTTCCCTCCCTAGGGAT			
13546	P	C	S	ATGACGTGGCAGACGGGCCCTTGTGCTY			
13546	P	T	S	CGCGCCGAGGAGGCCCTTGTGCTTAY			
13546	T	C	S	CGGGTAAGCACAAGGGCCCTCCCTAGGGAGGGAAGGGCTGCAGAA			
13546	T	T	S	CGGGTAAGCACAAGGGCCTTCCCTAGGGAGGGAAGGGCTGCAGAA			
				AGAAATTGTGAACTTTGTCCAGAAGATTGTGGACAACGGTTACGGGTAAGCACAAGGGCC[CT]TCCCTAGGGAGGGAAGGGCTGCAGAACATCGCACAGGGAGG			
13546	IS	[CT]		AGCTCCCCAGCTCTGAGCC	ctg832	11	
13547	I		S	GCAGCCCCAGAACACCTGCTCCTCTGA			
13547	P	G	S	ATGACGTGGCAGACCTTCCCAAACTCAGGCY			
13547	P	A	S	CGCGCCGAGGTTTCCCAAACTCAGGCTY			
13547	T	G	S	TCTGAGCCTGAGTTTGGGAAGCAGAGGAGCAGGTGTTCTGGGGCTGCGT			
13547	T	A	S	TCTGAGCCTGAGTTTGGGAAACAGAGGAGCAGGTGTTCTGGGGCTGCGT			
				GAAGGGCTGCAGAACATCGCACAGGGAGGAGCTCCCCAGCTCTGAGCCTGAGTTTGGGAA[GA]CAGAGGAGCAGGTGTTCTGGGGCTGCGTAGCTAGAAGTCC			
13547	IS	[GA]		CAGCAGACTTCCTCCTACAA	ctg832	11	
13550	I		A	CCCTACCCCTCTGTGTCCCTCTGAACTGCT			
13550	P	C	A	ATGACGTGGCAGACCCCTCCTCTGTCTGCY			
13550	P	A	A	CGCGCCGAGGACCTCCTCTGTCTGCY			
13550	T	C	A	GTGGGCAGACAGAGGAGGGGCAGTTCAGAGGGACACAGAGGGGTAGGGAG			
13550	T	A	A	GTGGGCAGACAGAGGAGGTGCAGTTCAGAGGGACACAGAGGGGTAGGGAG			
				TCCTGCCTTCTGCACCTGCTCCCTCCCCACTCCCTACCCCTCTGTGTCCCTCTGAACTGC[CA]CCTCCTCTGTCTGCCCACCCACACCAGACCCTTCCGGACAGC			
13550	IS	[CA]		GCCTCGAGCTAAATGGCA	ctg832	11	
13556	I		A	GGATTCGGCAACGATATTCTACGTGAAGCCT			
13556	P	C	A	CGCGCCGAGGCCTGCATTGTTTGTAAACTTTY			
13556	P	G	A	ATGACGTGGCAGACGCTGCATTGTTTGTAAACTTY			
13556	T	C	A	AATAAAAGTTTACAAACAATGCAGGGGCTTCACGTAGAATATCGTTGCCGAATCCTC			
13556	T	G	A	AATAAAAGTTTACAAACAATGCAGCGGCTTCACGTAGAATATCGTTGCCGAATCCTC			
				AAAGCAAGGTGTTTGATGGGAGATAGTAGAGGATTCGGCAACGATATTCTACGTGAAGCC[CG]CTGCATTGTTTGTAAACTTTTATTTTCGTTACCTATGTTGCATC			
13556	IS	[CG]		TTTTTTTTAGGGAGAC			
13559	I		A	ACCCACCTCCCGGGAGAAAAGCTGTGT			
13559	P	G	A	ATGACGTGGCAGACGGTCACTGCTTTCACTGY			
13559	P	A	A	CGCGCCGAGGAGTCACTGCTTTCACTGY			
13559	T	G	A	TGTGCAGTGAAAGCAGTGACCCACAGCTTTTCTCCCGGGAGGTGGGTGG			
13559	T	A	A	TGTGCAGTGAAAGCAGTGACTCACAGCTTTTCTCCCGGGAGGTGGGTGG			
				TTTCTGTCCTTGTAGAGATTTGTCCTTTTCTCCCACCCACCTCCCGGGAGAAAAGCTGTG[GA]GTCACTGCTTTCACTGCACAGCACAGAGTAGAGACCCTGGCTT			
13559	IS	[GA]		CCCCCAGCAGGGTGGGG	ctg832	11	
13560	I		S	GTTCAGCCGCCATCTCCAAGTTCTGCACTAA			
13560	P	A	S	CGCGCCGAGGTGAGCATTCCCAAACTGY			
13560	P	G	S	ATGACGTGGCAGACCGAGCATTCCCAAACTGY			
13560	T	A	S	CTTTCAGTTTGGGAATGCTCATAGTGCAGAACTTGGAGATGGCGGCTGAACCT			
13560	T	G	S	CTTTCAGTTTGGGAATGCTCGTAGTGCAGAACTTGGAGATGGCGGCTGAACCT			
				TTAAAAGCCTAAAAGCCTGGTAGATGTATATTTCAATAGTCTTTCAGTTTGGGAATGCTC[AG]TAGTGCAGAACTTGGAGATGGCGGCTGAACCTGGGAAATGAGT			
13560	IS	[AG]		CACGTGGTTGCACATGC	ctg832	11	
13562	I		A	CCTGGCTGACCAGCTTCCTATCCTATTCCTTGTTTTGT			
13562	P	C	A	ATGACGTGGCAGACCGTGACTTTCAATTTCCTGY			
13562	P	A	A	CGCGCCGAGGAGTGACTTTCAATTTCCTGGY			
13562	T	C	A	CATGCCAGGAAATTGAAAGTCACGCAAAACAAGGAATAGGATAGGAAGCTGGTCAGCCAGGGT			
13562	T	A	A	CATGCCAGGAAATTGAAAGTCACTCAAAACAAGGAATAGGATAGGAAGCTGGTCAGCCAGGGT			
				TCCCAGCTGTGTCCAGGGTACACCCTGGCTGACCAGCTTCCTATCCTATTCCTTGTTTTG[CA]GTGACTTTCAATTTCCTGGCATGCTTTTAAAATGCGCTGCACAC			
13562	IS	[CA]		AAGCAAATGGCTCCTC	ctg832	11	
13563	I		A	GCAAGCGAGGCCCAGCAGGCAGA			
13563	P	C	A	ATGACGTGGCAGACCGTGGCTGGACTTTCY			
13563	P	T	A	CGCGCCGAGGTGTGGCTGGACTTTCTY			
13563	T	C	A	GAGCAGAAAGTCCAGCCACGCTGCCTGCTGGGCCTCGCTTGCCT			
13563	T	T	A	GAGCAGAAAGTCCAGCCACACTGCCTGCTGGGCCTCGCTTGCCT			
				TTTTAAAATGCGCTGCACACAAGCAAATGGCTCCTCAGGCAAGCGAGGCCCAGCAGGCAG[CT]GTGGCTGGACTTTCTGCTCCTCTTAGGCTTGGTCAGTGAGTC			
13563	IS	[CT]		ACTTGATGGGACTGGTGT	ctg832	11	
13565	I		A	GCTTCACCCAGAAGCAAGGTTGCTGTGGA			
13565	P	C	A	ATGACGTGGCAGACCGAGCTGCCGGTY			
13565	P	T	A	CGCGCCGAGGTGAGCTGCCGGTGY			
13565	T	C	A	GATGCACCGGCAGCTCGCCACAGCAACCTTGCTTCTGGGTGAAGCAC			
13565	T	T	A	GATGCACCGGCAGCTCACCACAGCAACCTTGCTTCTGGGTGAAGCAC			
				GTGCTAACCAGACAGTGGGCGCAGCCGGAGGTGCTTCACCCAGAAGCAAGGTTGCTGTGG[CT]GAGCTGCCGGTGCATCTAGCCCTTGTGGACACAGTTGCTGA			
13565	IS	[CT]		CAGGACTTCTATTTGTTCT	ctg22fin7	22	
13575	I		A	CATCACCCTCCAGGCTGCTAGGCAGAA			
13575	P	C	A	ATGACGTGGCAGACCGGCCTCCTCTAAAGCY			
13575	P	T	A	CGCGCCGAGGTGGCCTCCTCTAAAGCY			
13575	T	C	A	CTGGGCTTTAGAGGAGGCCGTCTGCCTAGCAGCCTGGAGGGTGATGGG			
13575	T	T	A	CTGGGCTTTAGAGGAGGCCATCTGCCTAGCAGCCTGGAGGGTGATGGG			

FIGURE 129B

				TTCCCTTCTAAAAGCCTCCTCCCTCTGCCTCTCCCATCACCCTCCAGGCTGCTAGGCAGA[CT]GGCCTCCTCTAAAGCCCAGCCTAGGAAACTGAGGTCGTGACT			
13575	IS	[CT]		CCTGGCAACGTAGCCACA	ctg17450	X	
13589	I		A	GCCCATATCCTAAAGTATTAGAGTGTTACAAGGTCCTATTTGTAATT			
13589	P	C	A	ATGACGTGGCAGACCGGATCCCATTTGTAAATGTY			
13589	P	A	A	CGCGCCGAGGAGGATCCCATTTGTAAATGTTY			
13589	T	C	A	CGGAAACATTTACAAATGGGATCCGATTACAAATAGGACCTTGTAACACTCTAATACTTTAGGATATGGGCAG			
13589	T	A	A	CGGAAACATTTACAAATGGGATCCTATTACAAATAGGACCTTGTAACACTCTAATACTTTAGGATATGGGCAG			
				ATTTTCTTTCTACTGCCCATATCCTAAAGTATTAGAGTGTTACAAGGTCCTATTTGTAAT[CA]GGATCCCATTTGTAAATGTTTCCGAGTTTGACTTTCCATTGAAACC			
13589	IS	[CA]		GTGCAGCAGAAGAA	ctg25448	18	
13592	I		S	TGGCCTGACTCGCCAATCTGCTGTCTCA			
13592	P	G	S	ATGACGTGGCAGACCTAGGTACTGCCAACCTY			
13592	P	A	S	CGCGCCGAGGTTAGGTACTGCCAACCTY			
13592	T	G	S	CTTGAGGTTGGCAGTACCTAGGAGACAGCAGATTGGCGAGTCAGGCCAGC			
13592	T	A	S	CTTGAGGTTGGCAGTACCTAAGAGACAGCAGATTGGCGAGTCAGGCCAGC			
				CAGGGGGTGGCTTTTATCCAGACCTGCTGGTGTGGCAGCCCTTGAGGTTGGCAGTACCTA[GA]GAGACAGCAGATTGGCGAGTCAGGCCAGCGTGGCTTCCACA			
13592	IS	[GA]		AGTCCTTGTGGGGCTCCCG	ctg21fin5	21	
13600	I		A	CCCAATTAGGCGCCCTCCAAGGCTCTT			
13600	P	C	A	CGCGCCGAGGCTGAGGGCAATTGGAGY			
13600	P	G	A	ATGACGTGGCAGACGTGAGGGCAATTGGAGY			
13600	T	C	A	AAGCCTCCAATTGCCCTCAGAGAGCCTTGGAGGGCGCCTAATTGGGAA			
13600	T	G	A	AAGCCTCCAATTGCCCTCACAGAGCCTTGGAGGGCGCCTAATTGGGAA			
				CCCCTGTGATCTTTGCAGCCAGCCTCGCACCATTCCCAATTAGGCGCCCTCCAAGGCTCT[CG]TGAGGGCAATTGGAGGCTTCTGCTTGGATGAGGCTAAATCCC			
13600	IS	[CG]		TAATGGCTTGGTTAATGA	ctg14210	12	
13617	I		S	GTCCGCGAGCGTTTTCTGGGTGCTTTT			
13617	P	G	S	CGCGCCGAGGCTGGAGCTTCTCCAGCY			
13617	P	C	S	ATGACGTGGCAGACGTGGAGCTTCTCCAGCY			
13617	T	G	S	CAACGCTGGAGAAGCTCCAGAAAGCACCCAGAAAACGCTCGCGGACTC			
13617	T	C	S	CAACGCTGGAGAAGCTCCACAAAGCACCCAGAAAACGCTCGCGGACTC			
				TCCAAGAACCCCTCCCTCTCCTTTTGTTCTGATGAGAGGCCCAACGCTGGAGAAGCTCCA[GC]AAAGCACCCAGAAAACGCTCGCGGACTCTGATGGTCTTCAGG			
13617	IS	[GC]		GACAGCAGGGTCGCCAAT	ctg15944	11	
13622	I		A	CACCCTGGGGAGCGAAAGGGTCTTAGTTTGT			
13622	P	C	A	CGCGCCGAGGCCCCACCCATGTTCTY			
13622	P	G	A	ATGACGTGGCAGACGCCCACCCATGTTCTY			
13622	T	C	A	CTGCAGAACATGGGTGGGGCAAACTAAGACCCTTTCGCTCCCCAGGGTGGG			
13622	T	G	A	CTGCAGAACATGGGTGGGCCAAACTAAGACCCTTTCGCTCCCCAGGGTGGG			
				CTGTGGCTTCCGTTCCTTAGCCCTAGGGCCCACCCTGGGGAGCGAAAGGGTCTTAGTTTG[CG]CCCACCCATGTTCTGCAGCTCCACCCTCTCCCCTGCTGGGG			
13622	IS	[CG]		CCCTCTGGCTGGGACCCCT	ctg2712	15	
13624	I		A	GAGGCTCTGGGCCTGGTGGGTGA			
13624	P	T	A	CGCGCCGAGGTGCAGGCTCCCGY			
13624	P	C	A	ATGACGTGGCAGACCGCAGGCTCCCGY			
13624	T	T	A	GTGGCGGGAGCCTGCACACCCACCAGGCCCAGAGCCTCCT			
13624	T	C	A	GTGGCGGGAGCCTGCGCACCCACCAGGCCCAGAGCCTCCT			
				ACTGCAAGCCTGAGGATGGCCTTGAGGCCCAAGGACAGGAGGCTCTGGGCCTGGTGGGTG[TC]GCAGGCTCCCGCCACCGAGGAGCACGAGGCTGCCTCCTC			
13624	IS	[TC]		CTTCACTCTGATTGAAGGCAC	ctg15415	X	
13635	I		S	GCCAAAGGGGGACAAAGATCGGGATGCC			
13635	P	T	S	CGCGCCGAGGAGGAGAAGGCGTTGTY			
13635	P	A	S	ATGACGTGGCAGACTGGAGAAGGCGTTGTY			
13635	T	T	S	GGCCACAACGCCTTCTCCTGCATCCCGATCTTTGTCCCCCTTTGGCTC			
13635	T	A	S	GGCCACAACGCCTTCTCCAGCATCCCGATCTTTGTCCCCCTTTGGCTC			
				CTATGTCTCTTTCTTTAGATTCTGCTGGTTCACAAACTGGATGGCCACAACGCCTTCTCC[TA]GCATCCCGATCTTTGTCCCCCTTTGGCTCTCGTTGATCACGCTG			
13635	IS	[TA]		ATGGCAACCACATTTG	ctg15415	X	
13637	I		A	CGATCATTGAGTATGGCTCGCTGTGAAGAAAGAAATTCGAGT			
13637	P	G	A	ATGACGTGGCAGACGGGACAGGATCATGGCY			
13637	P	A	A	CGCGCCGAGGAGGACAGGATCATGGCY			
13637	T	G	A	CCAAGCCATGATCCTGTCCCCTCGAATTTCTTTCTTCACAGCGAGCCATACTCAATGATCGCT			
13637	T	A	A	CCAAGCCATGATCCTGTCCTCTCGAATTTCTTTCTTCACAGCGAGCCATACTCAATGATCGCT			
				TTGCCAGATGGAGGACAAGCGATCATTGAGTATGGCTCGCTGTGAAGAAAGAAATTCGAG[GA]GGACAGGATCATGGCTTGGAAAGGGTGCCTTTCCCTCCCCAG			
13637	IS	[GA]		TTGCAGTCAGAGACCTAC	ctg15415	X	LW-1
13662	I		S	GGCTAGTGATGCCCAGGGGCAGGTTATT			
13662	P	T	S	CGCGCCGAGGAGCCTTATTTCCCAAGTTCY			
13662	P	C	S	ATGACGTGGCAGACGGCCTTATTTCCCAAGTTY			
13662	T	T	S	ACCTGAACTTGGGAAATAAGGCTATAACCTGCCCCTGGGCATCACTAGCCCT			
13662	T	C	S	ACCTGAACTTGGGAAATAAGGCCATAACCTGCCCCTGGGCATCACTAGCCCT			
				GCTCACTGTCCTGGAAATCCAAAGAACAAACTGAGCTCACCTGAACTTGGGAAATAAGGC[TC]ATAACCTGCCCCTGGGCATCACTAGCCCTCCTCTCCTCCTTAC			
13662	IS	[TC]		CTTCTCTCAGCCCCAAT	ctg15944	11	

FIGURE 129C

SNP	OLIGO	PM	DC	OLIGO_SEQUENCE	GPCO	GPCH	SHORT_GENE_NAME
64206	I		S	GGCCTCACGCTGAGGCCGAGATCCA			
64206	P	A	S	CGCGCCGAGGTCATCATCCAAAGAATGGGGT			
64206	P	G	S	CGCGCCGAGGCCATCATCCAAAGAATGGGGT			
64206	T	A	S	GTGTCCCCATTCTTTGGATGATGAGGATCTCGGCCTCAGCGTGAGGCCCC			
64206	T	G	S	GTGTCCCCATTCTTTGGATGATGGGGATCTCGGCCTCAGCGTGAGGCCCC			
64206	IS	[AG]		CAGGGTGCACTATTGAGGGTTGGGGAGATGAGATACTTTGGTGACAATGAGGTGTCCCCATTCTTTGGATGATG[AG]GGATCTCGGCCTCAGCGTGAGGCCCCTCCCCACA GGGTCTCTGGCAGGCACAGAAACTGGGGGCTCTTGCGTAGCACATGGGTATTTGTGGACGCTTCCC	ctg13980	1	
64243	I		S	GCAACCCTTTGGAAGCCGGGGAGCA			
64243	P	A	S	CGCGCCGAGGTTTAAAAGAGACCGGGACTAC			
64243	P	G	S	CGCGCCGAGGCTAAAAGAGACCGGGACTAC			
64243	T	A	S	TTAGGTAGTCCCGGTCTCTTTTAAGCTCCCCGGCTTCCAAAGGGTTGCCA			
64243	T	G	S	TTAGGTAGTCCCGGTCTCTTTTAAGGCTCCCCGGCTTCCAAAGGGTTGCCA			
64243	IS	[AG]		CTCTCTCGTGTTTTTTTCCTCCGCCGCCCCCTCATTCATCCCCACTGGGCTCCCTTCCCTCAAATGCTCTGGGGCTCTCCCGGGCTTCCTGAGTCCCGGGCTCCAAGGACCCTT AGGTAGTCCCGGTCTCTTTTAA[AG]GCTCCCCGGCTTCCAAAGGGTTGCCAGTCCCTAAACCCTGTCTCCAGCTCGCATACACACACGCACAGAC	ctg16586	20	
64285	I		S	CAGCCCGGAAAGCATACATACAGTGCAGGGTTTAAAACT			
64285	P	C	S	CGCGCCGAGGGCTGGCTTTGGAATTGGGV			
64285	P	T	S	CGCGCCGAGGACTGGCTTTGGAATTGGGV			
64285	T	C	S	TCTGCCCAATTCCAAAGCCAGCGTTTTAAACCCTGCACTGTATGTATGCTTTCCGGGCTGAC			
64285	T	T	S	TCTGCCCAATTCCAAAGCCAGTGTTTTAAACCCTGCACTGTATGTATGCTTTCCGGGCTGAC			
64285	IS	[CT]		acatgctagcactggaactcagtcacagcctgcccaattccaaagccag[CT]gtttttaaacccctgcactgtatgtatgctttccgggctgactcctgacttc	ctg16586	20	
64346	I		S	GAGCCAGGGCAGGGTGGTGAACCAAT			
64346	P	T	S	CGCGCCGAGGAATCTGGCTGACTCCTAAGTV			
64346	P	C	S	CGCGCCGAGGAATCTGGCTGACTCCTAAGTV			
64346	T	T	S	TGAGACTTAGGAGTCAGCCAGATCTTGGTTCACCACCCTGCCCTGCCTCTT			
64346	T	C	S	TGAGACTTAGGAGTCAGCCAGATCTTGGTTCACCACCCTGCCCTGCCTCTT			
64346	IS	[TC]		gcggaggtgtgagtagaggggacagaatgagacttaggagtcagccagat[TC]ttggttcaccaccctgcccctgccctcttcaagctatacaggattgggcaga	ctg16586	20	
67031	I		S	CCCCAGCCCAGTTTATGCTTATCCAACTTTGGAGAACATTTAT			
67031	P	G	S	CGCGCCGAGGCTAGACAAGGAAGAAACAGGGV			
67031	P	T	S	CGCGCCGAGGATAGACAAGGAAGAAACAGGGTV			
67031	T	G	S	CCCTACCCTGTTTCTTCCTTGTCTAGTAAATGTTCTCCAAAGTTGGATAAGCATAAACTGGGCTGGGGTG			
67031	T	T	S	CCCTACCCTGTTTCTTCCTTGTCTATTAAATGTTCTCCAAAGTTGGATAAGCATAAACTGGGCTGGGGTG			
67031	IS	[GT]		gttcatattactcacctcttaaagcctaccttgtttcttccttgtcta[GT]taaatgttctccaaagttggataagcataaactgggctgggtgagaggg	ctg16586	20	
78862	I		A	AGCACATATCCTTGTAGATGTGTGAGCATGCAGTAAATGCAT			
78862	P	G	A	CGCGCCGAGGGATGTGTTCTGTCTGCCC			
78862	P	A	A	CGCGCCGAGGAATGTGTTTCTGTCTGCCC			
78862	T	G	A	AAATGGGCAGACAGAAACACATCTGCATTTACTGCATGCTCACACATGTACAAGGATATGTGCTGC			
78862	T	A	A	AAATGGGCAGACAGAAACACATTTGCATTTACTGCATGCTCACACATGTACAAGGATATGTGCTGC			
78862	IS	[GA]		ctatgttgcagcacatatacctttgtacatgtgtgagcatgcagtaaatgca[GA]atgtgtttctgtctgcccatttgtcaggtcttaagtttgtcaggctctgtca	ctg14210	12	
78877	I		A	ACATTCAGGGCTGCTCCCTTTTGTCGCCAATACAT			
78877	P	A	A	CGCGCCGAGGAACCTGTTGACAGGTCAC			
78877	P	G	A	CGCGCCGAGGGACCTGTTGACAGGTCAC			
78877	T	A	A	AGGCGTGACCTGTCAACAGGTTTGTATTGGCGACAAAAGGAGCAGCCCTGAATGTAG			
78877	T	G	A	AGGCGTGACCTGTCAACAGGTCTGTATTGGCGACAAAAGGAGCAGCCCTGAATGTAG			
78877	IS	[AG]		tccgcccctgctttcccctacattcagggctgctccttttgtcgccaatacaa[AG]acctgttgacaggtcacgccttgggaagcgggtgggggtgtcccggagcggt	ctg14210	12	
78947	I		S	GCTAGCAAACTGATATGAGGTAGAGTCCTGAAAGATCTTTCAGCAATTTCATTA			
78947	P	G	S	CGCGCCGAGGCTCTTGGGATAAGTGAGTCAC			
78947	P	A	S	CGCGCCGAGGTTCTTGGGATAAGTGAGTCACT			
78947	T	G	S	TGAAAGTGACTCACTTATCCCAAGAAATGAAATTGCTGAAAGATCTTTCAGGACTCTACCTCATATCAGTTTGCTAGCAG			
78947	T	A	S	TGAAAGTGACTCACTTATCCCAAGAAATGAAATTGCTGAAAGATCTTTCAGGACTCTACCTCATATCAGTTTGCTAGCAG			
78947	IS	[GA]		AAACCTCTATGCAATCTGAGTAGAGCAGCCACAACCAAAAAATTCTACAACACACACTGTTCTGAAAGTGACTCACTTATCCCAAGA[GA]AATGAAATTGCTGAAAGATC TTTCAGGACTCTACCTCATATCAGTTTGCTAGCAGAAATCTAGAAGACTGTCAGCTTCCAAACATTAATGCAATGGTTAACATCTTCTGTCTTTATAATC	ctg14210	12	TNFSF10
78965	I		S	ACTCACTGAGTCACTGAGTCTTCAAAGTTCCTGCTTATTCATTACAGATCTTAA			
78965	P	G	S	CGCGCCGAGGCCTCCTTTCCCTCATCCA			
78965	P	A	S	CGCGCCGAGGTCTCCTTTCCCTCATCCAT			
78965	T	G	S	TTCCATGGATGAGGGAAAGGAGGTAAGATCTGTAATGAATAAGCAGGAACTTTGAAGACTCAGTGACTCAGTGAGTAA			
78965	T	A	S	TTCCATGGATGAGGGAAAGGAGATAAGATCTGTAATGAATAAGCAGGAACTTTGAAGACTCAGTGACTCAGTGAGTAA			
78965	IS	[GA]		CTGCCTCAATTTACAGTGTGAGTGTGCTCACCTCCTTTGGGGACTGTATATCCAGAGGACCCTCCTCAATAAAACACTTTATAAATAACATCCTTCCATGGATGAGGGAAA GGAG[GA]TAAGATCTGTAATGAATAAGCAGGAACTTTGAAGACTCAGTGACTCAGTGAGTAATAAAGACTCAGTGACTTCTGATCCTGTCCTAACTG			
87787	I		A	CCGCCATCCACACTCCCAGGGTCTGA			
87787	P	C	A	CGCGCCGAGGCGGTGAAATCGAATTTATTCTCATT			
87787	P	T	A	CGCGCCGAGGTGGTGAAATCGAATTTATTCTCATTC			
87787	T	C	A	ATGAGAATGAGAATAAATTCGATTTCACCGCAGACCCTGGGAGTGTGGATGGCGGAG			
87787	T	T	A	ATGAGAATGAGAATAAATTCGATTTCACCACAGACCCTGGGAGTGTGGATGGCGGAG			
87787	IS	[CT]		CAAACACACTGTGCCTGGCCCTGCTGAGAGGGTCACGTGTGTGCCAGGCTGGTTCCAGGCTCCGCCATCCACACTCCCAGGGTCTG[CT]GGTGAAATCGAATTTATTCTCA TTCTCATCATTAGAAGTATGTCTAATTTAGAAAGAAGCCACATTGAACTCTGACTCCTGTTGTCCCCT			
34998	I		A	GCTGGCTGCAGGGCAGTGCCAC			
34998	P	A	A	CGCGCCGAGGAGGATCTAGCTGGGCY			
34998	P	T	A	ATGACGTGGCAAACTGGATCTAGCTGGGCY			
34998	T	A	A	GCCAGCCCAGCTAGATCCTTGGCACTGCCCTGCAGCCAGCCC			
34998	T	T	A	GCCAGCCCAGCTAGATCCATGGCACTGCCCTGCAGCCAGCCC			
34998	IS	[AT]		CCTCCCCTGGCCCTGCTTCAGACACCACATCTACCTGGGGCTGGCTGCAGGGCAGTGCCA[AT]GGATCTAGCTGGGCTGGCCCAAAGCTGCCTCCCACACTGGATAGAGG GTGAACAGTGGT	ctg22fin4	22	
38339	I		S	CTTACTGTCCCGGGCTTACCAGATGACCAGT			
38339	P	G	S	CGCGCCGAGGCTAATGTTTTAAGTGAATGGATAAGTY			
38339	P	C	S	ATGACGTGGCAGACGTAATGTTTAAGTGAATGGATAAGTY			
38339	T	G	S	TTTAACTTATCCATTCACTTAAAACATTAGCTGGTCATCTGGTAAGCCCGGGACAGTAAGCC			
38339	T	C	S	TTTAACTTATCCATTCACTTAAAACATTACCTGGTCATCTGGTAAGCCCGGGACAGTAAGCC			
38339	IS	[GC]		TTGTGAGCTCACTCCACCCCTTCTTCCTCCCTTAACTTATCCATTCACTTAAAACATTA[GC]CTGGTCATCTGGTAAGCCCGGGACAGTAAGCCGAGTGGCTGTTGGAGT CGGTATTGTTGG	ctg22fin4	22	

FIGURE 129C

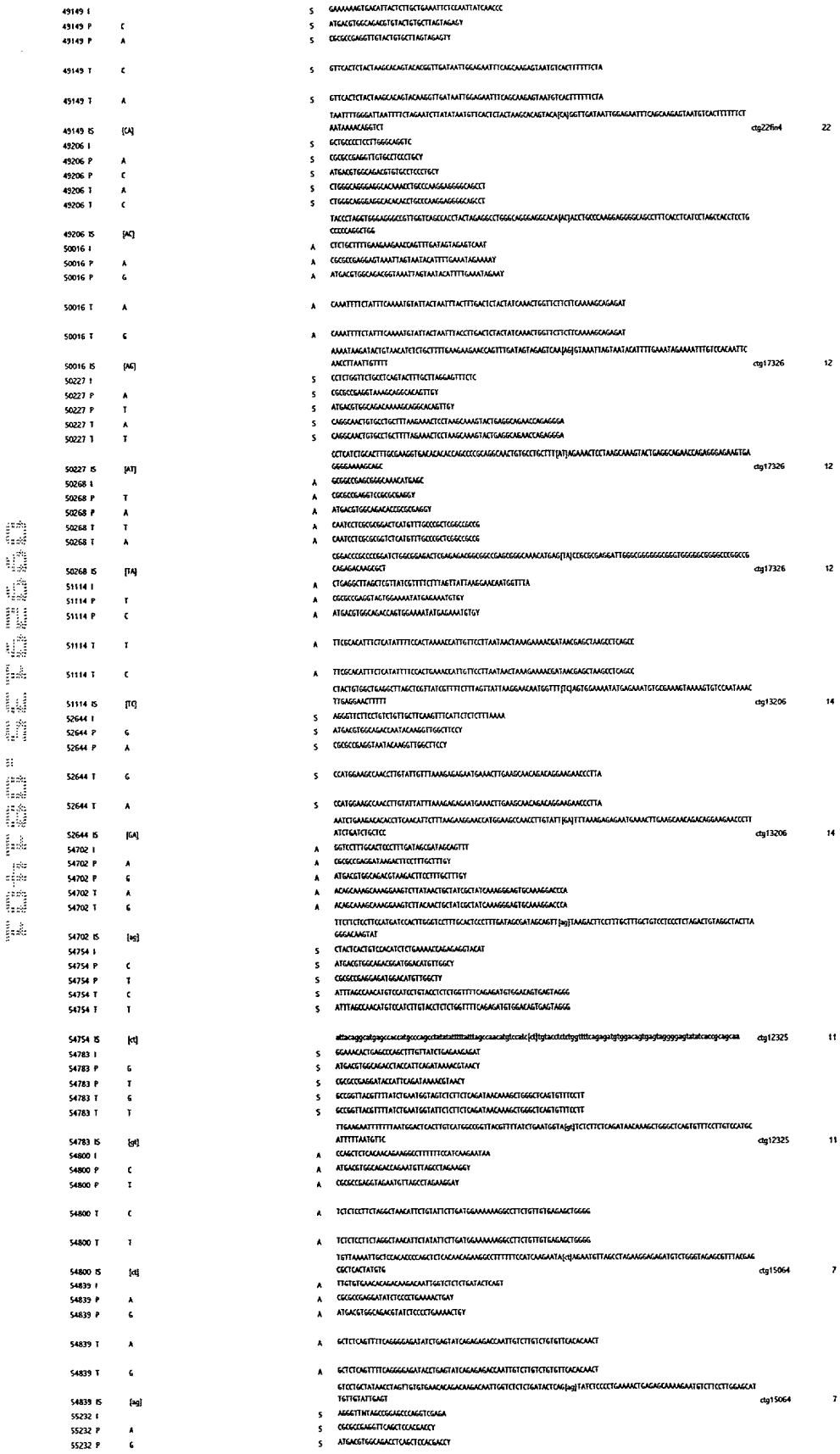


FIGURE 129C

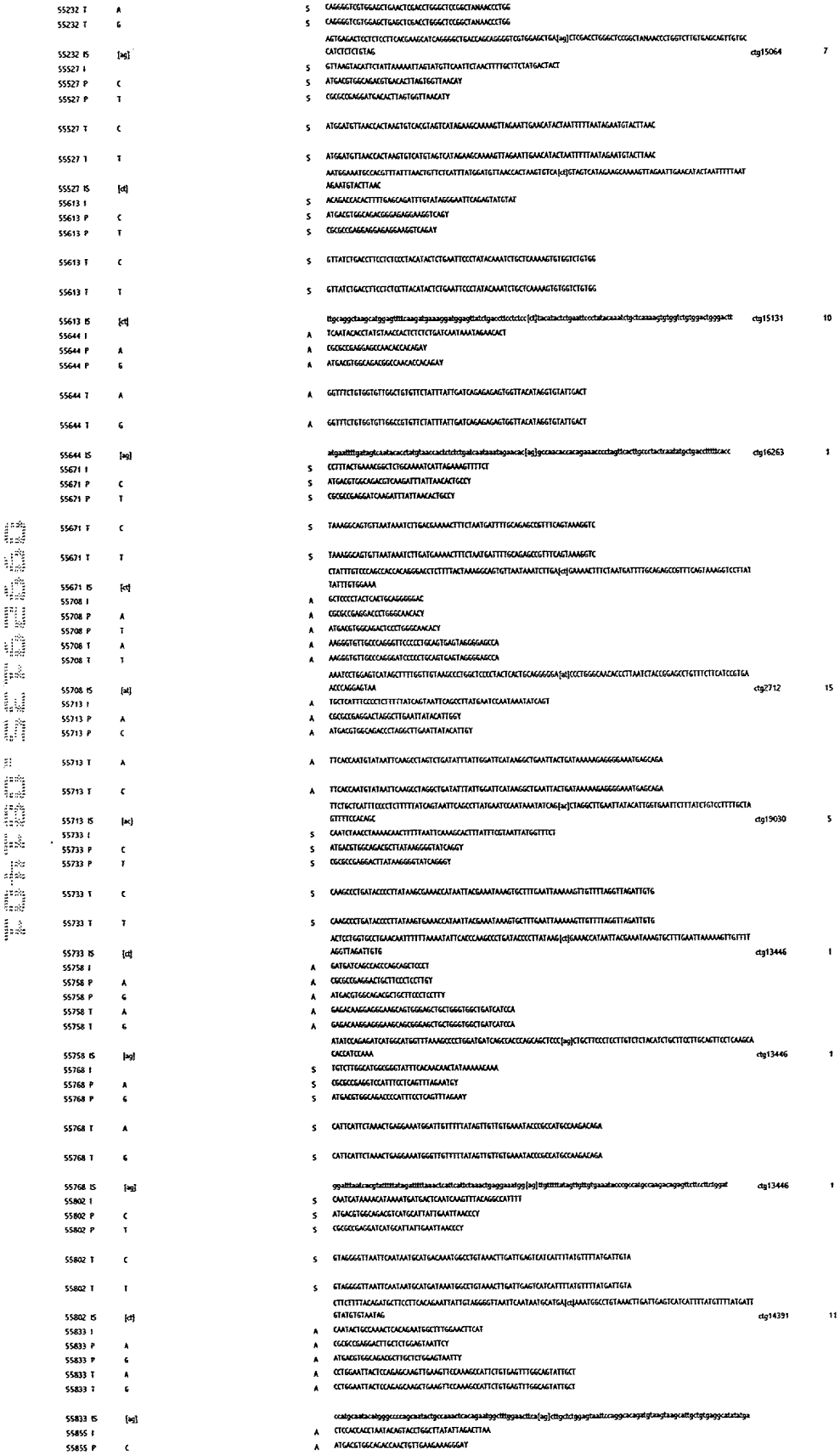


FIGURE 129C

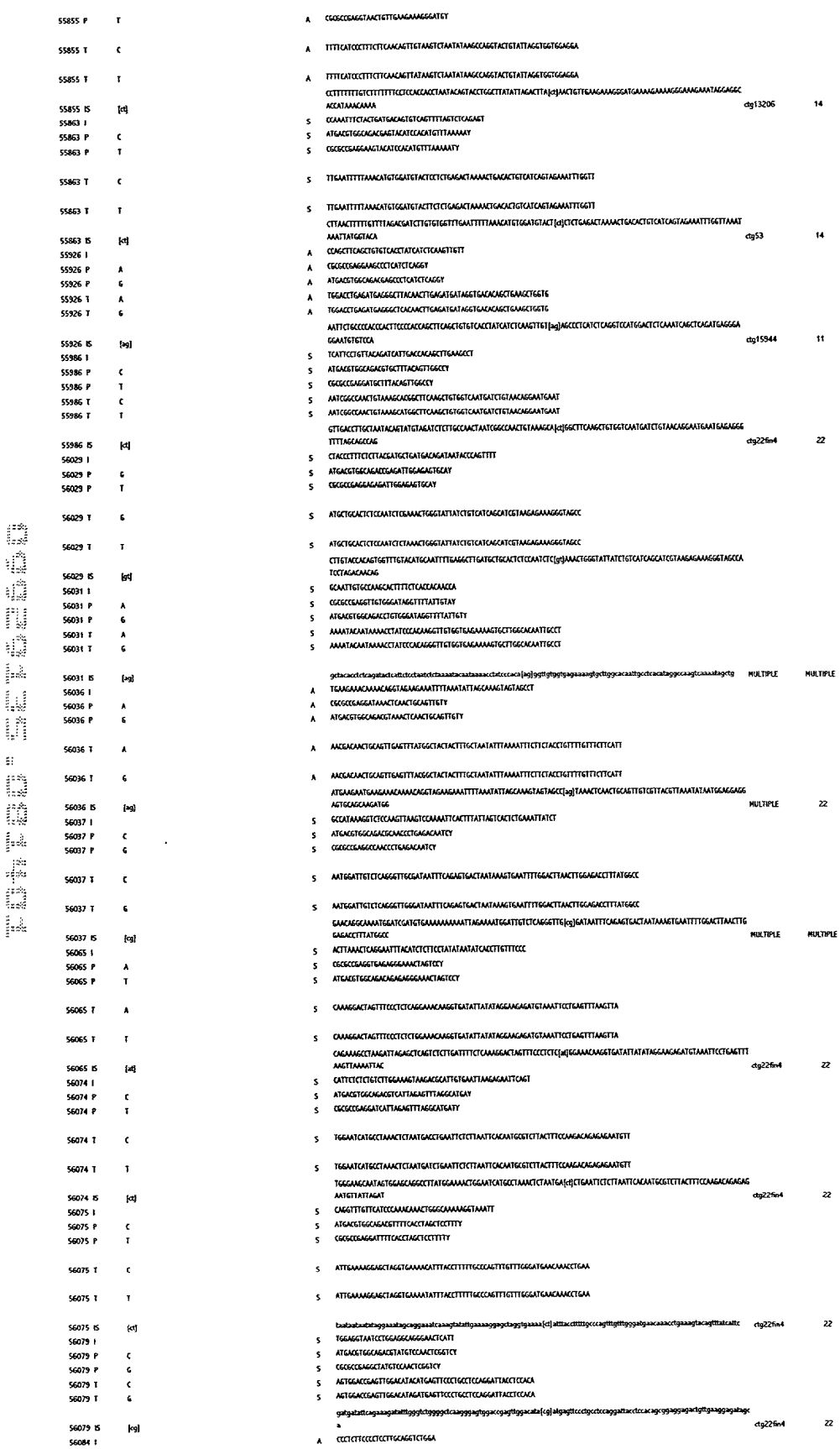

55855 P T A CGGCCGAGGTAACTGTTGAAGAAAGGGATGT
55855 T C A TTTTCATCCCTTCTTCAACAGTTGTAAGTCTAATATAAGCCAGGTACTGTATTAGGTGGTGGAGGA
55855 T T A TTTTCATCCCTTCTTCAACAGTTATAAGTCTAATATAAGCCAGGTACTGTATTAGGTGGTGGAGGA
55855 IS [ct] CCTTTTTTGTGTCTTTTTTCCTCCACCACCTAATACAGTACCTGGCTATATTAGACTTA[ct]AACTGTTGAAGAAAGGGATGAAAAGAAAAGGGAAAGAAATAGGAGGC ACCATAAACAAAA ctg13206 14
55863 I S CCAAATTTCTACTGATGACAGTGTCAGTTTTAGTCTCAGAGT
55863 P C S ATGACGTGGCAGACGAGTACATCCACATGTTTAAAAAY
55863 P T S CGCGCCGAGGAAGTACATCCACATGTTTAAAAAY
55863 T C S TTGAATTTTTAAACATGTGGATGTACTCCTCTGAGACTAAAACTGACACTGTCATCAGTAGAAATTTGGTT
55863 T T S TTGAATTTTTAAACATGTGGATGTACTTCTCTGAGACTAAAACTGACACTGTCATCAGTAGAAATTTGGTT
55863 IS [ct] CTTAACTTTTTGTTTTAGACGATCTTGTGTGGTTTGAATTTTTAAACATGTGGATGTACT[ct]CTCTGAGACTAAAACTGACACTGTCATCAGTAGAAATTTGGTTAAAT AAATTATGGTACA ctg53 14
55926 I A CCAGCTTCAGCTGTGTCACCTATCATCTCAAGTTGTT
55926 P A A CGCGCCGAGGAAGCCCTCATCTCAGGY
55926 P G A ATGACGTGGCAGACGAGCCCTCATCTCAGGY
55926 T A A TGGACCTGAGATGAGGGCTTACAACTTGAGATGATAGGTGACACAGCTGAAGCTGGTG
55926 T G A TGGACCTGAGATGAGGGCTCACAACTTGAGATGATAGGTGACACAGCTGAAGCTGGTG
55926 IS [ag] AATTCTGCCCCACCCACTTCCCCACCAGCTTCAGCTGTGTCACCTATCATCTCAAGTTG[ag]AGCCCTCATCTCAGGTCCATGGACTCTCAAATCAGCTCAGATGAGGGA GGAATGTGTCCA ctg15944 11
55986 I S TCATTCCTGTTACAGATCATTGACCACAGCTTGAAGCCT
55986 P C S ATGACGTGGCAGACGTGCTTTACAGTTGGCCY
55986 P T S CGCGCCCGAGGATGCTTTACAGTTGGCCY
55986 T C S AATCGGCCAACTGTAAAGCACGGCTTCAAGCTGTGGTCAATGATCTGTAACAGGAATGAAT
55986 T T S AATCGGCCAACTGTAAAGCATGGCTTCAAGCTGTGGTCAATGATCTGTAACAGGAATGAAT
55986 IS [ct] GTTGACCTTGCTAATACAGTATGTAGATCTCTTGCCAACTAATCGGCCAACTGTAAAGCA[ct]GGCTTCAAGCTGTGGTCAATGATCTGTAACAGGAATGAATGAGAGGG TTTTAGCAGCCAG ctg22fin4 22
56029 I S CTACCCTTTCTCTTACGATGCTGATGACAGATAATACCCAGTTTT
56029 P G S ATGACGTGGCAGACCGAGATTGGAGAGTGCAY
56029 P T S CGCGCCGAGGAGAGATTGGAGAGTGCAY
56029 T G S ATGCTGCACTCTCCAATCTCGAAACTGGGTATTATCTGTCATCAGCATCGTAAGAGAAAGGGTAGCC
56029 T T S ATGCTGCACTCTCCAATCTCTAAACTGGGTATTATCTGTCATCAGCATCGTAAGAGAAAGGGTAGCC
56029 IS [gt] CTTGTACCACAGTGGTTTGTACATGCAATTTTGAGGCTTGATGCTGCACTCTCCAATCTC[gt]AAACTGGGTATTATCTGTCATCAGCATCGTAAGAGAAAGGGTAGCCA TCCTAGACAACAG
56031 I S GCAATTGTGCCAAGCACTTTTCTCACCACAACCA
56031 P A S CGCGCCGAGGTTGTGGGATAGGTTTTATTGTAY
56031 P G S ATGACGTGGGCAGACCTGTGGGATAGGTTTTATTGTY
56031 T A S AAAATACAATAAAACCTATCCCACAAGGTTGTGGTAGAAAAAGTGCTTGGCACAATTGCCT
56031 T G S AAAATACAATAAAACCTATCCCACAAGGTTGTGGTAGAAAAAGTGCTTGGCACAATTGCCT
56031 IS [ag] gctacacctctcagatactcattctcctaatctctaaaatacaataaaacctatcccaca[ag]ggttgttggtagaaaaagtgcttggcacaattgcctcacatagggccaagtcaaaatagctg MULTIPLE MULTIPLE
56036 I A TGAAGAAACAAAACAGGTAGAAGAAATTTTAAATATTAGCAAAGTAGTAGCCT
56036 P A A CGCGCCGAGGATAAACTCAACTGCAGTTGTY
56036 P G A ATGACGTGGCAGACGTAAACTCAACTGCAGTTGTY
56036 T A A AACGACAACTGCAGTTGAGTTTATGGCTACTACTTTGCTAATATTTAAAATTTCTTCTACCTGTTTTGTTTCTTCATT
56036 T G A AACGACAACTGCAGTTGAGTTTACGGCTACTACTTTGCTAATATTTAAAATTTCTTCTACCTGTTTTGTTTCTTCATT
56036 IS [ag] ATGAAGAATGAAGAAACAAAACAGGTAGAAGAAATTTTAAATATTAGCAAAGTAGTAGCC[ag]TAAACTCAACTGCAGTTGTCGTTACGTTAAATATAATGGAGGAGG AGTGCAGCAAGATGG MULTIPLE 22
56037 I S GCCATAAAGGTCTCCAAGTTAAGTCCAAAATTCACTTTATTAGTCACTCTGAAATTATCT
56037 P C S ATGACGTGGCAGACGCAACCCTGAGACAATCY
56037 P G S CGCGCCGAGGCCAACCCTGAGACAATCY
56037 T C S AATGGATTGTCTCAGGGTTGCGATAATTTCAGAGTGACTAATAAAGTGAATTTTGGACTTAACTTGGAGACCTTTATGGCC
56037 T G S AATGGATTGTCTCAGGGTTGGGATAATTTCAGAGTGACTAATAAAGTGAATTTTGGACTTAACTTGGAGACCTTTATGGCC
56037 IS [cg] GAACAGGCAAAATGGATCGATGTGAAAAAAAAAATTAGAAAATGGATTGTCTCAGGGTTG[cg]GATAATTTCAGAGTGACTAATAAAGTGAATTTTGGACTTAACTTG GAGACCTTTATGGCC MULTIPLE MULTIPLE
56065 I S ACTTAAACTCAGGAATTTACATCTCTTCCTATATAATATCACCTTGTTTCCC
56065 P A S CGCGCCGAGGTGAGAGGGAAACTAGTCCY
56065 P T S ATGAGCTGGCAGACAGAGAGGGAAACTAGTCCY
56065 T A S CAAAGGACTAGTTTCCCTCTCAGGAAACAAGGTGATATTATATAGGAAGAGATGTAAATTCCTGAGTTTAAGTTA
56065 T T S CAAAGGACTAGTTTCCCTCTCTGGAAACAAGGTGATATTATATAGGAAGAGATGTAAATTCCTGAGTTTAAGTTA
56065 IS [at] CAGAAAGCCTAAGATTACAGCTCAGTCTCTTGATTTTCTCAAAGGACTAGTTTCCCTCTC[at]GGAAACAAGGTGATATTATATAGGAAGAGATGTAAATTCCTGAGTTT AAGTTAAAATTAC ctg22fin4 22
56074 I S CATTCTCTCTGTCTTGGAAAGTAAGACGCATTGTGAATTAAGAGAATTCAGT
56074 P C S ATGACGTGGCAGACGTCATTAGAGTTTAGGCATGAY
56074 P T S CGCGCCGAGGATCATTAGAGTTTAGGCATGATY
56074 T C S TGGAATCATGCCTAAACTCTAATGACCTGAATTCTCTTAATTCACAATGCGTCTTACTTTCCAAGACAGAGAGAATGTT
56074 T T S TGGAATCATGCCTAAACTCTAATGATCTGAATTCTCTTAATTCACAATGCGTCTTACTTTCCAAGACAGAGAGAATGTT
56074 IS [ct] TGGGAAGCAATAGTGGAGCAGGCCTTATGCAAAACTGGAATCATGCCTAAACTCTAATGA[ct]CTGAATTCTCTTAATTCACAATGCGTCTTACTTTCCAAGACAGAGAG AATGTTATTAGAT ctg22fin4 22
56075 I S CAGGTTTGTTCATCCCAAACAAACTGGGCAAAAAGTAAATT
56075 P C S ATGACGTGGCAGACGTTTTCACCTAGCTCCTTTY
56075 P T S CGCGCCGAGGATTTTCACCTAGCTCCTTTTY
56075 T C S ATTGAAAAGGAGCTAGGTGAAAACATTTACCTTTTTGCCCAGTTTGTTTGGGATGAACAAACCTGAA
56075 T T S ATTGAAAAGGAGCTAGGTGAAAATATTTACCTTTTTGCCCAGTTTGTTTGGGATGAACAAACCTGAA
56075 IS [ct] taataataatataggaaaatagcaggaaaatcaaagtatatgaaaaggagctaggtgaaaa[ct]atttaccttttgcccagtttgtttgggatgaacaaacctgaaagtacagtttatcattc ctg22fin4 22
56079 I S TGGAGGTAATCCTGGAGGCAGGGAACTCATT
56079 P C S ATGACGTGGCAGACGTATGTCCAACTCGGTCY
56079 P G S CGCGCCGAGGCTATGTCCAACTCGGTCY
56079 T C S AGTGGACCGAGTTGGACATACATGAGTTCCCTGCCTCCAGGATTACCTCCACA
56079 T G S AGTGGACCGAGTTGGACATAGATGAGTTCCCTGCCTCCAGGATTACCTCCACA
56079 IS [cg] gatgatatttcagaaaagatatttgggtctggggctcaagggagtggaccgagttggacata[cg]atgagttccctgcctccaggattacctccacagcggaggagactgttgaaggagatagc a ctg22fin4 22
56084 I A CCCTCTTCCCCTCCTTGCAGGTCTGGA

FIGURE 129C

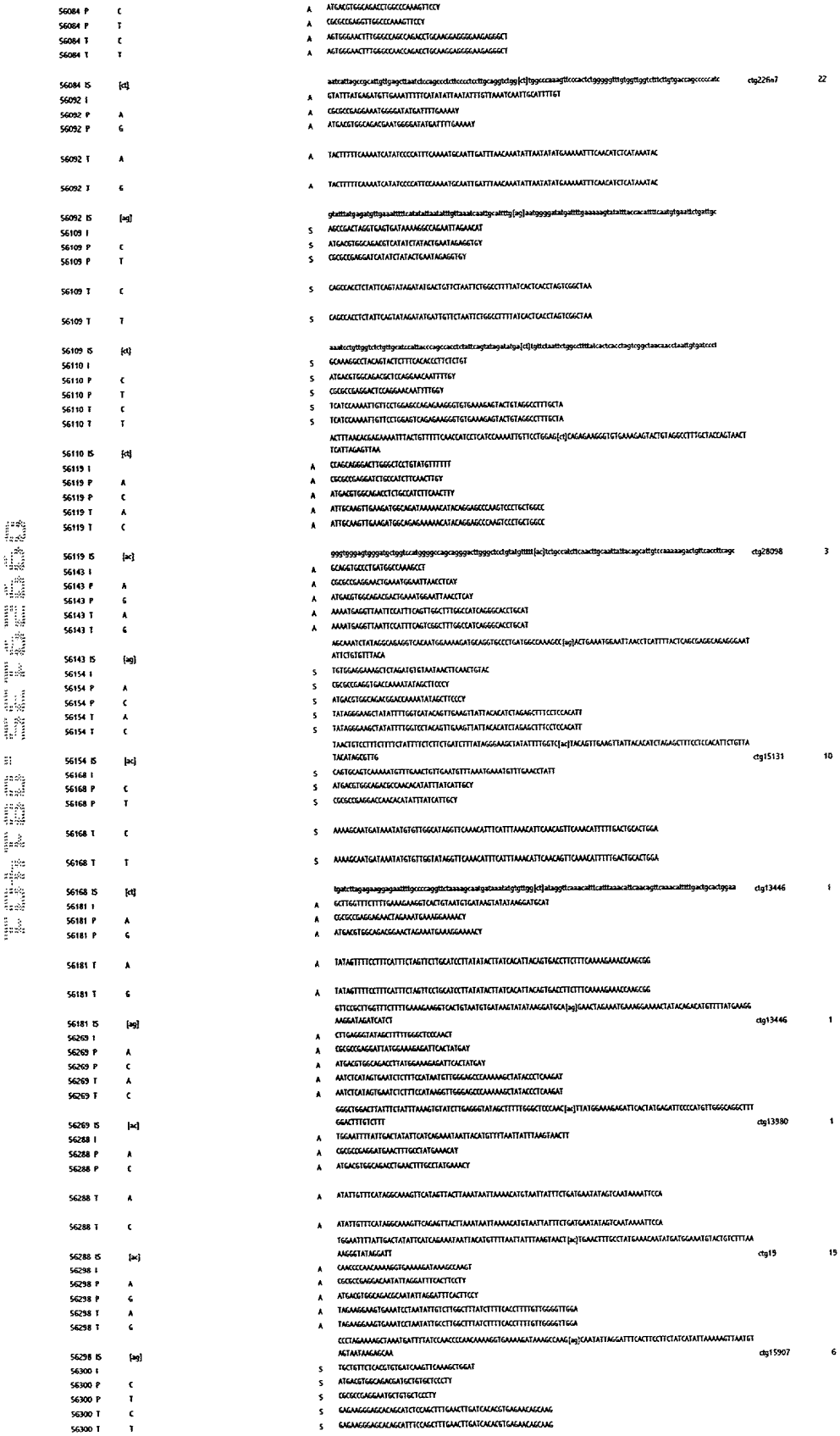


FIGURE 129C

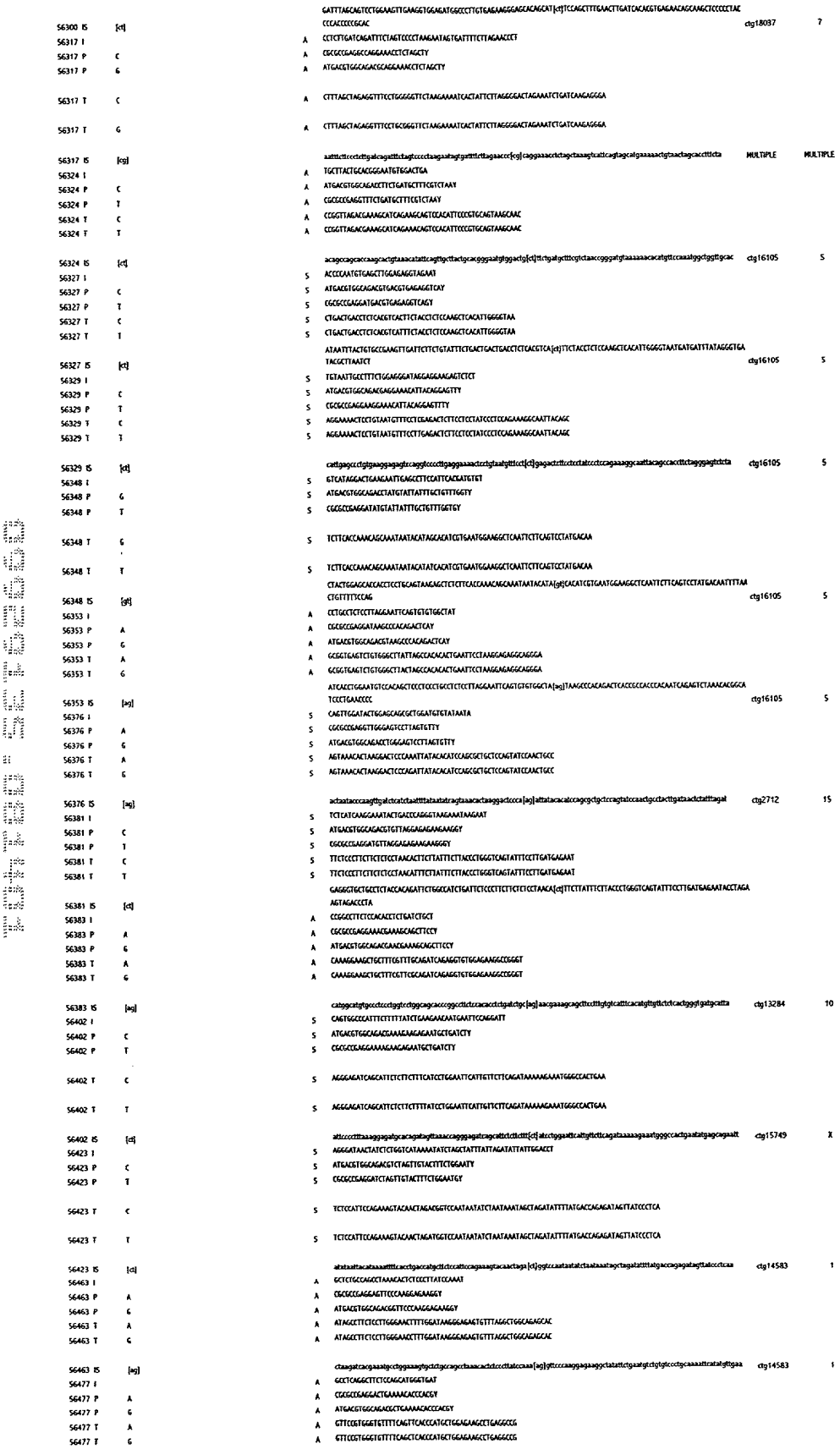


FIGURE 129C

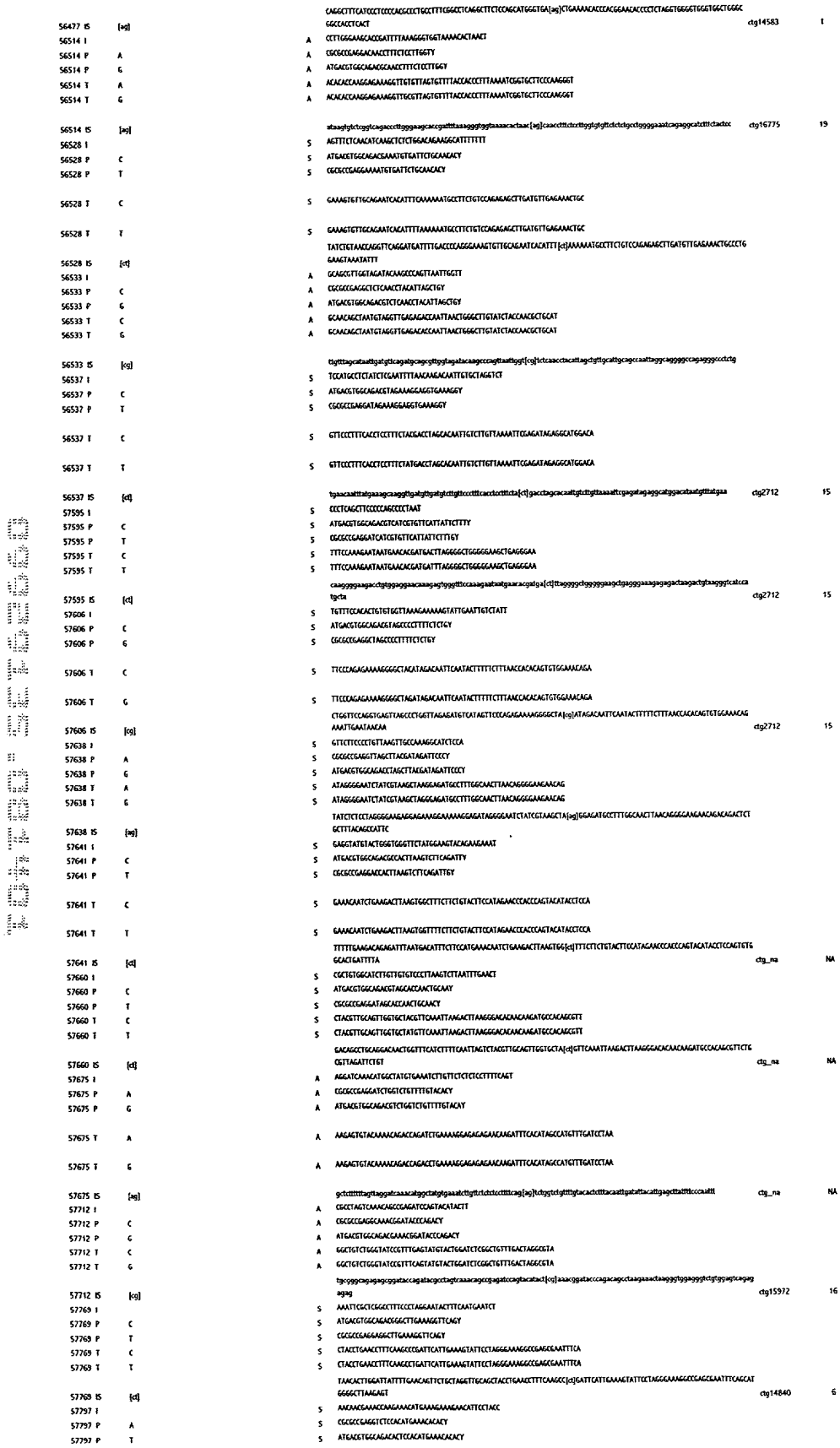


FIGURE 129C

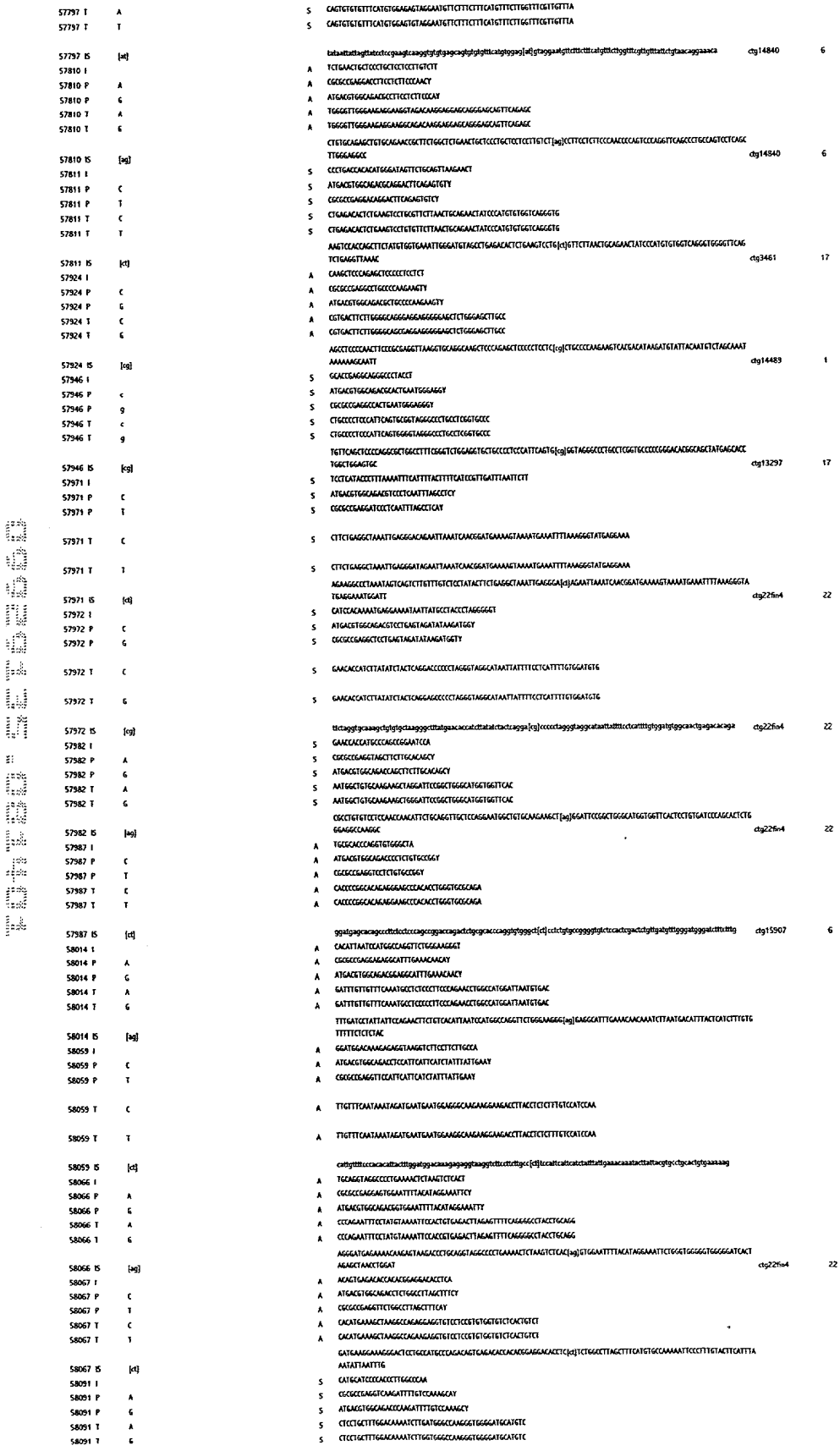


FIGURE 129C

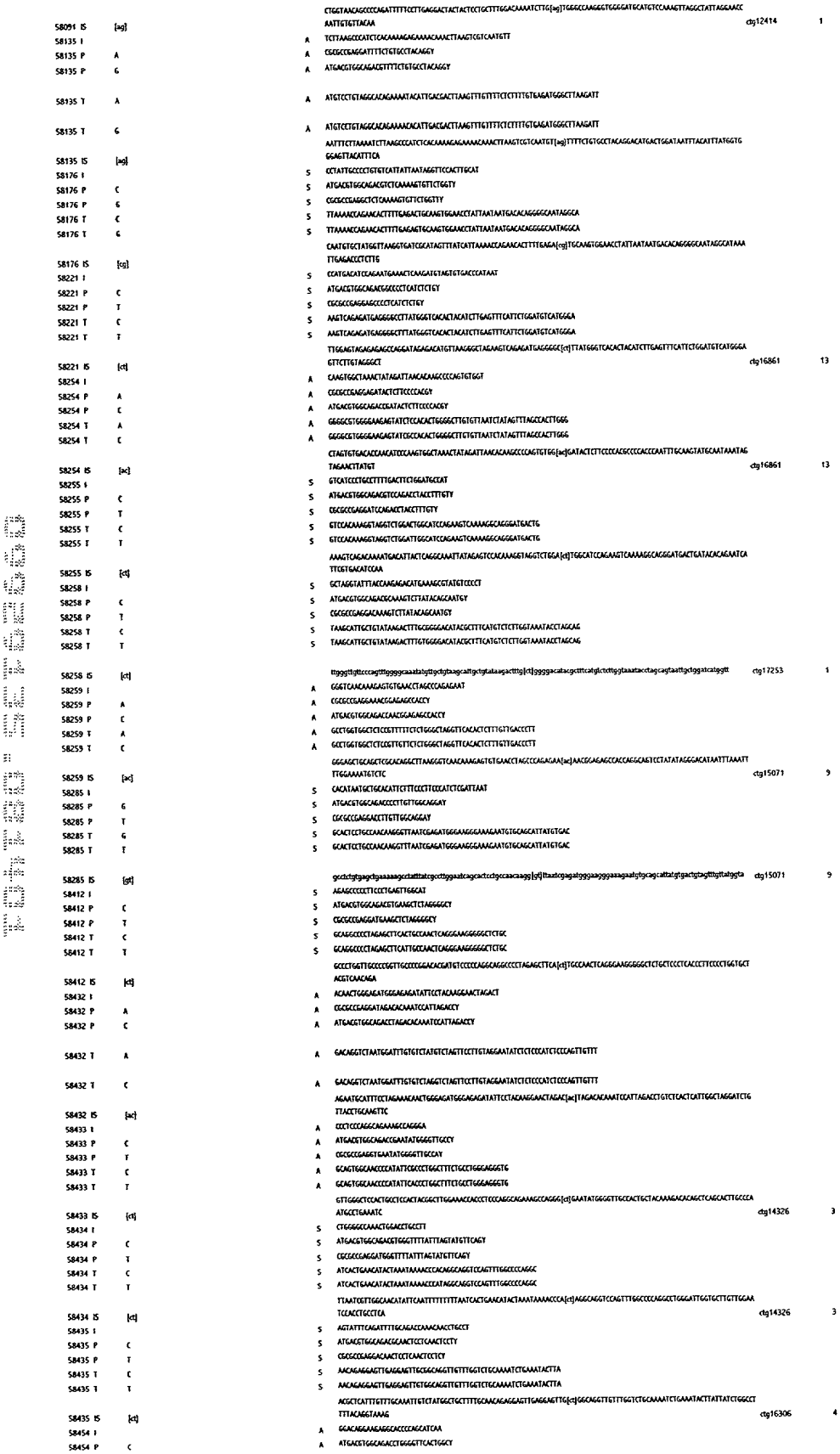


FIGURE 129C

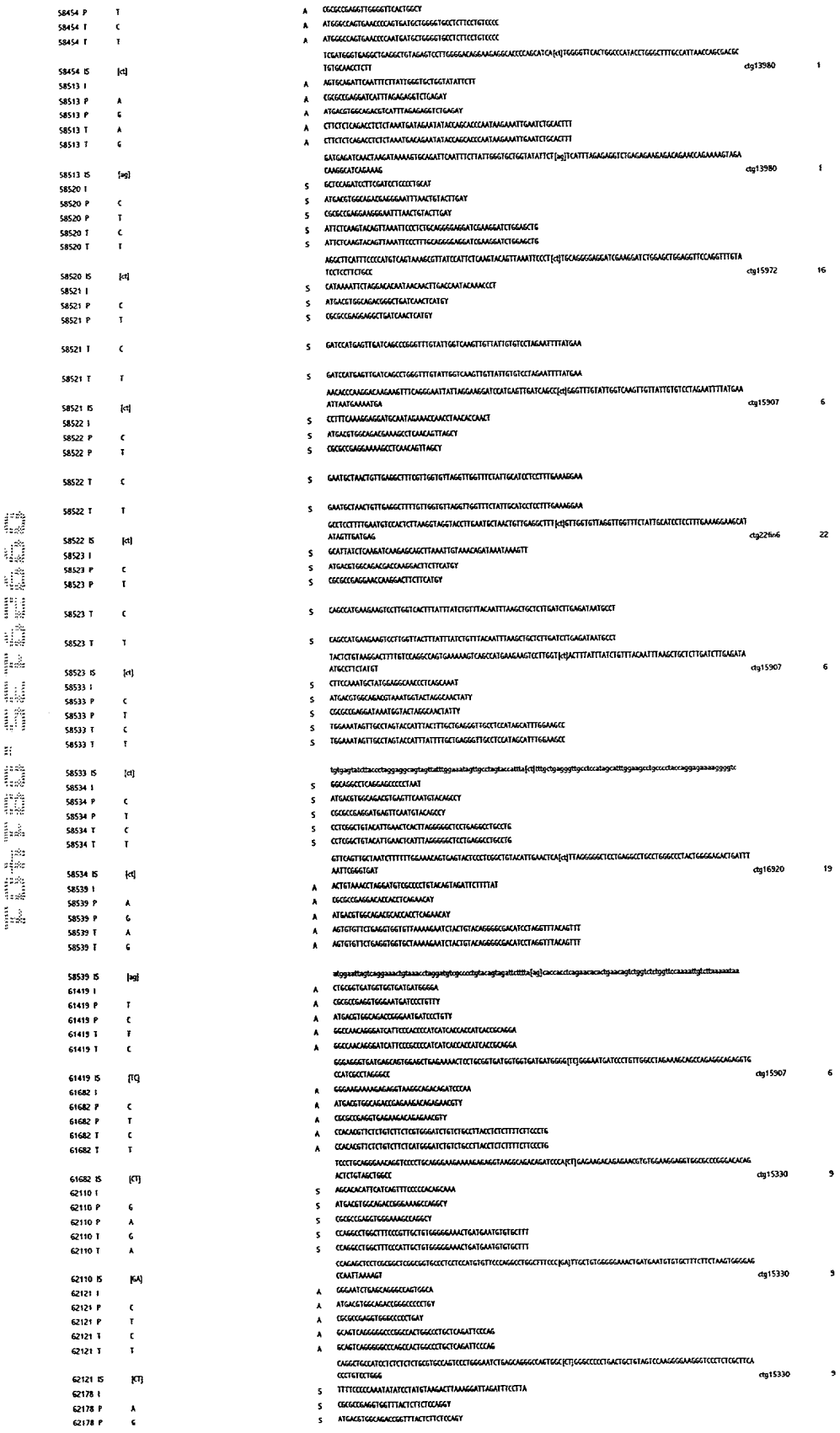


FIGURE 129C

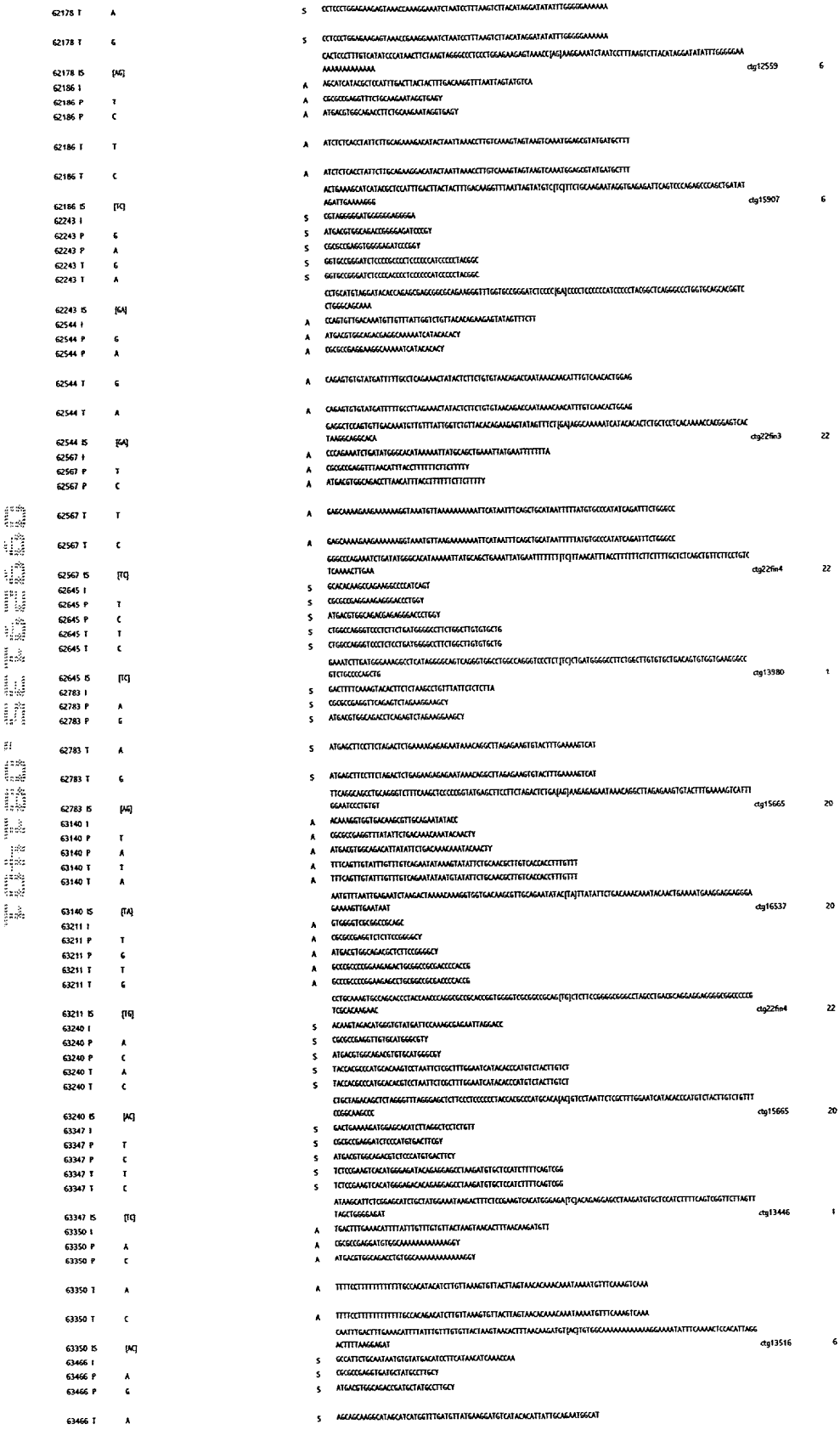


FIGURE 129C

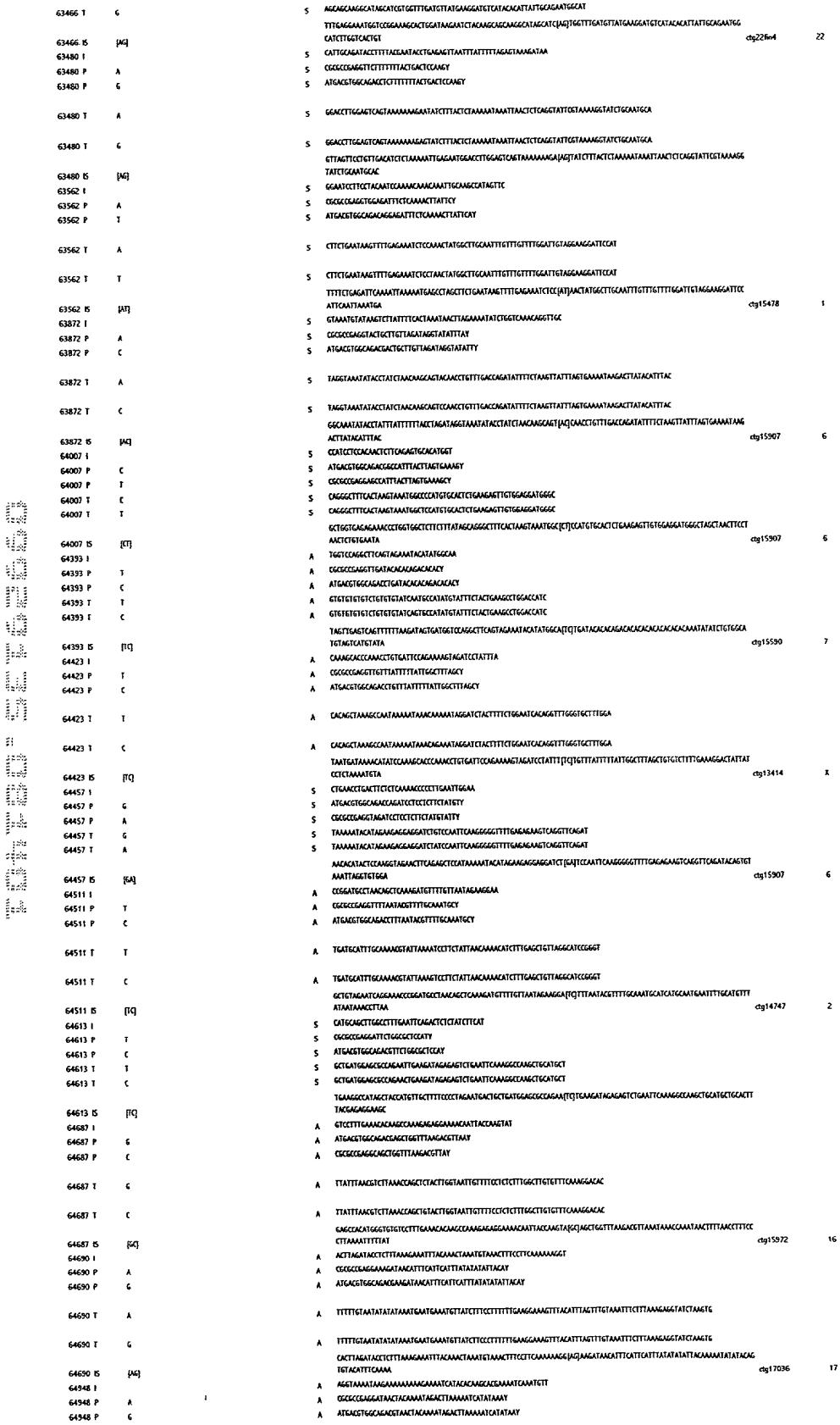

63466 T G S AGCAGCAAGGCATAGCATCGTGGTTTGATGTTATGAAGGATGTCATACACATTATTGCAGAATGGCAT
63466 IS [AG] TTTGAGGAAATGGTCCGGAAAGCACTGGATAAGAATCTACAAGCAGCAAGGCATAGCATC[AG]TGGTTTGATGTTATGAAGGATGTCATACACATTATTGCAGAATGG CATCTTGGTCACTGT ctg22fm4 22
63480 I S CATTGCAGATACCTTTTACCAATACCTGAGAGTTAATTTATTTTTAGAGTAAAGATAA
63480 P A S CGGCCCGAGGTTCTTTTTTACTGACTCCAAGY
63480 P G S ATGACGTGGCAGACCTCTTTTTTACTGACTCCAAGY
63480 T A S GGACCTTGGAGTCAGTAAAAAAAGAATATCTTTACTCTAAAAATAAATTAACTCTCAGGTATTCGTAAAAGGTATCTGCAATGCA
63480 T G S GGACCTTGGAGTCAGTAAAAAAAGAGTATCTTTACTCTAAAAATAAATTAACTCTCAGGTATTCGTAAAAGGTATCTGCAATGCA
63480 IS [AG] GTTAGTTCCTGTTGACATCTCTAAAAATTGAGAATGGACCTTGGAGTCAGTAAAAAAAGA[AG]TATCTTTACTCTAAAAATAAATTAACTCTCAGGTATTCGTAAAAGG TATCTGCAATGCAC
63562 I S GGAATCCTTCCTACAATCCAAAACAAACAAATTGCAAGCCATAGTTC
63562 P A S CGCGCCGAGGTGGAGATTTCTCAAAACTTATTCY
63562 P T S ATGACGTGGCAGACAGGAGATTTCTCAAAACTTATTCAY
63562 T A S CTTCTGAATAAGTTTTGAGAAATCTCCAAACTATGGCTTGCAATTTGTTTGTTTTGGATTGTAGGAAGGATTCCAT
63562 T T S CTTCTGAATAAGTTTTGAGAAATCTCCTAACTATGGCTTGCAATTTGTTTGTTTTGGATTGTAGGAAGGATTCCAT
63562 IS [AT] TTTTCTGAGATTCAAAATTAAAAATGAGCCTAGCTTCTGAATAAGTTTTGAGAAATCTCC[AT]AACTATGGCTTGCAATTTGTTTGTTTTGGATTGTAGGAAGGATTCC ATTCAATTAAATGA ctg15478 1
63872 I S GTAAATGTATAAGTCTTATTTTCACTAAATAACTTAGAAAATATCTGGTCAAACAGGTTGC
63872 P A S CGCGCCGAGGTACTGCTTGTTAGATAGGTATATTTAY
63872 P C S ATGACGTGGCAGACGACTGCTTGTTAGATAGGTATATTY
63872 T A S TAGGTAAATATACCTATCTAACAAGCAGTACAACCTGTTGACCAGATATTTTCTAAGTTATTTAGTGAAAATAAGACTTATACATTTAC
63872 T C S TAGGTAAATATACCTATCTAACAAGCAGTCCAACCTGTTGACCAGATATTTTCTAAGTTATTTAGTGAAAATAAGACTTATACATTTAC
63872 IS [AC] GGCAAATATACCTATTTATTTTTTACCTAGATAGGTAAATATACCTATCTAACAAGCAGT[AC]CAACCTGTTGACCAGATATTTTCTAAGTTATTTAGTGAAAATAAG ACTTATACATTTAC ctg15907 6
64007 I S CCATCCTCCACAACTCTTCAGAGTGCACATGGT
64007 P C S ATGACGTGGCAGACGGCCATTTACTTAGTGAAAGY
64007 P T S CGCGCCGAGGAGCCATTTACTTAGTGAAAGY
64007 T C S CAGGGCTTTCACTAAGTAAATGGCCCCATGTGCACTCTGAAGAGTTGTGGAGGATGGGC
64007 T T S CAGGGCTTTCACTAAGTAAATGGCTCCATGTGCACTCTGAAGAGTTGTGGAGGATGGGC
64007 IS [CT] GCTGGTGAGAGAAACCCTGGTGGCTCTTCTTTATAGCAGGGCTTTCACTAAGTAAATGGC[CT]CCATGTGCACTCTGAAGAGTTGTGGAGGATGGGCTAGCTAACTTCCT AACTCTGTGAATA ctg15907 6
64393 I A TGGTCCAGGCTTCAGTAGAAATACATATGGCAA
64393 P T A CGCGCCGAGGTTGATACACACAGACACACY
64393 P C A ATGACGTGGCAGACCTGATACACACAGACACACY
64393 T T A GTGTGTGTGTCTGTGTGTATCAATGCCATATGTATTTCTACTGAAGCCTGGACCATC
64393 T C A GTGTGTGTGTCTGTGTGTATCAGTGCCATATGTATTTCTACTGAAGCCTGGACCATC
64393 IS [TC] TAGTTGAGTCAGTTTTTTAAGATAGTGATGGTCCAGGCTTCAGTAGAAATACATATGGCA[TC]TGATACACACAGACACACACACACACACAAATATATCTGTGGCA TGTAGTCATGTATA ctg15590 7
64423 I A CAAAGCACCCAAACCTGTGATTCCAGAAAAGTAGATCCTATTTA
64423 P T A CGCGCCGAGGTTGTTTATTTTTATTGGCTTTAGCY
64423 P C A ATGACGTGGCAGACCTGTTTATTTTTATTGGCTTTAGCY
64423 T T A CACAGCTAAAGCCAATAAAAATAAACAAAAATAGGATCTACTTTTCTGGAATCACAGGTTTGGGTGCTTTGGA
64423 T C A CACAGCTAAAGCCAATAAAAATAAACAGAAATAGGATCTACTTTTCTGGAATCACAGGTTTGGGTGCTTTGGA
64423 IS [TC] TAATGATAAAACATATCCAAAGCACCCAAACCTGTGATTCCAGAAAAGTAGATCCTATTT[TC]TGTTTATTTTTATTGGCTTTAGCTGTGTCTTTTGAAAGGACTATTAT CCTCTAAAATGTA ctg13414 X
64457 I S CTGAACCTGACTTCTCTCAAAACCCCCTTGAATTGGAA
64457 P G S ATGACGTGGCAGACCAGATCCTCCTCTTCTATGTY
64457 P A S CGCGCCGAGGTAGATCCTCCTCTTCTATGTATTY
64457 T G S TAAAAATACATAGAAGAGGAGGATCTGTCCAATTCAAGGGGGGTTTTGAGAGAAGTCAGGTTCAGAT
64457 T A S TAAAAATACATAGAAGAGGAGGATCTATCCAATTCAAGGGGGTTTTGAGAGAAGTCAGGTTCAGAT
64457 IS [GA] AACACATACTCCAAGGTAGAACTTCAGAGCTCCATAAAAATACATAGAAGAGGAGGATCT[GA]TCCAATTCAAGGGGGTTTTGAGAGAAGTCAGGTTCAGATACAGTGT AAATTAGGTGTGGA ctg15907 6
64511 I A CCGGATGCCTAACAGCTCAAAGATGTTTGTTAATAGAAGGAA
64511 P T A CGCGCCGAGGTTTTAATAGGTTTTGCAAATGCY
64511 P C A ATGACGTGGCAGACCTTTAATACGTTTTGCAAATGCY
64511 T T A TGATGCATTTGCAAAAGGTATTAAAATCCTTCTATTAACAAAACATCTTTGAGCTGTTAGGCATCCGGGT
64511 T C A TGATGCATTTGCAAAAGGTATTAAAGTCCTTCTATTAACAAAACATCTTTGAGCTGTTAGGCATCCGGGT
64511 IS [TC] GCTGTAGAATCAGGAAACCCGGATGCCTAACAGCTCAAAGATGTTTGTTAATAGAAGGA[TC]TTTAATACGTTTTGCAAATGCATCATGCAATGAATTTTGCATGTTT ATAATAAAGCTTAA ctg14747 2
64613 I S CATGCAGCTTGGCCTTTGAATTCAGACTCTCTATCTTCAT
64613 P T S CGCGCCGAGGATTCTGCGCGCTCCATY
64613 P C S ATGACGTGGCAGACGTTCTGGCGCTCCAY
64613 T T S GCTGATGGAAGCGCAGAATTGAAGATAGAGAGTCTGAATTCAAAGGCCAAGCTGCATGCT
64613 T C S GCTGATGGAAGCGCCAGAACTGAAGATAGAGAGTCTGAATTCAAAGGCCAAGCTGCATGCT
64613 IS [TC] TGAAGGCCATAGCTACCATGTTGCTTTTCCCCTAGAATCACTGCTGATGAGCGCCAGAA[TC]TGAAGATAGAGAGTCTGAATTCAAAGGCCAAGCTGCATGCTGCACTT TACGAGAGGAAGC
64687 I A GTCCTTTGAAACACAAGCCAAAGAGAGGAAAACAATTACCAAGTAT
64687 P G A ATGACGTGGCAGACGAGCTGGTTTAAGACGTTAAY
64687 P C A CGCGCCGAGGCAGCTGGTTTAAGACGTTAY
64687 T G A TTATTTAACGTCTTAAACCAGCTCTACTTGGTAATTGTTTTCCTCTCTTTGGCTTGTGTTTCAAAGGACAC
64687 T C A TTATTTAACGTCTTAAACCAGCTGTACTTGGTAATTGTTTTCCTCTCTTTGGCTTGTGTTTCAAAGGACAC
64687 IS [GC] CAGCCACATGGGTGTGTCCTTTGAAACACAGCCAAAGAGAGGAAAACAATTACCAAGTA[GC]AGCTGGTTTAAGACGTTAAATAAACCAAATAACTTTTAACCTTTCC CTTAAAATTTTTAT ctg15972 16
64690 I A ACTTAGATACCTCTTTAAAGAAATTTACAAACTAAATGTAAACTTTCCTTCAAAAAGGT
64690 P A A CGCGCCGAGGAAAGATAACATTTCATTCATTTATATATATTACAY
64690 P G A ATGACGTGGCAGACGAAGATAACATTTCATTCATTTATATATATTACAY
64690 T A A TTTTTGTAATATATATAAATGAATGAAATGTTATCTTTCCTTTTTTGAAGGAAAGTTTACATTTAGTTTGTAAATTTCTTTAAAGAGGTATCTAAGTG
64690 T G A TTTTTGTAATATATATAAATGAATGAAATGTTATCTTCCTTTTTTGAAGGAAAGTTTACATTTAGTTTGTAAATTTCTTTAAAGAGGTATCTAAGTG
64690 IS [AG] CACTTAGATACCTCTTTAAAGAAATTTACAAACTAAATGTAAACTTTCCTTCAAAAAAGG[AG]AAGATAACATTTCATTCATTTATATATATTACAAAAATATATACAG TGTACATTTCAAAA ctg17036 17
64948 I A AGGTAAAATAAGAAAAAAAAAGAAAATCATACACAGCACGAAAATCAAATGTT
64948 P A A CGCGCCGAGGATAACTACAAAATAGACTTAAAAATCATATAAAY
64948 P G A ATGACGTGGCAGACGTAACTACAAAATAGACTTAAAAATCATATAAY

FIGURE 129C

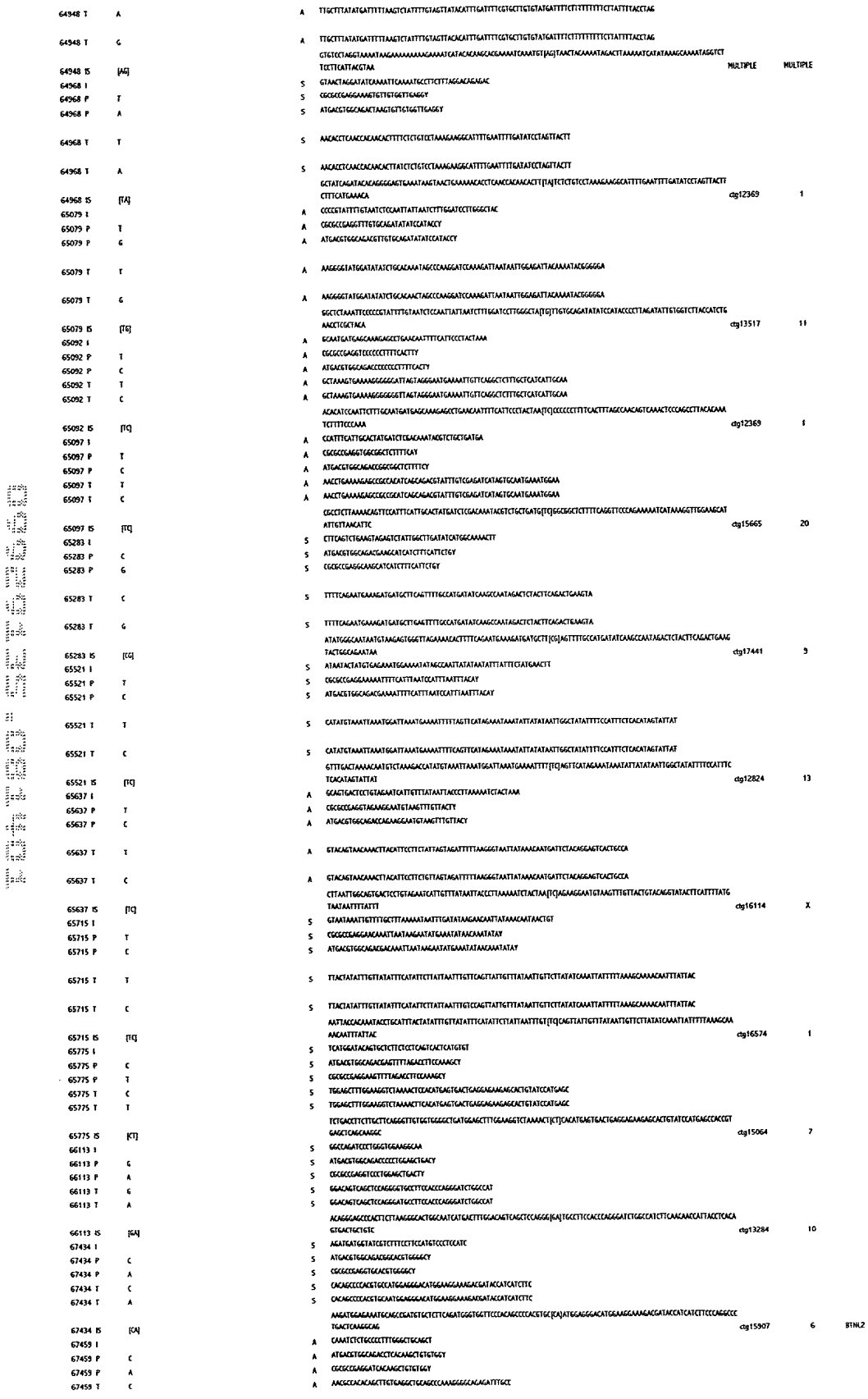

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64948 T G A TTGCTTTATATGATTTTTAAGTCTATTTTGTAGTTACACATTTGATTTTCGTGCTTGTGTATGATTTTCTTTTTTTTTCTTATTTTACCTAG
GTGTCCTAGGTAAAATAAGAAAAAAAAAAGAAAATCATACACAAGCACGAAAATCAAATGT[AG]TAACTACAAAATAGACTTAAAAATCATATAAAGCAAAATAGGTCT
64948 IS [AG] TCCTTCATTACGTAA MULTIPLE MULTIPLE
64968 I S GTAACTAGGATATCAAAATTCAAAATGCCTTCTTTAGGACAGAGAC
64968 P T S CGCGCCGAGGAAAGTGTTGTGGTTGAGGY
64968 P A S ATGACGTGGCAGACTAAGTGTTGTGGTTGAGGY
64968 T T S AACACCTCAACCACAACACTTTTCTCTGTCCTAAAGAAGGCATTTTGAATTTTGATATCCTAGTTACTT
64968 T A S AACACCTCAACCACAACACTTTATCTCTGTCCTAAAGAAGGCATTTTGAATTTTGATATCCTAGTTACTT
GCTATCAGATACACAGGGGAGTGAAATAAGTAACTGAAAAACACCTCAACCACAACACTT[TA]TCTCTGTCCTAAAGAAGGCATTTTGAATTTTGATATCCTAGTTACTT
64968 IS [TA] CTTTCATGAAACA ctg12369 1
65079 I A CCCCGTATTTTGTAATCTCCAATTATTAATCTTTGGATCCTTGGGCTAC
65079 P T A CGCGCCGAGGTTTGTGCAGATATATCCATACCY
65079 P G A ATGACGTGGCAGACGTTGTGCAGATATATCCATACCY
65079 T T A AAGGGGTATGGATATATCTGCACAAATAGCCCAAGGATCCAAAGATTAATAATTGGAGATTACAAAATACGGGGGA
65079 T G A AAGGGGTATGGATATATCTGCACAACTAGCCCAAGGATCCAAAGATTAATAATTGGAGATTACAAAATACGGGGGA
GGCTCTAAATTCCCCCGTATTTTGTAATCTCCAATTATTAATCTTTGGATCCTTGGGCTA[TG]TTGTGCAGATATATCCATACCCCTTAGATATTGTGGTCTTACCATCTG
65079 IS [TG] AACCTCGCTACA ctg13517 11
65092 I A GCAATGATGAGCAAAGAGCCTGAACAATTTTCATTCCCTACTAAA
65092 P T A CGCGCCGAGGTCCCCCCTTTTCACTTY
65092 P C A ATGACGTGGCAGACCCCCCCTTTTCACTY
65092 T T A GCTAAAGTGAAAAGGGGGGATTAGTAGGGAATGAAAATTGTTCAGGCTCTTTGCTCATCATTGCAA
65092 T C A GCTAAAGTGAAAAGGGGGGGTTAGTAGGGAATGAAAATTGTTCAGGCTCTTTGCTCATCATTGCAA
ACACATCCAATTCTTTGCAATGATGAGCAAAGAGCCTGAACAATTTTCATTCCCTACTAA[TC]CCCCCCTTTTCACTTTAGCCAACAGTCAAACTCCCAGCCTTACACAAA
65092 IS [TC] TCTTTTCCCAAA ctg12369 1
65097 I A CCATTTCATTGCACTATGATCTCCACAAATAGGTCTGCTGATGA
65097 P T A CGCGCCGAGGTGGCGGCTCTTTTCAY
65097 P C A ATGACGTGGCAGACCGGCGGCTCTTTTCY
65097 T T A AACCTGAAAAGAGCCGCCACATCAGCAGACGTATTTGTCGAGATCATAGTGCAATGAAATGGAA
65097 T C A AACCTGAAAAGAGCCGCCGCATCAGCAGACGTATTTGTCGAGATCATAGTGCAATGAAATGGAA
CGCCTCTTAAAACAGTTCCATTTCATTGCACTATGATCTCGACAAATAGGTCTGCTGATG[TC]GGCGGCTCTTTTCAGGTTCCCAGAAAAATCATAAAGGTTGGAAGCAT
65097 IS [TC] ATTGTTAACATTC ctg15665 20
65283 I S CTTCAGTCTGAAGTAGAGTCTATTGGCTTGATATCATGGCAAAACTT
65283 P C S ATGACGTGGCAGACGAAGCATCATCTTTCATTCTGY
65283 P G S CGCGCCGAGGCAAGCATCATCTTTCATTCTGY
65283 T C S TTTTCAGAATGAAAGATGATGCTTCAGTTTTGCCATGATATCAAGCCAATAGACTCTACTTCAGACTGAAGTA
65283 T G S TTTTCAGAATGAAAGATGATGCTTGAGTTTTGCCATGATATCAAGCCAATAGACTCTACTTCAGACTGAAGTA
ATATGGGCAATAATGTAAGAGTGGGTTAGAAAAACACTTTTCAGAATGAAAGATGATGCTT[CG]AGTTTTGCCATGATATCAAGCCAATAGACTCTACTTCAGACTGAAG
65283 IS [CG] TACTGGCAGAATAA ctg17441 9
65521 I S ATAATACTATGTGAGAAATGGAAAATATAGCAAATTATATAATATTTATTTCTATGAACTT
65521 P T S CGCGCCGAGGAAAAATTTTCATTTAATCCATTTAATTTACAY
65521 P C S ATGACGTGGCAGACGAAAATTTTCATTTAATCCATTTAATTTACAY
65521 T T S CATATGTAAATTAAATGGATTAAATGAAAATTTTTAGTTCATAGAAATAAATATTATATAATTGGCTATATTTTCCATTTCTCACATAGTATTAT
65521 T C S CATATGTAAATTAAATGGATTAAATGAAAATTTTCAGTTCATAGAAATAAATATTATATAATTGGCTATATTTTCCATTTCTCACATAGTATTAT
GTTTGACTAAAACAATGTCTAAAGACCATATGTAAATTAAATGGATTAAATGAAAATTTT[TC]AGTTCATAGAAATAAATATTATATAATTGGCTATATTTTCCATTTC
65521 IS [TC] TCACATAGTATTAT ctg12824 13
65637 I A GCAGTGACTCCTGTAGAATCATTGTTTATAATTACCCTTAAAAATCTACTAAA
65637 P T A CGCGCCCAGGTAGAAGGAATGTAAGTTTGTTACTY
65637 P C A ATGACGTGGCAGACGAAGGAATGTAAGTTTGTTACY
65637 T T A GTACAGTAACAAACTTACATTCCTTCTATTAGTAGATTTTTAAGGGTAATTATAAACAATGATTCTACAGGAGTCACTGCCA
65637 T C A GTACAGTAACAAACTTACATTCCTTCTGTTAGTAGATTTTTAAGGGTAATTATAAACAATGATTCTACAGGAGTCACTGCCA
CTTAATTGGCAGTGACTCCTGTAGAATCATTGTTTATAATTACCCTTAAAAATCTACTAA[TC]AGAAGGAATGTAAGTTTGTTACTGTACAGGTATACTTCATTTTATG
65637 IS [TC] TAATAATTTTATTT ctg16114 X
65715 I S GTAATAAATTGTTTTGCTTTAAAAATAATTTGATATAAGAACAATTATAAACAATAACTGT
65715 P T S CGCGCCGAGGAACAAATTAATAAGAATATGAAATATAACAAATATAY
65715 P C S ATGACGTGGCAGACGAACAAATTAATAAGAATATGAAATATAACAAATATAY
65715 T T S TTACTATATTTGTTATATTTCATATTCTTATTAATTTGTTCAGTTATTGTTTATAATTGTTCTTATATCAAATTATTTTTAAAGCAAAACAATTTATTAC
65715 T C S TTACTATATTTGTTATATTTCATATTCTTATTAATTTGTCCAGTTATTGTTTATAATTGTTCTTATATCAAATTATTTTTAAAGCAAAACAATTTATTAC
AATTACCACAAATACCTGCATTTACTATATTTGTTATATTTCATATTCTTATTAATTTGT[TC]CAGTTATTGTTTATAATTGTTCTTATATCAAATTATTTTTAAAGCAA
65715 IS [TC] AACAATTTATTAC ctg16574 1
65775 I S TCATGGATACAGTGCTCTTCTCCTCAGTCACTCATGTGT
65775 P C S ATGACGTGGCAGACGAGTTTTAGACCTTCCAAAGCY
65775 P T S CGCGCCGAGGAAGTTTTAGACCTTCCAAAGCY
65775 T C S TGGAGCTTTGGAAGGTCTAAAACTCCACATGAGTGACTGAGGAGAAGAGCACTGTATCCATGAGC
65775 T T S TGGAGCTTTGGAAGGTCTAAAACTTCACATGAGTGACTGAGGAGAAGAGCACTGTATCCATGAGC
TCTGACCTTCTTGCTTCAGGGTTGTGGTGGGGCTGATGGAAGCTTTGGAAGGTCTAAAACT[CT]CACATGAGTGACTGAGGAGAAGAGCACTGTATCCATGAGCCACCGT
65775 IS [CT] GAGCTCAGCAAGGC ctg15064 7
66113 I S GGCCAGATCCCTGGGTGGAAGGCAA
66113 P G S ATGACGTGGCAGACCCCCTGGAGCTGACY
66113 P A S CGCGCCGAGGTCCCTGGAGCTGACTY
66113 T G S GGACAGTCAGCTCCAGGGGTGCCTTCCACCCAGGGATCTGGCCAT
66113 T A S GGACAGTCAGCTCCAGGGCATGCCTTCCACCCAGGGATCTGGCCAT
ACAGGCAGCCCACTCCTTAAGGGCACTGGCAATCATGACTTTGGACAGTCAGCTCCAGGG[GA]TGCCTTCCACCCAGGGATCTGGCCATCTTCAACAACCATTACCTCACA
66113 IS [GA] GTGACTGCTGTC ctg13284 10
67434 I S AGATGATGGTATCGTCTTTCCTTCCATGTCCCTCCATC
67434 P C S ATGACGTGGCAGACGGCACGTGGGGCY
67434 P A S CGCGCCGAGGTGCACGTGGGGCY
67434 T C S CACAGCCCCACGTGCCATGGAGGGACATGGAAGGAAAGACGATACCATCATCTTC
67434 T A S CACAGCCCCACGTGCAATGGAGGGACATGGAAGGAAAGACGATACCATCATCTTC
AAGATGGAGAAATGCAGCCGATGTGCTCTTCAGATGGGTGGTTCCCACAGCCCCACGTGC[CA]ATGGAGGGACATGGAAGGAAAGACGATACCATCATCTTCCCAGGCCC
67434 IS [CA] TGACTCAAGGCAG ctg15907 6 BTNL2
67459 I A CAAATCTCTGCCCCTTTGGGCTGCAGCT
67459 P C A ATGACGTGGCAGACCTCACAAGCTGTGTGGY
67459 P A A CGCGCCGAGGATCACAAGCTGTGTGGY
67459 T C A AACGCCACACAGCTTGTGAGGCTGCAGCCCAAAGGGGCACAGATTTGCC

FIGURE 129C

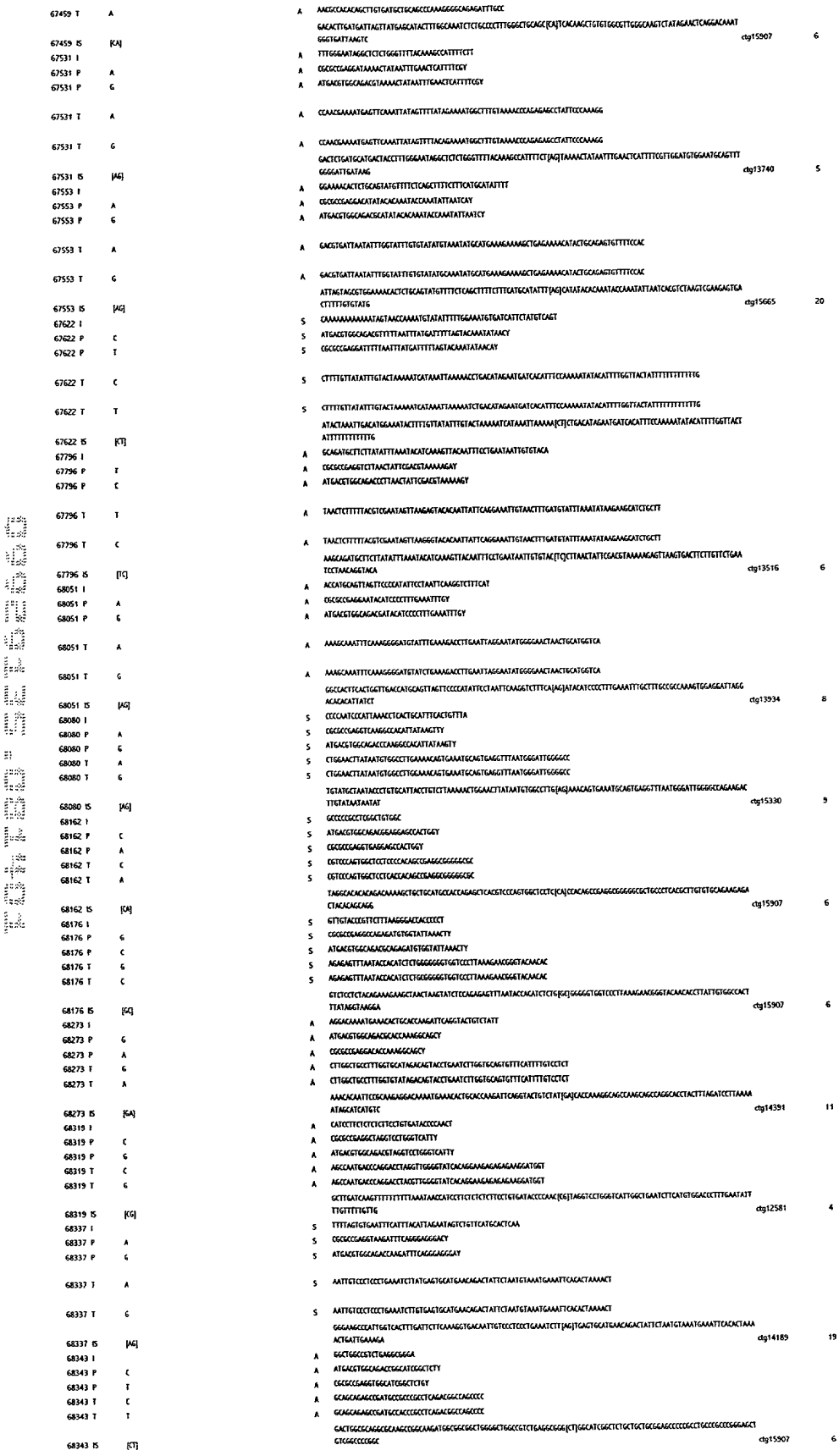


FIGURE 129C

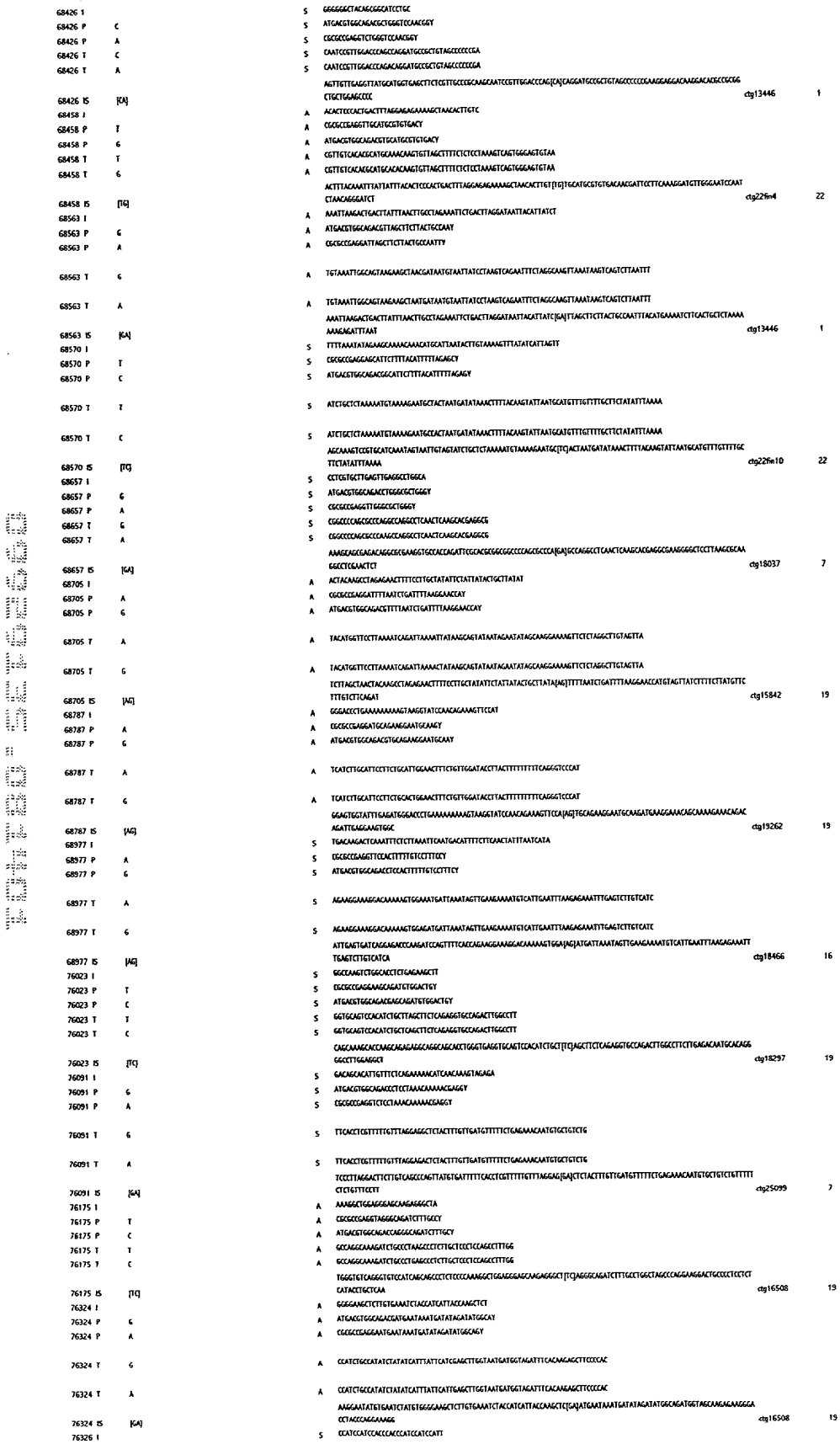

68426 1 S GGGGGGCTACAGCGGCATCCTGC
68426 P C S ATGACGTGGCAGACGCTGGGTCCAACGGY
68426 P A S CGCGCCGAGGTCTGGGTCCAACGGY
68426 T C S CAATCCGTTGGACCCAGCCAGGATGCCGCTGTAGCCCCCCGA
68426 T A S CAATCCGTTGGACCCAGACAGGATGCCGCTGTAGCCCCCCGA
AGTTGTTGAGGTTATGCATGGTGAGCTTCTCGTTGCCCGCAAGCAATCCGTTGGACCCAG[CA]CAGGATGCCGCTGTAGCCCCCCGAAGGAGGACAAGGACACGCCGCGG
68426 IS [CA] CTGCTGGAGCCCC ctg13446 1
68458 I A ACACTCCCACTGACTTTAGGAGAGAAAAGCTAACACTTGTC
68458 P T A CGCGCCGAGGTTGCATGCGTGTGACY
68458 P G A ATGACGTGGCAGACGTGCATGCGTGTGACY
68458 T T A CGTTGTCACACGCATGCAAACAAGTGTTAGCTTTTCTCTCCTAAAGTCAGTGGGAGTGTAA
68458 T G A CGTTGTCACACGCATGCACACAAGTGTTAGCTTTTCTCTCCTAAAGTCAGTGGGAGTGTAA
ACTTTACAAATTTATTATTTACACTCCCACTGACTTTAGGAGAGAAAAGCTAACACTTGT[TG]TGCATGCGTGTGACAACGATTCCTTCAAAGGATGTTGGGAATCCAAT
68458 IS [TG] CTAACAGGGATCT ctg22fin4 22
68563 I A AAATTAAGACTGACTTATTTAACTTGCCTAGAAATTCTGACTTAGGATAATTACATTATCT
68563 P G A ATGACGTGGCAGACGTTAGCTTCTTACTGCCAAY
68563 P A A CGCGCCGAGGATTAGCTTCTTACTGCCAATTY
68563 T G A TGTAAATTGGCAGTAAGAGCTAACGATAATGTAATTATCCTAAGTCAGAATTTCTAGGCAAGTTAAATAAGTCAGTCTTAATTT
68563 T A A TGTAAATTGGCAGTAAGAAGCTAATGATAATGTAATTATCCTAAGTCAGAATTTCTAGGCAAGTTAAATAAGTCAGTCTTAATTT
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68563 IS [GA] AAAGAGATTTAAT ctg13446 1
68570 I S TTTTAAATATAGAAGCAAAACAAACATGCATTAATACTTGTAAAAGTTTATATCATTAGTT
68570 P T S CGCGCCGAGGAGCATTCTTTTACATTTTTAGAGCY
68570 P C S ATGACGTGGCAGACGGCATTCTTTTACATTTTTAGAGY
68570 T T S ATCTGCTCTAAAAATGTAAAAGAATGCTACTAATGATATAAACTTTTACAAGTATTAATGCATGTTTGTTTTGCTTCTATATTTAAAA
68570 T C S ATCTGCTCTAAAAATGTAAAAGAATGCCACTAATGATATAAACTTTTACAAGTATTAATGCATGTTTGTTTTGCTTCTATATTTAAAA
AGCAAAGTCCGTGCATCAAATAGTAATTGTAGTATCTGCTCTAAAAATGTAAAAGAATGC[TC]ACTAATGATATAAACTTTTACAAGTATTAATGCATGTTTGTTTTGC
68570 IS [TC] TTCTATATTTAAAA ctg22fin10 22
68657 I S CCTCGTGCTTGAGTTGAGGCCTGGCA
68657 P G S ATGACGTGGCAGACCTGGGCGCTGGGY
68657 P A S CGCGCCGAGGTTGGGCGCTGGGY
68657 T G S CGGCCCCAGCGCCCAGGCCAGGCCTCAACTCAAGCACGAGGCG
68657 T A S CGGCCCCAGCGCCCAAGCCAGGCCTCAACTCAAGCACGAGGCG
AAAGCAGCGACACAGGCGCGAAGGTGCCACCAGATTCGCACGCGGCGGCCCCCAGCGCCCA[GA]GCCAGGCCTCAACTCAAGCACGAGGCGAAGGGGCTCCTTAAGCGCAA
68657 IS [GA] GGCCTCGAACTCT ctg18037 7
68705 I A ACTACAAGCCTAGAGAACTTTTCCTTGCTATATTCTATTATACTGCTTATAT
68705 P A A CGCGCCGAGGATTTTAATCTGATTTTAAGGAACCAY
68705 P G A ATGACGTGGCAGACGTTTTAATCTGATTTTAAGGAACCAY
68705 T A A TACATGGTTCCTTAAAATCAGATTAAATTATAAGCAGTATAATAGAATATAGCAAGGAAAAGTTCTCTAGGCTTGTAGTTA
68705 T G A TACATGGTTCCTTAAAATCAGATTAAAACTATAAGCAGTATAATAGAATATAGCAAGGAAAAGTTCTCTAGGCTTGTAGTTA
TCTTAGCTAACTACAAGCCTAGAGAACTTTTCCTTGCTATATTCTATTATACTGCTTATA[AG]TTTTAATCTGATTTTAAGGAACCATGTAGTTATCTTTTCTTATGTTC
68705 IS [AG] TTTGTCTTCAGAT ctg15842 19
68787 I A GGGACCCTGAAAAAAAAAGTAAGGTATCCAACAGAAAGTTCCAT
68787 P A A CGCGCCGAGGATGCAGAAGGAATGCAAGY
68787 P G A ATGACGTGGCAGACGTGCAGAAGGAATGCAAY
68787 T A A TCATCTTGCATTCCTTCTGCATTGGAACTTTCTGTTGGATACCTTACTTTTTTTTTCAGGGTCCCAT
68787 T G A TCATCTTGCATTCCTTCTGCACTGGAACTTTCTGTTGGATACCTTACTTTTTTTTTCAGGGTCCCAT
GGAGTGGTATTTGAGATGGGACCCTGAAAAAAAAAGTAAGGTATCCAACAGAAAGTTCCA[AG]TGCAGAAGGAATGCAAGATGAAGGAAACAGCAAAAGAAACAGAC
68787 IS [AG] AGATTGAGGAAGTGGC ctg19262 19
68977 I S TGACAAGACTCAAATTTCTCTTAAATTCAATGACATTTTCTTCAACTATTTAATCATA
68977 P A S CGCGCCGAGGTTCCACTTTTTGTCCTTTCCY
68977 P G S ATGACGTGGCAGACCTCCACTTTTTGTCCTTTCY
68977 T A S AGAAGGAAAGGACAAAAAGTGGAAATGATTAAATAGTTGAAGAAAATGTCATTGAATTTAAGAGAAATTTGAGTCTTGTCATC
68977 T G S AGAAGGAAAGGACAAAAAGTGGAGATGATTAAATAGTTGAAGAAAATGTCATTGAATTTAAGAGAAATTTGAGTCTTGTCATC
ATTGAGTGATCAGGAGAGCCAAGATCCAGTTTTCACCAGAAGGAAAGGACAAAAAGTGGA[AG]ATGATTAAATAGTTGAAGAAAATGTCATTGAATTTAAGAGAAATT
68977 IS [AG] TGAGTCTTGTCATCA ctg18466 16
76023 I S GGCCAAGTCTGGCACCTCTGAGAAGCTT
76023 P T S CGCGCCGAGGAAGCAGATGTGGACTGY
76023 P C S ATGACGTGGCAGACGAGCAGATGTGGACTGY
76023 T T S GGTGCAGTCCACATCTGCTTAGCTTCTCAGAGGTGCCAGACTTGGCCTT
76023 T C S GGTGCAGTCCACATCTGCTCAGCTTCTCAGAGGTGCCAGACTTGGCCTT
CAGCAAAGCACCAGCAGAGAGGCAGGCAGCACCTGGGTGAGGTGCAGTCCACATCTGCT[TC]AGCTTCTCAGAGGTGCCAGACTTGGCCTTCTTGAGACAATGCACAGG
76023 IS [TC] GGCCTTGGAGGCT ctg18297 19
76091 I S GACAGCACATTGTTTCTCAGAAAAACATCAACAAGTAGAGA
76091 P G S ATGACGTGGCAGACCCTCCTAAACAAAAACGAGGY
76091 P A S CGCGCCGAGGTCTCCTAAACAAAAACGAGGY
76051 T G S TTCACCTCGTTTTTGTTTAGGAGGCTCTACTTTGTTGATGTTTTTCTGAGAAACAATGTGCTGTCTG
76091 T A S TTCACCTCGTTTTTGTTTAGGAGACTCTACTTTGTTGATGTTTTTCTGAGAAACAATGTGCTGTCTG
TCCCTTAGGACTTCTTGTCAGCCCAGTTATGTGATTTTTCACCTCGTTTTTGTTTAGGAG[GA]CTCTACTTTGTTGATGTTTTTCTGAGAAACAATGTGCTGTCTGTTTTT
76091 IS [GA] CTCTGTTTCCTT ctg25099 7
76175 I A AAAGGCTGGAGGGAGCAAGAGGGCTA
76175 P T A CGCGCCGAGGTAGGGCAAGATCTTTGCCY
76175 P C A ATGACGTGGCAGACCAGGGCAAGATCTTTGCY
76175 T T A GCCAGGCAAAGATCTGCCCTAAGCCCTCTTGCTCCCTCCAGCCTTTGG
76175 T C A GCCAGGCAAAGATCTGCCCTGAGCCCTCTTGCTCCCTCCAGCCTTTGG
TGGGTGTCAGGGTGTCCATCAGCAGCCCTCTCCCCAAAGGCTGGAGGGAGCAAGAGGGCT[TC]AGGGCAGATCTTTGCCTGGCTAGCCCAGGAAGGACTGCCCCTCCTCT
76175 IS [TC] CATACCTGCTCAA ctg16508 19
76324 I A GGGGAAGCTCTTGTGAAATCTACCATCATTACCAAGCTCT
76324 P G A ATGACGTGGCAGACGATGAATAAATGATATAGATATGGCAY
76324 P A A CGGCGCCGAGGAATGAATAAATGATATAGATATGGCAGY
76324 T G A CCATCTGCCATATCTATATCATTTATTCATCGAGCTTGGTAATGATGGTAGATTTCACAAGAGCTTCCCCAC
76324 T A A CCATCTGCCATATCTATATCATTTATTCATTGAGCTTGGTAATGATGGTAGATTTCACAAGAGCTTCCCCAC
AAGGAATATGTGAATCTATGTGGGGAAGCTCTTGTGAAATCTACCATCATTACCAAGCTC[GA]ATGAATAAATGATATAGATATGGCAGATGGTAGCAAGAGAAGGGA
76324 IS [GA] CCTACCAGGAAAGG ctg16508 19
76326 I S CCATCCATCCACCCACCCATCCATCCATT

FIGURE 129C

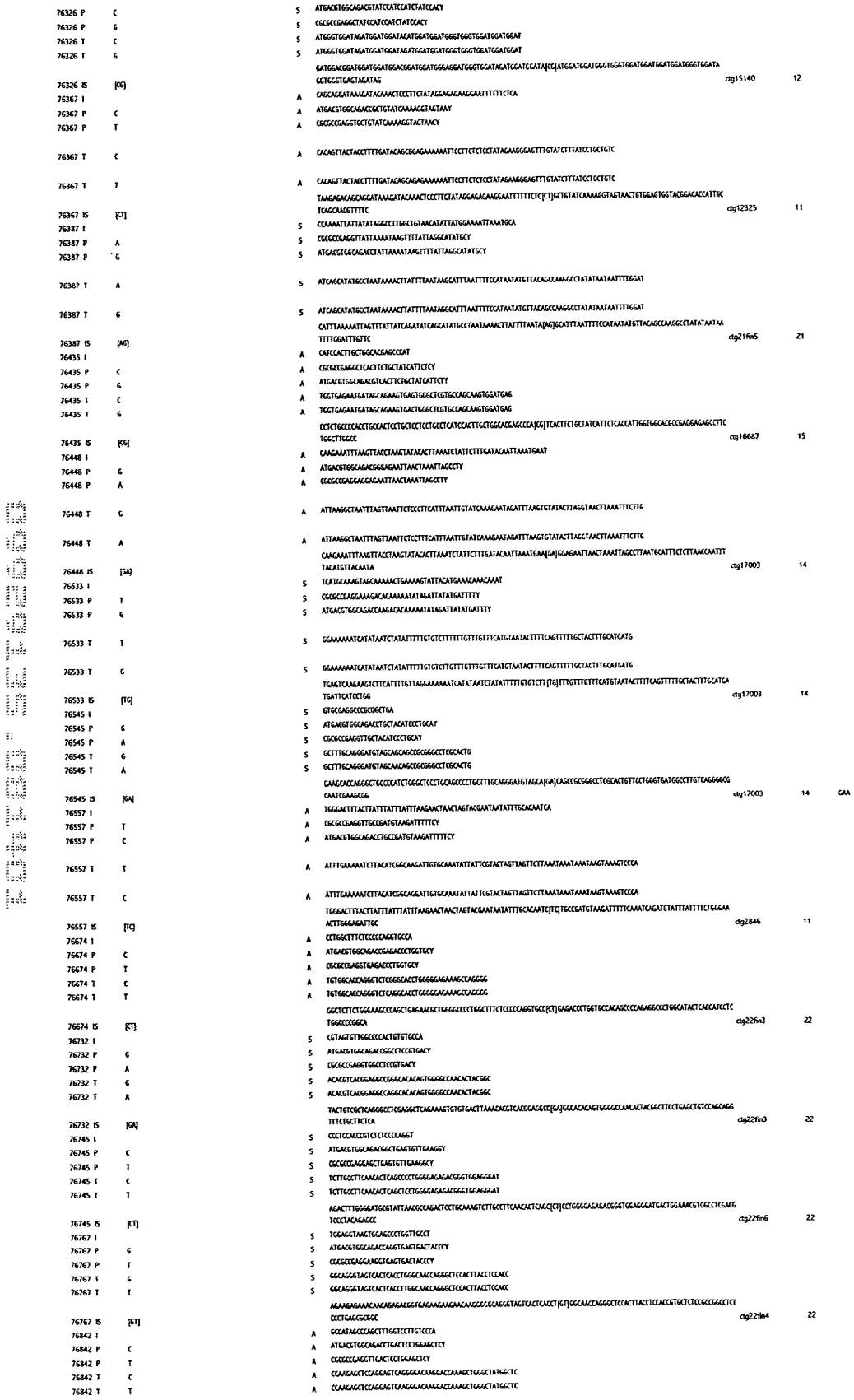


FIGURE 129C

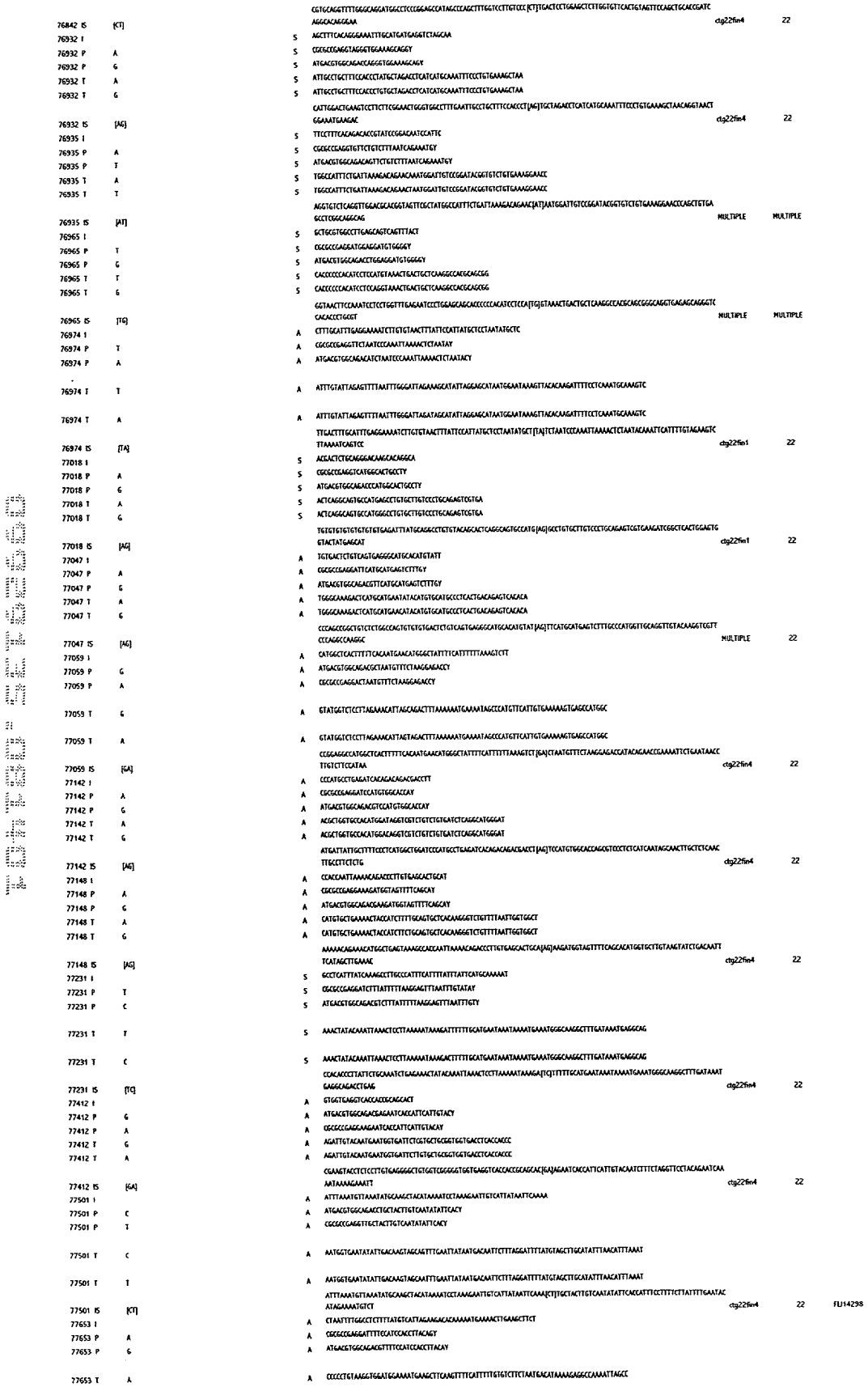


FIGURE 129C

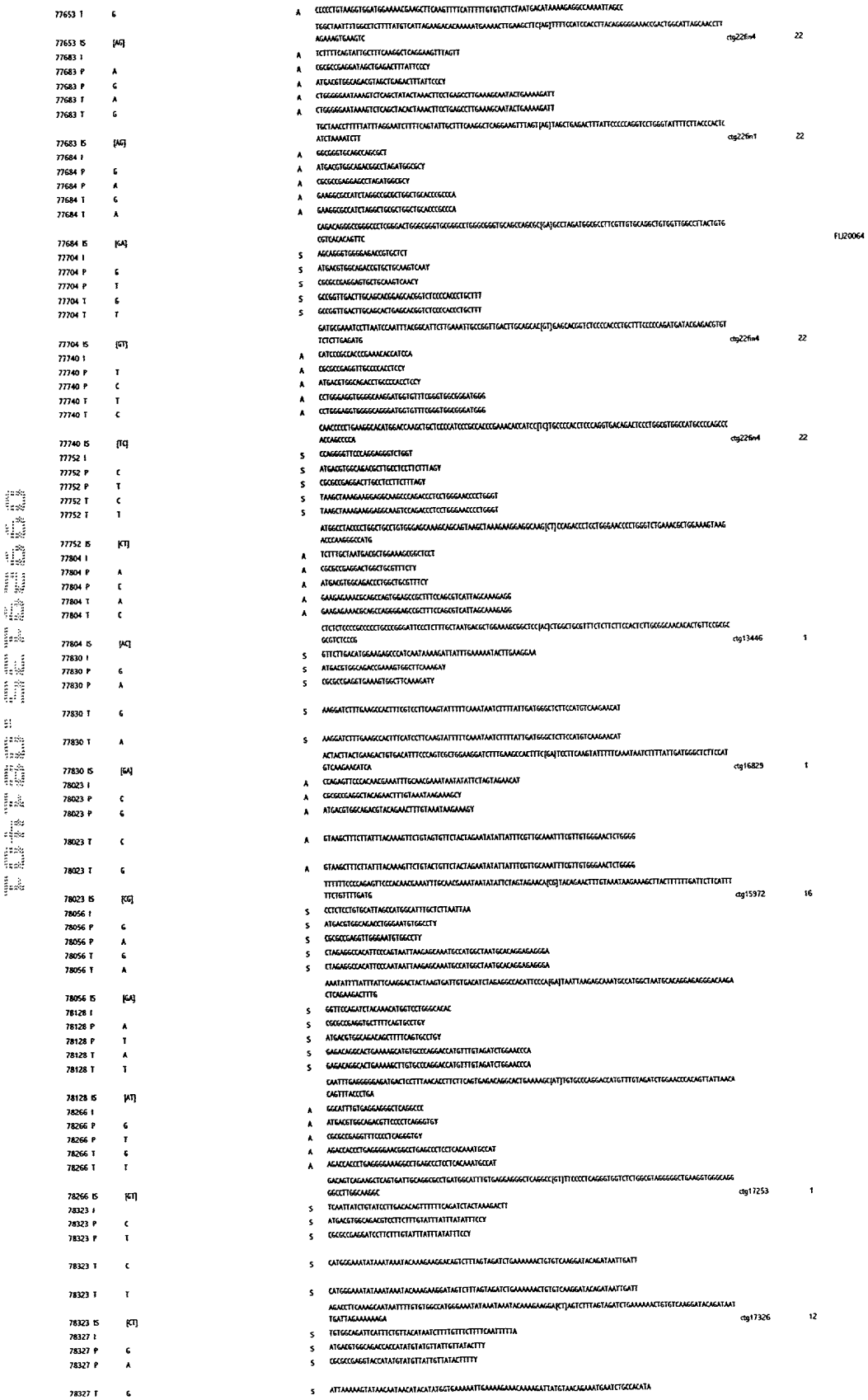
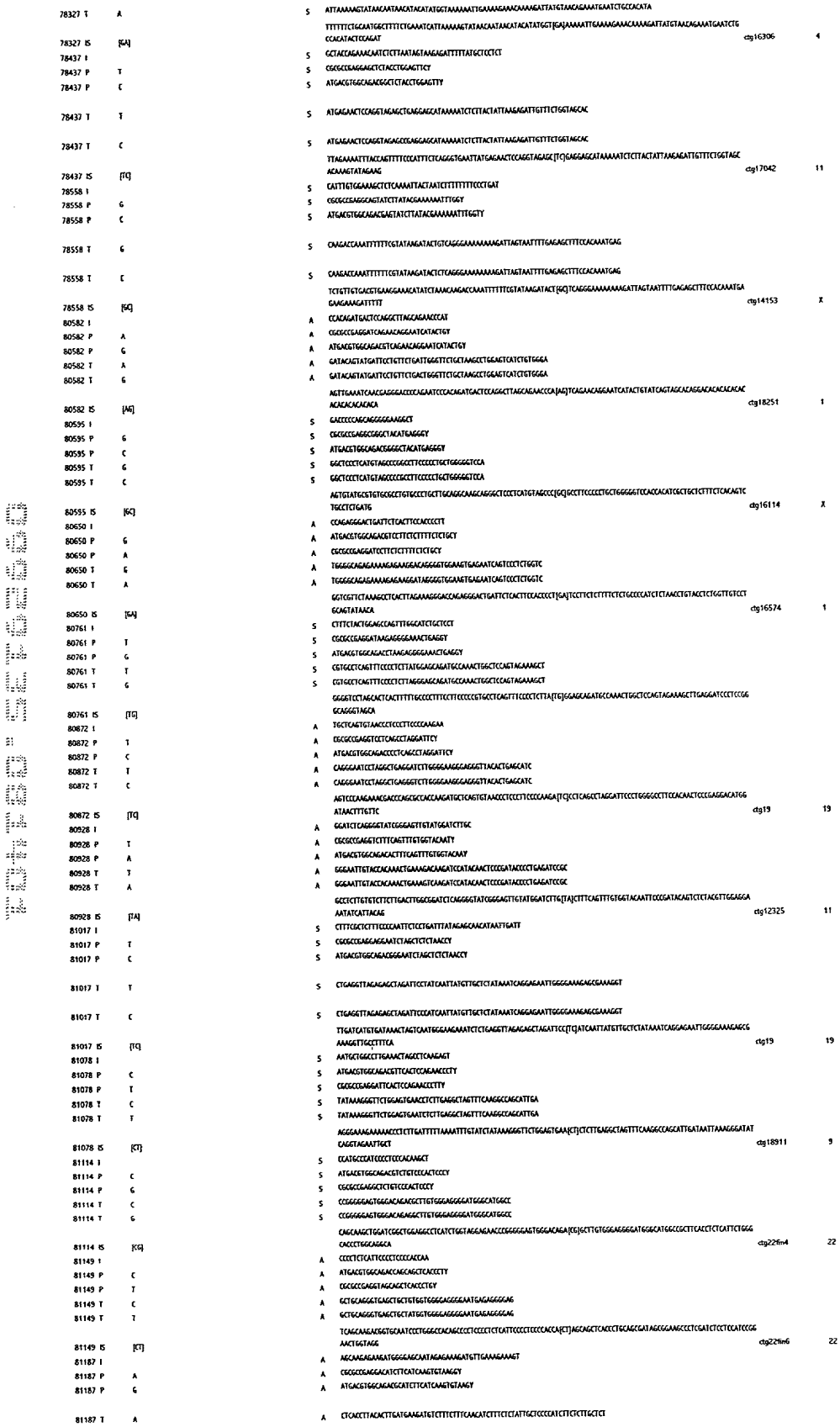


FIGURE 129C


78327 T A S ATTAAAAAGTATAACAATAACATACATATGGTAAAAAATTGAAAAGAAACAAAAGATTATATGTAACAGAAATGAATCTGCCACATA
78327 IS [GA] TTTTTTCTGCAATGGCTTTTCTGAAATCATTAAAAAGTATAACAATAACATACATATGGT[GA]AAAAATTGAAAAGAAACAAAAGATTATATGTAACAGAAATGAATCTG CCACATACTCCAGAT ctg16306 4
78437 I S GCTACCAGAAACAATCTCTTAATAGTAAGAGATTTTTATGCTCCTCT
78437 P T S CGCGCCCAAGGAGCTCTACCTGGAGTTCY
78437 P C S ATGACGTGGCAGACGGCTCTACCTGGAGTTY
78437 T T S ATGAGAACTCCAGGTAGAGCTGAGGAGCATAAAAATCTCTTACTATTAAGAGATTGTTCTGGTAGCAC
78437 T C S ATGAGAACTCCAGGTAGAGCCGAGGAGCATAAAAATCTCTTACTATTAAGAGATTGTTTCTGGTAGCAC TTAGAAAATTTACAGTTTTCCCATTTCTCAGGGTGAATTATGAGAACTCCAGGTAGAGC[TC]GAGGAGCATAAAAATCTCTTACTATTAAGAGATTGTTTCTGGTAGC ACAAAGTATAGAAG ctg17042 11
78437 IS [TC] CATTTGTGGAAAAGCTCTCAAAATTACTAATCTTTTTTTTCCCTGAT
78558 I S CGCGCCCAAGGAGTATCTTATACGAAAAAATTTGGY
78558 P G S ATGACGTGGCAGACGAGTATCTTATACGAAAAAATTTGGTY
78558 P C S CAAGACCAAATTTTTTCGTATAAGATACTGTCAGGGAAAAAAAAGATTAGTAATTTTGAGAGCTTTCCACAAATGAG
78558 T G S CAAGACCAAATTTTTTCGTATAAGATACTCTCAGGGAAAAAAAAGATTAGTAATTTTGAGAGCTTTCCACAAATGAG TCTGTTGTGACGTGAAGGAAACATATCTAAACAAGACCAAATTTTTTCGTATAAGATACT[GC]TCAGGGAAAAAAAAGATTAGTAATTTTGAGAGCTTTCCACAAATGA GAAGAAAGATTTTT ctg14153 X
78558 IS [GC] CCACAGATGACTCCAGGCTTAGCAGAACCCAT
80582 I A CGCGCCCAGGATCAGAACAGGAATCATACTGY
80582 P A ATGACGTGGCAGACTCAGAACAGGAATCATACTGY
80582 P G A GATACAGTATGATTCCTGTTCTGATTGGGTTCTGCTAAGCCTGGAGTCATCTGTGGGA
80582 T A A GATACAGTATGATTCCTGTTCTGACTGGGTTCTGCTAAGCCTGGAGTCATCTGTGGGA AGTTGAAATCAACGAGGGACCCACAGAATCCCACAGATGACTCCAGGCTTAGCAGAACCA[AG]TCAGAACAGGAATCATACTGTATCAGTAGCACAGGACACACACACAC ACACACACACACA ctg18251 1
80582 T G
80582 IS [AG] GACCCCAGCAGGGGGAAGGCT
80595 I S CGCGCCCAGGCGGGCTACATGAGGGY
80595 P G S ATGACGTGGCAGACGGGGCTACATGAGGGY
80595 P C S GGCTCCCTCATGTAGCCCGGCCTTCCCCCTGCTGGGGGTCCA
80595 T G S GGCTCCCTCATGTAGCCCGCCTTCCCCCTGCTGGGGGTCCA AGTGTATGCGTGTGCGCCTGTGCCCTGCTTGCAGGCAAGCAGGGCTCCCTCATGTAGCCC[GC]GCCTTCCCCCTGCTGGGGGTCCACCACATCGCTGCTCTTTCTCACAGTC
80595 IS [GC] TGCCTCTGATG ctg16114 X
80650 I A CCAGAGGGACTGATTCTCACTTCCCACCCCTT
80650 P G A ATGACGTGGCAGACGTCCTTCTCTTTTCTCTGCY
80650 P A A CGCGCCCAGGATCCTTCTCTTTTCTCTGCY
80650 T G A TGGGGCAGAGAAAAGAGAAGGACAGGGGTGGAAGTGAGAATCAGTCCCTCTGGTC
80650 T A A TGGGGCAGAGAAAAGAGAAGGATAGGGGTGGAAGTGAGAATCAGTCCCTCTGGTC GGTCGTTCTAAAGCCTCACTTAGAAAGGGACCAGAGGGACTGATTCTCACTTCCCACCCCT[GA]TCCTTCTCTTTTCTCTGCCCCATCTCTAACCTGTACCTCTGGTTGTCCT GCAGTATAACA ctg16574 1
80650 IS [GA] CTTTCTACTGGAGCCAGTTTGGCATCTGCTCCT
80761 I S CGCGCCCAGGATAAGAGGGGAAACTGAGGY
80761 P T S ATGAGGTGGCAGACCTAAGAGGGGAAACTGAGGY
80761 P G S CGTGGCTCAGTTTCCCCTCTTATGGAGCAGATGCCAAACTGGCTCCAGTAGAAAGCT
80761 T T S CGTGCCTCAGTTTCCCCTCTTAGGGAGCAGATGCCAAACTGGCTCCAGTAGAAAGCT
80761 T G S GGGGTCCTAGCACTCACTTTTGCCCCTTTCCTTCCCCCGTGCCTCAGTTTCCCCTCTTA[TG]GGAGCAGATGCCAAACTGGCTCCAGTAGAAAGCTTGAGGATCCCTCCGG GCAGGGTAGCA
80761 IS [TG] TGCTCAGTGTAACCCTCCCTTCCCCAAGAA
80872 I A CGCGCCCAGGTCCTCAGCCTAGGATTCY
80872 P T A ATGACGTGGCAGACCCCTCAGCCTAGGATTCY
80872 P C A CAGGGAATCCTAGGCTGAGGATCTTGGGGAAGGCAGGGTTACACTGAGCATC
80872 T T A CAGGGAATCCTAGGCTGAGGGTCTTGGGGAAGGCAGGGTTACACTGAGCATC
80872 T C A CAGGGAATCCTAGGCTGAGGGTCTTGGGGAAGGCAGGGTTACACTGAGCATC AGTCCCAAGAAACGACCCAGCGCCACCAAGATGCTCAGTGTAACCCTCCCTCCCCAAGA[TC]CCTCAGCCTAGGATTCCCTGGGGCCTTCCACAACTCCCGAGGACATGG ATAACTTTGTTC ctg19 19
80872 IS [TC] GGATCTCAGGGGTATCGGGAGTTGTATGGATCTTGC
80928 I A CGCGCCCAGGTCTTTCAGTTTGTGGTACAATY
80928 P T A ATGACGTGGCAGACACTTTCAGTTTGTGGTACAAY
80928 P A A GGGAATTGTACCACAAACTGAAAGACAAGATCCATACAACTCCCGATACCCCTGAGATCCGC
80928 T T A GGGAATTGTACCACAAACTGAAAGTCAAGATCCATACAACTCCCGATACCCCTGAGATCCGC
80928 T A A GCCTCTTGTGTCTTCTTGACTTGGCGGATCTCAGGGGTATCGGGAGTTGTATGGATCTTG[TA]CTTTCAGTTTGTGGTACAATTCCCGATACAGTCTCTACGTTGGAGGA AATATCATTACAG ctg12325 11
80928 IS [TA] CTTTCGCTCTTTCCCCAATTCTCCTGATTTATAGAGCAACATAATTGATT
81017 I S CGCGCCCAGGAGGAATCTAGCTCTCTAACCY
81017 P T S ATGACGTGGCAGACGGGAATCTAGCTCTCTAACCY
81017 P C S CTGAGGTTAGAGAGCTAGATTCCTATCAATTATGTTGCTCTATAAATCAGGAGAATTGGGGAAAGAGCGAAAGGT
81017 T T S CTGAGGTTAGAGAGCTAGATTCCCATCAATTATGTTGCTCTATAAATCAGGAGAATTGGGGAAAGAGCGAAAGGT
81017 T C S CTGAGGTTAGAGAGCTAGATTCCCATCAATTATGTTGCTCTATAAATCAGGAGAATTGGGGAAAGAGCGAAAGGT TTGATCATGTGATAAACTAGTCAATGGGAAGAAATCTCGAGGTTAGAGAGCTAGATTCC[TC]ATCAATTATGTTGCTCTATAAATCAGGAGAATTGGGGAAAGAGCG AAAGGTTGCCTTTCA ctg19 19
81017 IS [TC] AATGCTGGCCTTGAAACTAGCCTCAAGAGT
81078 I S ATGACGTGGCAGACGTTCACTCCAGAACCCTY
81078 P C S CGCGCCCAGGATTCACTCCAGAACCCTTY
81078 P T S TATAAAGGGTTCTGGAGTGAACCTCTTGAGGCTAGTTTCAAGCCCAGCATTGA
81078 T C S TATAAAGGGTTCTGGAGTGAATCTCTTGAGGCTAGTTTCAAGCCCAGCATTGA
81078 T T S TATAAAGGGTTCTGGAGTGAATCTCTTGAGGCTAGTTTCAAGCCCAGCATTGA AGGGAAAGAAAAACCCTCTTGATTTTTAAAATTTGTATCTATAAAGGGTTCTGGAGTGAA[CT]CTCTTGAGGCTAGTTTCAAGCCCAGCATTGATAATTAAAGGGATAT CAGGTAGAATTGCT ctg18911 9
81078 IS [CT] CCATGCCCATCCCCTCCCACAAGCT
81114 I S ATGACGTGGCAGACGTCTGTCCCACTCCCY
81114 P C S CGCGCCCAGGCTCTGTCCCACTCCCY
81114 P G S CCGGGGGAGTGGGCACAGCGCTTGTGGGAGGGGATGGGCATGGCC
81114 T C S CCGGGGGAGTGGGCACAGAGGCTTGTGGGAGGGGATGGGCATGGCC CAGCAAGCTGGATCGGCTGGAGGCCTCATCTGGTAGGAGAACCCGGGGGAGTGGGACAGA[CG]GCTTGTGGGAGGGGATGGGCATGGCCGCTTCACCTCTCATTCTGGG CACCCTGGCAGGCA ctg22fin4 22
81114 IS [CG] CCCCTCTCATTCCCCTCCCACCAA
81149 I A ATGACGTGGCAGACCAGCAGCTCACCCTY
81149 P C A CGCGCCGAGGTAGCAGCTCACCCTGY
81149 P T A GCTGCAGGGTGAGCTGCTGTGGTGGGCAGGGGAATGAGAGGGGAG
81149 T C A GCTGCAGGGTGAGCTGCTATGGTGGGCAGGGGAATGAGAGGGGAG
81149 T T A TCAGCAAGAGGGTGCAATCCCTGGCCACAGCCCTCCCCTCTCATTCCCCTCCCCACCA[CT]AGCAGCTCACCCTGCAGCGATAGCGGAAGCCCTCGATCTCCTCCATCCGG AACTGGTAGG ctg22fin6 22
81149 IS [CT] AGCAAGAGAAGATGGGGAGCAATAGAGAAAGATGTTGAAAGAAAGT
81187 I A CGCGCCGAGGACATCTCATCAAGTGTAAGGY
81187 P A A ATGACGTGGCAGAGCATCTTCATCAAGTGTAAGY
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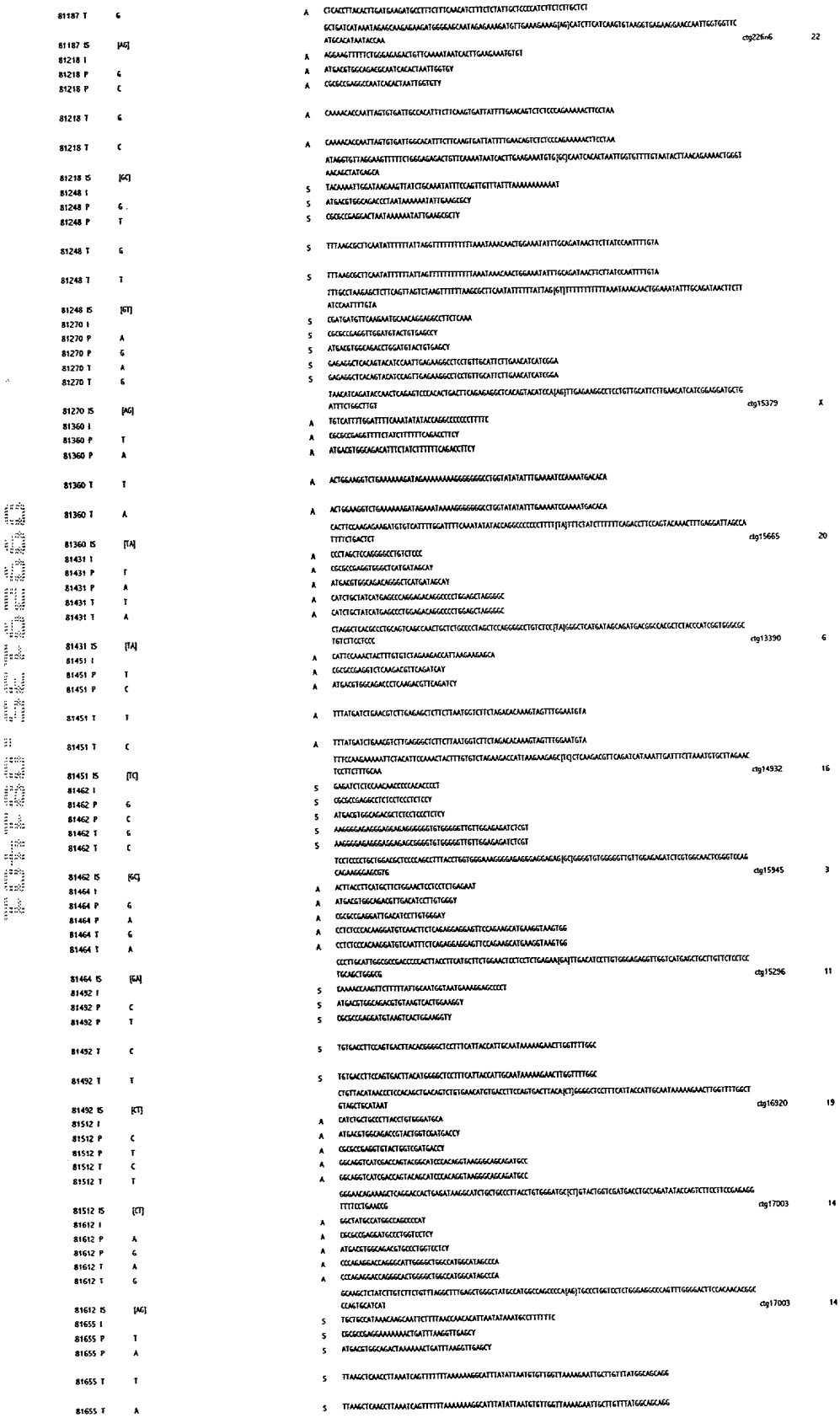


FIGURE 129C

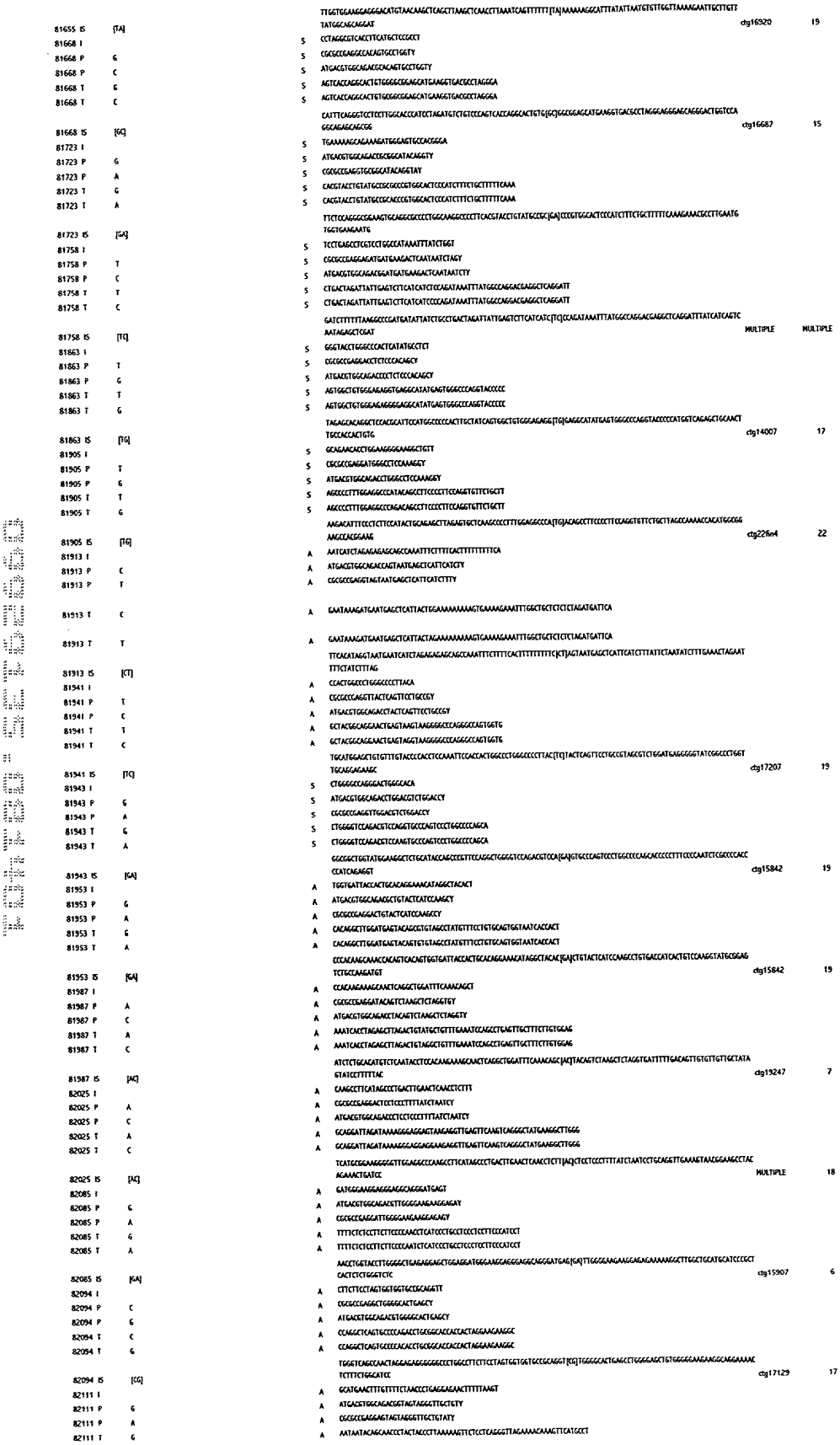


FIGURE 129C

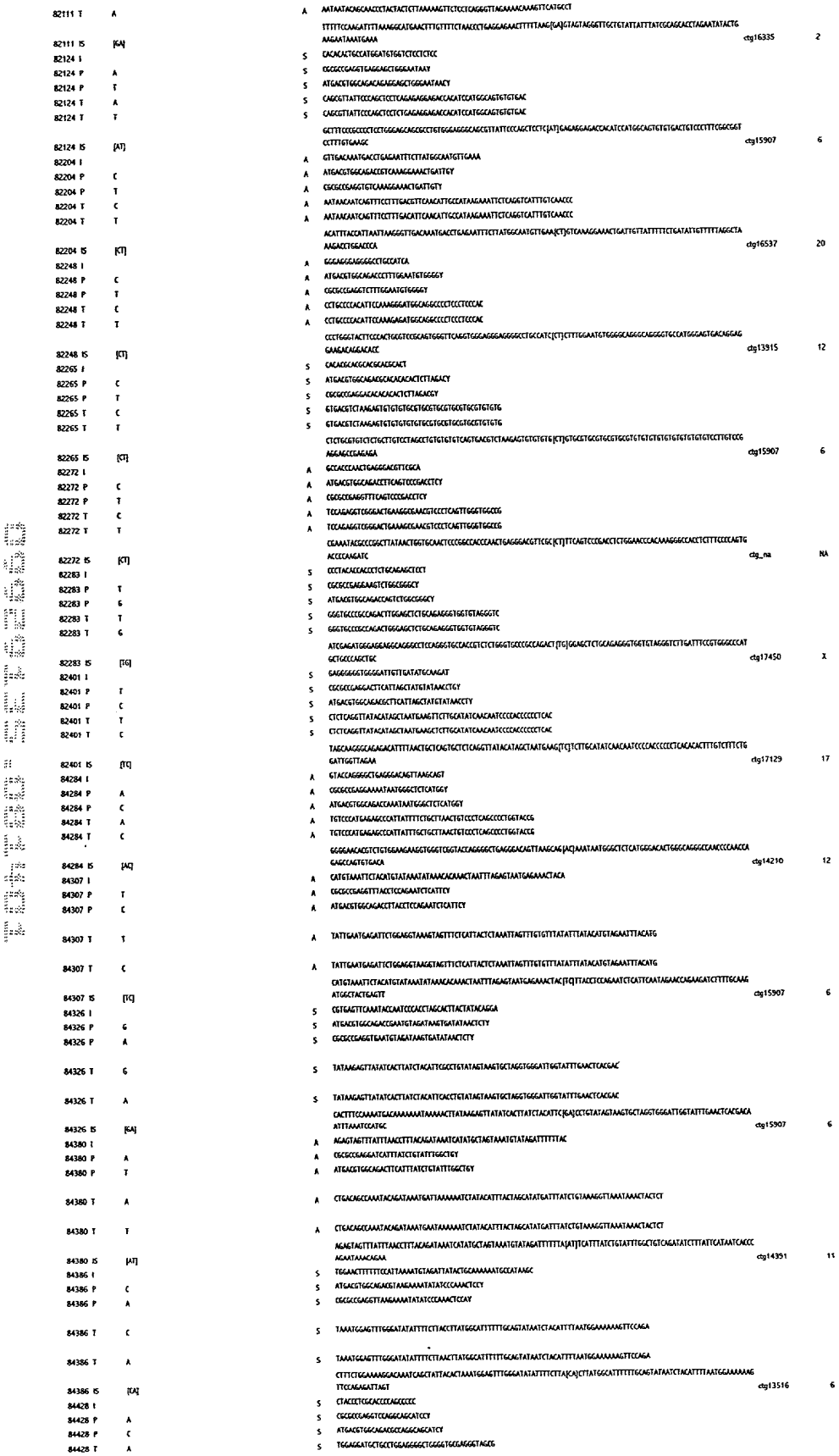


FIGURE 129C

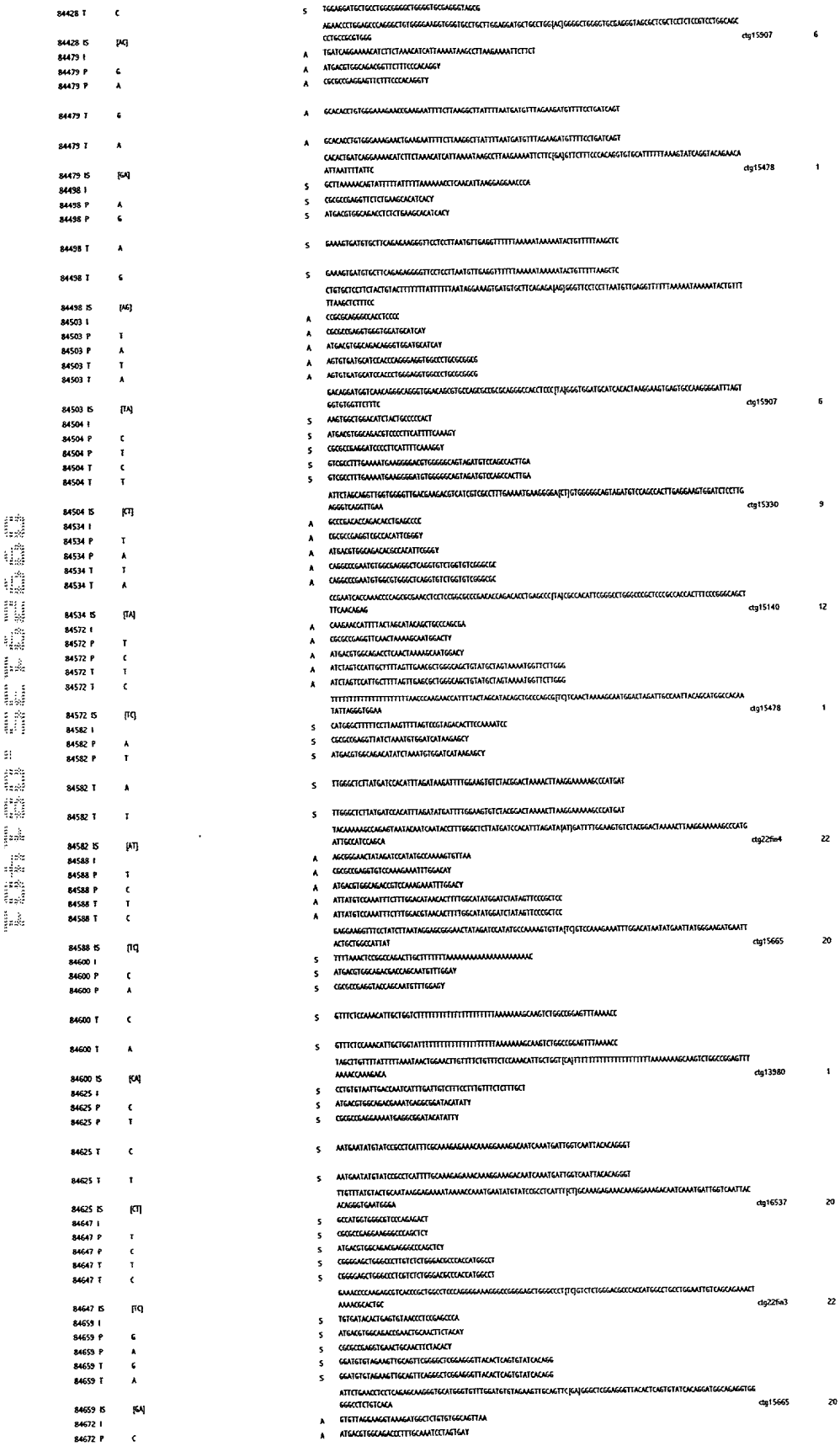


FIGURE 129C

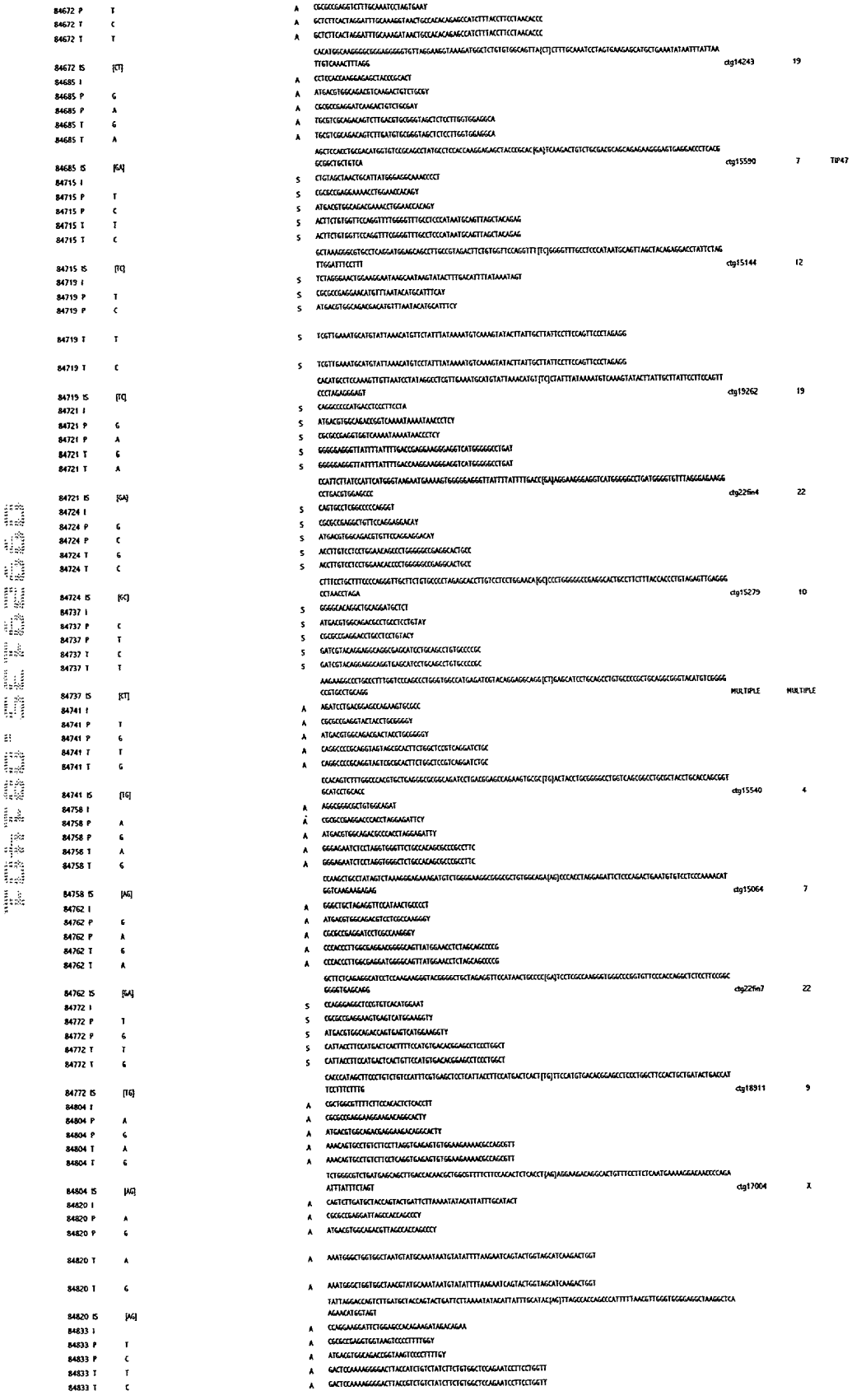


FIGURE 129C

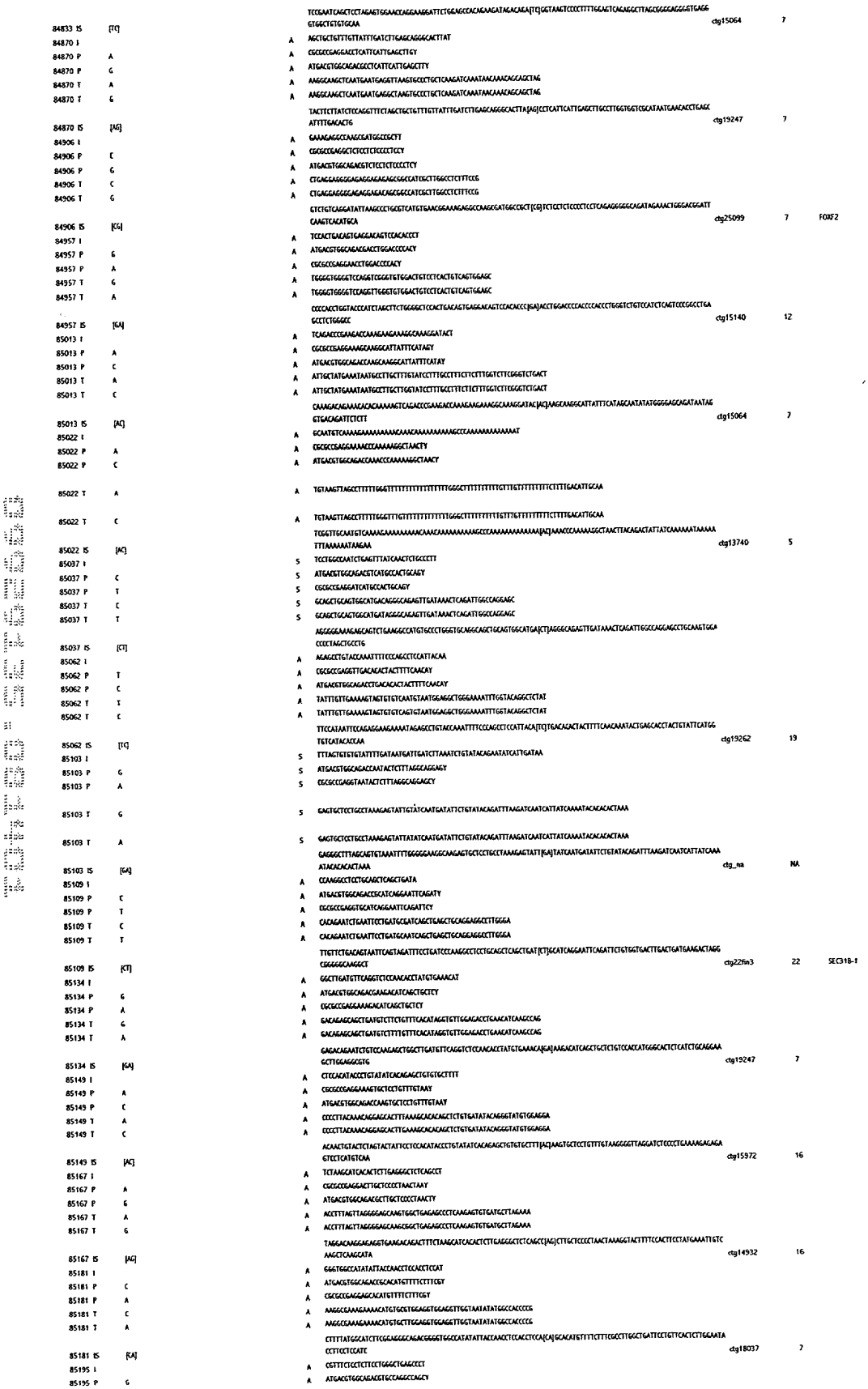


FIGURE 129C

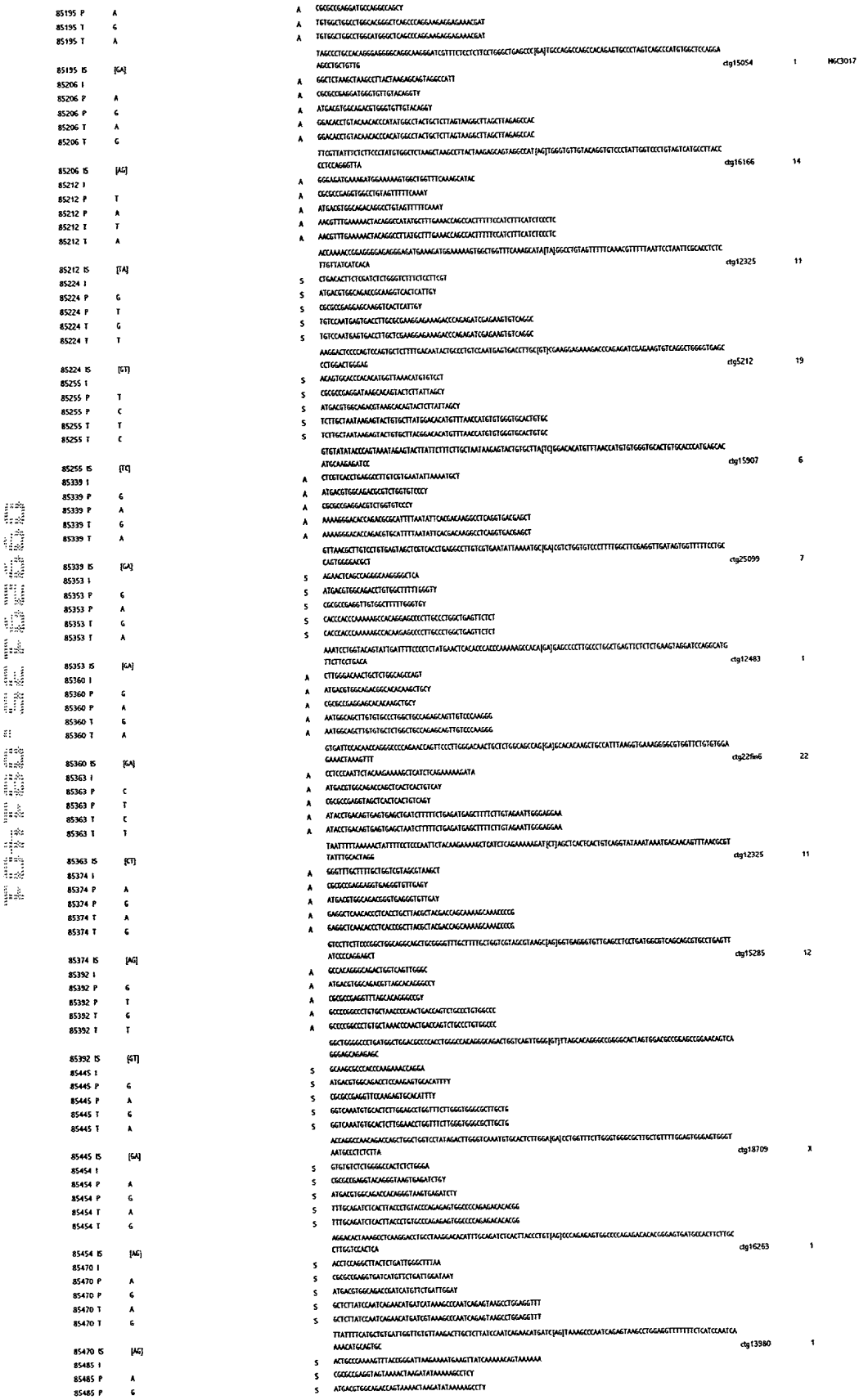


FIGURE 129C

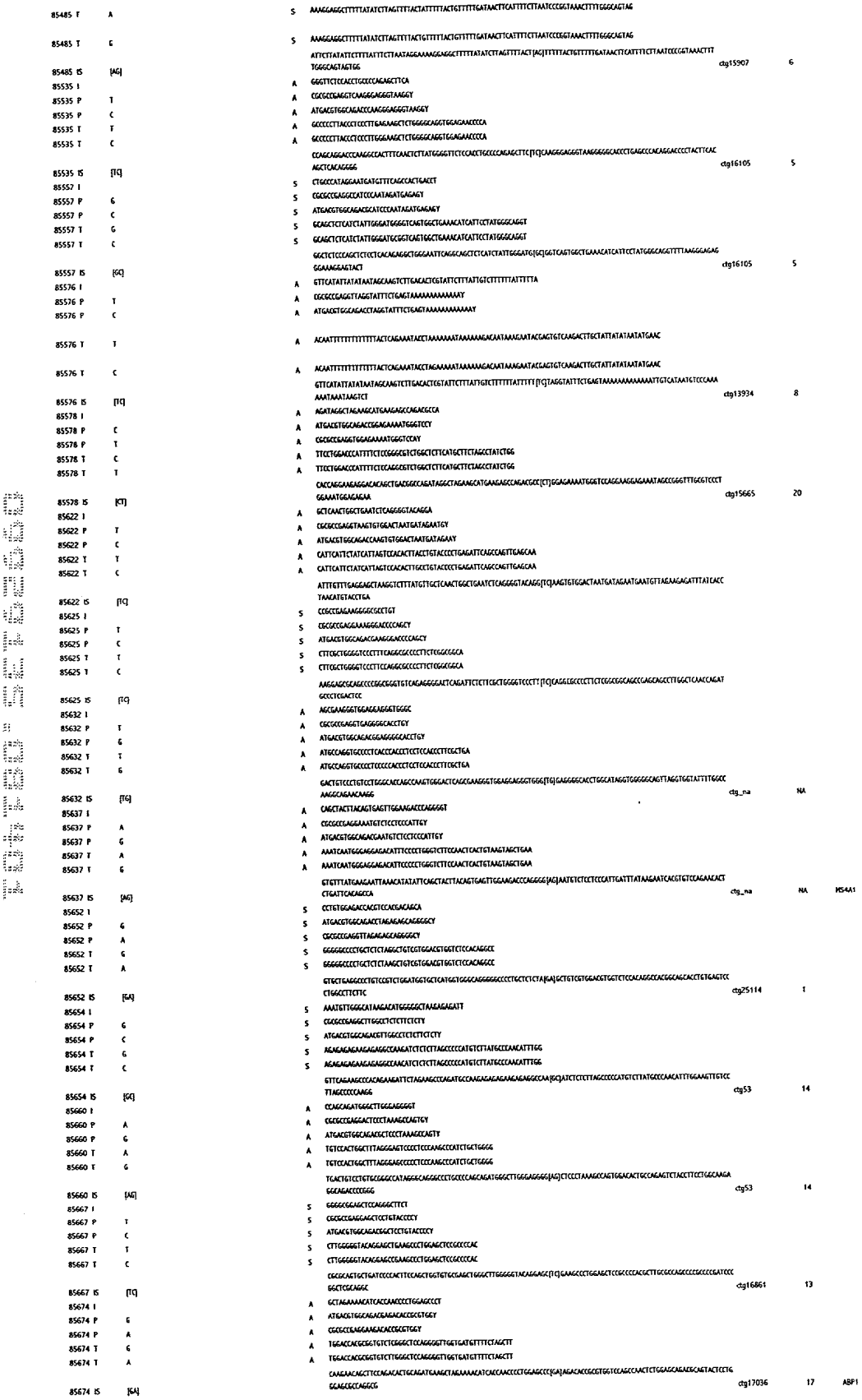


FIGURE 129C

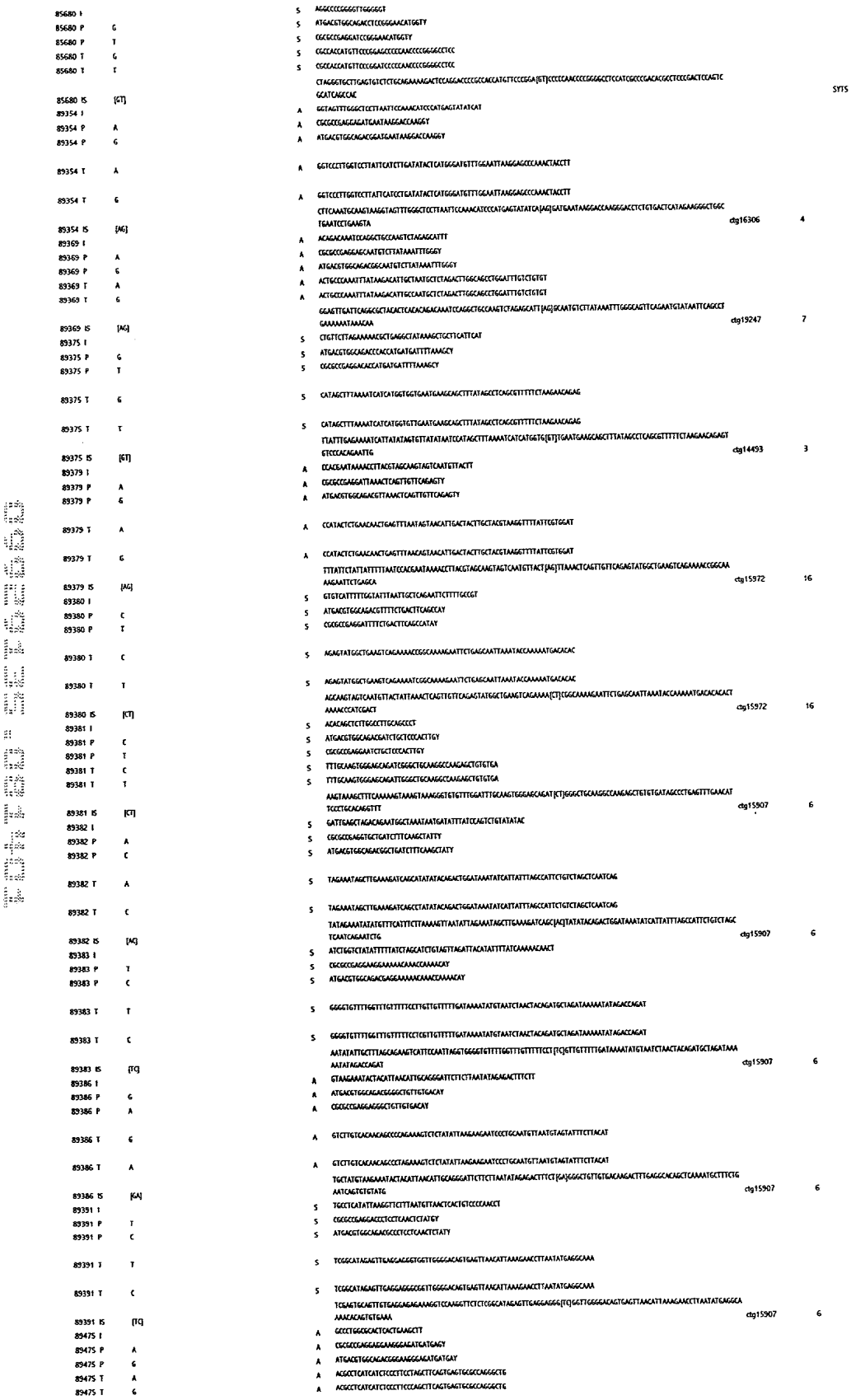


FIGURE 129C

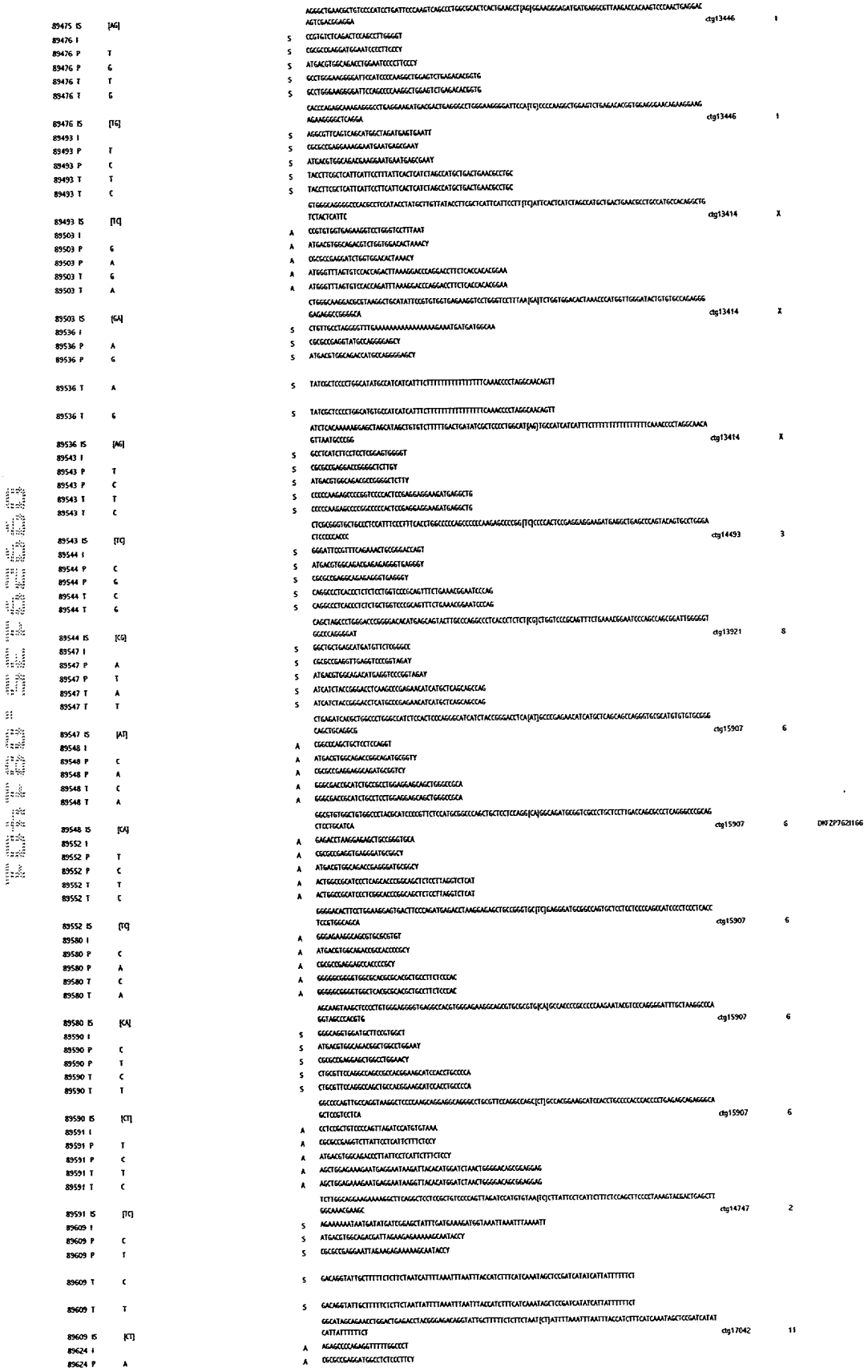


FIGURE 129C

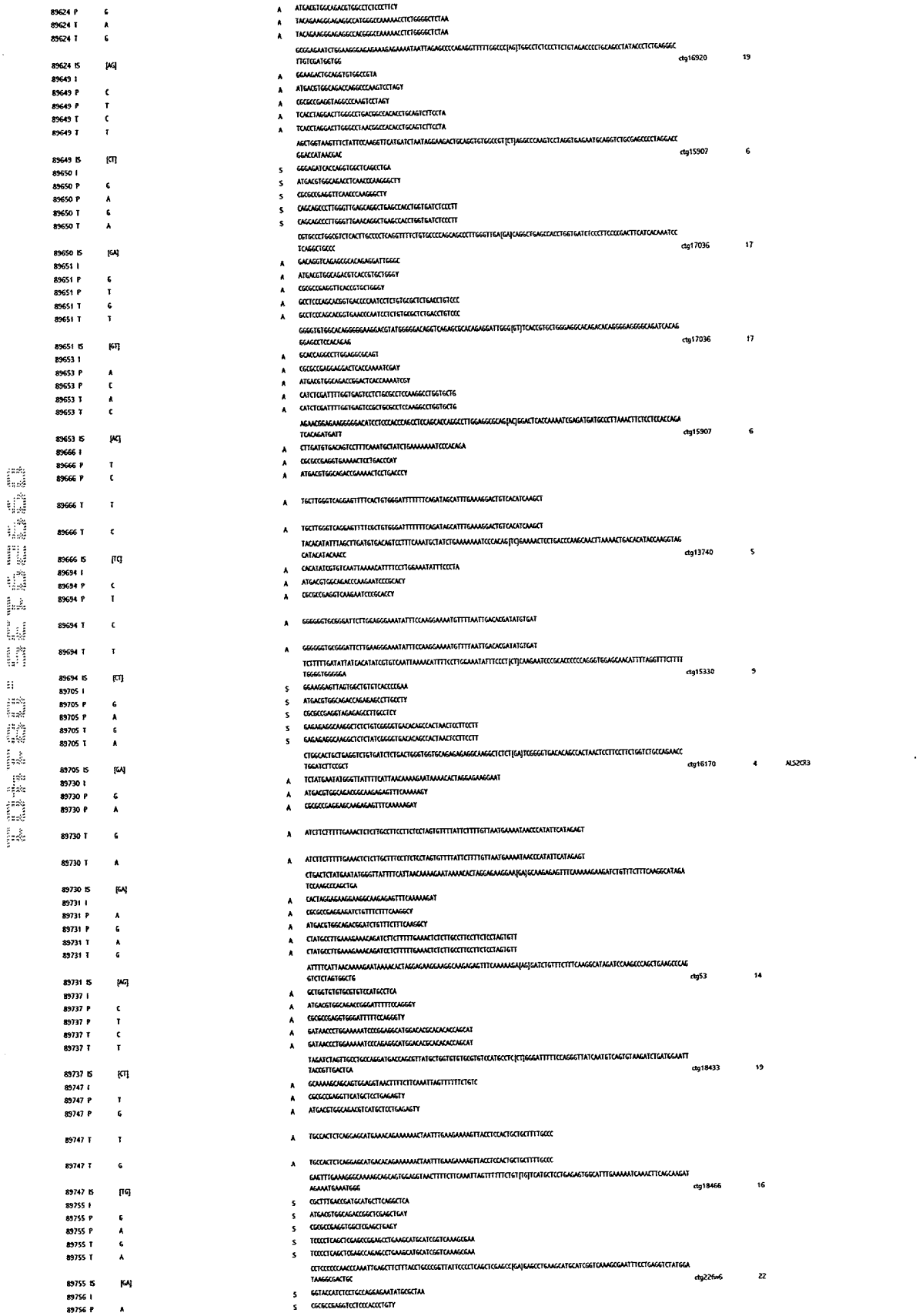


FIGURE 129C

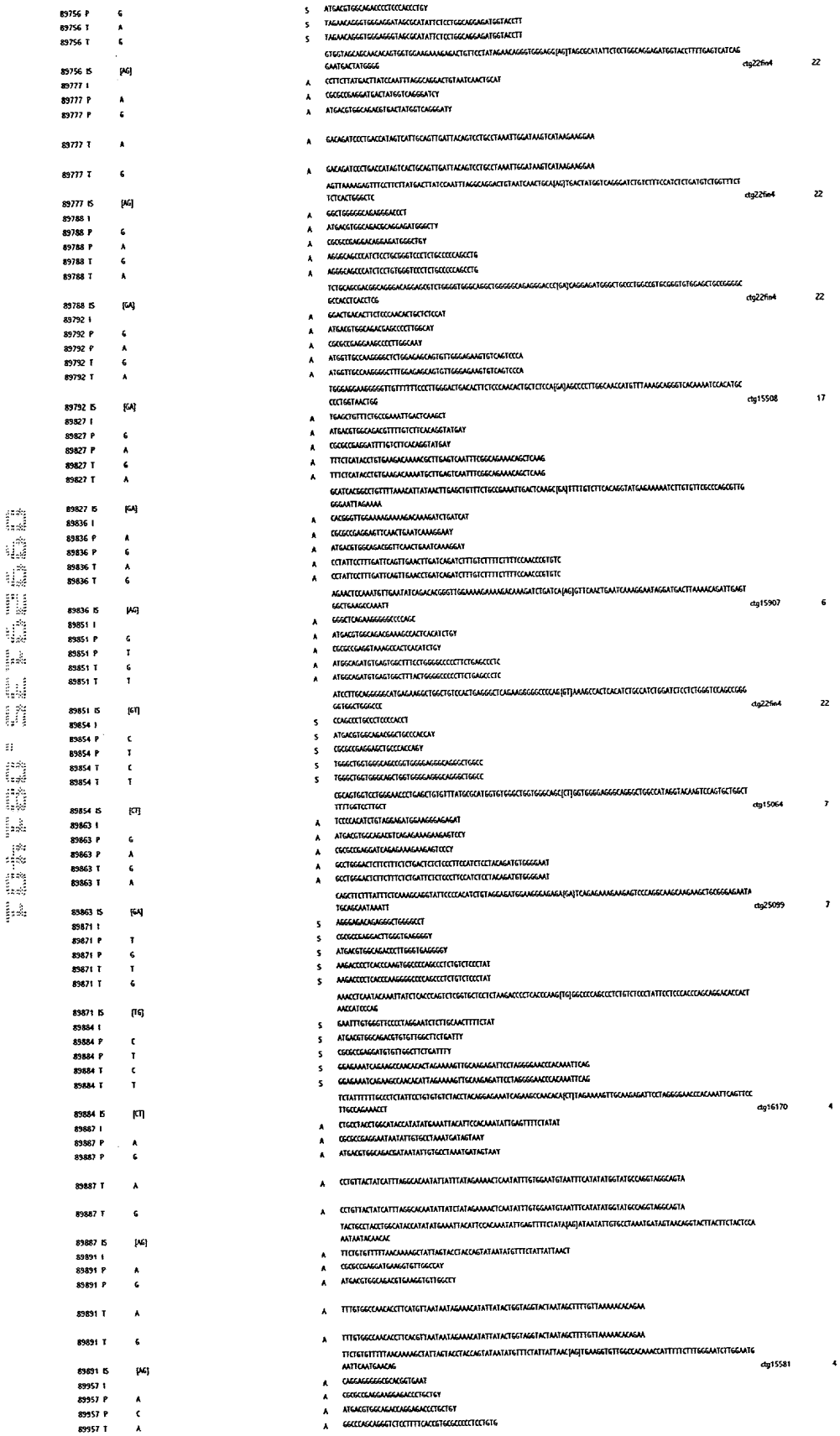

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FIGURE 129C

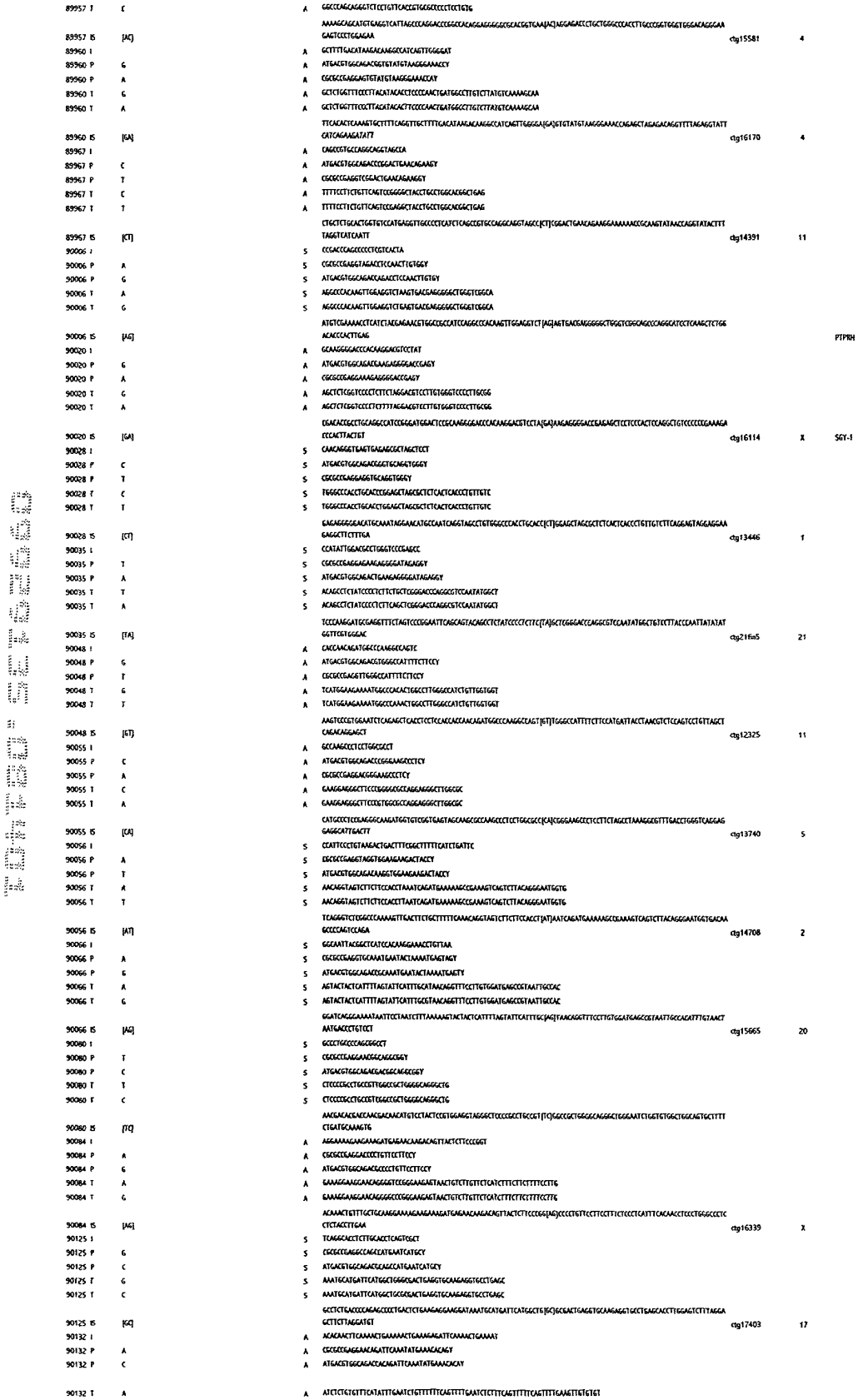
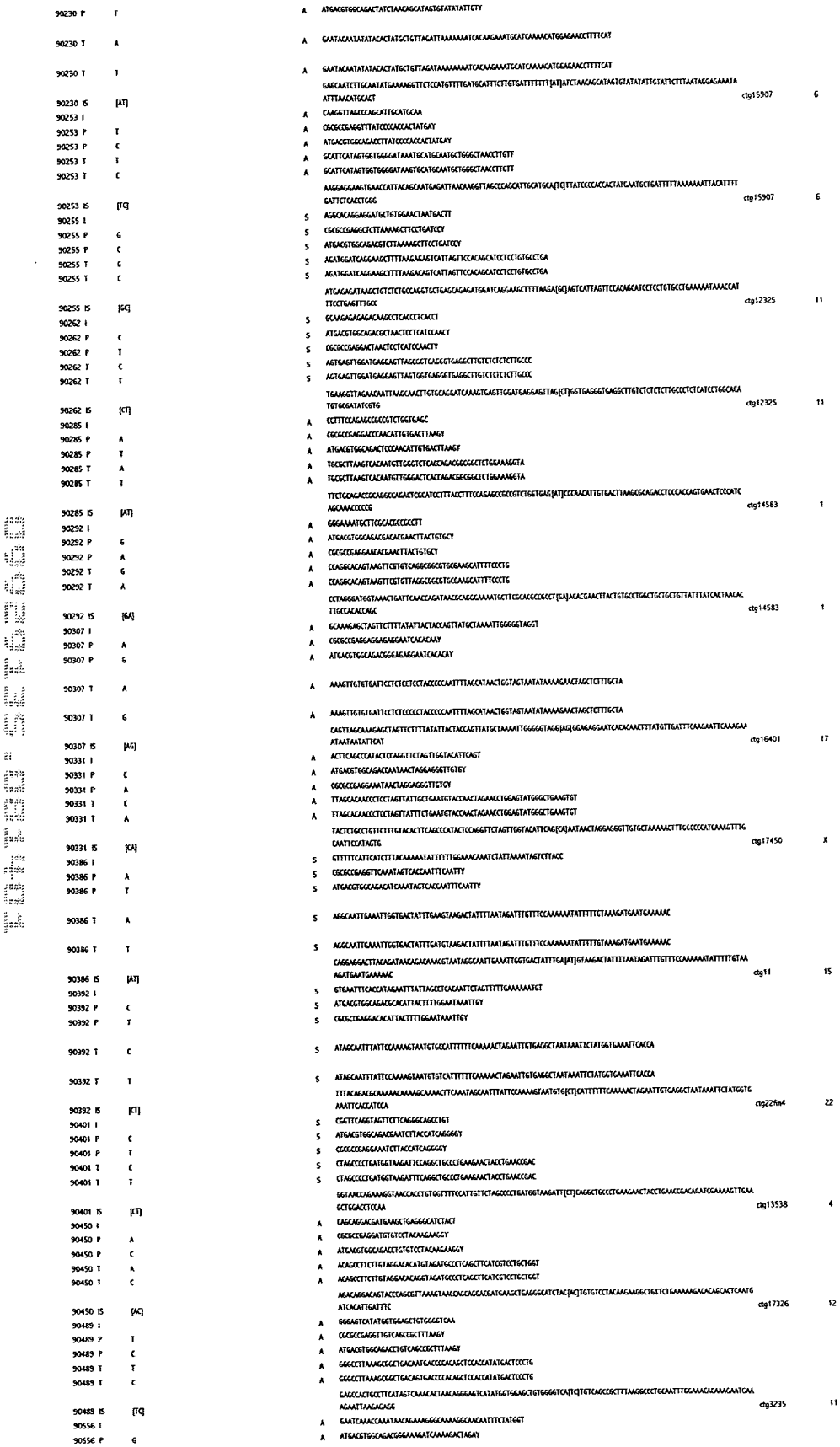


FIGURE 129C

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90146 I		S	CCGTTGTCCCTCTTCGGGCGCTA				
90146 P	A	S	CGCGCCGAGGTGCCAGTGATGCCTTY				
90146 P	G	S	ATGACGTGGCAGACCGCCAGTGATGCCTY				
90146 T	A	S	CAACAAGGCATCACTGGCAAGGCCCGAAGAGGGACAACGGGC				
90146 T	G	S	CAACAAGGCATCACTGGCGAGGCCCGAAGAGGGACAACGGGC				
90146 IS	[AG]		GGCTTTCTGTTCAGTTGGATTTCATTTATGTCAAAGTGGTTGCAACAAGGCATCMCTGGC[AG]AGCGCCCGAAGAGGGACAACGGGCTGTCCCATCACAGGGCTCACCT GGTCATTTTCATC	ctg15907	6		
90151 I		A	CCACCAGGTCCCGGGGGCCT				
90151 P	G	A	ATGACGTGGCAGACGGGGTCAAAGTCAGGY				
90151 P	A	A	CGCGCCGAGGAGGGTCAAAGTCAGGTY				
90151 T	G	A	GGAGACCTGACTTTTGACCCCGGCCCCGGGACCTGGTGGAG				
90151 T	A	A	GGAGACCTGACTTTTGACCCTGGCCCCGGGACCTGGTGGAG				
90151 IS	[GA]		GGTGAAGTCAGGACCTAGCCCTCGAACCACCACCCAGGGCTCCACCAGGTCCCCGGGGGCC[GA]GGGTCAAAAGTCAGGTCTCCCCCGCAGGGCGCACAGGAGCCTCGGGT CGGCACTCCCGG	ctg17042	11	EPHB4	
90153 I		A	GGAGGGATGGGCCCAGTGCGACT				
90153 P	A	A	CGCGCCGAGGATAGAGGACTGAAGCCTY				
90153 P	G	A	ATGACGTGGCAGAGGTAGAAGGACTGAAGCCTY				
90153 T	A	A	GGGCAGGCTTCAGTCCTTCTATGTCGCACTGGGCCCATCCCTCCAG				
90153 T	G	A	GGGCAGGCTTCAGTCCTTCTACGTCGCACTGGGCCCATCCCTCCAG				
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90157 I		S	CCAAGTATTACAACTATGTGGCCGTGCTGTCCCTT				
90157 P	G	S	ATGACGTGGCAGACGATCGCCACCATCATGY				
90157 P	T	S	CGCGCCGAGGAATCGCCACCATCATGY				
90157 T	G	S	CCAGCATGATGGTGGCGATGAGGGACAGCACGGCCACATAGTTGTAATACTTGGGG				
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90167 P	G	A	ATGACGTGGCAGACGATCAGCATGACTGGAGGY				
90167 P	A	A	CGCGCCGAGGAATCAGGATGACTGGAGGY				
90167 T	G	A	CAGACCTCCAGTCATCCTGATCCGAGGAAACAGGAAAACGTGCTCACCTTTTACTGCC				
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90181 P	A	A	CGCGCCGAGGAACATATTTAAAGTCAGCCCTY				
90181 T	G	A	CAGCAGGGCTGACTTTAAATATGTCACATATATTATCTCTAAAGATTGTCACTGAATATCCTCAGCAGGCAGGAACAC				
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90192 P	G	A	ATGACGTGGCAGACGGACCGCTGCAGCY				
90192 P	A	A	CGCGCCGAGGAGACGCTGCAGCY				
90192 T	G	A	GTGCGCTGCAGCGGTCCGCGGCGCGCAGCTGTTTCGGTA				
90192 T	A	A	GTGCGCTGCAGCGGTCTCGCGGCGCGCAGCTGTTTCGGTA				
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90195 P	C	A	ATGACGTGGCAGACCTTTCAGATCAGACTCTGGY				
90195 T	T	A	CTGCCCAGAGTCTGATCTGAAAACAAAAGACTCTTGTTCAGCACAGCTTCCTGCGTAACAA				
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90197 P	T	S	ATGACGTGGCAGACAGGTAAGAAATAAACTGAAGTCY				
90197 T	A	S	TAGGGACTTCAGTTTATTCTCTTACATACTAGGAGAGTGCTTGGGGAGGAGGCTAGAGGC				
90197 T	T	S	TAGGGACTTCAGTTTATTCTCTTACTTACTAGGAGAGTGCTTGGGGAGGAGGCTAGAGGC				
90197 IS	[AT]		AGGATATGACCACTTAGGTGAGACCTTGGCCTCTAGGGACTTCAGTTTATTCTCTTACC[AT]TACTAGGAGAGTGCTTGGGGAGGAGGCTAGAGGCAGTGTCTGCACCC AGGCTGAATGTTG	ctg3454	17		
90226 I		S	GAGGAGGGCCCAGGGCTGCTGT				
90226 P	C	S	ATGACGTGGCAGACGCCTTCAGCCCTTCCY				
90226 P	T	S	CGCGCCGAGGAACCTTCAGCCCTTCCY				
90226 T	C	S	GGGAGGAAGGGCTGAAGCCCAGCAGCCCTGGGCCCTCCTCTG				
90226 T	T	S	GGGAGCAAGGGCTGAAGGTCAGCAGCCCTGGGCCCTCCTCTG				
90226 IS	[CT]		GACTCCTCAGTGTCTACCGGGGGTGATGGGCGACACTCACCAGGGAGGAGGAGGCTGAAGG[CT]CAGCAGCCCTGGGCCCTCCTCTGGCTGCCCTGCTGCATGACCCTGCAC CGTCTCCTAAAT	ctg832	11		
90228 I		S	CAGCATGCCAGGTACCTTCAGACTCAGCCT				
90228 P	C	S	ATGACGTGGCAGACGTCCACTTGGGTCAGCT				
90228 P	T	S	CGCGCCGAGGATCCACTTGGGTCACCY				
90228 T	C	S	GGAAGGTGACCCAAGTGGAGGCTGAGTCTGAAGGTACCTGGCATGCTGAG				
90228 T	T	S	GGAAGGTGACCCAAGTGGATGGCTGAGTCTGAAGGTACCTGGCATGCTGAG				
90228 IS	[CT]		GAAACTAGTATCACCCAGGCAGGCAACACAGCCACCCACTGGGAAGGTGACCCAAGTGGA[CT]GGCTGAGTCTGAAGGTACCTGGCATGCTGAGTGTCTTAGGCAGGGT GTCTGGGCCATGTG	ctg226n3	22		
90230 I		A	GAAAAGGTTCTCCATGTTTTGATGCATTTCTTGTGATTTTTTTC				
90230 P	A	A	CGCGCCGAGGAATCTAACAGCATAGTGTATATATTGY				

FIGURE 129C



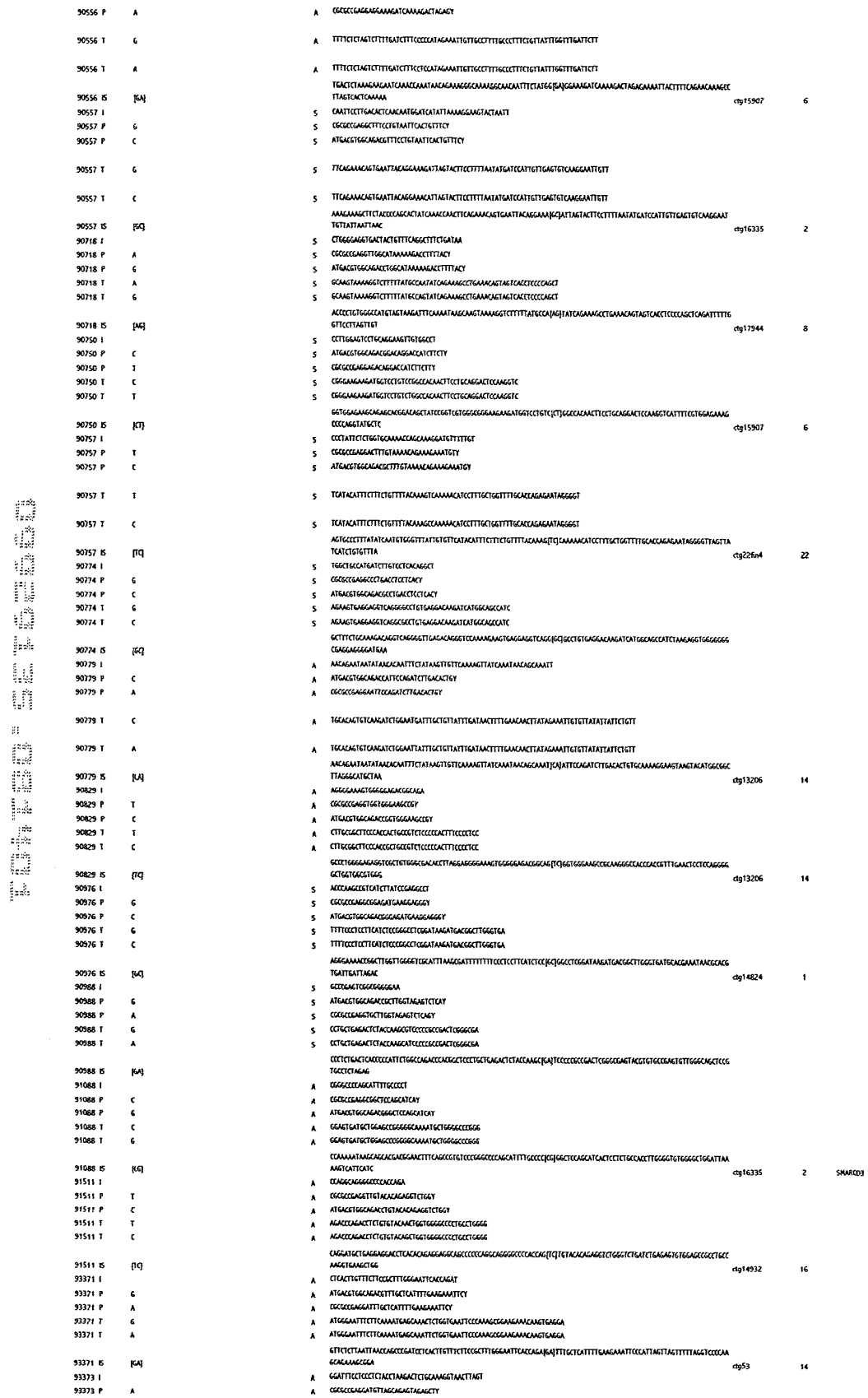

90556 P A A CGCGCCGAGGAGGAAAGATCAAAAGACTAGAGT
90556 T G A TTTTCTCTAGTCTTTTGATCTTTCCCCCATAGAAATTGTTGCCTTTTGCCCTTTCTGTTATTTGGTTTGATTCTT
90556 T A A TTTTCTCTAGTCTTTTGATCTTTCCTCCATAGAAATTGTTGCCTTTTGCCCTTTCTGTTATTTGGTTTGATTCTT
90556 IS [GA] TGACTCTAAAGAAGAATCAAACCAAATAACAGAAAGGGCAAAAGGCAACAATTTCTATGG[GA]CGAAAGATCAAAAGACTAGAGAAAATTACTTTTCAGAACAAAGCC TTAGTCACTCAAAAA ctg15907 6
90557 I S CAATTCCTTGACACTCAACAATGGATCATATTAAAAGGAAGTACTAATT
90557 P G S CGCGCCCAGGCTTTCCCTGTAATTCACTGTTTCY
90557 P C S ATGACGTGGCAGACGTTTCCTGTAATTCACTGTTTCY
90557 T G S TTCAGAAACAGTGAATTACAGGAAAGATTAGTACTTCCTTTTAATATGATCCATTGTTGAGTGTCAAGGAATTGTT
90557 T C S TTCAGAAACAGTGAATTACAGGAAACATTAGTACTTCCTTTTAATATGATCCATTGTTGAGTGTCAAGGAATTGTT
90557 IS [GC] AAAGAAAGCTTCTACCCCAGCACTATCAAACCAACTTCAGAAACAGTGAATTACAGGAAA[GC]ATTAGTACTTCCTTTTAATATGATCCATTGTTGAGTGTCAAGGAAT TGTTATTAATTAAC ctg16335 2
90718 I S CTGGGCAGGTGACTACTGTTTCAGGCTTTCTGATAA
90718 P A S CGCGCCCAGGTTGGCATAAAAAGACCTTTTACY
90718 P G S ATGACGTGGCAGACCTGGCATAAAAAGACCTTTTACY
90718 T A S GCAAGTAAAAAGGTCTTTTTATGCCAATATCAGAAAGCCTGAAACAGTAGTCACCTCCCCAGCT
90718 T G S GCAAGTAAAAAGGTCTTTTTATGCCAGTATCAGAAAGCCTGAAACAGTAGTCACCTCCCCAGCT
90718 IS [AG] ACCCCTGTGGGCCATGTAGTAAGATTTCAAAATAAGCAAGTAAAAGGTCTTTTTATGCCA[AG]TATCAGAAAGCCTGAAACAGTAGTCACCTCCCCAGCTCAGATTTTTG GTTCCTTAGTTGT ctg17944 8
90750 I S CCTTGGAGTCCTGCAGGAAGTTGTGGCCT
90750 P C S ATGACGTGGCAGACGGCAGCAGGACCATCTTCTTY
90750 P T S CGCGCCCAGGCAGCACAGGACCATCTTCTTY
90750 T C S CGGGAAGAAGATGGTCCTGTCTGGCCACAACTTCCTGCAGGACTCCAAGGTC
90750 T T S CGGGAAGAAGATGGTCCTGTCTGGCCACAACTTCCTGCAGGACTCCAAGGTC
90750 IS [CT] GGTGGAGAAGCAGCAGCAGCGATATCCGGTCGTGGCGGCGGAAGAAGATGGTCCTGTC[CT]GGCCACAACTTCCTGCAGGACTCCAAGGTCATTTTCGTGGACAAAG CCCCAGGTATGCTC ctg15907 6
90757 I S CCCTATTCTCTGGTGCAAAACAGCAAAGGATGTTTTTGT
90757 P T S CGCGCCGAGGACTTTGTAAAACAGAAAGAAATGTY
90757 P C S ATGACGTGGCAGACGCTTTGTAAAACAGAAAGAAATGY
90757 T T S TCATACATTTCTTTCTGTTTTACAAAGTCAAAAACATCCTTTGCTGGTTTTGCACCAGAGAATAGGGGT
90757 T C S TCATACATTTCTTTCTGTTTTACAAAGCCAAAAACATCCTTTGCTGGTTTTGCACCAGAGAATAGGGGT
90757 IS [TC] AGTGCCCTTTATATCAATGTGGGTTTATTGTGTTCATACATTTCTTTCTGTTTTACAAAG[TC]CAAAAACATCCTTTGCTGGTTTTGCACCAGAGAATAGGGGTTAGTTA TCATCTGTGTTTA ctg22fin4 22
90774 I S TGGCTGCCATGATCTTGTCCTCACAGGCT
90774 P G S CGCGCCGAGGCCCTGACCTCCTCACY
90774 P C S ATGACGTGGCAGACGCCTGACCTCCTCACY
90774 T G S AGAAGTGAGCAGGTCAGGGGCCTGTGAGGACAAGATCATGGCAGCCATC
90774 T C S AGAAGTGAGCAGGTCAGGCGCCTGTGAGGACAAGATCATGGCAGCCATC
90774 IS [GC] GCTTTCTGCAAAGACAGGTCAGGAGTTGACACAGGGTCCAAAAGAAGTGAGGAGGTCAGG[GC]GCCTGTGAGGACAAGATCATGGCAGCCATCTAAGAGGTGGGGGGG CGAGGAGGGGATGAA
90779 I A AACAGAATAATATAAACACAATTTCTATAAGTTGTTCAAAAGTTATCAAATAACAGCAAATT
90779 P C A ATGACGTGGCAGACCATTCCAGATCTTGACACTGY
90779 P A A CGCGCCGAGGAATTCCAGATCTTGACACTGY
90779 T C A TGCACAGTGTCAAGATCTGGAATGATTTGCTGTTATTTGATAACTTTTGAACAACTTATAGAAATTGTGTTATATTATTCTGTT
90779 T A A TGCACAGTGTCAAGATCTGGAATTATTTGCTGTTATTTGATAACTTTTGAACAACTTATAGAAATTGTGTTATATTATTCTGTT
90779 IS [AA] AACAGAATAATATAAACACAATTTCTATAAGTTGTTCAAAAGTTATCAAATAACAGCAAAT[CA]ATTCCAGATCTTGACACTGTGCAAAAGGAAGTAAGTACATGGCGGC TTAGGGCATGCTAA ctg13206 14
90829 I A AGGGAAAGTGGGGGAGACGGCAGA
90829 P T A CGCGCCGAGGTGGTGGGAAGCGGY
90829 P C A ATGACGTGGCAGACCGGTGGGAAGCGGY
90829 T T A CTTGCGGCTTCCCACCACTGCCGTCTCCCCCACTTYCCCCTCC
90829 T C A CTTGCGGCTTCCCACCGCTGCCGTCTCCCCCACTTYCCCCTCC
90829 IS [TC] GCCCTGGGGAAGAGGTGGCTGTGGGCGACACCTTAGGAGGGGAAAGTGGGGGAGACGGCAG[TC]GGGTGGGAAGCCCGCAAGGGCCACCCACGTTTGAACTCCTCCAGGGG GCTGGTGGCGTGGG ctg13206 14
90976 I S ACCCAAGCCGTCATCTTATCCGAGGCCT
90976 P G S CGCGCCGAGGCGGAGATGAAGGAGGGY
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90976 T G S TTTTCCCTCCTTCATCTCCGGGCCTCGGATAAGATGACGGCTTGGGTGA
90976 T C S TTTTCCCTCCTTCATCTCCCGGCCTCGGATAAGATGACGGCTTGGGTGA
90976 IS [GC] AGGGAAAACCGGCTTGGTTGGGCTCGCATTTAAGCGATTTTTTTTCCCTCCTTCATCTCC[GC]GGCCTCGGATAAGATGACGGCTTGGGTGATGCACGAAATAACGCACG TGATTGATTAGAC ctg14824 1
90988 I S GCCCGAGTCGGCGGGGGAA
90988 P G S ATGACGTGGCAGACCGCTTGGTAGAGTCTCAY
90988 P A S CGCGCCGAGGTGCTTGGTAGAGTCTCAGY
90988 T G S CCTGCTGAGACTCTACCAAGCGTCCCCCGCCGACTCGGGCGA
90988 T A S CCTGCTGAGACTCTACCAAGCATCCCCCCCCACTCGGGCGA
90988 IS [GA] CCCTCTGACTCAGCCCCATTCTGGCCAGACCCACRGCTCCCTGCTGAGACTCTACCAAGC[GA]TCCCCCCCCGACTCGGGCGAGTACGTGTGCCGAGTGTTGGGCAGCTCCG TGCCTCTAGAG ctg16335 2 SMARCD3
91088 I R CGGGCCCCAAGCATTTTGCCCCT
91088 P C R CGCGCCGAGGCGGCTCCAGCATCAY
91088 P G R ATGACGTGGCAGACGGGCTCCAGCATCAY
91088 T C R GGAGTGATGCTGGAGCCCGGGGGCAAAATGCTGGGGCCCGGG
91088 T G R GGAGTGATGCTGGAGCCCGGGGGCAAAATGCTGGGGCCCGGG
91088 IS [GA] CCAAAAATAAGCAGCACGACGGAACTTTCAGCCGTGTCCCGGGCCCAGCATTTGCCCC[GA]GGCTCCAGCATCACTCCTCTGCCACCTTGGGGTGTGGGGCTGGATTAA AAGTCATTCATC ctg16335 2
91511 I R CCAGGCAGGGGCCCCACCAGA
91511 P T R CGCGCCGAGGTTGTACACAGAGGTCTGGY
91511 P C R ATGACGTGGCAGACCTGTACACAGAGGTCTGGY
91511 T T R AGACCCAGACCTCTGTGTACAGCTGGTGGGGCCCCTGCCTGGGG
91511 T C R AGACCCAGACCTCTGTGTACAGCTGGTGGGGCCCCTGCCTGGGG
91511 IS [TC] CAGGATGCTGAGGAGGCACCTCACACAGAGAGGGCAGCCCCCCAGGCAGGGGCCCCACCAG[TC]TGTACACAGAGGTCTGGGTCTGATCTGAGAGTGTGGAGCCGCCTGCC AAGGTGAAGCTGG ctg14932 16
93371 I R CTCACTTGTTTCTTCCGCTTTGGGAATTCACCAGAT
93371 P G R ATGACGTGGCAGACGTTTGCTCATTTTGAAGAAATTCY
93371 P A R CGCGCCGAGGATTTGCTCATTTTGAAGAAATTCY
93371 T G R ATGGGAATTTCTTCAAAATGAGCAAACTCTGGTGAATTCCCAAAGCGGAAGAAACAAGTGAGGA
93371 T A R ATGGGAATTTCTTCAAAATGAGCAAATTCTGGTGAATTCCCAAAGCGGAAGAAACAAGTGAGGA
93371 IS [GA] GTTCTCTTAATTAACGAGCCGATCCTCACTTGTTCTTCCGCTTTGGGAATTCACCAG[GA]TTTGCTCATTTTGAAGAAATTCCCATTAGTTAGTTTTTAGGTCCCCAA GCACAAAGCGGA ctg53 14
93373 I R GGATTTCCTCCCTCTACCTAAGACTCTGCAAAGGTAACTTAGT
93373 P A R CGCGCCGAGGATGTTAGCAGAGTAGAGCTY

FIGURE 129C

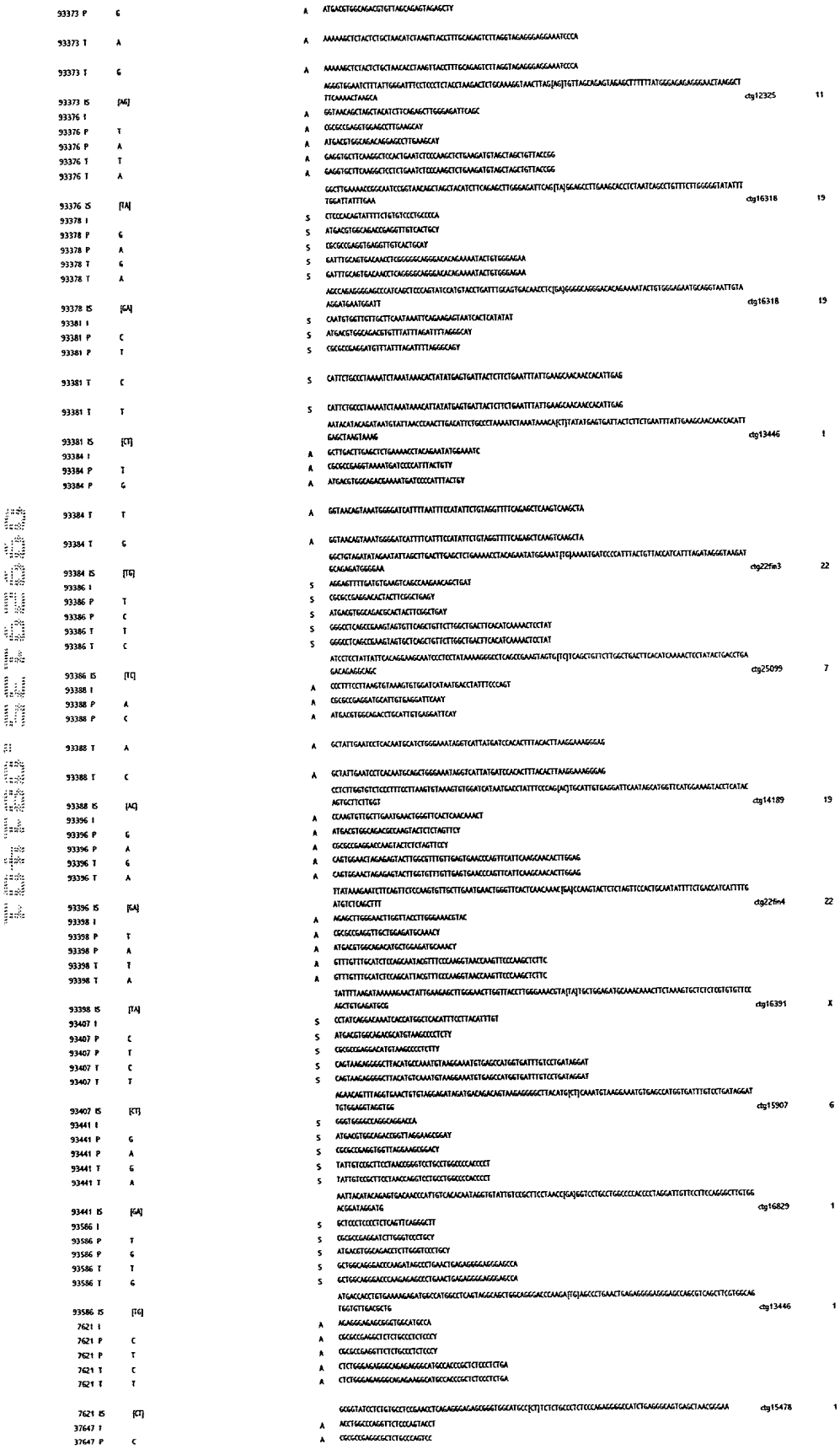


FIGURE 129C

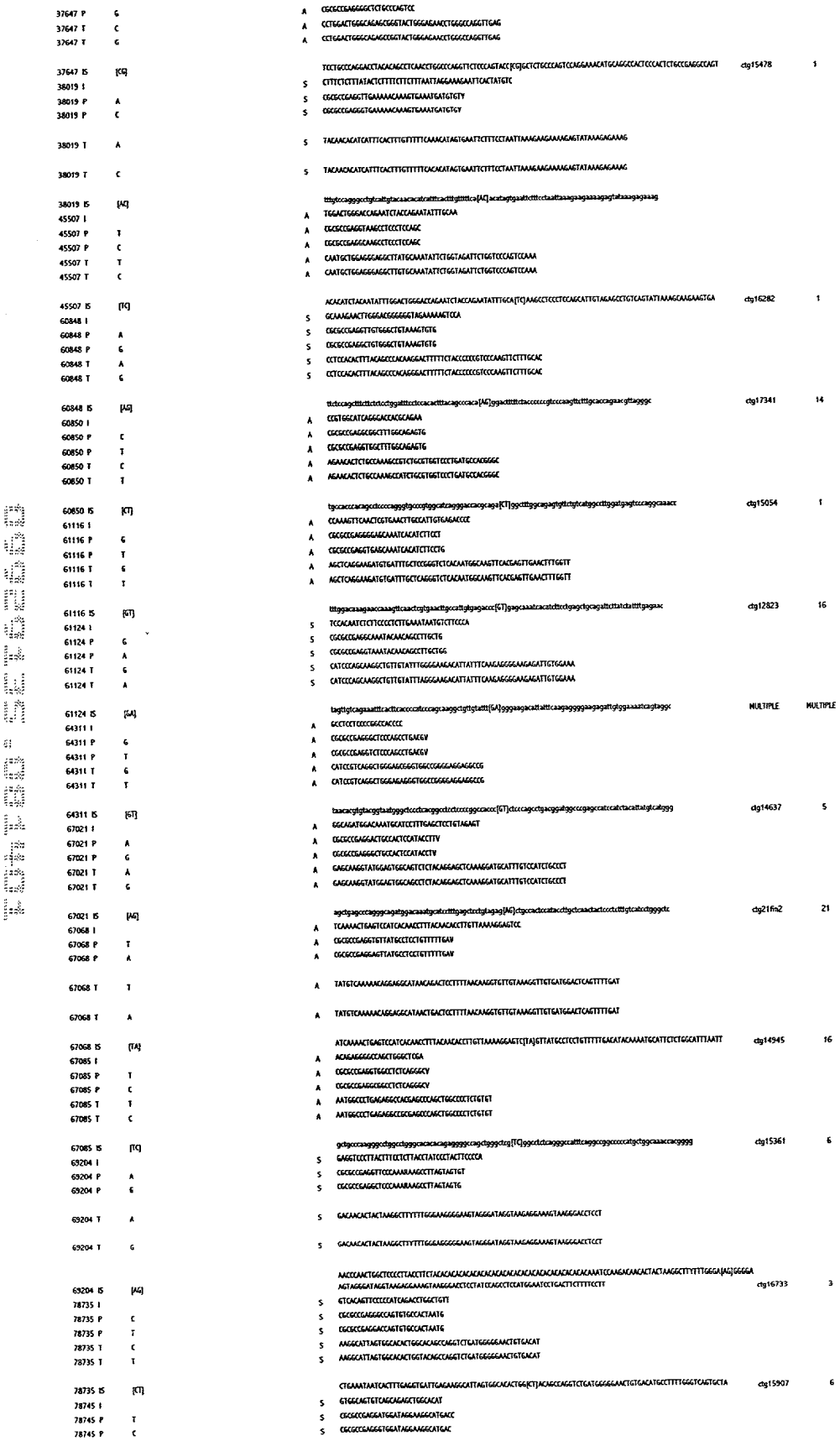


FIGURE 129C

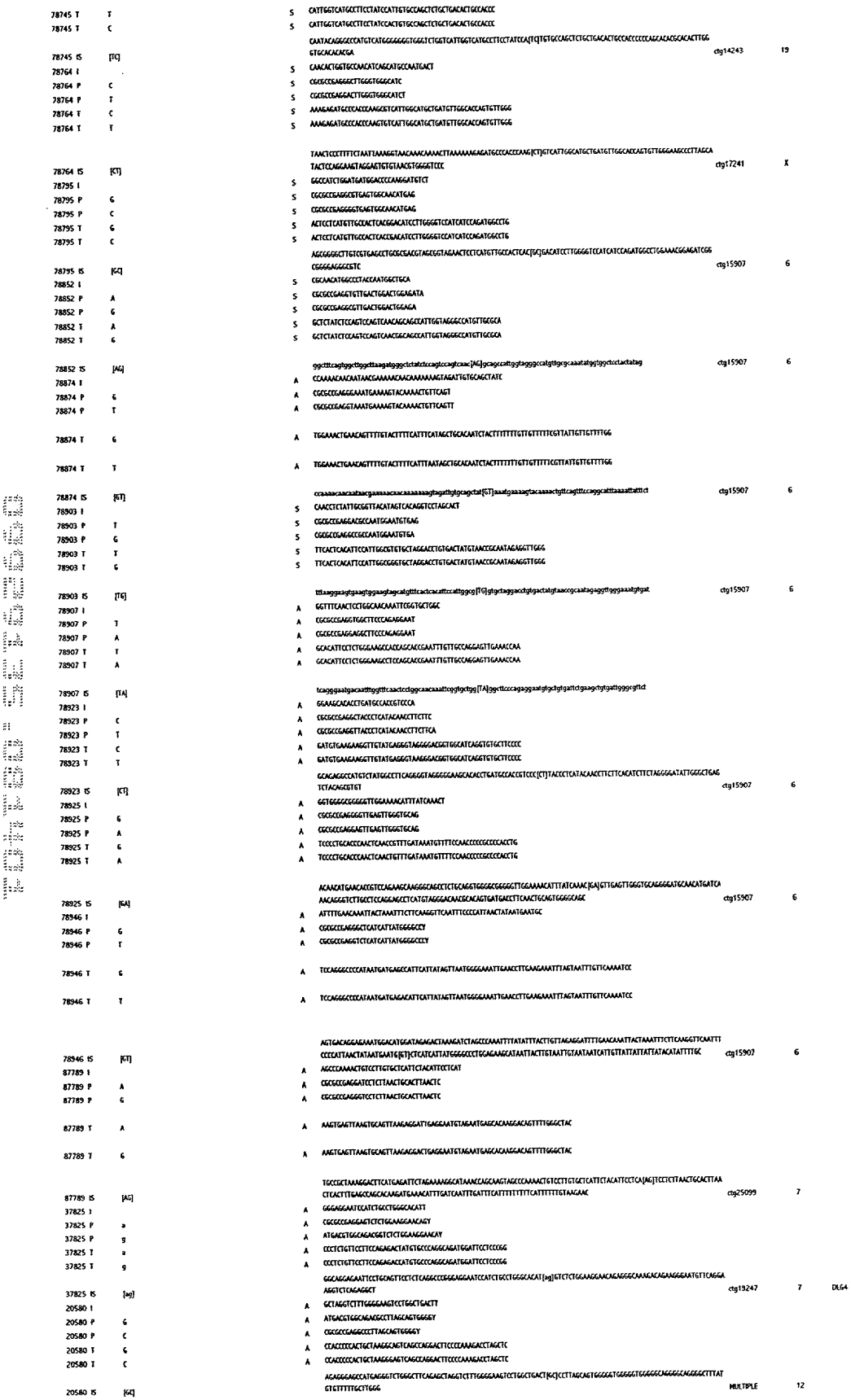


FIGURE 129C

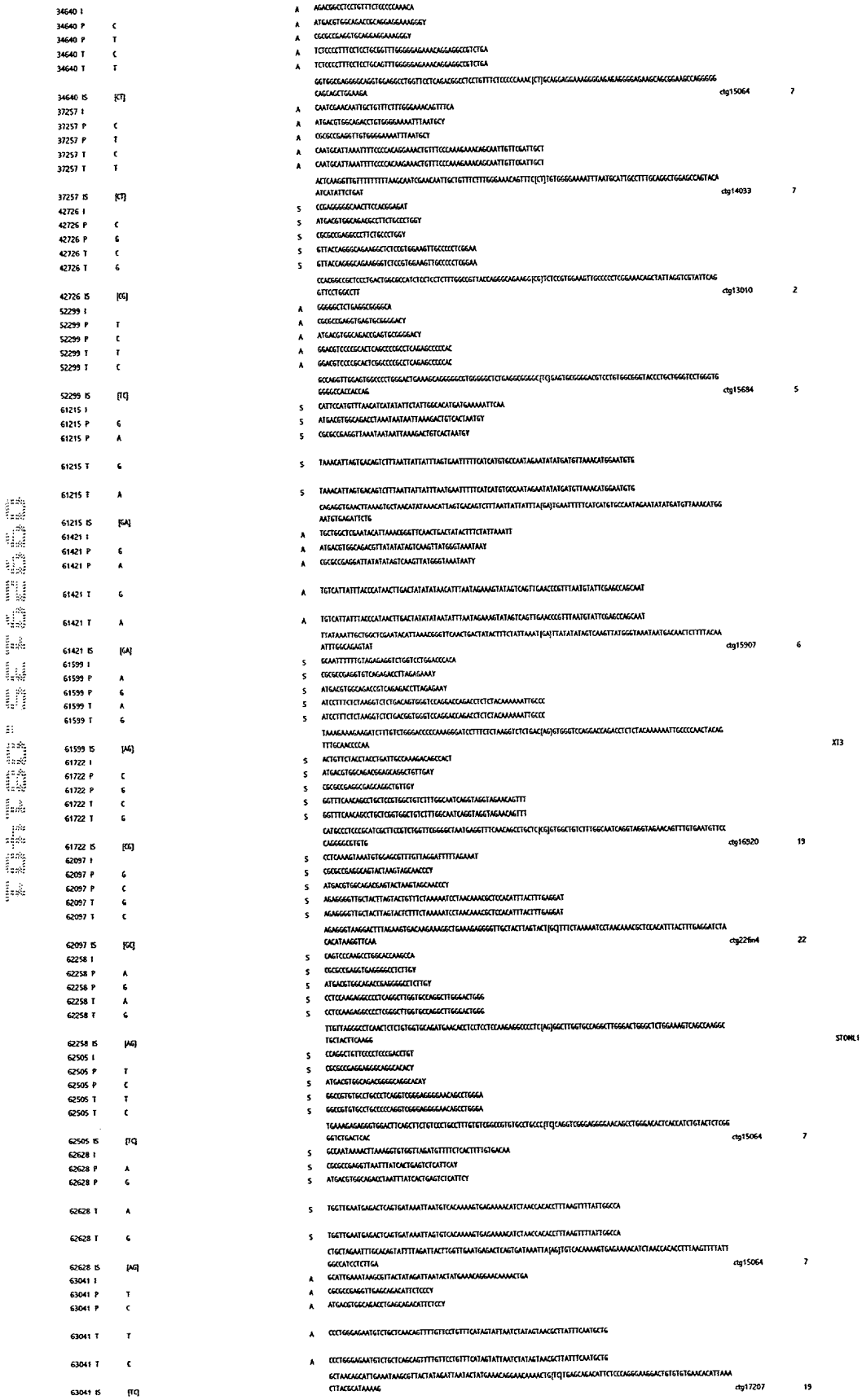


FIGURE 129C

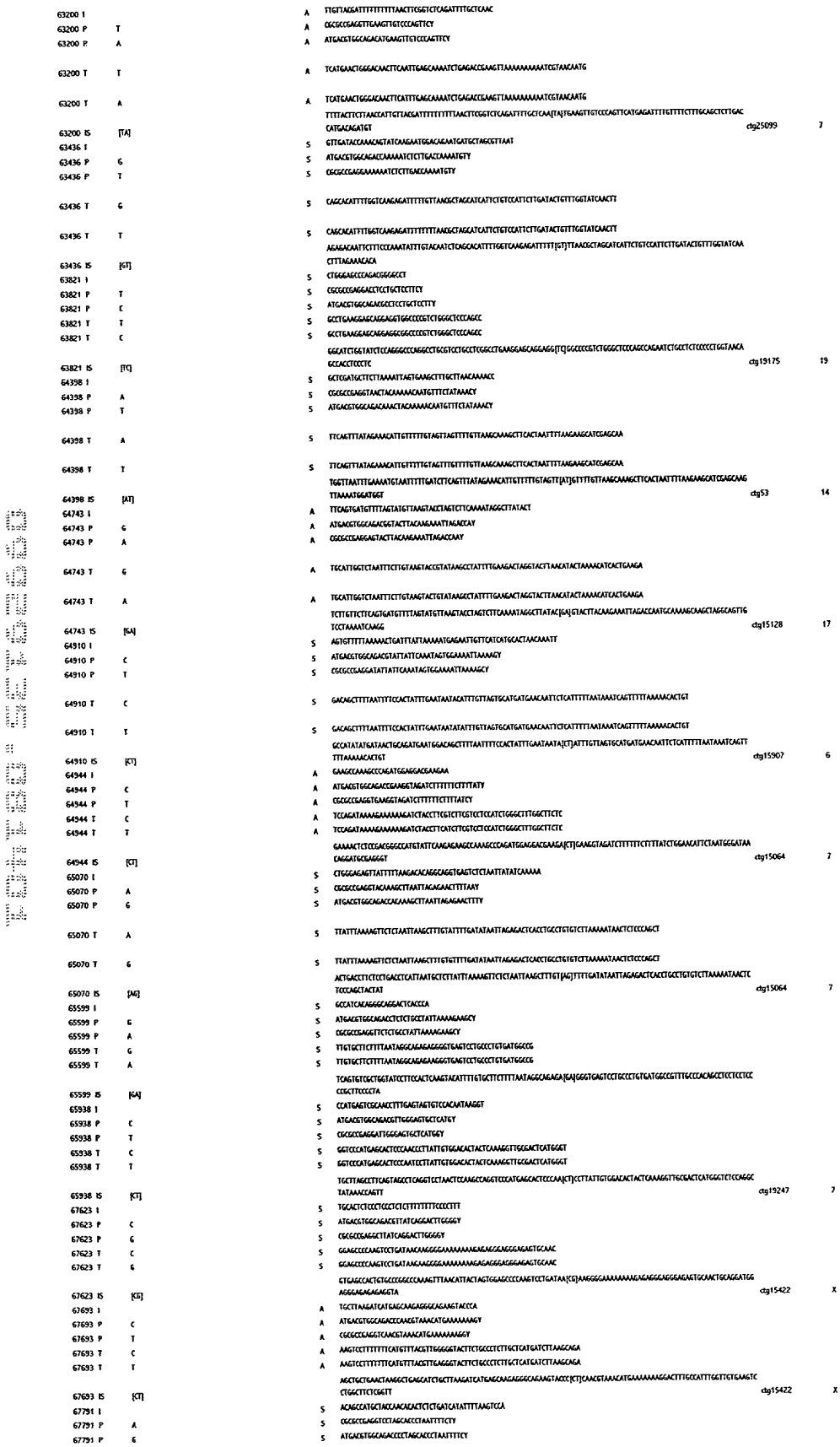


FIGURE 129C

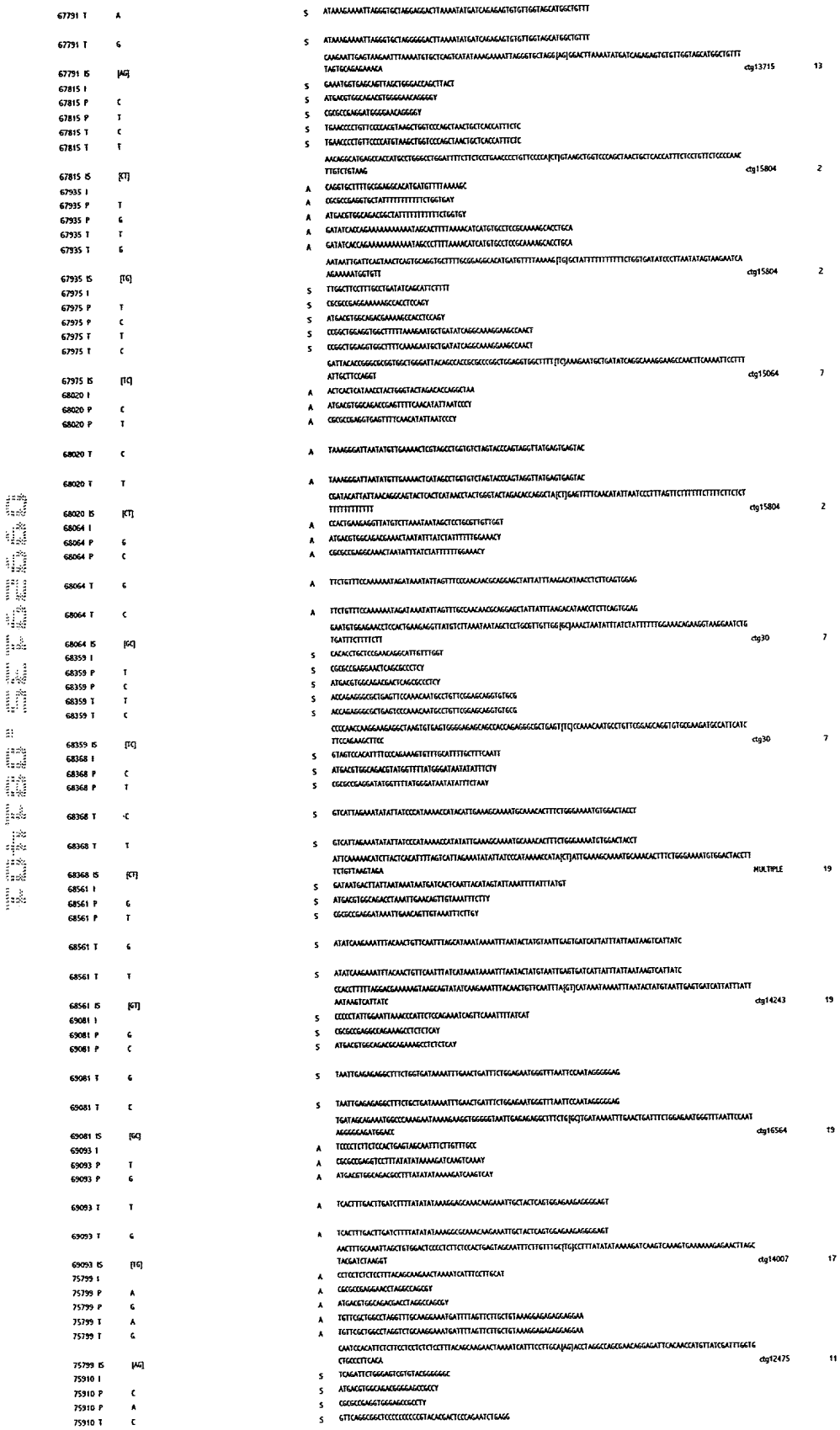


FIGURE 129C

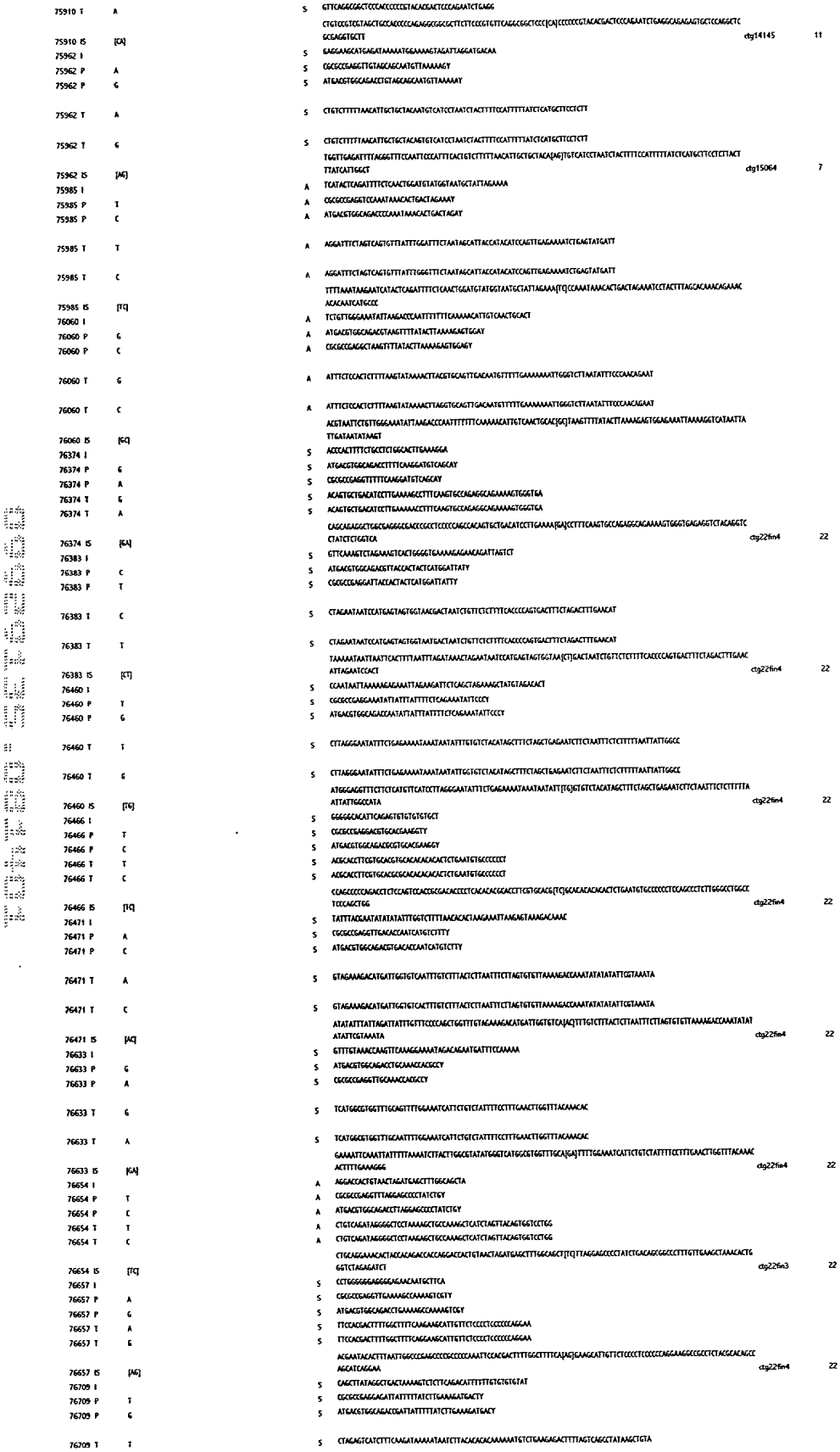


FIGURE 129C

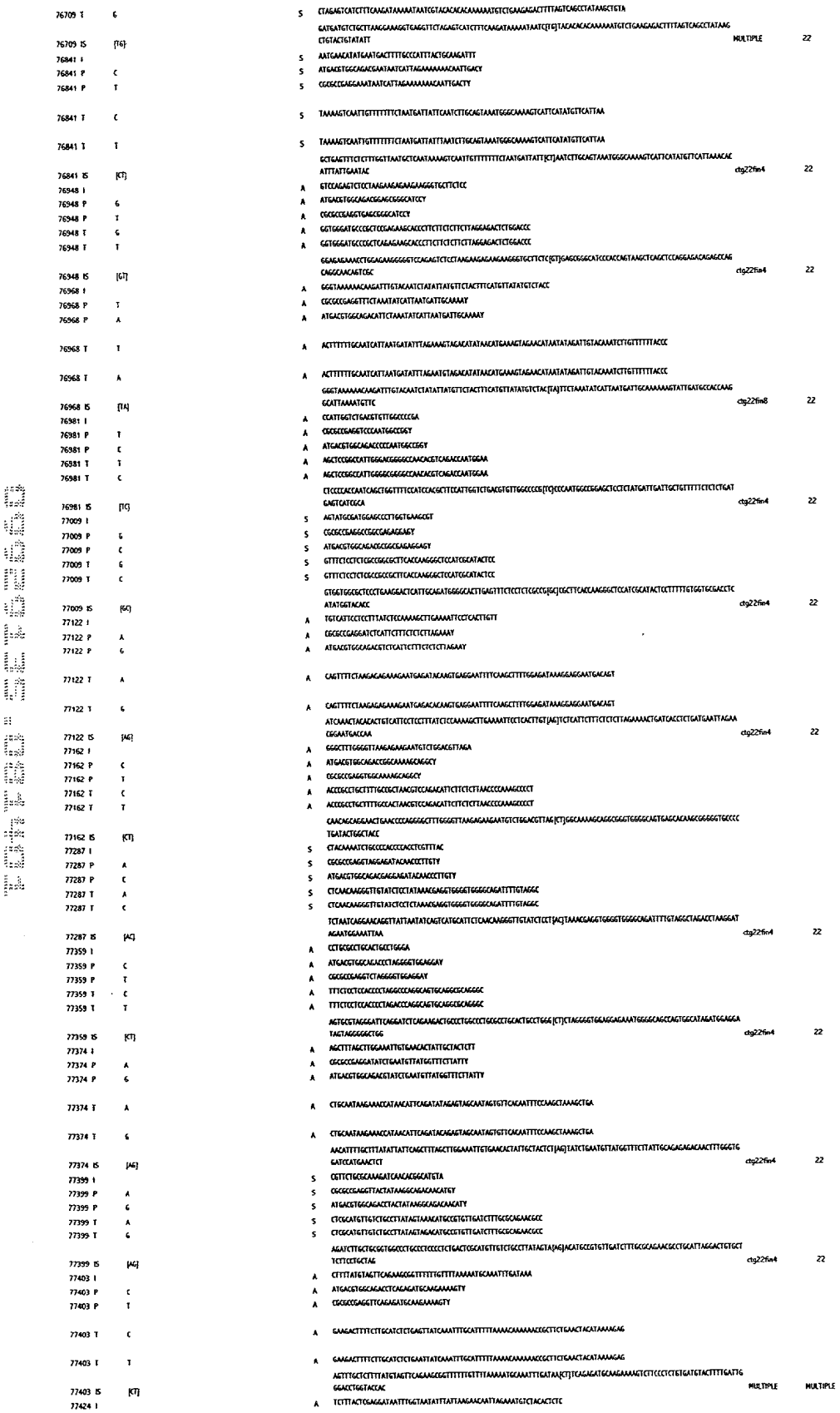


FIGURE 129C

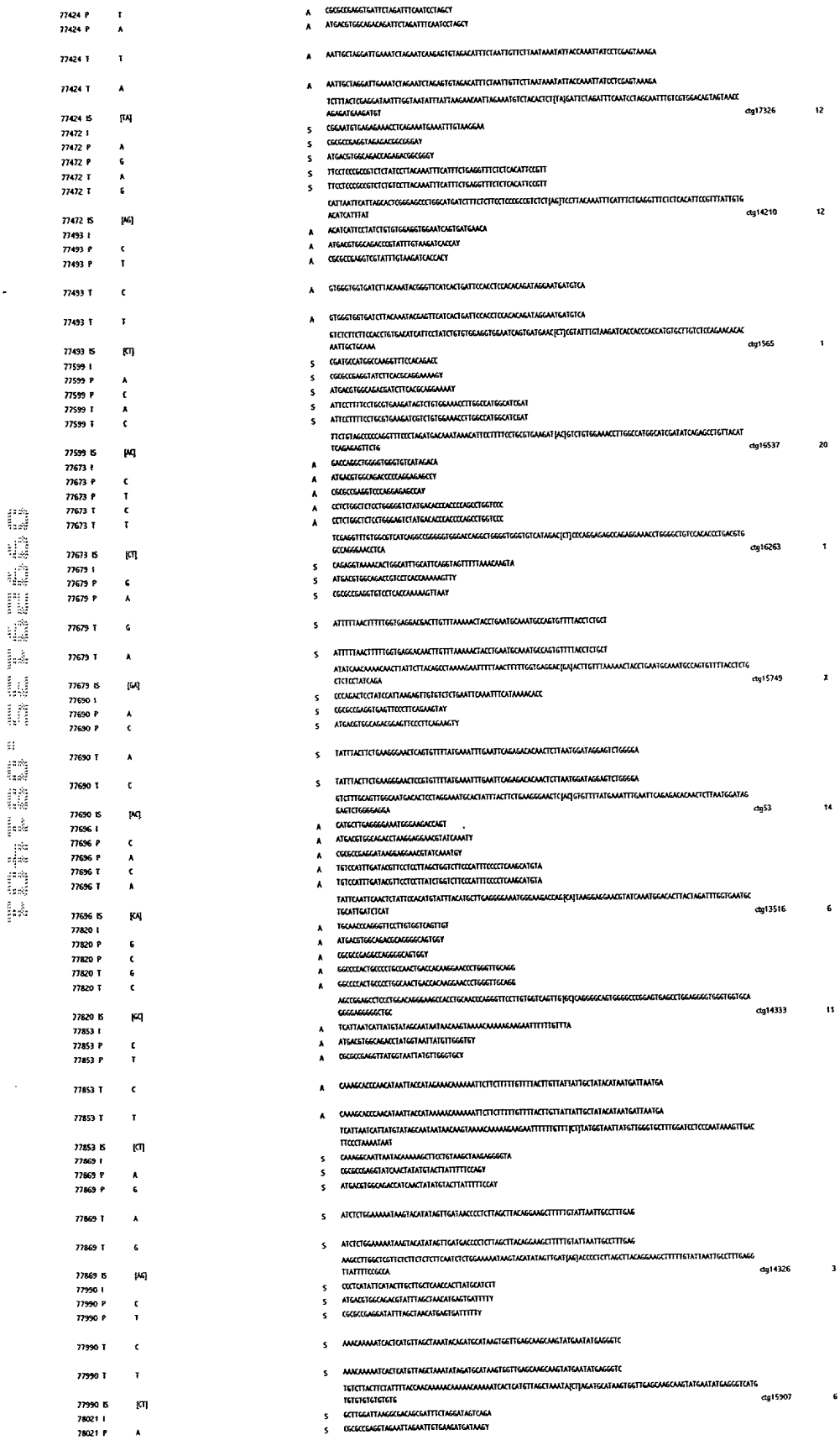


FIGURE 129C

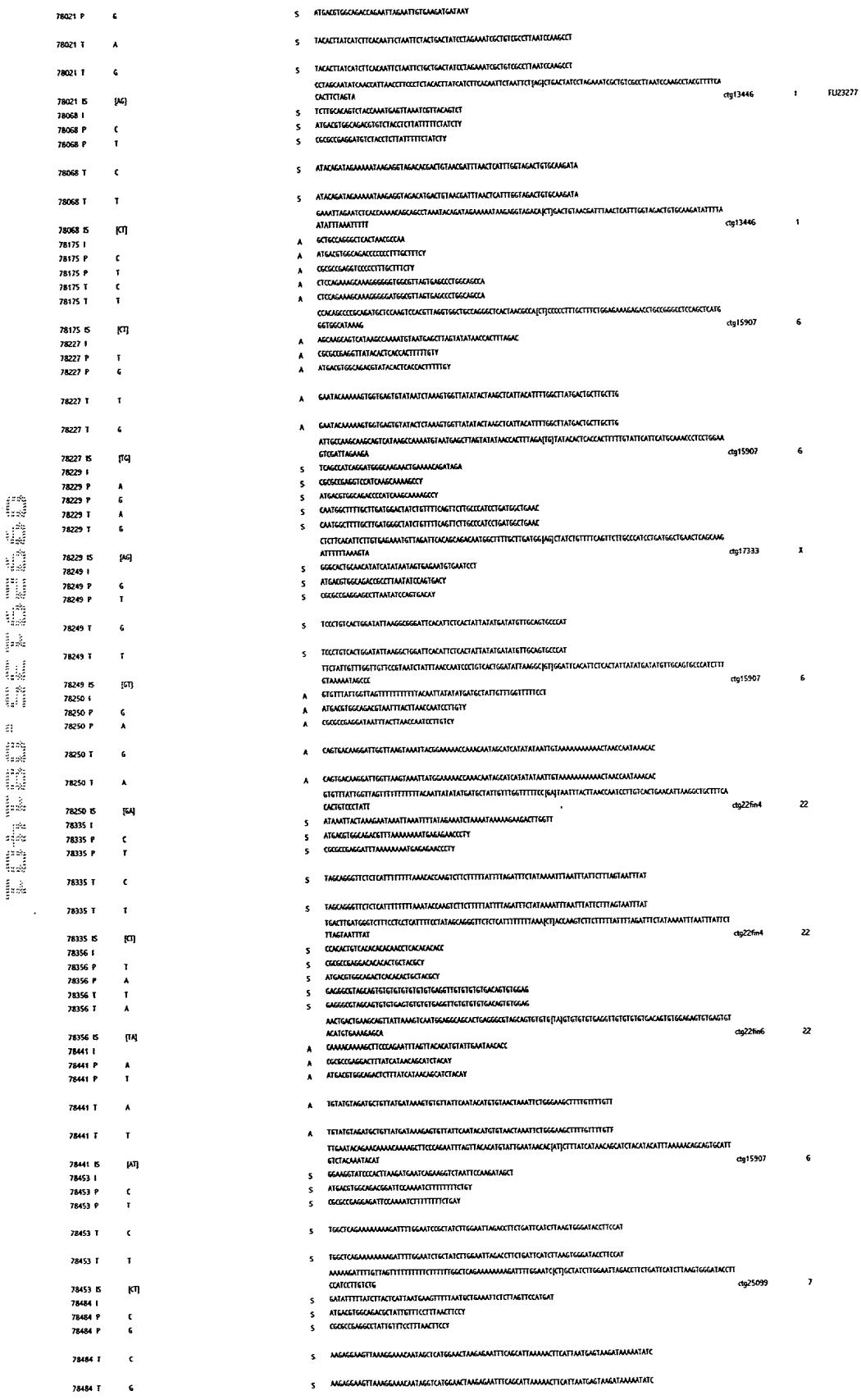


FIGURE 129C

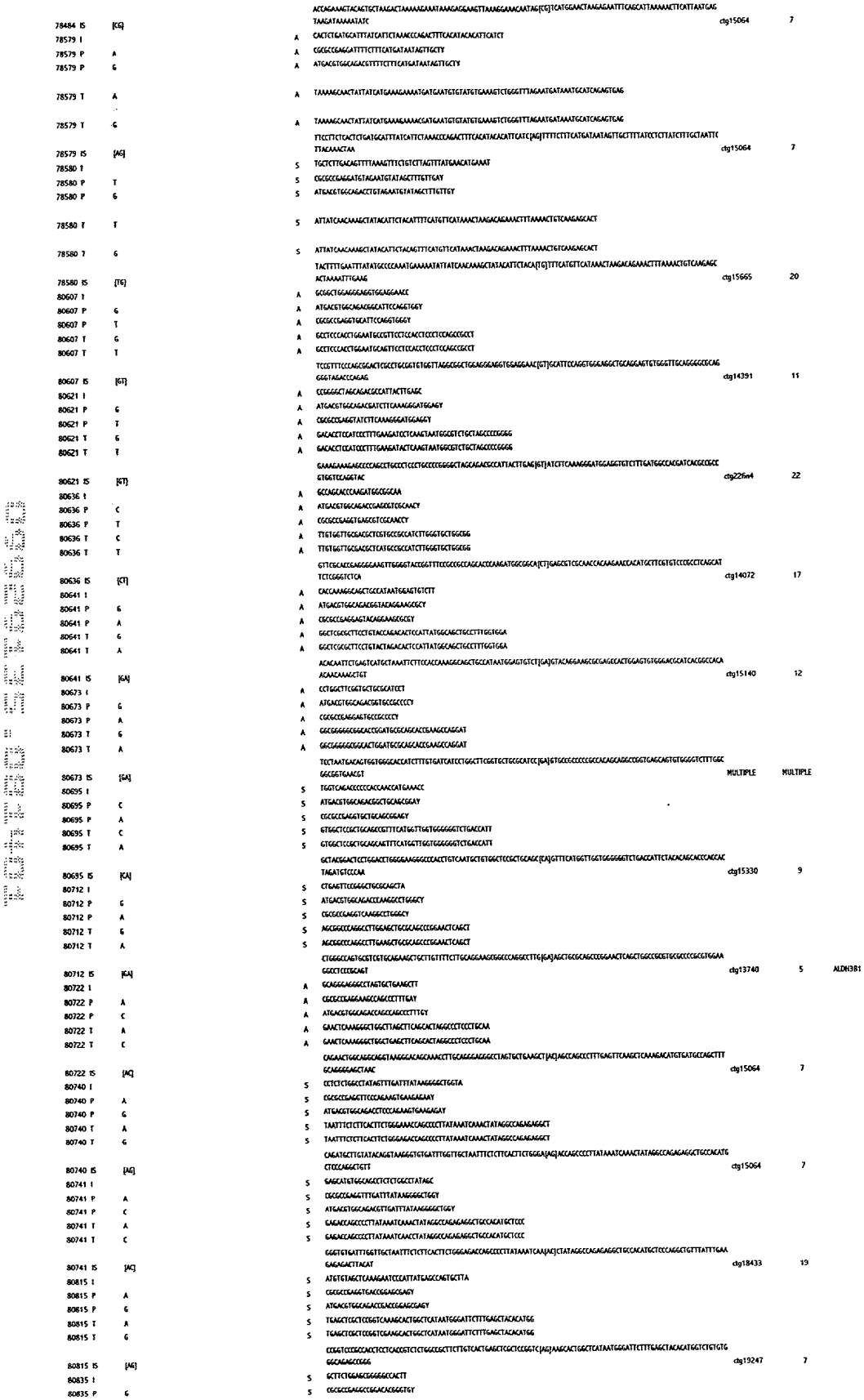
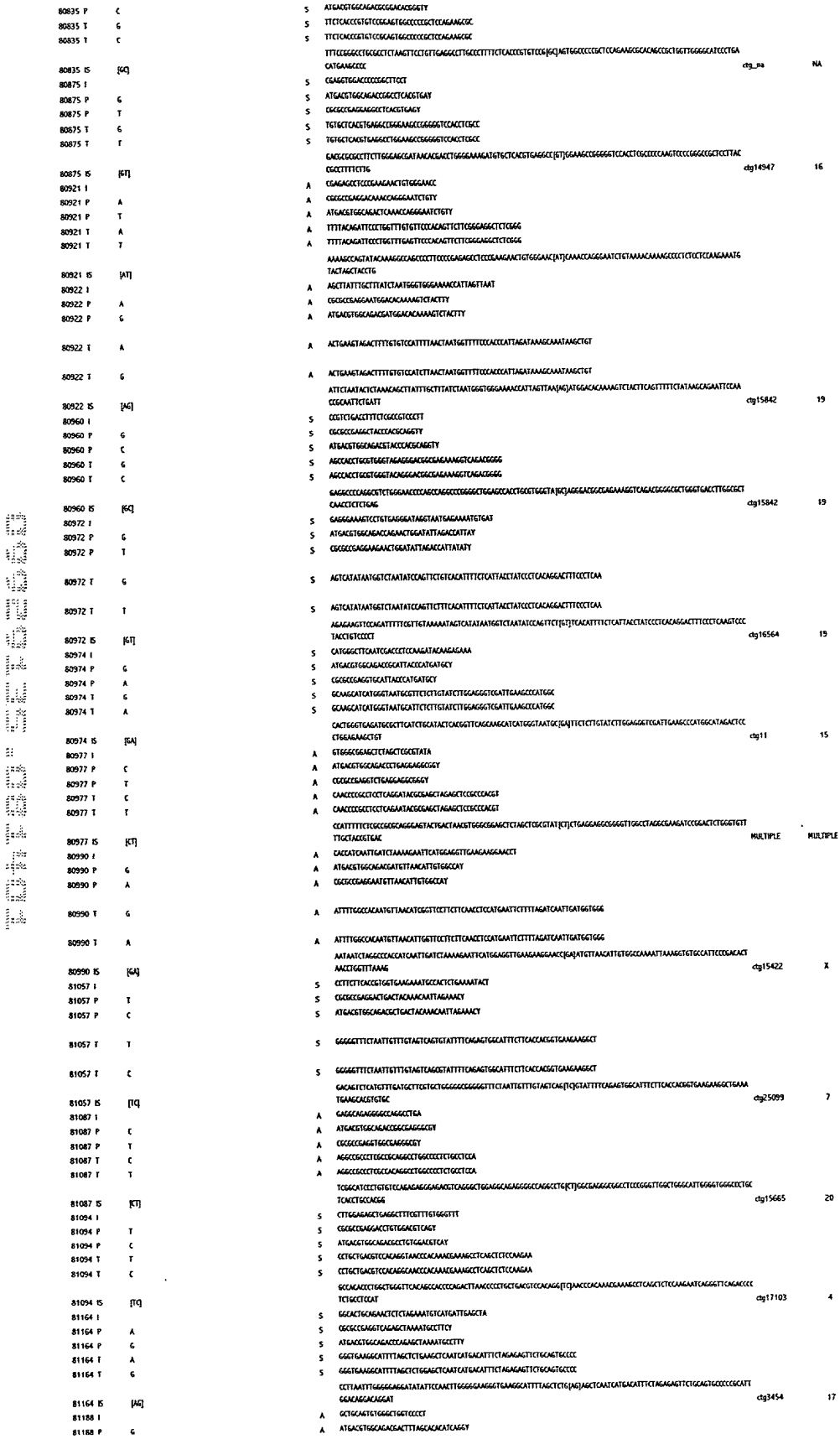


FIGURE 129C


80835 P C S ATGACGTGGCAGACGCGGACACGGGTY
80835 T G S TTCTCACCCGTGTCCGGAGTGGCCCCGCTCCAGAAGCGC
80835 T C S TTCTCACCCGTGTCCGGAGTGGCCCCGCTCCAGAAGCGC
80835 IS [GC] TTTCCGGGCCTGCGCCTCTAAGTTCCTGTTGAGGCCTTGCCCTTTTCTCACCCGTGTCCG[GC]AGTGGCCCCCGCTCCAGAAGCGCACAGCCGCTGGTTGGGGCATCCCTGA CATGAAGCCCC ctg_na NA
80875 I S CGAGGTGGACCCCCGGCTTCCT
80875 P G S ATGACGTGGCAGACCGGCCTCACGTGAY
80875 P T S CGCGCCGAGGAGGCCTCACGTGAGY
80875 T G S TGTGCTCACGTGAGGCCGGGAAGCCCGGGGGTCCACCTCGCC
80875 T T S TGTGCTCACGTGAGGCCTGGAAGCCGGGGGTCCACCTCGCC
80875 IS [GT] GACGCGCGCCTTCTTGGGAGCGATAACACGACCTGGGGAAAGATGTGCTCACGTGAGGCC[GT]GGAAGCCGGGGGTCCACCTCGCCCCCAAGTCCCCGGGCCGCTCCTTAC CGCCTTTTCTTG ctg14947 16
80921 I A CGAGAGCCTCCCGAAGAACTGTGGGAACC
80921 P A A CGGCCCGAGCACAAACCAGGGAATCTGTY
80921 P T A ATGACGTGGCAGACTCAAACCAGGGAATCTGTY
80921 T A A TTTTACAGATTCCCTGGTTTGTGTTCCCACAGTTCTTCGGGAGGCTCTCGGG
80921 T T A TTTTACAGATTCCCTGGTTTGAGTTCCCACAGTTCTTCGGGAGGCTCTCGGG
80921 IS [AT] AAAAGCCAGTATACAAAGGCCAGCCCCTTCCCCGAGAGCCTCCGGAAGAACTGTGGGGAAC[AT]CAAACCAGGGAATCTGTAAAACAAAAGCCCCTCTCCTCCAAGAAATG TACTAGCTACCTG
80922 I A AGCTTATTTGCTTTATCTAATGGGTGGGAAAACCATTAGTTAAT
80922 P A A CGCGCCCGAGGAATGGACACAAAAGTCTACTTY
80922 P G A ATGACGTGGCAGACGATGGACACAAAAGTCTACTTY
80922 T A A ACTGAAGTAGACTTTTGTGTCCATTTTAACTAATGGTTTTCCCACCCATTAGATAAAGCAAATAAGCTGT
80922 T G A ACTGAAGTAGACTTTTGTGTCCATCTTAACTAATGGTTTTCCCACCCATTAGATAAAGCAAATAAGCTGT
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80960 P G S CGCGCCCAAGCTACCCACGCAGGTY
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80960 T C S AGCCACCTGCGTGGGTACAGGGACGCGCAGAAAGGTCAGACGGGG
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80972 I S GAGGGAAAGTCCTGTGAGGGATAGGTAATGAGAAATGTGAT
80972 P G S ATGACGTGGCAGACAGAACTGGATATTAGACCATTAY
80972 P T S CGCGCCCAGGAAGAACTGGATATTAGACCATTATATY
80972 T G S AGTCATATAATGGTCTAATATCCAGTTCTGTCACATTTTCTCATTACCTATCCCTCACAGGACTTTCCCTCAA
80972 T T S AGTCATATAATGGTCTAATATCCAGTTCTTTCACATTTTCTCATTACCTATCCCTCACAGGACTTTCCCTCAA
80972 IS [GT] AGAGAAGTCCCAGATTTTTCGTTGTAAAAATAGTCATATAATGGTCTAATATCCAG[TC][GT]TCACATTTTCTCATTACCTATCCCTCACAGGACTTTCCCTCAAGTCCC TACCTGTCCCCT ctg16564 19
80974 I S CATGGGCTTCAATCGACCCTCCAAGATACAAGAGAAA
80974 P G S ATGACGTGGCAGACCGCATTACCCATGATGCY
80974 P A S CGCGCCCAGGTGCATTACCCATGATGCY
80974 T G S GCAAGCATCATGGGTAATGCATTCTCTTGTATCTTGGAGGGTCGATTGAAGCCCATGGC
80974 T A S GCAAGCATCATGGGTAATGCATTCTCTTGTATCTTGGAGGGTCGATTGAAGCCCATGGC
80974 IS [GA] CACTGGGTGAGATGCGCTTCATCTGCATACTCACGGTTCAGCAAGCATCATGGGTAATGC[GA]TTCTCTTGTATCTTGGAGGGTCGATTGAAGCCCATGGCATAGACTCC CTGGAGAAGCTGT ctg11 15
80977 I A GTGGGCGGAGCTCTAGCTCGCGTATA
80977 P C A ATGACGTGGCAGACCCTGAGGAGGCGGY
80977 P T A CGCGCCGAGGTCTGAGGAGGCGGGY
80977 T C A CAACCCCGCCTCCTCAGGATACGCGAGCTAGAGCTCCGCCCACGT
80977 T T A CAACCCCGCCTCCTCAGGATACGCGAGCTAGAGCTCCGCCCACGT
80977 IS [CT] CCATTTTTCTCGCCGCGCAGGGAGTACTGACTAACGTGGGCGAGCTCTAGCTCGCGTAT[CT]CTGAGGAGGCGGGGTTGGCCTAGGCGAAGATCCGGACTCTGGGTGTT TTGCTACCGTGAC MULTIPLE MULTIPLE
80990 I A CACCATCAATTGATCTAAAAGAATTCATGGAGGTTGAAGAAGGAACCT
80990 P G A ATGACGTGGCAGACGATGTTAACATTGTGGCCAY
80990 P A A CGCGCCGAGGAATGTTAACATTGTGGCCAT
80990 T G A ATTTTGGCCACAATGTTAACATCGGTTCCTTCTCAACCTCCATGAATTCTTTTAGATCAATTGATGGTGGG
80990 T A A ATTTTGGCCACAATGTTAACATTGGTTCCTTCTTCAACCTCCATGAATTCTTTTAGATCAATTGATGGTGGG
80990 IS [GA] AATAATCTAGGCCCACCATCAATTGATCTAAAAGAATTCATGGAGGTTGAAGAAGGAACC[GA]ATGTTAACATTGTGGCCAAAATTAAAGGTGTGCCATTCCCGACACT AACCTGGTTTAAAG ctg15422 X
81057 I S CCTTCTTCACCGTGGTGAAGAAATGCCACTCTGAAAATACT
81057 P T S CGCGCCGAGGACTGACTACAACAATTAGAAACY
81057 P C S ATGACGTGGCAGACGCTGACTACAACAATTAGAAACY
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81057 T C S GGGGGTTTCTAATTGTTTGTAGTCAGGTATTTTCAGAGTGGCATTTCTTCACCACGGTGAAGAAGGCT
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81087 I A GAGGCAGAGGGGCCAGGCCTGA
81087 P C A ATGACGTGGCAGACCGGCGAGGCGGY
81087 P T A CGCGCCGAGGTGGCGAGGGCGY
81087 T C A AGGCCGCCCTGGCCGCAGGCCTGGCCCCCTCTGCCTCCA
81087 T T A AGGCCGCCCTGGCCACAGGCCTGGCCCCCTCTGCCTCCA
81087 IS [CT] TCGGCATCCCTGTGTCCAGAGAGGGAGAGTCAGGGCTGGAGGCAGAGGGGCCAGGCCTG[CT]GGCGAGGGCGGCCTCCCCGGGTTGGCTGGGCATTGGGGTGGGCCCTGC TCACCTGCCACGG ctg15665 20
81094 I S CTTGGAGAGCTGAGGCTTTCGTTTGTGGGTTT
81094 P T S CGCGCCGAGGACCTGTGGACGTCAGT
81094 P C S ATGACGTGGCAGACGCCTGTGGACGTCAY
81094 T T S CCTGCTGACGTCCACAGGTAACCCACAAACGAAAGCCTCAGCTCTCCAAGAA
81094 T C S CCTGCTGACGTCCACAGGCAACCCACAAACGAAAGCCTCAGCTCTCCAAGAA
81094 IS [TC] GCCACACCCTGGCTGGGTTCACAGCCACCCCAGACTTAACCCCCTGCTGACGTCCACAGG[TC]AACCCACAAACGAAAGCCTCAGCTCTCCAAGAATCAGGGTTCAGACCCC TCTGCCTCCAT ctg17103 4
81164 I S GGCACTGCAGAACTCTCTAGAAATGTCATGATTGAGCTA
81164 P A S CGCGCCGAGGTCAGAGCTAAAATGCCTTCY
81164 P G S ATGACGTGGCAGACCCAGAGCTAAAATGCCTTY
81164 T A S GGGTGAAGGCATTTTAGCTCTGAAGCTCAATCATGACATTTCTAGAGAGTTCTGCAGTGCCCC
81164 T G S GGGTGAAGGCATTTTAGCTCTGGAGCTCAATCATGACATTTCTAGAGAGTTCTGCAGTGCCCC
81164 IS [AG] CCTTAATTTGGGGGAGGATATATTCCAACTTGGGGGAAGGGTGAAGGCATTTTAGCTCTG[AG]AGCTCAATCATGACATTTCTAGAGAGTTCTGCAGTGCCCCCGCATT GGACAGCACAGGAT ctg3454 17
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81188 P G A ATGACGTGGCAGACGACTTTAGCACACATCAGGY

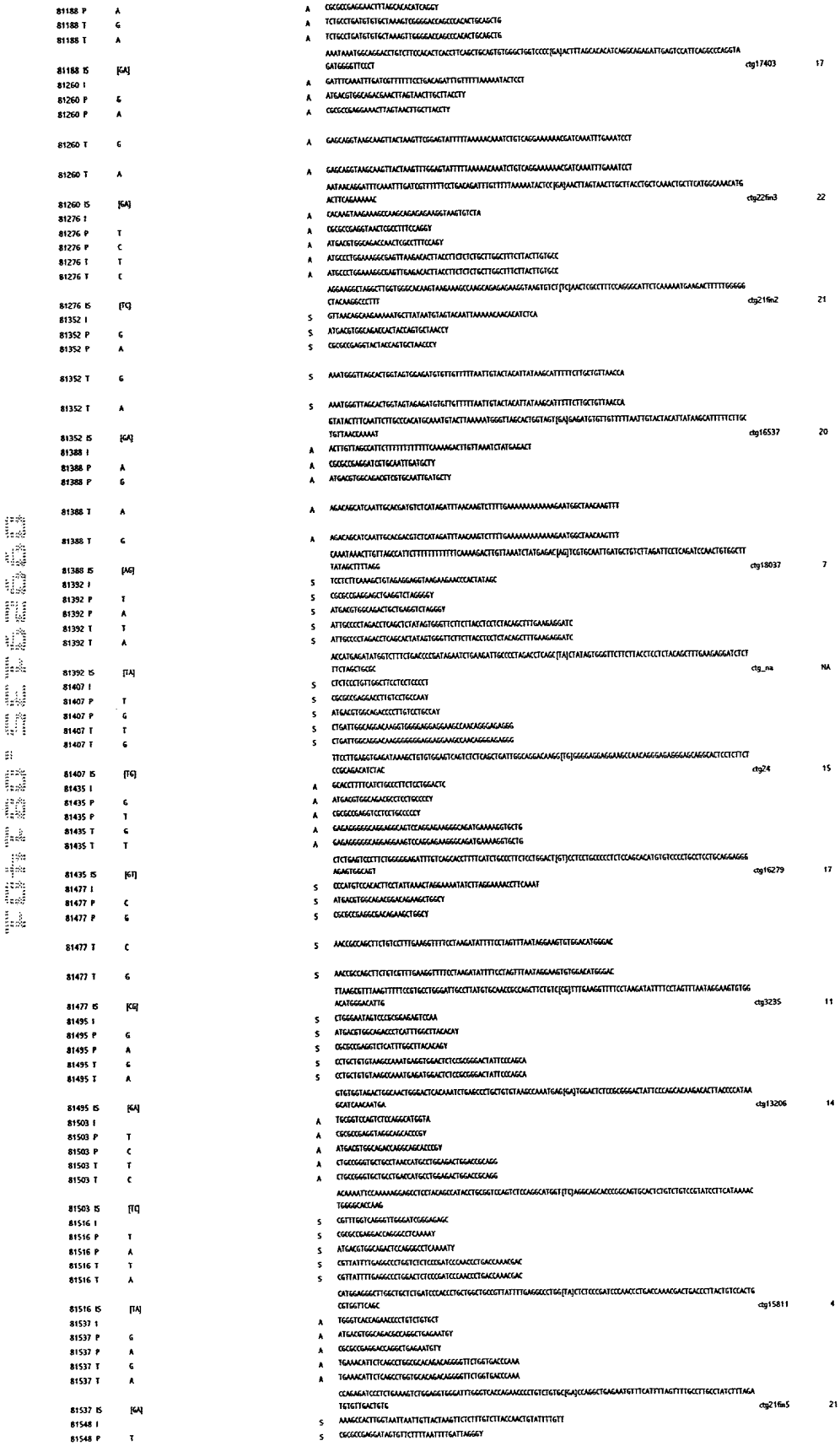


FIGURE 129C

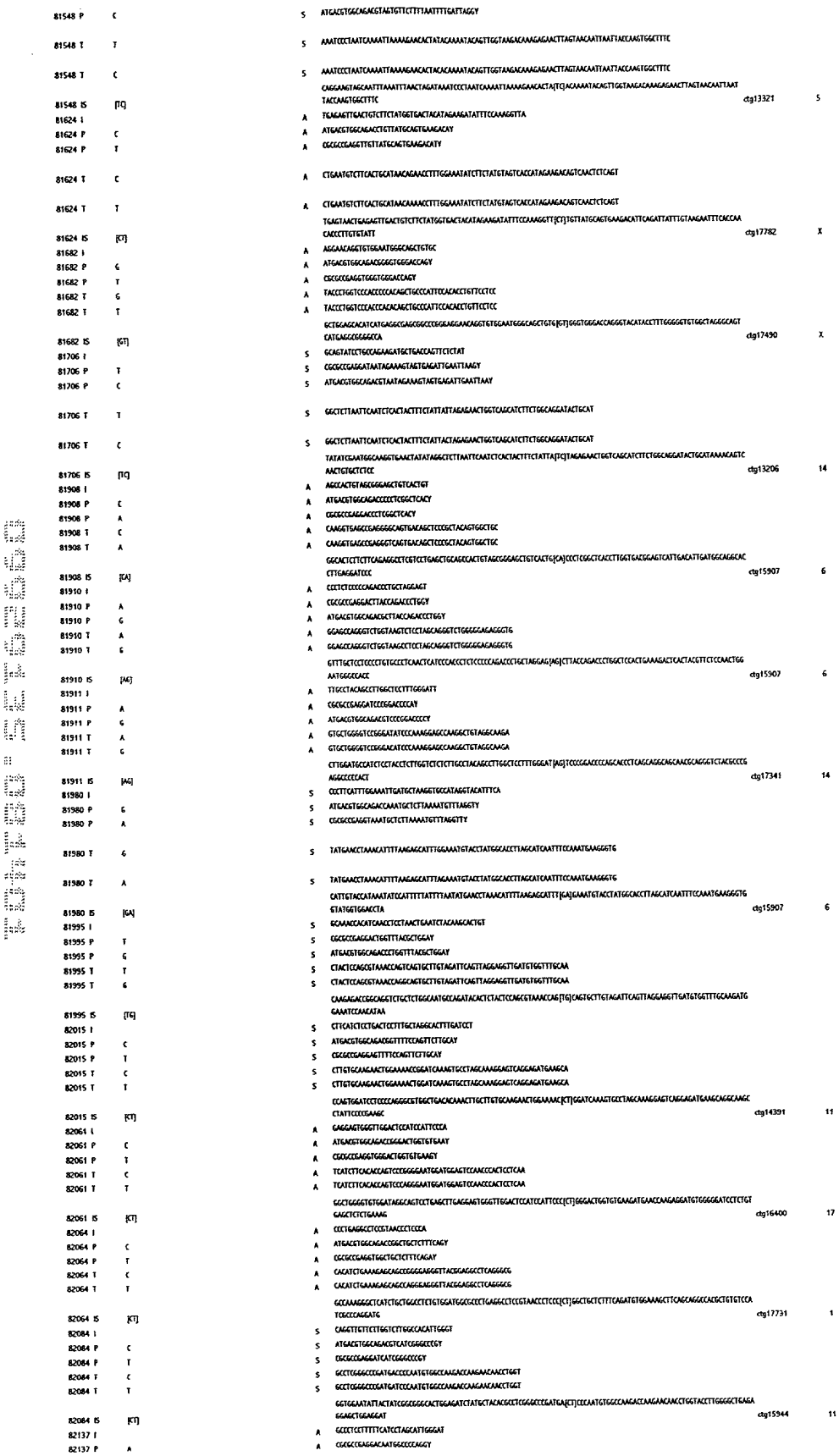
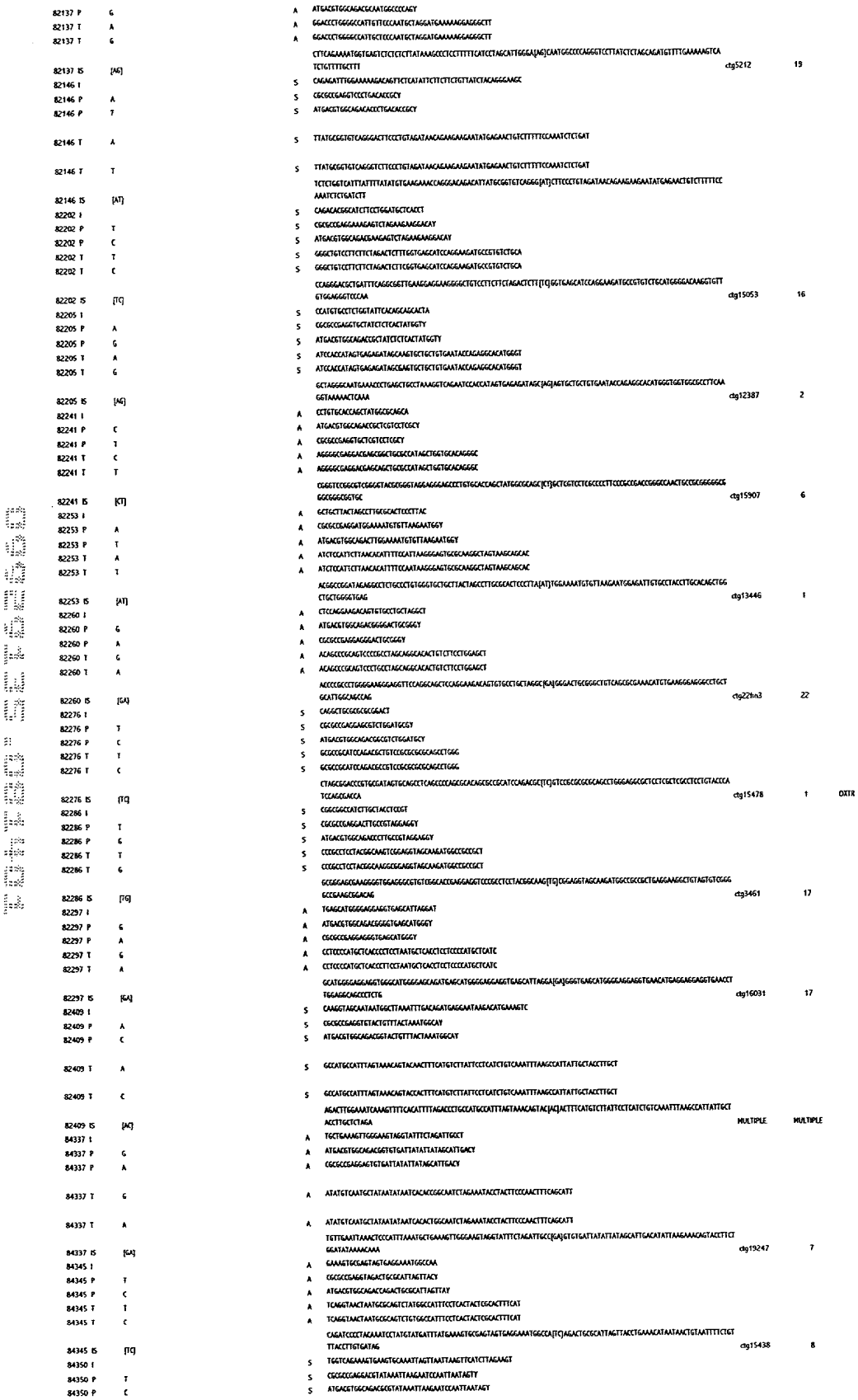

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81548 T T S AAATCCCTAATCAAAATTAAAAGAACACTATACAAAATACAGTTGGTAAGACAAAGAGAACTTAGTAACAATTAATTACCAAGTGGCTTTC
81548 T C S AAATCCCTAATCAAAATTAAAAGAACACTACACAAAATACAGTTGGTAAGACAAAGAGAACTTAGTAACAATTAATTACCAAGTGGCTTTC
81548 IS [TC] CAGGAAGTAGCAATTTAAATTTAACTAGATAAATCCCTAATCAAAATTAAAAGAACACTA[TC]ACAAAATACAGTTGGTAAGACAAAGAGAACTTAGTAACAATTAAT TACCAAGTGGCTTTC ctg13321 5
81624 I A TGAGAGTTGACTGTCTTCTATGGTGACTACATAGAAGATATTTCCAAAGGTTA
81624 P C A ATGACGTGGCAGACCTGTTATGCAGTGAAGACAY
81624 P T A CGCGCCGAGGTTGTTATGCAGTGAAGACATY
81624 T C A CTGAATGTCTTCACTGCATAACAGAACCTTTGGAAATATCTTCTATGTAGTCACCATAGAAGACAGTCAACTCTCAGT
81624 T T A CTGAATGTCTTCACTGCATAACAAAACCTTTGGAAATATCTTCTATGTAGTCACCATAGAAGACAGTCAACTCTCAGT
81624 IS [CT] TGAGTAACTGAGAGTTGACTGTCTTCTATGGTGACTACATAGAAGATATTTCCAAAGGTT[CT]TGTTATGCAGTGAAGACATTCAGATTATTTGTAAGAATTTCACCAA CACCTTGTGTATT ctg17782 X
81682 I A AGGAACAGGTGTGGAATGGGCAGCTGTGC
81682 P G A ATGACGTGGCAGACGGGGTGGGACCAGY
81682 P T A CGCGCCGAGGTGGGTGGGACCAGY
81682 T G A TACCCTGGTCCCACCCCCACAGCTGCCCATTCCACACCTGTTCCTCC
81682 T T A TACCCTGGTCCCACCCACACAGCTGCCCATTCCACACCTGTTCCTCC
81682 IS [GT] GCTGCAGCACATCATGAGGCGAGCGGCCCGGGAGGAACAGGTGTGCAATGGGCAGCTGTG[GT]GGGTGGGACCAGGGTACATACCTTTGGGGGTGTGGCTAGGGCAGT CATGAGGCGGGGGCCA ctg17490 X
81706 I S GCAGTATCCTGCCAGAAGATGCTGAACCAGTTCTCTAT
81706 P T S CGCGCCGAGGATAATAGAAAGTAGTGAGATTGAATTAAGY
81706 P C S ATGACGTGGCAGACGTAATAGAAAGTAGTGAGATTGAATTAAY
81706 T T S GGCTCTTAATTCAATCTCACTACTTTCTATTATTAGAGAACTGGTCAGCATCTTCTGGCAGGATACTGCAT
81706 T C S GGCTCTTAATTCAATCTCACTACTTTCTATTACTAGAGAACTGGTCAGCATCTTCTGGCAGGATACTGCAT
81706 IS [TC] TATATCGAATGGCAAGGTGAACTATATAGGCTCTTAATTCAATCTCACTACTTTCTATTA[TC]TAGAGAACTGGTCAGCATCTTCTGGCAGGATACTGCATAAAACAGTC AACTGTGCTCTCC ctg13206 14
81908 I A AGCCACTGTAGCGGGAGCTGTCACTGT
81908 P C A ATGACGTGGCAGACCCCTCGGCTCACY
81908 P A A CGCGCCGAGGACCCTCGGCTCACY
81908 T C A CAAGGTGAGCCGAGGGGCAGTGACAGCTCCCGCTACAGTGGCTGC
81908 T A A CAAGGTGAGCCGAGGGTCAGTGACAGCTCCCGCTACAGTGGCTGC
81908 IS [CA] GGCACTCTCTTCAGAGGCCTCGTCCTGAGCTGCAGCCACTGTAGCGGGAGCTGTCACTG[CA]CCCTCGGCTCACCTTGGTGACGGAGTCATTGACATTGATGGCAGGCAC CTTGAGGATCCC ctg15907 6
81910 I A CCCTCTCCCCCAGACCCTGCTAGGAGT
81910 P A A CGCGCCGAGGACTTACCAGACCCTGGY
81910 P G A ATGACGTGGCAGACGCTTACCAGACCCTGGY
81910 T A A GGAGCCAGGGTCTGGTAAGTCTCCTAGCAGGGTCTGGGGGAGAGGGTG
81910 T G A GGAGCCAGGGTCTGGTAAGCCTCCTAGCAGGGTCTGGGGGAGAGGGTG
81910 IS [AG] GTTTGCTCCTCCCCTGTGCCCTCAACTCATCCCACCCTCTCCCCCAGACCCTGCTAGGAG[AG]CTTACCAGACCCTGGCTCCACTGAAAGACTCACTACGTTCTCCAACTGG AATGGGCCACC ctg15907 6
81911 I A TTGCCTACAGCCTTGGCTCCTTTGGGATT
81911 P A A CGCGCCGAGGATCCCGGACCCCAY
81911 P G A ATGACGTGGCAGACGTCCCGGACCCCY
81911 T A A GTGCTGGGGTCCGGGATATCCCAAAGGAGCCAAGGCTGTAGGCAAGA
81911 T G A GTGCTGGGGTCCGGGACATCCCAAAGGAGCCAAGGCTGTAGGCAAGA
81911 IS [AG] CTTGGATGCCATCTCCTACCTCTTGGTCTCTCTTGCCTACAGCCTTGGCTCCTTTGGGAT[AG]TCCCGGACCCCAGCACCCTCAGCAGGCAGCAACGCAGGGTCTACBCCCG AGGCCCCTACT ctg17341 14
81980 I S CCCTTCATTTGGAAATTGATGCTAAGGTGCCATAGGTACATTTCA
81980 P G S ATGACGTGGCAGACCAAATGCTCTTAAAATGTTTAGGTY
81980 P A S CGCGCCGAGGTAAATGCTCTTAAAATGTTTAGGTTY
81980 T G S TATGAACCTAAACATTTTAAGAGCATTTGGAAATGTACCTATGGCACCTTAGCATCAATTTCCAAATGAAGGGTG
81980 T A S TATGAACCTAAACATTTTAAGAGCATTTAGAAATGTACCTATGGCACCTTAGCATCAATTTCCAAATGAAGGGTG
81980 IS [GA] CATTGTACCATAAATATCCATTTTTTATTTTATATATGAACCTAAACATTTTAAGAGCATTT[GA]GAAATGTACCTATGGCACCTTAGCATCAATTTCCAAATGAAGGGTG GTATGGTGGAACTA ctg15907 6
81995 I S GCAAACCACATCAACCTCCTAACTGAATCTACAAGCACTGT
81995 P T S CGCGCCGAGGACTGGTTTACGCTGGAY
81995 P G S ATGACGTGGCAGACCCTGGTTTACGCTGGAY
81995 T T S CTACTCCAGCGTAAACCAGTCAGTGCTTGTAGATTCAGTTAGGAGGTTGATGTGGTTTGCAA
81995 T G S CTACTCCAGCGTAAACCAGGCAGTGCTTGTAGATTCAGTTAGGAGGTTGATGTGGTTTGCAA
81995 IS [TG] CAAGAGACCGGCAGGTCTGCTCTGGCAATGCCAGATACACTCTACTCCAGCGTAAACCAG[TG]CAGTGCTTGTAGATTCAGTTAGGAGGTTGATGTGGTTTGCAAGATG GAAATCCAACATAA
82015 I S CTTCATCTCCTGACTCCTTTGCTAGGCACTTTGATCCT
82015 P C S ATGACGTGGCAGACGGTTTTCCAGTTCTTGCAY
82015 P T S CGCGCCGAGGAGTTTTCCAGTTCTTGCAY
82015 T C S CTTGTGCAAGAACTGGAAAACCGGATCAAAGTGCCTAGCAAAGGAGTCAGGAGATGAAGCA
82015 T T S CTTGTGCAAGAACTGGAAAACTGGATCAAAGTGCCTAGCAAAGGAGTCAGGAGATGAAGCA
82015 IS [CT] CCAGTGGATCCTCCCCAGGGCGTGGCTGACACAAACTTGCTTGTGCAAGAACTGGAAAAC[CT]GGATCAAAGTGCCTAGCAAAGGAGTCAGGAGATGAAGCAGGCAAGC CTATTCCCCGAAGC ctg14391 11
82061 I A GAGGAGTGGGTTGGACTCCATCCATTCCCA
82061 P C A ATGACGTGGCAGACCGGGACTGGTGTGAAT
82061 P T A CGCGCCGAGGTGGGACTGGTGTGAAGY
82061 T C A TCATCTTCACACCAGTCCCGGGGAATGGAGTCCAACCCACTCCTCAA
82061 T T A TCATCTTCACACCAGTCCCAGGGAATGGAGTCCAACCCACTCCTCAA
82061 IS [CT] GGCTGGGGTGTGGATAGGCAGTCCTGAGCTTGAGGAGTGGGTTGGACTCCATCCATTCCC[CT]GGGACTGGTGTGAAGATGAACCAAGAGGATGTGGGGGATCCTCTGT GAGCTCTCTGAAAG ctg16400 17
82064 I A CCCTGAGGCCTCCGTAACCCTCCCA
82064 P C A ATGACGTGGCAGACCGGCTGCTCTTTCAGY
82064 P T A CGCGCCGAGGTGGCTGCTCTTTCAGAY
82064 T C A CACATCTGAAAGAGCAGCCGGGGAGGGTTACGGAGGCCTCAGGGCG
82064 T T A CACATCTGAAAGAGCAGCCAGGGAGGGTTACGGAGGCCTCAGGGCG
82064 IS [CT] GCCAAAGGGCTCATCTGCTGGCCTCTGTGGATGGCGCCCTGAGGCCTCCGTAACCCTCCC[CT]GGCTGCTCTTTCAGATGTGGAAAGCTTCAGCAGGCCACGCTGTGTCCA TCGCCCAGGATG ctg17731 1
82084 I S CAGGTTGTTCCTGGTCTTGGCCACATTGGGT
82084 P C S ATGACGTGGCAGACGTCATCGGGCCCGY
82084 P T S CGCGCCGAGGATCATCGGGCCCGY
82084 T C S GCCTGGGCCCGATGACCCCAATGTGGCCAAGACCAAGAACAACCTGGT
82084 T T S GCCTGGGCCCGATGATCCCAATGTGGCCAAGACCAAGAACAACCTGGT
82084 IS [CT] GGTGGAATATTACTATCGGCGGGCACTGGAGATCTATGCTACACGCCTCGGGCCCGATGA[CT]CCCAATGTGGCCAAGACCAAGAACAACCTGGTACCTTGGGGCTGAGA GGAGCTGGAGGAT ctg15944 11
82137 I A GCCCTCCTTTTTCATCCTAGCATTGGGAT
82137 P A A CGAGCCGAGGACAATGGCCCCAGGY

FIGURE 129C


82137 P G A ATGACGTGGCAGACGCAATGGCCCCAGY
82137 T A A GGACCCTGGGGCCATTGTTCCCAATGCTAGGATGAAAAAGGAGGGCTT
82137 T G A GGACCCTGGGGCCATTGCTCCCAATGCTAGGATGAAAAAGGAGGGCTT
82137 IS [AG] CTTCAGAAAATGGTGAGTCTCTCTCTTATAAAGCCTCCTTTTTCATCCTAGCATTGGGA[AG]CAATGGCCCCAGGGTCCTTATCTCTAGCAGATGTTTTGAAAAGTCA TCTGTTTTGCTTT ctg5212 19
82146 I S CAGAGATTTGGAAAAAGACAGTTCTCATATTCTTCTCTGTTATCTACAGGGAAGC
82146 P A S CGCGCCGAGGTCCCTGACACCGCY
82146 P T S ATGACGTGGCAGACACCCTGACACCGCY
82146 T A S TTATGCGGTGTCAGGGACTTCCCTGTAGATAACAGAAGAAGAATATGAGAACTGTCTTTTTCCAAATCTCTGAT
82146 T T S TTATGCGGTGTCAGGGTCTTCCCTGTAGATAACAGAAGAAGAATATGAGAACTGTCTTTTTCCAAATCTCTGAT
82146 IS [AT] TCTCTGGTCATTTATTTTATATGTGAAGAAACCAGGGACAGACATTATGCGGTGTCAGGG[AT]CTTCCCTGTAGATAACAGAAGAAGAATATGAGAACTGTCTTTTTCC AAATCTCTGATCTT
82202 I S CAGACACGGCATCTCCTGGATGCTCACCT
82202 P T S CGGCCGAGGAAAAGAGTCTAGAAGAAGGACAY
82202 P C S ATGACGTGGCAGACGAAGAGTCTAGAAGAAGGACAY
82202 T T S GGGCTGTCCTTCTTCTAGACTCTTTGGTGAGCATCCAGGAAGATGCCGTGTCTGCA
82202 T C S GGGCTGTCCTTCTTCTAGACTCTCGGTGAGCATCCAGGAAGATGCCGTGTCTGCA
82202 IS [TC] CCAGGGACGCTGATTTCAGGCGGTTGAAGGAGGAAGGGGCTGTCCTTCTTCTAGACTCTT[TC]GGTGAGCATCCAGGAAGATGCCGTGTCTGCATGGGGACAAGGTGTT GTGGAGGGTCCCAA ctg15053 16
82205 I S CCATGTGCCTCTGGTATTCACAGCAGCACTA
82205 P A S CGCGCCGAGGTGCTATCTCTCACTATGGTY
82205 P G S ATGACGTGGCAGACGCTATCTCTCACTATGGTY
82205 T A S ATCCACCATAGTGAGAGATAGCAAGTGCTGCTGTGAATACCAGAGGCACATGGGT
82205 T G S ATCCACCATAGTGAGAGATAGCGAGTGCTGCTGTGAATACCAGAGGCACATGGGT
82205 IS [AG] GCTAGGGCAATGAAACCCTGAGCTGCCTAAAGGTCAGAATCCACCATAGTGAGAGATAGC[AG]AGTGCTGCTGTGAATACCAGAGGCACATGGGTGGTGGCGCCTTCAA GGTAAAAACTCAAA ctg12387 2
82241 I A CCTGTGCACCAGCTATGGCGCAGCA
82241 P C A ATGACGTGGCAGACGCTCGTCCTCGCY
82241 P T A CGCGCCGAGGTGCTCGTCCTCGCY
82241 T C A AGGGGCGAGGACGAGCGGCTGCGCCATAGCTGGTGCACAGGGC
82241 T T A AGGGGCGAGGACGAGCAGCTGCGCCATAGCTGGTGCACAGGGC
82241 IS [CT] CGGGTCCGGCGTCGGGCTACGCGGGTAGGAGGGAGCCCTGTGCACCAGCTATGGCGCAGC[CT]GCTCGTCCTCCCCCTTCCCGCCGACCGGGCCAACTGCCGCGGGGGCG GGCGGGCGGTGC ctg15907 6
82253 I A GCTGCTTACTAGCCTTGCGCACTCCCTTAC
82253 P A A CGCGCCGAGGATGGAAAATGTGTTAAGAATGGY
82253 P T A ATGACGTGGCAGACTTGGAAAATGTGTTAAGAATGGY
82253 T A A ATCTCCATTCTTAACACATTTTCCATTAAGGGAGTGCGCAAGGCTAGTAAGCAGCAC
82253 T T A ATCTCCATTCTTAACACATTTTCCAATAAGGGAGTGCGCAAGGCTAGTAAGCAGCAC
82253 IS [AT] ACGGCCGGATAGAGGCCTCTGCCCTGTGGGTGCTGCTTACTAGCCTTGCGCACTCCCTTA[AT]TGGAAAATGTGTTAAGAATGGAGATTGTGCCTACCTTGCACAGCTGG CTGCTGGGGTGAG ctg13446 1
82260 I A CTCCAGGAAGACAGTGTGCCTGCTAGGCT
82260 P G A ATGACGTGGCAGACGGGGACTGCGGGY
82260 P A A CGCGCCGAGGACGGGACTGCGGGY
82260 T G A ACAGCCCGCAGTCCCCGCCTAGCAGGCACACTGTCTTCCTGGAGCT
82260 T A A ACAGCCCGCAGTCCCTGCCTAGCAGGCACACTGTCTTCCTGGAGCT
82260 IS [GA] ACCCCGCCTGGGGAAGGGAGTTCCAGGCAGCTCCAGGAAGACAGTGTGCCTGCTAGGC[GA]GGGACTGCGGGCTGTCAGCGCGAAACATGTGAAGGGAGGGCCTGCT GCATTGGCAGCCAG ctg22hn3 22
82276 I S CAGGCTGCGCGCGCGGACT
82276 P T S CGCGCCGAGGAGCGTCTGGATGCGY
82276 P C S ATGACGTGGCAGACGGCGTCTGGATGCY
82276 T T S GCGCCGCATCCAGACGCCGTCCGCGCGCGCAGCCTGGG
82276 T C S GCGCCGCATCCAGACGCCGTCCGCGCGCGCAGCCTGGG
82276 IS [TC] CTAGCGCACCCGTGGCATAGTGCAGCCTCAGCCCCAGCGCACAGCGCCGCATCCAGACGC[TC]GTCCGCGCGCGCAGCCTGGGAGGCGCTCCTCGCTCGCCTCCTGTACCCA TCCAGCGACCA ctg15478 1 OXTR
82286 I S CGGCCGCCATCTTGCTACCTCCGT
82286 P T S CGGCCCGAGGACTTGCCGTAGGAGAGY
82286 P G S ATGACGTGGCAGACCCTTGCCGTAGGAGGY
82286 T T S CCCGCCTCCTACGGCAAGTCGGAGGTAGCAAGATGGCCGCCGCT
82286 T G S CCCGCCTCCTACGGCAAGCCGGAGGTAGCAAGATGGCCGCCGCT
82286 IS [TG] GCGGGAGGCAAGGGGTGGAGGGCGTGTCGGCACCGAGGAGGTCCCGCCTCCTACGGCAAG[TG]CGGAGGTAGCAAGATGGCCGCCGCTGAGGAAGGCTGTAGTGTCGGG GCCGAAGCGGACAG ctg3461 17
82297 I A TGAGCATGGGGAGGAGGTGAGCATTAGGAT
82297 P G A ATGACGTGGCAGACGGGGTGAGCATGGGY
82297 P A A CGCGCCGAGGAGGGTGAGCATGGGY
82297 T G A CCTCCCCATGCTCACCCCTCCTAATGCTCACCTCCTCCCCATGCTCATC
82297 T A A CCTCCCCATGCTCACCCTTCCTAATGCTCACCTCCTCCCCATGCTCATC
82297 IS [GA] GCATGGGGAGGAGGTGGGCATGGGGAGCAGATGAGCATGGGGAGGAGGTGAGCATTAGGA[GA]GGGTGAGCATGGGGAGGAGGTGAACATGAGGAGGAGGTGAACCT TGGAGGCAGCCCTCTG ctg16031 17
82409 I S CAAGGTAGCAATAATGGCTTAAATTTGACAGATGAGGAATAAGACATGAAAGTC
82409 P A S CGCGCCGAGGTGTACTGTTTACTAAATGGCAY
82409 P C S ATGACGTGGCAGACGGTACTGTTTACTAAATGGCAY
82409 T A S GCCATGCCATTTAGTAAACAGTACAACTTTCATGTCTTATTCCTCATCTGTCAAATTTAAGCCATTATTGCTACCTTGCT
82409 T C S GCCATGCCATTTAGTAAACAGTACCACTTTCATGTCTTATTCCTCATCTGTCAAATTTAAGCCATTATTGCTACCTTGCT
82409 IS [AC] AGACTTGGAAATCAAAGTTTTCAGCATTTTAGACCCTGCCATGCCATTTAGTAAACAGTAC[AC]ACTTTCATGTCTTATTCCTCATCTGTCAAATTTAAGCCATTATTGCT ACCTTGCTCTAGA MULTIPLE MULTIPLE
84337 I A TGCTGAAAGTTGGGAAGTAGGTATTTCTAGATTGGCT
84337 P G A ATGACGTGGCAGACGGTGTGATTATATTATAGCATTGACY
84337 P A A CGCGCCGAGGAGTGTGATTATATTATAGCATTGACY
84337 T G A ATATGTCAATGCTATAATATAATCACACCGGCAATCTAGAAATACCTACTTCCCAACTTTCAGCATT
84337 T A A ATATGTCAATGCTATAATATAATCACACTGGCAATCTAGAAATACCTACTTCCCAACTTTCAGCATT
84337 IS [GA] TGTTGAATTAAACTCCCATTTAAATGCTGAAAGTTGGGAAGTAGGTATTTCTAGATTGCC[GA]GTGTGATTATATTATAGCATTGACATATTAAGAAACAGTACCTTCT GGATATAAAACAAA ctg19247 7
84345 I A GAAAGTGCGAGTAGTGAGCAAATGGCCAA
84345 P T A CGCGCCGAGGTAGACTGCGCATTAGTTACY
84345 P C A ATGACGTGGCAGACCAGACTGCGCATTAGTTAY
84345 T T A TCAGGTAACTAATGCGCAGTCTATGGCCATTTCCTCACTACTCGCACTTTCAT
84345 T C A TCAGGTAACTAATGCGCAGTCTGTGGCCATTTCCTCACTACTCGCACTTTCAT
84345 IS [TC] CAGATCCCCTACAAATCCTATGTATGATTTATGAAAGTGCGAGTAGTGAGGAAATGGCCA[TC]AGACTGCGCATTAGTTACCTGAAACATAATAACTGTAATTTTCTGT TTACCTTGTGATAG ctg15438 8
84350 I S TGGTCAGAAAGTGAAGTGCAAATTAGTTAATTAAGTTCATCTTAGAAGT
84350 P T S CGCGCCGAGGACGTATAAATTAAGAATCCAATTAATAGTY
84350 P C S ATGACGTGGCAGACGCGTATAAATTAAGAATCCAATTAATAGY

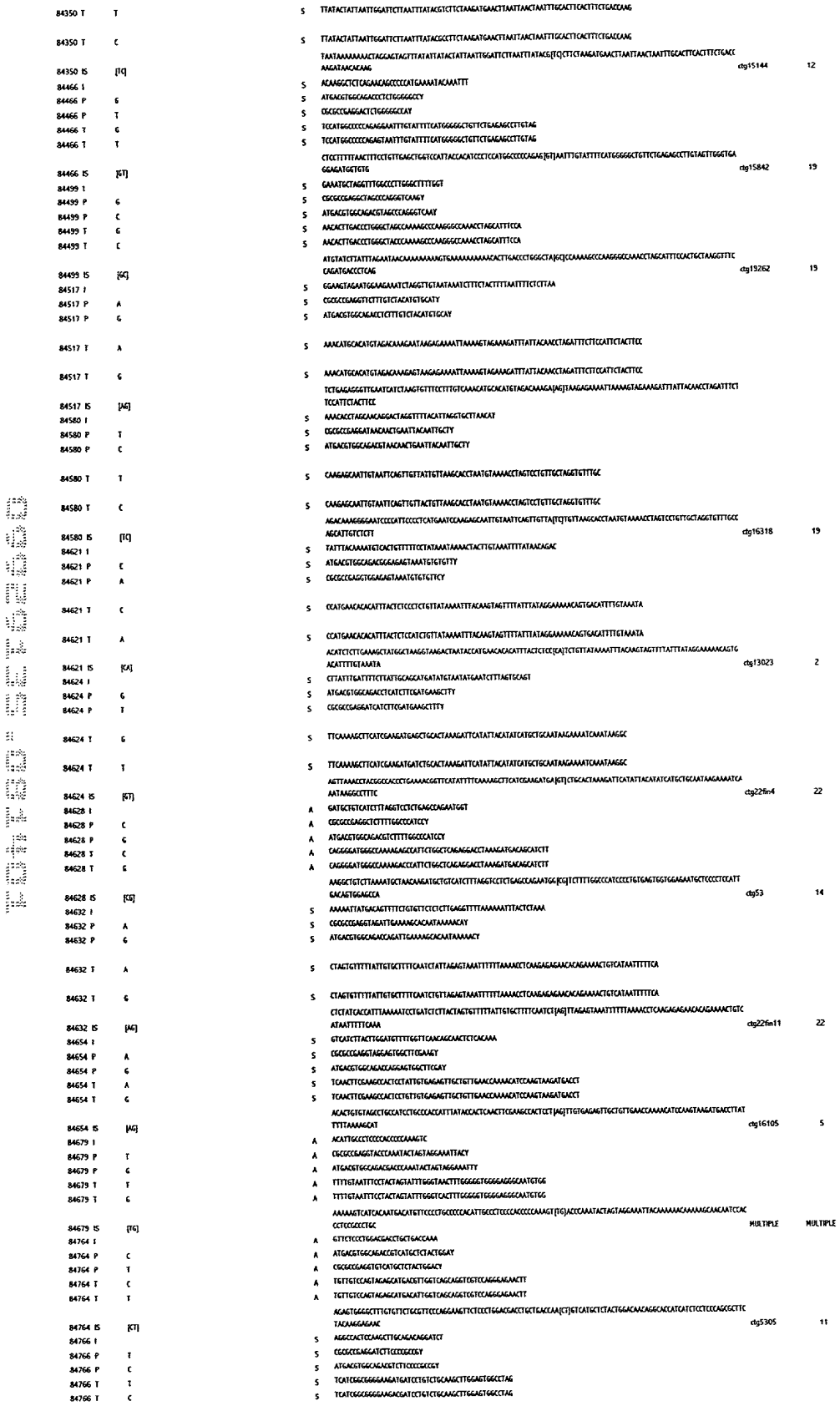


FIGURE 129C

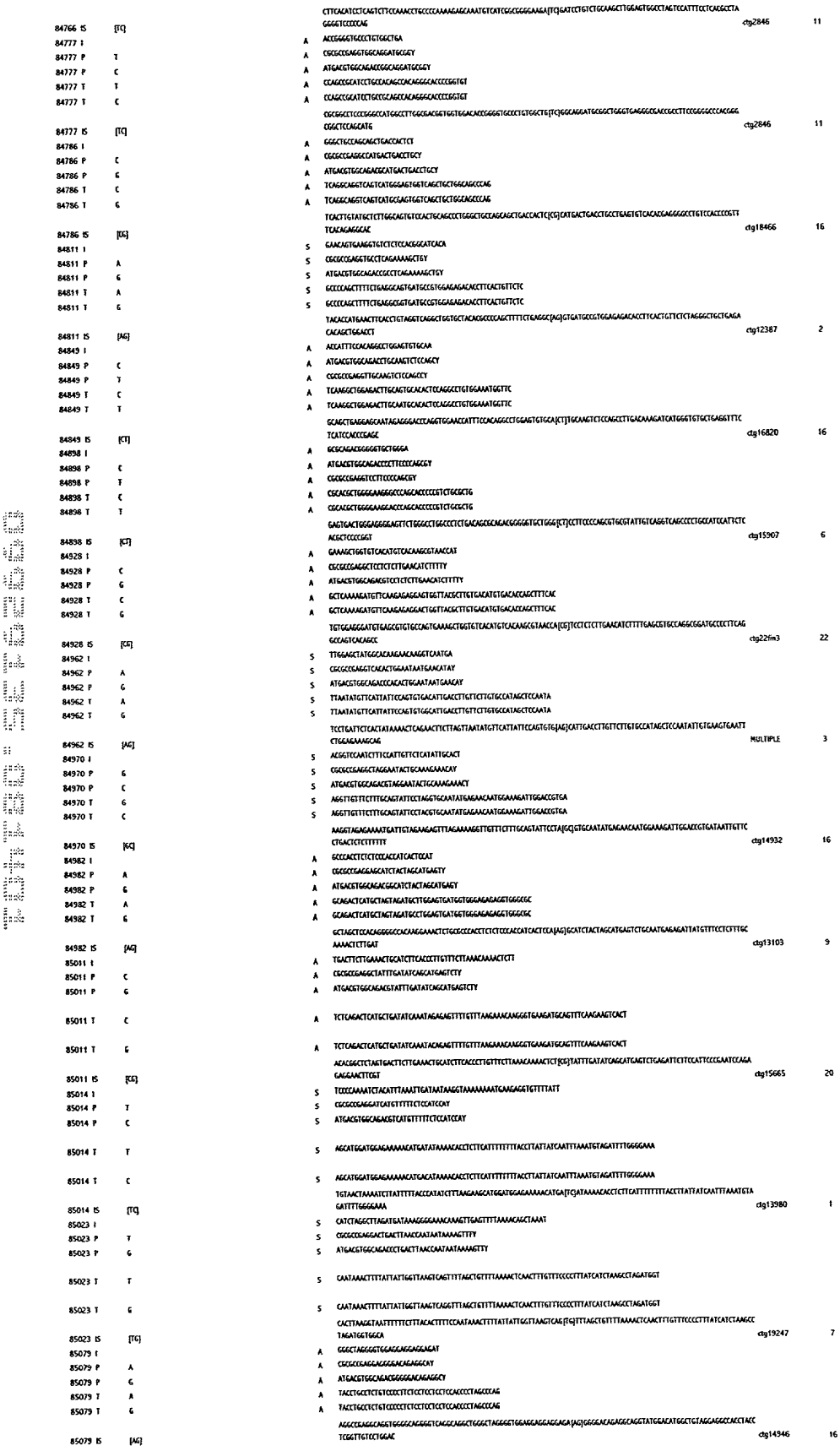


FIGURE 129C

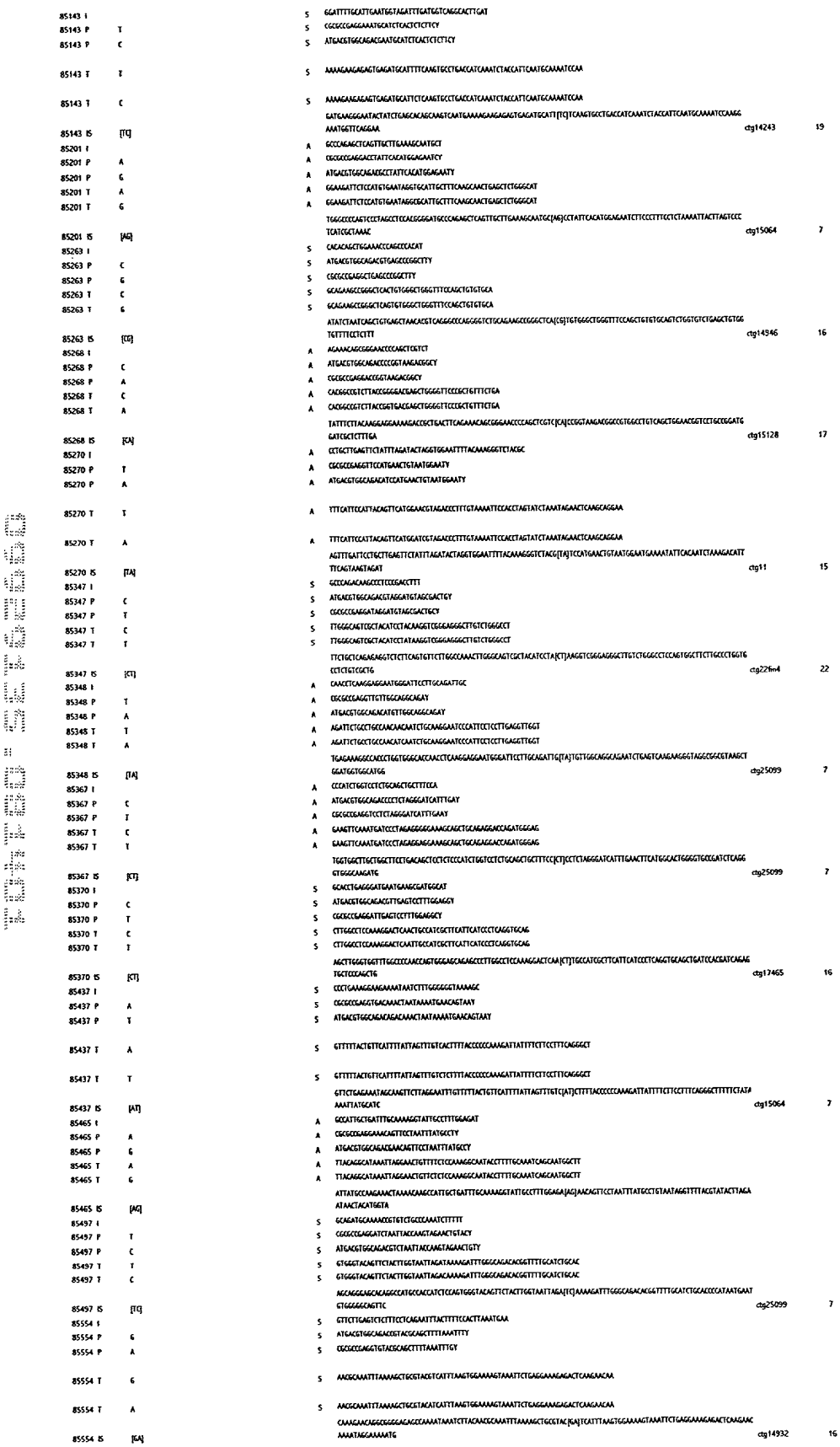

85143 I S GGATTTTGCATTGAATGGTAGATTTGATGGTCAGGCACTTGAT
85143 P T S CGCGCCCGAGGAAATGCATCTCACTCTCTTCY
85143 P C S ATGACGTGGCAGACGAATGCATCTCACTCTCTTCY
85143 T T S AAAAGAAGAGAGTGAGATGCATTTTCAAGTGCCTGACCATCAAATCTACCATTCAATGCAAAATCCAA
85143 T C S AAAAGAAGAGAGTGAGATGCATTCTCAAGTGCCTGACCATCAAATCTACCATTCAATGCAAAATCCAAG
85143 IS [TC] GATGAAGGGAATACTATCTCAGCACAGCCAAGTCAATGAAAAGAAGAGAGTGACATGCATT[TC]TCAAGTGCCTGACCATCAAATCTACCATTCAATGCAAAATCCAAGG AAATGGTTCAGGAA ctg14243 19
85201 I A GCCCAGAGCTCAGTTGCTTGAAAGCAATGCT
85201 P A A CGCGCCGAGGACCTATTCACATGGAGAAATCY
85201 P G A ATGACGTGGCAGAGGCCTATTCACATGGAGAAATY
85201 T A A GGAAGATTCTCCATGTGAATAGGTGCATTGCTTTCAAGCAACTGAGCTCTGGGCAT
85201 T G A GGAAGATTCTCCATGTGAATAGGGGCATTGCTTTCAAGCAACTGAGCTCTGGGCAT
85201 IS [AG] TGGCCCCCAGTCCCTCAGCCTCCACAGGGGATGCCCAGAGCTCAGTTGCTTGAAAGCAATGC[AG]CCTATTCACATGGAGAATCTTCCCTTTCCTCTAAAATTACTTAGTCCC TCATCGCTAAAC ctg15064 7
85263 I S CACACAGCTGGAAACCCAGCCCACAT
85263 P C S ATGACGTGGCAGACGTGAGCCCGGCTTY
85263 P G S CGCGCCGAGGCTGAGCCCGGCTTY
85263 T C S GCAGAAGCCGGGCTCACTGTGGGCTGGGTTTCCAGCTGTGTGCA
85263 T G S GCAGAAGCCGGGCTCAGTGTGGGCTGGGTTYCCAGCTGTGTGCA
85263 IS [CG] ATATCTAATCAGCTGTGAGCTAAACACGTCAGGGCCCAGGGGTCTGCAGAAGCCGGGCTCA[CG]TGTGGGCTGGGTTTCCAGCTGTGTGCAGTCTGGTGTCTGAGCTGTGG TGTTTTCCTCTTT ctg14546 16
85268 I A AGAAACAGCGGGAAACCCCAGCTCGTCT
85268 P C A ATGACGTGGCAGAACCCGGTAAGACGGCY
85268 P A A CGCGCCGAGGACCGGTAAGACGGCY
85268 T C A CACGGCCGTCTTACCGGGGACGAGCTGGGGTTCCCGCTGTTCTGA
85268 T A A CACGGCCGTCTTACCGGTGACGAGCTGGGGTTCCCGCTGTTCTGA
85268 IS [CA] TATTTCTTACAAGGAGGAAAAGACCGCTGACTTCAGAAACAGCGGGAACCCCAGCTCGTC[CA]CCGGTAAGACGGCCGTGGCCTGTCAGCTGGAACGGTCCTGCCGGATG GATCGCTCTTTGA ctg15128 17
85270 I A CCTGCTTGAGTTCTATTTAGATACTAGGTGGAATTTTACAAAGGGTCTACGC
85270 P T A CGCGCCGAGGTTCCATGAACTGTAATGGAATY
85270 P A A ATGACGTGGCAGACATCCATGAACTGTAATGGAATY
85270 T T A TTTCATTCCATTACAGTTCATGGAACGTAGACCCTTTGTAAAATTCCACCTAGTATCTAAATAGAACTCAAGCAGGAA
85270 T A A TTTCATTCCATTACAGTTCATGGATCGTAGACCCTTTGTAAAATTCCACCTAGTATCTAAATAGAACTCAAGCAGGAA
85270 IS [TA] AGTTTGATTCCTGCTTGAGTTCTATTTAGATACTAGGTGGAATTTTACAAAGGGTCTACG[TA]TCCATGAACTGTAATGGAATGAAAATATTCACAATCTAAAGACATT TTCAGTAAGTAGAT ctg11 15
85347 I S GCCCAGACAAGCCCTCCCGACCTTT
85347 P C S ATGACGTGGCAGACGTAGGATGTAGCGACTGY
85347 P T S CGCGCCGAAGGATAGGATGTAGCGACTGCY
85347 T C S TTGGGCAGTCGCTACATCCTACAAGGTCGGGAGGGCTTGTCTGGGCCT
85347 T T S TTGGGCAGTCGCTACATCCTATAAGGTCGGGAGGGCTTGTCTGGGCCT
85347 IS [CT] TTCTGCTCAGAGAAGGTCTCTTCAGTGTTCTTGGCCAAACTTGGGCAGTCGCTACATCCTA[CT]AAGGTCGGGAGGGCTTGTCTGGGCCTCCAGTGGCTTCTTGCCCTGGTG CCTCTGTCGCTG ctg22fm4 22
85348 I A CAACCTCAAGGAGGAATGGGATTCCTTGCAGATTGC
85348 P T A CGCGCCGAGGTTGTTGGCAGGCAGAY
85348 P A A ATGACGTGGCAGACATGTTGGCAGGCAGAY
85348 T T A AGATTCTGCCTGCCAACAACAATCTGCAAGGAATCCCATTCCTCCTTGAGGTTGGT
85348 T A A AGATTCTGCCTGCCAACATCAATCTGCAAGGAATCCCATTCCTCCTTGAGGTTGGT
85348 IS [TA] TGAGAAGGCCACCCTGGTGGGCACCAACCTCAAGGAGGAATGGGATTCCTTGCAGATTG[TA]TGTTGGCAGGCAGAATCTGAGTCAAGAAGGGTAGGCGGCGTAAGCT GGATGGTGGCATGG ctg25099 7
85367 I A CCCATCTGGTCCTCTGCAGCTGCTTTCCA
85367 P C A ATGACGTGGCAGACCCCTCTAGGGATCATTTGAY
85367 P T A CGCGCCGAGGTCCTCTAGGGATCATTTGAAY
85367 T C A GAAGTTCAAATGATCCCTAGAGGGGCAAAGCAGCTGCAGAGGACCAGATGGGAG
85367 T T A GAAGTTCAAATGATCCCTAGAGGAGCAAAGCAGCTGCAGAGGACCAGATGGGAG
85367 IS [CT] TGGTGGCTTGCTGGCTTCCTGACAGCTCCTCTCCCATCTGGTCCTCTGCAGCTGCTTTCC[CT]CCTCTAGGGATCATTTGAACTTCATGGCACTGGGGTGCCGATCTCAGG GTGGGCAAGATG ctg25099 7
85370 I S GCACCTGAGGGATGAATGAAGCGATGGCAT
85370 P C S ATGACGTGGCAGACGTTGAGTCCTTTGGAGGY
85370 P T S CGCGCCGAGGATTGAGTCCTTTGGAGGCY
85370 T C S CTTGGGCTCCAAAGGACTCAACTGCCATCGCTTCATTCATCCCTCAGGTGCAG
85370 T T S CTTGGGCTCCAAAGGACTCAATTGCCATCGCTTCATTCATCCCTCAGGTGCAG
85370 IS [CT] AGCTTGGGTGGTTTGGCCCCAACCAGTGGGAGCAGAGCCTTGGCCTCCAAAGGACTCAA[CT]TGCCATCGCTTCATTCATCCCTCAGGTGCAGCTGATCCACGATCAGAG TGCTCCCAGCTG ctg17465 16
85437 I S CCCTGAAAGGAAGAAAATAATCTTTGGGGGGTAAAAGC
85437 P A S CGCGCCGAGGTGAACAACTAATAAAATGAACAGTAAY
85437 P T S ATGACGTGGCAGACAGACAAACTAATAAAATGAACAGTAAY
85437 T A S GTTTTTACTGTTCATTTTATTAGTTTGTCACTTTTACCCCCCAAAGATTATTTTCTTCCTTTCAGGGCT
85437 T T S GTTTTTACTGTTCATTTTATTAGTTTGTCTCTTTTACCCCCCAAAGATTATTTTCTTCCTTTCAGGGCT
85437 IS [AT] GTTCTGAAGAAATAGCAAGTTCTTAAGAAATTTGTTTTTACTGTTCATTTTATTAGTTTGT[AT]CTTTTACCCCCCAAAGATTATTTTCTTCCTTTCAGGGCTTTTTCTATA AAATTATGCATC ctg15064 7
85465 I A GCCATTGCTGATTTGCAAAAGGTATTGCCTTTGGAGAT
85465 P A A CGCGCCGAGGAAACAGTTCCTAATTTATGCCTY
85465 P G A ATGACGTGGCAGACGAACAGTTCCTAATTTATGCCY
85465 T A A TTACAGGCATAAATTAGGAACTGTTTCTCCAAAGGCAATACCTTTTGCAAATCAGCAATGGCTT
85465 T G A TTACAGGCATAAATTAGGAACTGTTCTCTCCAAAGGCAATACCTTTTGCAAATCAGCAATGGCTT
85465 IS [AG] ATTATGCCAAGAAACTAAAACAAGCCATTGCTGATTTGCAAAAGGTATTGCCTTTGGAGA[AG]AACAGTTCCTAATTTATGCCTGTAATAGGTTTTACGTATACTTAGA ATAACTACATGGTA
85497 I S GCAGATGCAAAACCGTGTCTGCCCAAATCTTTTT
85497 P T S CGCGCCGAGGATCTAATTACCAAGTAGAACTGTACY
85497 P C S ATGACGTGGCAGACGTCTAATTACCAAGTAGAACTGTY
85497 T T S GTGGGTACAGTTCTACTTGGTAATTAGATAAAAGATTTGGGCAGACACGGTTTTGCATCTGCAC
85497 T C S GTGGGTACAGTTCTACTTGGTAATTAGACAAAAGATTTGGGCAGACACGGTTTTGCATCTGCAC
85497 IS [TC] AGCAGGGAGCAGAGGCCATGCCACCATCTCCAGTGGGTACAGTTCTACTTGGTAATTAGA[TC]AAAAGATTTGGGCAGACACGGTTTTGCATCTGCACCCCATAATGAAT GTGGGGGCAGTTC ctg25099 7
85554 I S GTTCTTGAGTCTCTTTCCTCAGAATTTACTTTTCCACTTAAATCAA
85554 P G S ATGACGTGGCAGACGGTACGCAGCTTTTAAATTTY
85554 P A S CGCGCCGAGGTGTACGCAGCTTTTAAATTTGY
85554 T G S AACGCAAATTTAAAAGCTGCGTACGTCATTTAAGTGGAAAAGTAAATTCTGAGGAAAGAGACTCAAGAACAA
85554 T A S AACGCAAATTTAAAAGCTGCGTACATCATTTAAGTGGAAAAGTAAATTCTGAGGAAAGAGACTCAAGAACAA
85554 IS [GA] CAAAGAACAGCGGGGGAGAGCCAAAATAAATCTTACAAGCGAAATTTAAAAGCTGCGTAC[GA]TCATTTAAGTGGAAAAGTAAATTCTGAGGAAAGAGACTCAAGAAC AAAATAGCAAAAATG ctg14932 16

FIGURE 129C

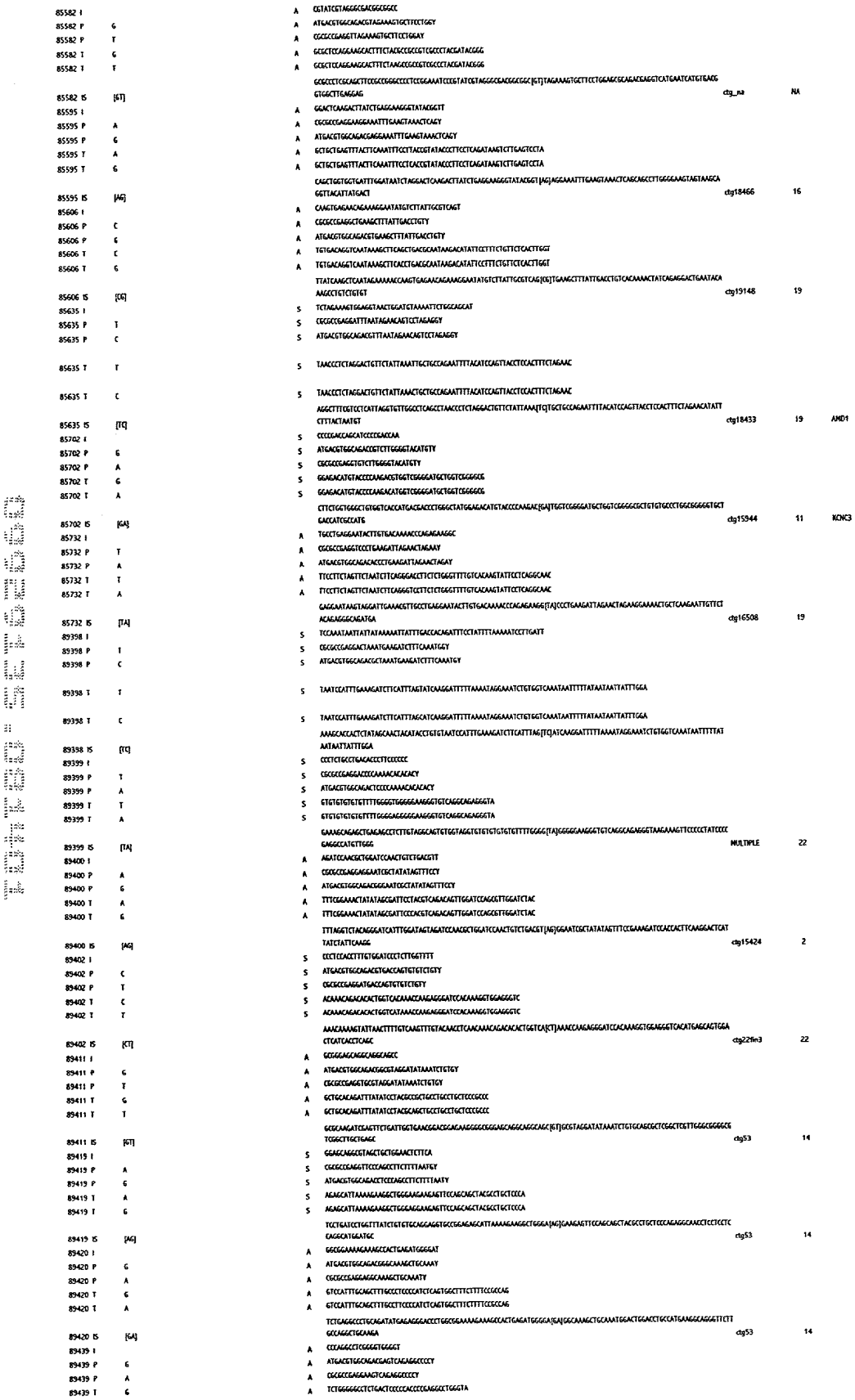
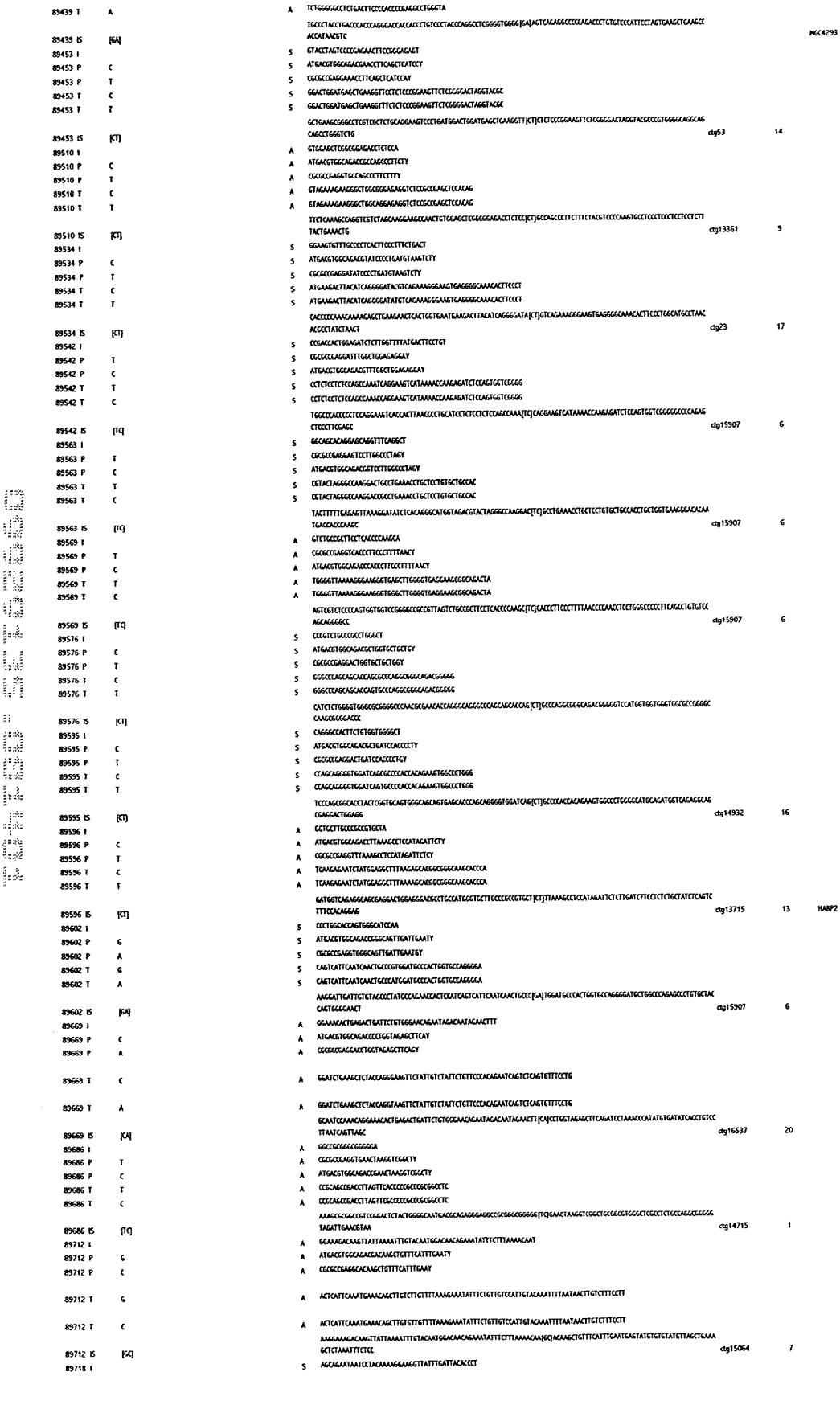


FIGURE 129C



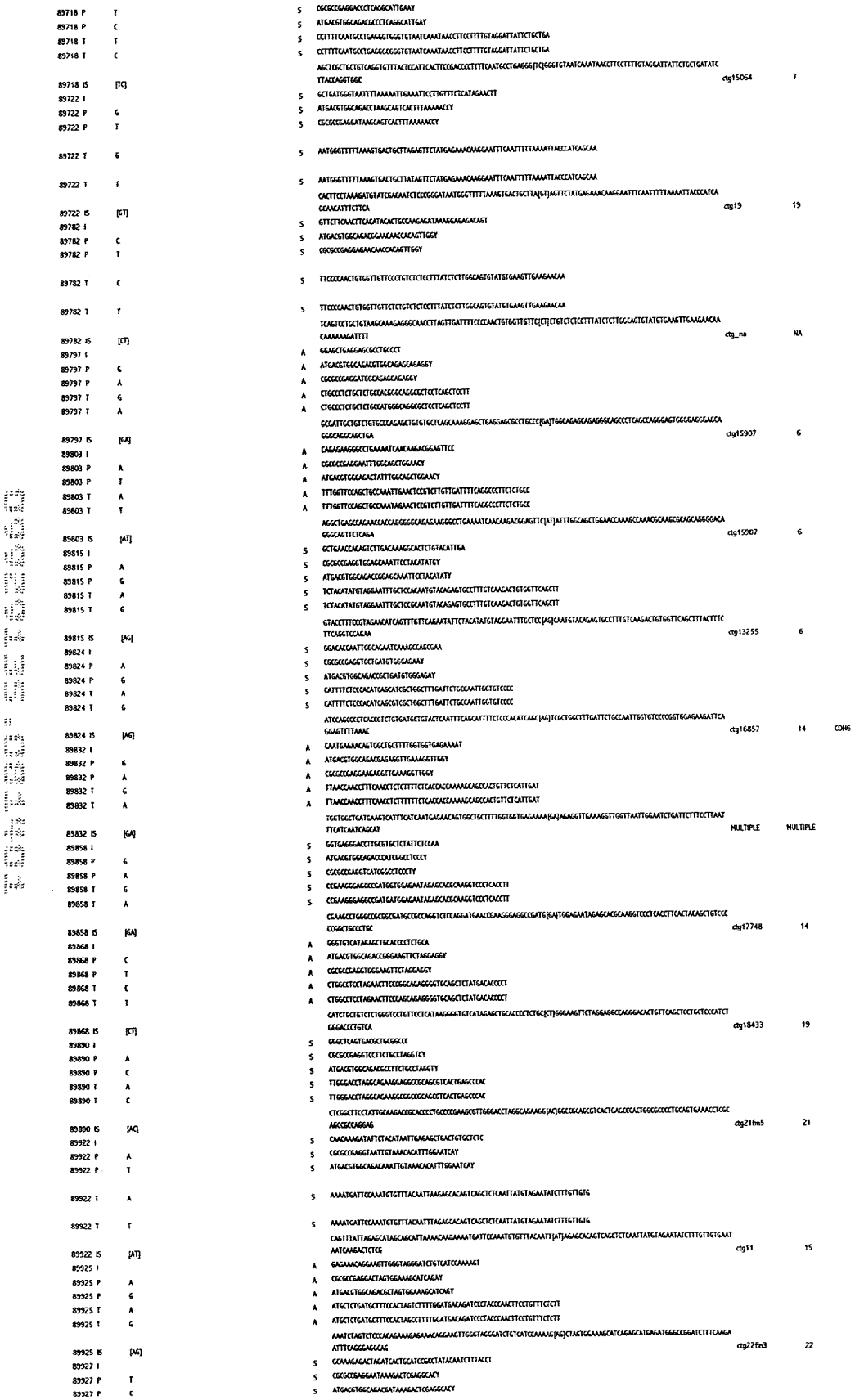

89718 P T S CGCGCCGAGGACCCTCAGGCATTGAAT
89718 P C S ATGACGTGGCAGACGCCCTCAGGCATTGAY
89718 T T S CCTTTTCAATGCCTGAGGGTGGGTGTAATCAAATAACCTTCCTTTTGTAGGATTATTCTGCTGA
89718 T C S CCTTTTCAATGCCTGAGGGCGGGTGTAATCAAATAACCTTCCTTTTGTAGGATTATTCTGCTGA
AGCTCGCTGCTGTCAGGTGTTTACTCCATTCACTTCCGACCCCTTTTCAATGCCTGAGGG[TC]GGGTGTAATCAAATAACCTTCCTTTTGTAGGATTATTCTGCTGATATC
89718 IS [TC] TTACCAGGTGGC ctg15064 7
89722 I S GCTGATGGGTAATTTTAAAAATTGAAATTCCTTGTTTCTCATAGAACTT
89722 P G S ATGACGTGGCAGACCTAAGCAGTCACTTTAAAAACCY
89722 P T S CGCGCCGAGGATAAGCAGTCACTTTAAAAACCY
89722 T G S AATGGGTTTTTAAAGTGACTGCTTAGAGTTCTATGAGAAACAAGGAATTTCAATTTTTAAAATTACCCATCAGCAA
89722 T T S AATGGGTTTTTAAAGTGACTGCTTATAGTTCTATGAGAAACAAGGAATTTCAATTTTTAAAATTACCCATCAGCAA
CACTTCCTAAAGATGTATCGACAATCTCCCCGGGATAATGGGTTTTTAAAGTGACTGCTTA[GT]AGTTCTATGAGAAACAAGGAATTTCAATTTTTAAAATTACCCATCA
89722 IS [GT] GCAACATTTCTTCA ctg19 19
89782 I S GTTCTTCAACTTCACATACACTGCCAAGAGATAAAGGAGAGACAGT
89782 P C S ATGACGTGGCAGAGGGAACAACCACAGTTGGY
89782 P T S CGCGCCGAGGAGAACACCACAGTTGGY
89782 T C S TTCCCCAACTGTGGTTGTTCCCTGTCTCTCCTTTATCTCTTGGCAGTGTATGTGAAGTTGAAGAACAA
89782 T T S TTCCCCAACTGTGGTTGTTCTCTGTCTCTCCTTTATCTCTTGGCAGTGTATGTGAAGTTGAAGAACAA
TCAGTCCTGCTGTAAGCAAAGAGGGCAACCTTAGTTGATTTCCCCAACTGTGGTTGTTC[CT]CTGTCTCTCCTTTATCTCTTGGCAGTGTATGTGAAGTTGAAGAACAA
89782 IS [CT] CAAAAAGATTTT ctg_na NA
89797 I A GGAGCTGAGGAGCGCCTGCCCT
89797 P G A ATGACGTGGCAGACGTGGCAGAGCAGAGGY
89797 P A A CGCGCCGAGGATGGCAGAGCAGAGGY
89797 T G A CTGCCCTCTGCTCTGCCATGGGCAGGGCTCCTCAGCTCCTT
89797 T A A CTGCCCTCTGCTCTGCCATGGGCAGGGCTCCTCAGCTCCTT
GCGATTGCTGTCTGTGCCCAGAGCTGTGTGCTCAGCAAAGGAGCTGAGGAGCGCCTGCCC[GA]TGGCAGAGCAGAGGGCAGCCCTCAGCCAGGGAGTGGGGAGGGAGCA
89797 IS [GA] GGGCAGGCAGCTGA ctg15907 6
89803 I A CAGAGAAGGGCCTGAAAATCAACAAGACGGAGTTCC
89803 P A A CGCGCCGAGGAATTTGGCAGCTGGAACY
89803 P T A ATGACGTGGCAGACTATTTGGCAGCTGGAACY
89803 T A A TTTGGTTCCAGCTGCCAAATTGAACTCCGTCTTGTTGATTTTCAGGCCCTTCTCTCTGCC
89803 T T A TTTGGTTCCAGCTGCCAAATAGAACTCCGTCTTGTTGATTTTCAGGCCCTTCTCTCTGCC
AGGCTGAGCCAGAACCACCAGGGGCCAGAGAAGGGCCTGAAAATCAACAAGACGGAGTTC[AT]ATTTGCCAGCTGGAACCAAAGCCAAACGCAAGCGCGAGCAGGGGCACA
89803 IS [AT] GGGCAGTTCTCAGA ctg15907 6
89815 I S GCTGAACCACAGTCTTGACAAAGGCACTCTGTACATTGA
89815 P A S CGCGCCGAGGTGGAGCAAATTCCTACATATGY
89815 P G S ATGACGTGGCAGACCGGAGCAAATTCCTACATATY
89815 T A S TCTACATATGTAGGAATTTGCTCCACAATGTACAGAGTGCCTTTGTCAAGACTGTGGTTCAGCTT
89815 T G S TCTACATATGTAGGAATTTGCTCCGCAATGTACAGAGTGCCTTTGTCAAGACTGTGGTTCAGCTT
GTACCTTTCCGTAGAACATCAGTTGTTGTTCAGAATATTCTACATATGTAGGAATTTGCTCC[AG]CAATGTACAGAGTGCCTTTGTCAAGACTGTGGTTCAGCTTTACTTTC
89815 IS [AG] TTCAGGTCCAGAA ctg13255 6
89824 I S GGACACCAATTGGCAGAATCAAAGCCAGCGAA
89824 P A S CGCGCCCAGGTGCTGATGTGGGAGAAY
89824 P G S ATGACGTGGCAGACCGCTGATGTGGGAGAY
89824 T A S CATTTTCTCCCACATCAGCATCGCTGGCTTTGATTCTGCCAATTGGTGTCCCC
89824 T G S CATTTTCTCCCACATCAGCGTCGCTGGCTTTGATTCTGCCAATTGGTGTCCCC
ATCCAGCCCCTCACCGTCTGTGATGCTGTACTCAATTTCAGCATTTTCTCCCACATCAGC[AG]TCGCTGGCTTTGATTCTGCCAATTGGTGTCCCCGGTGGAGAAGATTCA
89824 IS [AG] GGAGTTTTAAAC ctg16857 14 CDH6
89832 I A CAATGAGAACAGTGGCTGCTTTTGGTGGTGAGAAAAT
89832 P G A ATGACGTGGCAGACGAGAGGTTGAAAGGTTGGY
89832 P A A CGCGCCGAGGAGAGAGGTTGAAAGGTTGGY
89832 T G A TTAACCAACCTTTCAACCTCTCTTTTCTCACCACCAAAAGCAGCCACTGTTCTCATTGAT
89832 T A A TTAACCAACCTTTCAACCTCTTTTTTCTCACCACCAAAAGCAGCCACTGTTCTCATTGAT
TGGTGGCTGATGAAGTCATTTCATCAATGAGAACAGTGGCTGCTTTTGGTGGTGAGAAAA[GA]AGAGGTTGAAAGGTTGGTTAATTGGAATCTGATTCTTTCCTTAAT
89832 IS [GA] TTCATCAATCAGCAT MULTIPLE MULTIPLE
89858 I S GGTGAGGGACCTTGCGTGCTCTATTCTCCAA
89858 P G S ATGACGTGGCAGACCCATCGGGCTCCCY
89858 P A S CGCGCCGAGGTCATCGGGCTCCCTY
89858 T G S CCGAAGGGAGGCCCATGGTGCAGAATAGAGCACGCAAGGTCCCTCACCTT
89858 T A S CCGAAGGGAGGCCCATGATGCAGAATAGAGCACGCAAGGTCCCTCACCTT
CCAACCTGGGCCGCTGCGATGCCGCCAGGTCTCCAGGATGAACCCAAGGGAGGCCGATG[GA]TGGAGAATAGAGCACGCAAGGTCCCTCACCTTCACTACAGCTGTCCC
89858 IS [GA] CCGGCTGCCCTGC ctg17748 14
89868 I A GGGTGTCATACAGCTGCACCCCTCTGCA
89868 P C A ATGACGTGGCAGACCGGGAAGTTCTAGGAGGY
89868 P T A CGCGCCGAGGTGGGAAGTTCTAGGAGGY
89868 T C A CTGGCCTCCTAGAACTTCCCGGCAGAGGGGTGCAGCTCTATGACACCCCT
89868 T T A CTGGCCTCCTAGAACTTCCCAGCAGAGGGGTGCAGCTCTATGACACCCCT
CATCTGCTGTCTCTGGGTCCTGTTCCTCATAAGGGGTGTCATAGAGCTGCACCCCTCTGC[CT]GGGAAGTTCTAGGAGGCCAGGGACACTGTTCAGCTCCTGCTCCCATCT
89868 IS [CT] GGGACCCTGTCA ctg18433 19
89890 I S GGGCTCAGTGAGCTGCGGCCC
89890 P A S CGCGCCGAGGTCCTCTCTGCCTAGGTCY
89890 P C S ATGACGTGGCGAGCCCTTCTGCCTAGGTY
89890 T A S TTGGGACCTAGGCAGAAGCAGGCCGCAGGGTCACTGAGCCCAC
89890 T C S TTGGGACCTAGGCAGAAGCAGGCCGCCAGCGTCACTGAGCCCAC
CTCGGCTTCCTATTGCAAGACCGCACCCCTGCCCCGAAGCGTTGGGACCTAGGCAGAAGG[AC]GGCCGCAGCGTCACTGAGCCCACTGGCGCCCCTGCAGTGAAACCTCGC
89890 IS [AC] AGCCGCCAGGAG ctg21fin5 21
89922 I S CAACAAAGATATTCTACATAATTGAGAGCTGACTGTGCTCTC
89922 P A S CGCGCCGAGGTAATTGTAAACACATTTGGAATCAY
89922 P T S ATGACGTGGCAGACAAATTGTAAACACATTTGGAATCAY
89922 T A S AAAATGATTCCAAATGTGTTTACAATTAAGAGCACAGTCAGCTCTCAATTATGTAGAATATCTTTGTTGTG
89922 T T S AAAATGATTCCAAATGTGTTTACAATTTAGAGCACAGTCAGCTCTCAATTATGTAGAATATCTTTGTTGTG
CAGTTTATTAGAGCATAGCAGCATTAAAACAAGAAAATGATTCCAAATGTGTTTACAATT[AT]AGAGCACAGTCAGCTCTCAATTATGTAGAATATCTTTGTTGTGAAT
89922 IS [AT] AATCAAGACTCTCG ctg11 15
89925 I A GAGAAACAGGAAGTTGGGTAGGGATCTGTCATCCAAAAGT
89925 P A A CGCGCCGAGGACTAGTGGAAAGCATCAGAY
89925 P G A ATGACGTGGCAGACGCTAGTGGAAAGCATCAGY
89925 T A A ATGCTCTGATGCTTTCCACTAGCTCTTTGGATGACAGATCCCTACCCAACTTCCTGTTCTCCTT
89925 T G A ATGCTCTGATGCTTTCCACTAGCCTTTGGATGACAGATCCCTACCCAACTTCCTGTTCTCCTT
AAATCTAGTCTCCCACAGAAAGAGAAACAGGAAGTTGGGTAGGGATCTGTCATCCAAAAG[AG]CTAGTGGAAAGCATCAGAGACATGAGATGGGCCGGATCTTTCAAGA
89925 IS [AG] ATTTCAGGGAGGCAG ctg22fin3 22
89927 I S GCAAAGAGACTAGATCACTGCATCCGCCTATACAATCTTTACCT
89927 P T S CGCGCCGAGGAATAAAGACTCGAGGCACY
89927 P C S ATGACGTGGCAGACAATAAAGACTCGAGGCACY

FIGURE 129C

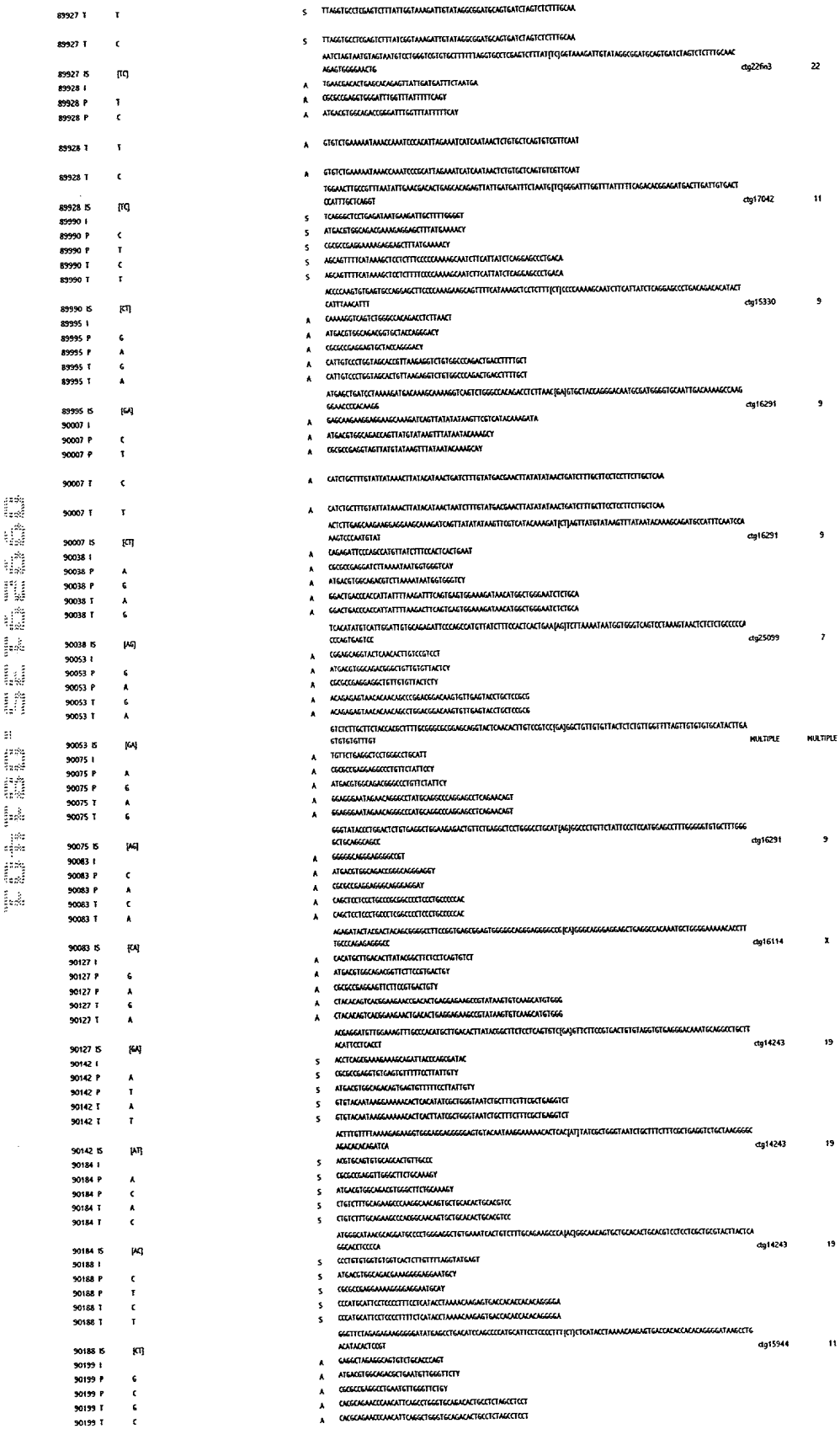


FIGURE 129C

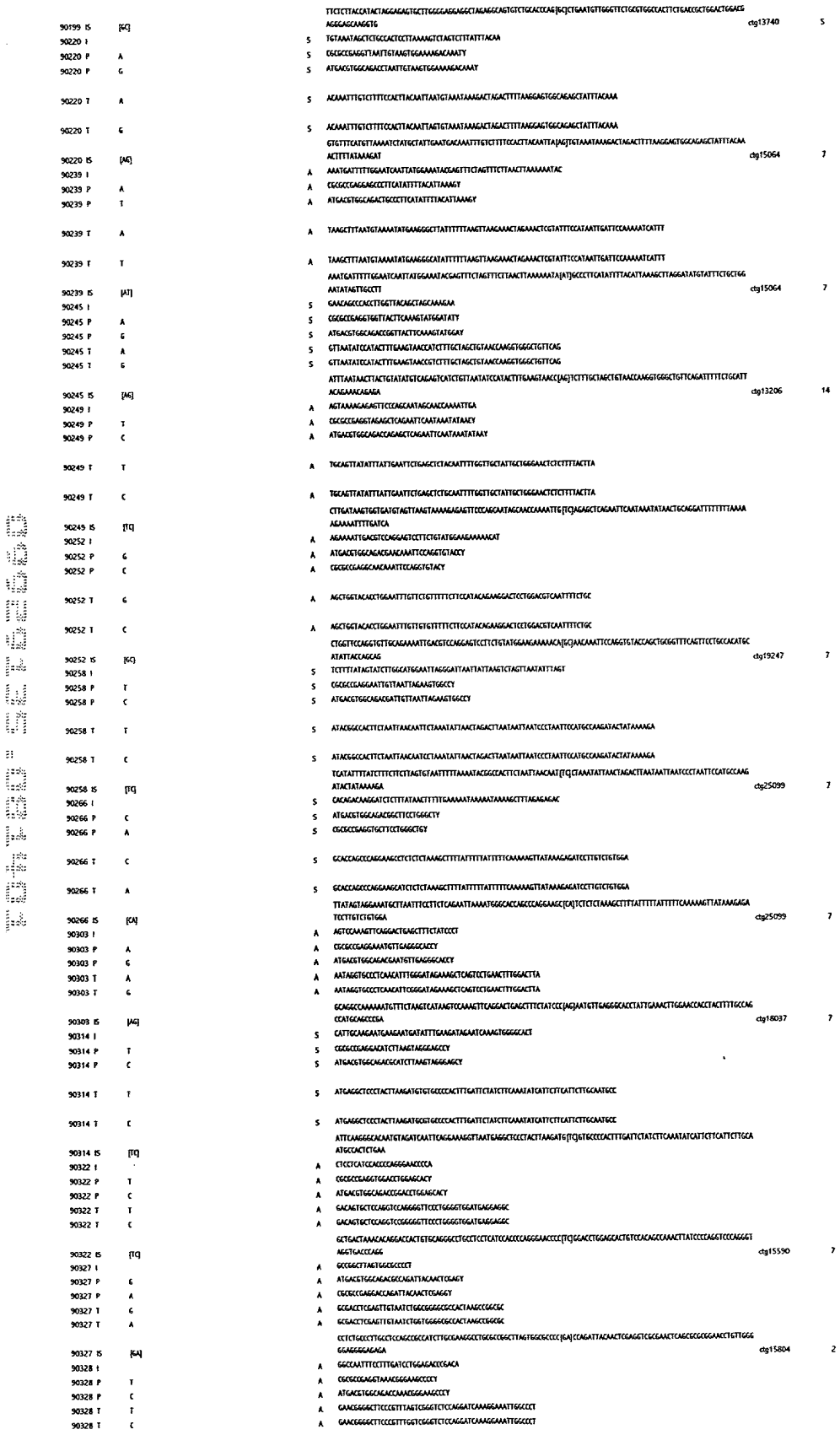
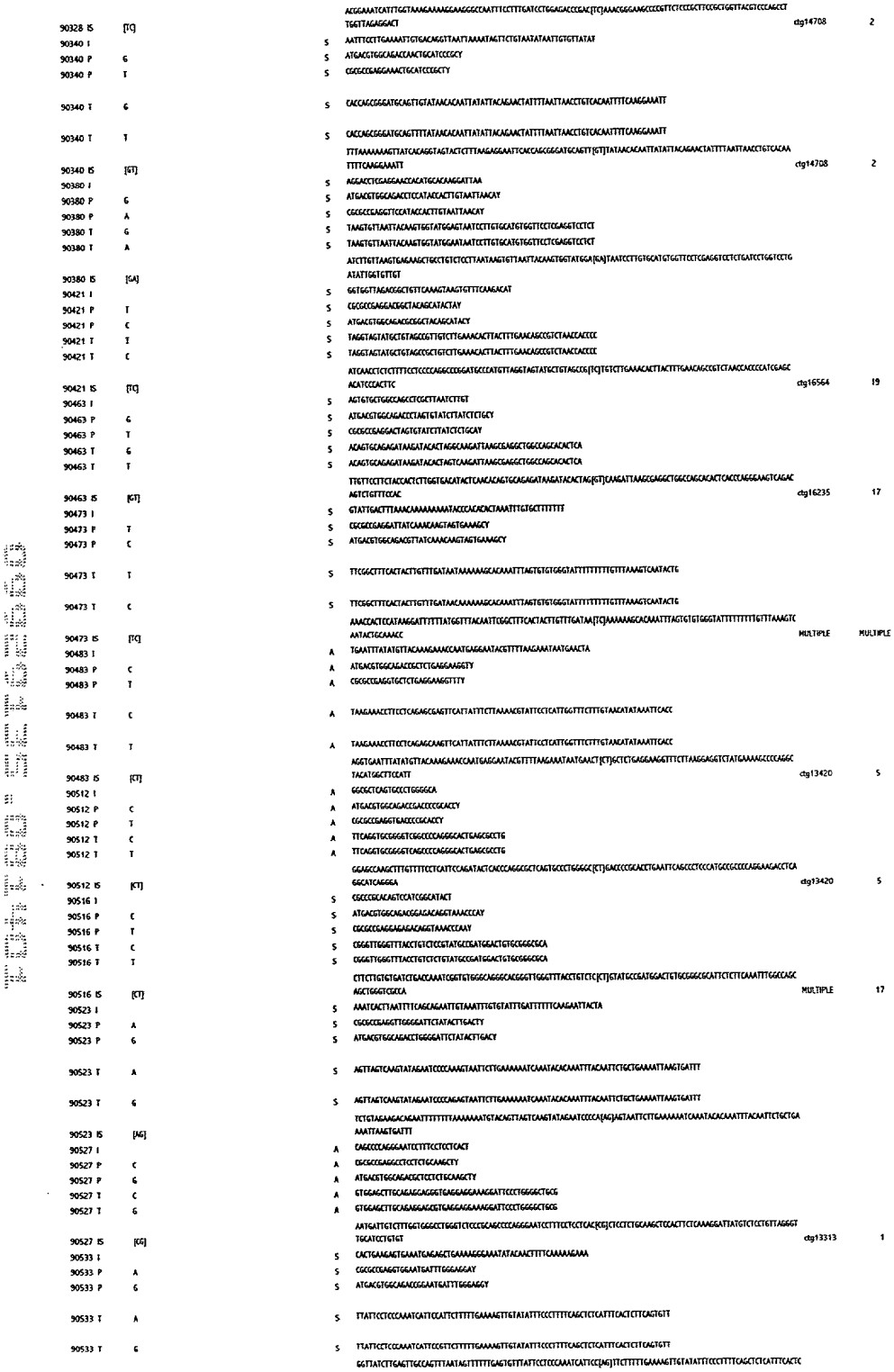

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AGGTGACCCAGG ctg15590 7
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GGAGGGAGAGA ctg15804 2
GGCCAATTTCCTTTGATCCTGGAGACCGACA
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ATGACGTGGCAGACCAAACGGGAAGCCCY
GAACGGGGCTTCCCGTTTAGTCGGGTCTCCAGGATCAAAGGAAATTGGCCCT
GAACGGGGCTTCCCGTTTGGTCGGGTCTCCAGGATCAAAGGAAATTGGCCCT

FIGURE 129C


90328 IS [TC] ACGGAAATCATTTGGTAAAGAAAAGGAAGGGCCAATTTCCTTTGATCCTGGAGACCCGACTCAAACGGGAAGCCCCGTTCTCCCGCTTCCGCTGGTTACGTCCCAGCCT TGGTTAGAGGACT ctg14708 2
90340 I S AATTTCCTTGAAAATTGTGACAGGTTAATTAAAATAGTTCTGTAATATAATTGTGTTATAT
90340 P G S ATGACGTGGCAGACAACTGCATCCCGCY
90340 P T S CGGCCCGAGGAAACTGCATCCCGCTY
90340 T G S CACCAGCGGGATGCAGTTGTATAACACAATTATATTACAGAACTATTTTAATTAACCTGTCACAATTTTCAAGGAAATT
90340 T T S CACCAGCGGGATGCAGTTTTATAACACAATTATATTACAGAACTATTTTAATTAACCTGTCACAATTTTCAAGGAAATT
90340 IS [GT] TTTAAAAAAAGTTATCACAGGTAGTACTCTTTAAGAGGAATTCACCAGCGGGATGCAGTT[GT]TATAACACAATTATATTACAGAACTATTTTAATTAACCTGTCACAA TTTTCAAGGAAATT ctg14708 2
90380 I S AGGACCTCGAGGAACCACATGCACAAGGATTAA
90380 P G S ATGACGTGGCAGACCTCCATACCACTTGTAATTAACAY
90380 P A S CGGCCCCAGGTTCCATACCACTTGTAATTAACAY
90380 T G S TAAGTGTTAATTACAAGTGGTATGGAATAATCCTTGTGCATGTGGTTCCTCGAGGTCCTCT
90380 T A S TAAGTGTTAATTACAAGTGGTATGGAATAATCCTTGTGCATGTGGTTCCTCGAGGTCCTCT
90380 IS [GA] ATCTTGTTAAGTGAGAAGCTGCCTGTCTCCTTAATAAGTGTTAATTACAAGTGGTATGGA[NA]TAATCCTTGTGCATGTGGTTCCTCGAGGTCCTCTGATCCTGGTCCTG ATAATTGGTGTTGT
90421 I S GGTGGTTAGACGGCTGTTCAAAGTAAGTGTTTCAAGACAT
90421 P T S CGCGCCGAGGACGGCTACAGCATACTAY
90421 P C S ATGACGTGGCAGACGCGGCTACAGCATACY
90421 T T S TAGGTAGTATGCTGTAGCCGTTGTCTTGAAACACTTACTTTGAACAGCCGTCTAACCACCCC
90421 T C S TAGGTAGTATGCTGTAGCCGCTGTCTTGAAACACTTACTTTGAACAGCCGTCTAACCACCCC
90421 IS [TC] ATCAACCTCTCTTTCCTCCCCAGGCCCGGATGCCCATGTTAGGTAGTATGCTGTAGCCG[TC]TGTCTTGAAACACTTACTTTGAACAGCCGTCTAACCACCCCATCGAGC ACATCCCACTTC ctg16564 19
90463 I S AGTGTGCTGGCCAGCCTCGCTTAATCTTGT
90463 P G S ATGACGTGGCAGACCCTAGTGTATCTTATCTCTGCY
90463 P T S CGCGCCGAGGACTAGTGTATCTTATCTCTGCAY
90463 T G S ACAGTGCAGAGATAAGATACACTAGGCAAGATTAAGCGAGGCTGGCCAGCACACTCA
90463 T T S ACAGTGCAGAGATAAGATACACTAGTCAAGATTAAGCGAGGCTGGCCAGCACACTCA
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90473 I S GTATTGACTTTAAACAAAAAAAAATACCCACACACACTAAATTTGTGCTTTTTTT
90473 P T S CGCGCCGAGGATTATCAAACAAGTAGTGAAAGCY
90473 P C S ATGACGTGGCAGAGGTTATCAAACAAGTAGTGAAAGCY
90473 T T S TTCGGCTTTCACTACTTGTTTGATAATAAAAAAGCACAAATTTAGTGTGTGGGTATTTTTTTTTGTTTAAAGTCAATACTG
90473 T C S TTCGGCTTTCACTACTTGTTTGATAACAAAAAAGCACAAATTTAGTGTGTGGGTATTTTTTTTTGTTTAAAGTCAATACTG
90473 IS [TC] AAACCACTCCATAAGGATTTTTTATGGTTTACAATTCGGCTTTCACTACTTGTTTGATAA[TC]AAAAAAGCACAAATTTAGTGTGTGGGTATTTTTTTTTGTTTAAAGTC AATACTGCAAACC MULTIPLE MULTIPLE
90483 I A TGAATTTATATGTTACAAAGAAACCAATGAGGAATACGTTTTAAGAAATAATGAACTA
90483 P C A ATGACGTGGCAGACCGCTCTGAGGAAGGTY
90483 P T A CGCGCCGAGGTGCTCTGAGGAAGGTTTY
90483 T C A TAAGAAACCTTCCTCAGAGCGAGTTCATTATTTCTTAAAACGTATTCCTCATTGGTTTCTTTGTAACATATAAATTCACC
90483 T T A TAAGAAACCTTCCTCAGAGCAAGTTCATTATTTCTTAAAACGTATTCCTCATTGGTTTCTTTGTAACATATAAATTGACC
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90512 I A GGCGCTCAGTGCCCTGGGGCA
90512 P C A ATGACGTGGCAGACCGACCCCGCACCY
90512 P T A CGCGCCGAGGTGACCCCGCACCY
90512 T C A TTCAGGTGCCGGGCTCGGCCCCAGGGCACTGAGCGCCTG
90512 T T A TTCAGGTGCCGGGGTCAGCCCCAGGGCACTGAGCGCCTG
90512 IS [CT] GGAGCCAAGCTTTGTTTTCCTCATTCCAGATACTCACCCAGGCGCTCAGTGCCCTGGGGC[CT]GACCCCGCACCTGAATTCAGCCCTCCCATGCCGCCCCAGGAAGACCTCA GGCATCAGGGA ctg13420 5
90516 I S CGCCCGCACAGTCCATCGGCATACT
90516 P C S ATGACGTGGCAGACGGACACAGGTAAACCCAY
90516 P T S CGCGCCGAGGAGACACAGGTAAACCCAAY
90516 T C S CGGGTTGGGTTTACCTGTCTCCGTATGCCGATGGACTGTGCGGGCGCA
90516 T T S CGGGTTGGGTTTACCTGTCTCTGTATGCCGATGGACTGTGCGGGCGCA
90516 IS [CT] CTTCTTGTGTGATCTCAACAAATCGGTGTGGGCAGGGCACGGGTTGGGTTTACCTGTCTC[CT]GTATGCCGATGGACTGTGCGGGCGCATTCTCTTCAAATTTGGCCAGC AGCTGGGTCGCCA MULTIPLE 17
90523 I S AAATCACTTAATTTTCAGCAGAATTGTAAATTTGTGTATTTGATTTTTTCAAGAATTACTA
90523 P A S CGCGCCGAGGTTGGGGATTCTATACTTGACTY
90523 P G S ATGACGTGGCAGACCTGGGGATTCTATACTTGACY
90523 T A S AGTTAGTCAAGTATAGAATCCCCAAAGTAATTCTTGAAAAAATCAAATACACAAATTTACAATTCTGCTGAAAATTAAGTGATTT
90523 T G S AGTTAGTCAAGTATAGAATCCCCAGAGTAATTCTTGAAAAAATCAAATACACAAATTTACAATTCTGCTGAAAATTAAGTGATTT
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90527 P C A CGCGCCGAGGCCTCCTCTGCAAGCTY
90527 P G A ATGACGTGGCAGCAGGCTCCTCTGCAAGCTY
90527 T C A GTGGAGCTTGCAGAGGAGGGTGAGGAGGAAAGGATTCCCTGGGGCTGCG
90527 T G A GTGGAGCTTGCAGAGGAGGGTGAGGAGGAAAGGATTCCCTGGGGCTGCG
90527 IS [CG] AATGATTGTCTTTGGTGGGCCTGGGTCTCCCGCAGCCCAGGGAATCCTTTCCTCCTCAC[CG]CTCCTCTGCAAGCTGCACTTCTCAAAGGATTATGTCTCCTGTTAGGGT TGCATCTGTGT ctg13313 1
90533 I S CACTGAAGAGTGAAATGAGAGCTGAAAAGGGAAATATACAACTTTTCAAAAGAAA
90533 P A S CGCGCCGAGGTGGAATGATTTGGGAGGAY
90533 P G S ATGACGTGGCAGACCGGAATGATTTGGGAGGY
90533 T A S TTATTCCTCCCAAATCATTCCATTCTTTTTGAAAAGTTGTATATTTCCCTTTTCAGCTCTCATTTCACTCTTCAGTGTT
90533 T G S TTATTCCTCCCAAATCATTCCGTTCTTTTTGAAAAGTTGTATATTTCCCTTTTCAGCTCTCATTTCACTCTTCAGTGTT
90533 IS [AG] GGTTATCTTGAGTTGCCAGTTTAATAGTTTTTTGAGTGTTTATTCCTCCCAAATCATTCC[AG]TTCTTTTTGAAAAGTTGTATATTTCCCTTTTCAGCTCTCATTTCACTC TTCAGTGTTCCT ctg16318 19
90536 I S CCGCTCATAGCATGACAGACAAATCTACTTTTCAAATGTGCATATT
90536 P C S ATGACGTGGCAGACGCAAATGGCTCTCCTGY
90536 P T S CGCGCCGAGGACAAATGGCTCTCCTGY
90536 T C S AAAGCAGGAGAGCCATTTGCATATGCACATTTGAAAAGTAGATTTGTCTGTCATGCTATGAGCGGTA
90536 T T S AAAGCAGGAGAGCCATTTGTATATGCACATTTGAAAAGTAGATTTGTCTGTCATGCTATGAGCGGTA
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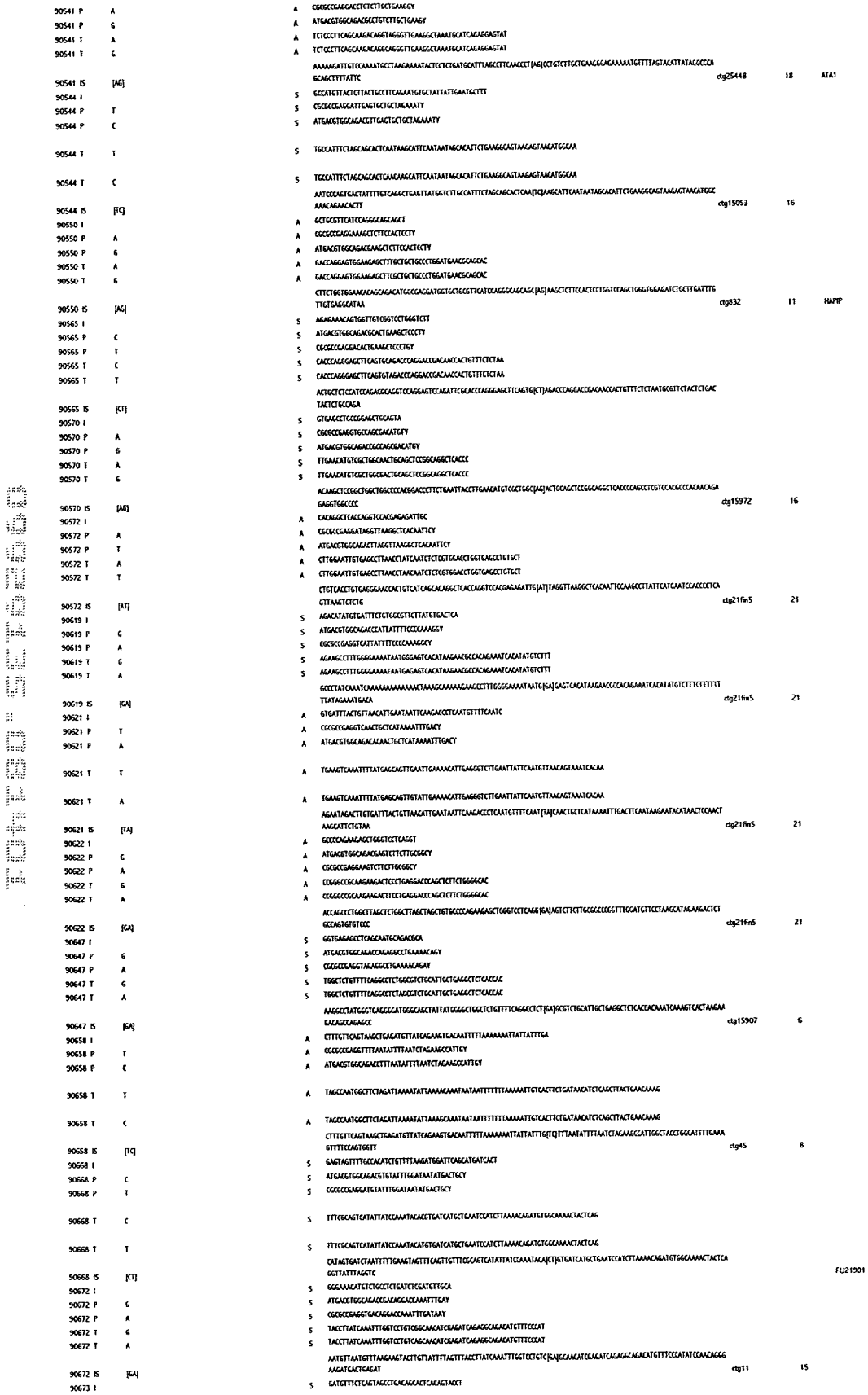
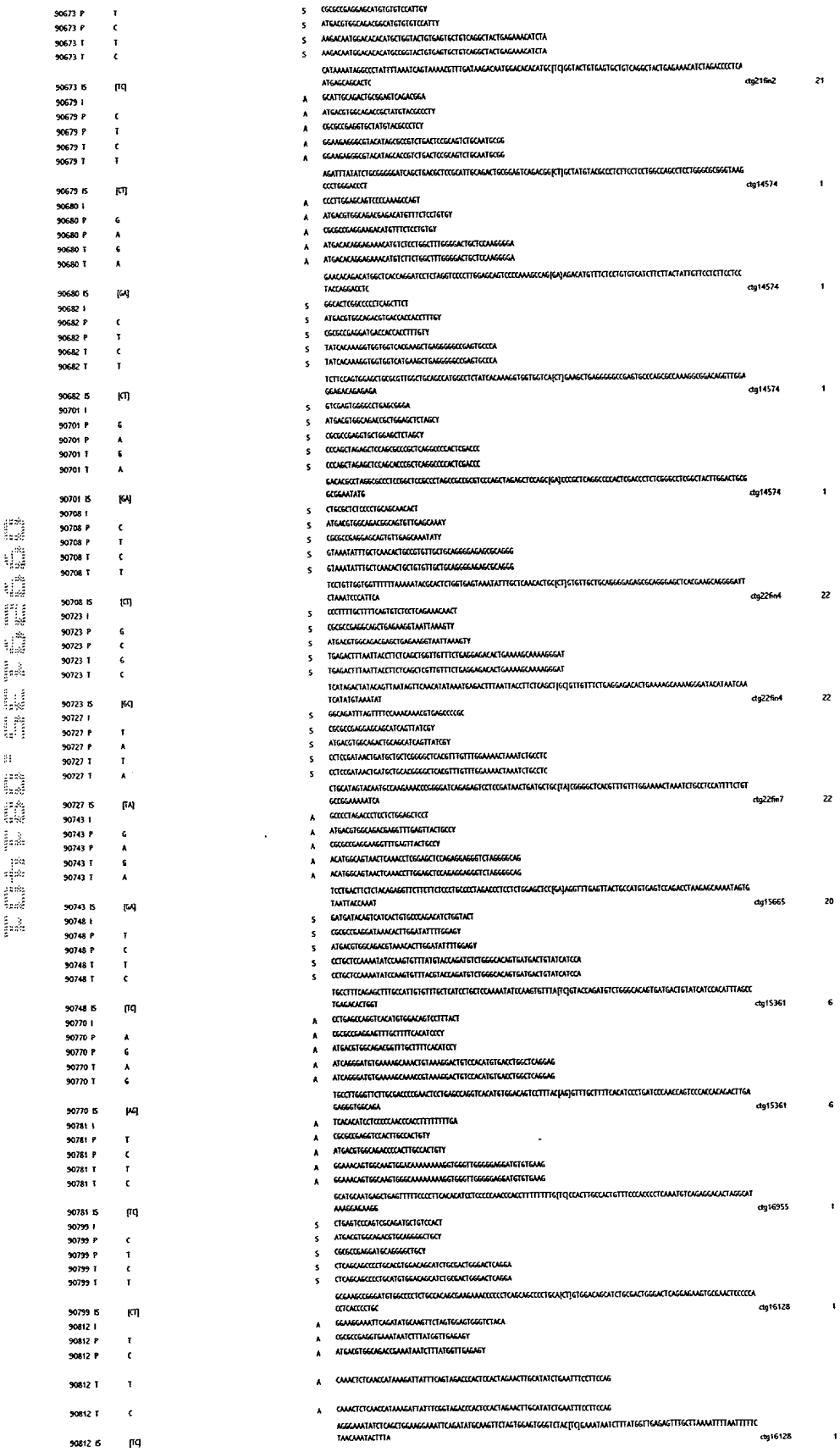


FIGURE 129C


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90679 P T
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90679 T T
90679 IS [CT]
90680 I
90680 P G
90680 P A
90680 T G
90680 T A
90680 IS [GA]
90682 I
90682 P C
90682 P T
90682 T C
90682 T T
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90701 I
90701 P G
90701 P A
90701 T G
90701 T A
90701 IS [GA]
90708 I
90708 P C
90708 P T
90708 T C
90708 T T
90708 IS [CT]
90723 I
90723 P G
90723 P C
90723 T G
90723 T C
90723 IS [GC]
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90727 T T
90727 T A
90727 IS [TA]
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90743 P G
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90743 T A
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90770 T G
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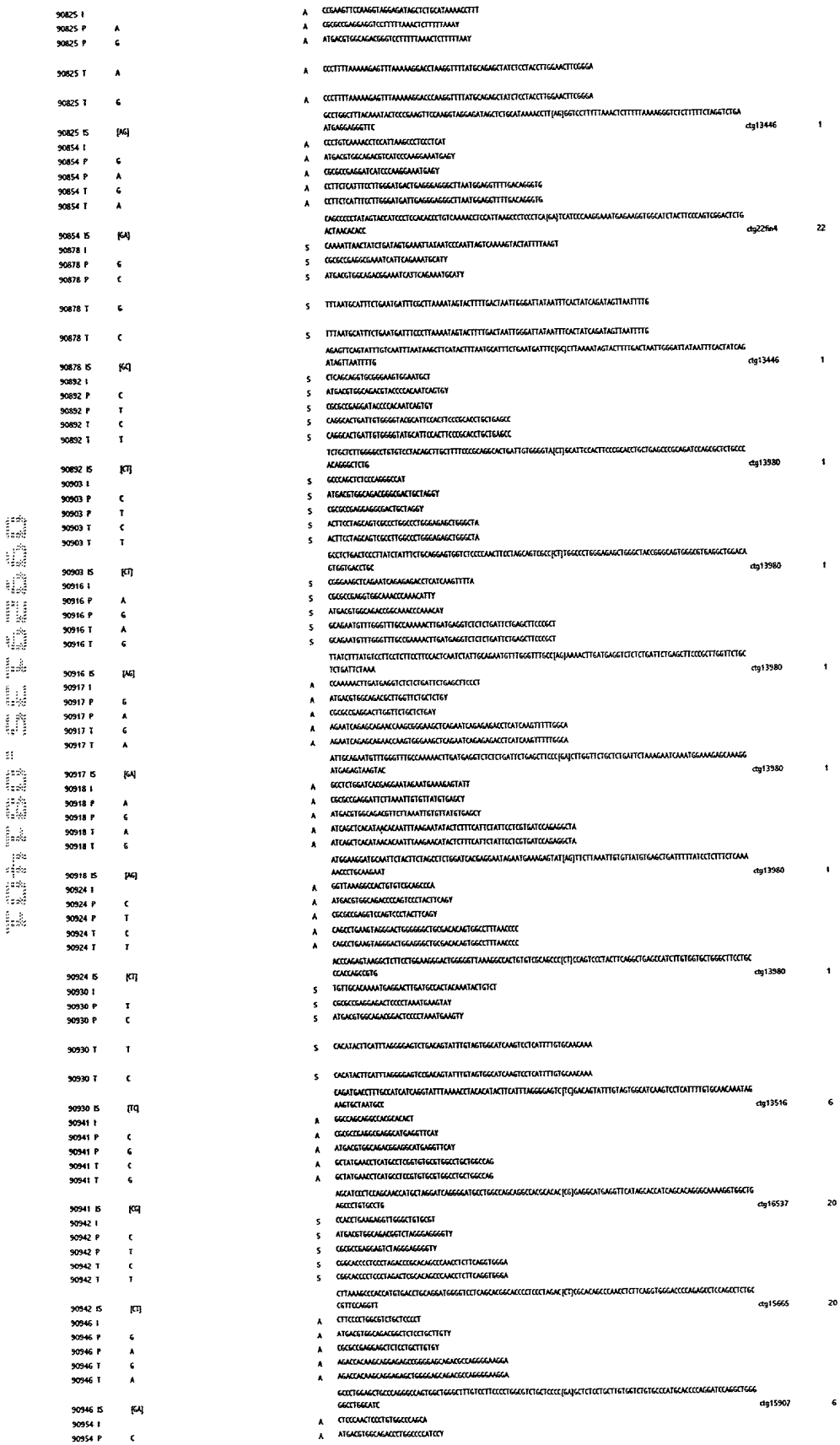
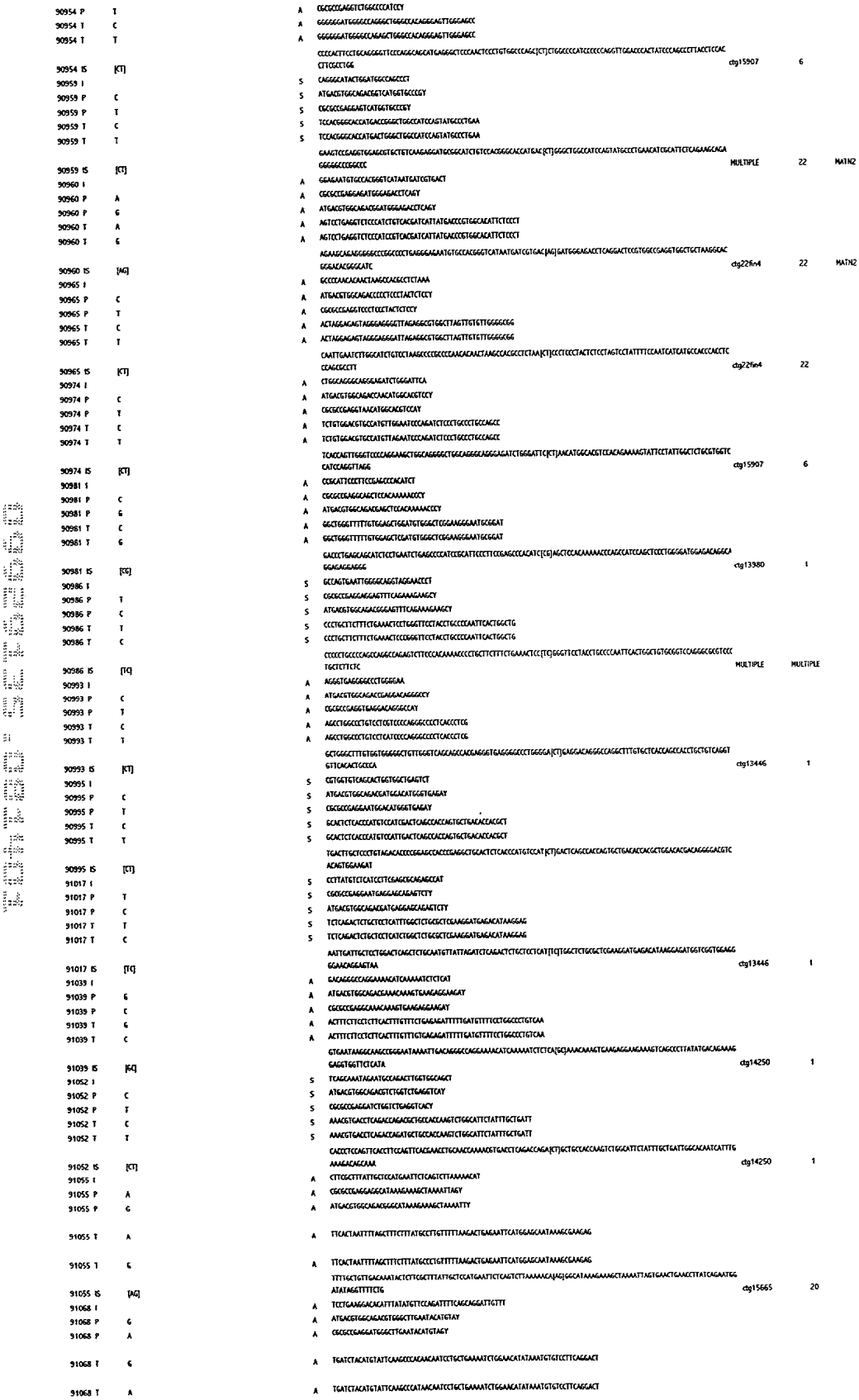


FIGURE 129C



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FIGURE 129C

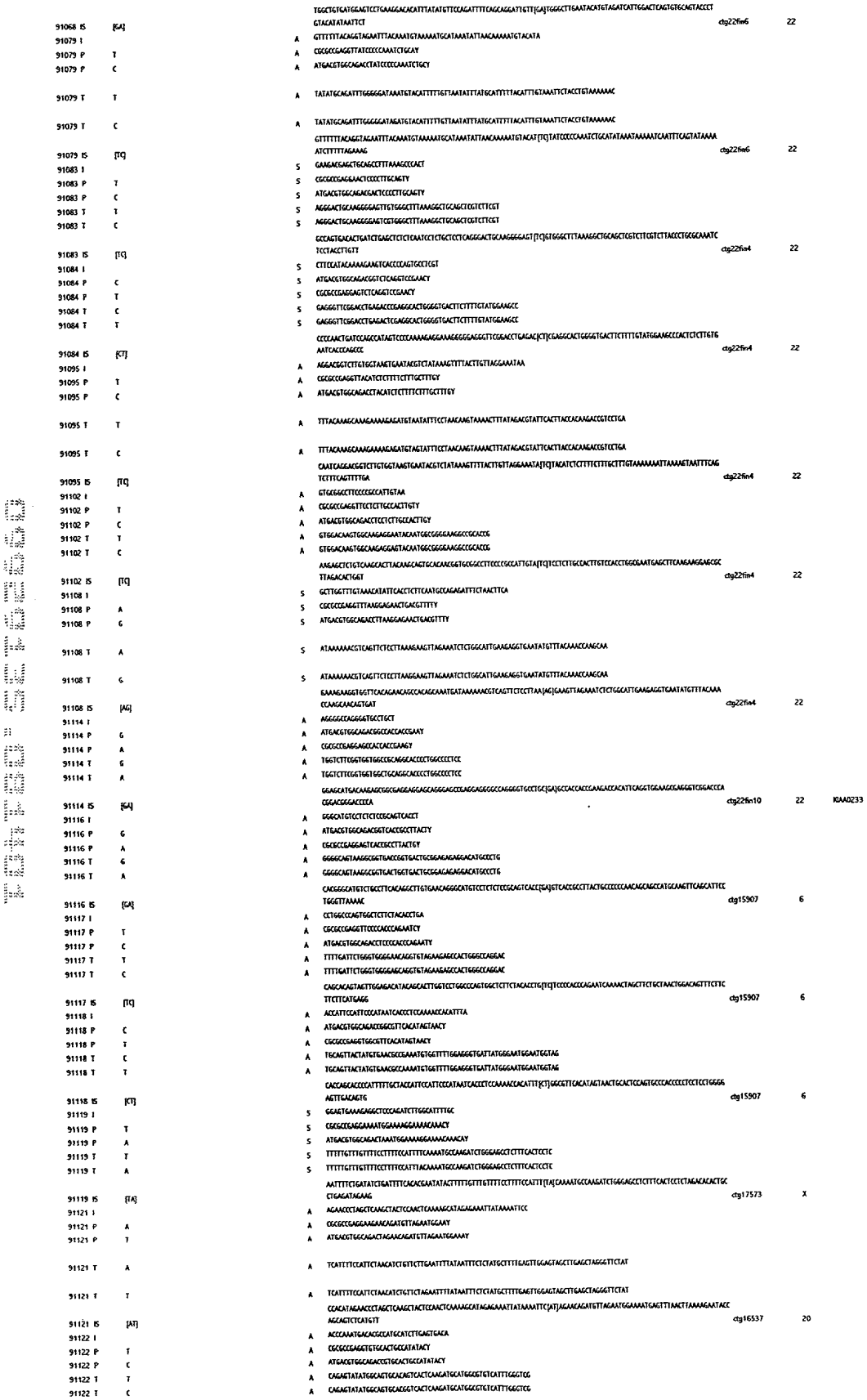

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91068 IS [GA]
91079 I A GTTTTTACAGGTAGAATTTACAAATGTAAAATGCATAAATATTAACAAAAATGTACATA
91079 P T A CGCGCCGAGGTTATCCCCCAAATCTGCAY
91079 P C A ATGACGTGGCAGACCTATCCCCCAAATCTGCY
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ATCTTTTTAGAAAG ctg22fin6 22
91079 IS [TC]
91083 I S GAAGAGGAGCTGCAGCCTTTAAAGCCCACT
91083 P T S CGCGCCGAGGAACTCCCCTTGCAGTY
91083 P C S ATGACGTGGCAGAGGACTCCCCTTGCAGTY
91083 T T S AGGGACTGCAAGGGGAGTTGTGGGCTTTAAAGCTGCAGCTCGTCTTCGT
91083 T C S AGGGACTGCAAGGGGAGTCGTGGGCTTTAAAGCTGCAGCTCGTCTTCGT
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TCCTACCTTGTT ctg22fin4 22
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91095 P C A ATGACGTGGCAGACCTACATCTCTTTTCTTTGCTTTGY
91095 T T A TTTACAAAGCAAAGAAAAGAGATGTAATATTTCCTAACAAGTAAAACTTTATAGACGTATTCACTTACCACAAGACCGTCCTGA
91095 T C A TTTACAAAGCAAAGAAAACAGATGTAGTATTTCCTAACAAGTAAAACTTTATAGACGTATTCACTTACCACAAGACCGTCCTGA
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TCTTTCAGTTTTGA ctg22fin4 22
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91102 I A GTGGGGCTTCCCCGGCCATTGTAA
91102 P T A CGCGCCGAGGTTCCTCTTGCCACTTGTY
91102 P C A ATGACGTGGCAGACCTCCTCTTGCCACTTGY
91102 T T A GTGGCACAAGTGGCAAGAGGAATACAATGGCGGGGAAGGCCGCACCG
91102 T C A GTGGCACAAGTGGCAAGAGGAGTACAATGGCGGGGAAGGCCGCACCG
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TTAGACACTGGT ctg22fin4 22
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91108 I S GCTTGGTTTGTAAACATATTCACCTCTTCAATGCCAGAGATTTCTAACTTCA
91108 P A S CGCGCCGAAGTTTAAGGAGAACTGACGTTTTY
91108 P G S ATGACGTGGCAGACCTAAGGAGAACTGACGTTTY
91108 T A S ATAAAAAACGTCAGTTCTCCTTAAAGAAGTTAGAAATCTCTGGCATTGAAGAGGTGAATATGTTTACAAACCAAGCAA
91108 T G S ATAAAAAACGTCAGTTCTCCTTAAGGAAGTTAGAAATCTCTGGCATTGAAGAGGTGAATATGTTTACAAACCAAGCAA
EAAAGAAGGTGGTTCACAGAACAGCCACAGCAAATGATAAAAAACGTCAGTTCTCCTTAA[AG]GAAGTTAGAAATCTCTGGCATTGAAGAGGTGAATATGTTTACAAA
CCAAGCAACAGTGAT ctg22fin4 22
91108 IS [AG]
91114 I A AGGGGCCAGAGGGTGCCTGCT
91114 P G A ATGACGTGGCAGACGGCCACCACCGAAY
91114 P A A CGCGCCGAGGAGCCACCACCGAAGY
91114 T G A TGGTCTTGGGTGGTGGCCGCAGGCACCCCTGGCCCCTCC
91114 T A A TGGTCTTCGGTGGTGGCTGCAGGCACCCCTGGCCCCTCC
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91116 P G A ATGACGTGGCACACGGTCACCGCCTTACTY
91116 P A A CGCGCCGAGGAGTCACCGCCTTACTGY
91116 T G A GGGGCAGTAAGGCGGTGACCGGTGACTGCGGAGAGAGGACATGCCCTG
91116 T A A GGGGCAGTAAGGCGGTGACTGGTGACTGCGGACAGAGGACATGCCCTG
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TGGGTTAAAAC ctg15907 6
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91117 I A CCTGGCCCAGTGGCTCTTCTACACCTGA
91117 P T A CGCGCCGAGGTTCCCCACCAGAATCY
91117 P C A ATGACGTGGCAGACCTCCCCACCCAGAATY
91117 T T A TTTTGATTCTGGGTGGGGAACAGGTGTAGAAGAGCCACTGGGCCAGGAC
91117 T C A TTTTGATTCTGGGTGGGGAGCAGGTGTAGAAGAGCCACTGGGCCAGGAC
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TTCTTCATGAGG ctg15907 6
91117 IS [TC]
91118 I A ACCATTCCATTCCCATAATCACCCTCCAAAACCACATTTA
91118 P C A ATGACGTGGCAGACGGCGTTCACATAGTAACY
91118 P T A CGCGCCGAGGTGGCGTTCACATAGTAACY
91118 T C A TGCAGTTACTATGTGAACGCCAAATGTGGTTTTGGAGGGTGATTATGGGAATGGATGGTAG
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AGTTGACAGTG ctg15907 6
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91119 P T S CGCGCCGAGGAAAATGGGAAAAGGAAAACAAACY
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91119 T A S TTTTTGTTTGTTTTCCTTTTCCATTTACAAAATGCCAAGATCTGGGAGCCTCTTTCACTCCTC
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91121 P T A ATGACGTGGCAGACTAGAACAGATGTTAGAATGGAAAY
91121 T A A TCATTTTCCATTCTAACATCTGTTCTTGAATTTTATAATTTCTCTATGCTTTTGAGTTGGAGTAGCTTGAGCTAGGGTTCTAT
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91122 P C A ATGACGTGGCAGACCGTGCACTGCCATATACY
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FIGURE 129C

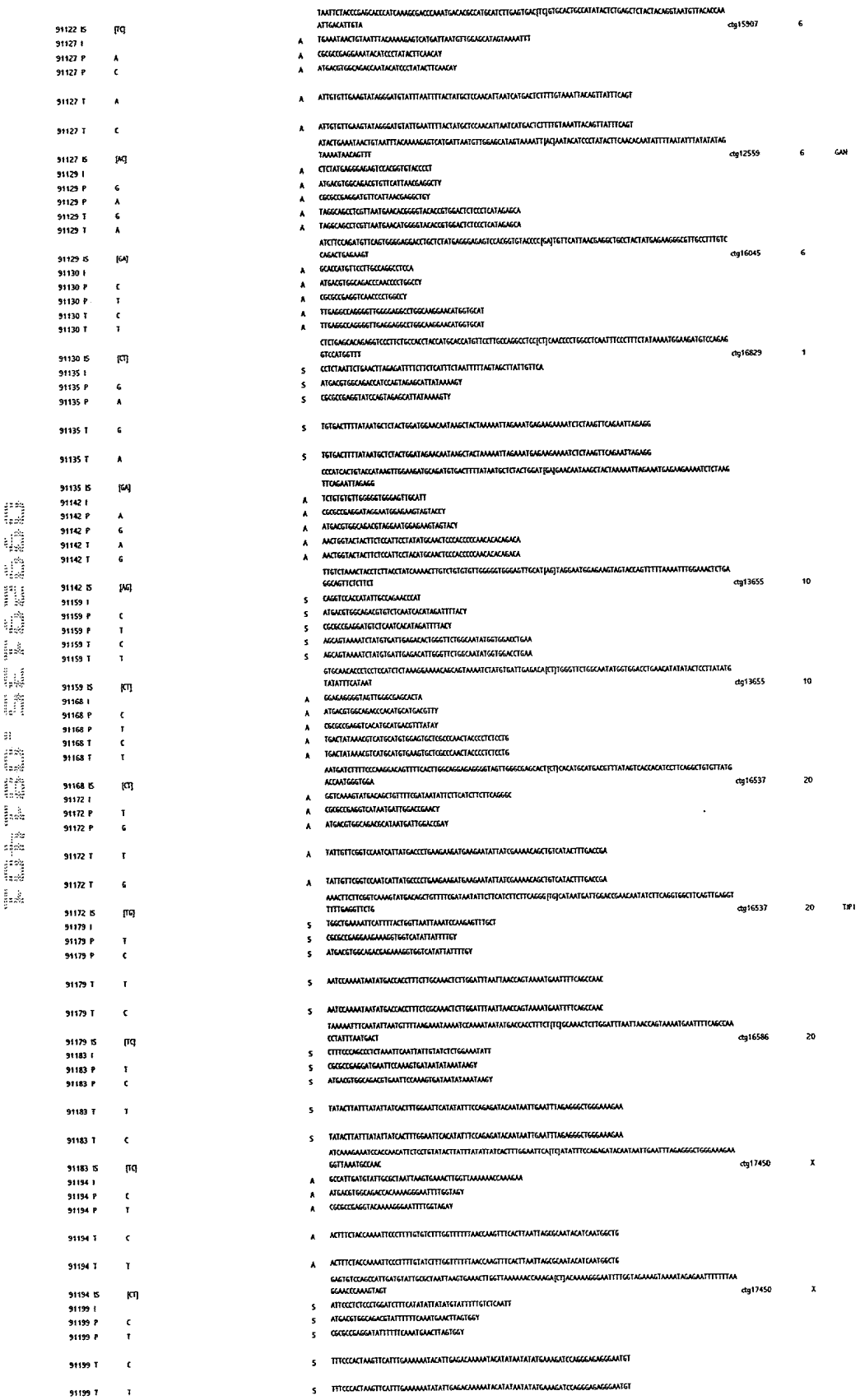


FIGURE 129C

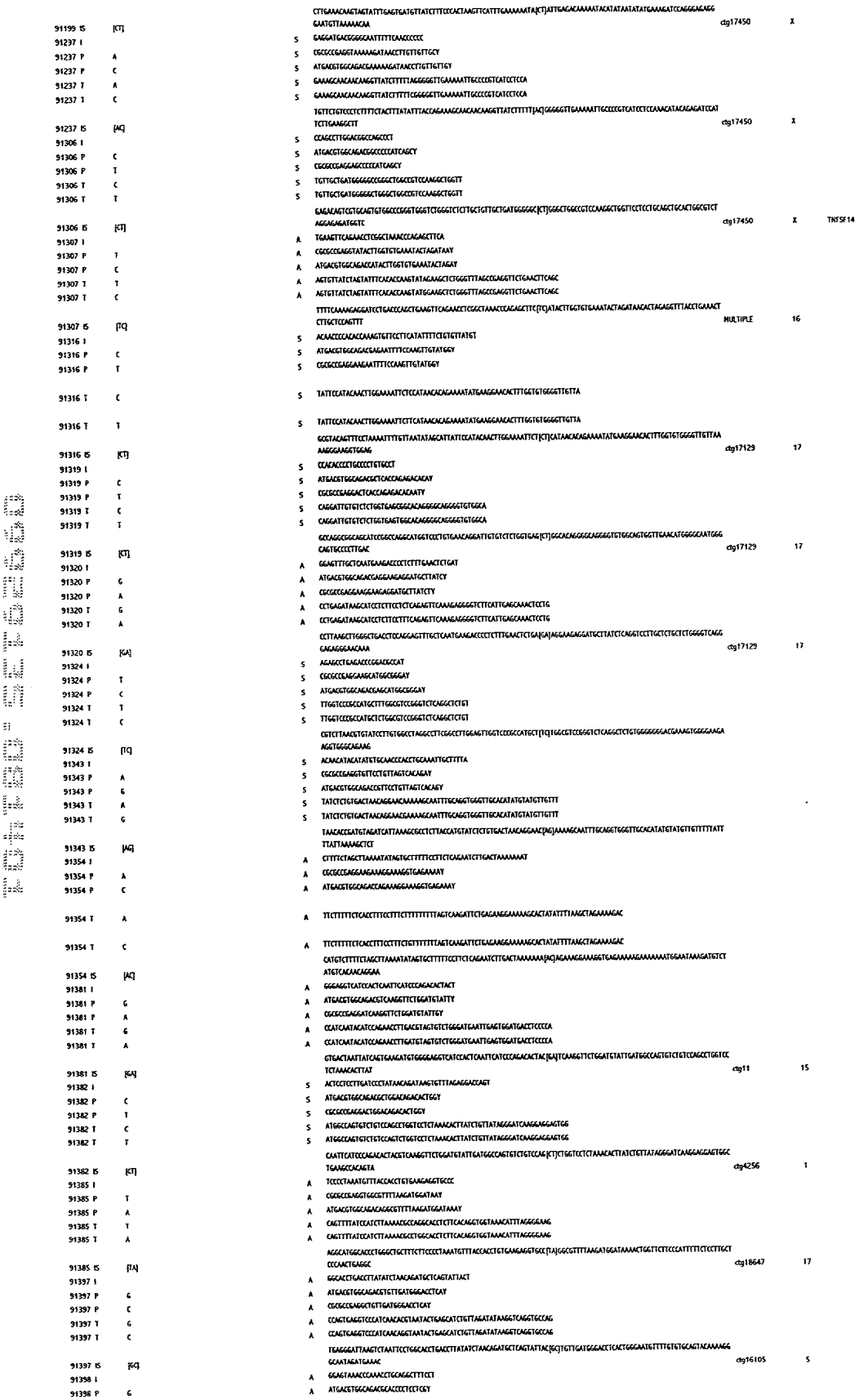
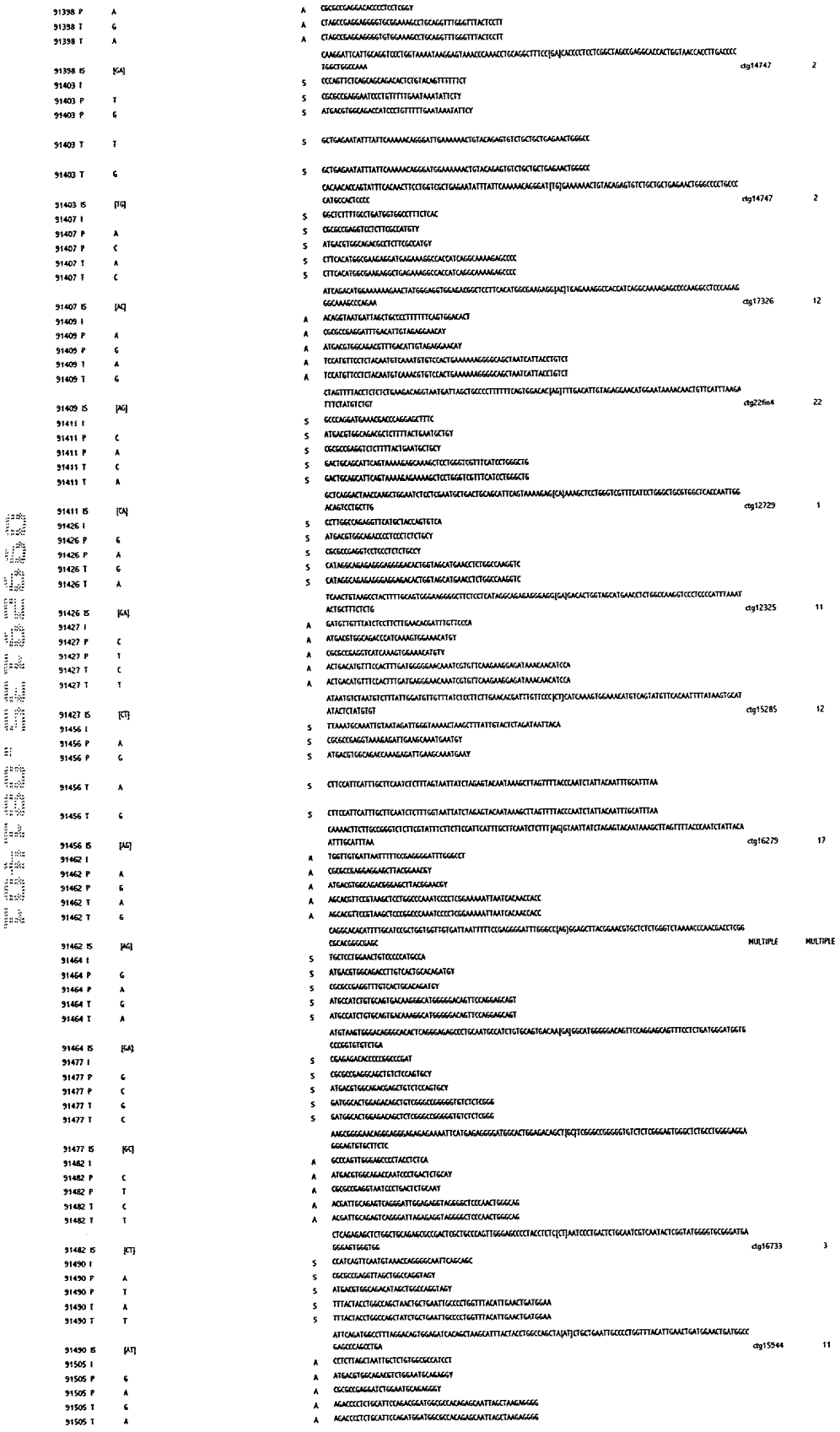


FIGURE 129C



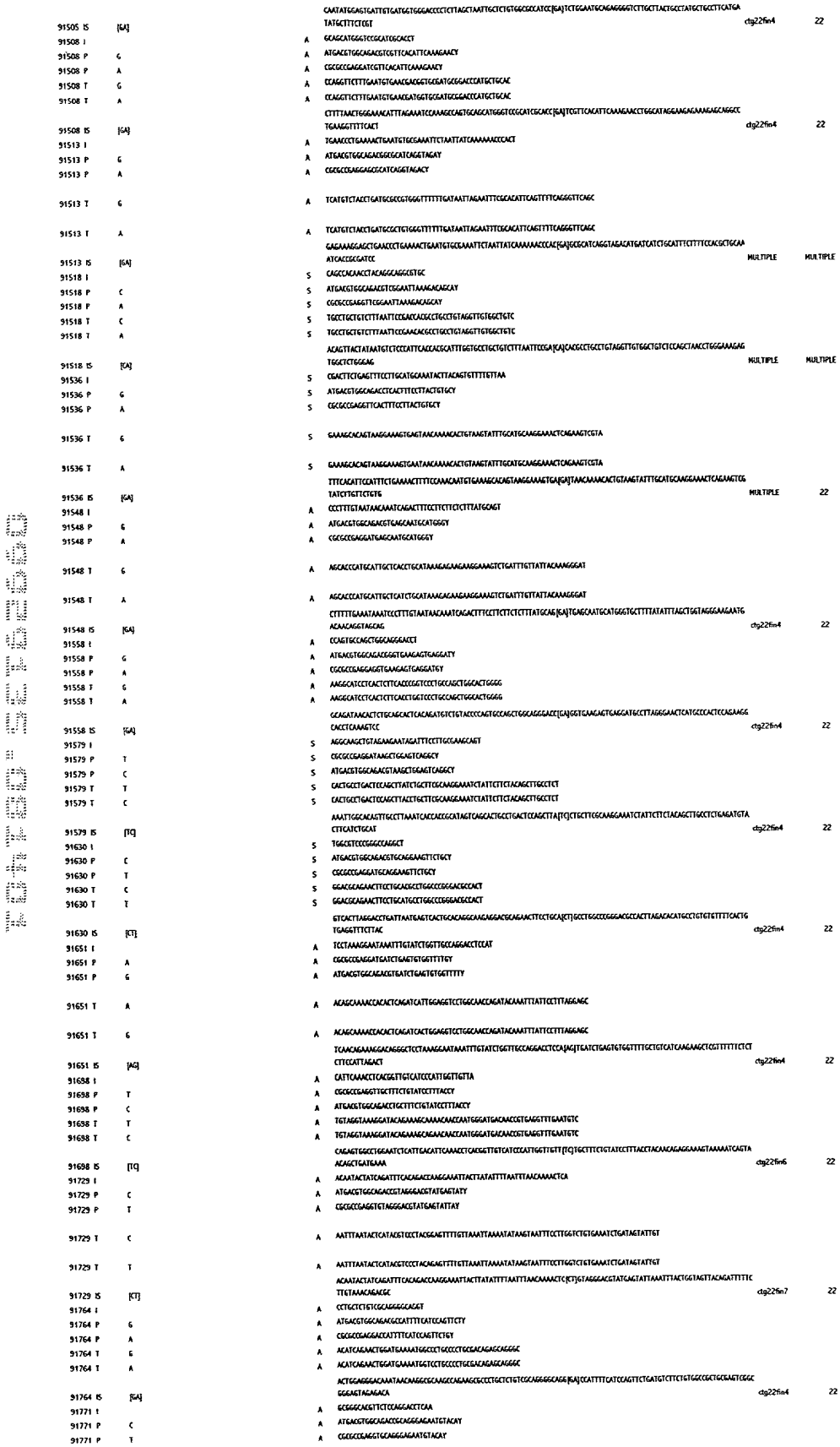

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91513 P A A CGCGCCGAGGAGGCCATCAGGTAGACY
91513 T G A TCATGTCTACCTGATGCGCCGTGGGTTTTTTGATAATTAGAATTTCGCACATTCAGTTTTCAGGGTTCAGC
91513 T A A TCATGTCTACCTGATGCGCTGTGGGTTTTTTGATAATTAGAATTTCGCACATTCAGTTTTCAGGGTTCAGC
91513 IS [GA] GAGAAAGCAGCTGAACCCTGAAAACTGAATGTGCGAAATTCTAATTATCAAAAAACCCACTGAGCGCATCAGGTAGACATGATCATCTGCATTTCTTTCCACGCTGCAA ATCACCGCGATCC MULTIPLE MULTIPLE
91518 I S CAGCCACAACCTACAGGCAGGCGTGC
91518 P C S ATGACGTGGCAGACGTCGGAATTAAAGACAGCAY
91518 P A S CGCGCCGAGGTTCGGAATTAAAGACAGCAY
91518 T C S TGCCTGCTGTCTTTAATTCCGAACACGCCTGCCTGTAGGTTGTGGCTGTC
91518 T A S TGCCTGCTGTCTTTAATTCCGAACACGCCTGCCTGTAGGTTGTGGCTGTC
91518 IS [CA] ACAGTTACTATAATGTCTCCCATTCACCACGCATTTGGTGCCTGCTGTCTTTAATTCCGA[CA]CACGCCTGCCTGTAGGTTGTGGCTGTCTCCAGCTAACCTGGGAAAGAG TGGCTCTGGGAG MULTIPLE MULTIPLE
91536 I S CGACTTCTGAGTTTCCTTGCATGCAAATACTTACAGTGTTTTGTTAA
91536 P G S ATGACGTGGCAGACCTCACTTTCCTTACTGTGCY
91536 P A S CGCGCCGAGGTTCACTTTCCTTACTGTGCY
91536 T G S GAAAGCACAGTAAGGAAAGTGAGTAACAAAACACTGTAAGTATTTGCATGCAAGGAAACTCAGAAGTCGTA
91536 T A S GAAAGCACAGTAAGGAAAGTGAATAACAAAACACTGTAAGTATTTGCATGCAAGGAAACTCAGAAGTCGTA
91536 IS [GA] TTTCACATTCCATTTCTGAAAACTTTTCCAAACAATGTGAAAGCACAGTAAGGAAAGTGA[GA]TAACAAAACACTGTAAGTATTTGCATGCAAGGAAACTCAGAAGTCG TATCTTGTTCTGTG MULTIPLE 22
91548 I A CCCTTTGTAATAACAAATCAGACTTTCCTTCTTCTCTTTATGCAGT
91548 P G A ATGACGTGGCAGACGTGAGCAATGCATGGGY
91548 P A A CGCGCCGAGGATGAGCAATGCATGGGY
91548 T G A AGCACCCATGCATTGCTCACCTGCATAAAGAGAAGAAGGAAAGTCTGATTTGTTATTACAAAGGGAT
91548 T A A AGCACCCATGCATTGCTCATCTGCATAAAGACAAGAAGGAAAGTCTGATTTGTTATTACAAAGGGAT
91548 IS [GA] CTTTTTGAAATAAATCCCTTTGTAATAACAAATCAGACTTTCCTTCTTCTCTTTATGCAG[GA]TGAGCAATGCATGGGTGCTTTTATATTTAGCTGGTAGGGAAGAATG ACAACAGGTAGCAG ctg22fin4 22
91558 I A CCAGTGCCAGCTGGCAGGGAACCT
91558 P G A ATGACGTGGCAGACGGGTGAAGAGTGAGGATY
91558 P A A CGCGCCGAGGAGGTGAAGAGTGAGGATGY
91558 T G A AAGGCATCCTCACTCTTCACCCGGTCCCTGCCAGCTGGCACTGGGG
91558 T A A AAGGCATCCTCACTCTTCACCTGGTCCCTGCCAGCTGGCACTGGGG
91558 IS [GA] GCAGATAACACTCTGCAGCACTCACAGATGTCTGTACCCCAGTGCCAGCTGGCAGGGAACC[GA]GGTGAAGAGTGAGGATGCCTTAGGGAACTCATGCCCACTCCAGAAGG CACCTCAAAGTCC ctg22fin4 22
91579 I S AGGCAAGCTGTAGAAGAATAGATTTCCTTGCCAAGCAGT
91579 P T S CGCGCCGAGGATAAGCTGCAGTCAGGCY
91579 P C S ATGACGTGGCAGACGTAAGCTGGAGTCAGGCY
91579 T T S CACTGCCTGACTCCAGCTTATCTGCTTCGCAAGAAATCTATTCTTCTCACAGCTTGCCTCT
91579 T C S CACTGCCTGACTCCAGCTTACCTGCTTCGCAAGAAATCTATTCTTCTCACAGCTTGCCTCT
91579 IS [TC] AAATTGGCACAGTTGCCTTAAATCACCACCGCATAGTCAGCACTGCCTGACTCCAGCTTA[TC]CTGCTTCGCAAGGAAATCTATTCTTCTACAGCTTGCCTCTGAGATGTA CTTCATCTGCAT ctg22fin4 22
91630 I S TGGCGTCCCGGGCCAGGCT
91630 P C S ATGACGTGGCAGACGTGCAGGAAGTTCTGCY
91630 P T S CGCGCCGAGGATGCAGGAAGTTCTGCY
91630 T C S GGACGCAGAACTTCCTGCAGCCCTGGCCCGGGACGCCACT
91630 T T S GGACGCAGAACTTCCTGCATGCCTGGCCCGGGACGCCACT
91630 IS [CT] GTCACTTAGGACCTGATTAATGAGTCACTGCACAGGCAAGAGGACGCAGAACTTCCTGCA[CT]GCCTGGCCCGGGACGCCACTTAGACACATGCCTGTGTTTTCACTG TGAGGTTTCTTAC ctg22fin4 22
91651 I A TCCTAAAGGAATAAATTTGTATCTGGTTGCCAGGACCTCCAT
91651 P A A CGCGCCGAGGATGATCTGAGTGTGGTTTTGY
91651 P G A ATGACGTGGCAGACGTGATCTGAGTGTGGTTTTY
91651 T A A ACAGCAAAACCACACTCAGATCATTGGAGGTCCTGGCAACCAGATACAAATTTATTCCTTTAGGAGC
91651 T G A ACAGCAAAACCACACTCAGATCACTGGAGGTCCTGGCAACCAGATACAAATTTATTCCTTTAGGAGC
91651 IS [AG] TCAACAGAAGCACAGGGCTCCTAAAGGAATAAATTTGTATCTGGTTGCCAGGACCTCCA[AG]TGATCTGAGTGTGGTTTTGCTGTCATCAAGAAGCTCGTTTTTCTCT CTTCCATTAGACT ctg22fin4 22
91698 I A CATTCAAACCTCACGGTTGTCATCCCATTGGTTGTTA
91698 P T A CGCGCCGAGGTTGCTTTCTGTATCCTTTACCY
91698 P C A ATGACGTGGCAGACCTGCTTTCTGTATCCTTTACCY
91698 T T A TGTAGGTAAAGGATACAGAAAGCAAAACAACCAATGGGATGACAACCGTGAGGTTTGAATGTC
91698 T C A TGTAGGTAAAGGATACAGAAAGCAGAACAACCAATGGGATGACAACCGTGAGGTTTGAATGTC
91698 IS [TC] CAGAGTGGCCTGGAATCTCATTGACATTCAAACCTCACGGTTGTCATCCCATTGGTTGTT[TC]TGCTTTCTCGTATCCTTTACCTACAACAGAGGAAAGTAAAAATCAGTA ACAGCTGATGAAA ctg22fin6 22
91729 I A ACAATACTATCAGATTTCACAGACCAAGGAAATTACTTATATTTTAATTTAACAAAACTCA
91729 P C A ATGACGTGGCAGACCGTAGGGACGTATGAGTATTAY
91729 P T A CGCGCCGAGGTGTAGGGACGTATGAGTATTAY
91729 T C A AATTTAATACTCATACGTCCCTACGGAGTTTTGTTAAATTAAAATATAAGTAATTTCCTTGGTCTGTGAAATCTGATAGTATTGT
91729 T T A AATTTAATACTCATACGTCCCTACAGAGTTTTGTTAAATTAAAATATAAGTAATTTCCTTGGTCTGTGAAATCTGATAGTATTGT
91729 IS [CT] ACAATACTATCAGATTTCACAGACCAAGGAAATTACTTATATTTTAATTTAACAAAACTC[CT]GTAGGGACGTATCAGTATTAAATTTACTGGTAGTTACAGATTTTTC TTGTAAACAGACGC ctg22fin7 22
91764 I A CCTGCTCTGTCGCAGGGGCAGGT
91764 P G A ATGACGTGGCAGACGCCATTTTCATCCAGTTCTGY
91764 P A A CGCGCCGAGGACCATTTTCATCCAGTTCTGY
91764 T G A ACATCAGAACTGGATGAAAATGGCCCTGCCCCTGCGACAGACGAGCAGGGC
91764 T A A ACATCAGAACTGGATGAAAATGGCCCTGCCCCTGCGACAGACGAGCAGGGC
91764 IS [GA] ACTGCAGGGACAAATAACAAGGCGCAAGCCAGAAGCGCCCTGCTCTGTCGCAGGGGCAGG[GA]CCATTTTCATCCAGTTCTGATGTCTTCTGTGGCCGCTGCGAGTCGGC GGGAGTAGAGACA ctg22fin4 22
91771 I A GCGGGCACGTTCTCCAGGACCTCAA
91771 P C A ATGACGTGGCAGACCGCAGGGAGAATGTACAY
91771 P T A CGGCCCGAGGTGCAGGGAGAATGTACAY

FIGURE 129C

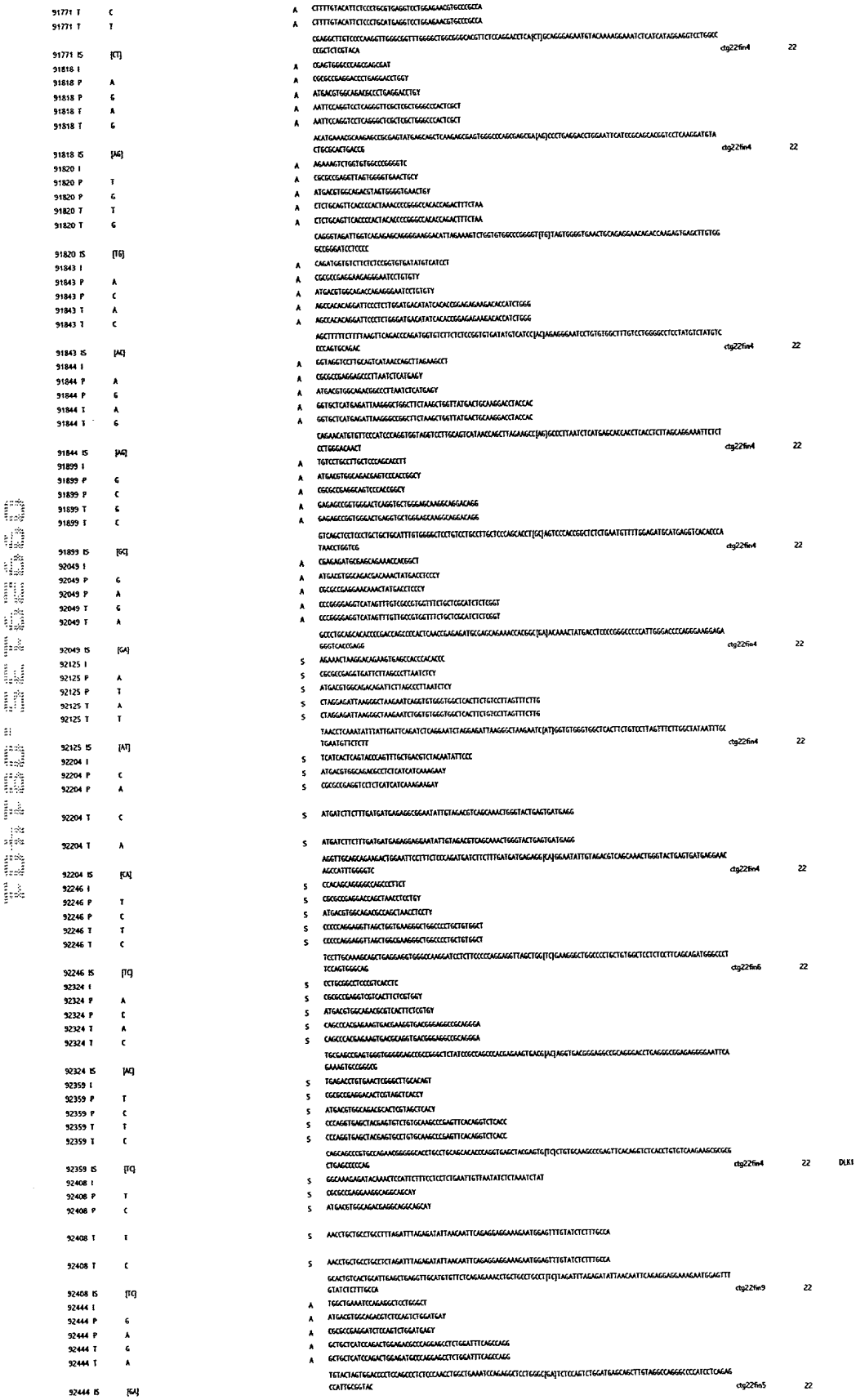


FIGURE 129C

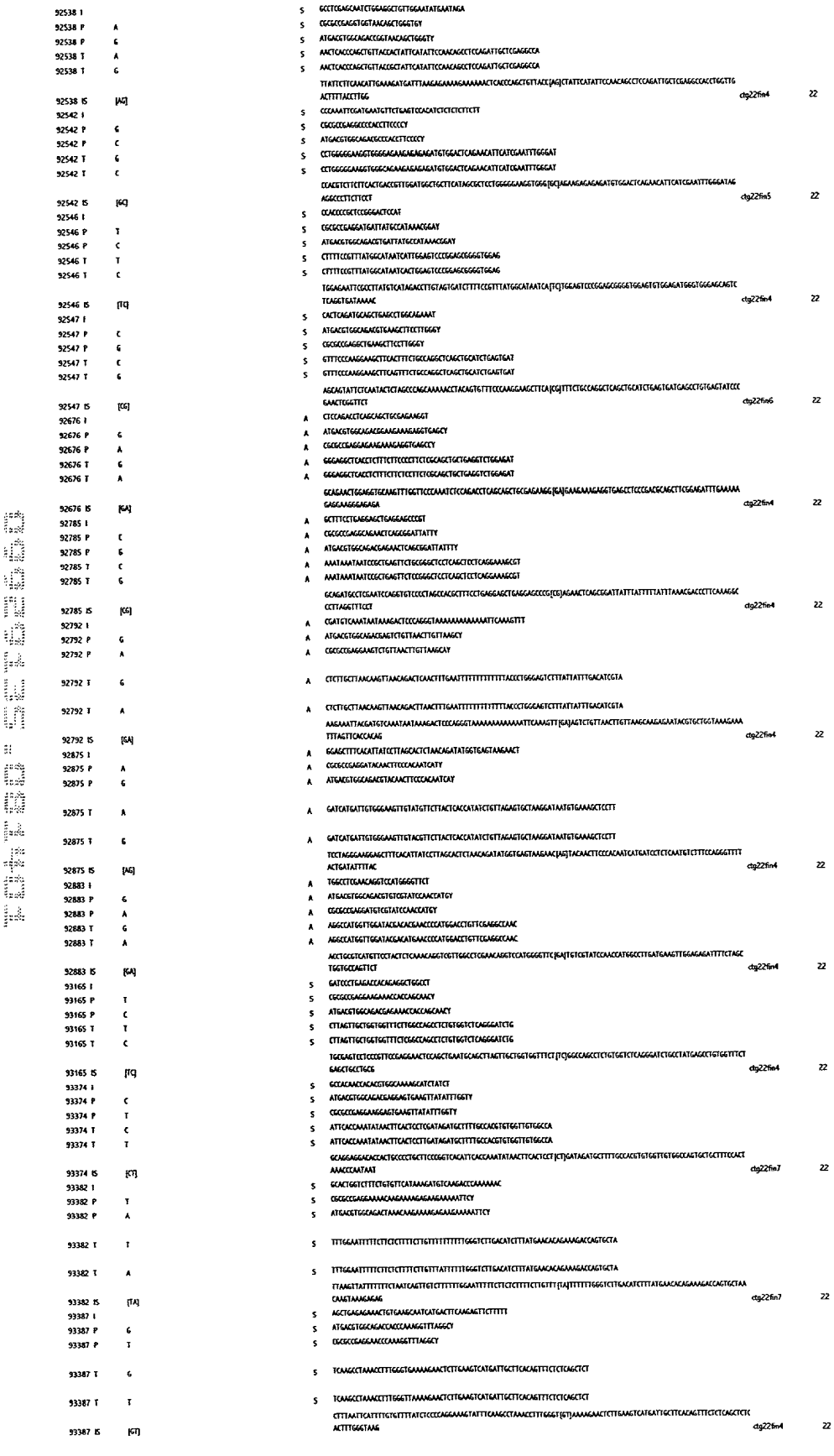


FIGURE 129C

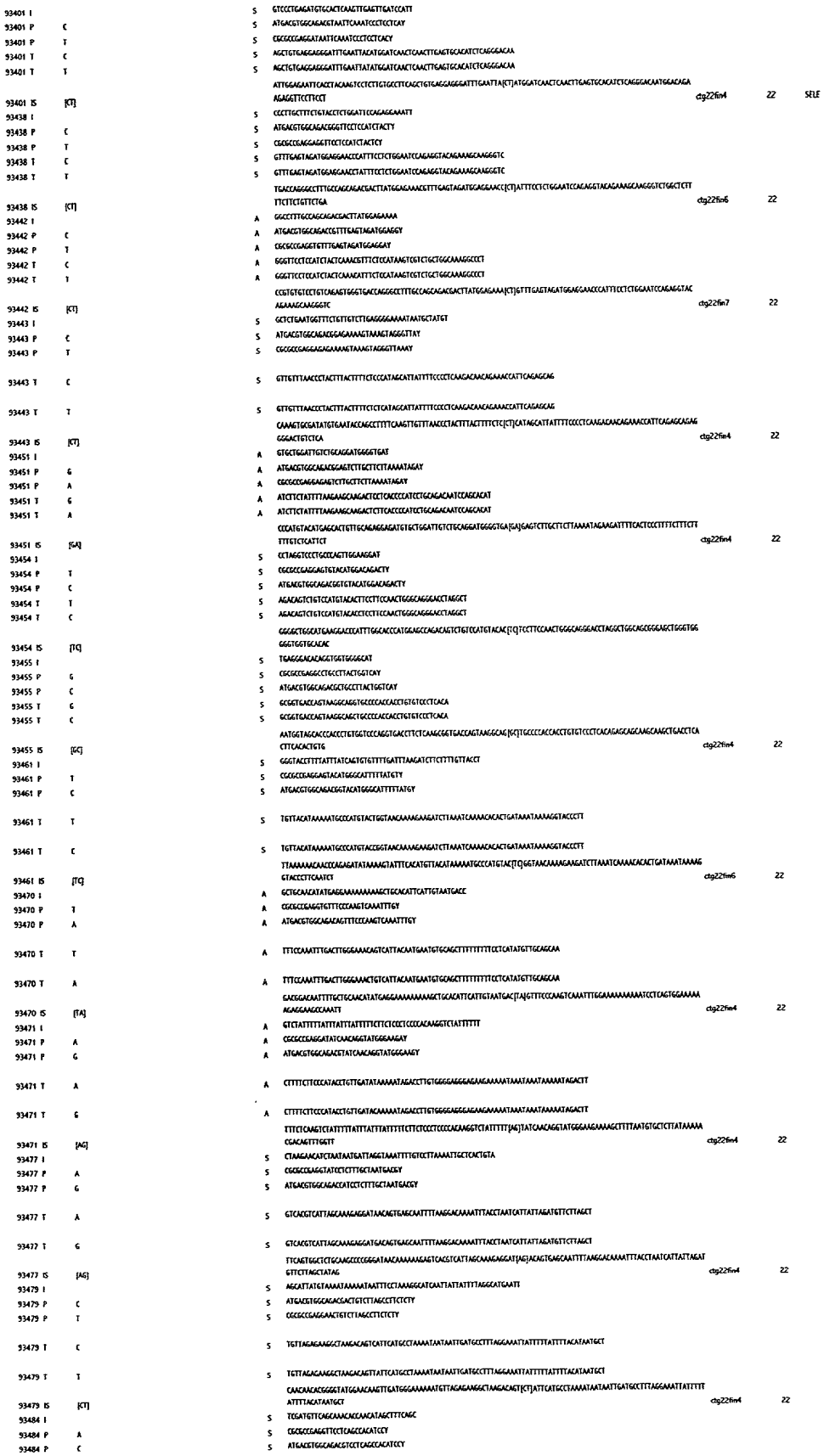
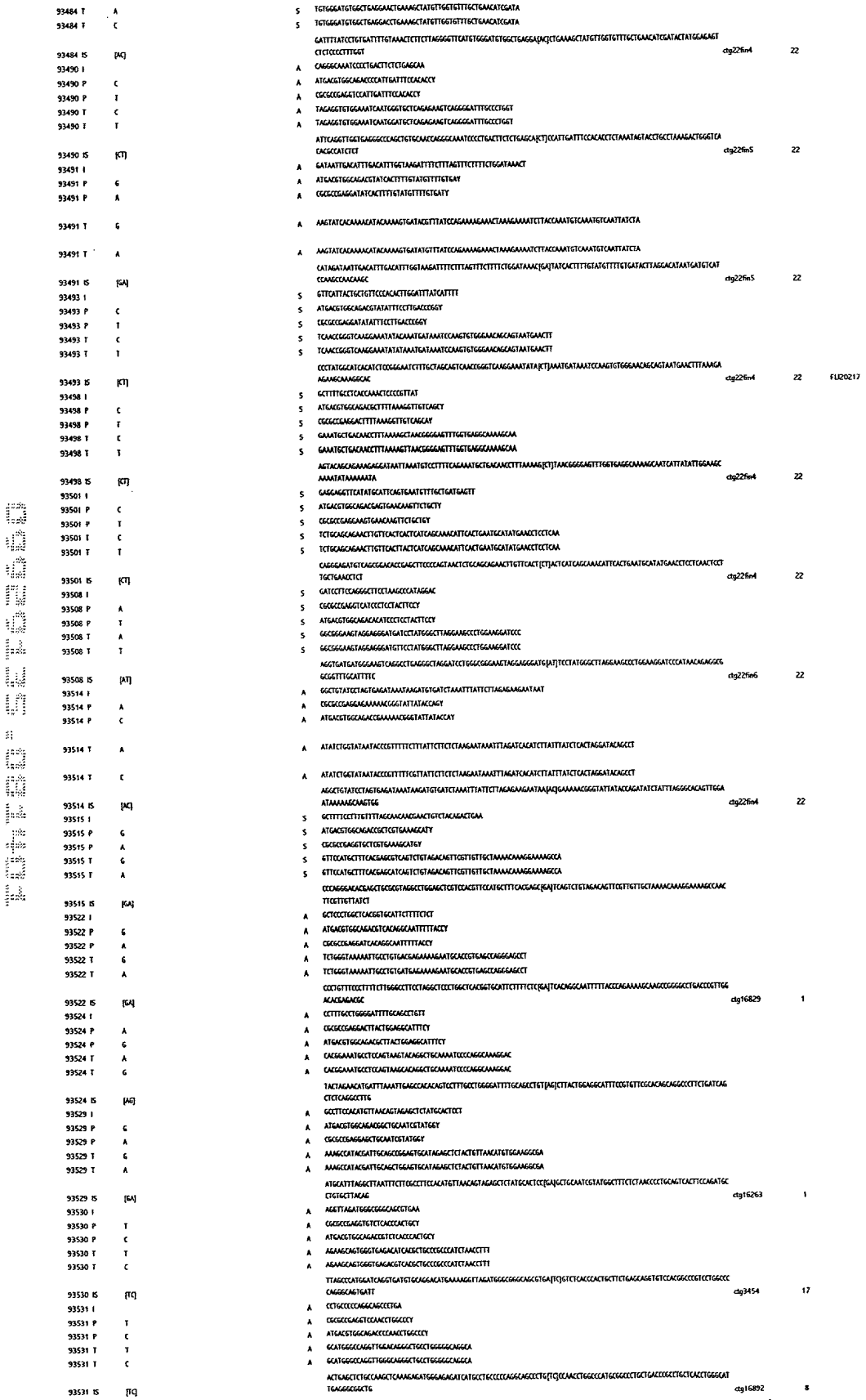


FIGURE 129C


93484 T A S TGTGGGATGTGGCTGAGGAACTGAAAGCTATGTTGGTGTTTGCTGAACATCGATA
93484 T C S TGTGGGATGTGGCTGAGGACCTGAAAGCTATGTTGGTGTTTGCTGAACATCGATA
93484 IS [AC] GATTTTATCCTGTGATTTTGTAAACTCTTCTTAGGGGTTCATGTGGGATGTGGCTGAGGA[AC]CTGAAAGCTATGTTGGTGTTTGCTGAACATCGATACTATGGAGAGT CTCTCCCCTTTGGT ctg22fin4 22
93490 I A CAGGGCAAATCCCCTGACTTCTCTGAGCAA
93490 P C A ATGACGTGGCAGACCCCATTGATTTCCCACACCY
93490 P T A CGCGCCGAGGTCCATTGATTTCCACACCY
93490 T C A TAGAGGTGTGGAAATCAATGGGTGCTCAGAGAAGTCAGGGGATTTGCCCTGGT
93490 T T A TAGAGGTGTGGAAATCAATGGATGCTCAGAGAAGTCAGGGGATTTGCCCTGGT
93490 IS [CT] ATTCAGGTTGGTGAGGGCCCAGCTGTGCAACCAGGGCAAATCCCCTGACTTCTCTGAGCA[CT]CCATTGATTTCCACACCTCTAAATAGTACCTGCCTAAAGACTGGGTCA CACGCCATCTCT ctg22fin5 22
93491 I A GATAATTGACATTTGACATTTGGTAAGATTTTCTTTAGTTTCTTTTCTGGATAAACT
93491 P G A ATGACGTGGCAGACGTATCACTTTTGTATGTTTTGTGAT
93491 P A A CGCGCCGAGGATATCACTTTTGTATGTTTTGTGATT
93491 T G A AAGTATCACAAAACATACAAAAGTGATACGTTTATCCAGAAAAGAAACTAAAGAAAATCTTACCAAATGTCAAATGTCAATTATCTA
93491 T A A AAGTATCACAAAACATACAAAAGTGATATGTTTATCCAGAAAAGAAACTAAAGAAAATCTTACCAAATGTCAAATGTCAATTATCTA
93491 IS [GA] CATAGATAATTGACATTTGACATTTGGTAAGATTTTCTTTAGTTTCTTTTCTGGATAAAC[GA]TATCACTTTTGTATGTTTTGTGATACTTAGGACATAATGATGTCAT CCAAGCCAACAAGC ctg22fin5 22
93493 I S GTTCATTACTGCTGTTCCCACACTTGGATTTATCATTTT
93493 P C S ATGACGTGGCAGACGTATATTTCCTTGACCCGGY
93493 P T S CGCGCCGAGGATATATTTCCTTGACCCGGY
93493 T C S TCAACCGGGTCAAGGAAATATACAAATGATAAATCCAAGTGTGGGAACAGCAGTAATGAACTT
93493 T T S TCAACCGGGTCAAGGAAATATATAAATGATAAATCCAAGTGTGGGAACAGCAGTAATGAACTT
93493 IS [CT] CCCTATGGCATCACATCTCCGGGAATCTTTGCTAGCAGTCAACCGGGTCAAGGAAATATA[CT]AAATGATAAATCCAAGTGTGGGAACAGCAGTAATGAACTTTAAAGA AGAAGCAAAGGCAC ctg22fin4 22 FLI20217
93498 I S GCTTTTGCCTCACCAAACTCCCCGTTAT
93498 P C S ATGACGTGGCAGACGCTTTTAAAGGTTGTCAGCY
93498 P T S CGCGCCGAGGACTTTTAAAGGTTGTCAGCAY
93498 T C S GAAATGCTGACAACCTTAAAAGCTAACGGGGAGTTTGGTGAGGCAAAGCAA
93498 T T S GAAATGCTGACAACCTTAAAAGTTAACGGGGAGTTTGGTGAGGCAAAGCAA
93498 IS [CT] AGTACAGCAGAAAGAGGATAATTAAATGTCCTTTTCAGAAATGCTGACAACCTTTAAAAG[CT]TAACGGGGAGTTTGGTGAGGCAAAGCAATCATTATATTGGAAGC AAAATATAAAAAATA ctg22fin4 22
93501 I S GAGCAGGTTCATATGCATTCAGTGAATGTTTGCTGATGAGTT
93501 P C S ATGACGTGGCAGACGAGTGAACAAGTTCTGCTY
93501 P T S CGCGCCGAGGAAGTGAACAAGTTCTGCTGY
93501 T C S TCTGCAGCAGAACTGTTCACTCATCATCAGCAAACATTCACTGAATGCATATGAACCTCCTCAA
93501 T T S TCTGCAGCAGAACTGTTCACTCATCATCAGCAAACATTCACTGAATGCATATGAACCTCCTCAA
93501 IS [CT] CAGGGAGATGTCAGCGGACACCGAGCTTCCCCAGTAACTCTGCAGCAGAACTGTTCACT[CT]ACTCATCAGCAAACATTCACTGAATGCATATGAACCTCCTCAACTCCT TGCTGAACCTCT ctg22fin4 22
93508 I S GATCCTTCCAGGGCTTCCTAAGCCCATAGGAC
93508 P A S CGGCCGAGGTCATCCCTCCTACTTCCY
93508 P T S ATGACGTGGCAGACACATCCCTCCTACTTCCY
93508 T A S GGCGGGAAGTAGGAGGGATGTCCTATGGGCTTAGGAAGCCCTGGAAGGATCCC
93508 T T S GGCGGGAAGTAGGAGGGATGTTCCTATGGGCTTAGGAAGCCCTGGAAGGATCCC
93508 IS [AT] AGGTGATGATGGGAAGTCAGGCCTAGGGCCTAGGATCCTGGGCGGGAAGTAGGAGGGATG[AT]TCCTATGGGCTTAGGAAGCCCTGGAAGGATCCCATAACAGAGGCG GCGGTTTGCATTTTC ctg22fin6 22
93514 I A GGCTGTATCCTAGTGAGATAAATAAGATGTGATCTAAATTTATTCTTAGAGAAGAATAAT
93514 P A A CGCGCCGAGGAGAAAAACGGGTATTATACCAGY
93514 P C A ATGACGTGGCAGACCGAAAAACGGGTATTATACCAY
93514 T A A ATATCTGGTATAATACCCGTTTTTCTTTATTCTTCTCTAAGAATAAATTTAGATCACATCTTATTTATCTCACTAGGATACAGCCT
93514 T C A ATATCTGGTATAATACCCGTTTTTCGTTATTCTTCTCTAAGAATAAATTTAGATCACATCTTATTTATCTCACTAGGATACAGCCT
93514 IS [AC] AGGCTGTATCCTAGTGAGATAAATAAGATGTGATCTAAATTTATTCTTAGAGAAGAATAA[AC]GAAAAACGGGTATTATACCAGATATCTATTTAGGGCACAGTTGGA ATAAAAAGCAAGTGG ctg22fin4 22
93515 I S GCTTTTCCTTTGTTTTAGCAACAACGAACTGTCTACAGACTGAA
93515 P G S ATGACGTGGCAGACCGCTCGTGAAAGCATY
93515 P A S CGCGCCGAGGTGCTCGTGAAAGCATGY
93515 T G S GTTCCATGCTTTCACGAGCGTCAGTCTGTAGACAGTTCGTTGTTGCTAAAACAAAGGAAAAGCCA
93515 T A S GTTCCATGCTTTCACGAGCATCAGTCTGTAGACAGTTCGTTGTTGCTAAAACAAAGGAAAAGCCA
93515 IS [GA] CCCAGGGACACGAGCTGCGCGTAGGCCTGGAGCTCGTCCACGTTCCATGCTTTCACGAGC[GA]TCAGTCTGTAGACAGTTCGTTGTTGCTAAAACAAAGGAAAAGCCAAC TTCGTTGTTATCT ctg16829 1
93522 I A GCTCCCTGGCTCACGGTGCATTCTTTTCTCT
93522 P G A ATGACGTGGCAGACGTCACAGGCAATTTTTACCY
93522 P A A CGCGCCGAGGATCACAGGCAATTTTTACCY
93522 T G A TCTGGGTAAAAATTGCCTGTGACAGAAAAGAATGCACCGTGAGCCAGGGAGCCT
93522 T A A TCTGGGTAAAAATTGCCTGTGATGAGAAAAGAATGCACCGTGAGCCAGGGAGCCT
93522 IS [GA] CCCTGTTTCCCTTTTCTTGGGCCTCCTAGGCTCCCTGGCTCACGGTGCATTCTTTTCTC[GA]TCACAGGCAATTTTTACCCAGAAAAGCAAGCGGGGGCCTGACCCGTTGG ACACAGACGC ctg16829 1
93524 I A CCTTTGCCTGGGGATTTTGCAGCCTGTT
93524 P A A CGCGCCGAGGACTTACTGGAGGCATTTCY
93524 P G A ATGACGTGGCAGACGCTTACTGGAGGCATTTCY
93524 T A A CACGGAAATGCCTCCAGTAAGTACAGGCTGCAAAATCCCCAGGCAAAGGAC
93524 T G A CACGGAAATGCCTCCAGTAAGCACAGGCTGCAAAATCCCCAGGCAAAGGAC
93524 IS [AG] TACTAGAAACATGATTTAAATTGAGCCACACAGTCCTTTGCCTGGGGATTTTGCAGCCTGT[AG]CTTACTGGAGGCATTTCCGTGTTCGCACAGCAGGCCCTTCTGATCAG CTCTCAGGCCTTG ctg16263 1
93529 I A GCCTTCCACATGTTAACAGTAGAGCTCTATGCACTCCT
93529 P G A ATGACGTGGCAGACGGCTGCAATCGTATGGY
93529 P A A CGCGCCGAGGAGCTGCAATCGTATGGY
93529 T G A AAAGCCATACGATTGCAGCCGGAGTGCATAGAGCTCTACTGTTAACATGTGGAAGCGSA
93529 T A A AAAGCCATACGATTGCAGCTGGAGTGCATAGAGCTCTACTGTTAACATGTGGAAGCGSA
93529 IS [GA] ATGCATTTAGGCTTAATTTCTTCGCCTTCCACATGTTAACAGTAGAGCTCTATGCACTCC[GA]GCTGCAATCGTATGGCTTTCTCTAACCCCTGCAGTCACTTCCAGATGC CTGTGCTTACAG ctg16263 1
93530 I A AGGTTAGATGGGCGGGCAGCGTGAA
93530 P T A CGCGCCGAGGTGTCTCACCCACTGCY
93530 P C A ATGACGTGGCAGACGTCTCTCACCCACTGCY
93530 T T A AGAAGCAGTGGGTGAGACATCACGCTGCCCGCCCATCTAACCTTT
93530 T C A AGAAGCAGTGGGTGAGACGTCACGCTGCCCGCCCATCTAACCTTT
93530 IS [TC] TTAGCCCATGGATCAGGTGATGTGCAGGACATGAAAAGGTTAGATGGGCGGGCAGCGTGA[TC]GTCTCACCCACTGCTTCTGAGCAGGTGTCCACGGCCCGTCCTGGCCC CAGGGCAGTGATT ctg3454 17
93531 I A CCTGCCCCAGGCAGCCCTGA
93531 P T A CGCGCCGAGGTCCAACCTGGCCCY
93531 P C A ATGACGTGGCAGACCCCAACCTGGCCCY
93531 T T A GCATGGGCCAGGTTGGACAGGGCTGCCTGGGGGCAGGCA
93531 T C A GCATGGGCCAGGTTGGGCAGGGCTGCCTGGGGGCAGGCA
93531 IS [TC] ACTGAGCTCTGCCAAGCTCAAAGAGATGGGAGAGATCATGCCTGCCCCCAGGCAGCCCTG[TC]CCAACCTGGCCCATGCGGCCCTGCTGACCCGCCTGCTCACCTGGGCAT TGAGGCGGCTG ctg16892 8

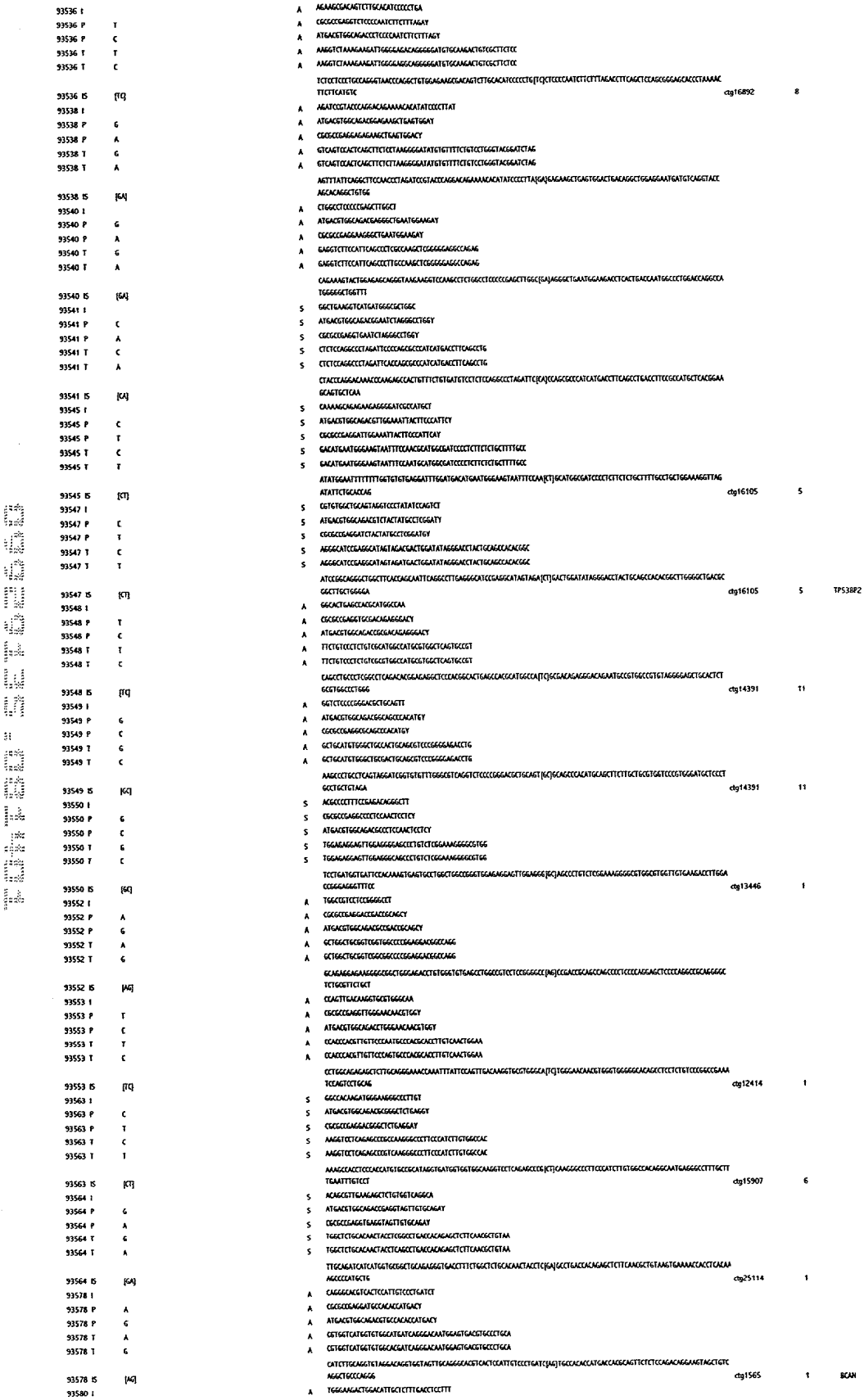

93536 I A AGAAGGCAGAGTCTTGCACATCCCCCTGA
93536 P T A CGCGCCCAGGTCTCCCCAATCTTCTTTAGAY
93536 P C A ATGACGTGGCAGACCCTCCCCAATCTTCTTTAGY
93536 T T A AAGGTCTAAAGAAGATTGGGCAGACAGGGGGATGTGCAAGACTGTCGCTTCTCC
93536 T C A AAGGTCTAAAGAAGATTGGGCAGGCAGGGGGATGTGCAAGACTGTCGCTTCTCC
93536 IS [TC] TCTCCTCCCTGCCAGGGTAACCCAGGCTGTGGAGAAGCACAGTCTTGCACATCCCCCTG[T/C]CTCCCCAATCTTCTTTAGACCTTCAGCTCCAGCGGGAGCACCCTAAAAC TTCTTCATGTC ctg16892 8
93538 I A AGATCCGTACCCAGGACAGAAAACACATATCCCCTTAT
93538 P G A ATGACGTGGCAGACGGAGAAGCTGAGTGGAY
93538 P A A CGGCCCGAGGACAGAAGCTGAGTGGACY
93538 T G A GTCAGTCCACTCAGCTTCTCTTAAGGGGATATGTGTTTTCTGTCCTGGGTACGGATCTAG
93538 T A A GTCAGTCCACTCAGCTTCTCTTAAGGGGATATGTGTTTTCTGTCCTGGGTACGGATCTAG
93538 IS [GA] AGTTTATTCAGGCTTCCAACCCTAGATCCGTACCCAGGACAGAAAACACATATCCCCTTA[G/A]GAGAAGCTGAGTGGACTGACAGGCTGGAGGAATGATGTCAGGTACC AGCACAGGCTGTGG
93540 I A CTGGCCTCCCCCGAGCTTGGCT
93540 P G A ATGACGTGGCAGACGAGGGCTGAATGGAAGAY
93540 P A A CGCGCCGAGGAAGGGCTGAATGGAAGAY
93540 T G A GAGGTCTTCCATTCAGCCCTCGCCAAGCTCGGGGGAGGCCAGAG
93540 T A A GAGGTCTTCCATTCAGCCCTTGCCAAGCTCGGGGGAGGCCAGAG
93540 IS [GA] CAGAAAGTACTGCAGAGCAGGGTAAGAAGGTCCAAGCCTCTGGCCTCCCCCGAGCTTGGC[G/A]AGGGCTGAATGGAAGACCTCACTGACCAATGGCCCTGGACCAGGCCA TGGGGGCTGGTTT
93541 I S GGCTGAAGGTCATGATGGGCGCTGGC
93541 P C S ATGACGTGGCAGACGGAATCTAGGGCCTGGY
93541 P A S CGCGCCGAGGTGAATCTAGGGCCTGGY
93541 T C S CTCTCCAGGCCCTAGATTCCCCAGCGCCATCATGACCTTCAGCCTG
93541 T A S CTCTCCAGGCCCTAGATTCACCAGCGCCCATCATGACCTTCAGCCTG
93541 IS [CA] CTACCCAGGACAAACCCAAGAGCCACTGTTTCTGTGATGTCCTCTCCAGGCCCTAGATTC[C/A]CCAGCGCCCATCATGACCTTCAGCCTGACCTTCCGCCATGCTCACGGAA GCAGTGCTCAA
93545 I S CAAAAGCAGAGAAGAGGGGATCGCCATGCT
93545 P C S ATGACGTGGCAGACGGAATCTAGGGCCTGGY
93545 P T S CGCGCCGAGGATTGGAAATTACTTCCCATTCY
93545 T C S GACATGAATGGGAAGTAATTTCCAACGCATGGGGATCCCCCTCTTCTCTGCTTTTGCC
93545 T T S GACATGAATGGGAAGTAATTTCCAATGCATGGCGATCCCCCTCTTCTCTGCTTTTGCC
93545 IS [CT] ATATGGAATTTTTTTTGGTTGTGTGAGGATTTGGATGACATGAATGGGAAGTAATTTCCAAA[C/T]GCATGGCGATCCCCTCTTCTCTGCTTTTGCCTGCTGGAAAGGTTAG ATATTCTGCACCAG ctg16105 5
93547 I S CGTGTGGCTGCAGTAGGTCCCTATATCCAGTCT
93547 P C S ATGACGTGGCAGACGTCTACTATGCCTGGGATY
93547 P T S CGCGCCGAGGATCTACTATGCCTGGGATGY
93547 T C S AGGGCATCCGAGGCATAGTAGACGACTGGATATAGGGAACCTACTGCAGCCACACGGC
93547 T T S AGGGCATCCGAGGCATAGTAGATGACTGGATATAGGGAACCTACTGCAGCCACACGGC
93547 IS [CT] ATCGGCAGGGCTGGCTTCACCAGCAATTCAGGCCTTGAGGGCATCCGAGGCATAGTAGA[C/T]GACTGGATATAGGGACCTACTGCAGCCACACGGCTTGGGGCTGACGC GGCTTGCTGGGGA ctg16105 5 TPS38P2
93548 I A GGCACTGAGCTACGCATGGCCAA
93548 P T A CGCGCCGAGGTGCGACAGAGGGACY
93548 P C A ATGACGTGGCAGACCGCGACAGAGGGACY
93548 T T A TTCTGTCCCTCTGTCGCATGGCCATGCGTGGCTCAGTGCCGT
93548 T C A TTCTGTCCCTCTGTCGCGTGGCCATGCGTGGCTCAGTGCCGT
93548 IS [TC] CAGCCTGCCCTCGGCCTCAGACACGGAAGAGGCTCCCACGGCACTGAGCCACCGCATGGCCA[T/C]GCGACAGAGGCACAGAATGCCGTGGCCGTGTAGGGGAGCTGCACTCT GCGTGGCCCTGGG ctg14391 11
93549 I A GGTCTCCCCCGGACGCTGCAGTT
93549 P G A ATGACGTGGCAGACGGCAGCCCACATGY
93549 P C A CGCGCCGAGGGCAGCCCACATGY
93549 T G A GCTGCATGTGGGCTGCCACTGCAGGGTCCCGGGGAGACCTG
93549 T C A GCTGCATGTGGGCTGCGACTGCAGCGTCCCGGGGAGACCTG
93549 IS [GC] AAGCCCTGCCTCAGTAGGATCGGTGTGTTTGGGCGTCAGGTCTCCCCGGGACGCTGCAGT[G/C]GCAGCCCACATGCAGCTTCTTGCTGCGTGGTCCCGTGGGATGCTCCCT GCCTGCTGTAGA ctg14391 11
93550 I S ACGCCCCTTTCCGAGACAGGGCTT
93550 P G S CGCGCCGAGGCCCCTCCAACTCCTCY
93550 P C S ATGACGTGGCAGACGCCCTCCAACTCCTCY
93550 T G S TGGAGAGGAGTTGGAGGGGAGCCCTGTCTCGGAAAGGGGCGTGG
93550 T C S TGGAGAGGAGTTGGAGGGCAGCCCTGTCTCGGAAAGGGGCGTGG
93550 IS [GC] TCCTGATGGTGATTCCACAAAGTGAGTGCCTGGCTGGCCGGGTGGAGAGGAGTTGGAGGG[G/C]AGCCCTGTCTCGGAAAGGGGCGTGGCGTGGTTGTGAAGACCTTGGA CCGGGAGGGTTTCC ctg13446 1
93552 I A TGGCCGTCCTCCGGGGCCT
93552 P A A CGCGCCGAGGACCGACCGCAGCY
93552 P G A ATGACGTGGCAGACGCCGACCGCAGCY
93552 T A A GCTGGCTGCGGTCGGTGGCCCCGGAGGACGCCAGG
93552 T G A GCTGGCTGCGGTCGGCGGCCCCGGAGGACGCCAGG
93552 IS [AG] GCAGAGGAGAAGGGGCGGCTGGCAGACCTGTGGGTGTGAGCCTGGGCGTCCTCCGGGGCC[A/G]CGGACCGCAGCCAGCCCCTCCCCAGGAGCTCCCCAGGCCGCAGGGGC TCTGCGTTCTGCT
93553 I A CCAGTTGACAAGGTGCGTGGGCAA
93553 P T A CGCGCCGAGGTTGGGAACAACGTGGY
93553 P C A ATGACGTGGCAGACCTGGGAACAACGTGGY
93553 T T A CCACCCACGTTGTTCCCAATGCCCACGCACCTTGTCAACTGGAA
93553 T C A CCACCCACGTTGTTCCCAGTGCCCACGCACCTTGTCAACTGGAA
93553 IS [TC] CCTGGCAGACAGCTCTTGCAGGGAAACCAAATTTATTCCAGTTGACAAGGTGCGTGGGCA[T/C]TGGGAACAACGTGGGTGGGGGCACAGCCTCCTCTGTCCCGGCCGAAA TCCAGTCCTGCAG ctg12414 1
93563 I S GGCCACAGATGGGAAGGCCCTTGT
93563 P C S ATGACGTGGCAGACGCGGGCTCTGAGGY
93563 P T S CGCGCCGAGGACGGGCTCTGAGGAY
93563 T C S AAGGTCCTCAGAGCCCGCCAAGGGCCCTTCCCATCTTGTGGCCAC
93563 T T S AAGGTCCTCAGAGCCCGTCAAGGGCCCTTCCCATCTTGTGGCCAC
93563 IS [CT] AAAGCCACCTCCCACCATGTGCCGCATAGGTGATGGTGGTGGCAAGGTCCTCAGAGCCCG[C/T]CAAGGGCCCTTCCCATCTTGTGGCCCACAGGCAATGAGGGCCTTTGCTT TGAATTGTCCT ctg15907 6
93564 I S ACAGCGTTGAAGAGCTCTGTGGTCAGGCA
93564 P G S ATGACGTGGCAGACCGAGGTAGTTGTGCAGAY
93564 P A S CGCGCCGAGGTGAGGTAGTTGTGCAGAY
93564 T G S TGGCTCTGCACAACTACCTCGGCCTGACCACAGAGCTCTTCAAGCGTGTAA
93564 T A S TGGCTCTGCACAACTACCTCAGCCTGACCACAGAGCTCTTCAAGCGTGTAA
93564 IS [GA] TTGCAGATCATCATGGTGGGGCTGCAGAGGGTGACCTTCTGGCTCTGCACAACTACCTC[G/A]GCCTGACCACAGAGCTCTTCAAGCGTGTAAGTGAAAACCACCTCACAA AGCCCCATGCTG ctg25114 1
93578 I A CAGGGCACGTCACTCCATTGTCCCTGATCT
93578 P A A CGCGCCGAGGATGCCACACCATGACY
93578 P G A ATGACGTGGCAGACGTGCCACACCATGACY
93578 T A A CGTGGTCATGGTGTGGCATGATCAGGGACAATGGAGTGACGTGCCCTGCA
93578 T G A CGTGGTCATGGTGTGGCACGATCAGGGACAATGGAGTGACGTGCCCTGCA
93578 IS [AG] CATCTTGCAGGTGTAGGACAGGTGGTAGTTGCAGGGCACGTCACTCCATTGTCCCTGATC[A/G]TGCCACACCATGACCACGCAGTTCTCTCCAGACAGGAAGTAGCTGTC AGGCTGCCCAGGG ctg1565 1 BCAN
93580 I A TGGGAAGACTGGACATTGCTCTTTGACCTCCTTT

FIGURE 129C

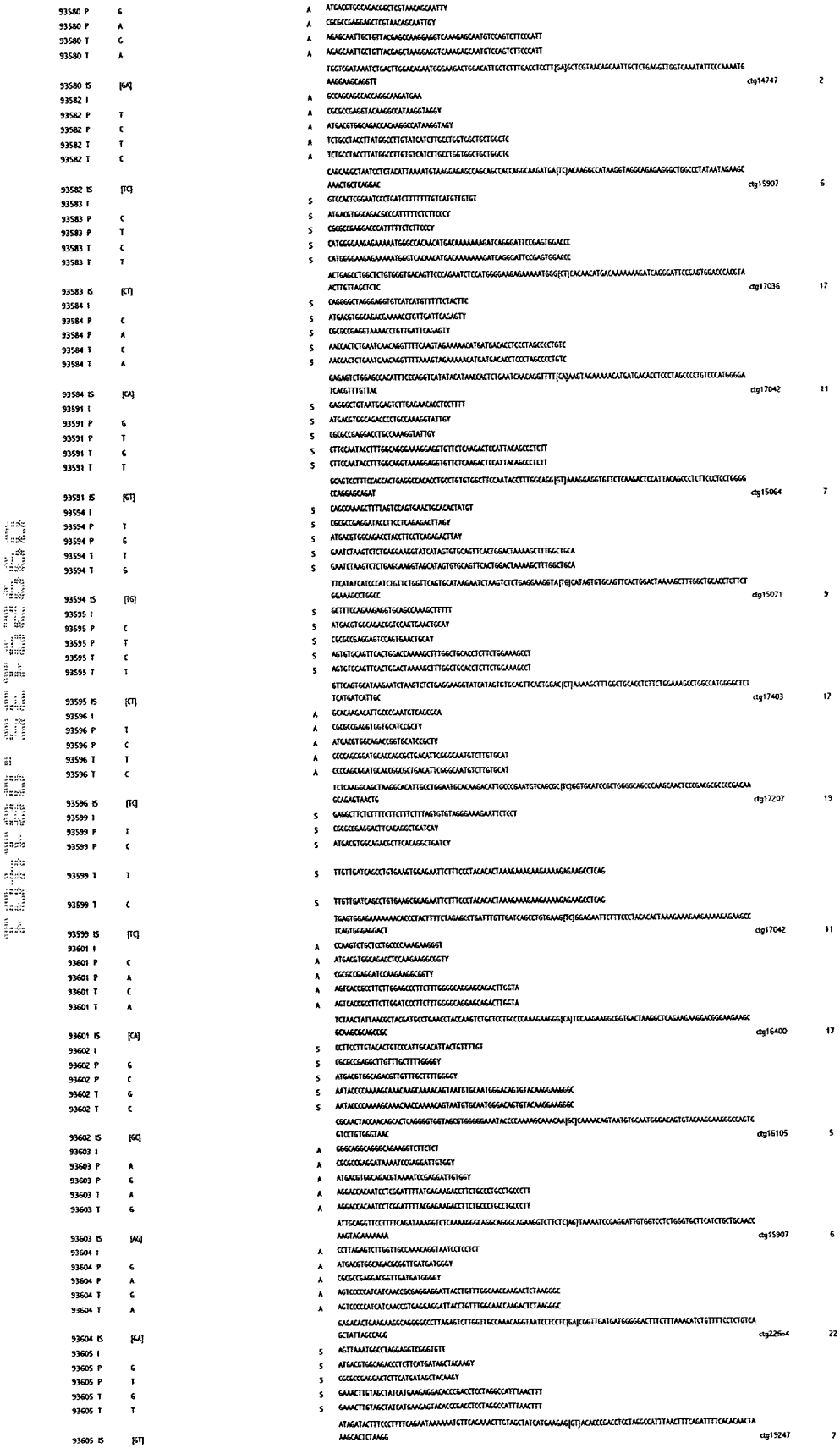


FIGURE 129C

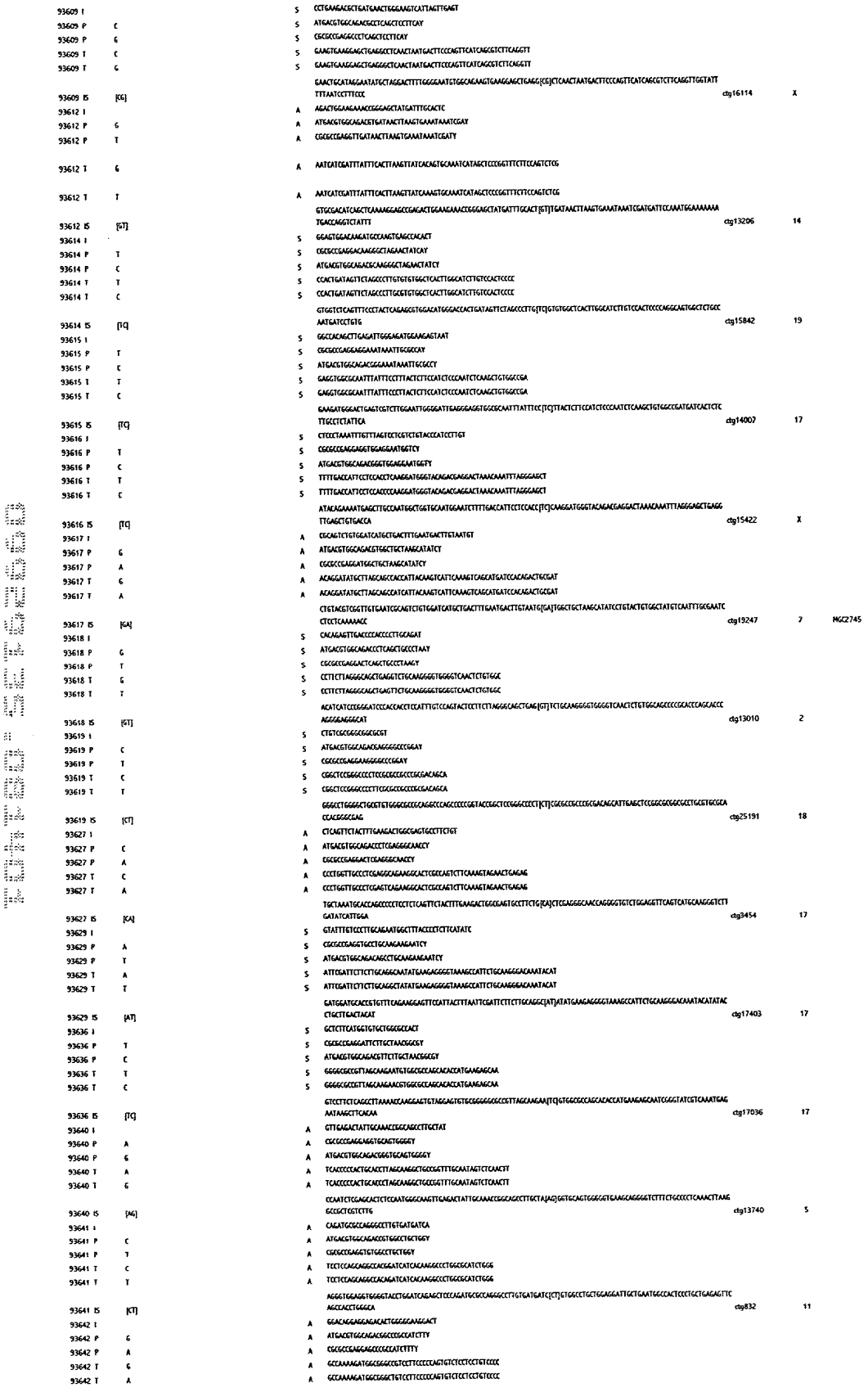

93609 1 S CCTGAAGACGCTGATGAACTGGGAAGTCATTAGTTGAGT
93609 P C S ATGACGTGGCAGACGCCTCAGCTCCTTCAY
93609 P G S CGCGCCGAGGCCCTCAGCTCCTTCAY
93609 T C S GAAGTGAAGGAGCTGAGGCCTCAACTAATGACTTCCCAGTTCATCAGCGTCTTCAGGTT
93609 T G S GAAGTGAAGGAGCTGAGGGCTCAACTAATGACTTCCCAGTTCATCAGCGTCTTCAGGTT
93609 IS [CG] GAACTGCATAGGAATATGCTAGGACTTTTGGGGAATGTGGCAGAAGTGAAGGAGCTGAGG[CG]CTCAACTAATGACTTCCCAGTTCATCAGCGTCTTCAGGTTGGTATT TTTAATCCTTTCCC ctg16114 X
93612 1 A AGACTGGAAGAAACCGGGAGCTATGATTTGCACTC
93612 P G A ATGACGTGGCAGACGTGATAACTTAAGTGAAATAAATCGAY
93612 P T A CGCGCCGAGGTTGATAACTTAAGTGAAATAAATCGATY
93612 T G A AATCATCGATTTATTTCACTTAAGTTATCAACAGTGCAAATCATAGCTCCCGGTTTCTTCCAGTCTCG
93612 T T A AATCATCGATTTATTTCACTTAAGTTATCAAAGTGCAAATCATAGCTCCCGGTTTCTTCCAGTCTCG
93612 IS [GT] GTGCCACATCAGCTCAAAAGGAGCCGAGACTGGAAGAAACCGGGAGCTATGATTTGCACT[GT]TGATAACTTAAGTGAAATAAATCGATGATTCCAAATGGAAAAAAA TGACCAGGTCTATTT ctg13206 14
93614 1 S GGAGTGGACAAGATGCCAAGTGAGCCACACT
93614 P T S CGCGCCGAGGACAAGGCTAGAACTATCAY
93614 P C S ATGAGGTGGCAGACGCAAGGGCTAGAACTATCY
93614 T T S CCACTGATAGTCTAGCCCTTGTGTGTGGCTCACTTGGCATCTTGTCCACTCCCC
93614 T C S CCACTGATAGTTCTAGCCCTTGCGTGTGGCTCACTTGGCATCTTGTCCACTCCCC
93614 IS [TC] GTGGTCTCAGTTTCCCTACTCAGAGCGTGGACATGGGACCACTGATAGTTCTAGCCCTTG[TC]GTGTGGCTCACTTGGCATCTTGTCCACTCCCCAGGCAGTGGCTCTGCC AATGATCCTGTG ctg15842 19
93615 1 S GGCCACAGCTTCAGATTGGGAGATGGAAGAGTAAT
93615 P T S CGCGCCGAGGAGGAAATAAATTGCGCCAY
93615 P C S ATGACGTGGCAGACGGGAAATAAATTGCGCCY
93615 T T S GAGGTGGCGCAATTTATTTCCTTACTCTTCCATCTCCCAATCTCAAGCTGTGGCCGA
93615 T C S GAGGTGGCGCAATTTATTTCCCTTACTCTTCCATCTCCCAATCTCAAGCTGTGGCCGA
93615 IS [TC] GAAGATGGGACTGAGTCGTCTTGGAATTGGGGATTGAGGGAGGTGGCGCAATTTATTTCC[TC]TTACTCTTCCATCTCCCAATCTCAAGCTGTGGCCGATGATCACTCTC TTGCCTCTATTCA ctg14007 17
93616 1 S CTCCCTAAATTTGTTTAGTCCTCGTCTGTACCCATCCTTGT
93616 P T S CGCGCCGCAGGAGGTGGAGGAATGGTCY
93616 P C S ATGACGTGGCAGACGGGTGGAGGAATGGTY
93616 T T S TTTTGACCATTCCTCCACCTCAAGGATGGGTACAGACGAGGACTAAACAAATTTAGGGAGCT
93616 T C S TTTTGACCATTCCTCCACCCAAGGATGGGTACAGACGAGGACTAAACAAATTTAGGGAGCT
93616 IS [TC] ATACAGAAAATGAGCTTGCCAATGGCTGGTGCAATGGAATCTTTTGACCATTCCTCCACC[TC]CAAGGATGGGTACAGACGAGGACTAAACAAATTTAGGGAGCTGAGG TTGAGCTGTGACCA ctg15422 X
93617 1 A CGCAGTCTGTGGATCATGCTGACTTTGAATGACTTGTAATGT
93617 P G A ATGACGTGGCAGACGTGGCTGCTAAGCATATCY
93617 P A A CGCGCCGAGGATGGCTGCTAAGCATATCY
93617 T G A ACAGGATATGCTTAGCAGCCACCATTACAAGTCATTCAAAGTCAGCATGATCCACAGACTGCGAT
93617 T A A ACAGGATATGCTTAGCAGCCATCATTACAAGTCATTCAAAGTCAGCATGATCCACAGACTGCGAT
93617 IS [GA] CTGTACGTCGGTTGTGAATCGCAGTCTGTGGATCATGCTGACTTTGAATGACTTGTAATG[GA]TGGCTGCTAAGCATATCCTGTACTGTGGCTATGTCAATTTGCGAATC CTCCTCAAAAACC ctg15247 7 MGC2745
93618 1 S CACAGAGTTGACCCCACCCCTTGCAGAT
93618 P G S ATGACGTGGCAGACCCTCAGCTGCCCTAAY
93618 P T S CGCGCCCAGGACTCAGCTGCCCTAAGY
93618 T G S CCTTCTTAGGGCAGCTGAGGTCTGCAAGGGGTGGGGTCAACTCTGTGGC
93618 T T S CCTTCTTAGGGCAGCTGAGTTCTGCAAGGGGTGGGGTCAACTCTGTGGC
93618 IS [GT] ACATCATCCCGGGATCCCACACCCTCCATTTGTCCCAGTACTCCTTCTTAGGGCAGCTGAG[GT]TCTGCAAGGGGTGGGGTCAACTCTGTGGCAGCCCCGCACCCAGCACCC AGGGAAGGCCAT ctg13010 2
93619 1 S CTGTCGCCGGCGGCGGCGT
93619 P C S ATGACGTGGCAGACGAGGGGCCCGGAY
93619 P T S CGCGCCGAGGAAGGGGCCCGGAY
93619 T C S CGGCTCCGGGCCCCTCCCGCCGCCCCCGCGACAGCA
93619 T T S CGGCTCCGGGCCCCTCCCGCCGCCCCCGCGACAGCA
93619 IS [CT] GGGCCTGGGGCTGCGTGTGGGCGCCGCAGGCCCAGCCCCCCGGTACCGGCTCCGGGCCCCT[CT]CGCGCCGCCCGCGACAGCATTGAGCTCCGGCGGGGCGCCTCGCGTGCGCA CCACGGCCGAG ctg25191 18
93627 1 A CTCAGTTCTACTTTGAAGACTGGCGAGTGCCTTCTGT
93627 P C A ATGACGTGGCAGACCCTCGAGGGCAACCY
93627 P A A CGCGCCGAGGACTCGAGGGCAACCY
93627 T C A CCCTGGTTGCCCTCGAGGCAGAAGGCACTCGCCAGTCTTCAAAGTAGAACTGAGAG
93627 T A A CCCTGGTTGCCCTCGAGTCAGAAGGCACTCGCCAGTCTTCAAAGTAGAACTGAGAG
93627 IS [CA] TGCTAAATGCACCAGCCCCCTCCTCTCAGTTCTACTTTGAAGACTGGCGAGTGCCTTCTG[CA]CTCGAGGGCAACCAGGGGTGTCTGGAGGTTCAGTCATGCAAGGGTCTT GATATCATTGGA ctg3454 17
93629 1 S GTATTTGTGCCTTGCAGAATGGCTTTACCCCTCTCATATC
93629 P A S CGCGCCGAGGTGCCTGCAAGAAGAATCY
93629 P T S ATGACGTGGCAGACAGCCTGCAAGAAGAATCY
93629 T A S ATTCGATTCTTCTTGCAGGCAATATGAAGAGGGGTAAAGCCATTCTGCAAGGGACAAATACAT
93629 T T S ATTCGATTCTTCTTGCAGGCTATATGAAGAGGGGTAAAGCCATTCTGCAAGGGACAAATACAT
93629 IS [AT] GATGGATGCACCGTGTTTCAGAAGGAGTTCCATTACTTTAATTCGATTCTTCTTGCAGGC[AT]ATATGAAGAGGGGTAAAGCCATTCTGCAAGGGACAAATACATATAC CTGCTTGACTACAT ctg17403 17
93636 1 S GCTCTTCATGGTGTGCTGGGGCCACT
93636 P T S CGCGCCGAGGATTCTTGCTAACGGCGY
93636 P C S ATGAGGTGGCAGACGTTCTTGCTAACGGCGY
93636 T T S GGGGCGCCGTTAGCAAGAATGTGGCGCCAGCACACCATGAAGAGCAA
93636 T C S GGGGCGCCGTTAGCAAGAACGTGGCGCCAGCACACCATGAAGAGCAA
93636 IS [TC] GTCCTTCTCAGGCTTAAAACCAAGGAGTGTAGCAGTGTGCGGGGGGCCGTTAGCAAGAA[TC]GTGGCGCCAGCACACCATGAAGAGCAATCGGGTATCGTCAAATGAG AATAAGCTTCACAA ctg17036 17
93640 1 A GTTGAGACTATTGCAAACCGGCAGCCTTGCTAT
93640 P A A CGCGCCGAGGAAGGTGCAGTGGGGY
93640 P G A ATGACGTGGCAGACGGGTGCAGTGGGGY
93640 T A A TCACCCCCACTGCACCTTAGCAAGGCTGCCGGTTTGCAATAGTCTCAACTT
93640 T G A TCACCCCCACTGCACCCTAGCAAGGCTGCCGGTTTGCAATAGTCTCAACTT
93640 IS [AG] CCAATCTCGAGCACTCTCCAATGGGCAAGTTGAGACTATTGCAAACGGCAGCCTTGCTA[AG]GGTGCAGTGGGGGTGAAGCAGGGGTCTTTCTGCCCCTCAAACTTAAG GCCGCTGGTCTTG ctg13740 5
93641 1 A CAGATGCGCCAGGGCCTTGTGATGATCA
93641 P C A ATGACGTGGCAGACCGTGGCCTGCTGGY
93641 P T A CGCGCCGAGGTGTGCCTGCTGGY
93641 T C A TCCTCCAGCAGGCCACGGATCATCACAAGGCCCTGGCGCATCTGGG
93641 T T A TCCTCCAGCAGGCCACAGATCATCACAAGGCCCTGGCGCATCTGGG
93641 IS [CT] AGGGTGGAGGTGGGGTACCTGGATCAGAGCTCCCAGATGCGCCAGGGCCTTGTGATGATC[CT]GTGGCCTGCTGGAGGATTGCTGAATGGCCACTCCCTGCTGAGAGTTC AGCCACCTGGGCA ctg832 11
93642 1 A GGACAGGAGGAGACACTGGGGCAAGGACT
93642 P G A ATGACGTGGCAGACGGCCGCCATCTTY
93642 P A A CGCGCCGAGGAGCCCCCATCTTTY
93642 T G A GCCAAAAGATGGCGGGCCTGTCCTCCCCCAGTGTCTCCTCCTGTCCCC
93642 T A A GCCAAAAGATGGCGGGCTGTCCTCCCCCAGTGTCTCCTCCTGTCCCC

FIGURE 129C

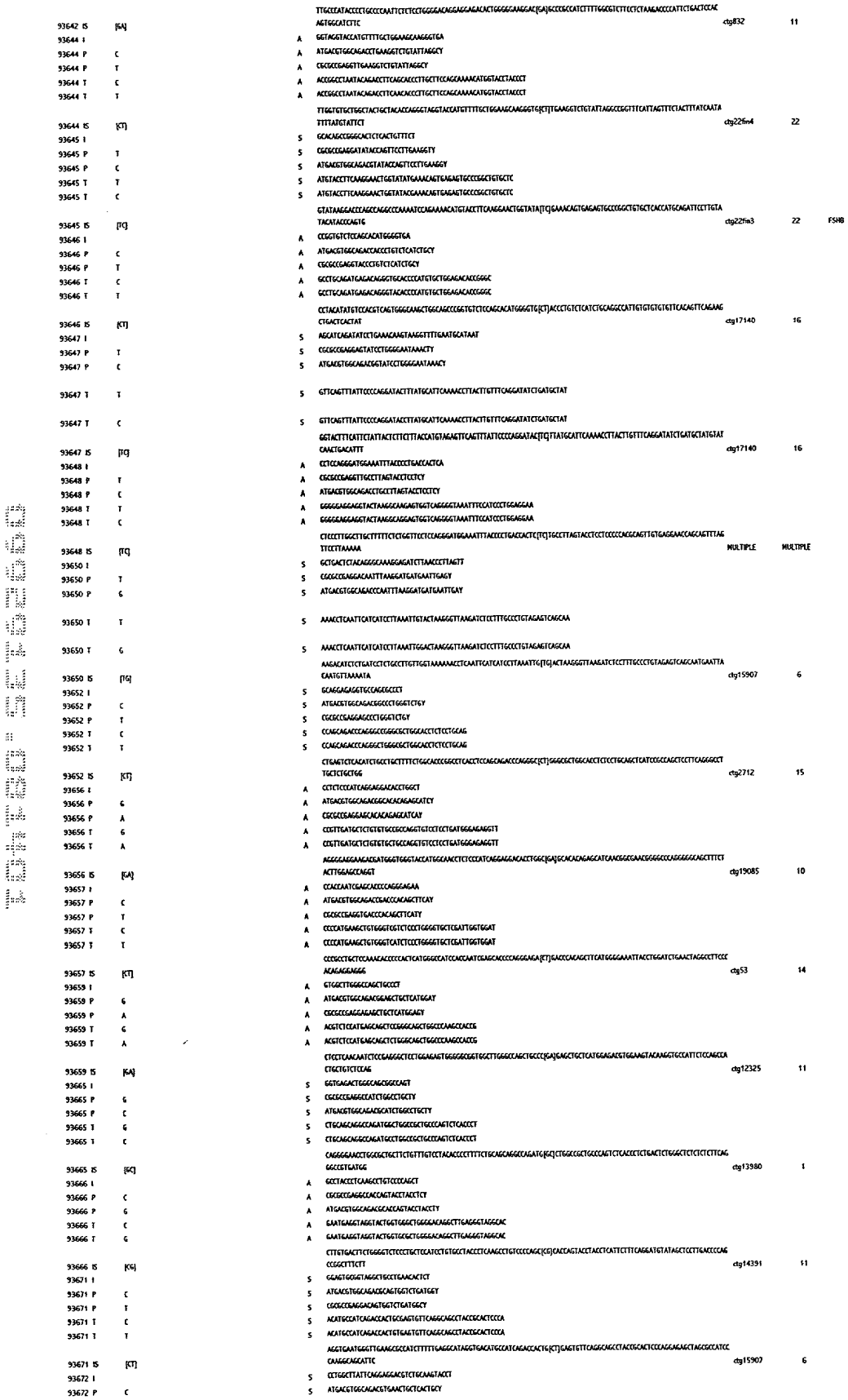
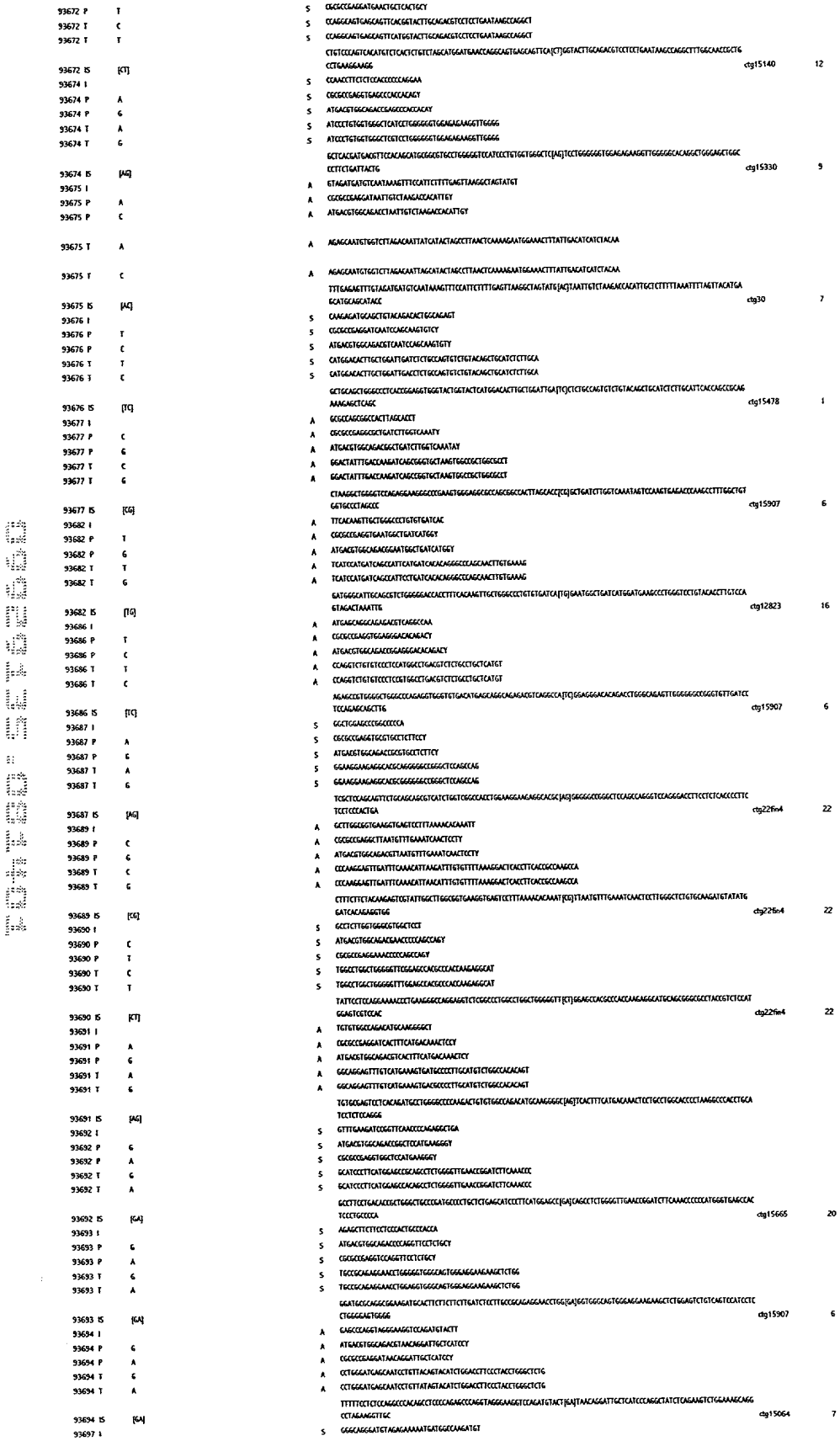


FIGURE 129C



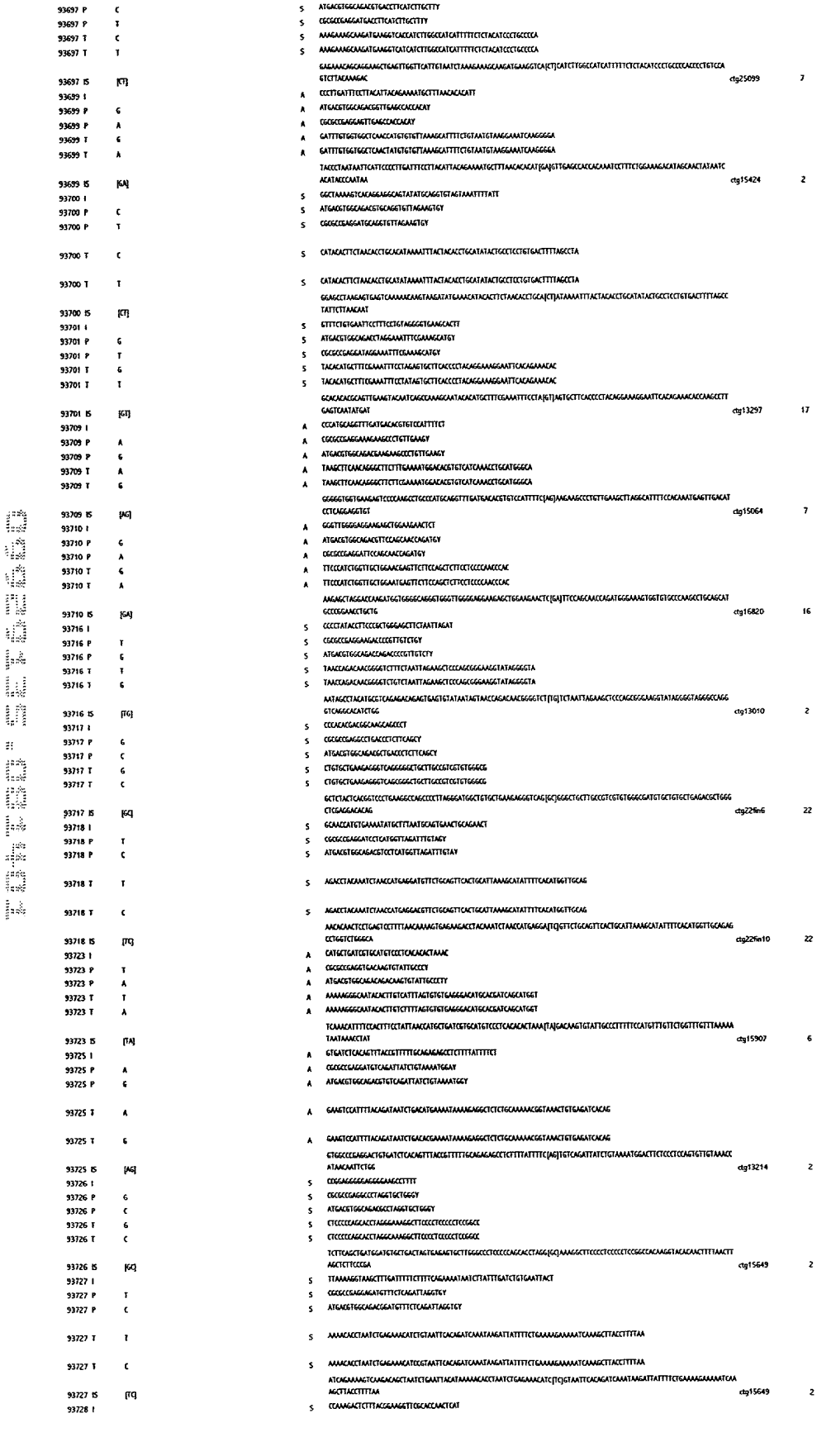

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93697 P T S CGCGCCGAGGATGACCTTCATCTTGCTTTY
93697 T C S AAAGAAAGCAAGATGAAGGTCACCATCTTGGCCATCATTTTTCTCTACATCCCTGCCCCA
93697 T T S AAAGAAAGCAAGATGAAGGTCATCATCTTGGCCATCATTTTTCTCTACATCCCTGCCCCA
93697 IS [CT] GAGAAACAGCAGGAAGCTGAGTTGGTTCATTGTAATCTAAAGAAAGCAAGATGAAGGTCA[CT]CATCTTGGCCATCATTTTTCTCTACATCCCTGCCCCACCCCTGTCCA GTCTTACAAAGAC ctg25099 7
93699 I A CCCTTGATTTCCTTACATTACAGAAAATGCTTTAACACACATT
93699 P G A ATGACGTGGCAGACGGTTGAGCCACCACAY
93699 P A A CGCGCCGAGGAGTTGAGCCACCACAY
93699 T G A GATTTGTGGTGGCTCAACCATGTGTGTTAAAGCATTTTCTGTAATGTAAGGAAATCAAGGGGA
93699 T A R GATTTGTGGTGGCTCAACTATGTGTGTTAAAGCATTTTCTGTAATGTAAGGAAATCAAGGGGA
93699 IS [GA] TACCCTAATAATTCATTCCCCTTGATTTCCTTACATTACAGAAAATGCTTTAACACACATT[GA]GTTGAGCCACCACAAATCCTTTCTGGAAAGACATAGCAACTATAATC ACATACCCAATAA ctg15424 2
93700 I S GGCTAAAAGTCACAGGAGGCAGTATATGCAGGTGTAGTAAATTTTATT
93700 P C S ATGACGTGGCAGACGTGCAGGTGTTAGAAGTGY
93700 P T S CGGGCCGAGGATGCAGGTGTTAGAAGTGY
93700 T C S CATACACTTCTAACACCTGCACATAAAATTTACTACACCTGCATATACTGCCTCCTGTGACTTTTAGCCTA
93700 T T S CATACACTTCTAACACCTGCATATAAAATTTACTACACCTGCATATACTGCCTCCTGTGACTTTTAGCCTA
93700 IS [CT] GGAGCCTAAGAGTGAGTCAAAAACAAGTAAGATATGAAACATACACTTCTAACACCTGCA[CT]ATAAAATTTACTACACCTGCATATACTGCCTCCTGTGACTTTTAGCC TATTCTTAACAAT
93701 I S GTTTCTGTGAATTCCTTTCCTGTAGGGGTGAAGCACTT
93701 P G S ATGACGTGGCAGACCTAGGAAATTTCGAAAGCATGY
93701 P T S CGCGCCGAGGATAGGAAATTTCGAAAGCATGY
93701 T G S TACACATGCTTTCGAAATTTCCTAGAGTGCTTCACCCCTACAGGAAAGGAATTCACAGAAACAC
93701 T T S TACACATGCTTTCGAAATTTCCTATAGTGCTTCACCCCTACAGGAAAGGAATTCACAGAAACAC
93701 IS [GT] GCACACAGCGAGTTGAAGTACAATCAGCCAAAGCAATACACATGCTTTCGAAATTTCCTA[GT]AGTGCTTCACCCCTACAGGAAAGGAATTCACAGAAACACCAAGCCTT GAGTCAATATGAT ctg13297 17
93709 I A CCCATGCAGGTTTGATGACACGTGTCCATTTTCT
93709 P A A CGCGCCGAGGAAAGAAGCCTGTTGAAGY
93709 P G A ATGACGTGGCAGACGAAGAAGCCCTGTTGAAGY
93709 T A A TAAGCTTCAACAGGGCTCTCTTGAAAATGGACACGTGTCATCAAACCTGCATGGGCA
93709 T G A TAAGCTTCAACAGGGCTCTCTTCGAAAATGGACACGTGTCATCAAACCTGCATGGGCA
93709 IS [AG] GGGGGTGGTGAAGAGTCCCCAAGCCTGCCCATGCAGGTTTGATGACACGTGTCCATTTTC[AG]AAGAAGCCCTGTTGAAGCTTAGGCATTTTCCACAAATGAGTTGACAT CCTCAGGAGGTGT ctg15064 7
93710 I A GGGTTGGGGAGGAAGAGCTGGAAGAACTCT
93710 P G A ATGACGTGGCAGACGTTCCAGCAACCAGATGY
93710 P A A CGCGCCGAGGATTCCAGCAACCAGATGY
93710 T G A TTCCCATCTGGTTGCTGGAATGAGTTCTTCCAGCTCTTCCTCCCCAACCCAC
93710 T A A TTCCCATCTGGTTGCTGGAATGAGTTCTTCCAGCTCTTCCTCCCCAACCCAC
93710 IS [GA] AAGAGCTAGGACCAAGATGGTGGGGCAGGGTGGGTTGGGGAGGAAGAGCTGGAAGAACTC[GA]TTCCAGCAACCAGATGGGAAAGTGGTGTGCCCAAGCCTGCAGCAT GCCCGGAACCTGCTG ctg16820 16
93716 I S CCCCTATACCTTCCCGCTGGGAGCTTCTAATTAGAT
93716 P T S CGCGCCGAGGAAGACCCCGTTGTCTGY
93716 P G S ATGACGTGGCAGACCAGACCCCGTTGTCTY
93716 T T S TAACCAGACAACAGCGGGTCTTTCTAATTAGAAGCTCCCAGCGGGAAGGTATAGGGGTA
93716 T G S TAACCAGACAACAGCGGGTCTGTCTAATTAGAAGCTCCCAGCGGGAAGGTATAGGGGTA
93716 IS [TG] AATAGCCTACATGCCTCAGAGACAGAGTGAGTGTATAATAGTAACCAGACAACAGCGGGTCT[TG]TCTAATTAGAAGCTCCCAGCGGGAAGGTATAGGGGTAGGGCCAGG GTCAGGCACATCTGG ctg13010 2
93717 I S CCCACACGACGGCAAGCAGCCCT
93717 P G S CGCGCCGAGGCCTGACCCTCTTCAGCY
93717 P C S ATGACGTGGCAGACGCTGACCCTCTTCAGCY
93717 T G S CTGTGCTGAAGAGGGTCAGCGGGCTGCTTGCCGTCGTGTGGGCG
93717 T C S CTGTGCTGAAGAGGGTCAGCGGGCTGCTTGCCGTCGTGTGGGCG
93717 IS [GC] GCTCTACTCACGGTCCCTCAAGCCAGCCCCTTAGGGATGGCTGTGCTGAAGAGGGTCAG[GC]GGGCTGCTTGCCGTCGTGTGGGCGATGTGCTGTGCTGAGACGCTGGG CTCGAGGACACAG ctg22fin6 22
93718 I S GCAACCATGTGAAAATATGCTTTAATGCAGTGAACTGCAGAACT
93718 P T S CGCGCCGAGGATCCTCATGGTTAGATTTGTAGY
93718 P C S ATGACGTGGCAGACGTCCTCATGGTTAGATTTGTAY
93718 T T S AGACCTACAAATCTAACCATGAGGATGTTCTGCAGTTCACTGCATTAAAGCATATTTTCACATGGTTGCAG
93718 T C S AGACCTACAAATCTAACCATGAGGACGTTCTGCAGTTCACTGCATTAAAGCATATTTTCACATGGTTGCAG
93718 IS [TC] AACACAACTCCTGAGTCCTTTTAACAAAAGTGAGAAGACCTACAAATCTAACCATGAGGA[TC]GTCTGCAGTTCACTGCATTAAAGCATATTTTCACATGGTTGCAGAG CCTGGTCTGGCA ctg22fin10 22
93723 I A CATGCTGATCGTGCATGTCCCTCACACACTAAAC
93723 P T A CGCGCCGAGGTGACAAGTGTATTGCCCY
93723 P A A ATGACGTGGCAGACACAACAAGTGTATTGCCCTY
93723 T T A AAAAAGGGCAATACACTTGTCATTTAGTGTGTGAGGGACATGCACGATCAGCATGGT
93723 T A A AAAAAGGGCAATACACTTGTCTTTAGTGTGTGAGGGACATGCACGATCAGCATGGT
93723 IS [TA] TCAAACATTTTCCACTTTCCTATTAACCATGCTGATGTGCATGTCCCTCACACACTAAA[TA]GACAAGTGTATTGCCCTTTTTCCATGTTTGTTCTGGTTTGTTTAAAAA TAATAAACCTAT ctg15907 6
93725 I A GTGATCTCACAGTTTACCGTTTTTGCAGAGAGCCTCTTTTATTTTCT
93725 P A A CGCGCCGAGGATGTCAGATTATCTGTAAAATGGAY
93725 P G A ATGACGTGGCAGACGTGTCAGATTATCTGTAAAATGGY
93725 T A A GAAGTCCATTTTACAGATAATCTGACATGAAAATAAAAGAGGCTCTCTGCAAAAACGGTAAACTGTGAGATCACAG
93725 T G A GAAGTCCATTTTACAGATAATCTGACACGAAAATAAAAGAGGCTCTCTGCAAAAACGGTAAACTGTGAGATCACAG
93725 IS [AG] GTGGCCCCAGGACTGTGATCTCACAGTTTACCGTTTTTGCAGAGAGCCTCTTTTATTTTC[AG]TGTCAGATTATCTGTAAAATGGACTTCTCCCCTCCAGTGTTGTAAACC ATAACAATTCTGG ctg13214 2
93726 I S CCGCAGCGGCGAGGGCAAGCCTTTT
93726 P G S CGCGCCGAGGCCTTAGGTGCTGGGY
93726 P C S ATGACGTGGCAGAGCCTAGGTGCTGGGY
93726 T G S CTCCCCCAGCACCTAGGGAAAGGCTTCCCCTCCCCTCCGCC
93726 T C S CTCCCCCAGCACCTAGGCAAAGGCTTCCCCTCCCCTCCGCC
93726 IS [GC] TCTTCAGCTGATGGATGTGCTGACTAGTGAGAGTGCTTGGGCCCTCCCCCAGCACCTAGG[GC]AAAGGCTTCCCCTCCCCCTCCGGCCACAAGGTACACAACTTTTAACTT AGCTCTTCCCGA ctg15649 2
93727 I S TTAAAAGGTAAGCTTTGATTTTTCTTTTCAGAAAATAATCTATTTGATCTGTGAATTACT
93727 P T S CGCGCCGAGGAGATGTTTCTCAGATTAGGTGY
93727 P C S ATGACGTGGCAGACGGATGTTTCTCAGATTAGGTGY
93727 T T S AAAACACCTAATCTGAGAAACATCTGTAATTCACAGATCAAATAAGATTATTTTCTGAAAAGAAAAATCAAAGCTTACCTTTTAA
93727 T C S AAAACACCTAATCTGAGAAACATCCGTAATTCACAGATCAAATAAGATTATTTTCTGAAAAGAAAAATCAAAGCTTACCTTTTAA
93727 IS [TC] ATCAGAAAAGTCAAGACAGCTAATCTGAATTACATAAAACACCTAATCTGAGAAACATC[TC]GTAATTCACAGATCAAATAAGATTATTTTCTGAAAAGAAAAATCAA AGCTTACCTTTTAA ctg15649 2
93728 I S CCAAAGACTCTTTACGGAAGGTTCGCACCAACTCAT

FIGURE 129C

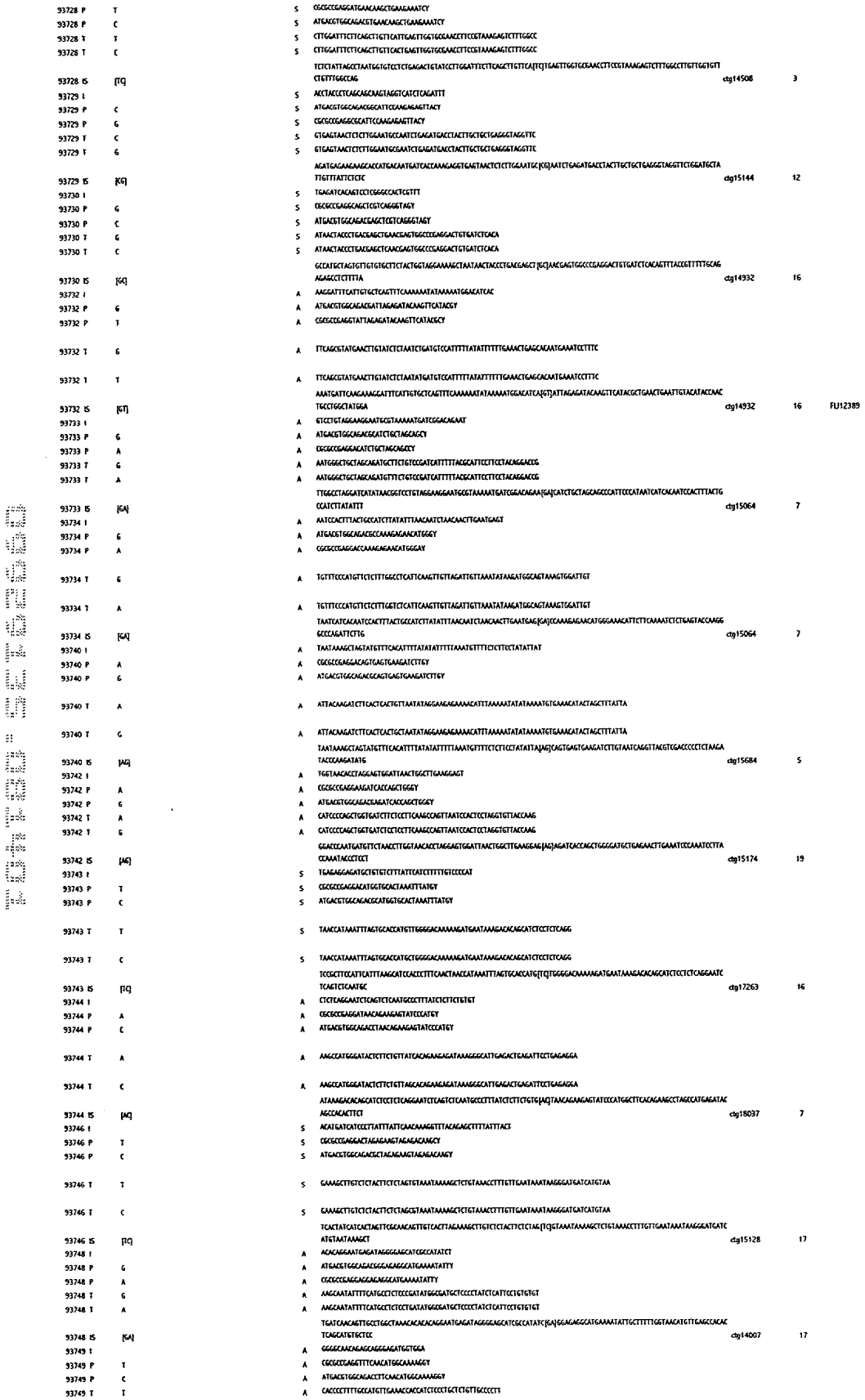


FIGURE 129C

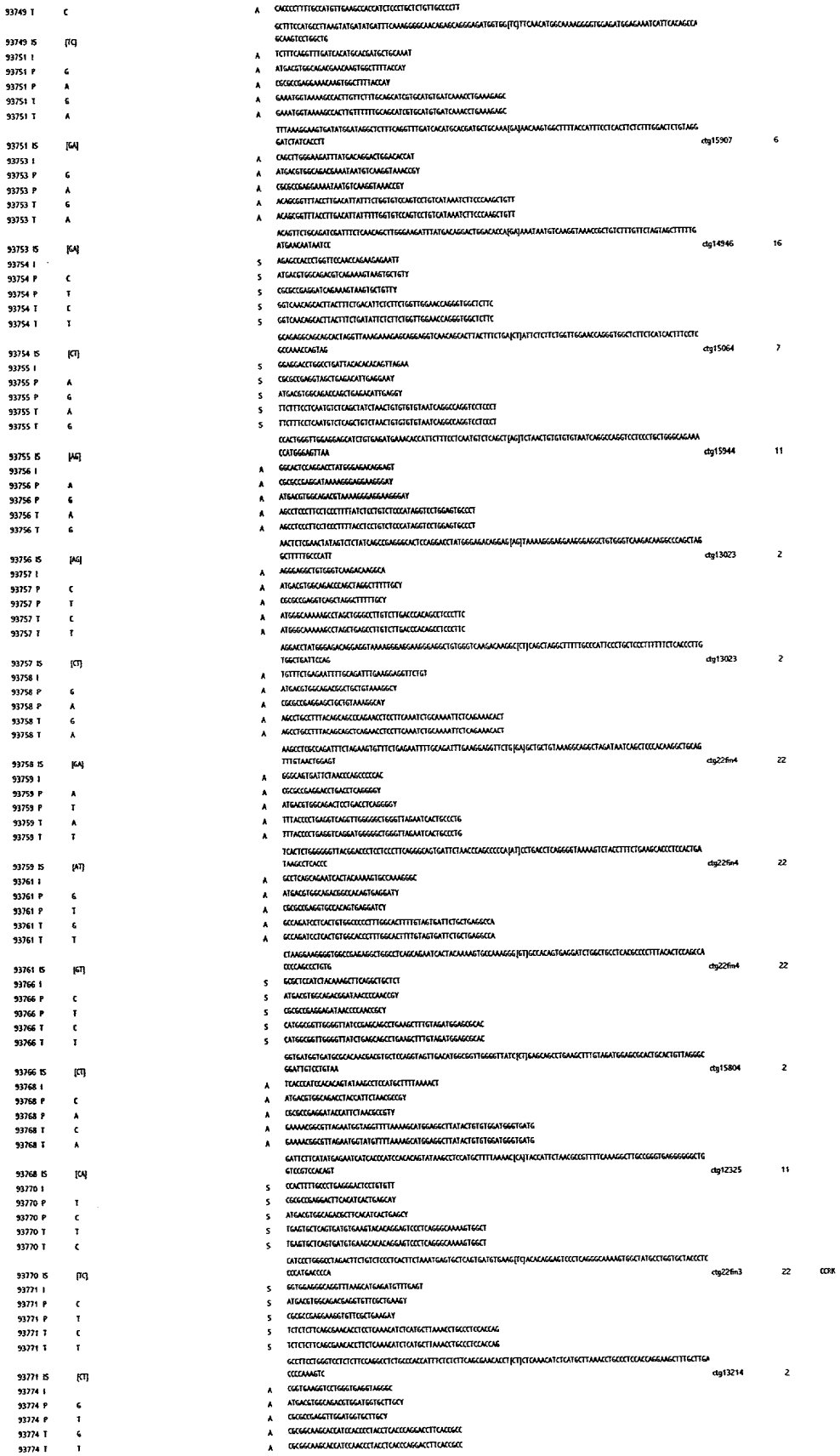
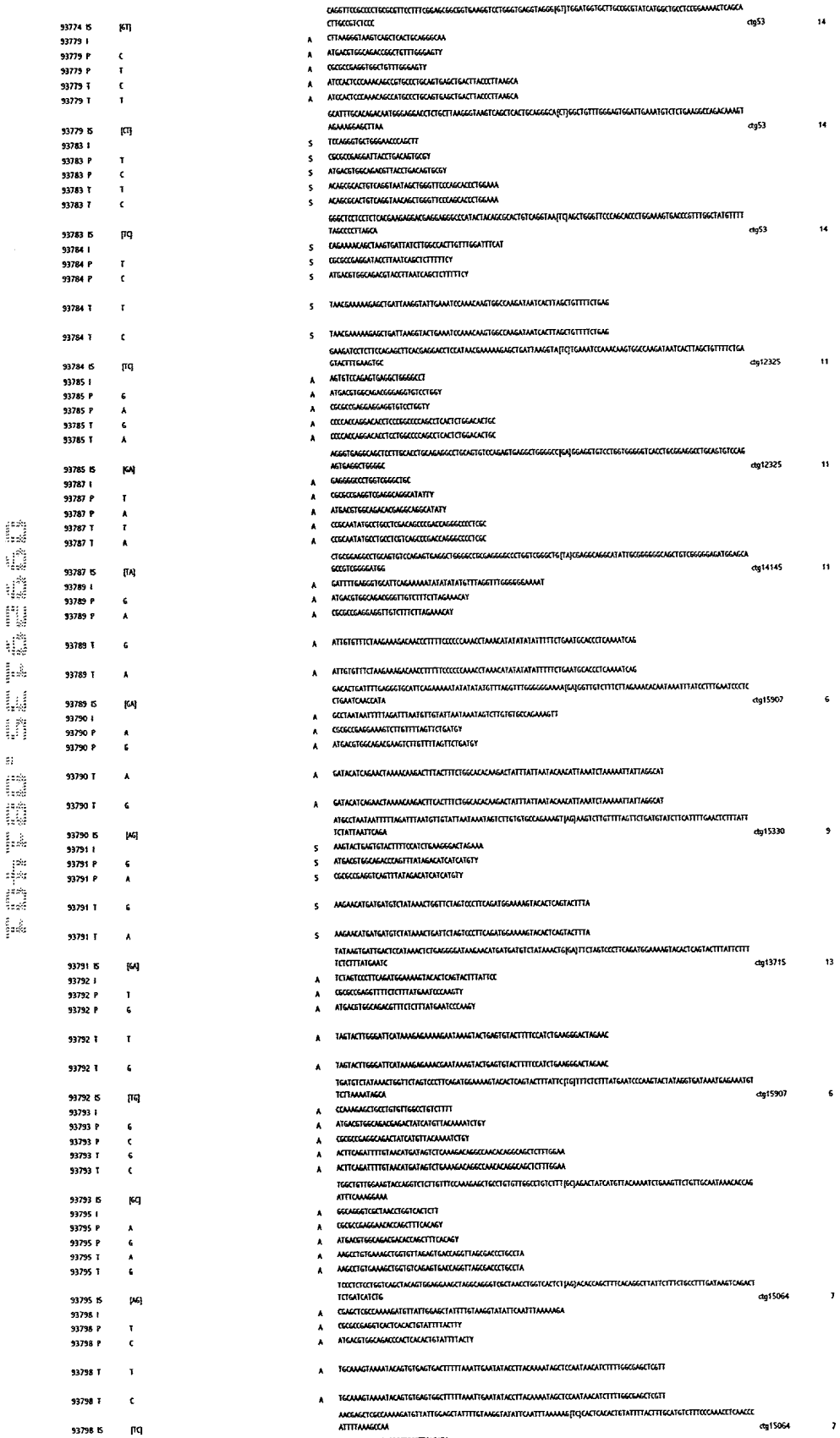


FIGURE 129C


93774 IS [GT]
93779 I
93779 P C
93779 P T
93779 T C
93779 T T
93779 IS [CT]
93783 I
93783 P T
93783 P C
93783 T T
93783 T C
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93784 I
93784 P T
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93799 I

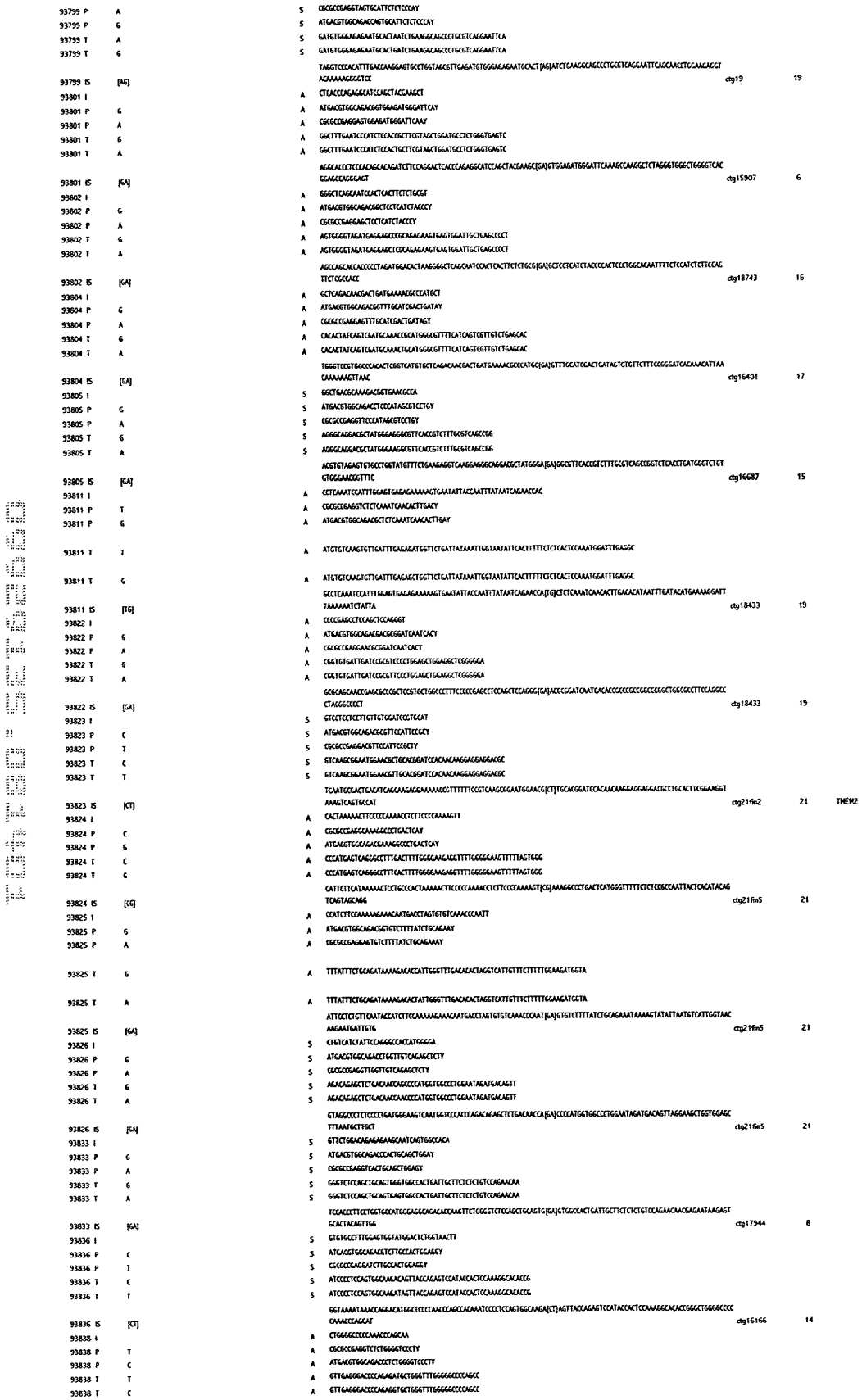

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93799 T G S GATGTGGGAGAGAATGCACTGATCTGAAGGCAGCCCTGCGTCAGGAATTCA
93799 IS [AG] TAGGTCCCACATTTGACCAAGGAGTGCCTGGTAGCGTTGAGATGTGGGAGAGAATGCACT[AG]ATCTGAAGGCAGCCCTGCGTCAGGAATTCAGCAACCTGGAAGAGGT ACAAAAAGGGGTCC ctg19 19
93801 I A CTCACCGAGAGGCATCCAGCTACGAAGCT
93801 P G A ATGACGTGGCAGACGGTGGAGATGGGATTCAY
93801 P A A CGCGCCGAGGAGTGGAGATGGGATTCAAY
93801 T G A GGCTTTGAATCCCATCTCCACGCTTCGTAGCTGGATGCCTCTGGGTGAGTC
93801 T A A GGCTTTGAATCCCATCTCCACTGCTTCGTAGCTGGATGCCTCTGGGTGAGTC
93801 IS [GA] AGGCACCCTCCCACAGCACAGATCTTCCAGGACTCACCCAGAGGCATCCAGCTACGAAGC[GA]GTGGAGATGGGATTCAAAGCCAAGGCTCTAGGGTGGGCTGGGGCTCAC GGAGCCAGGGAGT ctg15907 6
93802 I A GGGCTCAGCAATCCACTCACTTCTCTGCGT
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93802 P A A CGCGCCGAGGAGCTCCTCATCTACCCY
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FIGURE 129C

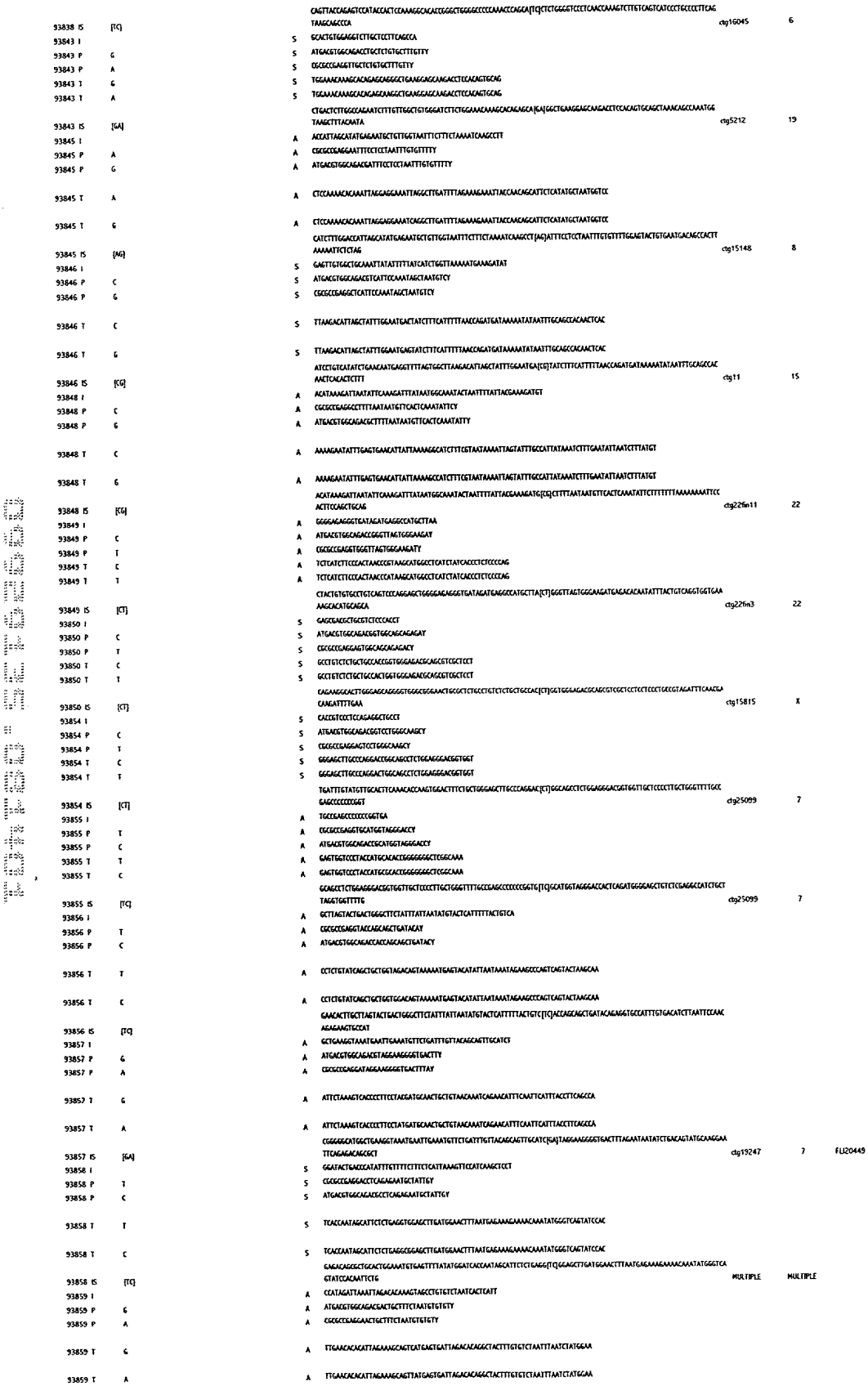


FIGURE 129C

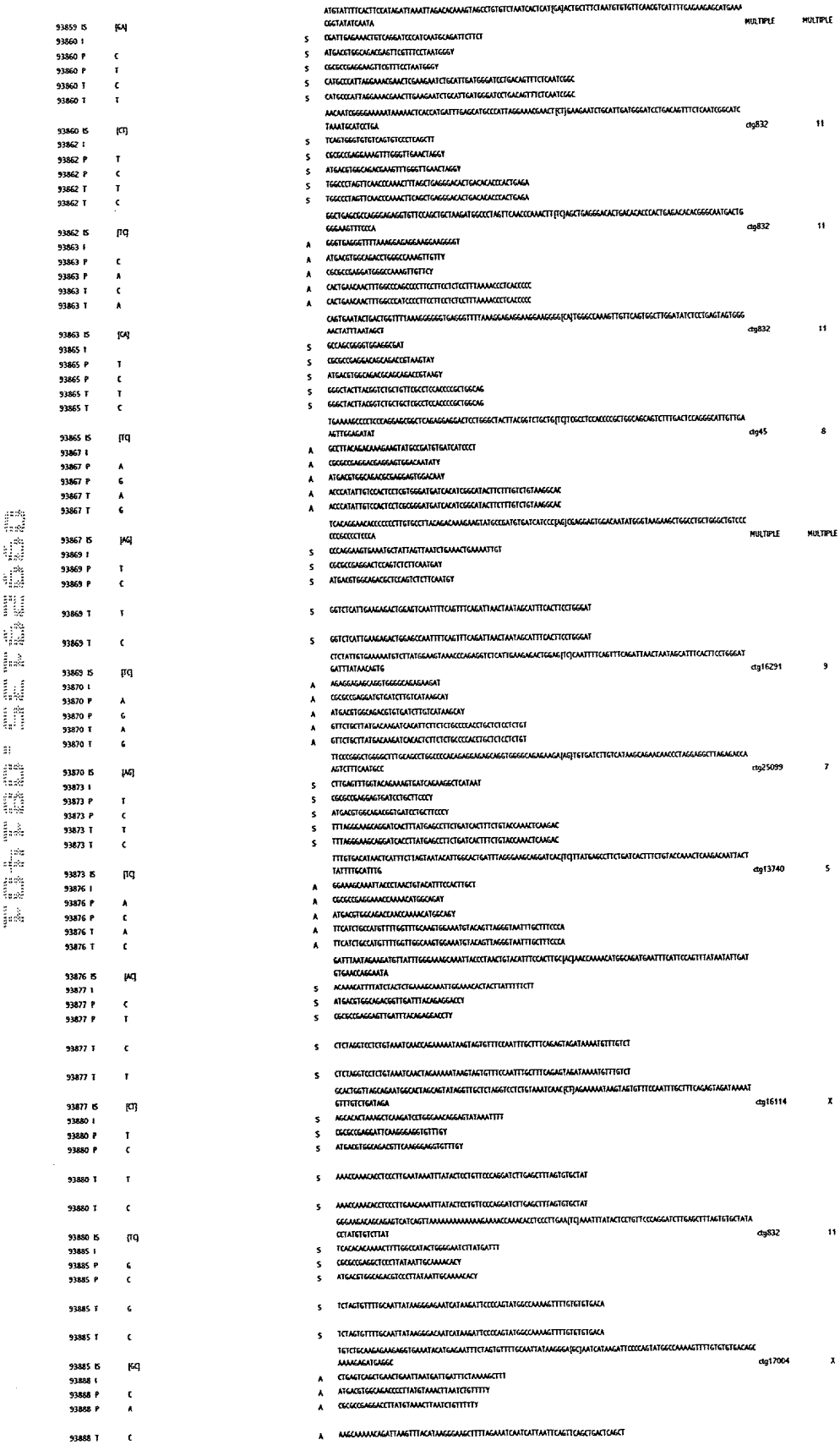


FIGURE 129C

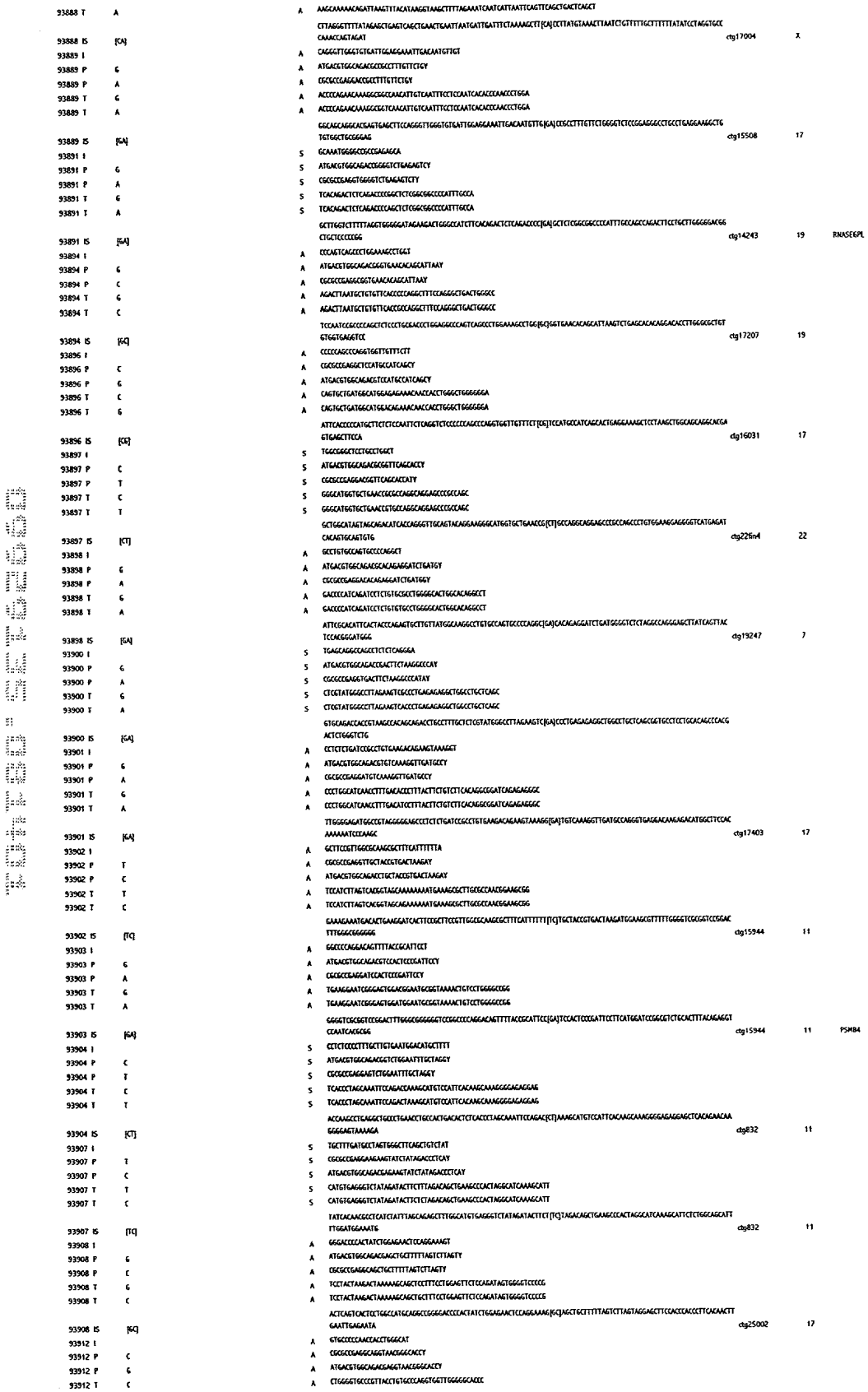


FIGURE 129C

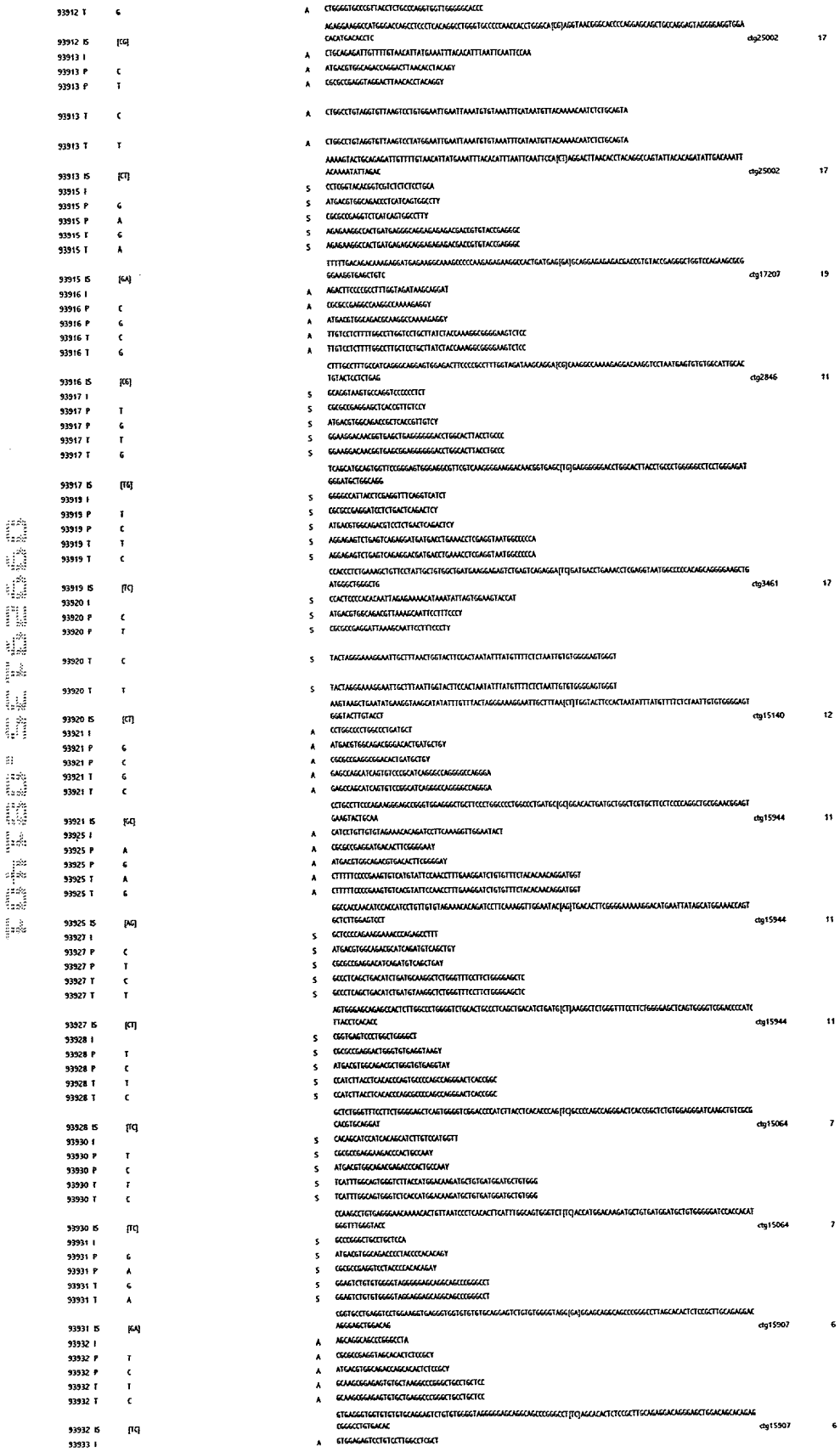


FIGURE 129C

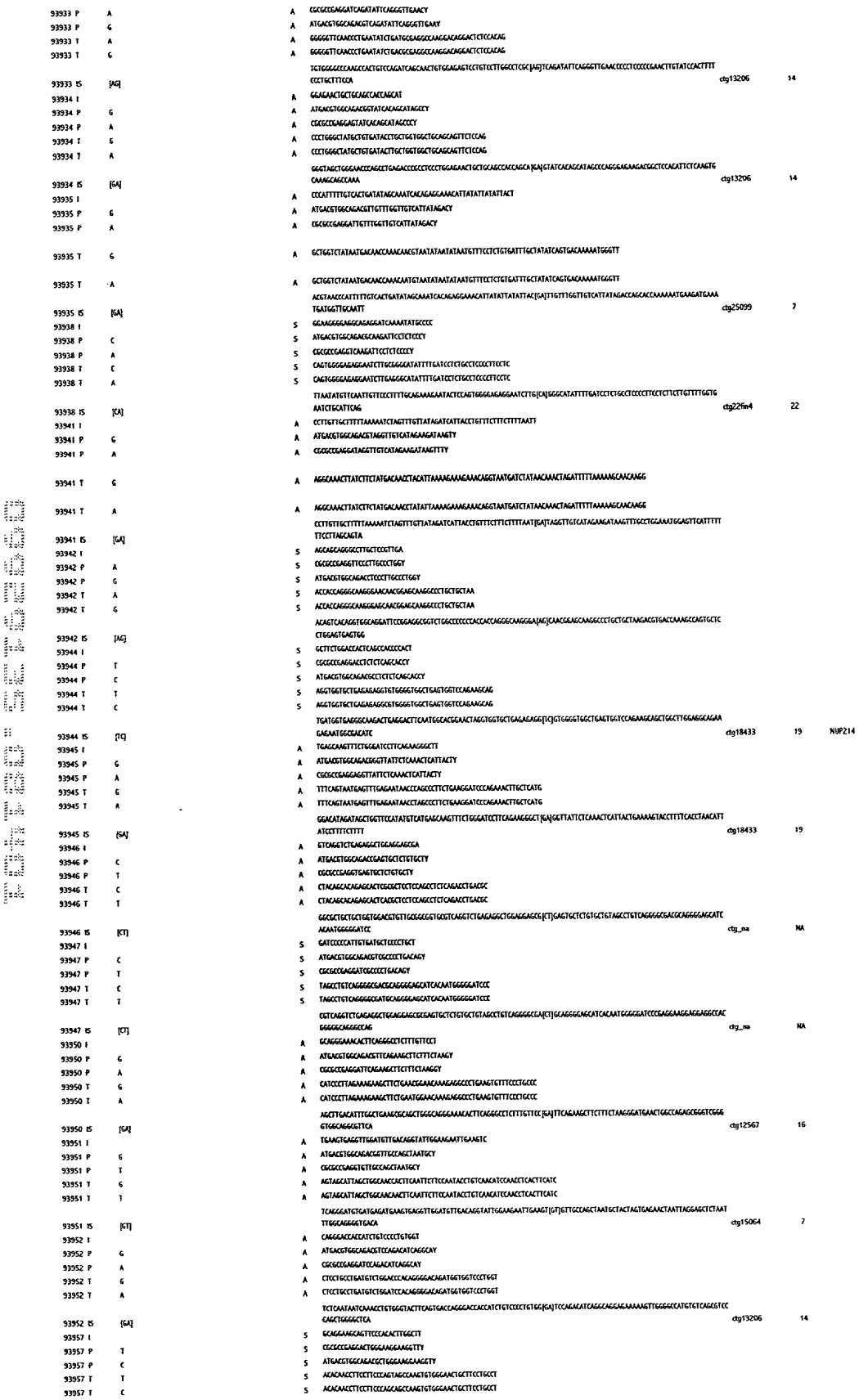


FIGURE 129C

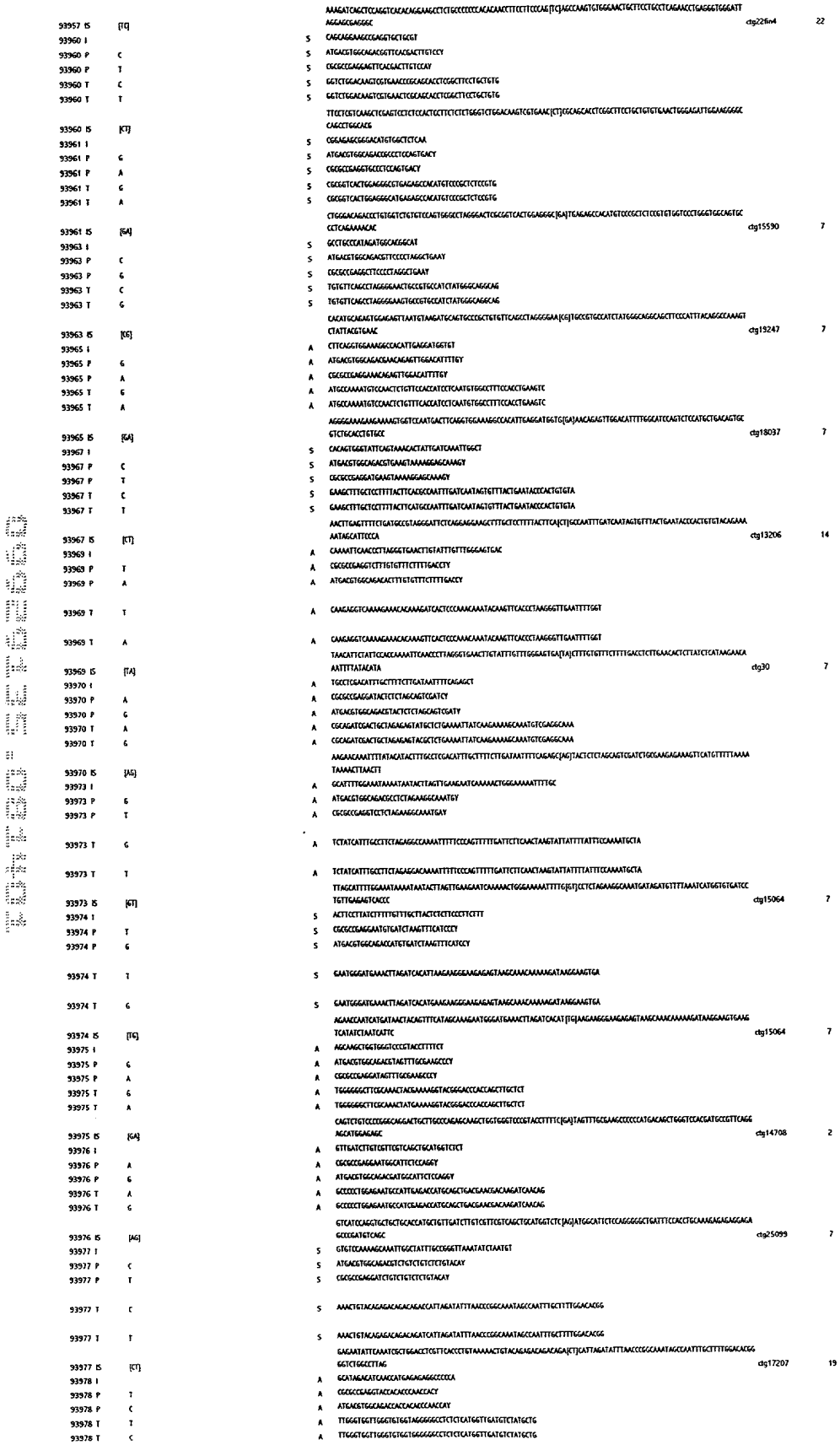
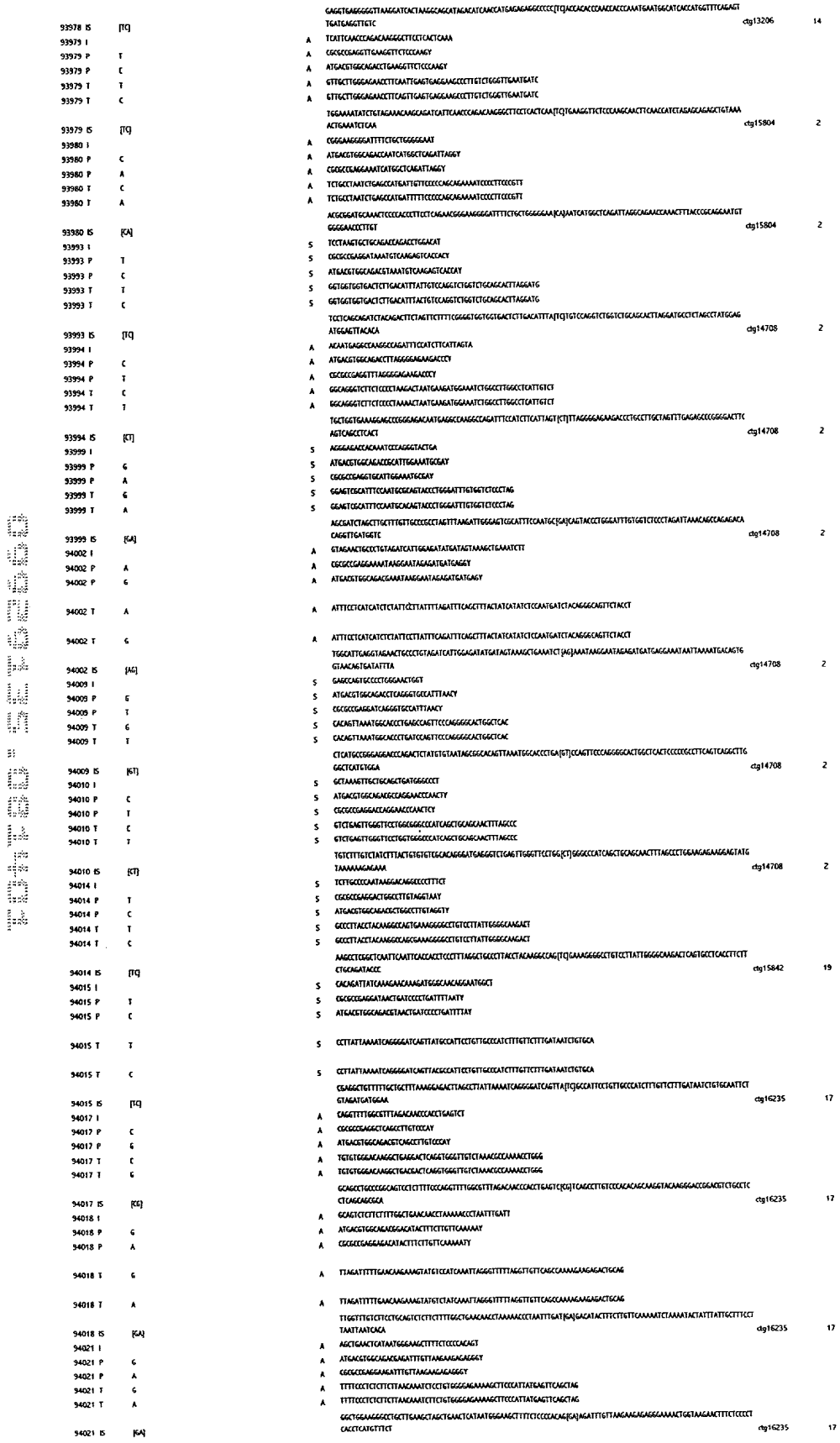


FIGURE 129C



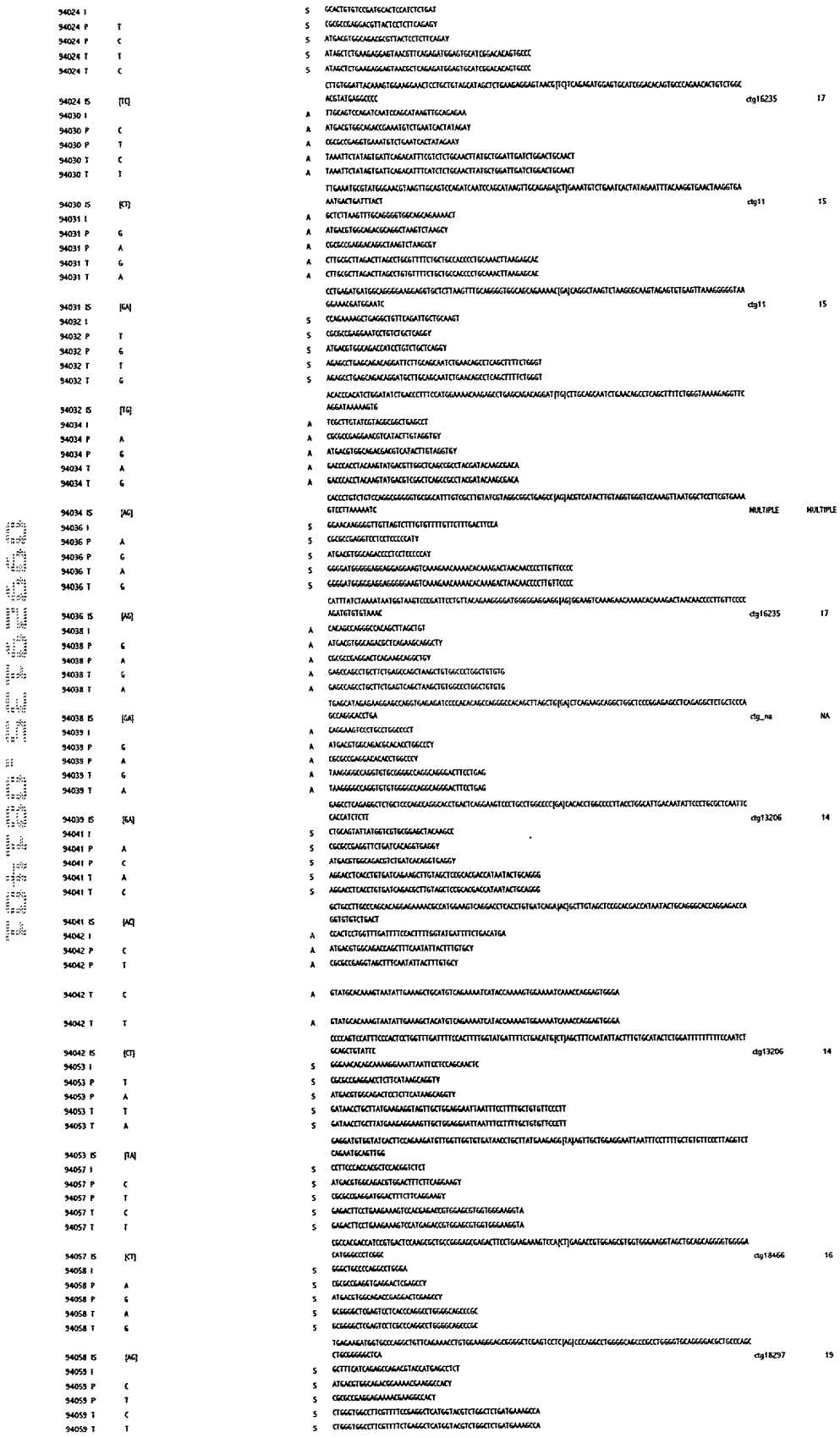


FIGURE 129C

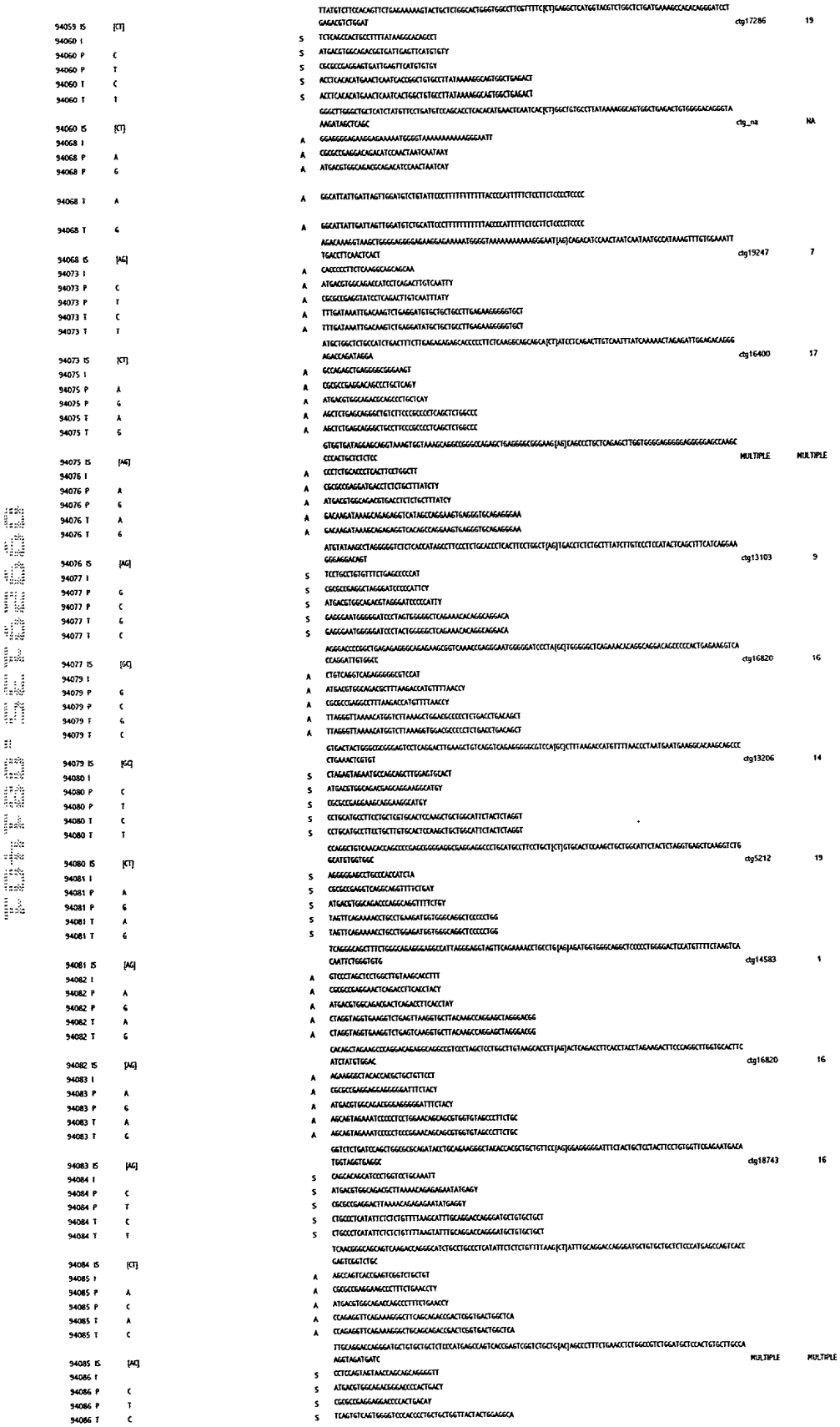

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FIGURE 129C

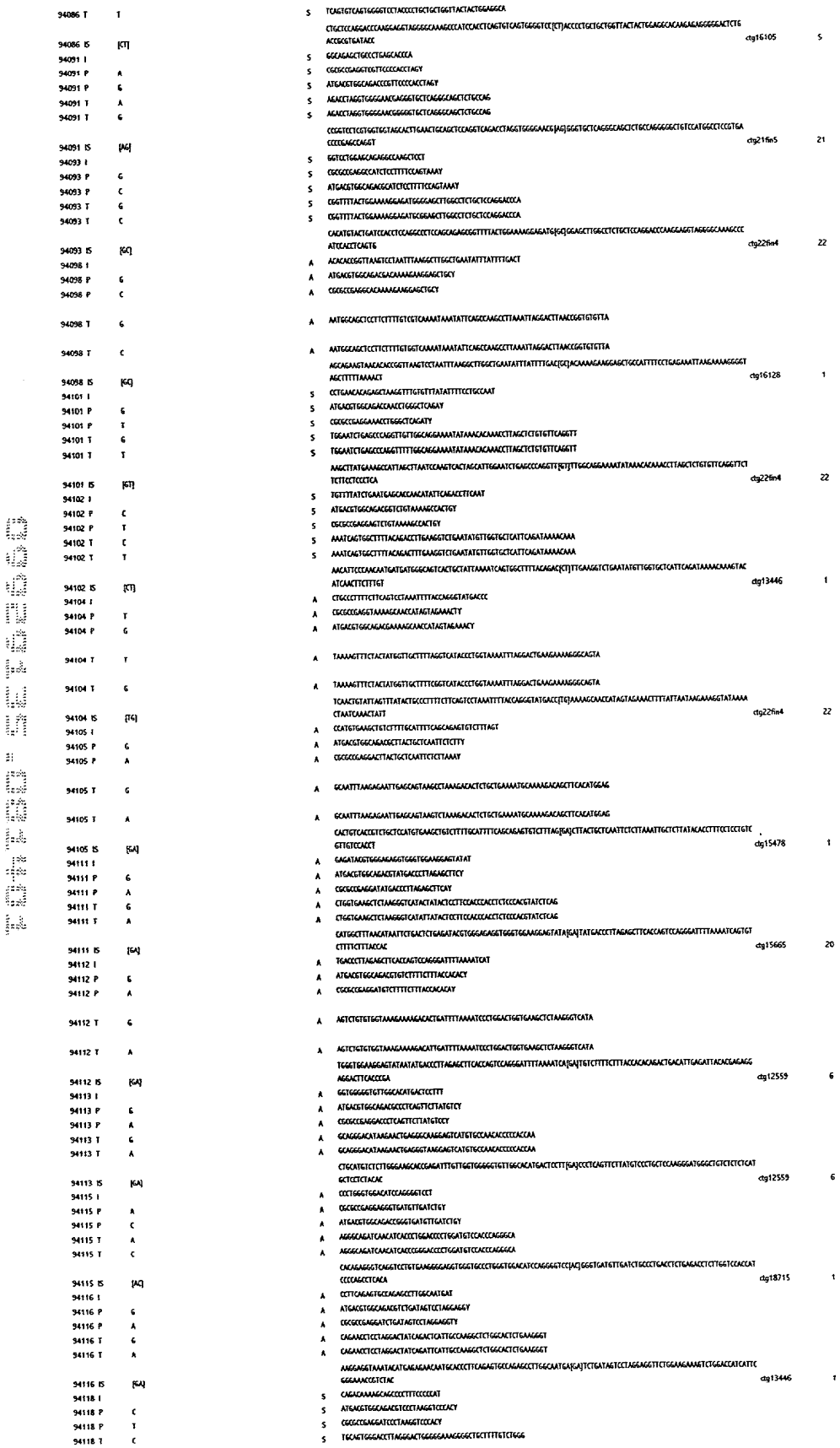

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94105 T G A GCAATTTAAGAGAATTGAGCAGTAAGCCTAAAGACACTCTGCTGAAAATGCAAAAGACAGCTTCACATGGAG
94105 T A A GCAATTTAAGAGAATTGAGCAGTAAGTCTAAAGACACTCTGCTGAAAATGCAAAAGACAGCTTCACATGGAG
94105 IS [GA] CACTGTCACCGTCTGCTCCATGTGAAGCTGTCTTTTGCATTTTCAGCAGAGTGTCTTTAG[GA]CTTACTGCTCAATTCTCTTAAATTGCTCTTATACACCTTTCCTCCCTGTC GTTGTCCACCT ctg15478 1
94111 I A GAGATACGTGGGAGAAGGTGGGTGGAAGGAGTATAT
94111 P G A ATGACGTGGCAGACGTATGACCCTAGAGCTTCY
94111 P A A CGCGCCGAGGATATGACCCTAGAGCTTCAY
94111 T G A CTGGTGAAGCTCTAAGGGTCATACTATACTCCTTCCACCCACCTCTCCCACGTATCTCAG
94111 T A A CTGGTGAAGCTCTAAGGGTCATATTATACTCCTTCCACCCACCTCTCCCACGTATCTCAG
94111 IS [GA] CATGGCTTTAACATAATTCTGACTCTGAGATACGTGGGAGAGGTGGGTGGAAGGAGTATA[GA]TATGACCCTTAGAGCTTCACCAGTCCAGGGATTTTAAAATCAGTGT CTTTTCTTTACCAC ctg15665 20
94112 I A TGACCCTTAGAGCTTCACCAGTCCAGGGATTTTAAAATCAT
94112 P G A ATGACGTGGCAGACGTGTCTTTTCTTTACCACACAY
94112 P A A CGCGCCGAGGATGTCTTTTCTTTACCACACAY
94112 T G A AGTCTGTGTGGTAAAGAAAAGACACTGATTTTAAAATCCCTGGACTGGTGAAGCTCTAAGGGTCATA
94112 T A A AGTCTGTGTGGTAAAGAAAAGACATTGATTTTAAAATCCCTGGACTGGTGAAGCTCTAAGGGTCATA
94112 IS [GA] TGGGTGGAAGGAGTATAATATGACCCTTAGAGCTTCACCAGGCAGTTTTAAAATCA[GA]TGTCTTTTCTTTACCACACAGACTGACATTGAGATTACACGAGAGG AGGACTTCACCCGA ctg12559 6
94113 I A GGTGGGGGTGTTGGGCACATGACTCCTTT
94113 P G A ATGACGTGGCAGACGCCCTCAGTTCTTATGTCY
94113 P A A CGCGCCGAGGACCCTCAGTTCTTATGTCCY
94113 T G A GCAGGGACATAAGAACTGAGGGCAAGGAGTCATGTGCCAACACCCCCACCAA
94113 T A A GCAGGGACATAAGAACTGAGGGTAAGGAGTCATGTGCCAACACCCCCACCAA
94113 IS [GA] CTGCATGTCTCTGTTGGGAAGCACCGAGATTTGTTGGTGGGGGTGTTGGCACATGACTCCTT[GA]CCCTCAGTTCTTATGTCCCTGCTCCAAGGGATGGGCTGTCTCTCTCAT GCTCCTCTACAC ctg12559 6
94115 I A CCCTGGGTGGACATCCAGGGGTCCT
94115 P A A CGCGCCGAGGAGGGTGATGTTGATCTGY
94115 P C A ATGACGTGGCAGACCGGGTGATGTTGATCTGY
94115 T A A AGGGCAGATCAACATCACCCTGGACCCCTGGATGTCCACCCAGGGCA
94115 T C A AGGGCAGATCAACATCACCCGGGACCCCTGGATGTCCACCCAGGGCA
94115 IS [AC] CACAGAGGGTCAGGTCCTGTGAAGGGGAGGTGGGTGCCCTGGGTGGACATCCAGGGGTCC[AC]GGGTGATGTTGATCTGCCCTGACCTCTGAGACCTCTTGGTCCACCAT CCCCAGCCTCACA ctg18715 1
94116 I A CCTTCAGAGTGCCAGAGCCTTGGCAATGAT
94116 P G A ATGACGTGGCAGACGTCTGATAGTCCTAGGAGGY
94116 P A A CGCGCCGAGGATCTGATAGTCCTAGGAGGTY
94116 T G A CAGAACCTCCTAGGACTATCAGACTCATTGCCAAGGCTCTGGCACTCTGAAGGGT
94116 T A A CAGAACCTCCTAGGACTATCAGATTCATTGCCAAGGCTCTGGCACTCTGAAGGGT
94116 IS [GA] AAGGAGGTAAATACATGAGAGAACAATGCACCCTTCAGAGTGCCAGAGCCTTGGCAATGA[GA]TCTGATAGTCCTAGGAGGTTCTGGAAGAAAGTCTGGACCATCATTC GGGAAACCGTCTAC ctg13446 1
94118 I S CAGACAAAGCAGCCCCTTTCCCCCAT
94118 P C S ATGAGGTGGCAGACGTCCCTAAGGTCCCACY
94118 P T S CGGCCCGAGGATCCCTAAGGTCCCACY
94118 T C S TGCAGTGGGACCTTAGGGACTGGGGGAAAGGGGCTGCTTTTGTCTGGG

FIGURE 129C

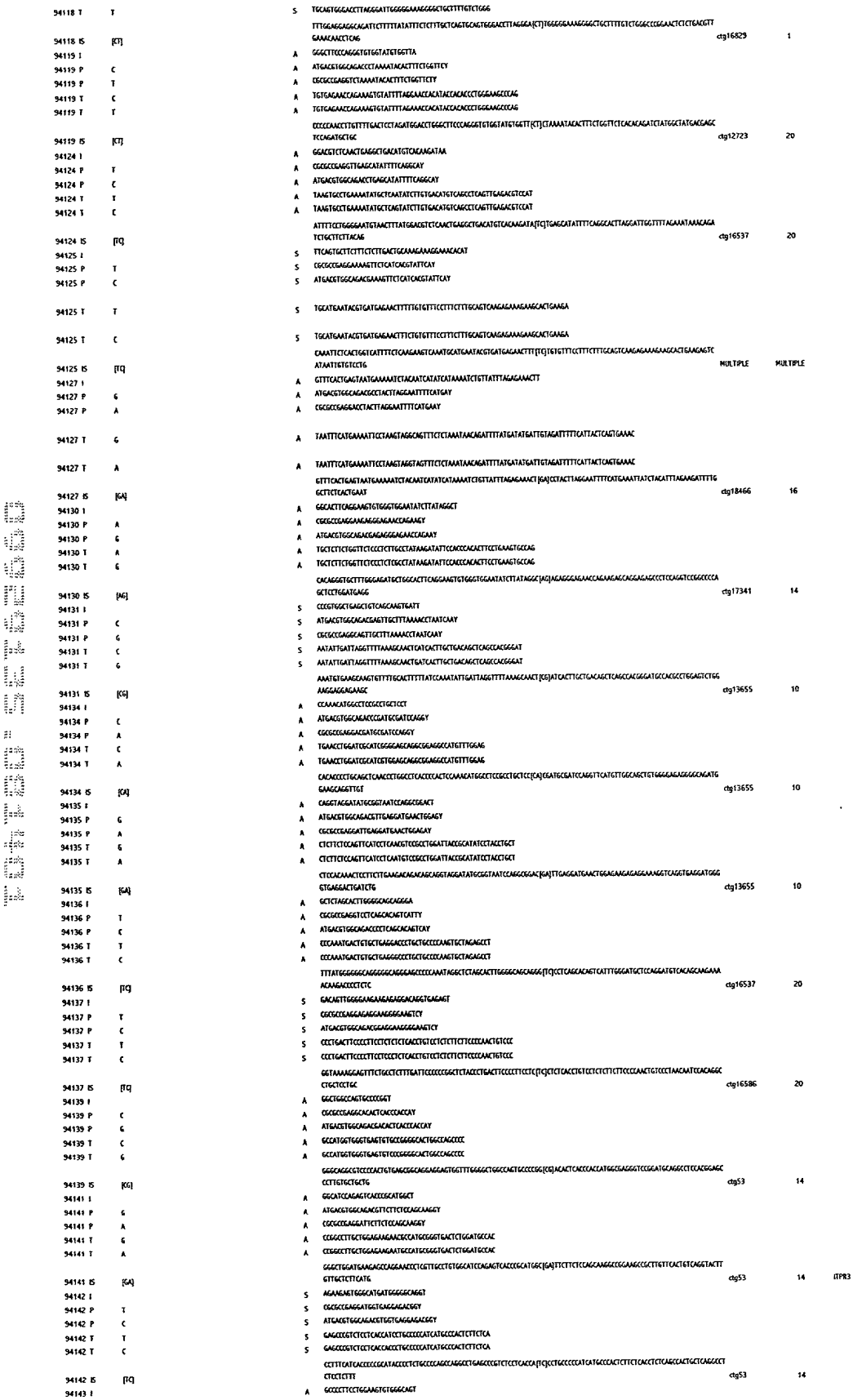
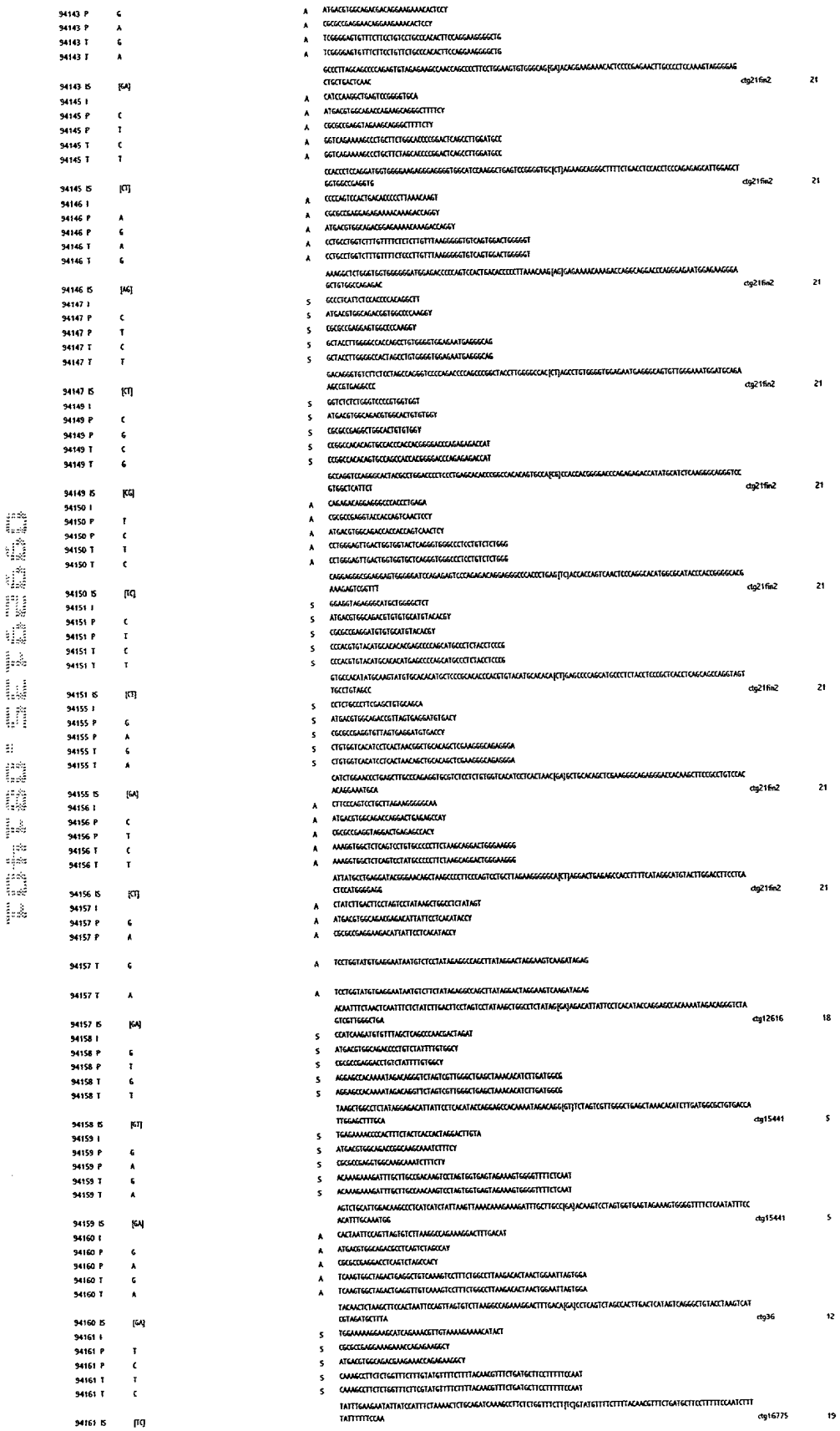
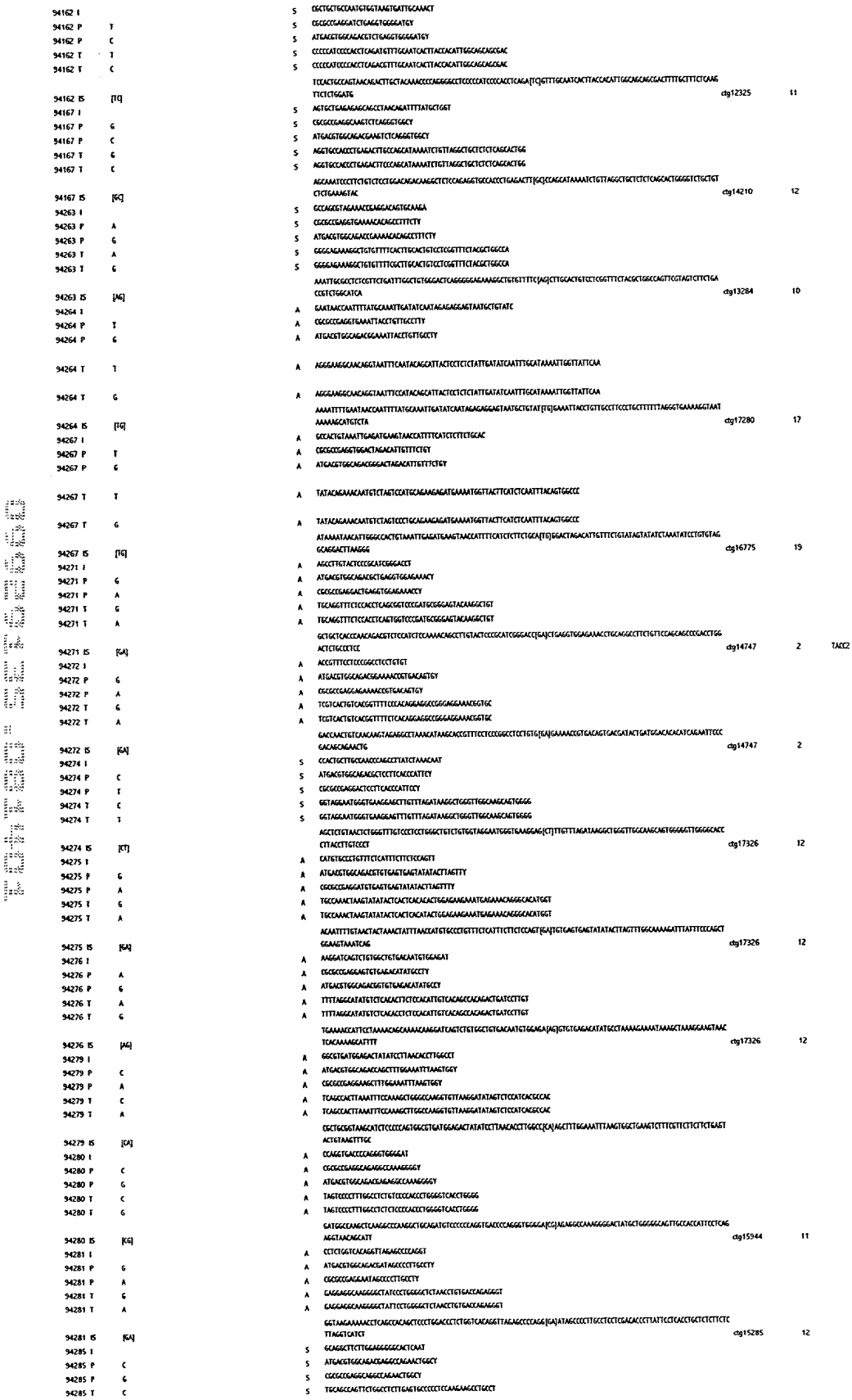


FIGURE 129C





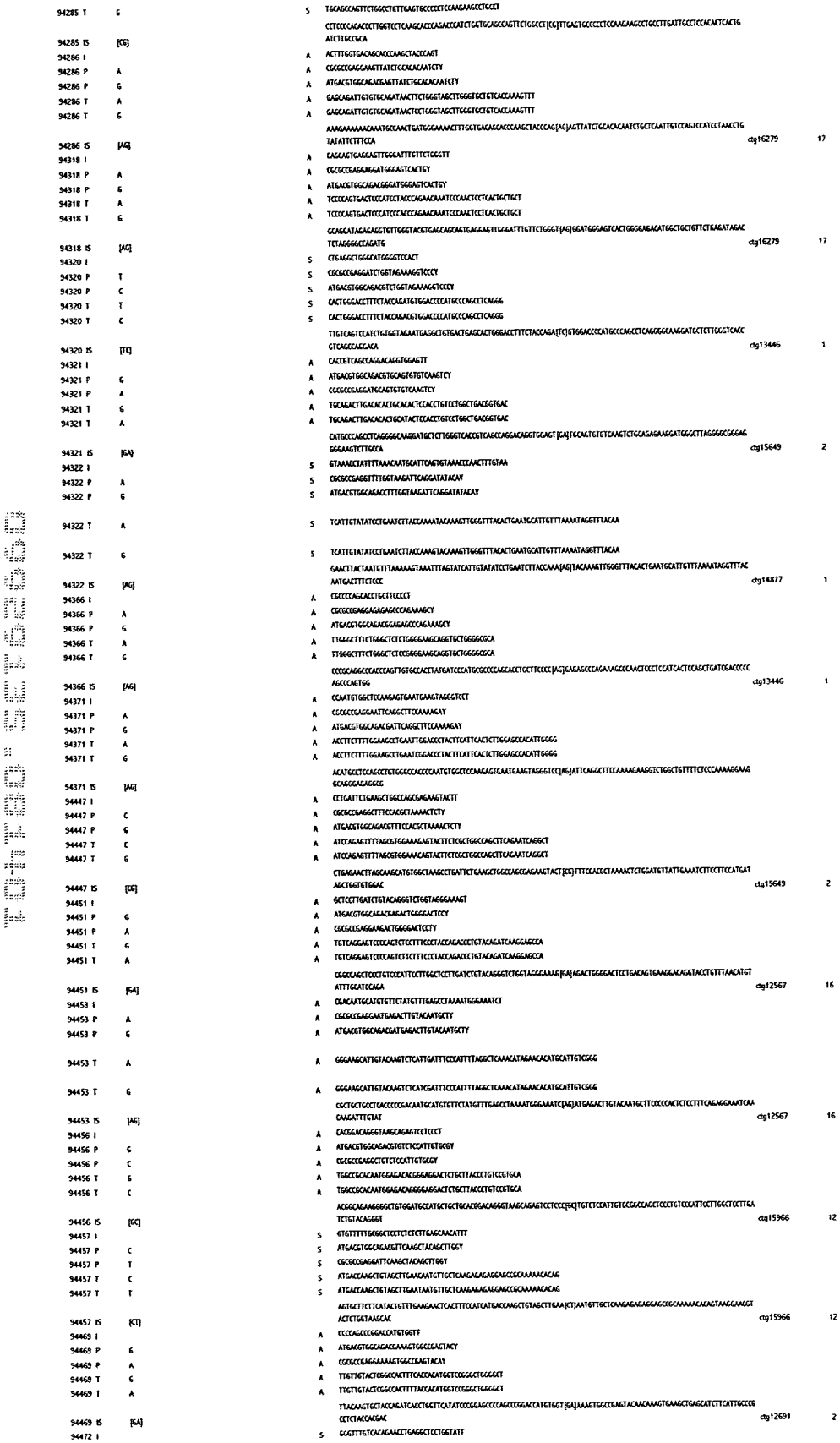


FIGURE 129C

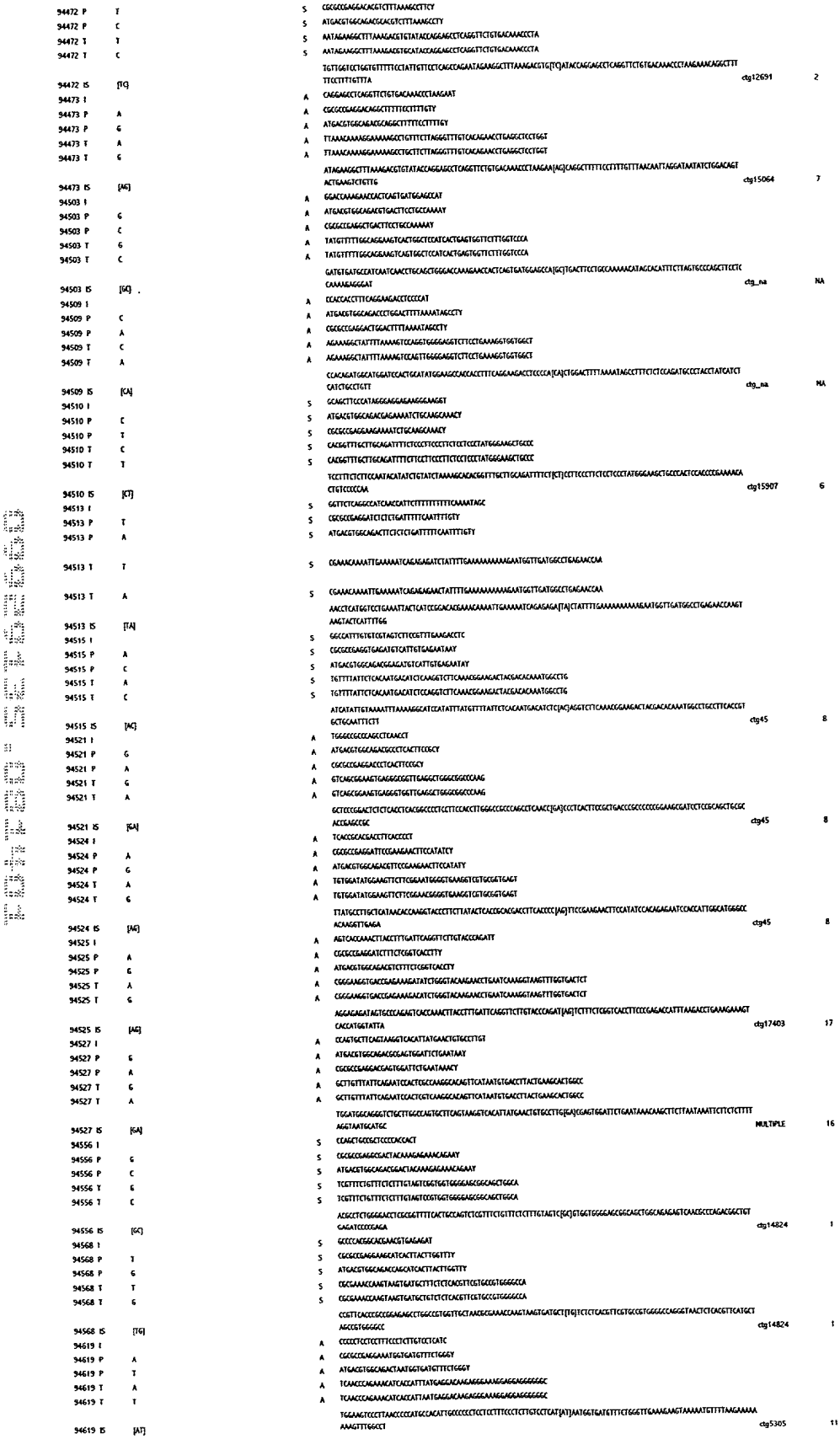


FIGURE 129C

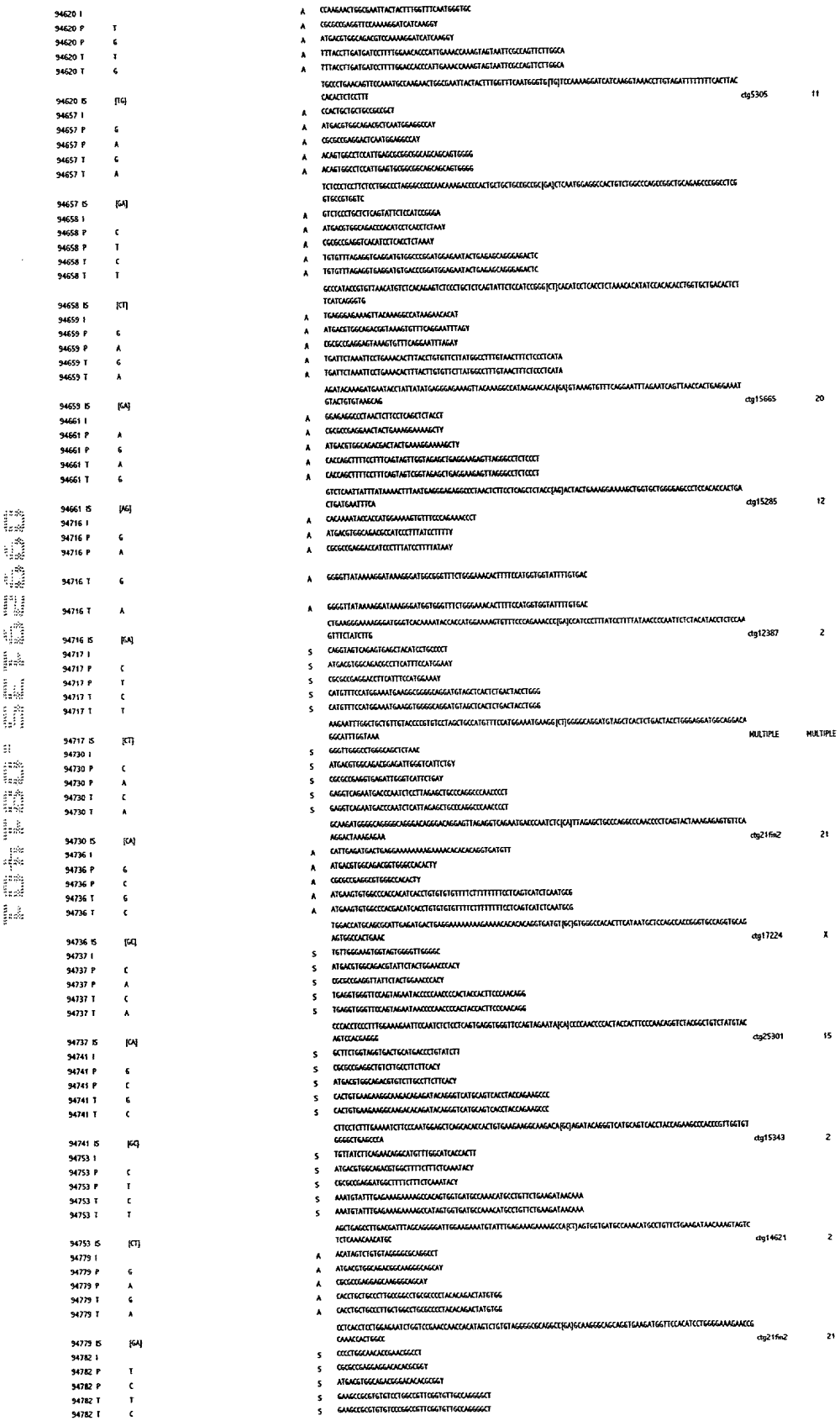


FIGURE 129C

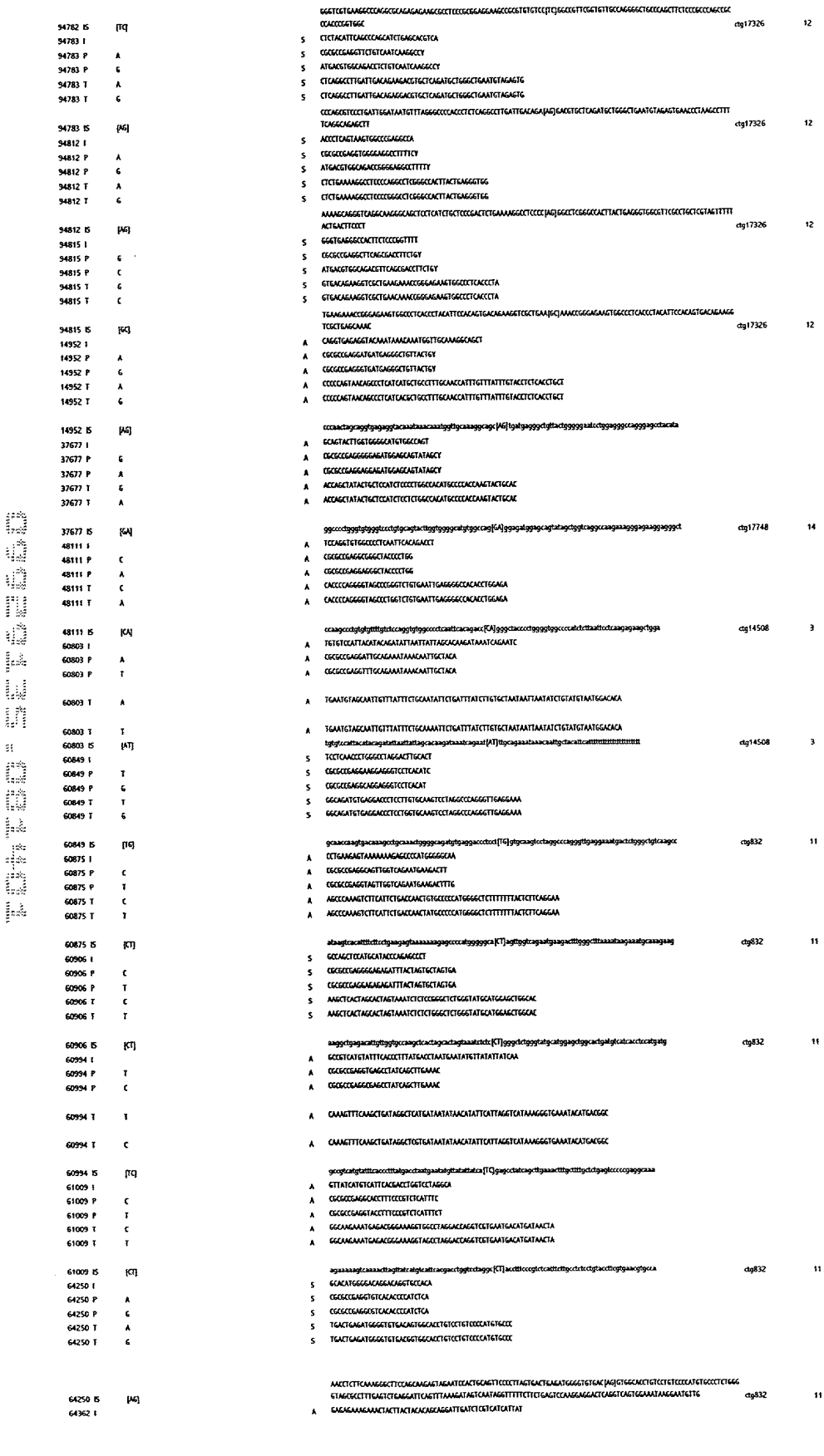


FIGURE 129C

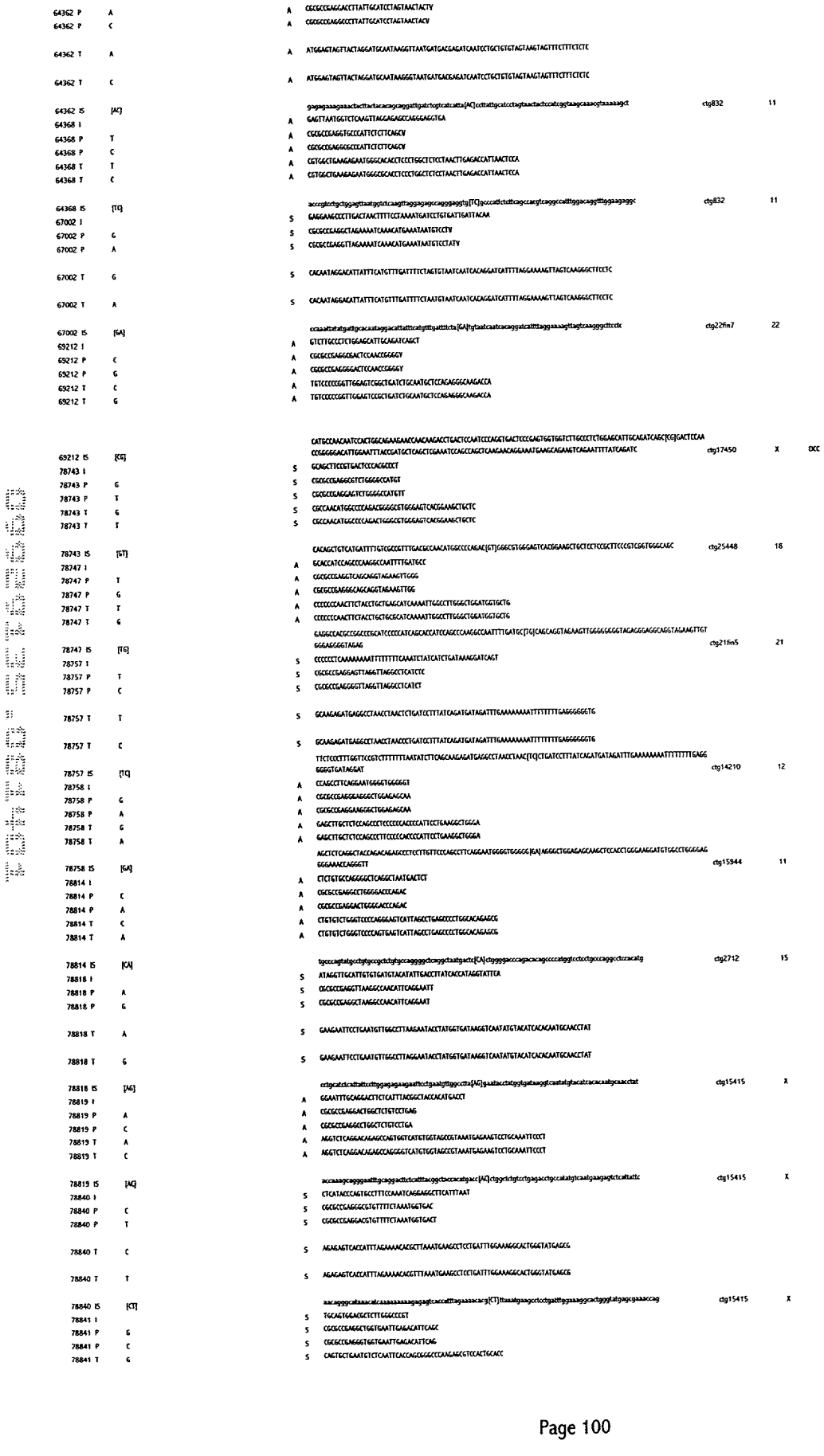


FIGURE 129C

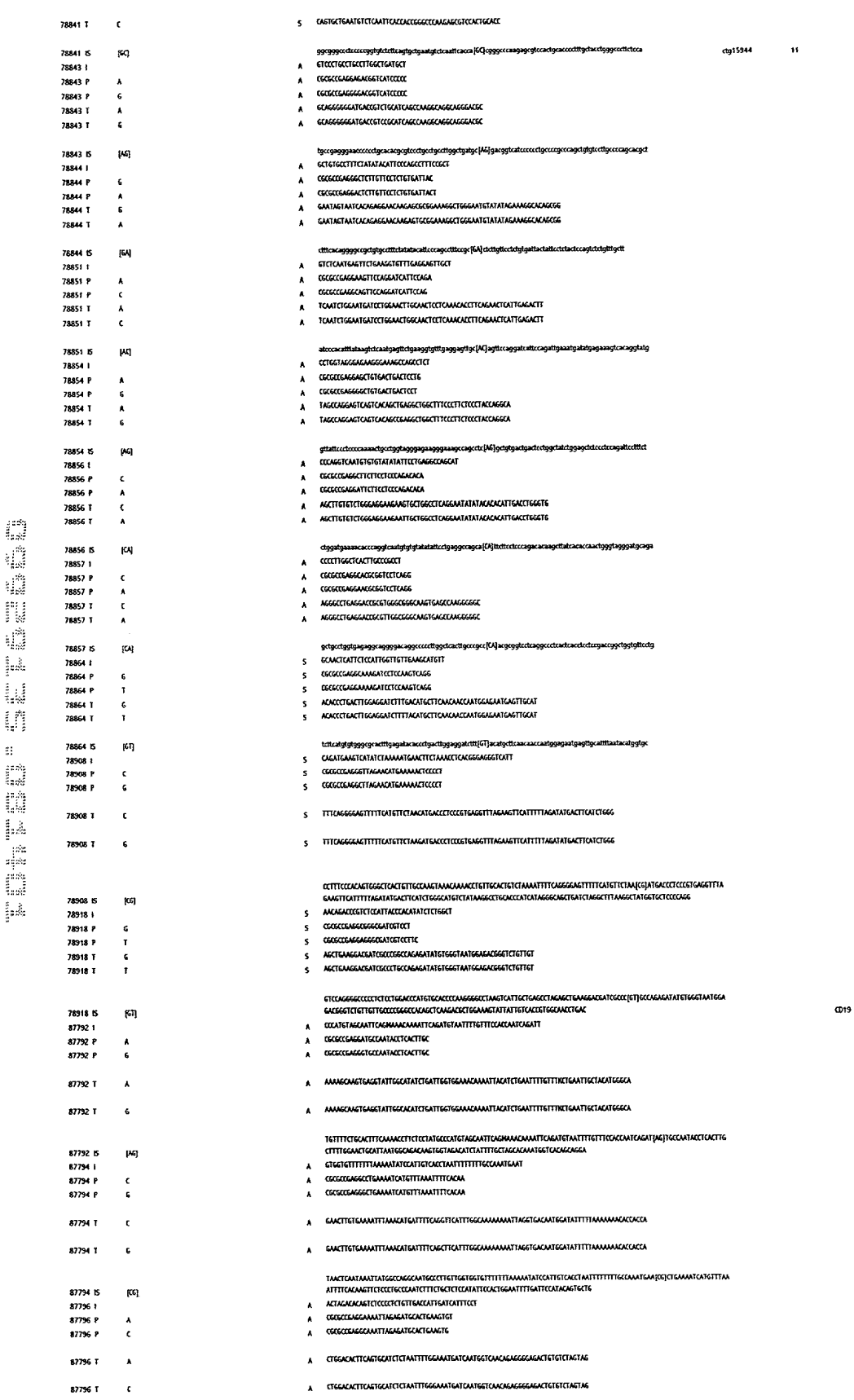
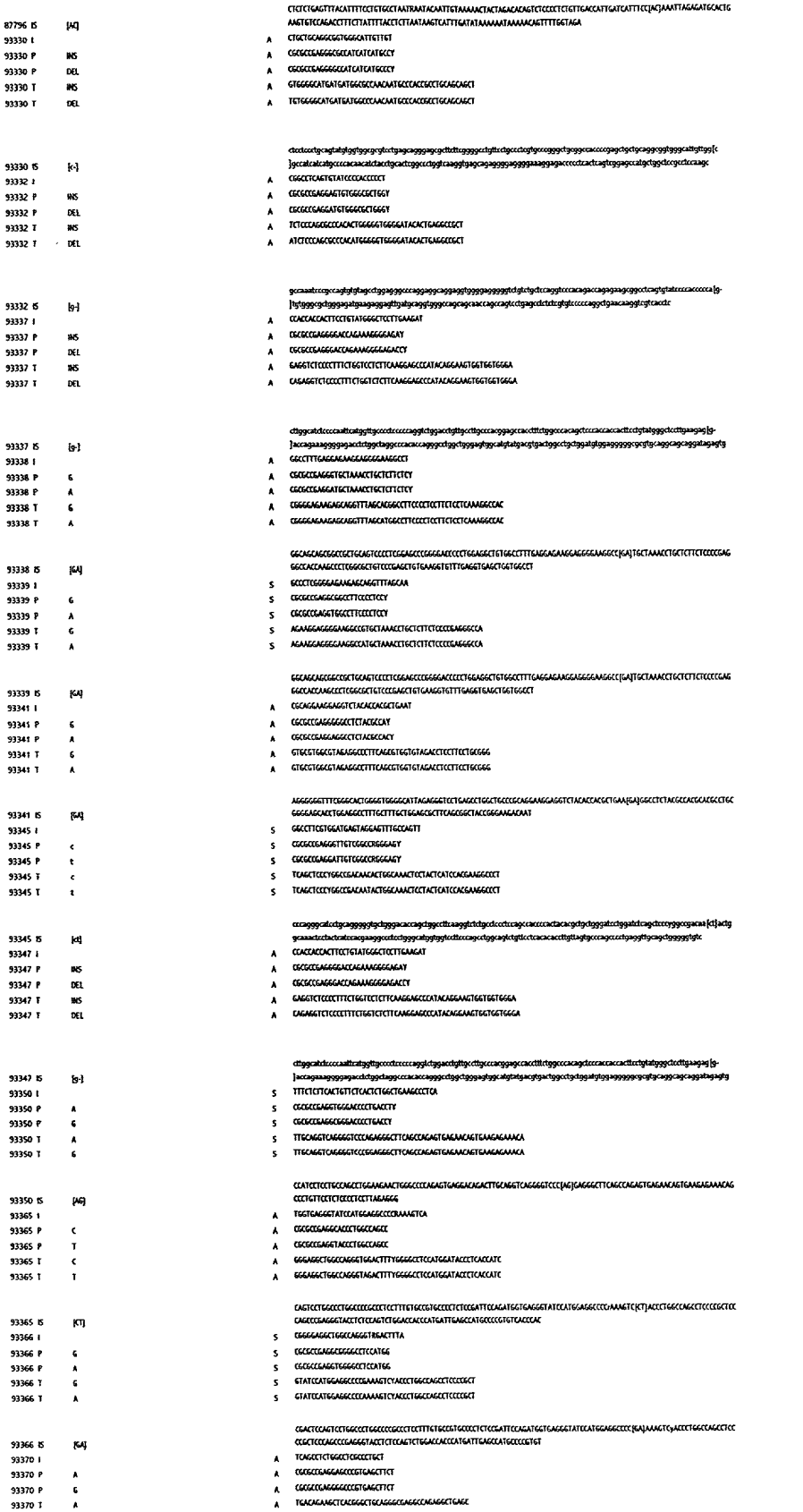
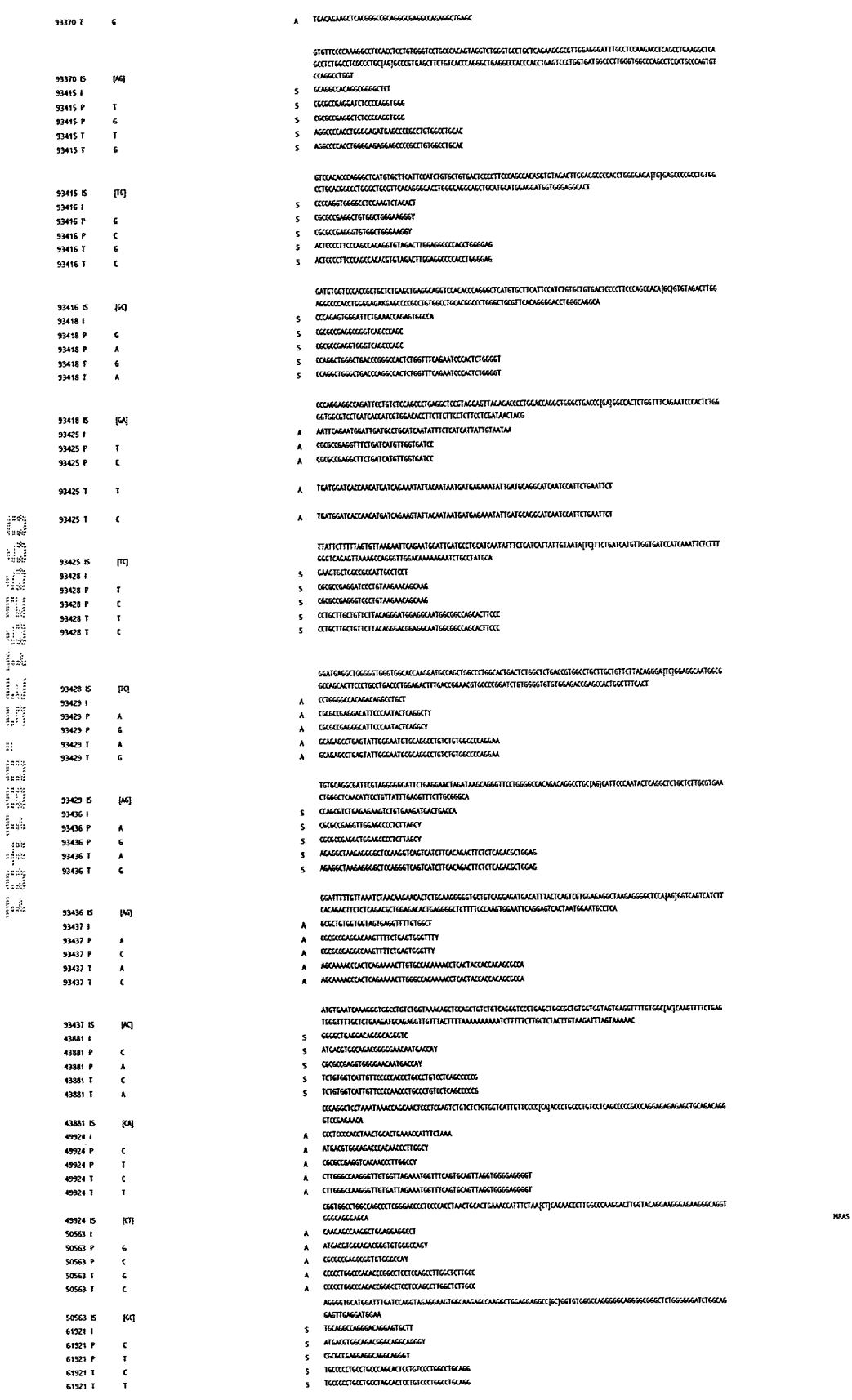


FIGURE 129C




93370 T G A TGACAGAAGCTCACGGGCCGCAGGGCGAGGCCAGAGGCTGAGC
GTGTTCCCCAAAGCCTCCACCTCCTGTGGGTCCTGCCCACAGTAGGTCTGGGTGCCTGCTCAGAAGGGCGTTGGAGGGATTTGCCTCCAAGACCTCAGCCTGAAGGCTCA
GCCTCTGGCCTCGCCCTGC[AG]GCCCGTGAGCTTCTGTCACCCAGGGCTGAGGCCCACCCACCTGAGTCCCTGGTGATGGCCCTTGGGTGGCCCAGCCTCCATGCCCAGTGT
93370 IS [AG] CCAGGCCTGGT
93415 I S GCAGGCCACAGGCGGGGCTCT
93415 P T S CGCGCCGAGGATCTCCCCAGGTGGG
93415 P G S CGCGCCGAGGCTCTCCCCAGGTGGG
93415 T T S AGGCCCCACCTGGGGCAGATGAGCCCCGCCTGTGGCCTGCAC
93415 T G S AGGCCCCACCTGGGGCAGAGAGCCCCGCCTGTGGCCTGCAC
GTCCACACCCAGGGCTCATGTGCTTCATTCCATCTGTGCTGTGACTCCCCTTCCCAGCCACAGTGCTAGACTTGCAGGCCCCACCTGGGGAGA[TG]GAGCCCCGCCTGTGG
93415 IS [TG] CCTGCACGGCCTGGGCTGCGTTCACAGGGGACCTGGGCAGGCAGCTGCATGCATGGAGGATGGTGGGAGGCACT
93416 I S CCCCAGGTGGGGCCTCCAAGTCTACACT
93416 P G S CGCGCCGAGGCTGTGGCTGGGAAGGGY
93416 P C S CGCGCCGAGGGTGTGGCTGGGAAGGY
93416 T G S ACTCCCCTTCCCAGCCACAGGTGTAGACTTGGAGGCCCCACCTGGGGAG
93416 T C S ACTCCCCTTCCCAGCCACACGTGTAGACTTGGAGGCCCCACCTGGGGAG
GATGTGGTCCCACCGCTGCTCTGAGCTGAGGCAGGTCCACACCCAGGGCTCATGTGCTTCATTCCATCTGTGCTGTGACTCCCCTTCCCAGCCACA[GC]GTGTAGACTTGG
93416 IS [GC] AGGCCCCACCTGGGGAGAGAGCCCCGCCTGTGGCCTGCACGGCCCTGGGCTGGGTTCACAGGGGACCTGGGCAGGCA
93418 I S CCCAGAGTGGGGATTCTGAAACCAGAGTGGCCA
93418 P G S CGCGCCGAGGCCGGGTCAGCCCAGC
93418 P A S CGCGCCGAGGTGGGTCAGCCCAGC
93418 T G S CCAGGCTGGGCTGACCCGGGCCACTCTGGTTTCAGAATCCCACTCTGGGGT
93418 T A S CCAGGCTGGGCTGACCCAGGCCACTCTGGTTTCAGAATCCCACTCTGGGGT
CCCAGGAGGCCAGATTCCTCTCTCCAGCCCTGAGGCTCCGTAGGAGTTACAGACCCCTGGACCAGGCTGGGCTGACCC[GA]GGCCACTCTGGTTTCAGAATCCCACTCTGG
93418 IS [GA] GGTGGCGTCCTCATCACCATCGTGGACACCTTCTTCTTCCTCTTCCTCGATAACTACG
93425 I A AATTCAGAATGGATTGATGCCTGCATCAATATTTCTCATCATTATTGTAATAA
93425 P T A CGCGCCGAGGTTTCTGATCATGTTGGTGATCC
93425 P C A CGCGCCGAGGCTTCTGATCATGTTGGTGATCC
93425 T T A TGATGGATCACCAACATGATCAGAAATATTACAATAATGATGAGAAATATTGATGCAGGCATCAATCCATTCTGAATTCT
93425 T C A TGATGGATCACCAACATGATCAGAAGTATTACAATAATGATGAGAAATATTGATGCAGGCATCAATCCATTCTGAATTCT
TTATTCTTTTTAGTGTTAAGAATTCAGAATGGATTGATGCCTGCATCAATATTTCTCATCATTATTGTAATA[TC]TTCTGATCATGTTGGTGATCCATCAAATTCTCTTT
93425 IS [TC] GGGTCAGAGTTAAAGCCAGGGTTGGACAAAAAGAATCTGCCTATGCA
93428 I S GAAGTGCTGGCCGCCATTGCCTCCT
93428 P T S CGCGCCGAGGATCCCTGTAAGAACAGCAAG
93428 P C S CGCGCCGAGGGTCCCTGTAAGAACAGCAAG
93428 T T S CCTGCTTGCTGTTCTTACAGGGATGGAGGCAATGGCGGCCAGCACTTCCC
93428 T C S CCTGCTTGCTGTTCTTACAGGGACGGAGGCAATGGCGGCCAGCACTTCCC
GGATGAGGCTGGGGGTGGGTGGCACCAAGGATGCCAGCTGGCCCTGGCACTGACTCTGGCTCTGACCGTGGCCTGCTTGCTGTTCTTACAGGGA[TC]GGAGGCAATGGCG
93428 IS [TC] GCCAGCACTTCCCTGCCTGACCCTGGAGACTTGACCGGAACGTGCCCCGGATCTGTGGGGTGTGTGGAGACCGAGCCACTGGCTTTCACT
93429 I A CCTGGGGCCACAGACAGGCCTGCT
93429 P A A CGCGCCGAGGACATTCCCAATACTCAGGCTY
93429 P G A CGCGCCGAGGGCATTCCCAATACTCAGGCY
93429 T A A GCAGAGCCTGAGTATTGGGAATGTGCAGGCCTGTCTGTGGCCCCAGGAA
93429 T G A GCAGAGCCTGAGTATTGGGAATGCGCAGGCCTGTCTGTGGCCCCAGGAA
TGTGCAGGCGATTCGTAGGGGGGATTCTGAGGAACTAGATAAGCAGGGTTCCTGGGGCCACAGACAGGCCTGC[AG]CATTCCCAATACTCAGGCTCTGCTCTTGCGTGAA
93429 IS [AG] CTGGGCTCAACATTCCTGTTATTTGAGGTTTCTTGCGGGCA
93436 I S CCAGCGTCTGAGAGAAGTCTGTGAAGATGACTGACCA
93436 P A S CGCGCCGAGGTTGGAGCCCCTCTTAGCY
93436 P G S CGCGCCGAGGCTGGAGCCCCTCTTAGCY
93436 T A S AGAGGCTAAGAGGGGCTCCAAGGTCAGTCATCTTCACAGACTTCTCTCAGACGCTGGAG
93436 T G S AGAGGCTAAGAGGGGCTCCAGGGTCAGTCATCTTCACAGACTTCTCTCAGACGCTGGAG
GGATTTTGTTAAATCTAACAAGAACACTCTGGAAGGGGGTGCTGTCAGGAGATGACATTTACTCAGTCGTGCGAGAGGCTAAGAGGGGCTCCA[AG]GGTCAGTCATCTT
93436 IS [AG] CACAGACTTCTCTCAGACGCTGGAGACACTGAGGGGCTCTTTTCCCAAGTGGAATTCAGGAGTCACTAATGGAATGCCTCA
93437 I A GCGCTGTGGTGGTAGTGAGGTTTTGTGGCT
93437 P A A CGCGCCGAGGACAAGTTTTCTGAGTGGGTTTY
93437 P C A CGCGCCGAGGCCAAGTTTTCTGAGTGGGTTY
93437 T A A AGCAAAACCCACTCAGAAAACTTGTGCCACAAAACCTCACTACCACCACAGCGCCA
93437 T C A AGCAAAACCCACTCAGAAAACTTGGGCCACAAAACCTCACTACCACCACAGCGCCA
ATGTGAATCAAGGGTCGCCTGTCTGGTAAACAGCTCCAGCTGTCTGTCAGGGTCCCTGAGCTGCGCGCTGTGGTGGTAGTGAGGTTTTGTGGGC[AC]CAAGTTTTCTGAG
93437 IS [AC] TGGGTTTTGCTCTGAAGATGCAGAGGTTGTTTACTTTTAAAAAAAAAATCTTTTTCTTGCTCTACTTGTAAGATTTAGTAAAAAC
43881 I S GGGGCTGAGGACAGGGCACGGTC
43881 P C S ATGACGTGGCAGACGGGGGAACAATGACCAY
43881 P A S CGCGCCCAGGTGGGGAACAATGACCAY
43881 T C S TCTGTGGTCATTGTTCCCCCACCCTGCCCTGTCCTCAGCCCCCG
43881 T A S TCTGTGGTCATTGTTCCCCAACCCTGCCCTGTCCTCAGCCCCCG
CCCAGGCTCCTAAATAAACCAGCAACTCCCTGAGTCTGTCTCTGTGGTCATTGTTCCCC[CA]ACCCTGCCCTGTCCTCAGCCCCGCCCAGGAGAGAGAGCTGCAGACAGG
43881 IS [CA] GTCCGAGAACA
49924 I A CCCTCCCCACCTAACTGCACTGAAACCATTTCTAAA
49924 P C A ATGACGTGGCAGACCCACAACCCTTGGCY
49924 P T A CGCGCCGAGGTCACAACCCTTGGCCY
49924 T C A CTTGGGCCAAGGGTTGTGGTTAGAAATGGTTTCAGTGCAGTTAGGTGGGGAGGGGT
49924 T T A CTTGGGCCAAGGGTTGTGATTAGAAATGGTTTCAGTGCAGTTAGGTGGGGAGGGGT
CGGTGGCCTGGCCAGCCCTCGGGAGCCCTCCCCACCTAACTGCACTGAAACCATTTCTAA[CT]CACAACCCTTGGCCCAAGGACTTGGTACAGGAAGGAGAAAGGCAGGT
49924 IS [CT] GGGCAGGGAGCA MRAS
50563 I A CAAGAGCCAAGGCTGCAGGAGGCCT
50563 P G A ATGACGTGGCAGACGGGTGTGGGCCAGY
50563 P C A CGCGCCGAGGCGGTGTGGGCCAY
50563 T G A CCCCCTGGCCCACACCCGGCCTCCTCCAGCCTTGGCTCTTGCC
50563 T C A CCCCCTGGCCCACACCGGGCCTCCTCCAGCCTTGGCTCTTGCC
AGGGGTGCATGGATTTGATCCAGGTAGAGGAAGTGGCAAGAGCCAAGGCTGCAGGAGGCC[GC]GGTGTGGGCCAGGGGGCAGGGGCGGGCTCTGGGGGGATCTGGCAG
50563 IS [GC] GAGTTCAGCATGGAA
61921 I S TGCAGGCCAGGGACAGGAGTGCTT
61921 P C S ATGACGTGGCAGACGGCAGGCAGGGY
61921 P T S CGCGCCCAGGAGGCAGGCAGGGY
61921 T C S TGCCCCCTGCCTGCCCAGCACTCCTGTCCCTGGCCTGCAGG
61921 T T S TGCCCCCTGCCTGCCTAGCACTCCTGTCCCTGGCCTGCAGG

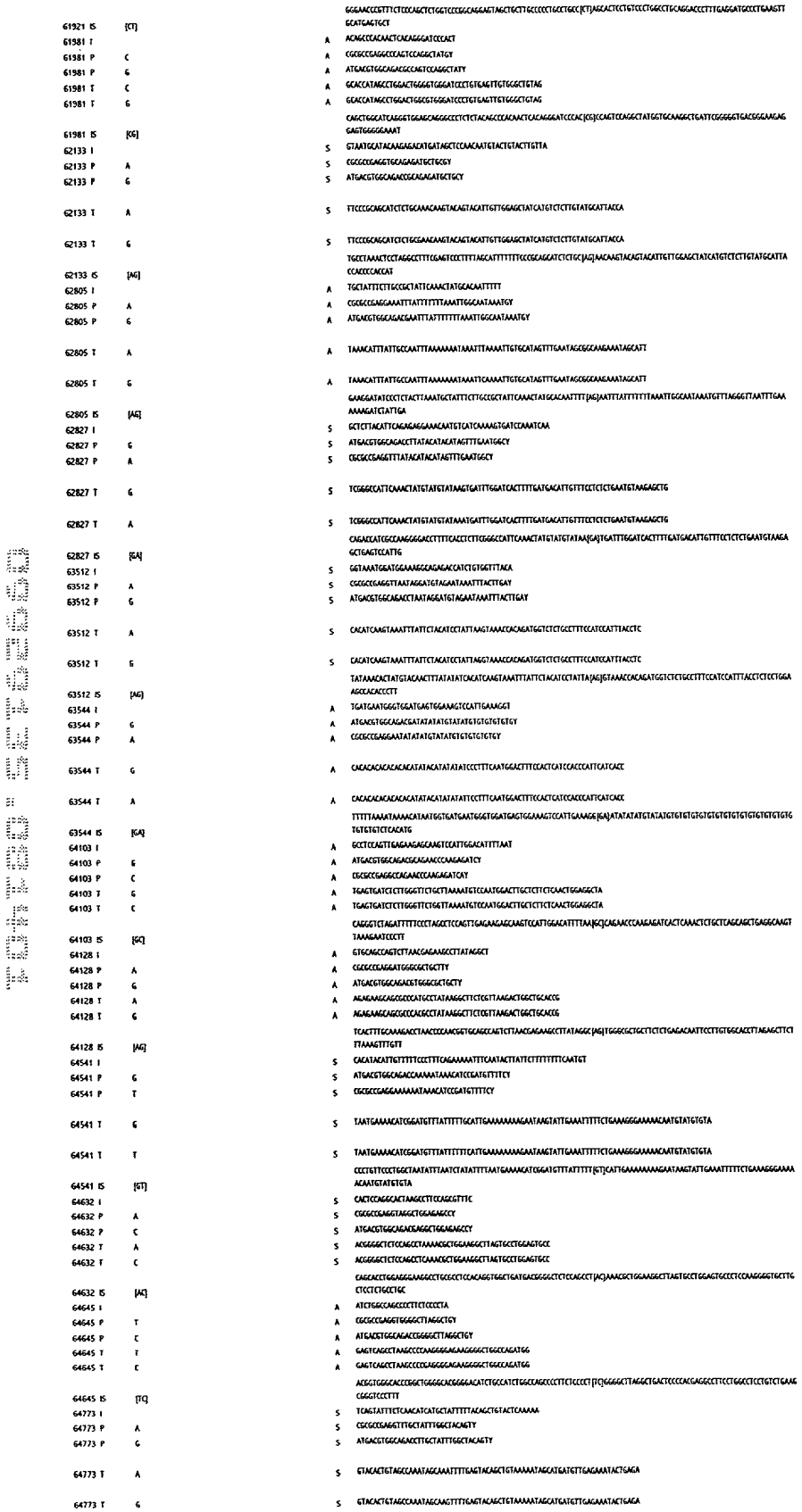
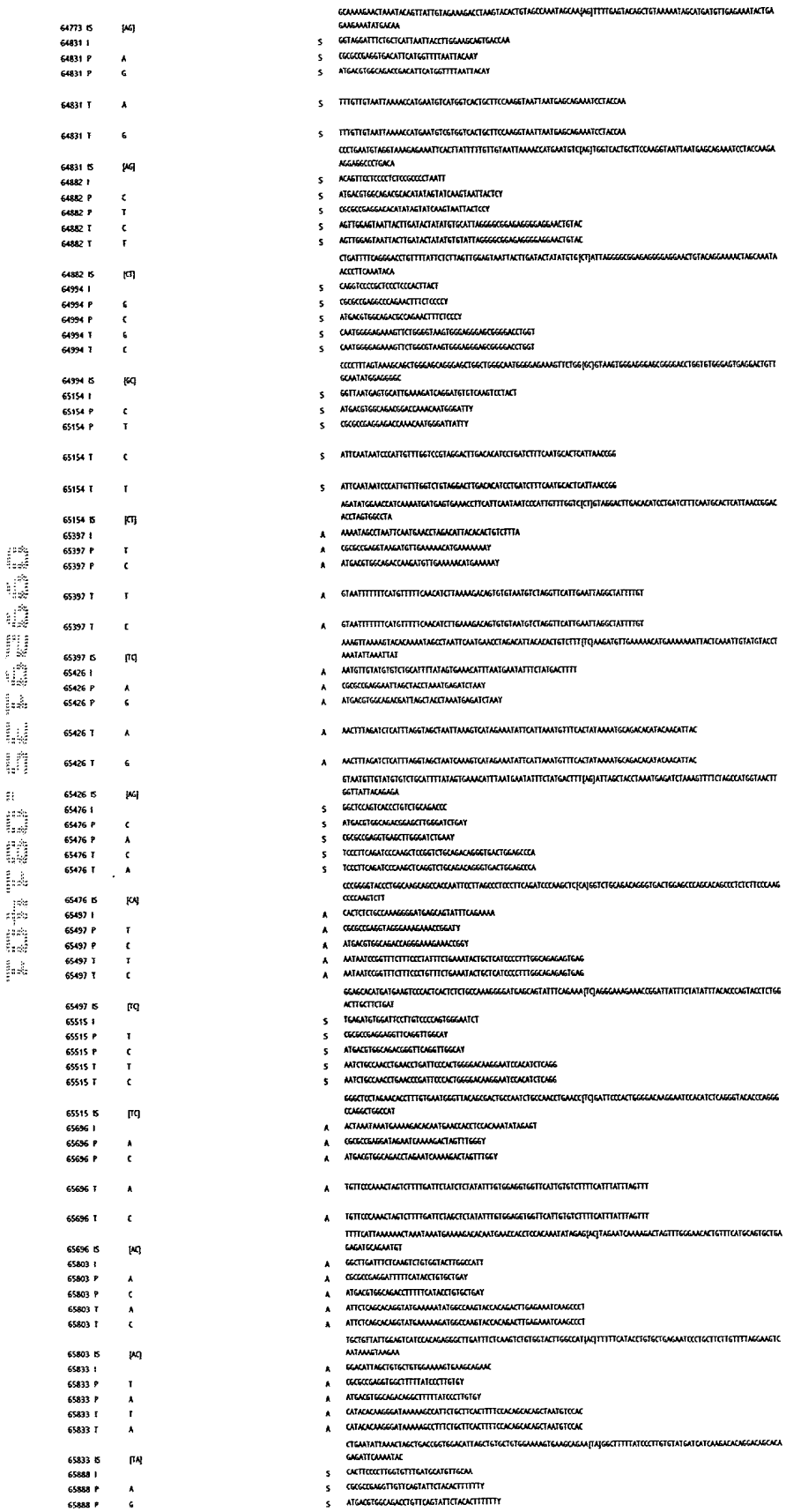
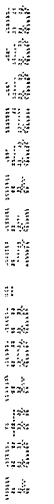


FIGURE 129C





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65888 T   A   S   TTCCAAAAAAGTGTAGAATACTGAACAATGCAACATGCATCAAACACCAAGGGCAAGTGGT
65888 T   G   S   TTCCAAAAAAGTGTAGAATACTGAACAGTGCAACATGCATCAAACACCAAGGGCAAGTGGT
                  AACTCCCAACCTGAAAAGACATAAACGCATGTATTCCAAAAAAAGTGTAGAATACTGAACA[AG]TGCAACATGCATCAAACACCAAGGGCAAGTGGTCATCCTGGATGAT
65888 IS  [AG]      GCTTCGAGAGGGAA
65907 I           A   CATTTCCTTTTATCTGAGGACCATAAAGGTCTGAGAACAGA
65907 P   T       A   CGCGCCGAGGTGGGCAATTTGTTTGGAT
65907 P   C       A   ATGACGTGGCAGACCGGGCAATTTGTTTGGAT
65907 T   T       S   GGACCATAAAGGTCTGAGAACAGTGGGCAATTTGTTTGGAGCAAGAAAGGGAACTCAAATGTCA
65907 T   C       A   TTGCTCCAAACAAATTGCCCGCTGTTCTCAGACCTTTATGGTCCTCAGATAAAAGGAAATGAG
                  GCCACTTTGCTCAAATTACTCATTTCCTTTTATCTGAGGACCATAAAGGTCTGAGAACAG[TC]GGGGCAATTTGTTTGGAGCAAGAAAGGGAACTCAAATGTCAAGAACT
65907 IS  [TC]      CAATCATTGGGTCA
65978 I           A   GCCAGTCTGAATCCTTGAATTCCCATCGTAATTCTTTATTTTGTTTGTTCTTA
65978 P   T       A   CGCGCCGAGGTTTAAGTGACATTAAATTAGATTTTAAATGY
65978 P   C       A   ATGACGTGGCAGACCTTAAGTGACATTAAATTAGATTTTAAATGY
65978 T   T       A   TGTCCATTTAAAATCTAATTTAATGTCACTTAAAAAGAACAAACAAAATAAAGAATTACGATGGGAATTCAAGGATTCAGACTGGCAA
65978 T   C       A   TGTCCATTTAAAATCTAATTTAATGTCACTTAAGAAGAACAAACAAAATAAAGAATTACGATGGGAATTCAAGGATTCAGACTGGCAA
                  GTCACTTTGCCAGTCTGAATCCTTGAATTCCCATCGTAATTCTTTATTTTGTTTGTTCTT[TC]TTAAGTGACATTAAATTAGATTTTAAATGGACAAAAAGTTGGTCCTT
65978 IS  [TC]      TCTTCAGTGTGGT
66044 I           A   TGGAACCAAGCAACCATTTCTTCTCAAAGCATCT
66044 P   G       A   ATGACGTGGCAGACGTAGGACCAGGTTTTATTCATY
66044 P   A       A   CGCGCCGAGGATAGGACCAGGTTTTATTCATCY
66044 T   G       A   GTGGGATGAATAAAACCTGGTCCTACGATGCTTTGAGAAGAAATGGTTGCTTGGTTCCAAA
66044 T   A       A   GTGGGATGAATAAAACCTGGTCCTATCATGCTTTGAGAAGAAATGGTTGCTTGGTTCCAAA
                  AGGAAAACCAAGAAGGAAAGAACTTTTTGGAACCAAGCAACCATTTCTTCTCAAAGCATC[GA]TAGGACCAGGTTTTATTCATCCCACCTTGCCTGCAATCATCCAGTAA
66044 IS  [GA]      TCCGTCAGAAAAT
66090 I           S   GGACACCAGGACACACTACATTCTGATAACAAAGAGT
66090 P   C       S   ATGACGTGGCAGACGGAGAAAATGAAATGGTGCY
66090 P   G       S   CGCGCCGAGGCGAGAAAATGAAATGGTGCY
66090 T   C       S   CCCAGCACCATTTCATTTTCTCGCTCTTTGTTATCAGAATGTAGTGTGTCCTGGTGTCCAG
66090 T   G       S   CCCAGCACCATTTCATTTTCTCGCTCTTTGTTATCAGAATGTAGTGTGTCCTGGTGTCCAG
                  TAGATGTTGATTACTTGTATTTCACAGTGTATAGAAACCCCAGCACCATTTCATTTTCTC[CG]CTCTTTGTTATCAGAATGTAGTGTGTCCTGGTGTCCAGATTTTTACG
66090 IS  [CG]      GGTTTATCAAGTA
66136 I           S   TTCTATATAACTTACACATGTAGAATATTTGACCAATTCATTACTGATAAACATTTAAGTT
66136 P   G       S   ATGACGTGGCAGACCTTTAAAATATTTGTTCACATGATAAACY
66136 P   T       S   CGCGCCGAGGATTTTAAAATATTTGTTCACATGATAAACY
66136 T   G       S   CTTTGTTTATCATGTGAACAAATATTTTAAAAGACTTAAATGTTTATCAGTAATGAATTGGTCAAATATTCTACATGTGTAAGTTATATAGAA
66136 T   T       S   CTTTGTTTATCATGTGAACAAATATTTTAAAATACTTAAATGTTTATCAGTAATGAATTGGTCAAATATTCTACATGTGTAAGTTATATAGAA
                  GAACTCTGGACAAGGACGTGCATTTCAGCTTTGTTTATCATGTGAACAAATATTTTAAAA[GT]ACTTAAATGTTTATCAGTAATGAATTGGTCAAATATTCTACATGTG
66136 IS  [GT]      TAAGTTATATAGAA
66202 I           S   ACACCTTTGCTGATGGGCATCTGTGTCACTAAATATGGA
66202 P   G       S   ATGACGTGGCAGACCCTTATTCTATGCATTCTCTCTAY
66202 P   A       S   CGCGCCGAGGTCTTATTCTATGCATTCTCTCTAGY
66202 T   G       S   AGAGCTAGAGAGAATGCATAGAATAAGGCCATATTTAGTGACACAGATGCCCATCAGCAAAGGTGTGA
66202 T   A       S   AGAGCTAGAGAGAATGCATAGAATAAGACCATATTTAGTGACACAGATGCCCATCAGCAAAGGTGTGA
                  CATGGGTCAGATACAGGCCATGAATGAGAAGAGAGAGCTAGAGAGAATGCATAGAATAAG[GA]CCATATTTAGTGACACAGATGCCCATCAGCAAAGGTGTGAAACAG
66202 IS  [GA]      TTTCCAATGTGTCAC
66234 I           A   GGATGGAAAGGTAGGGGCAATATTTTGAGTATTAAGTAGATT
66234 P   G       A   ATGAGTGGCAGACGTGTTATTCATTGTATAAAAGTTAACTTTY
66234 P   A       A   CGCGCCGAGGATGTTATTCATTGTATAAAAGTTAACTTTY
66234 T   G       A   TATAAAAAGTTAACTTTTATACAATGAATAACACATCTACTTAATACTCAAAATATTGCCCCTACCTTCCATCCCT
66234 T   A       A   TATAAAAAGTTAACTTTTATACAATGAATAACATATCTACTTAATACTCAAAATATTGCCCCTACCTTTCCATCCCT
                  AATGACTCAAAATTAGAAGGGATGGAAAGGTAGGGGCAATATTTTGAGTATTAAGTAGAT[GA]TGTTATCATTGTATAAAAGTTAACTTTTTATAGGTCTATTTGAA
66234 IS  [GA]      GGTTAGATGGCTATA
67489 I           S   TAATTCTAGAGAGAAATATTTTTTGTCTTTAAATTTTTTTTTTAAATTTTTACTGAGGGT
67489 P   C       S   ATGACGTGGCAGACGGCACAAGACAGATATTTTTAATAY
67489 P   T       S   CGCGCCGAGGAGCACAAGACAGATATTTTTAATAATY
67489 T   C       S   TTTAATTATTAAAAATATCTGTCTTGTGCCCCCTCAGTAAAAATTTAAAAAAAAAATTTAAAGAACAAAAAATATTTGTCTCTAGAATTA
67489 T   T       S   TTTAATTATTAAAAATATCTGTCTTGTGCTCCCTCAGTAAAAATTTAAAAAAAAAATTTAAAGAACAAAAAATATTTGTCTCTAGAATTA
                  CAGGCGTGAGCCACCATGCCCGGCCCATATGTTTAATTATTAAAAATATCTGTCTTGTGC[CT]CCCTCAGTAAAAATTTAAAAAAAAAATTTAAAGAACAAAAAATATT
67489 IS  [CT]      TGTCTCTAGAATTA
67587 I           A   GAATTTGTTTTCTGGTATTGCTCACCAAGGATTTCTGATT
67587 P   G       A   ATGACGTGGCAGACGTAATACTGTGGAAGCTATATTTAGY
67587 P   A       A   CGCGCCGAGGATAATACTGTGGAAGCTATATTTAGGY
67587 T   G       A   CAGCCCTAAATATAGCTTCCACAGTATTACATCAGAAATCCTTGGTGAGCAATACCAGAAAACAAATTCAG
67587 T   A       A   CAGCCCTAAATATAGCTTCCACAGTATTATATCAGAAATCCTTGGTGAGCAATACCAGAAAACAAATTCAG
                  GCCTTCATCTGGTTTTTTTCTGAATTTGTTTCTGGTATTGCTCACCAAGGATTTCTGAT[GA]TAATACTGTGGAAGCTATATTTAGGGCTGTCAAATACCGGTGTTTTT
67587 IS  [GA]      TTAAAAAAATACT
67657 I           S   GCTTTTTCTTCATTGAGCAAAAAATATTGACCCCATTTACATC
67657 P   C       S   ATGACGTGGCAGACGTTCTGGTCAACATGATTAAAAY
67657 P   A       S   CGCGCCGAGGTTTCTGGTCAACATGATTAAAAGY
67657 T   C       S   AAGACTTTTAATCATGTTGACCAGAACATGTAAATGGGGTCAATATTTTTTGCTCAATGAAGAAAAAAGCAG
67657 T   A       S   AAGACTTTTAATCATGTTGACCAGAAAATGTAAATGGGGTCAATATTTTTTGCTCAATGAAGAAAAAAGCAG
                  TAGCAGCACTTTCTCTTAGCTACTGCAGCCAAGCAAGACTTTTAATCATGTTGACCAGAA[CA]ATGTAAATGGGGTCAATATTTTTTGCTCAATGAAGAAAAAAGCAGT
67657 IS  [CA]      GATTGAATTCCAGC
67831 I           A   GGATCCTTCAGAAAGCACTCTCCACATTAGTAATAATGCTATAGCAGTT
67831 P   G       A   ATGACGTGGCAGACGTCCCCCCTTATTTGGGY
67831 P   A       A   CGCGCCGAGGATCCCCCCTTATTTGGGY
67831 T   G       A   CCATCCCAAATAAGGGGGGACACTGCTATAGCATTATTACTAATGTGGAGAGTGCTTTCTGAAGGATCCAT
67831 T   A       A   CCATCCCAAATAAGGGGGGATACTGCTATAGCATTATTACTAATGTGGAGAGTGCTTTCTGAAGGATCCAT
                  CACCTGTGAAATGGATCCTTCAGAAAGCACTCTCCACATTAGTAATAATGCTATAGCAGT[GA]TCCCCCCTTATTTGGGGATGGGGCAGTTGTCTTACCGAGTTGTGAGGC
67831 IS  [GA]      TCAGGTCCCCCCA
68085 I           A   CGATTTTCATTTCATGTATGTTTTCTCCCAGGGTTGATTGC
68085 P   T       A   CGCGCCGAGGTTTTTTTCAATCACTGCCACY
```

FIGURE 129C



FIGURE 129C

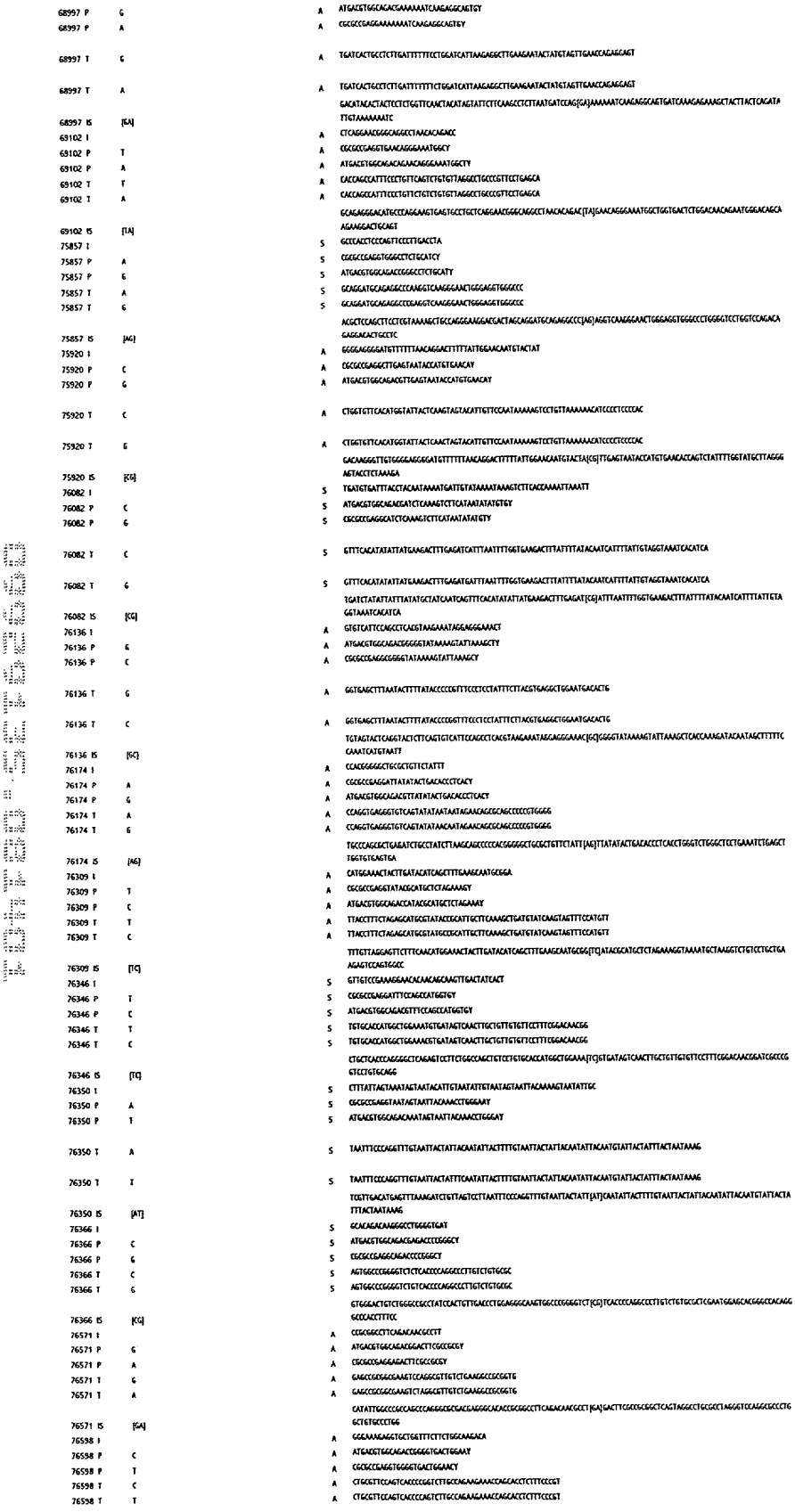


FIGURE 129C

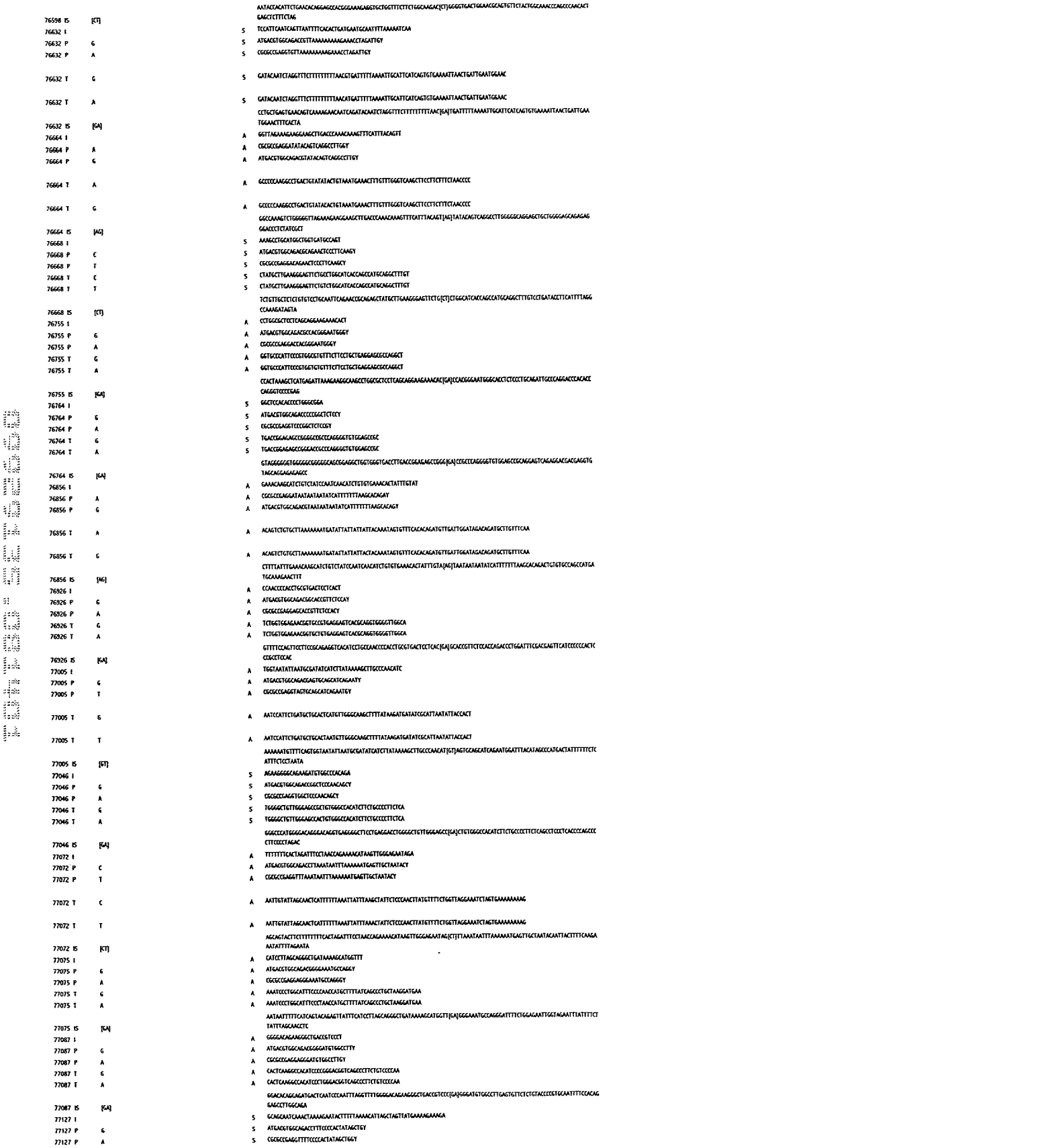
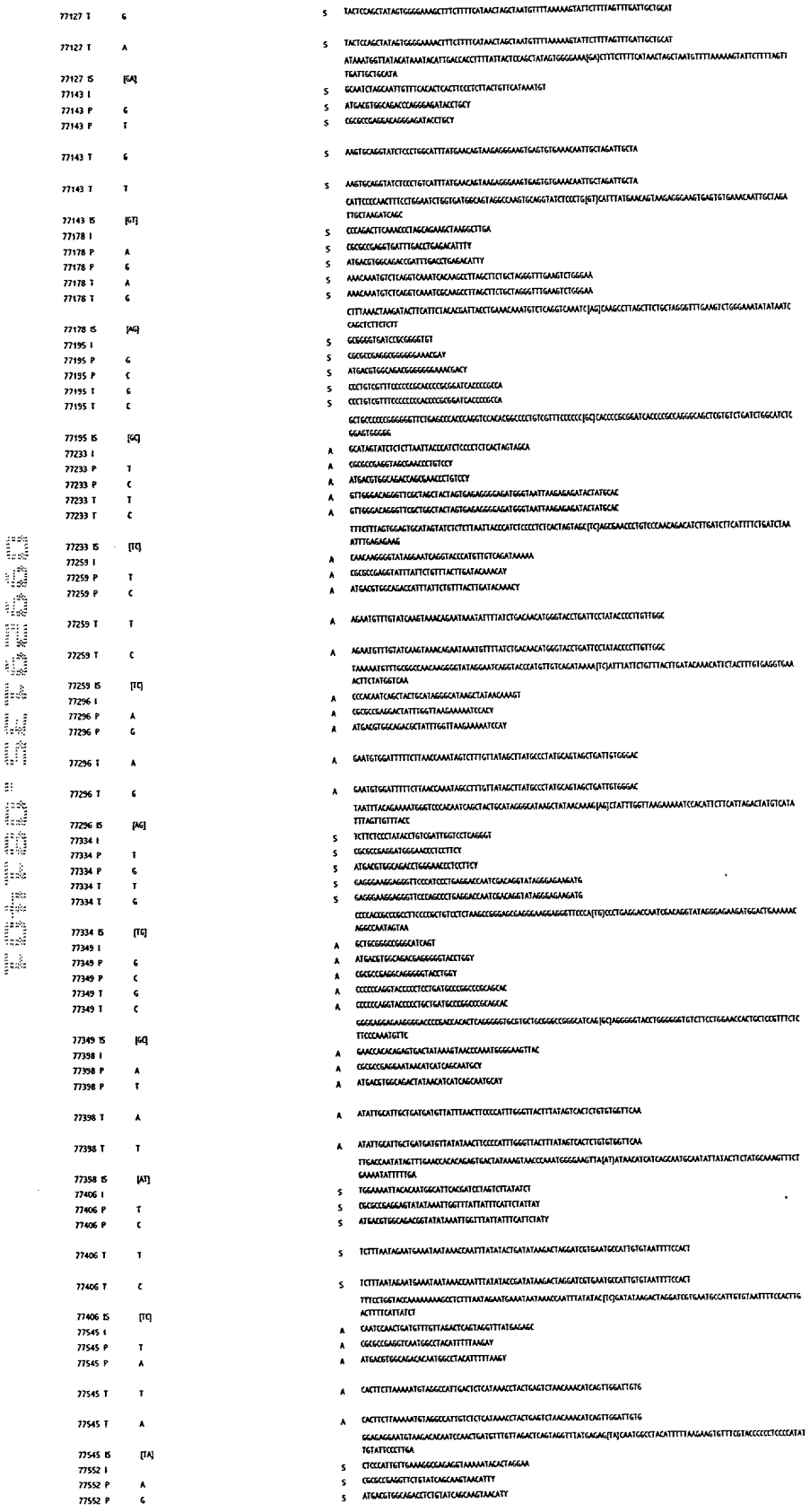
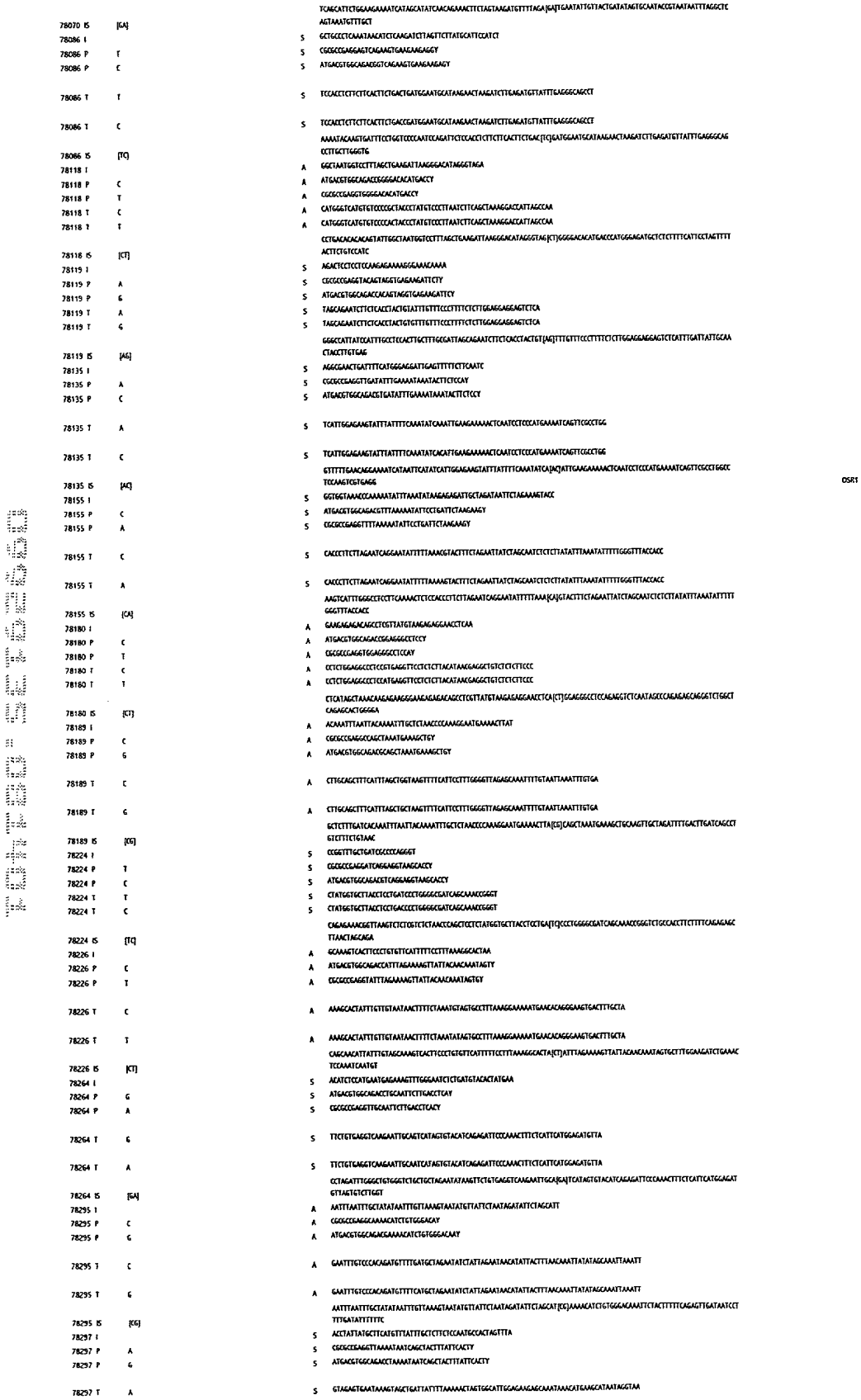


FIGURE 129C



77552 T	A	S	CCAAAATGTTACTTGCTGATACAGAATCCTAGTGTATTTTTACCTCTCGCCTTTCAACAATGGGAGCA	
77552 T	G	S	CCAAAATGTTACTTGCTGATACAGAGTCCTAGTGTATTTTTACCTCTCGCCTTTCAACAATGGGAGCA	
77552 IS	[AG]		GGTTTAGAGAAATATGATTTGTTGGATGCAAATCTCCAAAATGTTACTTGCTGATACAGA[AG]TCCTAGTGTATTTTTACCTCTCGCCTTTCAACAATGGGAGCAAGGA ACGGGACAGGGTGT	
77643 I		A	GCCGGGTTCCCGCAATACGCTCAGTTATAA	
77643 P	T	A	CGCGCCGAGTGAGGGTACGTCAGCY	
77643 P	C	A	ATGACGTGGCAGACCGAGGGTACGTCAGCY	
77643 T	T	A	AAGGGCTGACGTACCCTCATATAACTGAGCGTATTGCGGGAAACCCGGCAG	
77643 T	C	A	AAGGGCTGACGTACCCTCGTATAACTGAGCGTATTGCGGGAAACCCGGCAG	
77643 IS	[TC]		GGCAAAAGAAGCATGTGACTGGCTCCGTGCTGCCGGGTTCCCGCAATACGCTCAGTTATA[TC]GAGGGTACGTCAGCCCTTGGCTTCGCTCTTACACAGAGAATAAATCC AAAATGAACCACA	
77670 I		S	ACCTATTCAATAACTGAAAAAGACATTACCATAGTGCTTTACATTTTTAAAGTAATGA	
77670 P	A	S	CGCGCCCEAGGTTACAAGGTCTGGAATCCAY	
77670 P	G	S	ATGACGTGGCAGACCTACAAGGTCTGGAATCCAY	
77670 T	A	S	CAAATGGATTCCAGACCTTGTAACATTACTTTAAAAATGTAAAGCACTATGGTAATGTCTTTTCAGTTATTGAATAGGTGA	
77670 T	G	S	CAAATGGATTCCAGACCTTGTAGCATTACTTTAAAAATGTAAAGCACTATGGTAATGTCTTTTCAGTTATTGAATAGGTGA	
77670 IS	[AG]		GAACTTCTTATTAAATAGCGAAAACACGGTATCTGCTCCAAATGGATTCCAGACCTTGTA[AG]CATTACTTTAAAAATGTAAAGCACTATGGTAATGTCTTTTTCAGTT ATTGAATAGGTGAG	
77856 I		A	GAGAACCATGGGCCAAGCTACCTTGCCTAAAGT	
77856 P	G	A	ATGACGTGGCAGACGTGCCAGCCACCAY	
77856 P	A	A	CGCGCCGAGGATGCCAGCCACCAY	
77856 T	G	A	GGTGTGGTGGCTGGCACCTTTAGGCAAGGTAGCTTGGCCCATGGTTCTCCC	
77856 T	A	A	GGTGTGGTGGCTGGCATCTTTAGGCAAGGTAGCTTGGCCCATGGTTCTCCC	
77856 IS	[GA]		GTTTTGAGAACATTGGGTAAAATCAAGGGAGAACCATGGGCCAAGCTACCTTGCCTAAAG[GA]TGCCAGCCACCACACACCCAACTAAGTACCAGCTCAGCTGCAAGCTGTC ACTGAGTCACACT	
77905 I		S	CCCAAACCCACATAGAATGTGAATTGGAGTTTTAAAGAGGAAAAACAT	
77905 P	C	S	ATGACGTGGCAGACGCATTTTTCAAGAGAGAAGGY	
77905 P	G	S	CGCGCCGAGGCCATTTTTCAAGAGAGAAGGAY	
77905 T	C	S	TCTCTCCTTCTCTCTTGAAAAATGCTGTTTTTCCTCTTTAAAACTCCAATTCACATTCTATGTGGGTTTGGGAG	
77905 T	G	S	TCTCTCCTTCTCTCTTGAAAAATGGTGTTTTTCCTCTTTAAAACTCCAATTCACATTCTATGTGGGTTTGGGAG	
77905 IS	[CG]		AAGCAGTGCTGGCTTCTGGCGTTGTGGGAACCTGCCTCTCTCCTTCTCTTGAAAAATG[CG]TGTTTTTCCTCTTTAAAACTCCAATTCACATTCTATGTGGGTTTGGGA GACTTTTAAACT	
77943 I		A	CCCCGAGCAGCGGGGAGGCA	
77943 P	C	A	ATGACGTGGCAGACCGGGGAGCTGGCY	
77943 P	T	A	CGCGCCGAGGTGGGGAGCTGGCY	
77943 T	C	A	CCCCGCCAGCTCCCCGGCCTCCCCGCTGCTCGGGGGA	
77943 T	T	A	CCCCGCCAGCTCCCCAGCCTCCCCGCTGCTCGGGGGA	
77943 IS	[CT]		GCTGGGGTAGGTGGAGCCGGAAGAGAGCCAAGACTGTGTATCCCCCGAGCAGCGGGGAGGC[CT]GGGGAGCTGGCGGGGGGGCCTCAAGGGAACCCTTGCCCAGGACGG TGGACGGCAGGGTG	GME82
77944 I		A	GTGGGGGGTCCGTGGAGGCGA	
77944 P	T	A	CGCGCCGAGGTATCCCAACTTGTATCTGTCTY	
77944 P	C	A	ATGACGTGGCAGACCATCCCAACTTGTATCTGTCY	
77944 T	T	A	AGGTAGACAGATACAAGTTGGGATACGCCTCCACGGAACCCCCACAA	
77944 T	C	A	AGGTAGACAGATACAAGTTGGGATGCGCCTCCACGGAACCCCCACAA	
77944 IS	[TC]		TGGAGAGAGCTCATCAGAGTGGGGTAGGTATACCTTTCTTGTGGGGGGTCCGTGGAGGCG[TC]ATCCCAACTTGTATCTGTCTACCTATCTCTCTCTCTGTCTTTTCATG TGCCTTAATTTCT	
77966 I		S	GACACACCAGGCGCAGGGACACAGT	
77966 P	C	S	ATGACGTGGCAGACGCGGGCGCACGY	
77966 P	G	S	CGCGCCGAGGCCGGGCGCACGY	
77966 T	C	S	CACGCGTGCGCCCGCCTGTGTCCCTGCGCCTGGTGTGTCTG	
77966 T	G	S	CACGCGTGCGCCCGGCTGTGTCCCTGCGCCTGGTGTGTCTG	
77966 IS	[CG]		CACCCCCTTCTCCGCTCTCCAACTGCCTTTCACCTAGAAGCGCTCCAGCGCTGTGCGCCC[CG]CTGTGTCCCTGCGCCTGGTGTGTCTGTGGCCCCAGCCAGCCCCATGAGCT GGGCCCCTGA	
77979 I		S	CAGCAGCCCAGGGTCCCACATCACT	
77979 P	T	S	CGCGCCCAGGAGAGCCCTTGCCTGY	
77979 P	C	S	ATGACGTGGCAGACGGAGCCCTTGCCTY	
77979 T	T	S	GAGACAGGCAAGGGCTCTGTGATGTGGGACCCTGGGCTGCTGGC	
77979 T	C	S	GAGACAGGCAAGGGCTCCGTGATGTGGGACCCTGGGCTGCTGGC	
77979 IS	[TC]		CCTCTGGCTCTCGCTGGGCCACACCTGGCGGGTGGCGTCCAAGGAGACAGGCAAGGGCTC[TC]GTGATGTGGGACCCTGGGCTGCTGGCCTGGGAAGCAGCATCTCTACC AGGAGAGGCTGGG	
78004 I		S	CATTTTCTGGCTGCTGACTCTAATGCTATGTAACTTTTGGGAATTTTT	
78004 P	T	S	CGCGCCGAGGATAGTATTTATAGATTTCCCTTTTGACY	
78004 P	C	S	ATGACGTGGCAGACGTAGTATTTATAGATTTCCCTTTTGACY	
78004 T	T	S	AGTTGTCAAAAGGGAAATCTATAAATACTATAAAATTCCCAAAAGTTACATAGCATTAGAGTCAGCAGCCAGAAAATGGC	
78004 T	C	S	AGTTGTCAAAAGGGAAATCTATAAATACTACAAAATTCCCAAAAGTTACATAGCATTAGAGTCAGCAGCCAGAAAATGGC	
78004 IS	[TC]		CTTTCCCACATATAGTCTGCAAGTTTCTCTAGTTGTCAAAAGGGAAATCTATAAATACTA[TC]AAAATTCCCAAAAGTTACATAGCATTAGAGTCAGCAGCCAGAAAAT GGCAACTTACATCT	
78018 I		A	GTTGGTAGAAGAACAGAGCTCACCACATCTCTGGTT	
78018 P	G	A	ATGACGTGGCAGACGTGGAGGCAGAGGGY	
78018 P	A	A	CGCGCCGAGGATGGAGGGAGAGGGGY	
78018 T	G	A	TTTTCCCCTCTCCCTCCACACCAGAGATGTGGTGAGCTCTGTTCTCTACCAACCC	
78018 T	A	A	TTTTCCCCTCTCCCTCCATACCAGAGATGTGGTGAGCTCTGTTCTCTACCAACCC	
78018 IS	[GA]		GTGGCACTTTGTGTGTTGAGACTGGGTTGGTAGAAGAACAGAGCTCACCACATCTCTGGT[GA]TGGAGGGAGAAGGGGAAAAGAGCAGTATGTGAGGGCAGGTGCTCAG CTACTGCTTCCTTCT	FL121156
78067 I		A	CTCACTAGTAGAAAACATTGTTCCAGTTTCTTCCTTTGTACCTACTAGAGAGC	
78067 P	T	A	CGCGCCGAGGTGCTTTTCTGATCATGAAAGY	
78067 P	A	A	ATGACGTGGCAGACAGCTTTTCTGATCATGAAAGGY	
78067 T	T	A	GGCCCCTTTCATGATCAGAAAAGCACTCTCTAGTAGGTACAAAGGAAGAAACTGGAACAATGTTTTCTACTAGTGAGCA	
78067 T	A	A	GGCCCCTTTCATGATCAGAAAAGCTCTCTCTAGTAGGTACAAAGGAAGAAACTGGAACAATGTTTTCTACTAGTGAGCA	
78067 IS	[TA]		GCTCCTTGCTCACTAGTAGAAAACATTGTTCCAGTTTCTTCCTTTGTACCTACTAGAGAG[TA]GCTTTTCTGATCATGAAAGGGGCCATCTCATTTCCAGCGGTTAGCCA ACCCTCCTCCCA	
78070 I		A	TGGAAGAAAATCATAGCATATCAACAGAAACTTCTAGTAAGATGTTTTAGAT	
78070 P	G	A	ATGACGTGGCAGACGTGAATATTGTTACTGATATAGTGCY	
78070 P	A	A	CGCGCCGAGGATGAATATTGTTACTGATATAGTGCY	
78070 T	G	A	TATTGCACTATATCAGTAACAATATTCACTCTAAAACATCTTACTAGAAGTTTCTGTTGATATGCTATGATTTTCTTCCAGA	
78070 T	A	A	TATTGCACTATATCAGTAACAATATTCATTCTAAAACATCTTACTAGAAGTTTCTGTTGATATGCTATGATTTTCTTCCAGA	


TCAGCATTCTGGAAGAAAATCATAGCATATCAACAGAAACTTCTAGTAAGATGTTTTAGA[GA]TGAATATTGTTACTGATATAGTGCAATACCGTAATAATTTAGGCTC
78070 IS [GA] AGTAAATGTTTGCT
78086 I S GCTGCCCTCAAATAACATCTCAAGATCTTAGTTCTTATGCATTCCATCT
78086 P T S CGCGCCGAGGAGTCAGAAGTGAAGAAGAGGY
78086 P C S ATGACGTGGCAGAGGGTCAGAAGTGAAGAAGAGY
78086 T T S TCCACCTCTTCTTCACTTCTGACTGATGGAATGCATAAGAACTAAGATCTTGAGATGTTATTTGAGGGCAGCCT
78086 T C S TCCACCTCTTCTTCACTTCTGACCGATGGAATGCATAAGAACTAAGATCTTGAGATGTTATTTGAGGGCAGCCT
78086 IS [TC] AAAATACAAGTGATTTCCTGGTCCCCAATCCAGATTCTCCACCTCTTCTTCACTTCTGAC[TC]GATGGAATGCATAAGAACTAAGATCTTGAGATGTTATTTGAGGGCAG CCTTGCTTGGGTG
78118 I A GGCTAATGGTCCTTTAGCTGAAGATTAAGGGACATAGGGTAGA
78118 P C A ATGACGTGGCAGACCGGGGACACATGACCY
78118 P T A CGCGCCGAGGTGGGGACACATGACCY
78118 T C A CATGGGTCATGTGTCCCCGCTACCCTATGTCCCTTAATCTTCAGCTAAAGGACCATTAGCCAA
78118 T T A CATGGGTCATGTGTCCCCACTACCCTATGTCCCTTAATCTTCAGCTAAAGGACCATTAGCCAA
78118 IS [CT] CCTGACACACACAGTATTGGCTAATGGTCCTTTAGCTGAAGATTAAGGGACATAGGGTAG[CT]GGGGACACATGACCCATGGGAGATGCTCTCTTTTCATTCCTAGTTTT ACTTCTGTCCATC
78119 I S AGACTCCTCCTCCAAGAGAAAAGGGAAACAAAA
78119 P A S CGCGCCGAGGTACAGTAGGTGAGAAGATTCTY
78119 P G S ATGACGTGGCAGACCACAGTAGGTGAGAAGATTCY
78119 T A S TAGCAGAATCTTCTCACCTACTGTATTTGTTTCCCTTTTCTCTTGGAGGAGGAGTCTCA
78119 T G S TAGCAGAATCTTCTCACCTACTGTGTTTGTTTCCCTTTTCTCTTGGAGGAGGAGTCTCA
78119 IS [AG] GGGCCATTATCCATTTGCCTCCACTTGCTTTGCGATTAGCAGAATCTTCTCACCTACTGT[AG]TTTGTTTCCCTTTTCTCTTGGAGGAGGAGTCTCATTTGATTATTGCAA CTACCTTGTGAG
78135 I S AGGCGAACTGATTTTCATGGGAGGATTGAGTTTTTCTTCAATC
78135 P A S CGCGCCGAGGTTGATATTTGAAAATAAATACTTCTCCAY
78135 P C S ATGACGTGGCAGACGTGATATTTGAAAATAAATACTTCTCCY
78135 T A S TCATTGGAGAAGTATTTATTTTCAAATATCAAATTGAAGAAAAACTCAATCCTCCCATGAAAATCAGTTCGCCTGG
78135 T C S TCATTGGAGAAGTATTTATTTTCAAATATCACATTGAAGAAAAACTCAATCCTCCCATGAAAATCAGTTCGCCTGG
78135 IS [AC] GTTTTTGAACAGCAAAAATCATAATTCATATCATTGGAGAAGTATTTATTTTCAAATATCA[AC]ATTGAAGAAAAACTCAATCCTCCCATGAAAATCAGTTCGCCTGGCC TCCAAGTCGTGAGG
78155 I S GGTGGTAAACCCAAAAATATTTAAATATAAGAGAGATTGCTAGATAATTCTAGAAAGTACC
78155 P C S ATGACGTGGCAGACGTTTAAAAATATTCCTGATTCTAAGAAGY
78155 P A S CGCGCCGAGGTTTAAAAATATTCCTGATTCTAAGAAGY
78155 T C S CACCCTTCTTAGAATCAGGAATATTTTTAAACGTACTTTCTAGAATTATCTAGCAATCTCTCTTATATTTAAATATTTTTGGGTTTACCACC
78155 T A S CACCCTTCTTAGAATCAGGAATATTTTTAAAAGTACTTTCTAGAATTATCTAGCAATCTCTCTTATATTTAAATATTTTTGGGTTTACCACC
78155 IS [CA] AAGTCATTTGGGCCTCCTTCAAAACTCTCCACCCTTCTTAGAATCAGGAATATTTTTAAA[CA]GTACTTTCTAGAATTATCTAGCAATCTCTCTTATATTTAAATATTTTT GGGTTTACCACC
78180 I A GAAGAGAGACAGCCTCGTTATGTAAGAGAGGAACCTCAA
78180 P C A ATGACGTGGCAGACCGGAGGGCCTCCY
78180 P T A CGCGCCGAGGTGGAGGGCCTCCAY
78180 T C A CCTCTGGAGGCCTCCGTGAGGTTCCTCTCTTACATAACGAGGCTGTCTCTCTTCCC
78180 T T A CCTCTGGAGGCCTCCATGAGGTTCCTCTCTTACATAACGAGGCTGTCTCTCTTCCC
78180 IS [CT] CTCATAGCTAAACAAGAGAAGGGAAGAGACAGCCTCGTTATGTAAGAGAGGAACCTCA[CT]GCAGGGCCTCCAGAGTCTCAATAGCCCAGAGACAGGGTCTGGCT CAGAGCACTGGGGA
78189 I A ACAAATTTAATTACAAAATTTGCTCTAACCCCAAAGGAATGAAAACTTAT
78189 P C A CGCGCCGAGGCCAGCTAAATGAAAGCTGY
78189 P G A ATGACGTGGCAGACGCAGCTAAATGAAAGCTGY
78189 T C A CTTGCAGCTTTCATTTAGCTGGTAAGTTTTCATTCCTTTGGGGTTAGAGCAAATTTTGTAATTAAATTTGTGA
78189 T G A CTTGCAGCTTTCATTTAGCTGCTAAGTTTTCATTCCTTTGGGGTTAGAGCAAATTTTGTAATTAAATTTGTGA
78189 IS [CG] GCTCTTTGATCACAAATTTAATTACAAAATTTGCTCTAACCCCAAAGGAATGAAAACTTA[CG]CAGCTAAATGAAAGCTGCAAGTTGCTAGATTTTGACTTGATCAGCCT GTCTTTCTGTAAC
78224 I S CCGGTTTGCTGATCGCCCCCAGGGT
78224 P T S CGCGCCGAGGATCAGGAGGTAAGCACCY
78224 P C S ATGACGTGGCAGACGTCAGGAGGTAAGCACCY
78224 T T S CTATGGTGCTTACCTCCTGATCCCTGGGGCGATCAGCAAACCGGGT
78224 T C S CTATGGTGCTTACCTCCTGACCCCTGGGGCGATCAGCAAACCGGGT
78224 IS [TC] CAGAGAAACGGTTAAGTCTCTCGTCTCTCAACCCAGCTCCTCTATGGTGCTTACCTCCTGA[TC]CCCTCGGGGCGATCAGCAAACCGGGTCTGCCACCTTCTTTTCAGAGAGC TTAACTAGCAGA
78226 I A GCAAAGTCACTTCCCTGTGTTCATTTTTCCTTTAAAGGCACTAA
78226 P C A ATGACGTGGCAGACCATTTAGAAAAGTTATTACAACAAATAGTY
78226 P T A CGCGCCGAGGTATTTAGAAAAGTTATTACAACAAATAGTGY
78226 T C A AAAGCACTATTTGTTGTAATAACTTTTCTAAATGTAGTGCCTTTAAAGGAAAAATGAACACAGGGAAGTGACTTTGCTA
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78264 I S ACATCTCCATGAATGAGAAAGTTTGGGAATCTCTGATGTACACTATGAA
78264 P G S ATGACGTGGCAGACCTGCAATTCTTGACCTCAY
78264 P A S CGCGCCGAGGTTGCAATTCTTGACCTCAY
78264 T G S TTCTGTGAGGTCAAGAATTGCAGTCATAGTGTACATCAGAGATTCCCAAACTTTCTCATTCATGGAGATGTTA
78264 T A S TTCTGTGAGGTCAAGAATTGCAATCATAGTGTACATCAGAGATTCCCAAACTTTCTCATTCATGGAGATGTTA
78264 IS [GA] CCTAGATTTGGGCTGTGGGTCTGCTGCTAGAATATAAGTTCTGTGAGGTCAAGAATTGCA[GA]TCATAGTGTACATCAGAGATTCCCAAACTTTCTCATTCATGGAGAT GTTAGTGTCTTGGT
78295 I A AATTTAATTTGCTATATAATTTGTTAAAGTAATATGTTATTCTAATAGATATTCTAGCATT
78295 P C A CGCGCCCAAGGCAAAACATCTGTGGGACAY
78295 P G A ATGACGTGGCAGACGAAAACATCTGTGGGACAAY
78295 T C A GAATTTGTCCCACAGATGTTTTGATGCTAGAATATCTATTAGAATAACATATTACTTTAACAAATTATATAGCAAATTAAATT
78295 T G A GAATTTGTCCCACAGATGTTTTCATGCTAGAATATCTATTAGAATAACATATTACTTTAACAAATTATATAGCAAATTAAATT
78295 IS [CG] AATTTAATTTGCTATATAATTTGTTAAAGTAATATGTTATTCTAATAGATATTCTAGCAT[CG]AAAACATCTGTGGGACAAATTCTACTTTTTCAGAGTTGATAATCCT TTTGATATTTTTTC
78297 I S ACCTATTATGCTTCATGTTTATTTGCTCTCTCCAATGCCACTAGTTTA
78297 P A S CGCGCCGAAGTTAAAATAATCAGCTACTTTATTCACTY
78297 P G S ATGACGTGGCAGACCTAAAATAATCAGCTACTTTATTCACTY
78297 T A S GTAGAGTGAATAAAGTAGCTGATTATTTTAAAAACTAGTGGCATTGCAGAAGAGCAAATAAACATGAAGCATAATAGGTAA

OSR1

FIGURE 129C

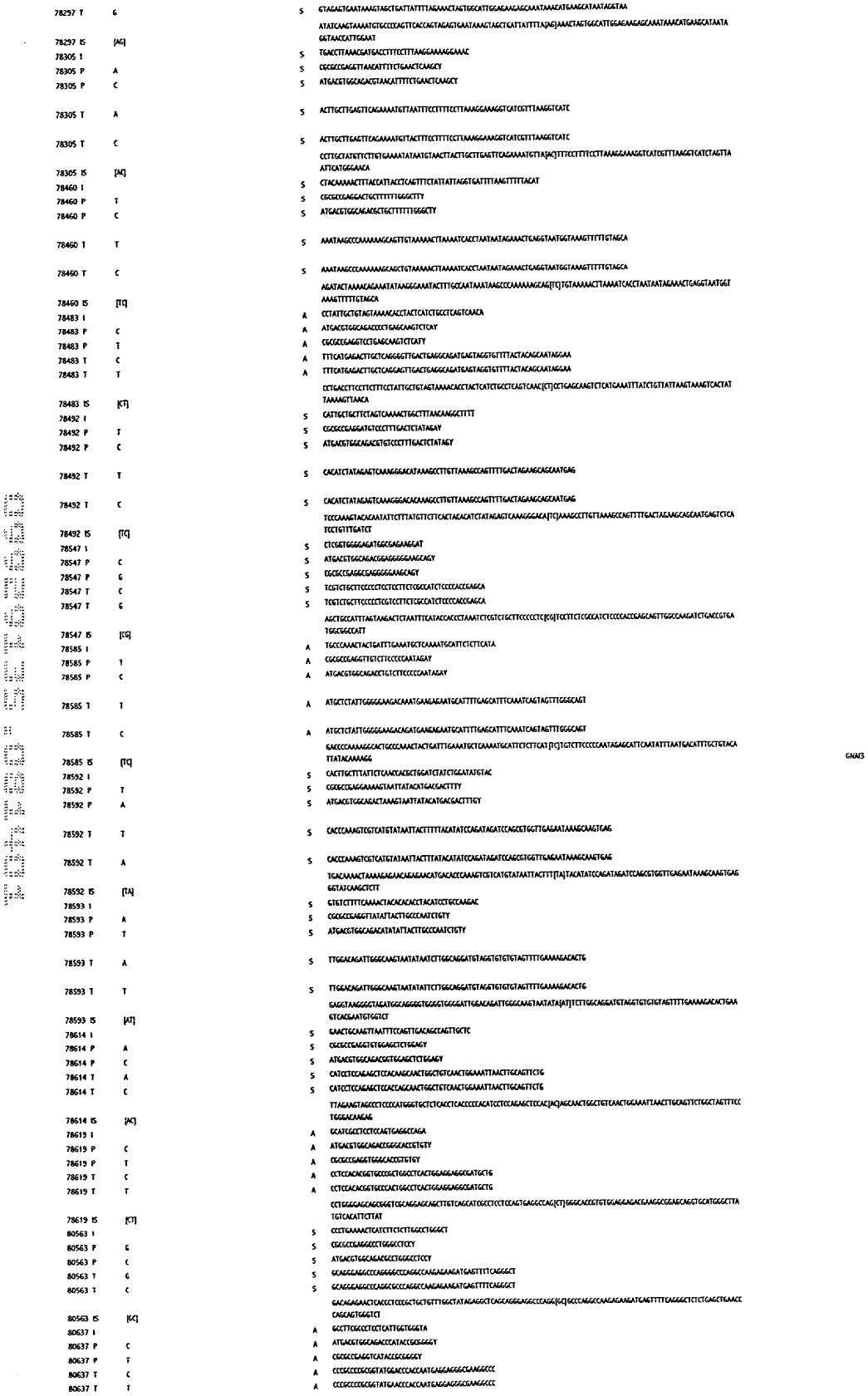


FIGURE 129C

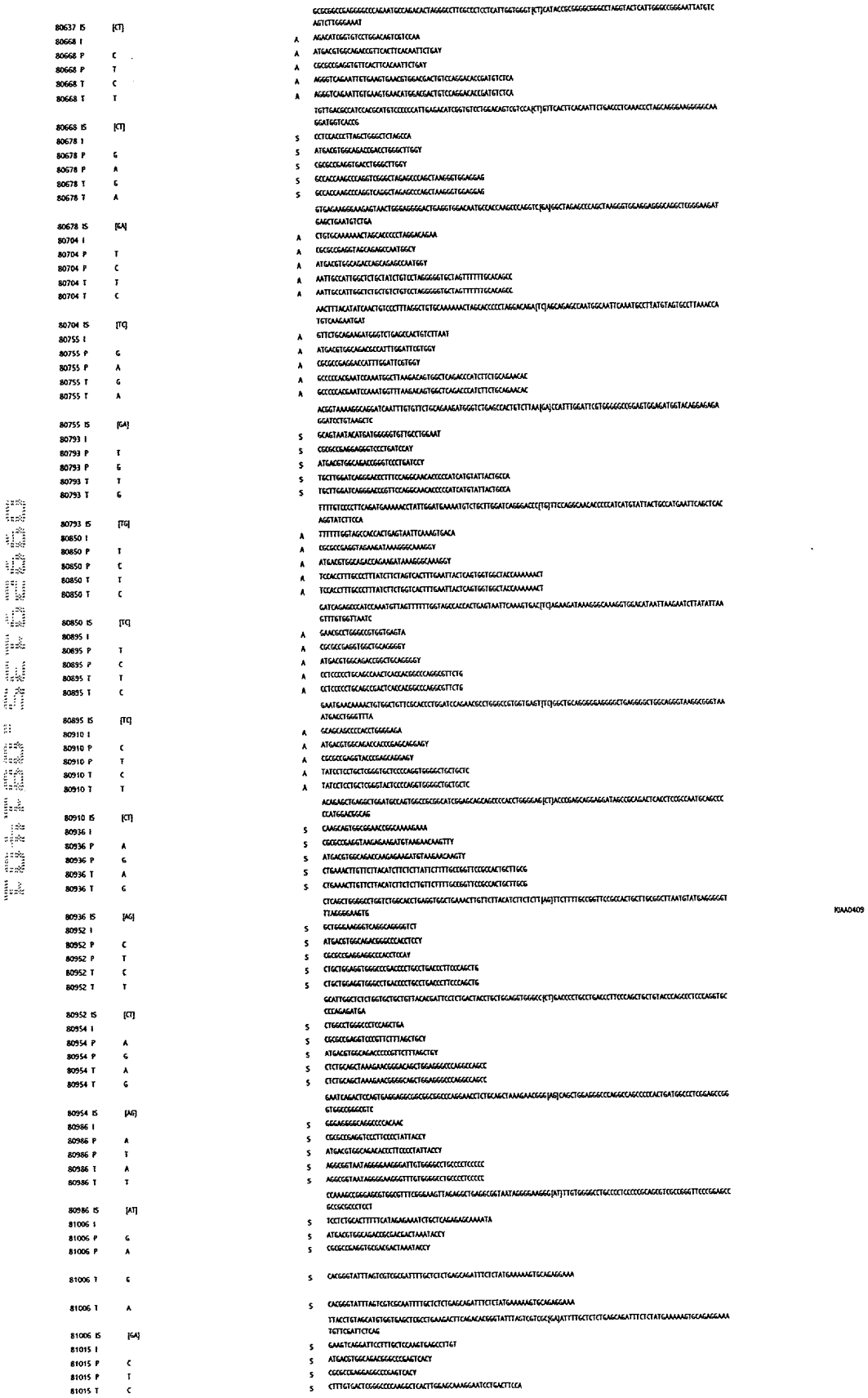


FIGURE 129C

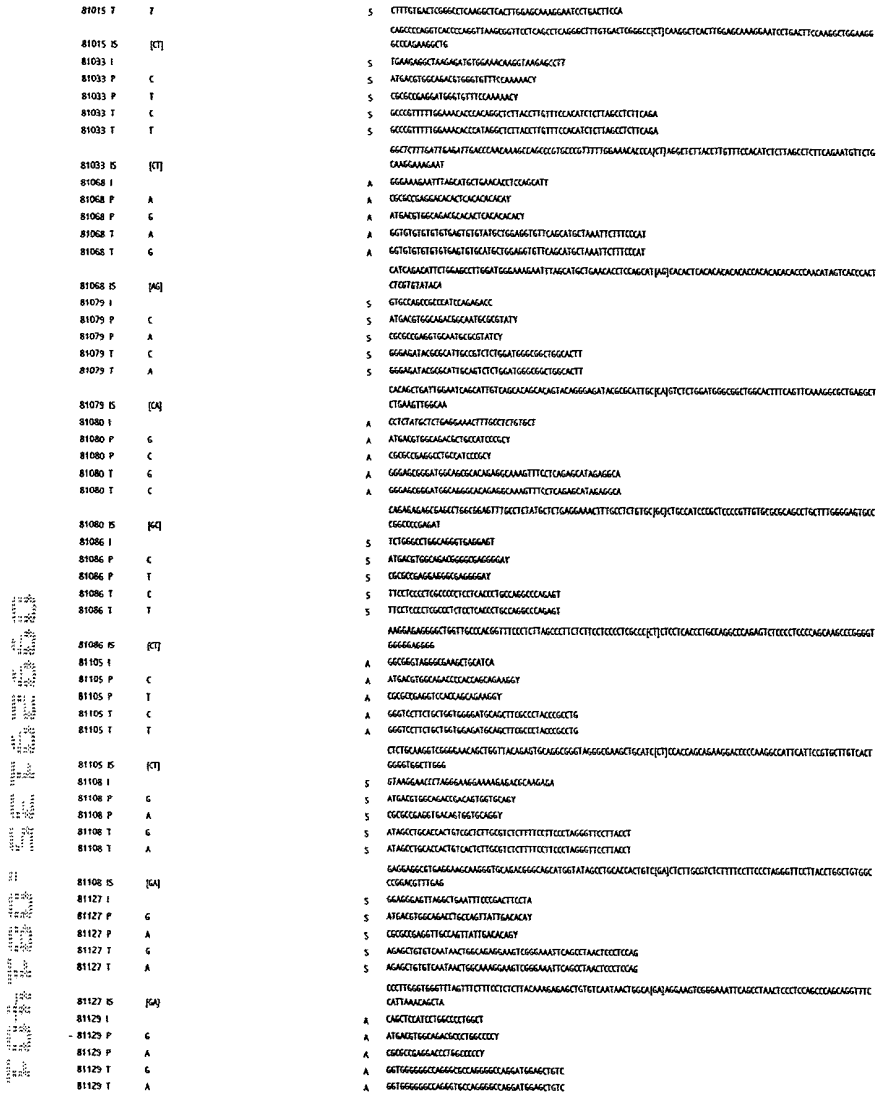

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81033 I S TGAAGAGGCTAAGAGATGTGGAAACAAGGTAAGAGCCTT
81033 P C S ATGACGTGGCAACGTGGGTGTTTCCAAAAACY
81033 P T S CGCGCCGAGGATGGGTGTTTCCAAAAACY
81033 T C S GCCCGTTTTTGGAAACACCCACAGGCTCTTACCTTGTTTCCACATCTCTTAGCCTCTTCAGA
81033 T T S GCCCGTTTTTGGAAACACCCATAGGCTCTTACCTTGTTTCCACATCTCTTAGCCTCTTCAGA
81033 IS [CT] GGCTCTTTGATTGAGATTGACCCAACAAAGCCAGCCCGTGCCCGTTTTTGGAAACACCCA[CT]AGGCTCTTACCTTGTTTCCACATCTCTTAGCCTCTTCAGAATGTTCTG CAAGCAAAGAAT
81068 I A GGGAAAGAATTTAGCATGCTGAACACCTCCAGCATT
81068 P A A CGCGCCGAGGACACACTCACACACACAY
81068 P G A ATGACGTGGCAGACGCACACTCACACACACT
81068 T A A GGTGTGTGTGTGTGAGTGTGTATGCTGGAGGTGTTCAGCATGCTAAATTCTTTCCCAT
81068 T G A GGTGTGTGTGTGTGAGTGTGCATGCTGGAGGTGTTCAGCATGCTAAATTCTTTCCCAT
81068 IS [AG] CATCAGACATTCTGGAGCCTTGGATGGGAAAGAATTTAGCATGCTGAACACCTCCAGCAT[AG]CACACTCACACACACACACCACACACACACCCAACATAGTCACCCACT CTGGTGTATACA
81079 I S GTGCCAGCGCCCATCCAGAGACC
81079 P C S ATGACGTGGCAGACGCAATGCGCGTATY
81079 P A S CGCGCCGAGGTGCAATGCGCGTATCY
81079 T C S GGGAGATACGGCATTGCCGTCTCTGGATGGGCGGCTGGCACTT
81079 T A S GGGAGATACGGCATTGCAGTCTCTGGATGGGCGGCTGGCACTT
81079 IS [CA] CACAGCTGATTGGAATCAGCATTGTCAGCACAGCACAGTACAGGGAGATACGGCATTGC[CA]GTCTCTGGATGGGCGGCTGGCACTTTCAGTTCAAAGGCGCTGAGGCT CTGAAGTTGGCAA
81080 I A CCTCTATGCTCTGAGGAAACTTTGGCTCTGTGCT
81080 P G A ATGACGTGGCAGACGCTGCCATCCCGCY
81080 P C A CGCGCCGAGGCCTGCCATCCCGCY
81080 T G A GGGAGCGGGATGGCAGCGGCACAGAGCCAAAGTTTCCTCAGAGCATAGAGGCA
81080 T C A GGGACGGGATGGCAGGGCACAGAGCCAAAGTTTCCTCAGAGCATAGAGGCA
81080 IS [GC] CAGAGAGAGCGAGCCTGGCGGAGTTTGCCTCTATGCTCTGAGGAAACTTTGGCTCTGTGC[GC]CTGCCATCCGGCTCCCCGTTGTGCTGCGCAGCCTGCTTTGGGGAGTGCC CGGCCCCGAGAT
81086 I S TCTGGGCCTGGCAGGGTGAGGAGT
81086 P C S ATGACGTGGCAGACGGGGCCAGGGGAY
81086 P T S CGCGCCGAGGAGGGCGAGGGGAY
81086 T C S TTCCTCCCCTCGCCCCTCCTCACCCTGCCAGCCCCAGAGT
81086 T T S TTCCTCCCCTCGCCCTCTCCTCACCCTGCCAGCCCAGAGT
81086 IS [CT] AAGGAGAGGGGCTGGTTGCCCACGGTTCCCCTCTTAGCCCTCCTTCCTCCCCTCGCCC[CT]CTCCTCACCCTGCCAGGCCCAGAGTCCTCCCCTCCCCAGCAAGCCCGGGGT GGGGGAGGGG
81105 I A GGCGGGTAGGGGCGAAGCTGCATCA
81105 P C A ATGACGTGGCAGACCCCACAGCAGAAGGY
81105 P T A CGCGCCGAGGTCCACCAGCAGAAGGY
81105 T C A GGGTCCTTCTGCTGGTGGGGATGCAGCTTCGCCCTACCCGCCTG
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81108 T G S ATAGCCTGCACCACTGTCGCTCTTGCGTCTCTTTTCCTTCCCTAGGGTTCCTTAGCT
81108 T A S ATAGCCTGCACCACTGTCACTCTTGCGTCTCTTTTCCTTCCCTAGGGTTCCTTAGCT
81108 IS [GA] GACGAGGCGTGAGGAAGCAAGGGTGCAGACGGGCAGCATGGTATAGCCTGCACCACTGTC[GA]CTTGGGTCTCTTTTCCTTCCCTAGGGTTCCTTACCTGGCTGTGGC CCGGACGTTTGAG
81127 I S GGAGGCAGTTAGGCTGAATTTCCCGACTTCCTA
81127 P G S ATGACGTGGCAGACTTGCCAGTTATTGACACAY
81127 P A S CGCGCCGAGGTTGCCAGTTATTGACACAGY
81127 T G S AGAGCTGTGTCAATAACTGGCAAAGGAAGTCGGGCAAATTCAGCCTAACTCCCTCCAG
81127 T A S AGAGCTGTGTCAATAACTGGCAAAGGAAGTCGGGCAAATTCAGCCTAACTCCCTCCAG
81127 IS [GA] CCCTTGGGTGGGTTTAGTTTCTTTCCTCTCTTACAAAGAGAGCTGTGTCAATAACTGGCA[GA]AGGAAGTCGGGAAATTCAGCCTAACTCCCTCCAGCCCAGCAGGTTTC CATTAAACAGCTA
81129 I A CAGCTCCATCCTGGCCCCTGGCT
81129 P G A ATGACGTGGCACACGCCCTGGCCCCY
81129 P A A CGCGCCGAGCACCCTGGCCCCY
81129 T G A GGTGGGGGGCCAGGGCCCCAGGGGCCAGGATGGAGCTGTC
81129 T A A GGTGGGGGGCCAGGGTGCCAGGGGCCAGGATGGAGCTGTC
81129 IS [GA] AGACACAGGCGTCAGGGCAAAGAACACAACTCTAGGGACAGCTCCATCCTGGCCCCTGGC[GA]CCCTGGCCCCCCACCTGCTGGCTTCTTTGATGAGTGCAATCGCGATGA GAATTCTCTTC
81137 I S GGCCAGGACAATGAGCAGGATGCCACT
81137 P G S ATGACGTGGCAGACCTGTCAGCCCCACAY
81137 P T S CGCGCCGAGGATGTCAGCCCCACAGY
81137 T G S CTGGCTGTGGGGCTGACAGGTGGCATCCTGCTCATTGTCCTGGCCGG
81137 T T S CTGGCTGTGGGGCTGACATGTGGCATCCTGCTCATTGTCCTGGCCGG
81137 IS [GT] CCCTACTTTCCTGCAGGGCGTGGACGAGTGGATGTGGCCAGCCTGGCTGTGGGGCTGACA[GT]GTGGCATCCTGCTCATTGTCCTGCCGGCCTGGGAGCCTTTTGGTAT CTGCGCTGGCGAC
81162 I S CTCCTTACCCTCTGTTTGTAGACAAAGAGCATCAGCTT
81162 P G S CGCGCCAGGCCTAAGCAAACTTTCTTCTCY
81162 P C S ATGACGTGGCAGACGCTAAGCAAACTTTCTTCTCY
81162 T G S ATCTGAAGAAGAAAACTTTGCTTAGGAGCTGATGCTCTTTGTCTACAAACAAGAGGGTAAGGAGCT
81162 T C S ATCTGAAGAAGAAAACTTTGCTTAGCAGCTGATGCTCTTTGTCTACAAACAAGAGGGTAAGGAGCT
81162 IS [GC] ATTTAGAAAATAAGAGTGGAGTAATACAGAAACAAAATCTGAAGAAGAAAGTTTGCTTAG[GC]AGCTGATGCTCTTTGTCTACAAACAAGAGGGTAAGGAGCTGGATC CAATTGAATTGAATT
81166 I S GTTCTAGAAAGCAGAGTTCGAAACGTAATGTGGAAAAGGCATTTC
81166 P C S ATGACGTGGCAGACGTTTTTTTTTTTTTCTAGTTTCTACTTY
81166 P A S CGCGCCGAGGTTTTTTTTTTTTTTCTAGTTTCTACTTTAY
81166 T C S TCCCTAAAGTAGAAACTAAGAAAAAAAAAAAAAAAAACAAATGCCTTTTCCACATTACGTTTCGAACTCTGCTTTCTAGAACCA
81166 T A S TCCCTAAAGTAGAAACTAAGAAAAAAAAAAAAAAAAAAAATGCCTTTTCCACATTACGTTTCGAACTCTGCTTTCTAGAACCA
81166 IS [CA] AATAGCAGCGTTCAGAAGATATATTATCCCTAAAGTAGAAACTAAGAAAAAAAAAAAAAA[CA]AAATGCCTTTTCCACATTACGTTTCGAACTCTGCTTTCTAGAACCA ACAACGCAATCACA
81196 I A CATGGGCAAAAGGATTCAAGTTTCTCACATTCTGAGTGTTTATGAAATAAAA
81196 P C A ATGACGTGGCAGACCGACTTTTTTGTGTAGCTATTAAY
81196 P T A CGCGCCGAGGTGACTTTTTGTGTAGCTATTAAAAY
81196 T C A CACCTTTTAATAGCTACACAAAAAAGTCGTTTATTTCATAAACACTCAGAATGTGAGAAACTTGAATCCTTTTGCCCATGCT
81196 T T A CACCTTTTAATAGCTACACAAAAAAGTCATTTATTTCATAAACACTCAGAATGTGAGAAACTTGAATCCTTTTGCCCATGCT
81196 IS [CT] TGAATTCAGCATGGGCAAAAGGATTCAAGTTTCTCACATTCTGAGTGTTTATGAAATAAA[CT]GACTTTTTTGTGTAGCTATTAAAAGGTGACAAGTGGTGACTCATAA AAAACTTTTGTTCA
81204 I A GGGCTGCGTGGTAGAGCTGGTCTTCAAGT

FIGURE 129C

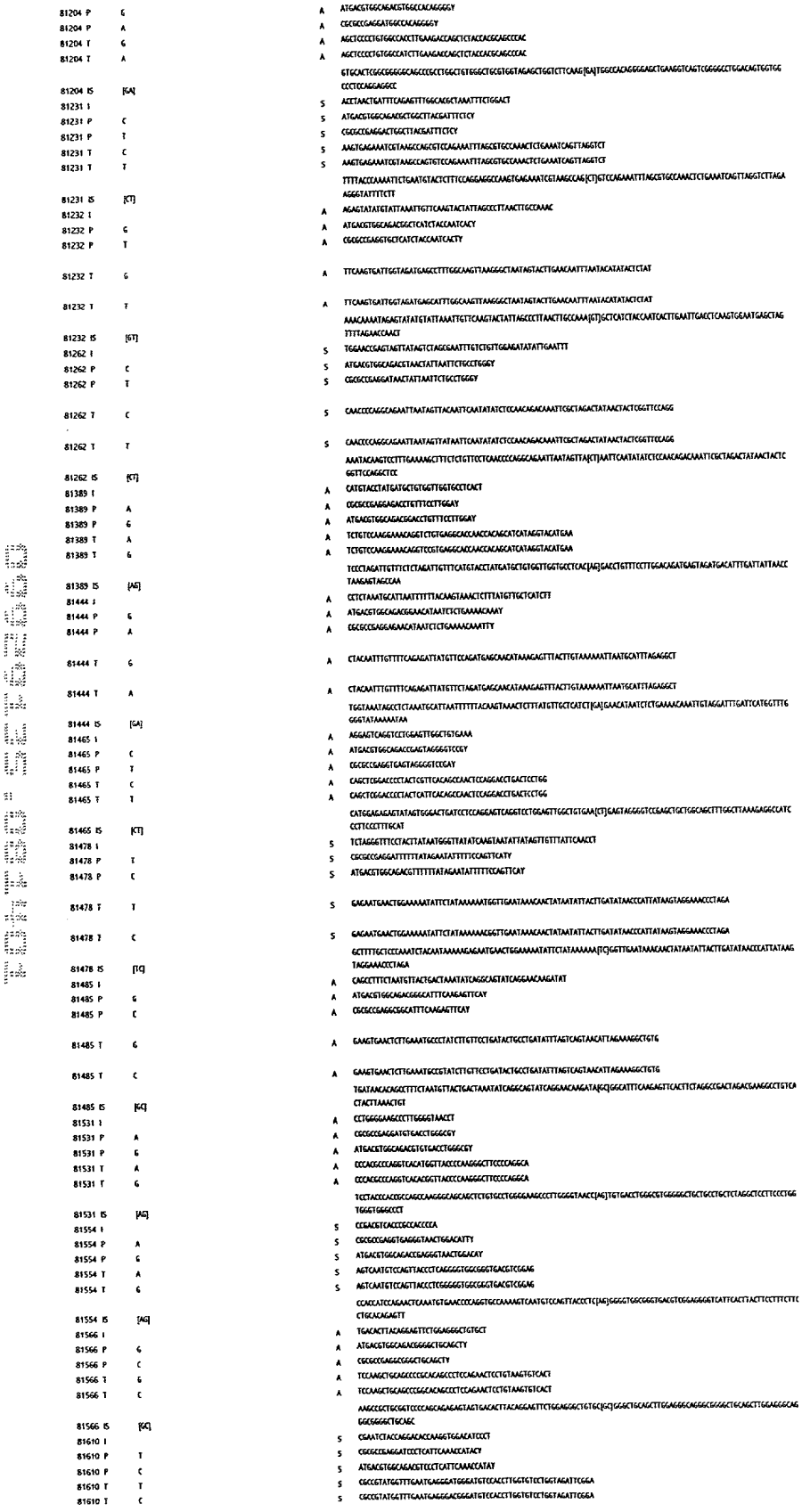
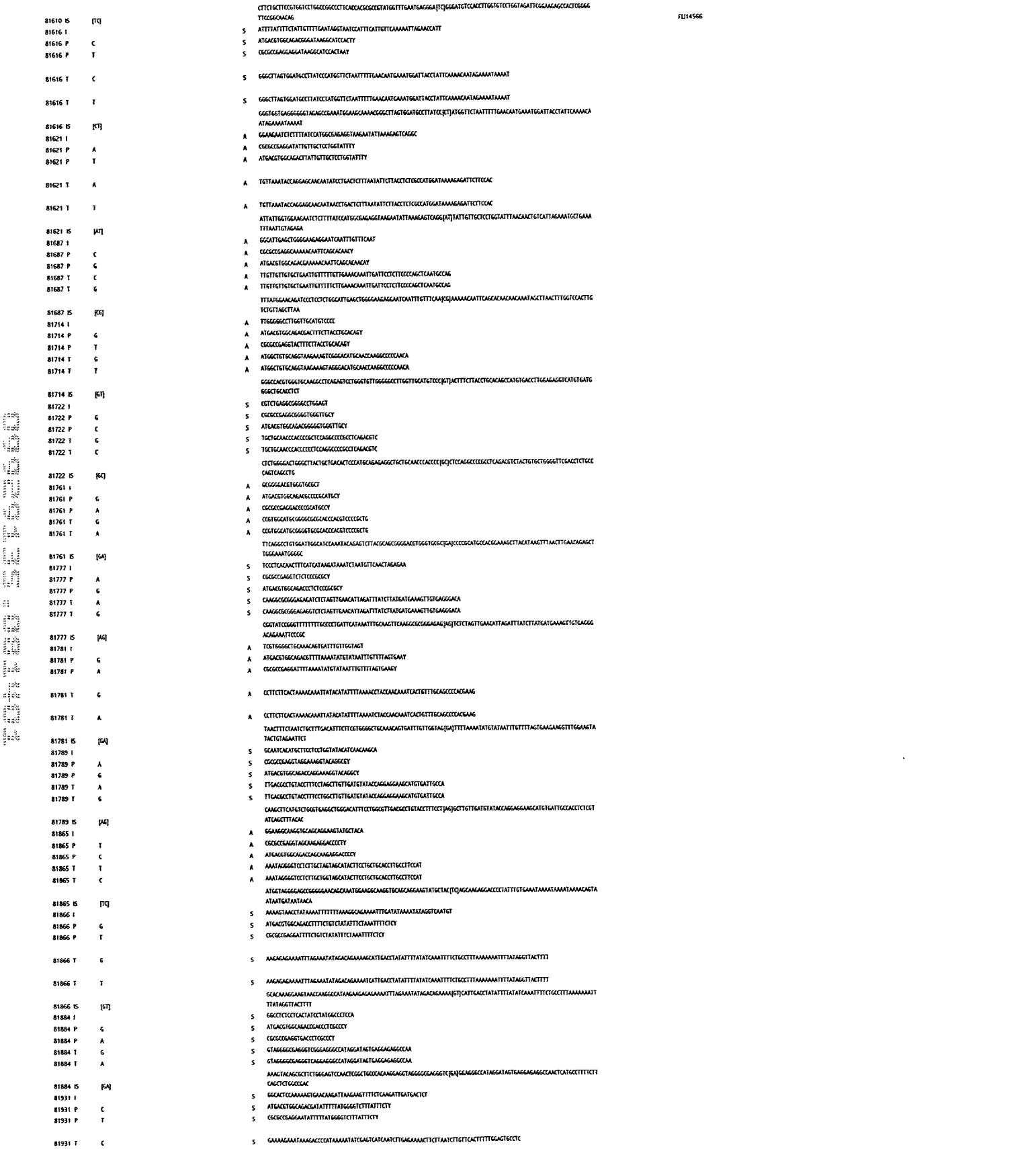
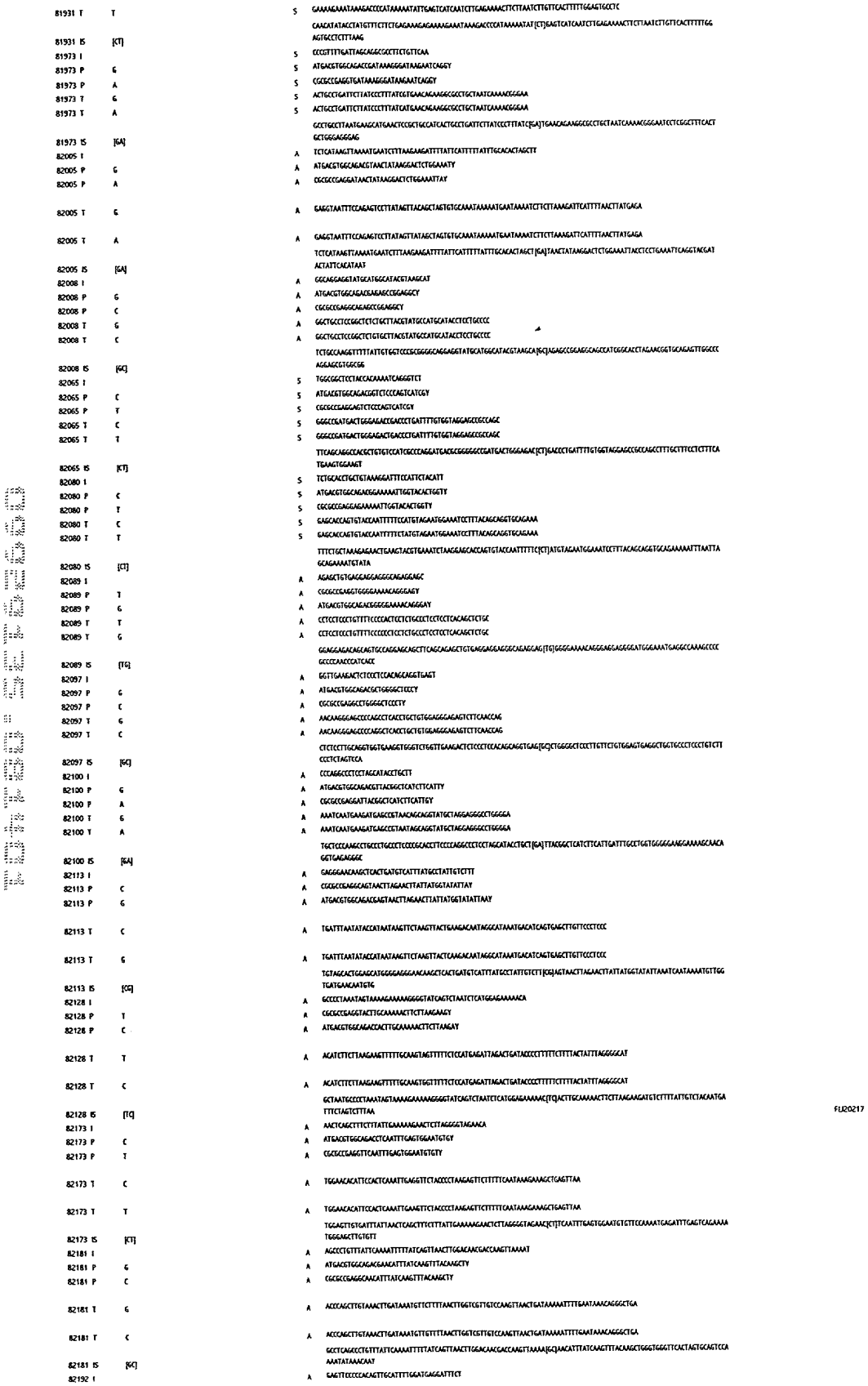


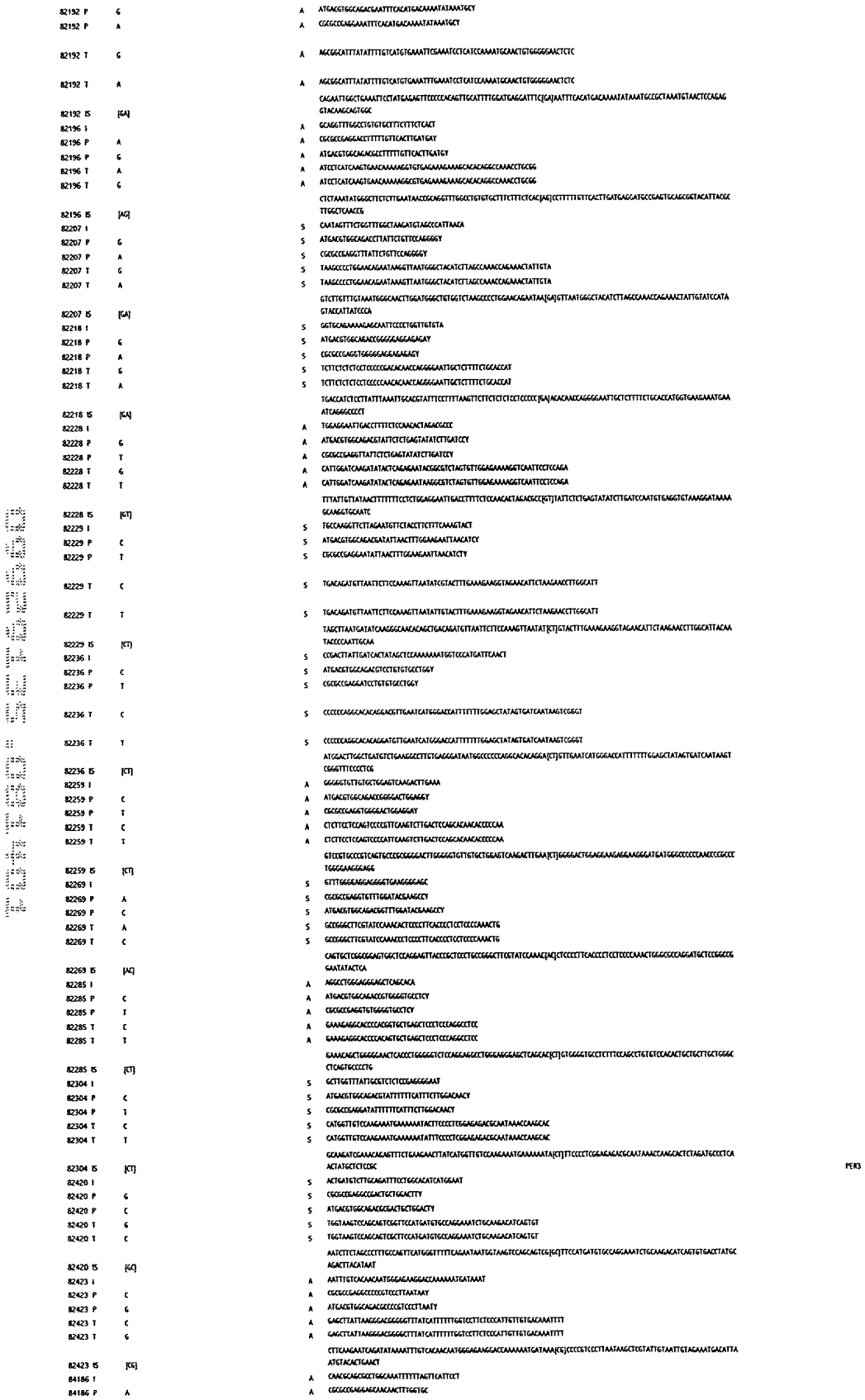
FIGURE 129C





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FIGURE 129C



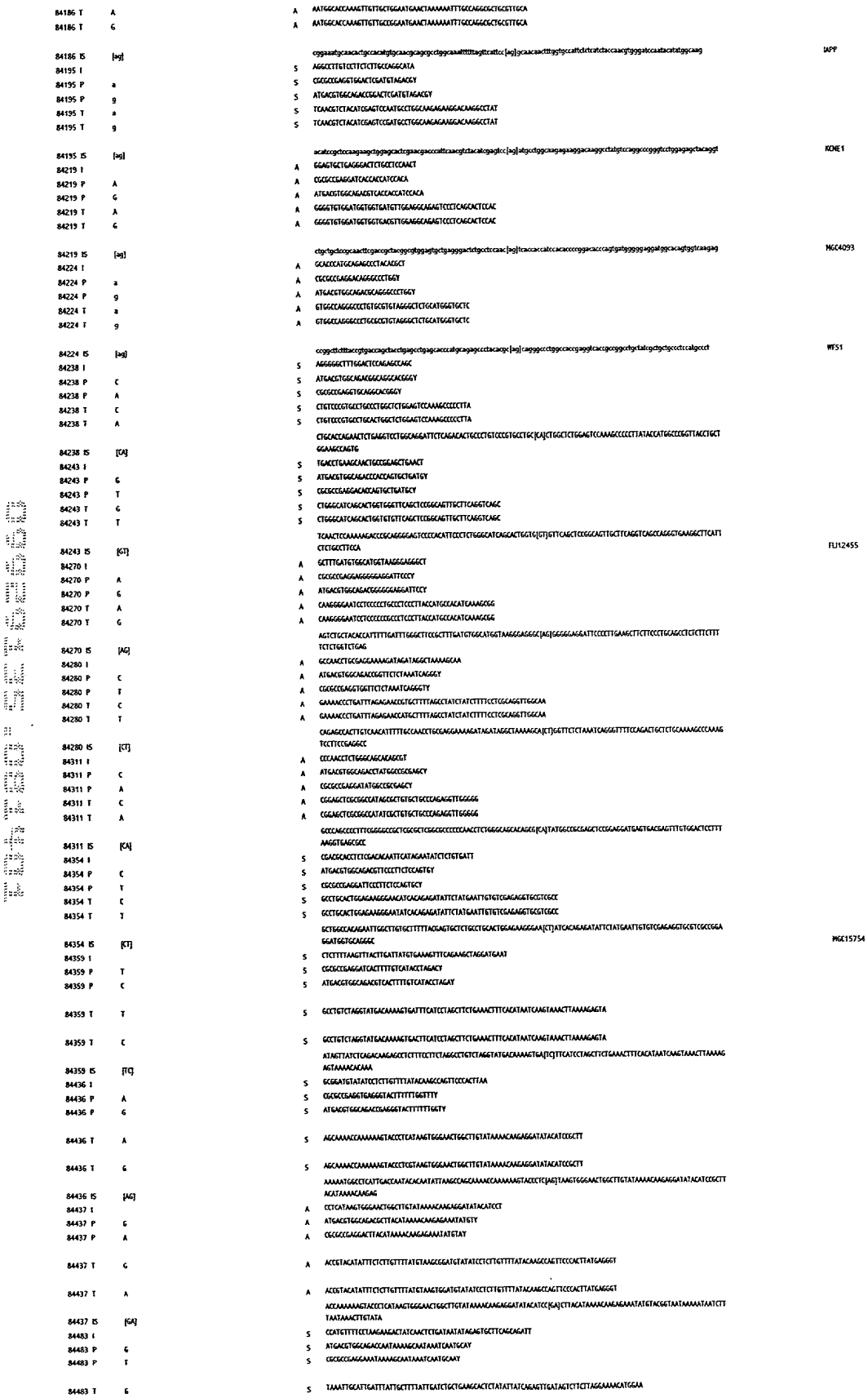
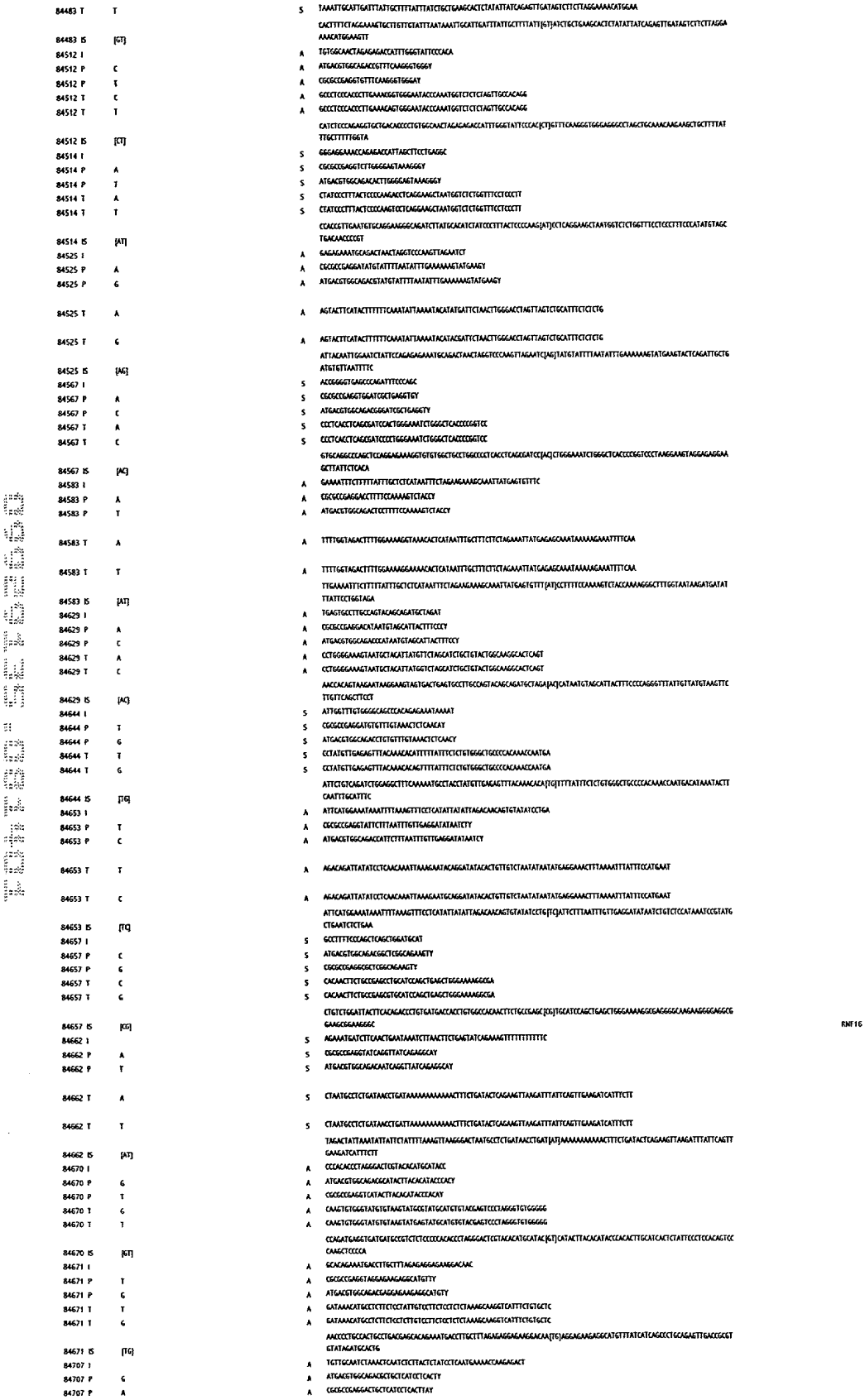
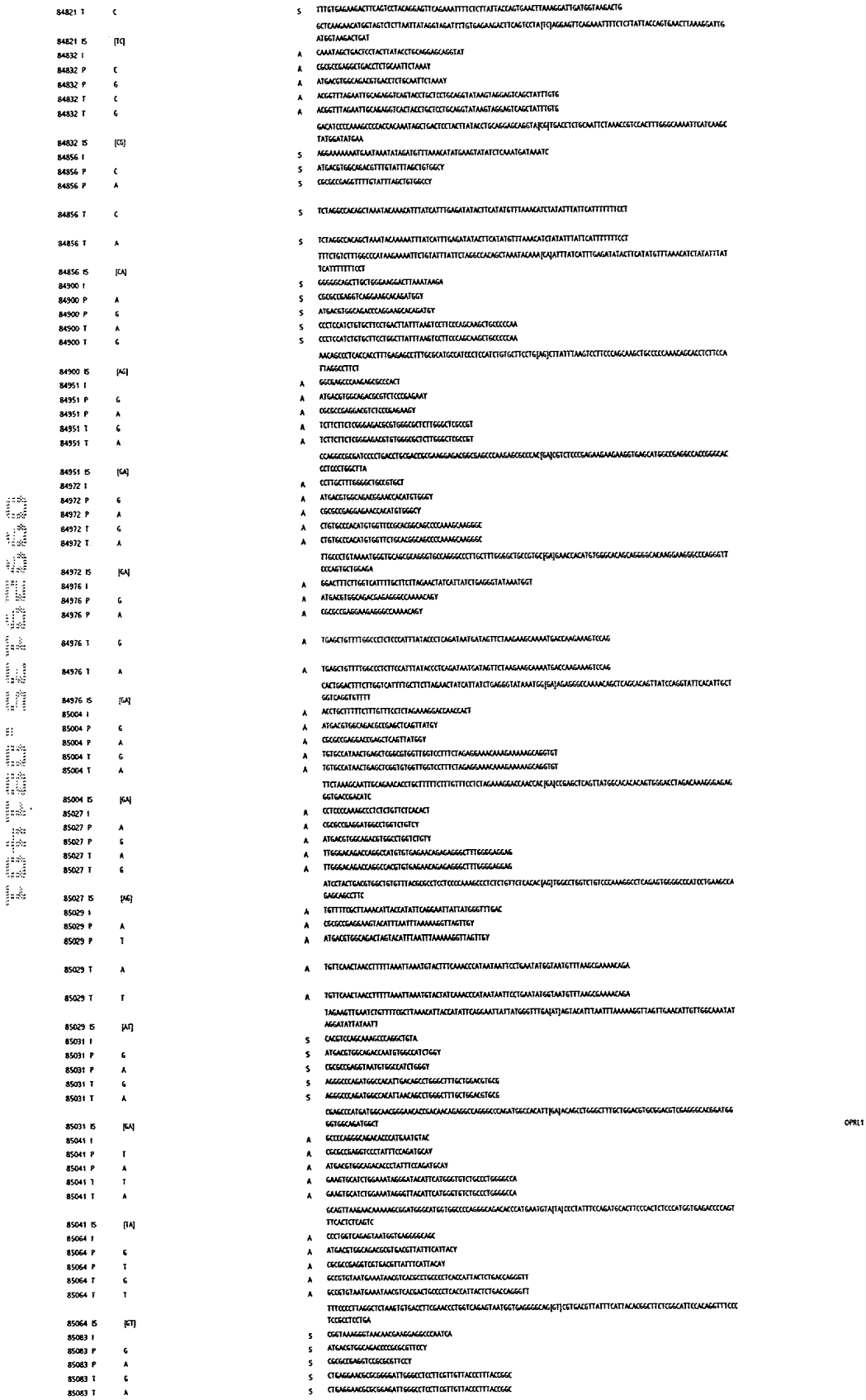

84186 T A A AATGGCACCAAAGTTGTTGCTGGAATGAACTAAAAAATTTGCCAGGCGCTGCGTTGCA
84186 T G A AATGGCACCAAAGTTGTTGCTGGAATGAACTAAAAAATTTGCCAGGCGCTGCGTTGCA
84186 IS [ag] cggaaatgcaacactgccacatgtgcaacgcagcgcctggcaaatttttaagttcattcc[ag]gcaacaacttgtgtgccatttctctctatctaccaacgtgggatccaatacatatggcaag IAPP
84195 I S AGGCCTTGTCCTTCTCTTGCCAGGCATA
84195 P a S GGGCCGAGGTGGACTCGATGTAGACGY
84195 P g S ATGACGTGGCAGACCGGACTCGATGTAGACGY
84195 T a S TCAACGTCTACATCGAGTCCAATGCCTGGCAAGAGAAGGACAAGGCCTAT
84195 T g S TCAACGTCTACATCGAGTCCGATGCCTGGCAAGAGAAGGACAAGGCCTAT
84195 IS [ag] acatccgctcccaagaagctggagcactgaacgaccaattcaacgtctacatcgagtcc[ag]atgcctggcaagagaaggacaaggcctatgtccaggcccgggtcctggagagctacaggt KCNE1
84219 I A GGAGTGCTGAGGGACTCTGCCTCCAACT
84219 P A A CGCGCCGAAGATCACCACCATCCACA
84219 P G A ATGACGTGGCAGACGTCACCACCATCCACA
84219 T A A GGGGTGTGGATGGTGGTGATGTTGGAGGCAGAGTCCCTCAGCACTCCAC
84219 T G A GGGGTGTGGATGGTGGTGACGTTGGAGGCAGAGTCCCTCAGCACTCCAC
84219 IS [ag] ctgctgctccgcaacttcgacgctacggcgtggagtgctgagggactctgcctccaac[ag]tcaccaccatccacacccctggacaccagtgatgggggaggatggcacagtggtcaagag MGC4093
84224 I A GCACCCATGCAGAGCCCTACAGGCT
84224 P a A CGCGCCGAGGACAGGGCCCTGGY
84224 P g A ATGACGTGGCAGACGCAGGGCCCTGGY
84224 T a A GTGGCCAGGGCCCTGTGCGTGTAGGGCTCTGCATGGGTGCTC
84224 T g A GTGGCCAGGGCCCTGCGCGTGTAGGGCTCTGCATGGGTGCTC
84224 IS [ag] ccggcttctttaccgtgaccacgctacctgagcctgagcacccatgcagagccctacacgc[ag]cagggccctggccaccgaggtcaccgccggcctgctatcgctgccctcccatgccct WFS1
84238 I S AGGGGGCTTTGGACTCCAGAGCCAGC
84238 P C S ATGACGTGGCAGAGGCAGGCACGGGY
84238 P A S CGCGCCGAGGTGCAGGCACGGGY
84238 T C S CTGTCCCGTGCCTGCCCTGGCTCTGGAGTCCAAAGCCCCCTTA
84238 T A S CTGTCCCGTGCCTGCACTGGCTCTGGAGTCCAAAGCCCCCTTA
84238 IS [CA] CTGCACAGAACTCTGAGGTCCTGGCAGGATTCTCAGACACTGCCCTGTCCCGTGCCTGC[CA]CTGGCTCTGGAGTCCAAAGCCCCCTTATACCATGGCCCGGTTACCTGCT GGAAGCCAGTG
84243 I S TGACCTGAAGCAACTGCCGGAGCTGAACT
84243 P G S ATGACGTGGCAGACCCACCAGTGCTGATGY
84243 P T S CGCGCCGAGGACACCAGTGCTGATGCY
84243 T G S CTGGGCATCAGCACTGGTGGGTTCAGCTCCGGCAGTTGCTTCAGGTCAGC
84243 T T S CTGGGCATCAGCACTGGTGTGTTCAGCTCCGGCAGTTGCTTCAGGTCAGC
84243 IS [GT] TCAACTCCAAAAAGACCCGCAGGGGAGTCCCCACATTCCCTCTGGGCATCAGCACTGGTG[GT]GTTCAGCTCCGGCAGTTGCTTCAGGTCAGCCAGGGTGAAGGCTTCATT CTCTGCCTTCCA FLJ12455
84270 I A GCTTTGATGTGGCATGGTAAGGGAGGGCT
84270 P A A CGCGCCGAGGAGGGGGAGGATTCCCY
84270 P G A ATGACGTGGCAGACGGGGGGAGGATTCCY
84270 T A A CAAGGGGAATCCTCCCCCCTGCCCTCCCTTACCATGCCACATCAAAGCGG
84270 T G A CAAGGGGAATCCTCCCCCCCGCCCTCCCTTACCATGCCACATCAAAGCGG
84270 IS [AG] AGTCTGCTACACCATTTTTGATTTGGGCTTCCGCTTTGATGTGGCATGGTAAGGGAGGGC[AG]GGGGGCAGGATTCCCCTTGAAGCTTCTTCCCTGCAGCCTCTCTCTTT TCTCTGGTCTGAG
84280 I A GCCAACCTGCGAGCAAAAGATAGATAGGCTAAAAGCAA
84280 P C A ATGACGTGGCAGACCGGTTCTCTAAATCAGGGY
84280 P T A CGCGCCGAGGTGGTTCTCTAAATCAGGGTY
84280 T C A GAAAACCCTGATTTAGAGAACCGTGCTTTTAGCCTATCTATCTTTTCCTGCAGGTTGGCAA
84280 T T A GAAAACCCTGATTTAGAGAACCATGCTTTTAGCCTATCTATCTTTTCCTGCAGGTTGGCAA
84280 IS [CT] CAGAGCCACTTGTCAACATTTTTGCCAACCTGCGAGGAAAAGATACATAGGCTAAAAGCA[CT]GGTTCTCTAAATCAGGGTTTTCCAGACTGCTCTGCAAAAGCCCAAAG TCCTCCCGAGGCC
84311 I A CCCAACCTCTGGGCAGCACAGCGT
84311 P C A ATGACGTGGCAGACCTATGGCCGCGAGCY
84311 P A A CGCGCCGAGGATATGGCCGCGAGCY
84311 T C A CGCAGCTCGCCGGCCATATCGCTGTGCTGCCCAGAGGTTGGGGG
84311 T A A CGCAGCTCGCGGCCATATCGCTGTGCTGCCCAGAGGTTGGGGG
84311 IS [CA] GCCCAGCCCCTTTCGGGGCCGCTCGCGCTCGGCGCCCCCCAACCTCTGGGCAGCACAGGG[CA]TATGGCCGCGAGCTCCGGAGGATGAGTGACGAGTTTGTGGACTCCTTT AAGGTGAGCGCC
84354 I S CGACGCACCTCTCGACACAATTCATAGAATATCTCTGTGATT
84354 P C S ATGACGTGGCAGACGTTCCCTCTCCAGTGY
84354 P T S CGCGCCCAGGATTCCCTTCTCCAGTGCY
84354 T C S GCCTGCACTGGAGAAGGGAACATCACAGAGATATTCTATGAATTGTGTCGAGAGGTGCGTCGCC
84354 T T S GCCTGCACTGGAGAAGGGAATATCACAGAGATATTCTATGAATTGTGTCGAGAGGTGCGTCGCC
84354 IS [CT] GCTGGCCACAGAATTGGCTTGTGCTTTTACGAGTGCTCTGCCTGCACTGGAGAAGGGAA[CT]ATCACAGAGATATTCTATGAATTGTGTCGAGAGGTGCGTCGCCGGA GGATGGTGCAGGGC MGC15754
84359 I S CTCTTTTAAGTTTACTTGATTATGTGAAAGTTTCAGAAGCTAGGATGAAT
84359 P T S CGCGCCGAGGATCACTTTTGTCATACCTAGACY
84359 P C S ATGACGTGGCAGACGTCACTTTTGTCATACCTAGAY
84359 T T S GCCTGTCTAGGTATGACAAAAGTGATTTCATCCTAGCTTCTGAAACTTTCACATAATCAAGTAAACTTAAAAGAGTA
84359 T C S GCCTGTCTAGGTATGACAAAAGTGACTTCATCCTAGCTTCTGAAACTTTCACATAATCAAGTAAACTTAAAAGAGTA
84359 IS [TC] ATAGTTATCTCAGACAAGAGCCTCTTTCCTTCTAGGCCTGTCTAGGTATGACAAAAGTGA[TC]TTCATCCTAGCTTCTGAAACTTTCACATAATCAAGTAAACTTAAAAG AGTAAAACACAAA
84436 I S GCGGATGTATATCCTCTTGTTTTATACAAGCCAGTTCCCACTTAA
84436 P A S CGCGCCGAGGTGAGGGTACTTTTTTGGTTTY
84436 P G S ATGACGTGGCAGACCGAGGGTACTTTTTTGGTTY
84436 T A S AGCAAAACCAAAAAAGTACCCTCATAAGTGGGAACTGGCTTGTATAAAACAAGAGGATATACATCCGCTT
84436 T G S AGCAAAACCAAAAAAGTACCCTCGTAAGTGGGAACTGGCTTGTATAAAACAAGAGGATATACATCCGCTT
84436 IS [AG] AAAAATGGCCTCATTGACCAATACACAATATTAAGCCAGCAAAACCAAAAAAGTACCCTC[AG]TAAGTGGGAACTGGCTTGTATAAAACAAGAGGATATACATCCGCTT ACATAAAACAAGAG
84437 I A CCTCATAAGTGGGAACTGGCTTGTATAAAACAACAGGATATACATCCT
84437 P G A ATGACGTGGCAGACGCTTACATAAAACAACAGAGAAATATGTY
84437 P A A CGCGCCGAGGACTTACATAAAACAAGAGAAATATGTAY
84437 T G A ACCGTACATATTTCTCTTGTTTTATGTAAGCGGATGTATATCCTCTTGTTTTATACAAGCCAGTTCCCACTTATGAGGGT
84437 T A A ACCGTACATATTTCTCTTGTTTTATGTAAGTGGATGTATATCCTCTTGTTTTATACAAGCCAGTTCCCACTTATGAGGGT
84437 IS [GA] ACCAAAAAAGTACCCTCATAAGTGGGAACTGGCTTGTATAAAACAAGAGGATATACATCC[GA]CTTACATAAAACAACAGAGAAATATGTACGGTAATAAAAATAATCTT TAATAAACTTGTATA
84483 I S CCATGTTTTCCTAAGAAGACTATCAACTCTGATAATATAGAGTGCTTCAGCAGATT
84483 P G S ATGACGTGGCAGACCAATAAAAGCAATAAATCAATGCAY
84483 P T S CGCGCCGAGGAAATAAAAGCAATAAATCAATGCAAY
84483 T G S TAAATTGCATTGATTTATTGCTTTTATTGATCTGCTGAAGCACTCTATATTATCAGAGTTGATAGTCTTCTTAGGAAAACATGGAA

FIGURE 129C



84707 T	G	A	ACAGTAAGTGAGGATGAGCAGCGTCTCTTGGTTTTCATTGAGGATAGAGTAAGAGATTGAGTTTAGATTGCAACAGA	
84707 T	A	A	ACAGTAAGTGAGGATGAGCAGTGTCTCTTGGTTTTCATTGAGGATAGAGTAAGAGATTGAGTTTAGATTGCAACAGA	
84707 IS	[GA]		TTCCTTCTGTTGCAATCTAAACTCAATCTCTTACTCTATCCTCAATGAAAACCAAGAGACT[GA]CTGCTCATCCTGACTTACTGTTGATTTTCCCTGGATCCCTTTCCTATCT AAGCGACACAA	
84740 I		S	GCACTTCTGGCTCCGTCAGGATCTGCCT	
84740 P	C	S	ATGACGTGGCAGACGCGCCCTCAGCAY	
84740 P	T	S	CGCGCCGAGGACGCCCTCAGCACY	
84740 T	C	S	CCAGGTGCTGAGGGCGCGGCAGATCCTGACGGAGCCAGAAGTGCGC	
84740 T	T	S	CCACGTGCTGAGGGCGTGGCAGATCCTGACGGAGCCAGAAGTGCGC	
84742 IS	[CT]		TTTGCCTTCTAATCCGGGGCACTGGTCACCCACAGTCTTTGGCCCACGGTGCTGAGGGCG[CT]GGCAGATCCTGACGGAGCCAGAAGTGCGCTACTACCTGCGGGGCCTGG TCAGCGGCCTGC	
84750 I		A	GGCCTCAGGTGGCCTTGCAGAGCT	
84750 P	A	A	CGCGCCGAGGAGGTGCGTCGAGCY	
84750 P	G	A	ATGACGTGGCAGACGGGTGCGTCGAGCY	
84750 T	A	A	CAGGGCTCGACGCACCTGCTCTGCAAGGCCACCTGAGGCCAG	
84750 T	G	A	CAGGGCTCGACGCACCCGCTCTGCAAGGCCACCTGAGGCCAG	
84750 IS	[AG]		CCCCCTCTGTGGAGCAGTAGCTCAGGGAAGCTGTGCTGGCCTCAGGTGGCCTTGCAGAGC[AG]GGTGCGTCGAGCCCTGGGGAGGCCAGTGCCCTGGGTGGGGGACTCAC GTCGGTTACTTTG	
84761 I		A	CCCAGCTGCCCGCAGGCCT	
84761 P	A	A	CGCGCCGAGGATACCCCGAAGCCCY	
84761 P	G	A	ATGACGTGGCAGACGTACCCCGAAGCCCY	
84761 T	A	A	GCAAGGGCTTCGGGGGTATGGCCTGCGGGCAGCTGGGGG	
84761 T	G	A	GCAAGGGCTTCGGGGTACGGCCTGCGGGCAGCTGGGGG	
84761 IS	[AG]		TCCCCCCAGGGCTGGACATCCACTTCATCCACGTGAAGCCCCCCCAGCTGCCCGCAGGCC[AG]TACCCCGAAGCCCTTGCTGATGGTGCACGGCTGGCCCCGCTCTTTCTAC GAGTTTATAA	
84763 I		A	ACTGAGAGGGATGTGGAGCTGCTGTACCCA	
84763 P	C	A	ATGACGTGGCAGACCGTCAAGGAGAAGGTATTCY	
84763 P	T	A	CGCGCCGAGGTGTCAAGGAGAAGGTATTCTY	
84763 T	C	A	CTGTAGAATACCTTCTCCTTGACGGGGTACAGCAGCTCCACATCCCTCTCAGTGA	
84763 T	T	A	CTGTAGAATACCTTCTCCTTGACAGGGTACAGCAGCTCCACATCCCTCTCAGTGA	
84763 IS	[CT]		GGGACAGCGTTCGGGAGGTTTCTTGGCCTCACTGAGAGGGATGTGGAGCTGCTGTACCC[CT]GTCAAGGAGAAGGTATTCTACAGCCTGATGAGGGAGAGCGGCTACA TGCACATCCAGTGC	EPHX1
84770 I		A	TGGCCATGGCCAAGGTCTACACAACACAAGA	
84770 P	T	A	CGCGCCGAGGTGGGAGAAAGGGCCY	
84770 P	C	A	ATGACGTGGCAGACCGGCAGAAAGGGCCY	
84770 T	T	A	CTCTGGCCCTTTCTCCCACTTGTGTTGTGTAGACCTTGGCCATGGCCATT	
84770 T	C	A	CTCTGGCCCTTTCTCCCGCTTGTGTTGTGTAGACCTTGGCCATGGCCATT	
84770 IS	[TC]		CGAGACAGGAAAAACAAGAGTCTGGAAAAATGGCCATGGCCAAGGTCTACACAACACAAG[TC]GGGAGAAAGGGCCAGAGACCCTGAGCCTGGAACATTTGCTGTGGTC TTCATCTCAGTCAG	
84773 I		A	AAACTCACCATGAGACAGGCTCCCTGTAGACCC	
84773 P	T	A	CGCGCCGAGGTGCAGAAAGGGGATTCTY	
84773 P	G	A	ATGACGTGGCAGACGGCAGAAAGGGGATTCY	
84773 T	T	A	CACCAGAATCCCCTTTCTGCAGGTCTACAGGGAGCCTGTCTCATGGTGAGTTTGG	
84773 T	G	A	CACCAGAATCCCCTTTCTGCCGGTCTACAGGGAGCCTGTCTCATGGTGAGTTTGG	
84773 IS	[TG]		CTGTGATCCAAACACTCCAGTTTCTTCCAAACTCACCATGAGACAGGCTCCCTGTAGACC[TG]GCAGAAAGGGGATTCTGGTGGGAAAGGAAGGAAGAAGTGAGTGGT CCTTATATCTCCAT	
84779 I		S	GGTGGGTGGGGAGGGTTTGTTAGGCA	
84779 P	G	S	ATGACGTGGCAGACCCTAACGCAGCAGGY	
84779 P	A	S	CGCGCCGAGGTCTAACGCAGCAGGY	
84779 T	G	S	CGGTCCCTGCTGCGTTAGGGCCTAACAAACCCTCCCCACCCACCCA	
84779 T	A	S	CGGTCCCTGCTGCGTTAGAGCCTAACAAACCCTCCCCACCCACCCA	
84779 IS	[GA]		GGAAGAGCAGACCCTGCCTCCTCCACTGAGCAAATACCGGGCCGGTCCCTGCTGCGTTAG[GA]GCCTAACAAACCCTCCCCACCCACCCAACGAAAACTCACCCTCTGCCCT TTGGCATACAC	
84780 I		A	GGCAGGGCACAGAAGGGAACGGAGGT	
84780 P	C	A	CGCGCCGAGGGTTCAGGGACCAGCY	
84780 P	G	A	ATGACGTGGCAGACGGTTCAGGGACCAGCY	
84780 T	C	A	CAGGGCTGGTCCCTGAACGCCTCCGTTCCCTTCTGTCCCCTCCCAG	
84780 T	G	A	CAGGGCTGGTCCCTGAACCCTCCGTTCCCTTCTGTCCCCTCCCAG	
84780 IS	[CG]		GGACGGTAACATCTGTGGGGGTGCTGGGGGTCCTGGGAGGGGACAGAGGGGAACGGAGG[CG]GTTCAGGGACCAGCCTGGCAGGTGAGCCGTGACTGGGCTCTGCCC ATCTCACCTGGAAA	
84782 I		S	AGACAGTTTAGGTTTGCATTTCCCAGAAAATGGTGACTAAATGCA	
84782 P	G	S	ATGACGTGGCAGACCGAATTTAAAGGAAAAGGGCY	
84782 P	A	S	CGCGCCGAGGTGAATTTAAAGGAAAAGGGCY	
84782 T	G	S	AGCTGCCCTTTTCCTTTAAATTCGGCATTTAGTCACCATTTTCTGGGAAATGCAAACCTAAACTGTCTGT	
84782 T	A	S	AGCTGCCCTTTTCCTTTAAATTCAGCATTTAGTCACCATTTTCTGGGAAATGCAAACCTAAACTGTCTGT	
84782 IS	[GA]		GGGTGGGGCCGGGGTACAGTCAGGTACCAGGATGCACAGCTGCCCTTTTCCTTTAAATTC[GA]GCATTTAGTCACCATTTTCTGGGAAATGCAAACCTAAACTGTCTGTG GAACCACCTCCTT	
84807 I		A	CAGAAAGGACTATAAGGAGCGGGGCTGGT	
84807 P	G	A	ATGACGTGGCAGAGCCCGGAGGAGCCY	
84807 P	A	A	CGCGCCGAGGACCGGAGGAGCCTY	
84807 T	G	A	CTGCAGGCTCCTCCGGCCCAGCCCGCCTCCTTATAGTCCTTTCTGGA	
84807 T	A	A	CTGCAGGCTCCTCCGGTCCAGCCCGCCTCCTTATAGTCCTTTCTGGA	
84807 IS	[GA]		TGGGGCCCGGTTAAAGGGCCTGGCCAGATCCAGAAAGGACTATAAGGAGCCGGGGCTGG[GA]CCGGAGGAGCCTGCAGTGGTGTGCGTGGCCCGGGGGTCCCCACTCA CTGGTCTCCACCGC	
84813 I		A	CCCACATTCACTTTCATGCCGTGCCTACTTTTAGGT	
84813 P	G	A	ATGACGTGGCAGACGGATTTTTTTTTTTTTTCTGGTCAY	
84813 P	C	A	CGCGCCGAGGCGATTTTTTTTTTTTTTCTGGTCAY	
84813 T	G	A	AATTTGACCAGAAAAAAAAAAAAAAATCCCCTAAAAGTAGGCACGGCATGAAAGTGAATGTGGGAA	
84813 T	C	A	AATTTGACCAGAAAAAAAAAAAAAAATCCCCTAAAAGTAGGCACGGCATGAAAGTGAATGTGGGAA	
84813 IS	[GC]		CCCCTCCTTCATTTGCCATTCCTTTCCCACATTCACTTTCATGCCGTGCCTACTTTTAGG[GC]GATTTTTTTTTTTTTCTGGTCAAATTGGCCTTGGTTATTAGGATAGA AAAGAGAAAATA	
84819 I		A	ACTCTTATTTGATGCTTTTAAACTTTTTCTTTATTTAGACAGAAAAGACCAACTT	
84819 P	C	A	CGCGCCGAGGCTTTAAAAGTAAAATGCAATAAATAAATAAGTY	
84819 P	G	A	ATGACGTGGCAGACGTTTAAAAGTAAAATGCAATAAATAAATAAGTY	
84819 T	C	A	CTTAACTTATTTATTTATTGCATTTTACTTTTAAAGAGTTGGTCTTTTCTGTCTAAATAAAGAAAAAGTTTAAAAGCATCAAATAAGAGTCT	
84819 T	G	A	CTTAACTTATTTATTTATTGCATTTTACTTTTAAACAGTTGGTCTTTTCTGTCTAAATAAAGAAAAAGTTTAAAAGCATCAAATAAGAGTCT	
84819 IS	[CG]		CCAAGACTCTTATTTGATGCTTTTAAACTTTTTCTTTATTTAGACAGAAAAGACCAACT[CG]TTTAAAAGTAAAATGCAATAAATAAATAAGTTAAGCATAGAGAACT GTCTGAAACTGACT	
84821 I		S	GTCTTACCATCAATCCTTTAAGTTCACTGGTAATAAGAGAAAATTTCTGAACTCCTT	
84821 P	T	S	CGCGCCGAGGATAGGACTGAAGTCTTCTCAY	
84821 P	C	S	ATGACGTGGCAGACGTAGGACTGAAGTCTTCTCAY	
84821 T	T	S	TTTGTGAGAAGACTTCAGTCCTATAGGAGTTCAGAAATTTTCTCTTATTACCAGTGAACTTAAAGGATTGATGGTAAGACTG	

FIGURE 129C



OPRL1

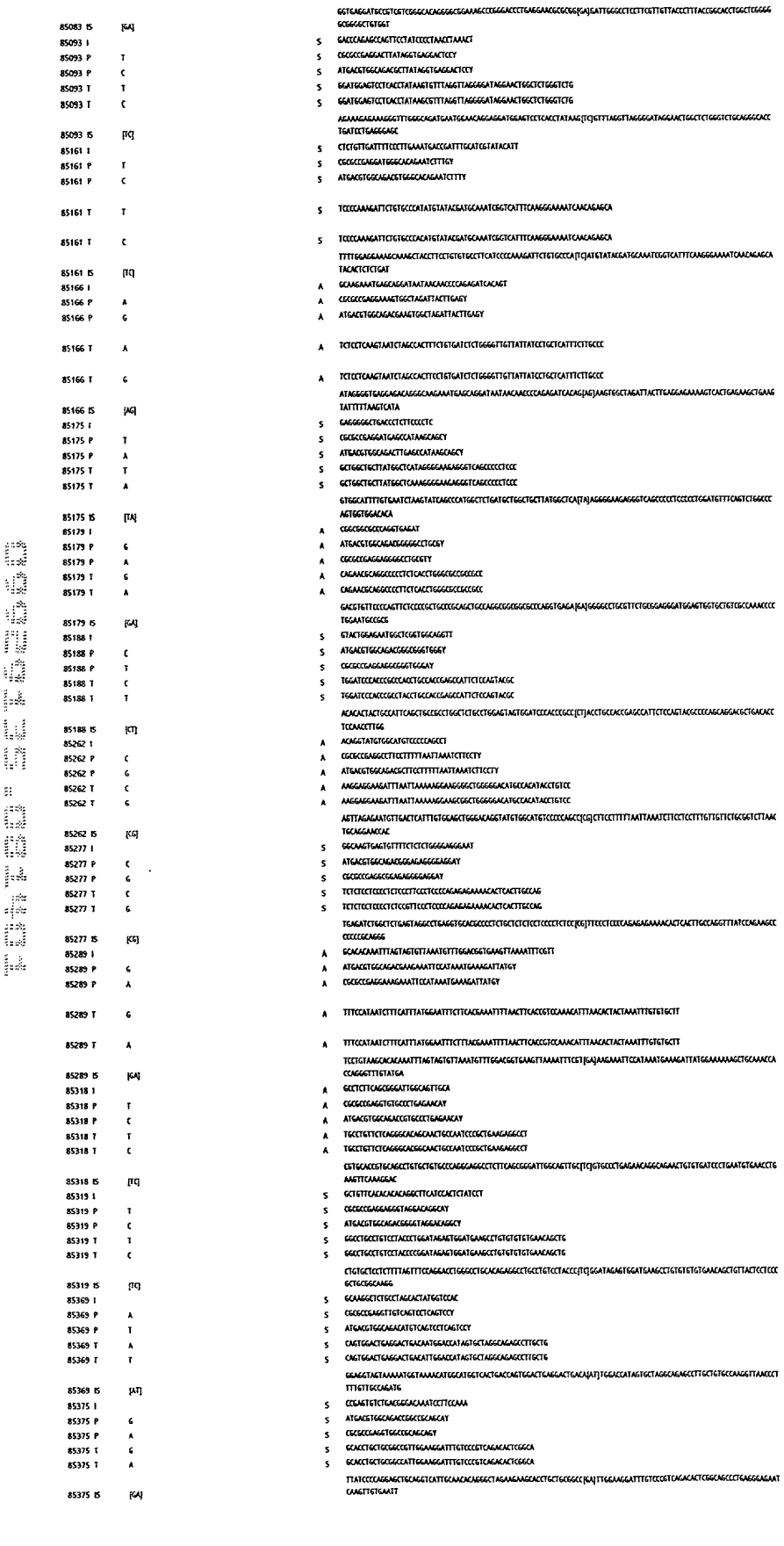
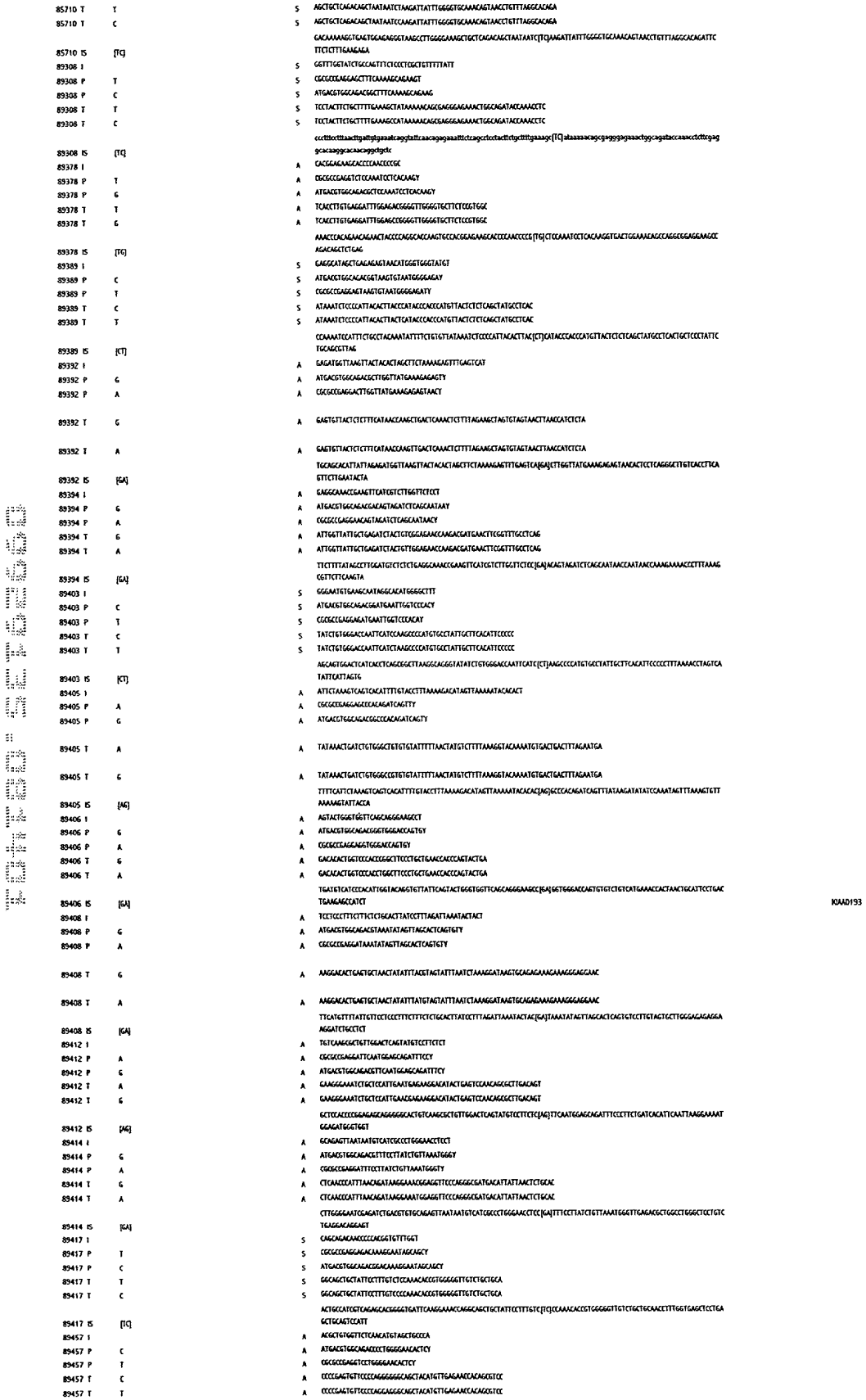


FIGURE 129C



FIGURE 129C


85710 T T S AGCTGCTCAGACAGCTAATAATCTAAGATTATTTGGGGTGCAAACAGTAACCTGTTTAGGCACAGA
85710 T C S AGCTGCTCAGACAGCTAATAATCCAAGATTATTTGGGGTGCAAACAGTAACCTGTTTAGGCACAGA
85710 IS [TC] GACAAAAAGGTGAGTGGAGAGGGTAAGCCTTGGGGAAAGCTGCTCAGACAGCTAATAATC[TC]AAGATTATTTGGGGTGCAAACAGTAACCTGTTTAGGCACAGATTC TTCTCTTGAAGAGA
89308 I S GGTTTGGTATCTGCCAGTTTCTCCCTCGCTGTTTTTATT
89308 P T S CGCGCCCAGGAGCTTTCAAAGCAGAAGT
89308 P C S ATGACGTGGCAGACGGCTTTCAAAAGCAGAAG
89308 T T S TCCTACTTCTGCTTTTGAAAGCTATAAAAACAGCGAGGGAGAAACTGGCAGATACCAAACCTC
89308 T C S TCCTACTTCTGCTTTTGAAAGCCATAAAAACAGCGAGGGAGAAACTGGCAGATACCAAACCTC
89308 IS [TC] ccctttccttaacttgattgtgaaatcaggtattcaacagagaaattctcagcrcctactttctgctttgaaaagc[TC]ataaaaacagcgagggagaaactggcagatacccaaacctctttcgag gcacaaggcacaacaggctgctc
89378 I A CACGAAGAAGCACCCCCAACCCCGC
89378 P T A CGCGCCGAGGTCTCCAAATCCTCACAAGY
89378 P G A ATGACGTGGCAGACGGCTCCAAATCCTCACAAGY
89378 T T A TCACCTTGTGAGGATTTGGAGACGGGGTTGGGGTGCTTCTCCGTGGC
89378 T G A TCACCTTGTGAGGATTTGGAGCCGGGGTTGGGGTGCTTCTCCGTGGC
89378 IS [TG] AAACCCACAGAACAGAACTACCCCAGGCACCAAGTGCCACGGAGAAGCACCCCAACCCCC[TG]CTCCAAATCCTCACAAGGTGACTGGAAACAGCCAGGCGGAGGAAGCC AGACAGCTCTGAG
89389 I S GAGGCATAGCTGAGAGAGTAACATGGGTGGGTATGT
89389 P C S ATGACGTGGCAGACGGTAAGTGTAATGGGGAGAY
89389 P T S CGCGCCGAGGAGTAAGTGTAATGGGGAGATY
89389 T C S ATAAATCTCCCCATTACACTTACCATACCCACCCATGTTACTCTCTCAGCTATGCCTCAC
89389 T T S ATAAATCTCCCCATTACACTTACTCATACCCACCCATGTTACTCTCTCAGCTATGCCTCAC
89389 IS [CT] CCAAAATCCATTTCTGCCTACAAATATTTTCTGTGTTATAAATCTCCCCATTACACTTAC[CT]CATACCCACCCATGTTACTCTCTCAGCTATGCCTCACTGCTCCCTATTC TGCAGCGTTAG
89392 I A GAGATGGTTAAGTTACTACACTAGCTTCTAAAAGAGTTTGAGTCAT
89392 P G A ATGACGTGGCAGACGCTTGGTTATGAAAGAGAGTY
89392 P A A CGCGCCGAGGACTTGGTTATGAAAGAGAGTAACY
89392 T G A GAGTGTTACTCTCTTTCATAACCAAGCTGACTCAAACTCTTTTAGAAGCTAGTGTAGTAACTTAACCATCTCTA
89392 T A A GAGTGTTACTCTCTTTCATAACCAAGTTGACTCAAACTCTTTTAGAAGCTAGTGTAGTAACTTAACCATCTCTA
89392 IS [GA] TGCAGCACATTATTAGAGATGGTTAAGTTACTACACTAGCTTCTAAAAGAGTTTGAGTCA[GA]CTTGGTTATGAAAGAGAGTAACACTCCTCAGGGCTTGTCACCTTCA GTTCTTGAATACTA
89394 I A GAGGCAAACCGAAGTTCATCGTCTTGGTTCTCCT
89394 P G A ATGACGTGGCAGACGACAGTAGATCTCAGCAATAAY
89394 P A A CGCGCCGAGGAACAGTAGATCTCAGCAATAACY
89394 T G A ATTGGTTATTGCTGAGATCTACTGTGGAGAACCAAGACGATGAACTTCGGTTTGCCTCAG
89394 T A A ATTGGTTATTGCTGAGATCTACTGTTGGAGAACCAAGACGATGAACTTCGGTTTGCCTCAG
89394 IS [GA] TTCTTTTATAGCCTTGGATGTCTCTCTGAGGCAAACCGAAGTTCATCGTCTTGGTTCTCC[GA]ACAGTAGATCTCAGCAATAACCAATAACCAAAGAAAACCCTTTAAAG CGTTCTTCAAGTA
89403 I S GGGAATGTGAAGCAATAGGCACATGGGGCTTT
89403 P C S ATGACGTGGCAGACGGATGAATTGGTCCCACY
89403 P T S CGCGCCGAGGAGATGAATTGGTCCCACAY
89403 T C S TATCTGTGGGACAATTCATCCAAGCCCATGTGCCTATTGCTTCACATTCCCCC
89403 T T S TATCTGTGGGACAAATTCATCTAAGCCCATGTGCCTATTGCTTCACATTCCCCC
89403 IS [CT] AGCAGTGGACTCATCACCTCAGCGGCTTAAGGCAGGGTATATCTGTGGGACCAATTCATC[CT]AAGCCCCATGTGCCTATTGCTTCACATTCCCCCTTTAAAACCTAGTCA TATTCATTAGTG
89405 I A ATTCTAAAGTCAGTCACATTTTGTACCTTTAAAAGACATAGTTAAAAATACACACT
89405 P A A CGCGCCGAGGAGCCCACAGATCAGTTY
89405 P G A ATGACGTGGCAGACGGCCCACAGATCAGTY
89405 T A A TATAAACTGATCTGTGGGCTGTGTATTTTTAACTATGTCTTTTAAAGGTACAAAATGTGACTGACTTTAGAATGA
89405 T G A TATAAACTGATCTGTGGGCCGTGTGTATTTTTAACTATGTCTTTTAAAGGTACAAAATGTGACTGACTTTAGAATGA
89405 IS [AG] TTTTCATTCTAAAGTCAGTCACATTTTGTACCTTTAAAAGACATAGTTAAAAATACACAC[AG]GCCCACAGATCAGTTTATAAGATATATCCAAATAGTTTAAAGTGTT AAAAGTATTACCA
89406 I A AGTACTGGGTGGTTCAGCAGGGAAGCCT
89406 P G A ATGACGTGGCAGACGGGTGGGACCAGTGY
89406 P A A CGCGCCGAGGAGATGGGACCAGTGY
89406 T G A GACACACTGGTCCCACCGGGCTTCCCTGCTGAACCACCCAGTACTGA
89406 T A A GACACACTGGTCCCACCTGGCTTCCCTGCTGAACCACCCAGTACTGA
89406 IS [GA] TGATGTCATCCCACATTGGTACAGGTGTTATTCAGTACTGGGTGGTTCAGCAGGGAAGCC[GA]GGTGGGACCAGTGTGTCTGTCATGAAACCACTAACTGCATTCCTGAC TGAAGAGCCATCT KIAAD193
89408 I A TCCTCCCTTTCTTTCTCTGCACTTATCCTTTAGATTAAATACTACT
89408 P G A ATGACGTGGCAGACGTAAATATAGTTAGCACTCAGTGTY
89408 P A A CGCGCCGAGGATAAATATAGTTAGCACTCAGTGTY
89408 T G A AAGGACACTGAGTGCTAACTATATTTACGTAGTATTTAATCTAAAGGATAAGTGCAGAGAAAGAAAGGGAGGAAC
89408 T A A AAGGACACTGAGTGCTAACTATATTTATGTAGTATTTAATCTAAAGGATAAGTGCAGAGAAAGAAAGGGAGGAAC
89408 IS [GA] TTCATGTTTTATTGTTCCTCCCTTTCTTTCTCTGCACTTATCCTTTAGATTAAATACTAC[GA]TAAATATAGTTAGCACTCAGTGTCCTTGTAGTGCTTGGGAGAGAGGA AGGATCTGCCTCT
89412 I A TGTCAAGCGCTGTTGGACTCAGTATGTCCTTCTCT
89412 P A A CGCGCCGAGGATTCAATGGAGCAGATTTCCY
89412 P G A ATGACGTGGCAGACGTTCAATGGAGCAGATTTCY
89412 T A A GAAGGGAAATCTGCTCCATTGAATGAGAAGGACATACTGAGTCCAACAGCGCTTGACAGT
89412 T G A GAAGGGAAATCTGCTCCATTGAACGAGAAGGACATACTGAGTCCAACAGCGCTTGACAGT
89412 IS [AG] GCTCCACCCGGAGAGCAGGGGGCACTGTCAAGCGCTGTTGGACTCAGTATGTCCTTCTC[AG]TTCAATGGAGCAGATTTCCCTTCTGATCACATTCAATTAAGGAAAAT GGAGATGGCTGGT
89414 I A GCAGAGTTAATAATGTCATCGCCCTGGGAACCTCCT
89414 P G A ATGACGTGGCAGACGTTTCCTTATCTGTTAAATGGGY
89414 P A A CGCGCCGAGGATTTCCTTATCTGTTAAATGGGTY
89414 T G A CTCAACCCATTTAACAGATAAGGAACGGAGGTTCCCAGGGCGATCACATTATTAACTCTGCAC
89414 T A A CTCAACCCATTTAACAGATAAGGAAATGGAGGTTCCCAGGGCGATCACATTATTAACTCTGCAC
89414 IS [GA] CTTGGGGAATCGACATCTGACGTGTGCAGAGTTAATAATGTCATCGCCCTGGGAACCTCC[GA]TTTCCTTATCTGTTAAATGGGTTGAGACGCTGGCCTGGGCTCCTGTC TGAGGACAGGAGT
89417 I S CAGCAGACAACCCCCACGGTGTTTGGT
89417 P T S CGCGCCGAGGAGACAAAGGAATAGCAGCY
89417 P C S ATGACGTGGCAGACGGACAAAGGAATAGCAGCY
89417 T T S GGCAGCTGCTATTCCTTTGTCTCCAAACACCGTGGGGGTTGTCTCTGCTGCA
89417 T C S GGCAGCTGCTATTCCTTTGTCCCCAAACACCGTGGGGGTTGTCTCTGCTGCA
89417 IS [TC] ACTGCCATCGTCAGAGCACGGGGTGATTCAAGGAAACCAGGCAGCTGCTATTCCTTTGTC[TC]CCAAACACCGTGGGGGTTGTCTCTGCTGCAACCTTTGGTGAGCTCCTGA GCTGCAGTCCATT
89457 I A ACGCTGTGGTTCTCAACATGTAGCTGCCCA
89457 P C A ATGACGTGGCAGACCCCTGGGGAACACTCY
89457 P T A CGCGCCGAGGTCCTGGGGAACACTCY
89457 T C A CCCCGAGTGTTCCCCAGGGGGGCAGCTACATGTTGAGAACCACAGGGTCC
89457 T T A CCCCGAGTGTTCCCCAGGAGGGCAGCTACATGTTGAGAACCACAGGGTCC

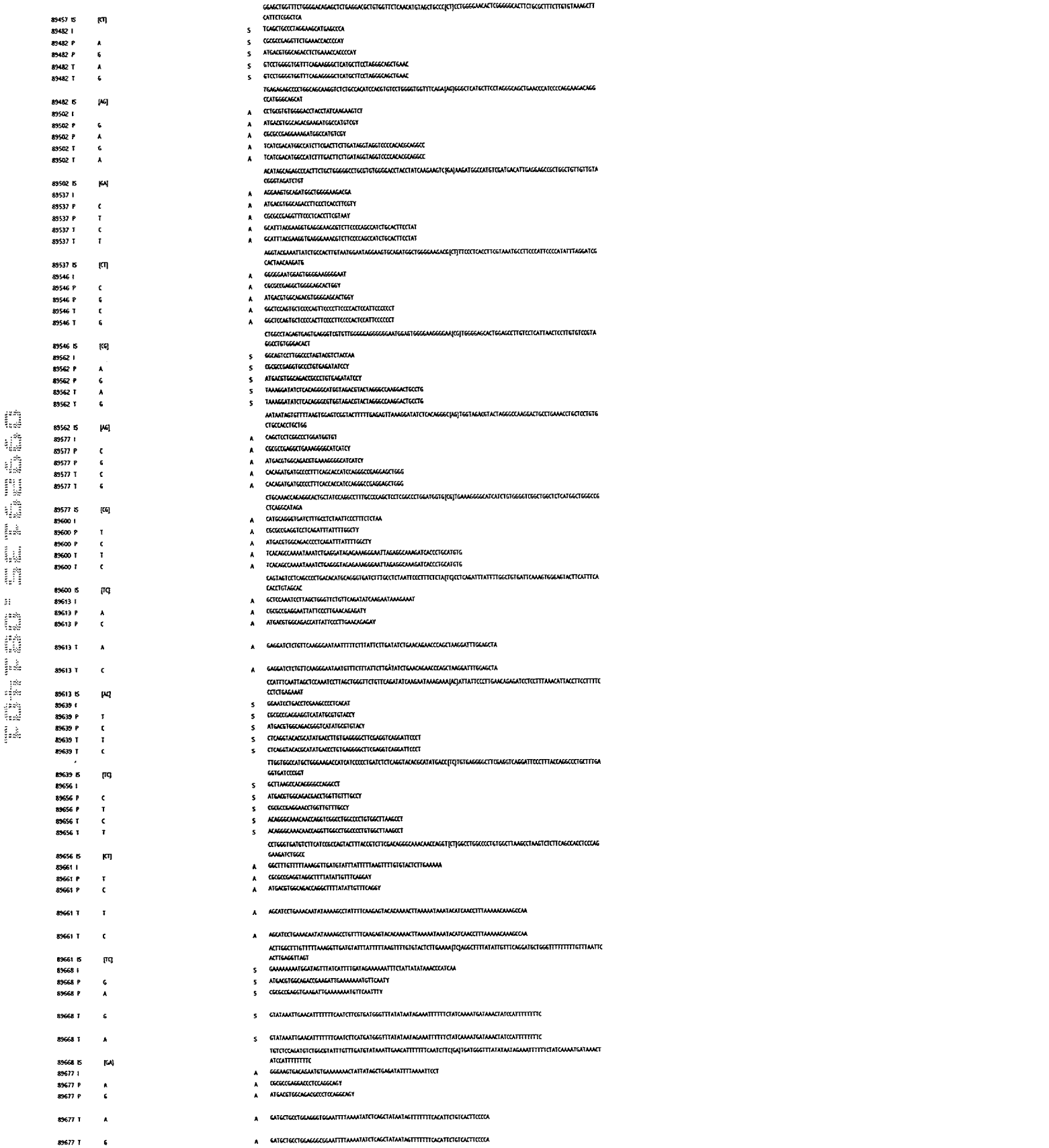
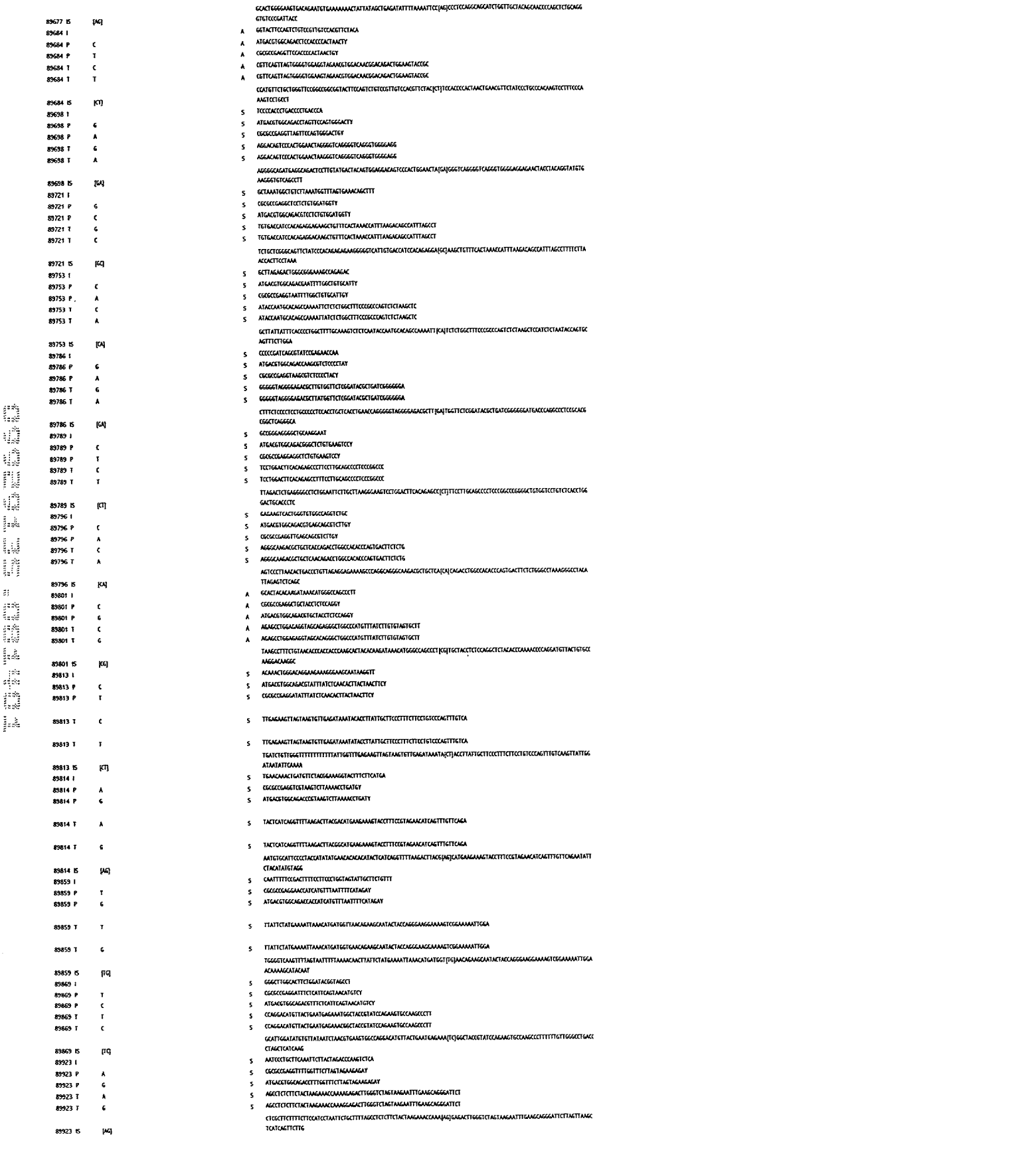
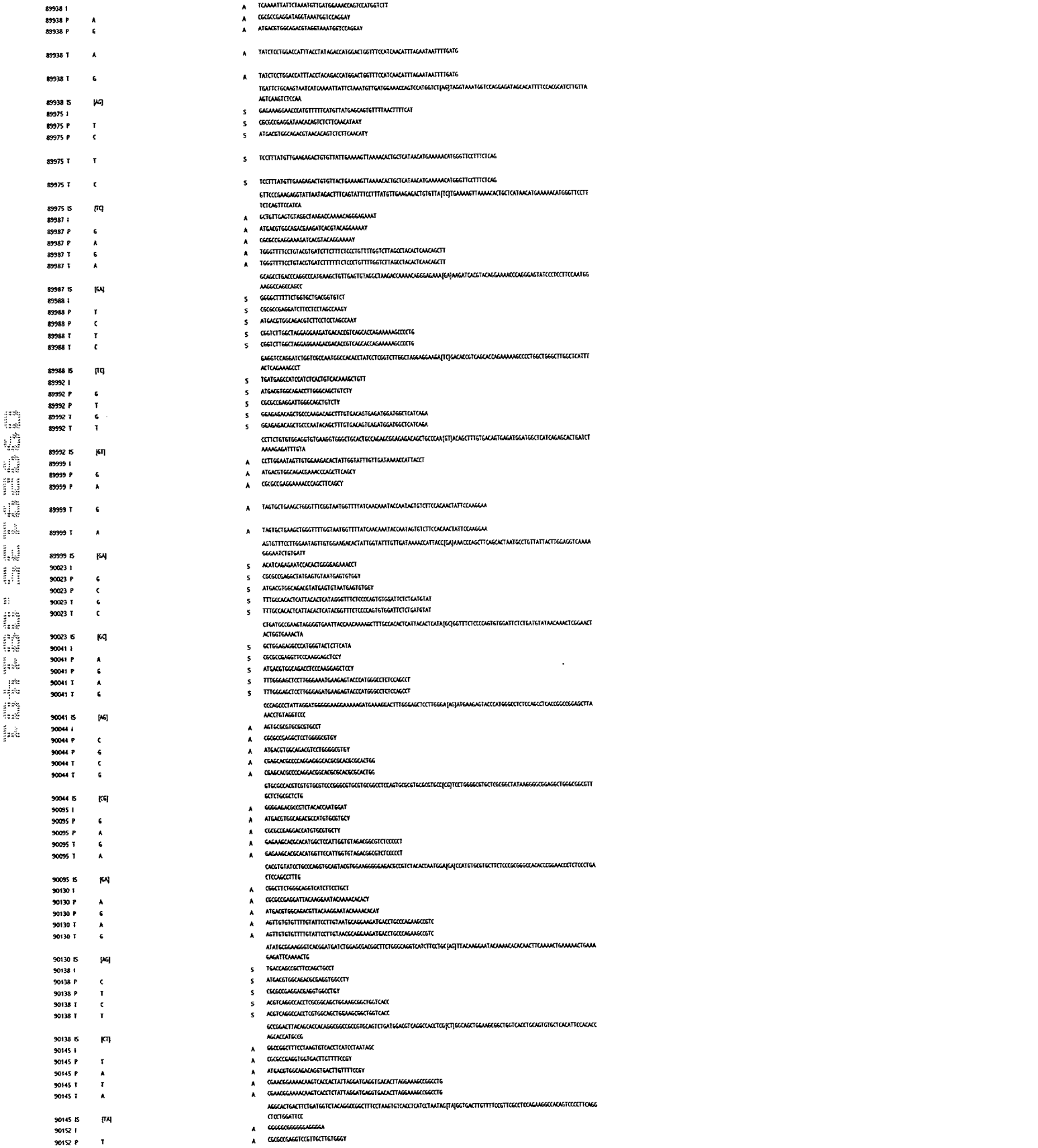
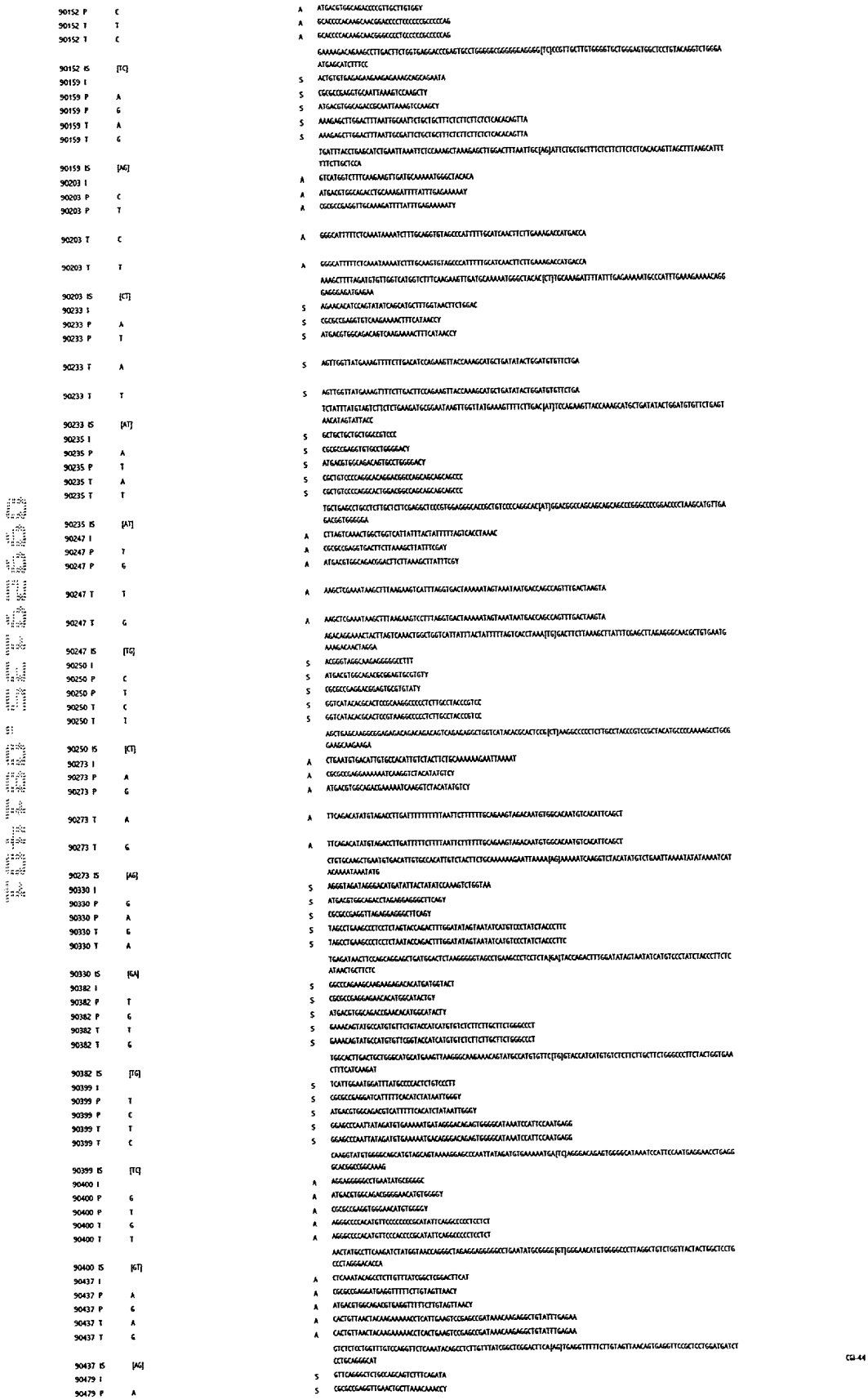


FIGURE 129C






90152 P C A ATGACGTGGCAGACCCCGTTGCTTGTGGY
90152 T T A GCACCCCACAAGCAACGGACCCCTCCCCCGCCCCCAG
90152 T C A GCACCCCACAAGCAACGGGCCCCTCCCCCGCCCCCAG
90152 IS [TC] GAAAAGACAAGAAGCCTTGACTTCTGGTGAGGACCCCAGTGCCTGGGGGCGGGGGGAGGGG[TC]CCGTTGCTTGTGGGGTGCTGGGAGTGGCTCCCTGTACAGGTCTGGGA ATGAGCATCTTCC
90159 I S ACTGTGTGAGAGAGAAGAGAAAGCAGCAGAATA
90159 P A S CGCGCCGAGGTGCAATTAAAGTCCAAGCTY
90159 P G S ATGACGTGGCAGACCGCAATTAAAGTCCAAGCY
90159 T A S AAAGAGCTTGGACTTTAATTGCAATTCTGCTGCTTTCTCTTCTTCTCTCACACAGTTA
90159 T G S AAAGAGCTTGGACTTTAATTGCGATTCTGCTGCTTTCTCTTCTTCTCTCACACAGTTA
90159 IS [AG] TGATTTACCTGAGCATCTGAATTAAATTCTCCAAAGCTAAAGAGCTTGGACTTTAATTGC[AG]ATTCTGCTGCTTTCTCTTCTTCTCTCACACAGTTAGCTTTAAGCATTT TTTCTTGCTCCA
90203 I A GTCATGGTCTTTCAAGAAGTTGATGCAAAAATGGGCTACACA
90203 P C A ATGACGTGGCAGACCTGCAAAGATTTTATTTGAGAAAAAY
90203 P T A CGCGCCGAGGTTGCAAAGATTTTATTTGAGAAAAATY
90203 T C A GGGCATTTTTCTCAAATAAAATCTTTGCAGGTGTAGCCCATTTTTGCATCAACTTCTTGAAAGACCATGACCA
90203 T T A GGGCATTTTTCTCAAATAAAATCTTTGCAAGTGTAGCCCATTTTTGCATCAACTTCTTGAAAGACCATGACCA
90203 IS [CT] AAAGCTTTTAGATGTGTTGGTCATGGTCTTTCAAGAAGTTGATGCAAAAATGGGCTACAC[CT]TGCAAAGATTTTATTTGAGAAAAATGCCCATTTGAAAGAAAACAGG GAGGGAGATGAGAA
90233 I S AGAACACATCCAGTATATCAGCATGCTTTGGTAACTTCTGGAC
90233 P A S CGCGCCGAGGTGTCAAGAAAACTTTCATAACCY
90233 P T S ATGACGTGGCAGACAGTCAAGAAAACTTTCATAACCY
90233 T A S AGTTGGTTATGAAAGTTTTCTTGACATCCAGAAGTTACCAAAGCATGCTGATATACTGGATGTGTTCTGA
90233 T T S AGTTGGTTATGAAAGTTTTCTTGACTTCCAGAAGTTACCAAAGCATGCTGATATACTGGATGTGTTCTGA
90233 IS [AT] TCTATTTATGTAGTCTTCTCTGAAGATGCGGAATAAGTTGGTTATGAAAGTTTTCTTGAC[AT]TCCAGAAGTTACCAAAGCATGCTGATATACTGGATGTGTTCTGAGT AACATAGTATTACC
90235 I S GCTGCTGCTGCTGGCCGTCCC
90235 P A S CGCGCCGAGGTGTGCCTGGGGACY
90235 P T S ATGACGTGGCAGACAGTGCCTGGGGACY
90235 T A S CGCTGTCCCCAGGCACAGGACGGCCAGCAGCAGCAGCCC
90235 T T S CGCTGTCCCCAGGCACTGGACGGCCAGCAGCAGCAGCCC
90235 IS [AT] TGCTGAGCCTGCCTCTGCTCTTCGAGGCTCCCGTGGAGGGCACCGCTGTCCCCAGGCAC[AT]GGACGGCCAGCAGCAGCAGCCCGGGCCCCGGACCCCTAAGCATGTTGA GACGGTGGGGGA
90247 I A CTTAGTCAAACTGGCTGGTCATTATTTACTATTTTTAGTCACCTAAAC
90247 P T A CGCGCCGAGGTGACTTCTTAAAGCTTATTTCGAY
90247 P G A ATGACGTGGCAGACGGACTTCTTAAAGCTTATTTCGY
90247 T T A AAGCTCGAAATAAGCTTTAAGAAGTCATTTAGGTGACTAAAAATAGTAAATAATGACCAGCCAGTTTGACTAAGTA
90247 T G A AAGCTCGAAATAAGCTTTAAGAAGTCCTTTAGGTGACTAAAAATAGTAAATAATGACCAGCCAGTTTGACTAAGTA
90247 IS [TG] AGACAGGAAACTACTTAGTCAAACTGGCTGGTCATTATTTACTATTTTTAGTCACCTAAA[TG]GACTTCTTAAAGCTTATTTCGAGCTTAGAGGGCAACGCTGTGAATG AAAGACAACTAGGA
90250 I S ACGGGTAGGCAAGAGGGGGCCTTT
90250 P C S ATGACGTGGCAGACGCGGAGTGCGTGTY
90250 P T S CGCGCCGAGGACGGAGTGCGTGTATY
90250 T C S GGTCATACACGCACTCCCCAAGGCCCCCTCTTGCCTACCCGTCC
90250 T T S GGTCATACACGCACTCCGTAAGGCCCCCTCTTGCCTACCGTCC
90250 IS [CT] AGCTGAGCAAGGCGGAGAGACAGACAGACAGTCAGACAGGCTGGTCATACACGCACTCCG[CT]AAGGCCCCCTCTTGCCTACCCGTCCGCTACATGCCCCAAAAGCCTGCG GAAGCAAGAAGA
90273 I A CTGAATGTGACATTGTGCCACATTGTCTACTTCTGCAAAAAAGAATTAAAAT
90273 P A A CGCGCCGAGGAAAAAAATCAAGGTCTACATATGTCY
90273 P G A ATGACGTGGCAGACGAAAAATCAAGGTCTACATATGTCY
90273 T A A TTCAGACATATGTAGACCTTGATTTTTTTTTTAATTCTTTTTTGCAGAAGTAGACAATGTGGCACAATGTCACATTCAGCT
90273 T G A TTCAGACATATGTAGACCTTGATTTTTCTTTTAATTCTTTTTTGCAGAAGTAGACAATGTGGCACAATGTCACATTCAGCT
90273 IS [AG] CTGTGCAAGCTGAATGTGACATTGTGCCACATTGTCTACTTCTGCAAAAAAGAATTAAAA[AG]AAAAATCAAGGTCTACATATGTCTGAATTAAAATATATAAAATCAT ACAAAATAAATATG
90330 I S AGGGTAGATAGGGACATGATATTACTATATCCAAAGTCTGGTAA
90330 P G S ATGACGTGGCAGACCTACAGGAGAGGGCTTCAGY
90330 P A S CGCGCCGAGGTTAGAGGAGGGCTTCAGY
90330 T G S TAGCCTGAAGCCCTCCTCTAGTACCAGACTTTGGATATAGTAATATCATGTCCCTATCTACCCTTC
90330 T A S TAGCCTGAAGCCCTCCTCTAATACCAGACTTTGGATATAGTAATATCATGTCCCTATCTACCCTTC
90330 IS [GA] TGAGATAACTTCCAGCAGGAAGCTGATGGACTCTAAGGGGGTAGCCTGAAGCCCTCCTCTA[GA]TACCAGACTTTGGATATAGTAATATCATGTCCCTATCTACCCTTCTC ATAACTGCTTCTC
90382 I S GGCCCAGAAGCAAGAAGAGACACATGATGGTACT
90382 P T S CGCGCCGAGGAGAACACATGGCATACTGY
90382 P G S ATGACGTGGCAGACCGAACACATGGCATACTY
90382 T T S GAAACAGTATGCCATGTGTTCTGTACCATCATGTGTCTCTTCTTGCTTCTGGGCCCT
90382 T G S GAAACAGTATGCCATGTGTTCGGTACCATCATGTGTCTCTTCTTGCTTCTGGGCCCT
90382 IS [TG] TGGCACTTGACTGCTGGGCATGCATGAAGTTAAGGGCAAGAAACAGTATGCCATGTGTTCT[TG]GTACCATCATGTGTCTCTTCTTGCTTCTGGGCCCTTCTACTGGTGAA CTTTCATCAAGAT
90399 I S TCATTGGAATGGATTTATGCCCCACTCTGTCCCTT
90399 P T S CGCGCCGAGGATCATTTTTCACATCTATAATTGGGY
90399 P C S ATGACGTGGCAGACGTCATTTTTCACATCTATAATTGGGY
90399 T T S GGAGCCCAATTATAGATGTGAAAAATGATAGGGACAGAGTGGGGCATAAATCCATTCCAATGAGG
90399 T C S GGAGCCCAATTATAGATGTGAAAAATGACAGGGACAGAGTGGGGCATAAATCCATTCCAATGAGG
90399 IS [TC] CAAGGTATGTGGGGCAGCATGTAGCAGTAAAAGGAGCCCAATTATAGATGTGAAAAATGA[TC]AGGGACAGAGTGGGGCATAAATCCATTCCAATGAGGAACCTGAGG GCACGGCCGGCAAAG
90400 I A AGGAGGGGGCCTGAATATGCGGGGC
90400 P G A ATGACGTGGCAGACGGGGAACATGTGGGGY
90400 P T A CGCGCCGAGGTGGCAACATGTGGGGY
90400 T G A AGGGCCCCACATGTTCCCCCCCCGCATATTCAGGCCCCCTCCTCT
90400 T T A AGGGCCCCACATGTTCCCACCCCGCATATTCAGGCCCCCTCCTCT
90400 IS [GT] AACTATGCCTTCAAGATCTATGGTAACCAGGGCTAGAGGAGGGGGCCTGAATATGCGGGGG[GT]GGGAACATGTGGGGCCCTTAGGCTGTCTGGTTACTACTGGCTCCTG CCCTAGGGACACCA
90437 I A CTCAAATACAGCCTCTTGTTTATCGGCTCGGACTTCAT
90437 P A A CGGCGCCAGGATGAGGTTTTTCTTGTAGTTAACY
90437 P G A ATGACGTGGCAGACGTGAGGTTTTTCTTGTAGTTAACY
90437 T A A CACTGTTAACTACAACAAAAAACTCATTGAAGTCCGAGCCGATAAACAAGAGGCTGTATTTGAGAA
90437 T G A CACTGTTAACTACAACAAAAAACTCACTGAAGTCCGAGCCGATAAACAAGAGGCTGTATTTGAGAA
90437 IS [AG] GTCTCTCCTGGTTTGTGTCAAGGTCTCAAATACAGCCTCTTGTTTATCGGCTCGGACTTCA[AG]TGAGGTTTTTCTTGTAGTTAACAGTGAGGTTCCGCTCCTGGATGATCT CCTGCAGGGCAT
90479 I S GTTCAGGGCTCTGCCAGCAGTCTTTCAGATA
90479 P A S CGCGCCGAGGTTGAACTGCTTAAACAAACY

CGI-44

FIGURE 129C

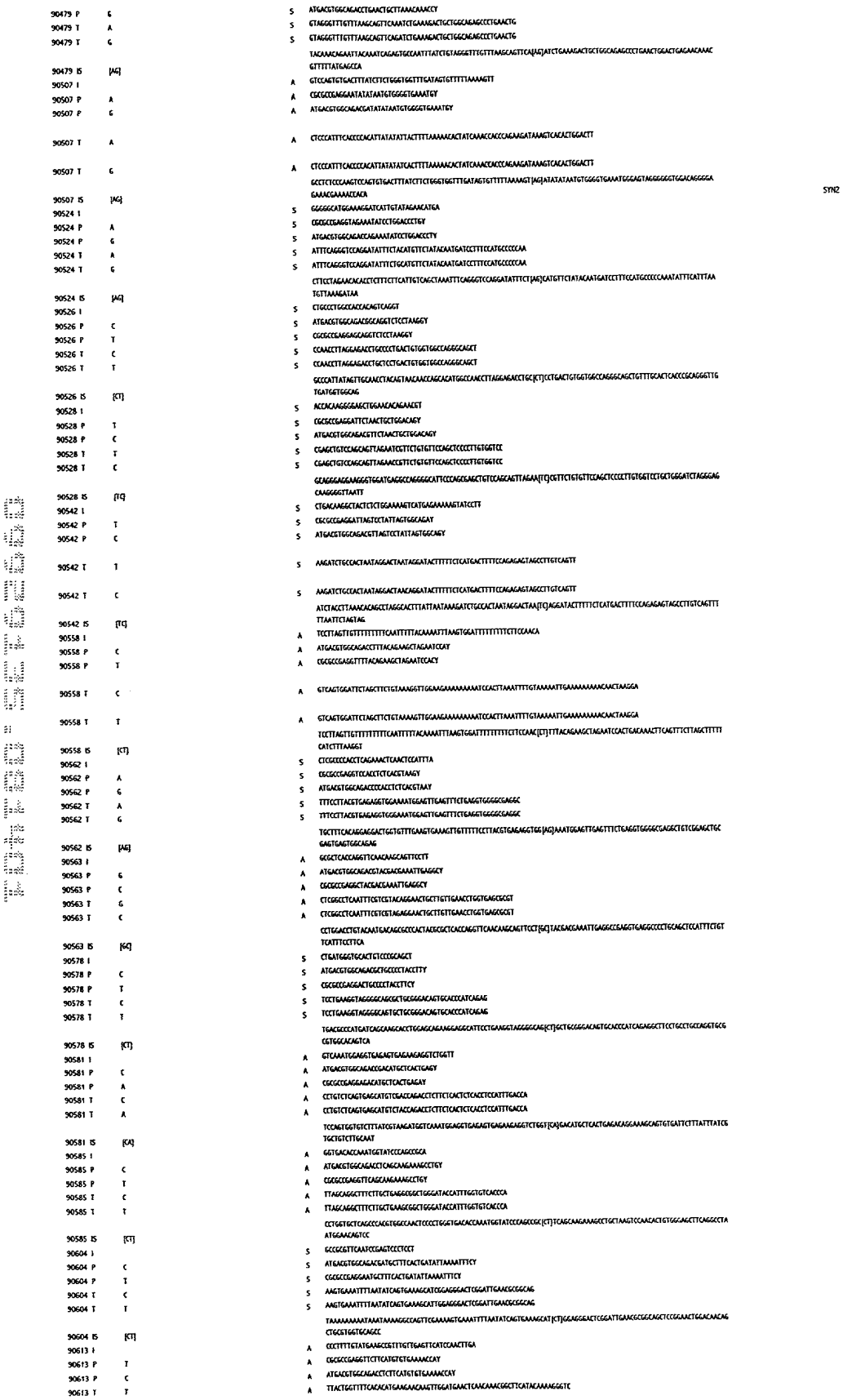
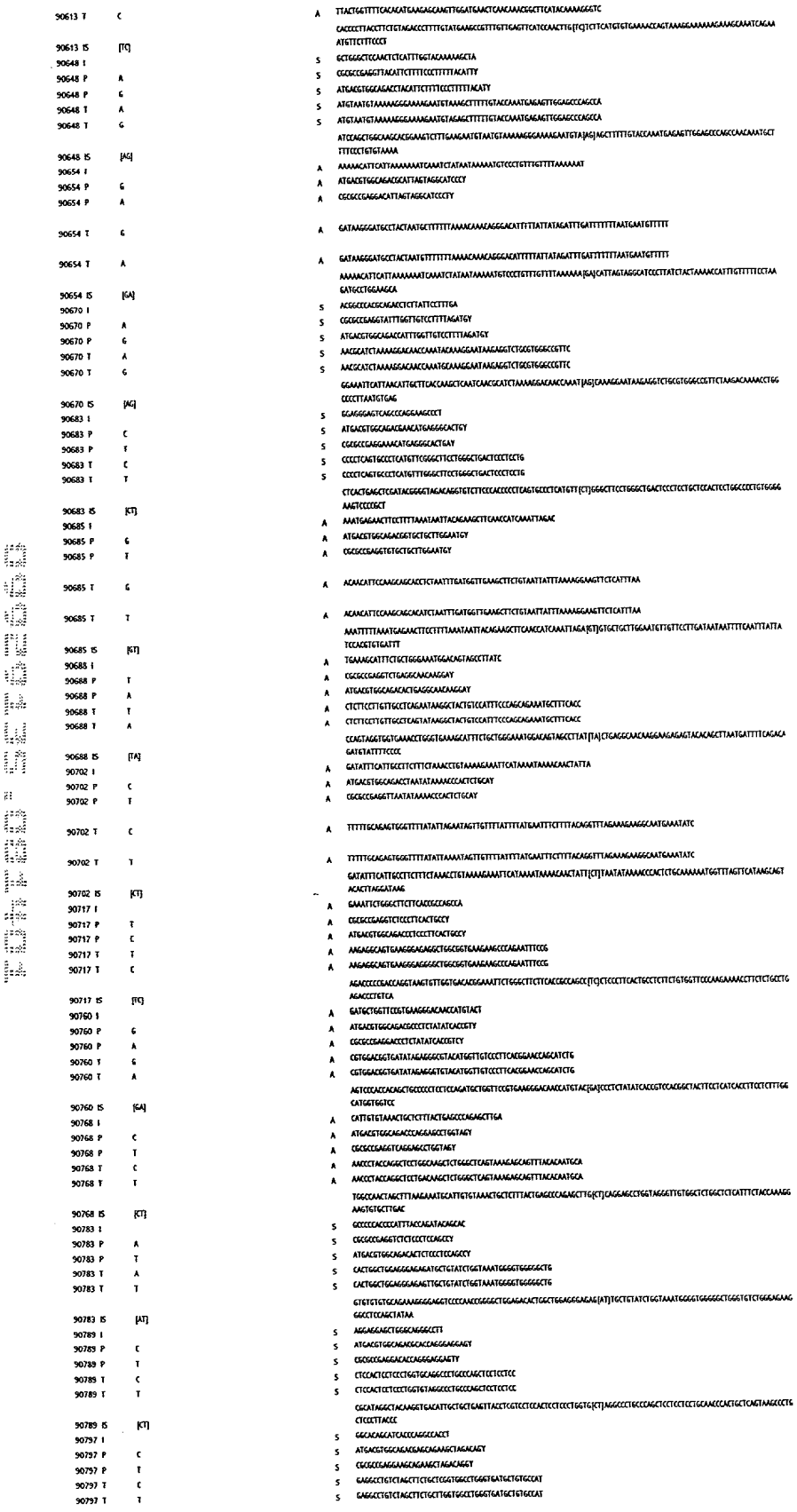


FIGURE 129C



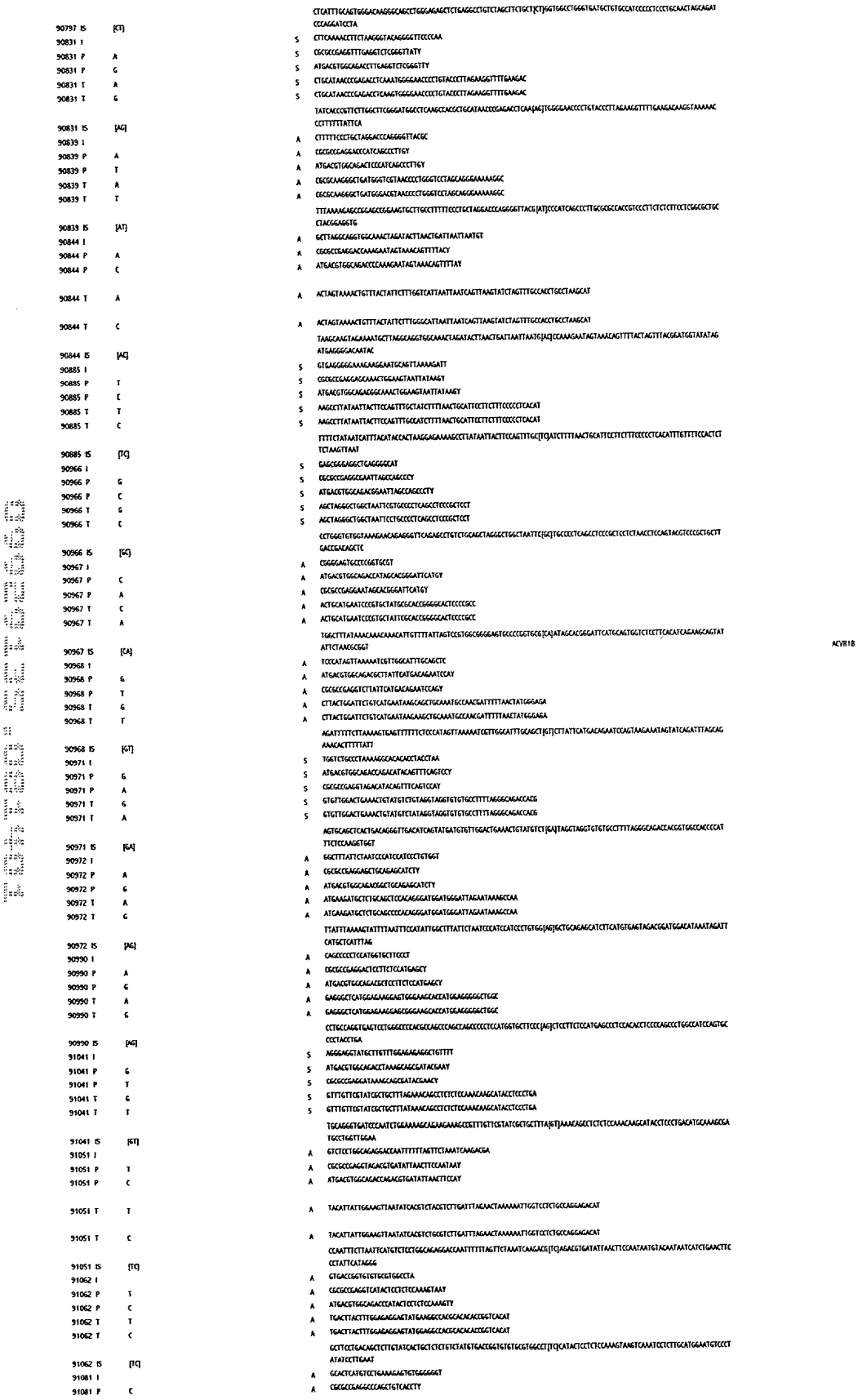
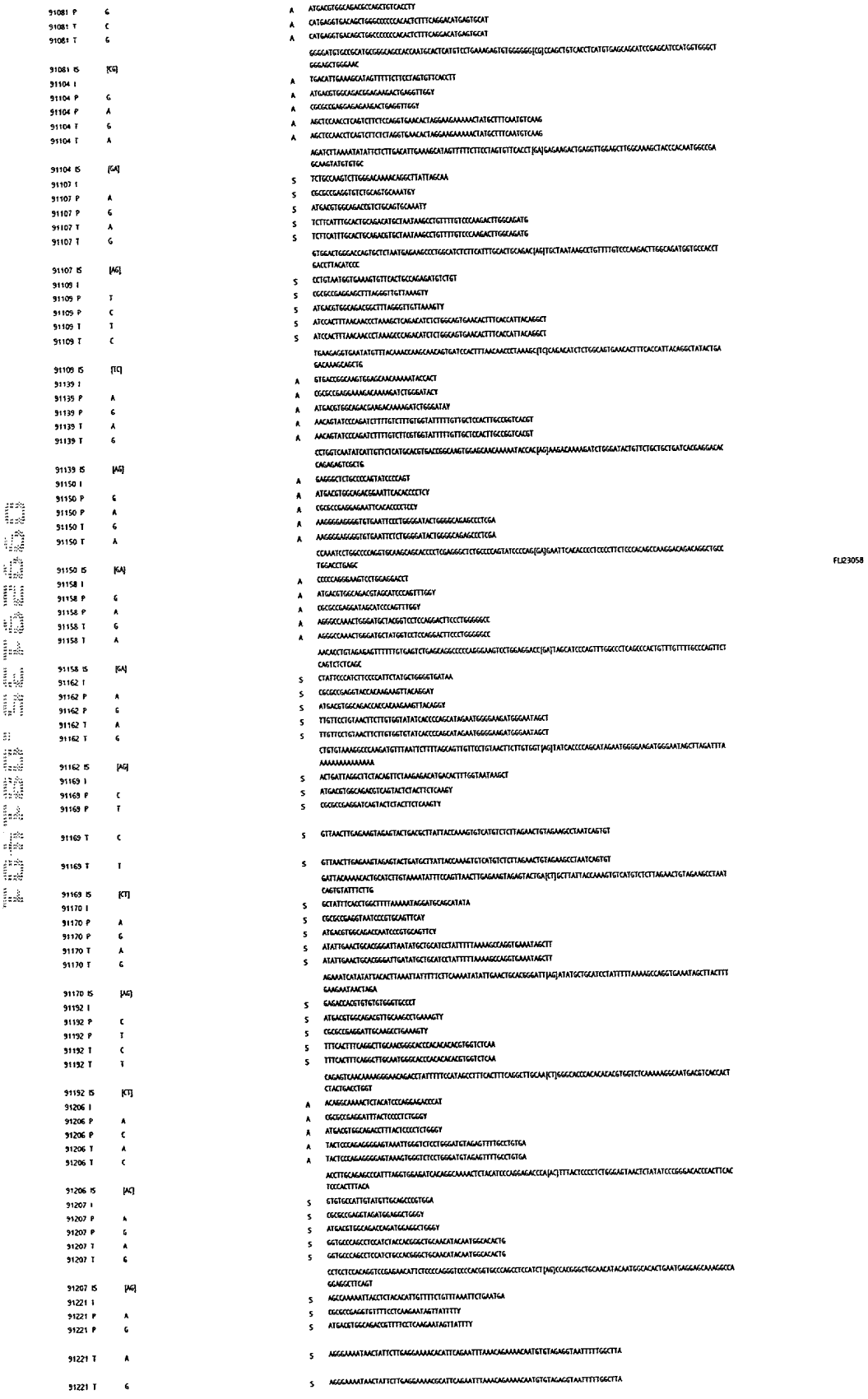
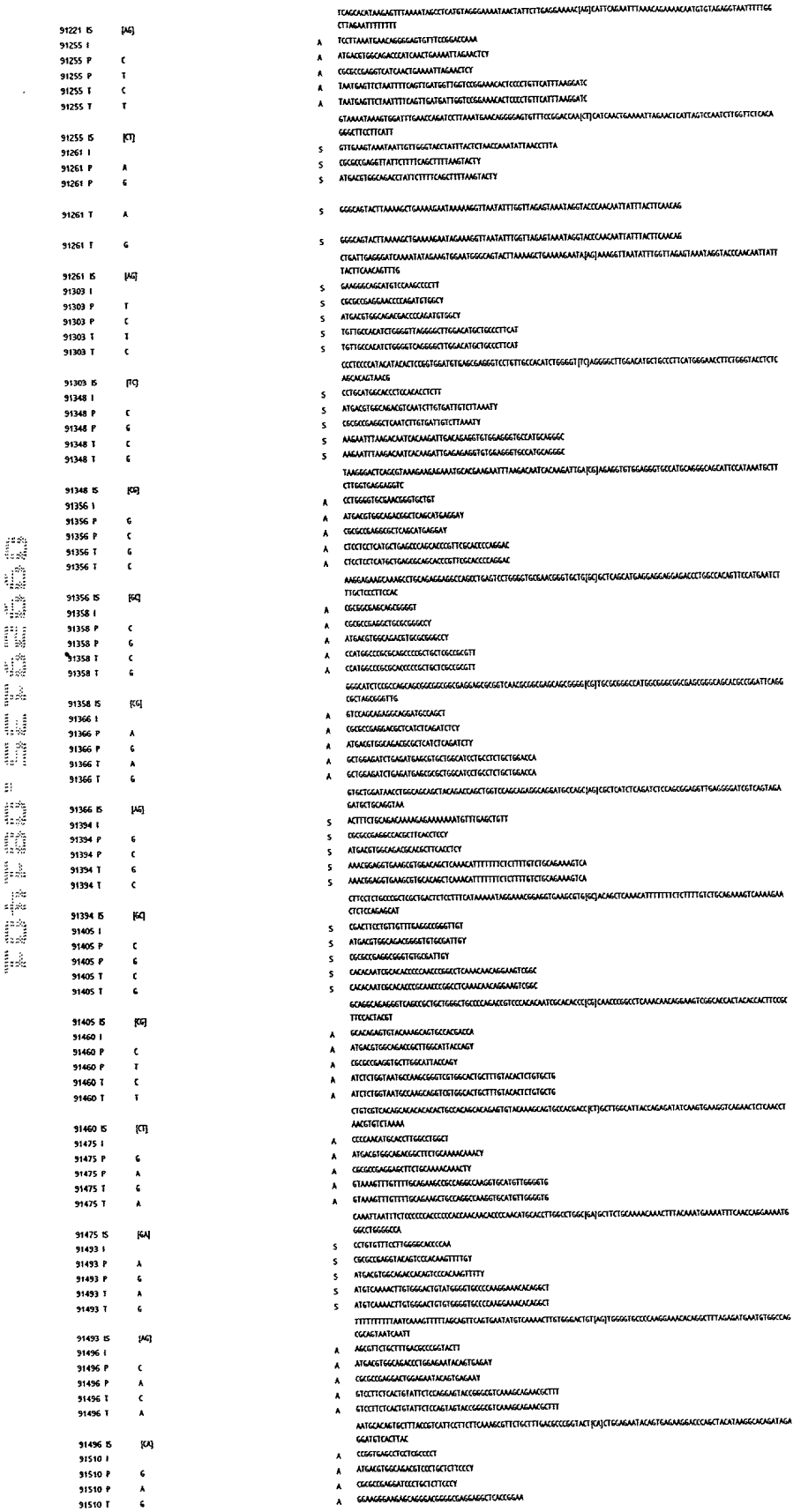

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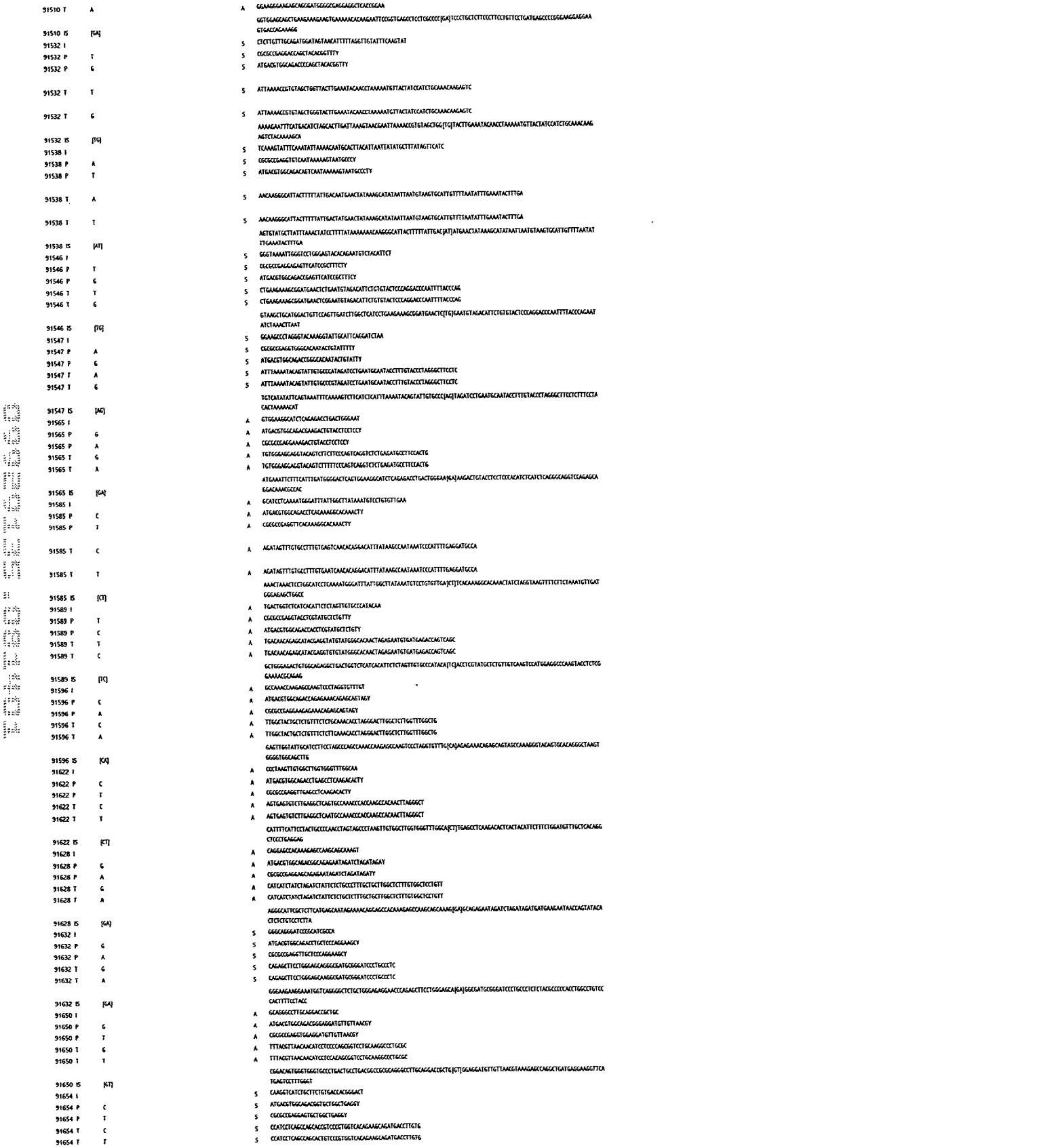
FIGURE 129C



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FIGURE 129C




91510 T A
A GGAAGGGAAGAGCAGGGATGGGGCGAGGAGGCTCACCGGAA
GGTGGAGCAGCTGAAGAAAGAGTGAAAAACACAAGAATTCCGGTGAGCCTCCTGCCCC[GA]TCCCTGCTCTTCCCTTCCTGTTCCTGATGAGCCCCGGGAAGGAGGAA
GTGACCACAAAGG
91510 IS [GA]
91532 I
S CTCTTGTTTGCAGATGGATAGTAACATTTTTAGGTTGTATTTCAAGTAT
91532 P T
S CGCGCCGAGGACCAGCTACACGGTTTY
91532 P G
S ATGACGTGGCAGACCCCAGCTACACGGTTY
91532 T T
S ATTAAAACCGTGTAGCTGGTTACTTGAAATACAACCTAAAAATGTTACTATCCATCTGCAAACAAGAGTC
91532 T G
S ATTAAAACCGTGTAGCTGGGTACTTGAAATACAACCTAAAAATGTTACTATCCATCTGCAAACAAGAGTC
AAAAGAATTTGATACACTCTAGCACTTGATTAAAGTAACGAATTAAAACCGTGTAGCTGG[TG]TACTTGAAATACAACCTAAAAATGTTACTATCCATCTGCAAACAAG
AGTCTACAAAAGCA
91532 IS [TG]
91538 I
S TCAAAGTATTTCAAATATTAAAACAATGCACTTAGATTAATTATATGCTTTATAGTTCATC
91538 P A
S CGCGCCGAGGTGTCAATAAAAAGTAATGCCCY
91538 P T
S ATGACGTGGCAGACAGTCAATAAAAAGTAATGCCCTY
91538 T A
S AACAAGGGCATTACTTTTTATTGACAATGAACTATAAAGCATATAATTAATGTAAGTGCATTGTTTTAATATTTGAAATACTTTGA
91538 T T
S AACAAGGGCATTACTTTTTATTGACTATGAACTATAAAGCATATAATTAATGTAAGTGCATTGTTTTAATATTTGAAATACTTTGA
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TTGAAATACTTTGA
91538 IS [AT]
91546 I
S GGGTAAAATTGGGTCCTGGGAGTACACACAAATGTCTACATTCT
91546 P T
S CGCGCCGAGGAGAGTTCATCCGCTTTCTY
91546 P G
S ATGACGTGGCAGACCGAGTTCATCCGCTTTCY
91546 T T
S CTGAAGAAAGCGGATGAACTCTGAATGTAGACATTCTGTGTACTCCCAGGACCCAATTTTACCCAG
91546 T G
S CTGAAGAAAGCGGATGAACTCGGAATGTAGACATTCTGTGTACTCCCAGGACCCAATTTTACCCAG
GTAAGCTGCATGGACTGTTCCAGTTGATCTTGGCTCATCCTGAAGAAAGCGGATGAACTC[TG]GAATGTAGACATTCTGTGTACTCCCAGGACCCAATTTTACCCAGAAT
ATCTAAACTTAAT
91546 IS [TG]
91547 I
S GGAAGCCCTAGGGTACAAAGGTATTGCATTCAGGATCTAA
91547 P A
S CGCGCCCAAGCTGGGCACAATACTGTATTTTY
91547 P G
S ATGACGTGGCAGACGGGCACAATACTGTATTY
91547 T A
S ATTTAAAATACAGTATTGTGCCCATAGATCCTGAATGCAATACCTTTGTACCCTAGGGCTTCCTC
91547 T G
S ATTTAAAATACAGTATTGTGCCCGTAGATCCTGAATGCAATACCTTTGTACCCTAGGGCTTCCTC
TGTCATATATTCAGTAAATTTCAAAAGTCTTCATCTCATTTAAAATACAGTATTGTGCCC[AG]TAGATCCTGAATGCAATACCTTTGTACCCTAGGGCTTCCTCTTTCCTA
CACTAAAAACAT
91547 IS [AG]
91565 I
A GTGGAAGGCATCTCAGAGAGCCTGACTGGGAAT
91565 P G
A ATGACGTGGCAGACGAAGACTGTACCTCCTCCY
91565 P A
A CGCGCCGAGGAAAGACTGTACCTCCTCCY
91565 T G
A TGTGGGAGGAGGTACAGTCTTCTTCCCAGTCAGGTCTCTGAGATGCCTTCCACTG
91565 T A
A TGTGGGAGGAGGTACAGTCTTTTCCCAGTCAGGTCTCTGAGATGCCTTCCACTG
ATGAAATTCTTTCATTTGATGGGGACTCAGTGGAAGGCATCTCAGAGACCTGACTGGGAA[GA]AAGACTGTACCTCCTCCCACATCTCATCTCAGGGCAGGTCCAGAGCA
GGACAAAGCCCAC
91565 IS [GA]
91585 I
A GCATCCTCAAAATGGGATTTATTGGCTTATAAATGTCCTGTGTTGAA
91585 P C
A ATGACGTGGCAGACCTCACAAAGCACAAACTY
91585 P T
A CGCCCCGAGGTTCACAAAGGCACAAACTY
91585 T C
A AGATAGTTTGTGCCTTTGTGAGTCAACACAGGACATTTATAAGCCAATAAATCCCATTTTGAGGATGCCA
91585 T T
A AGATAGTTTGTGCCTTTGTGAATCAACACAGGACATTTATAAGCCAATAAATCCCATTTTGAGGATGCCA
AAACTAAACTCCTGGCATCCTCAAAATGGGATTTATTGGCTTATAAATGTCCTGTGTTGA[CT]TCAAAAGGCACAAACTATCTAGGTAAGTTTTCTTCTAAATGTTGAT
GGGAAGAGCTGGCC
91585 IS [CT]
91589 I
A TGACTGGTCTCATCACATTCTCTAGTTGTGCCCATACAA
91589 P T
A CGCGCCGAGGTACCTGGTATGCTCTGTTY
91589 P C
A ATGACGTGGCAGACAACCTCGTATGCTCTGTY
91589 T T
A TGACAACAGAGCATACGAGGTATGTATGGGCACAACTAGAGAATGTGATGAGACCAGTCAGC
91589 T C
A TGACAACAGAGCATACGAGGTGTGTATGGGCACAACTAGAGAATGTGATGAGACCAGTCAGC
GCTGGGAGACTGTGGCAGAGGCTGACTGGTCTCATCACATTCTCTAGTTGTGCCCATACA[TC]ACCTCGTATGCTCTGTTGTCAAGTCCATGGAGGCCCAAGTACCTCTCG
GAAAACGCAGAG
91589 IS [TC]
91596 I
A GCCAAACCAAGAGCCAAGTCCCTAGGTGTTTGT
91596 P C
A ATGACGTGGCAGACCAGAGAAACAGAGCAGTAGY
91596 P A
A CGCGCCGAGGAAGAGAAACAGAGCAGTAGY
91596 T C
A TTGGCTACTGCTCTGTTTCTCTCAAACACCTAGGGACTTGGCTCTTGGTTTGGCTG
91596 T A
A TTGGCTACTGCTCTGTTTCTCTCAAACACCTAGGGACTTGGCTCTTGGTTTGGCTG
GAGTTGGTATTGCATCCTTCCTAGCCCAGCCAAACCAAGAGCCAAGTCCCTAGGTGTTTG[CA]AGAGAAACAGAGCAGTAGCCAAAGGGTACAGTGCACAGGGCTAAGT
GGGGTGGCAGCTTG
91596 IS [CA]
91622 I
A CCCTAAGTTGTGGCTTGGTGGGTTTGGCAA
91622 P C
A ATGACGTGGCAGACCTGAGCCTCAAGACACTY
91622 P T
A CGCGCCGAGGTTGACCCTCAAGACACTY
91622 T C
A AGTGAGTGTCTTGAGGCTCAGTGCCAAACCCACCAAGCCACAACTTAGGGCT
91622 T T
A AGTGAGTGTCTTGAGGCTCAATGCCAAACCCACCAAGCCACAACTTAGGGCT
CATTTTCATTCCTACTGCCCCAACCTAGTAGCCCTAAGTTGTGGCTTGGGTTTGGCAC[CT]TGAGCCTCAAGACACTCACTACATTCTTTCTGGATGTTTGCTCACAGG
CTCCCTGAGCAG
91622 IS [CT]
91628 I
A CAGGAGCCACAAAGAGCCAAGCAGCAAAGT
91628 P G
A ATGACGTGGCAGACGGCAGAGAATAGATCTAGATAGAY
91628 P A
A CGCGCCGAGGAGCAGAGAATAGATCTAGATAGAY
91628 T G
A CATCATCTATCTAGATCTATTCTCTGCCCTTTGCTGCTTGGCTCTTTGTGGCTCCTGTT
91628 T A
A CATCATCTATCTAGATCTATTCTCTGCTCTTTGCTGCTTGGCTCTTTGTGGCTCCTGTT
AGGGCATTCGCTCTTCATGAGCAATAGAAAACAGGAGCCACAAAGAGCCAAGCAGCAAAG[GA]GCAGAGAATAGATCTAGATAGATGATGAAGAATAACCAGTATACA
CTCTCTGTCCTCTTA
91628 IS [GA]
91632 I
S GGGCAGGGATCCCCCATCGCCA
91632 P G
S ATGACGTGGCAGACCTGCTCCCAGGAAGCY
91632 P A
S CGCGCCGAGGTTGCTCCCAGGAAGCY
91632 T G
S CAGAGCTTCCTGGGAGCAGGGCGATGCGGGATCCCTGCCCTC
91632 T A
S CAGAGCTTCCTGGGAGCAGGGCGATGCGGGATCCCTGCCCTC
GGGAAGAAGGAAATGGTCAGGGGCTCTGCTGGGAGAGGAACCCAGAGCTTCCTGGGAGCA[GA]GGGCGATGCGGGATCCCTGCCCTCTCTACGCCCCCACCTGGCCTGTCC
CACTTTTCCTACC
91632 IS [GA]
91650 I
A GCAGGGCCTTGCAGGACCGCTGC
91650 P G
A ATGACGTGGCAGACGGGAGGATGTTGTTAACGY
91650 P T
A CGCGCCGAGGTGGAGGATGTTGTTAACGY
91650 T G
A TTTACGTTAACAACATCCTCCCCAGCGGTCCTGCAAGCCCTGCGC
91650 T T
A TTTACGTTAACAACATCCTCCCAGAGCGGTCCTGCAAGCCCTGCGC
CGACAGTGGGTGGGTGCCTGACTGCCTGACGCCCGCGCAGGGCCTTGCAGGACGCTG[GT]GGAGGATGTTGTTAACGTAAAGAGCCAGGCTGATGAGGAAGGTTCA
TGAGTCCTTTGGGT
91650 IS [GT]
91654 I
S CAAGGTCATCTGCTTCTGTGACCACGGGACT
91654 P C
S ATGACGTGGCAGACGGTGCTGGCTGAGGY
91654 P T
S CGGCCCGAGGAGTGCTGGCTGAGGY
91654 T C
S CCATCCTCAGCCAGCACCGTCCCCTGGTCACAGAAGCAGATGACCTTGTG
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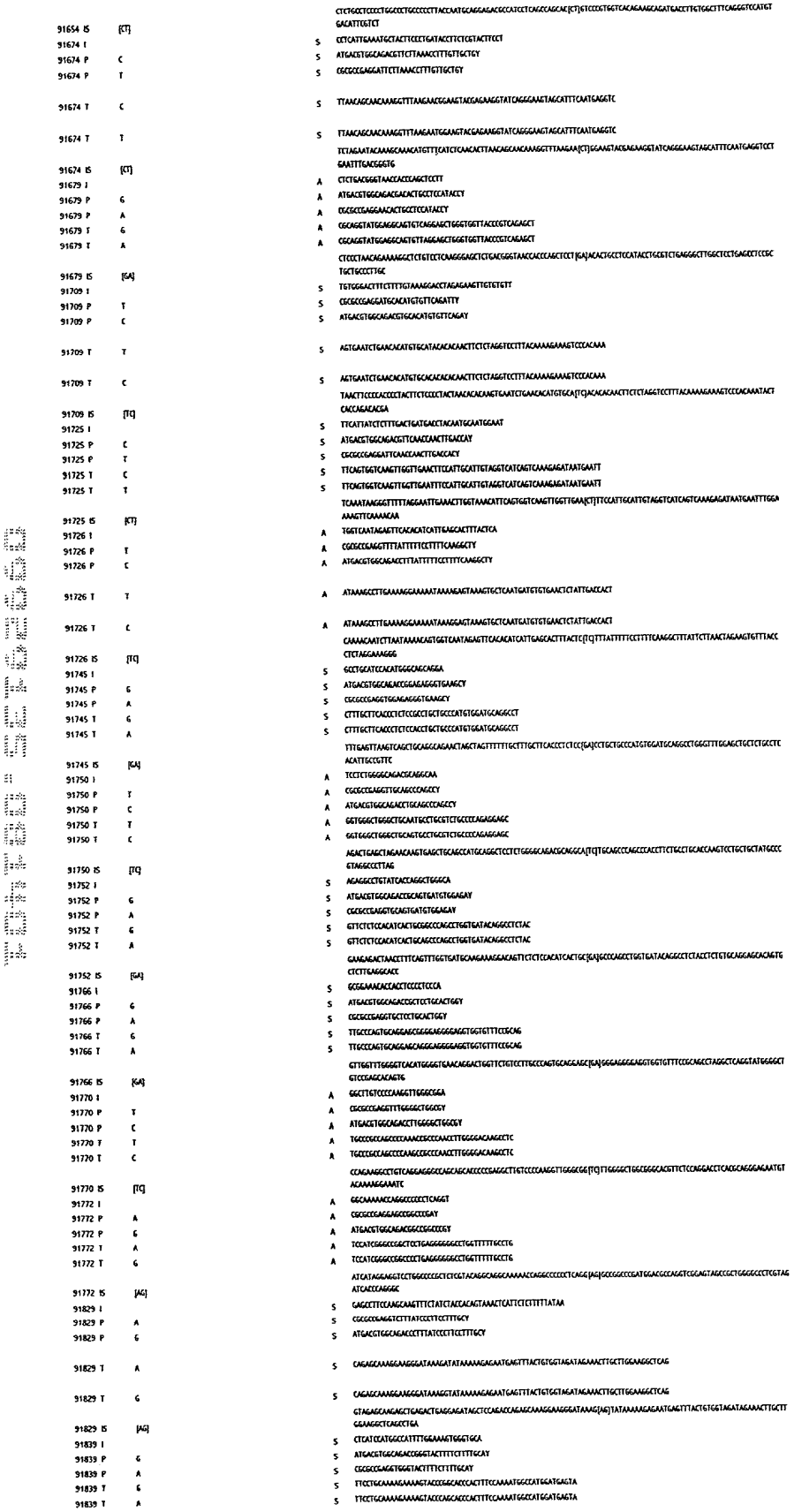

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91674 P C
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91674 T C
91674 T T
91674 IS [CT]
91679 I
91679 P G
91679 P A
91679 T G
91679 T A
91679 IS [GA]
91709 I
91709 P T
91709 P C
91709 T T
91709 T C
91709 IS [TC]
91725 I
91725 P C
91725 P T
91725 T C
91725 T T
91725 IS [CT]
91726 I
91726 P T
91726 P C
91726 T T
91726 T C
91726 IS [TC]
91745 I
91745 P G
91745 P A
91745 T G
91745 T A
91745 IS [GA]
91750 I
91750 P T
91750 P C
91750 T T
91750 T C
91750 IS [TC]
91752 I
91752 P G
91752 P A
91752 T G
91752 T A
91752 IS [GA]
91766 I
91766 P G
91766 P A
91766 T G
91766 T A
91766 IS [GA]
91770 I
91770 P T
91770 P C
91770 T T
91770 T C
91770 IS [TC]
91772 I
91772 P A
91772 P G
91772 T A
91772 T G
91772 IS [AG]
91829 I
91829 P A
91829 P G
91829 T A
91829 T G
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91839 I
91839 P G
91839 P A
91839 T G
91839 T A

FIGURE 129C

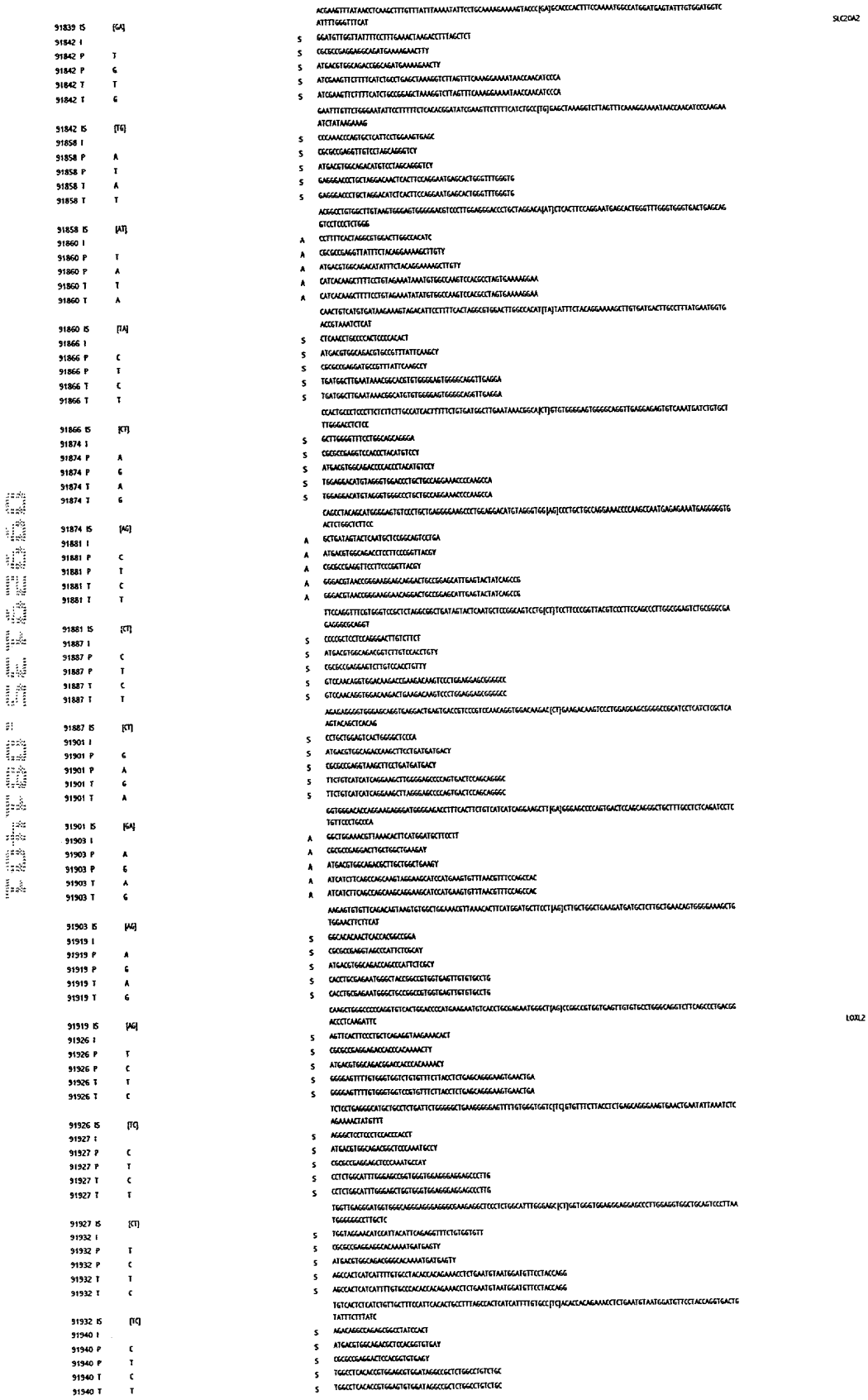


FIGURE 129C

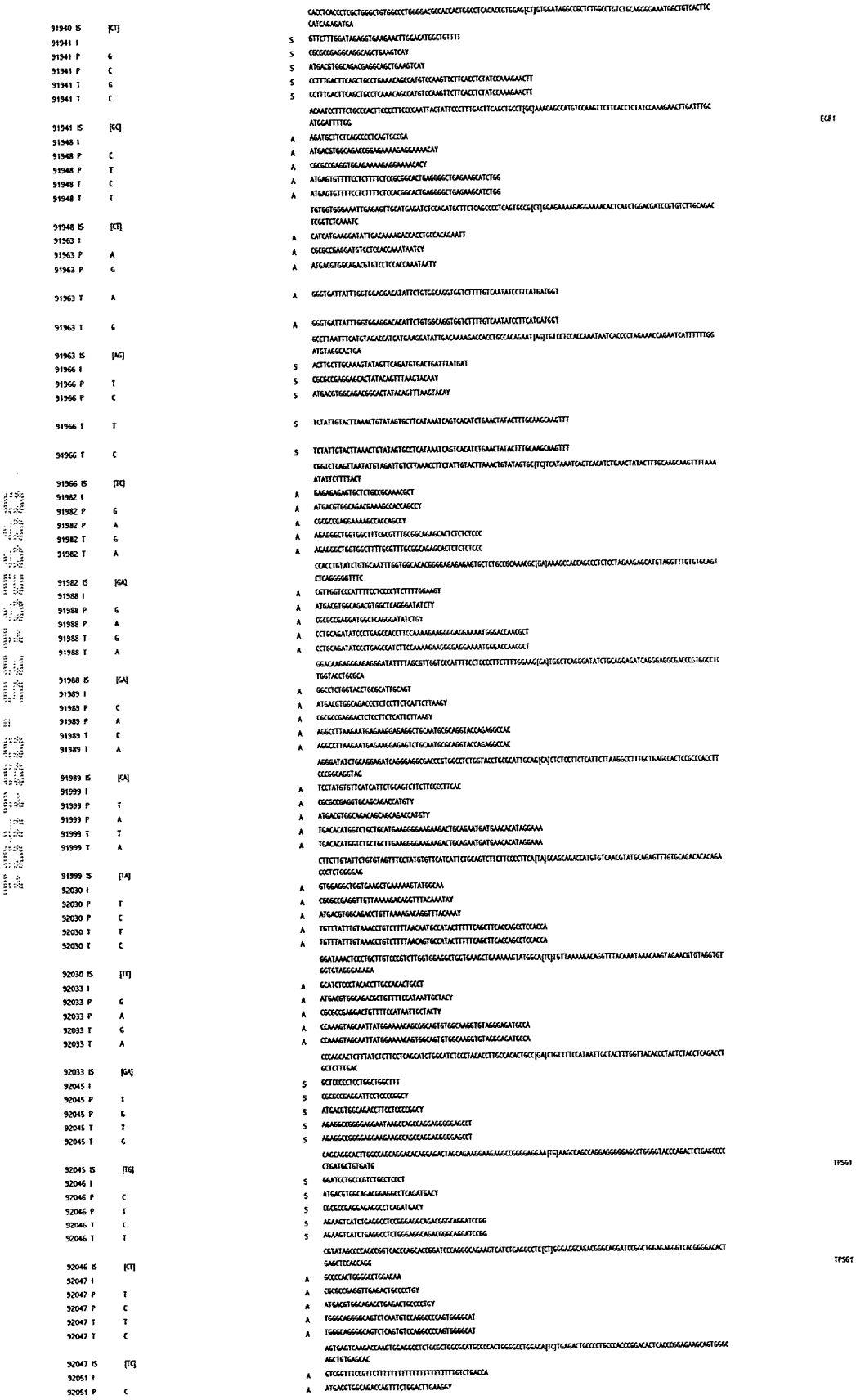


FIGURE 129C

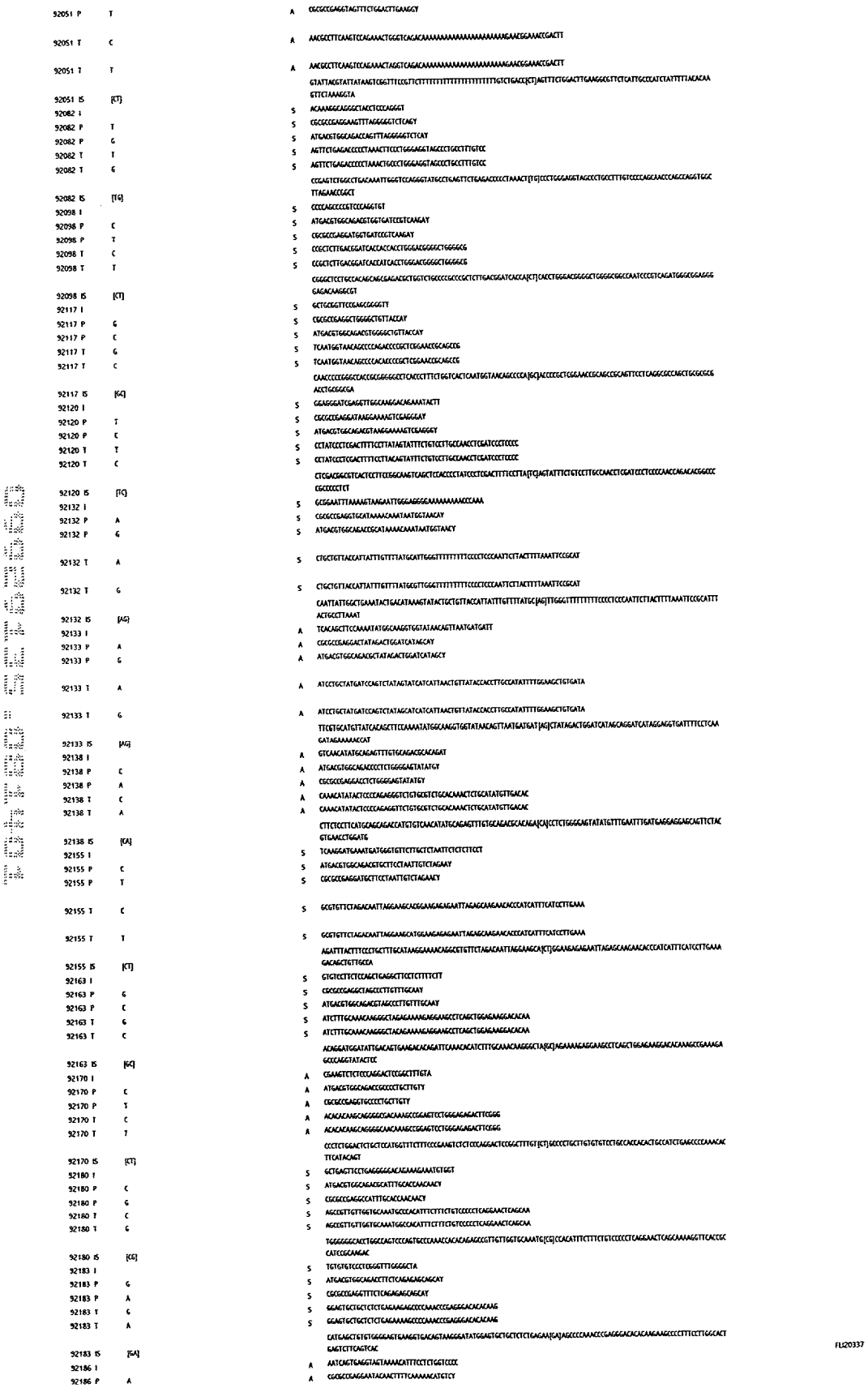
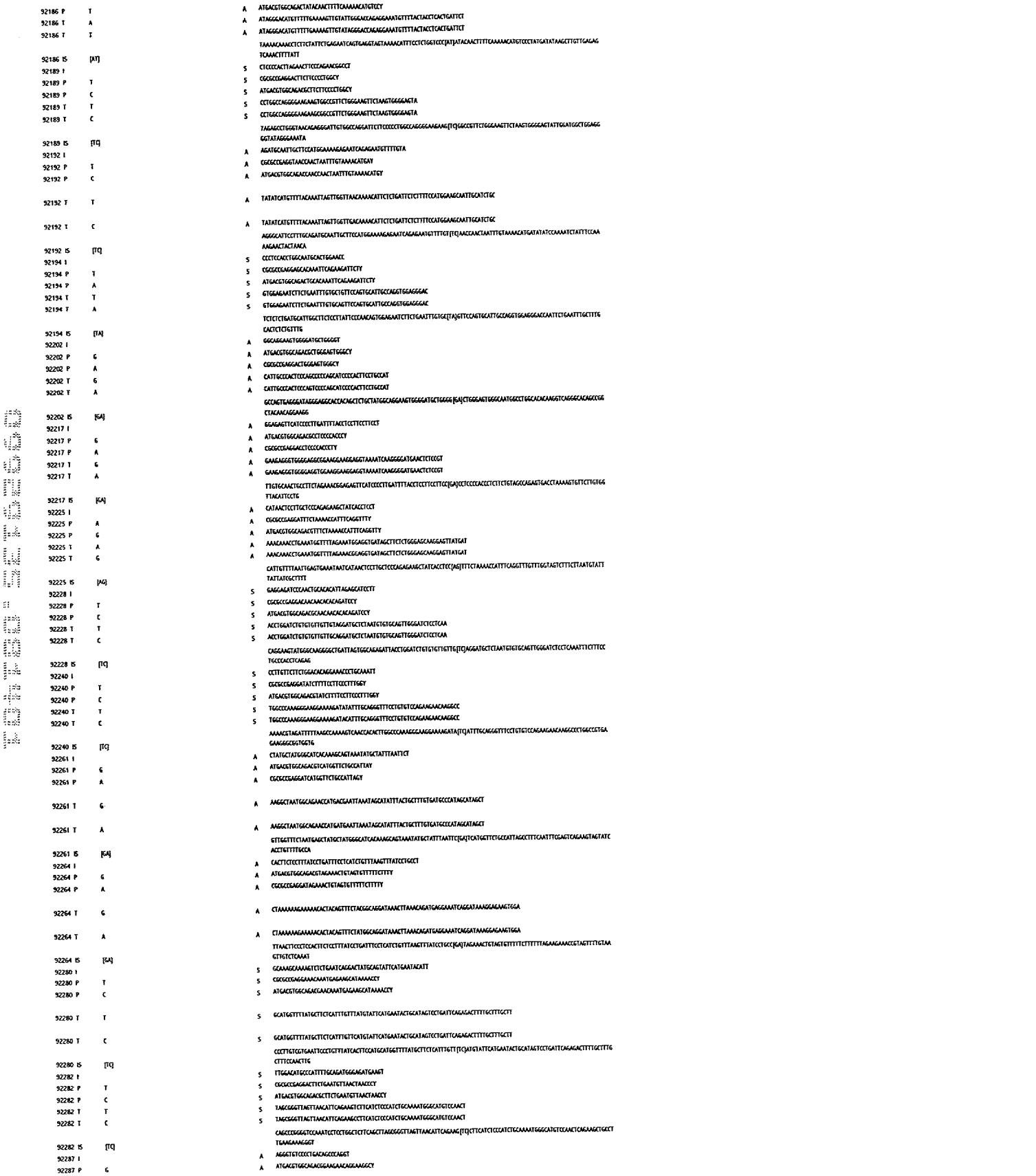


FIGURE 129C



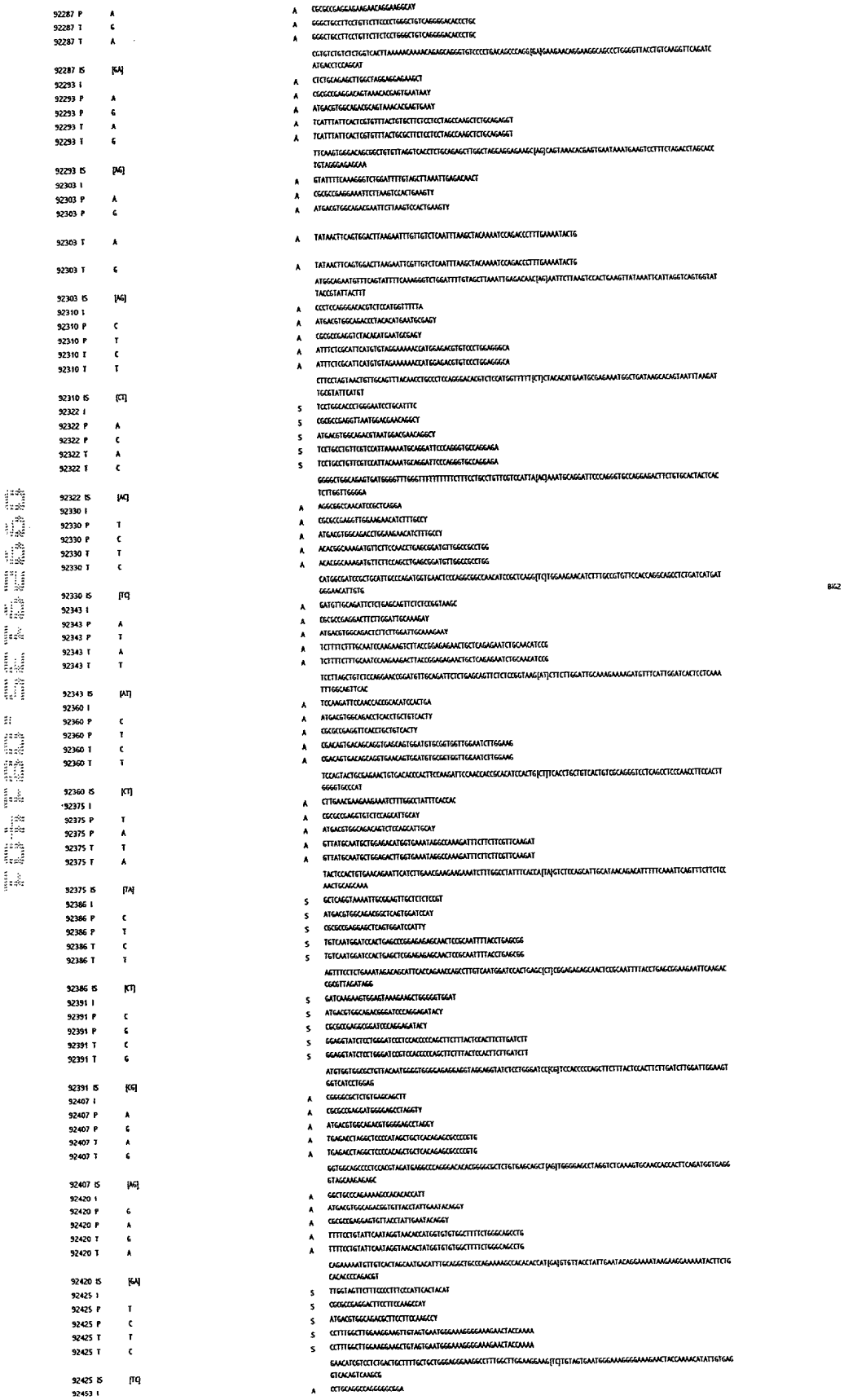


FIGURE 129C

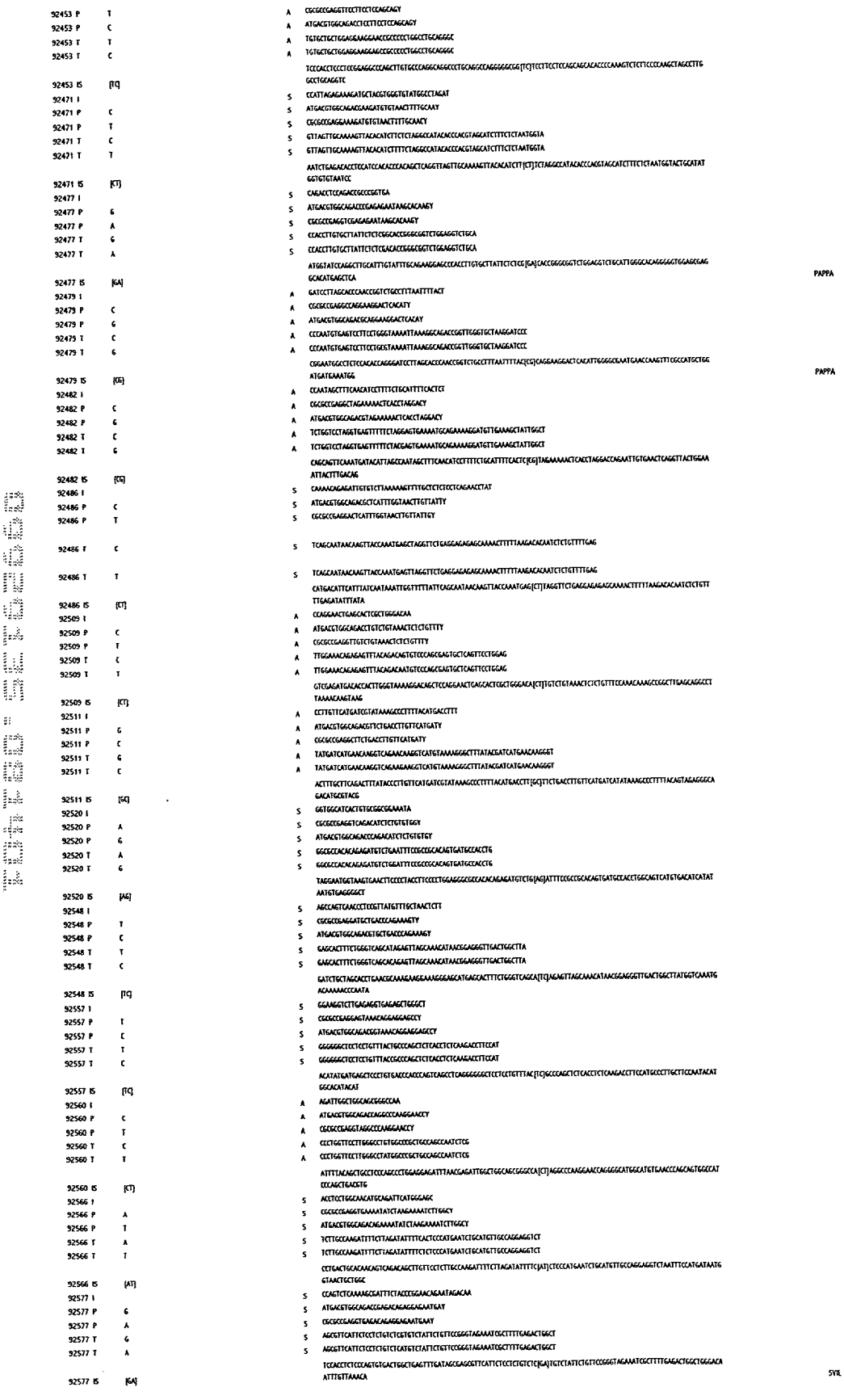
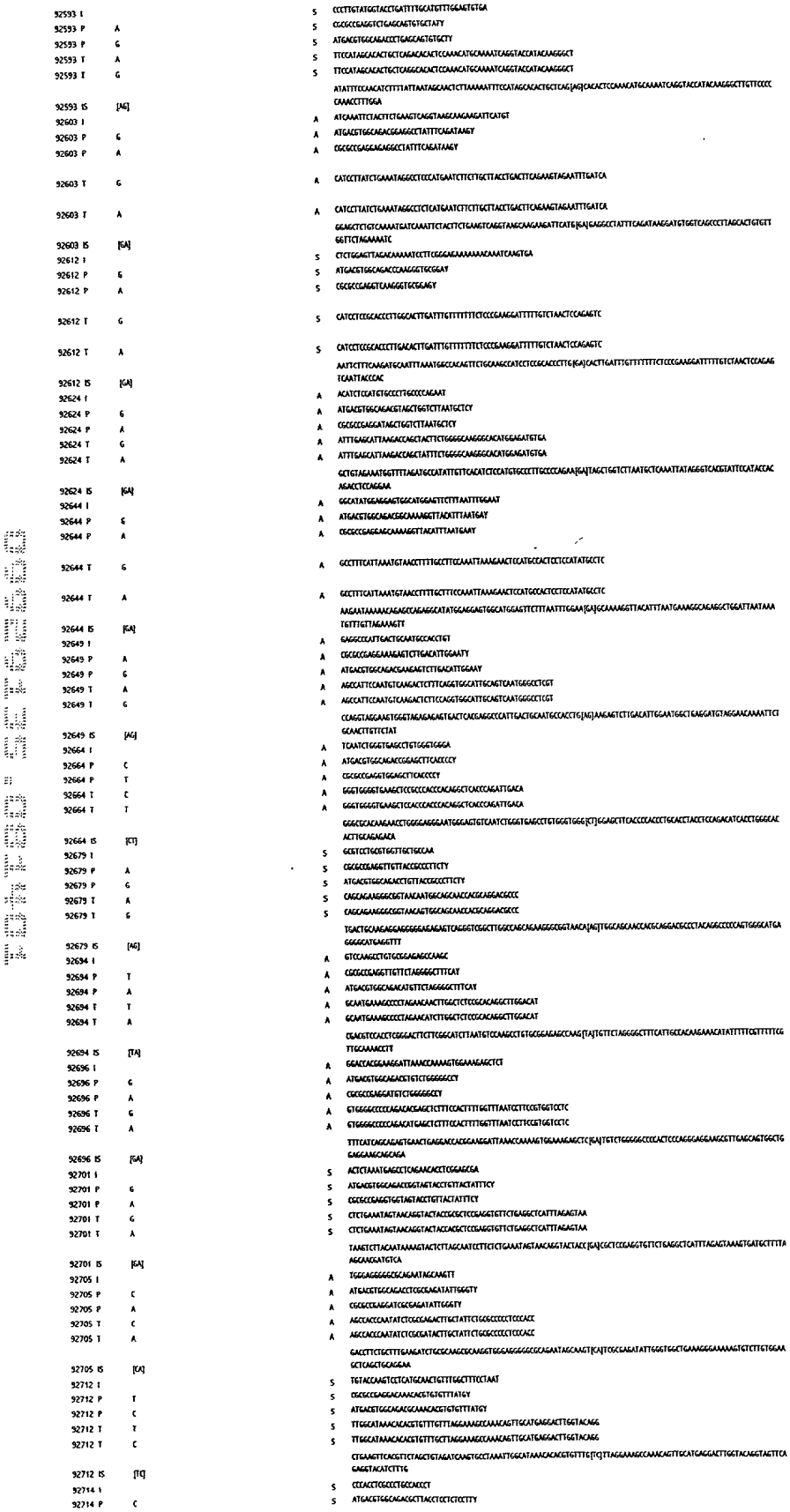
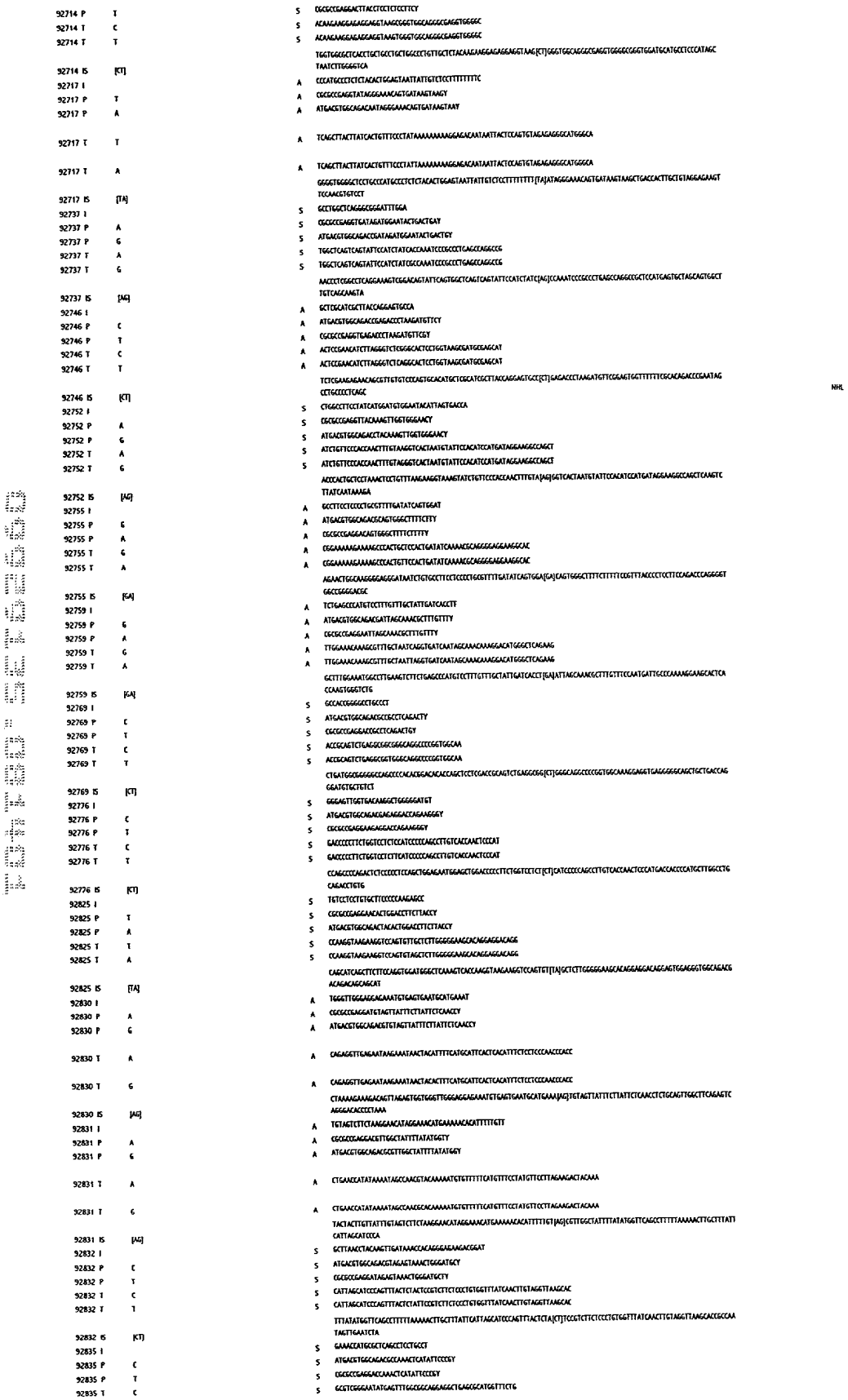


FIGURE 129C




92714 P T
92714 T C
92714 T T
92714 IS [CT]
92717 I
92717 P T
92717 P A
92717 T T
92717 T A
92717 IS [TA]
92737 I
92737 P A
92737 P G
92737 T A
92737 T G
92737 IS [AG]
92746 I
92746 P C
92746 P T
92746 T C
92746 T T
92746 IS [CT]
92752 I
92752 P A
92752 P G
92752 T A
92752 T G
92752 IS [AG]
92755 I
92755 P G
92755 P A
92755 T G
92755 T A
92755 IS [GA]
92759 I
92759 P G
92759 P A
92759 T G
92759 T A
92759 IS [GA]
92769 I
92769 P C
92769 P T
92769 T C
92769 T T
92769 IS [CT]
92776 I
92776 P C
92776 P T
92776 T C
92776 T T
92776 IS [CT]
92825 I
92825 P T
92825 P A
92825 T T
92825 T A
92825 IS [TA]
92830 I
92830 P A
92830 P G
92830 T A
92830 T G
92830 IS [AG]
92831 I
92831 P A
92831 P G
92831 T A
92831 T G
92831 IS [AG]
92832 I
92832 P C
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92835 P C
92835 P T
92835 T C

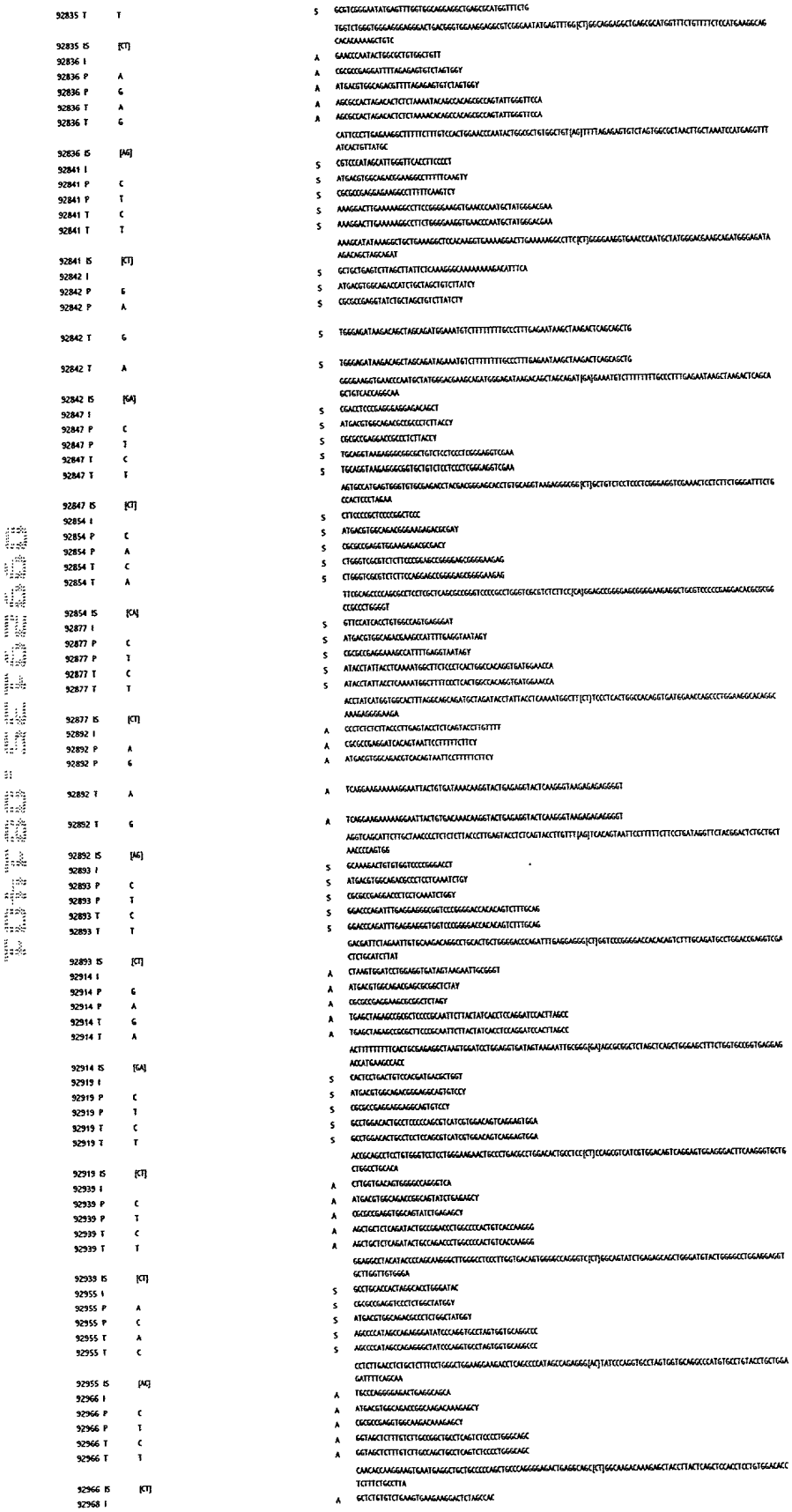


FIGURE 129C

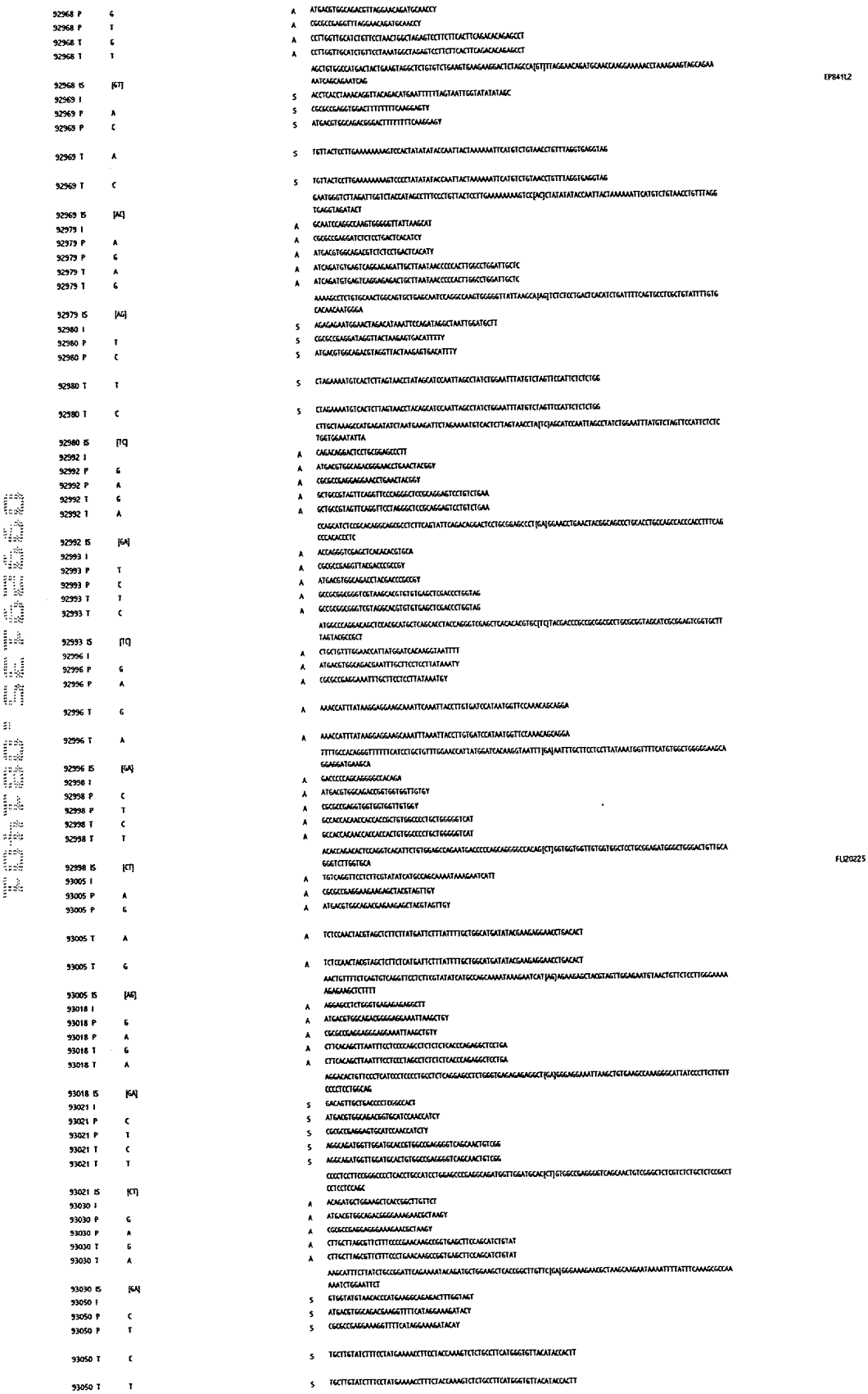

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92968 P T A CGGCCCAAGGTTTAGGAACAGATGCAACCY
92968 T G A CCTTGGTTGCATCTGTTCCTAACTGGCTAGAGTCCTTCTTCACTTCAGACACAGAGCCT
92968 T T A CCTTGGTTGCATCTGTTCCTAAATGGCTAGAGTCCTTCTTCACTTCAGACACAGAGCCT
AGCTGTGGCCATGACTACTGAAGTAGGCTCTGTGTCTGAAGTGAAGAAGGACTCTAGCCA[GT]TTAGGAACAGATGCAACCAAGGAAAACCTAAAGAAGTAGCAGAA
92968 IS [GT] AATCAGCAGAATCAG EPB41L2
92969 I S ACCTCACCTAAACAGGTTACAGACATGAATTTTTTAGTAATTGGTATATATAGC
92969 P A S CGCGCCGAGGTGGACTTTTTTTTCAAGGAGTY
92969 P C S ATGACGTGGCAGACGGGACTTTTTTTTCAAGGAGY
92969 T A S TGTTACTCCTTGAAAAAAAAGTCCACTATATATACCAATTACTAAAAATTCATGTCTGTAACCTGTTTAGGTGAGGTAG
92969 T C S TGTTACTCCTTGAAAAAAAAGTCCCCTATATATACCAATTACTAAAAATTCATGTCTGTAACCTGTTTAGGTGAGGTAG
92969 IS [AC] GAATGGGTCTTAGATTGGCTCTACCATAGCCTTTCCCTGTTACTCCTTGAAAAAAAAGTCC[AC]CTATATATACCAATTACTAAAAAATTCATGTCTGTAACCTGTTTAGG TCAGGTAGATACT
92979 I A GCAATCCAGGCCAAGTGGGGGTTATTAAGCAT
92979 P A A CGGGCCGAGGATCTCTCCCTGACTCACATCY
92979 P G A ATGACGTGGGCAGAGTCTCTCCTGACTCACATY
92979 T A A ATCAGATGTGAGTCAGGAGAGAGTTGCTTAATAACCCCCACTTGGCCTGGATTGCTC
92979 T G A ATCAGATGTGAGTCAGGAGAGAGCTGCTTAATAACCCCCACTTGGCCTGGATTGCTC
92979 IS [AG] AAAAGCCTCTGTGCAACTGGCAGTGCTGAGCAATCCAGGCCAAGTGGGGGTTATTAAGCA[AG]TCTCTCCTGACTCACATCTGATTTTCAGTGCCTGCTGTATTTTGTG CACAACAATGGGA
92980 I S ACAGAGAATGGAACTAGACATAAATTCCAGATAGGCTAATTGGATGCTT
92980 P T S CGCGCCGAGGATAGGTTACTAAGAGTGACATTTY
92980 P C S ATGACGTGGCAGACGTAGGTTACTAAGAGTGACATTTY
92980 T T S CTAGAAAATGTCACTCTTAGTAACCTATAGCATCCAATTAGCCTATCTGGAATTTATGTCTAGTTCCATTCTCTCTGG
92980 T C S CTAGAAAATGTCACTCTTAGTAACCTACAGCATCCAATTAGCCTATCTGGAATTTATGTCTAGTTCCATTCTCTCTGG
92980 IS [TC] CTTGCTAAAGCCATGACATATCTAATGAAGATTCTAGAAAATGTCACTCTTAGTAACCTA[TC]AGCATCCAATTAGCCTATCTGGAATTTATGTCTAGTTCCATTCTCTC TGGTGGAATATTA
92982 I A CAGACAGGACTCCTGCGGAGCCCTT
92982 P G A ATGACGTGGCAGACGGGAACCTGAACTACGGY
92982 P A A CGCGCCGAGGAGGAAACCTGAACTACGGY
92982 T G A GCTGCCGTAGTTCAGGTTCCCAGGGCTCCGCAGGAGTCCTGTCTCTGAA
92982 T A A GCTGCCGTAGTTCAGGTTCCTAGGGCTCCGCAGGAGTCCTGTCTCTGAA
92982 IS [GA] CCAGCATCTCCGCACAGGCAGGCGCCTCTTCAGTATTCAGACAGGACTCCTGCGGAGCCT[GA]GGAACCTGAACTACGGCAGCCCTGCACCTGCCAGCCACCCACCTTTCAG CCCACACCCTC
92993 I A ACCAGGGTCGAGCTCACACACGTGCA
92993 P T A CGCGCCGAGGTTAGGACCCGCCGY
92993 P C A ATGACGTGGCAGACCTACGACCCGCCGY
92993 T T A GCCGCGGCGCGGGTCGTAAGCAGCACGTGTGTGAGCTCGAACCCTGGTAG
92993 T C A GCCGCGGCGCGGGTCGTAGGCAGCAGTGTGTGAGCTCGAACCCTGGTAG
92993 IS [TC] ATGGCCCAGGACAGCTCCACGCATGCTCAGCAGCCTACCAGGGCTCGAGCTCACACACGTGC[TC]CTACGACCCGCCGCGGCGGCCTGCGCGGTAGCATCGCGGAGTCGGTGCTT TAGTAGCCGCT
92996 I A CTGCTGTTTGGAACCATTATGGATCACAAGGTAATTTT
92996 P G A ATGACGTGGCAGACGAATTTGCTTCCTCCTTATAAATY
92996 P A A CGCGCCGAGCAAATTTGCTTCCTCCTTATAAATGY
92996 T G A AAACCATTTATAAGGAGGAAGCAAATTCAAATTACCTTGTGATCCATAATGGTTCCAAACAGCAGGA
92996 T A A AAACCATTTATAAGGAGGAAGCAAATTTAAATTACCTTGTGATCCATAATGGTTCCAAACAGCAGGA
92996 IS [GA] TTTTGCCACAGGGTTTTTTCATCCTGCTGTTTGGAACCATTATGGATCACAAGGTAATTT[GA]AATTTGCTTCCTCCTTATAAATGGTTTTCATGTGGCTGGGGGAAGCA GGAGGATGAAGCA
92998 I A GACCCCCAGCAGGGGCCACAGA
92998 P C A ATGACGTGGCAGACCGGTGGTGGTTGTGY
92998 P T A CGCGCCGAGGTGGTGGTGGTTGTGGY
92998 T C A GCCACCACAACCACCACCGCTGTGGCCCCTGCTGGGGGTCAT
92998 T T A GCCACCACAACCACCACCACTGTGGCCCCTGCTGGGGGTCAT
92998 IS [CT] ACACCAGCACTCCAGGTCACATTCTGTGGAGCCAGAATGACCCCCAGCAGGGGCCACAG[CT]GGTGGTGGTTGTGATGGCTCCTGCGGAGATGGGGCTGGGACTGTTGCA GGGTCTTGGTGCA FLI20225
93005 I A TGTCAGGTTCCTCTTCGTATATCATGCCAGCAAAATAAAGAATCATT
93005 P A A CGCGCCGAGGAAGAAGAGCTACGTAGTTGY
93005 P G A ATGACGTGGCAGACGAAGAAGAGCTACGTAGTTGY
93005 T A A TCTCCAACTACGTAGCTCTTCTTATGATTCTTTATTTTGCTGGCATGATATACGAAGAGGAAACCTGACACT
93005 T G A TCTCCAACTACGTAGCTCTTCTCATGATTCTTTATTTTGCTGGCATGATATACGAAGAGGAAACCTGACACT
93005 IS [AG] AACTGTTTCTCAGTGTCAGGTTCCTCTTCGTATATCATGCCAGCAAAATAAAGAATCAT[AG]AGAAGAGCTACGTAGTTGGAGAATGTAACTGTTCTCCTTGGGAAAA AGAGAAGCTCTTTT
93018 I A AGGAGCCTCTGGGTGAGAGAGAGCTT
93018 P G A ATGACGTGGCAGACGGGAGGAAATTAAGCTGY
93018 P A A CGCGCCGAGGAGGGAGGAAATTAAGCTGTY
93018 T G A CTTCACAGCTTAATTTCCTCCCCAGCCTCTCTCTCACCCAGAGGCTCCTGA
93018 T A A CTTCACAGCTTAATTTCCTCCCTAGCCTCTCTCTCACCCAGAGGCTCCTGA
93018 IS [GA] AGGACACTGTTCCCTCATCCCTCCCCTGCCTCTCAGGAGCCTCTGGGTGAGAGAGAGGCT[GA]GGGAGGAAATTAAGCTGTGAAGCCAAAGGGCATTATCCCTTCTTGTT CCCCTCCTGGCAG
93021 I S GACAGTTGCTGACCCCCTCGGGCCACT
93021 P C S ATGACGTGGCAGACGGTGCATCCAACCATCY
93021 P T S CGCGCCGAGGAGTGCATCCAACCATCTY
93021 T C S AGGCAGATGGTTGGATGCACCGTGGCCGAGGGGTCAGCAACTGTCGG
93021 T T S AGGCAGATGGTTGGATGCACTGTGGCCGAGGGGTCAGCAACTGTCGG
93021 IS [CT] CCCCTCCTTCCCGGGCCCCTCACCTGCCATCCTGGAGCCCCAGGCAGATGGTTGGATGCAC[CT]GTGGCCGAGGGGTCAGCAACTGTCGGGCTCTCGTCTCTGCTCTCCGCCT CCTCCTCCAGC
93030 I A ACAGATGCTGGAAGCTCACCGGCTTGTTCT
93030 P G A ATGACGTGGCAGACGGGGAAAGAACGCTAAGY
93030 P A A CGCGCCGAGGAGGGAAAGAACGCTAAGY
93030 T G A CTTGCTTAGCGTTCTTTCCCCGAACAAGCGGGTGAGCTTCCAGCATCTGTAT
93030 T A A CTTGCTTAGCGTTCTTTCCCTGAACAAGCGGGTGAGCTTCCAGCATCTGTAT
93030 IS [GA] AAGCATTTCTTATCTGCCGGATTCAGAAAATACAGATGCTGGAAGCTCACCGGCTTGTTC[GA]GGGAAAGAAAGCTAAGCAAGAATAAAATTTTATTTCAAAGGCCCAA AAATCTGGAATTCT
93050 I S GTGGTATGTAACACCCATGAAGGCAGAGACTTTGGTAGT
93050 P C S ATGACGTGGCAGACGAAGGTTTTCATAGGAAAGATACY
93050 P T S CGCGCCGAGGAAAGGTTTTCATAGGAAAGATACAY
93050 T C S TGCTTGTATCTTTCCTATGAAAACCTTCCTACCAAAGTCTCTGCCTTCATGGGTGTTACATACCACTT
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FIGURE 129C

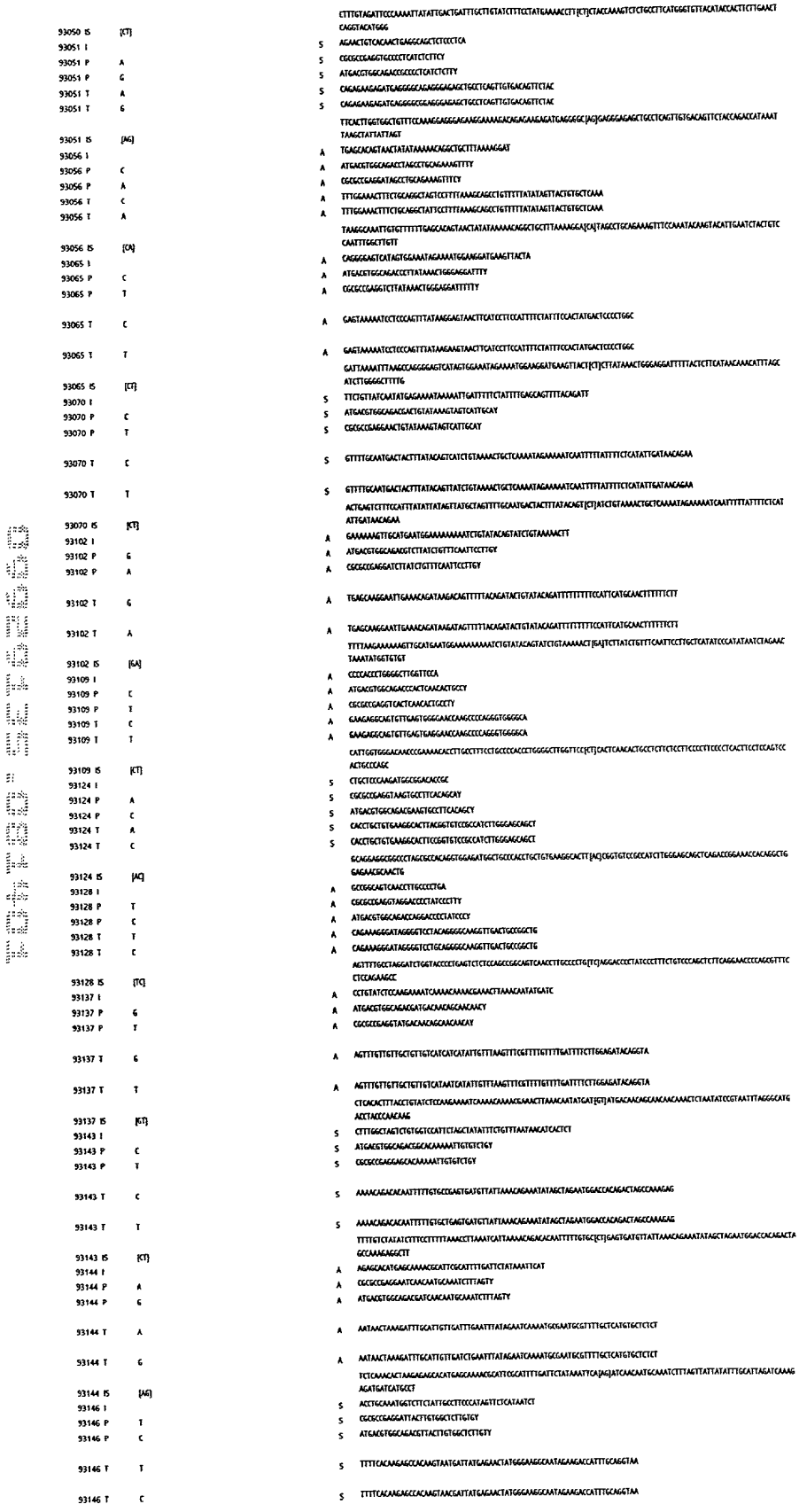
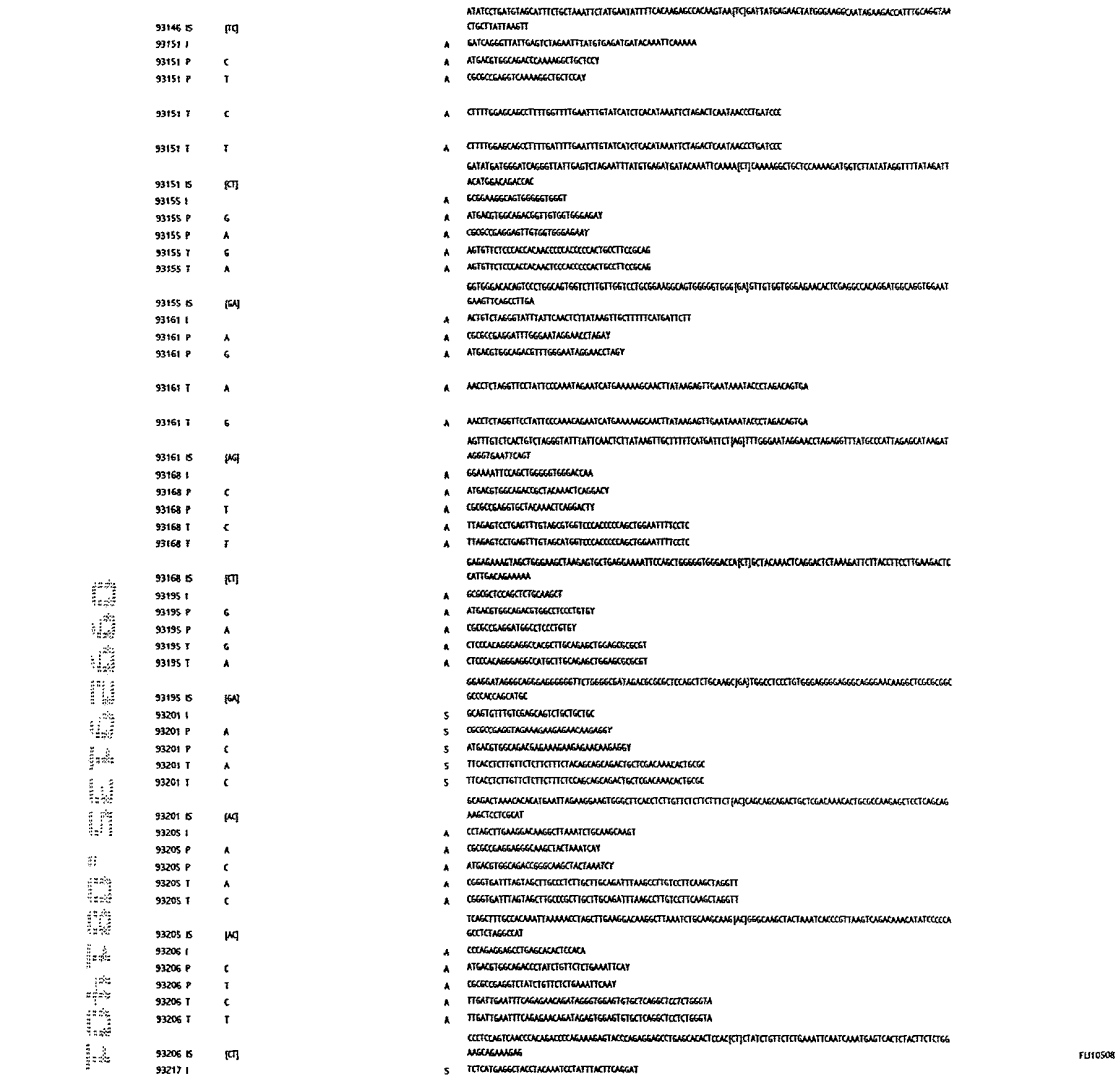


FIGURE 129C



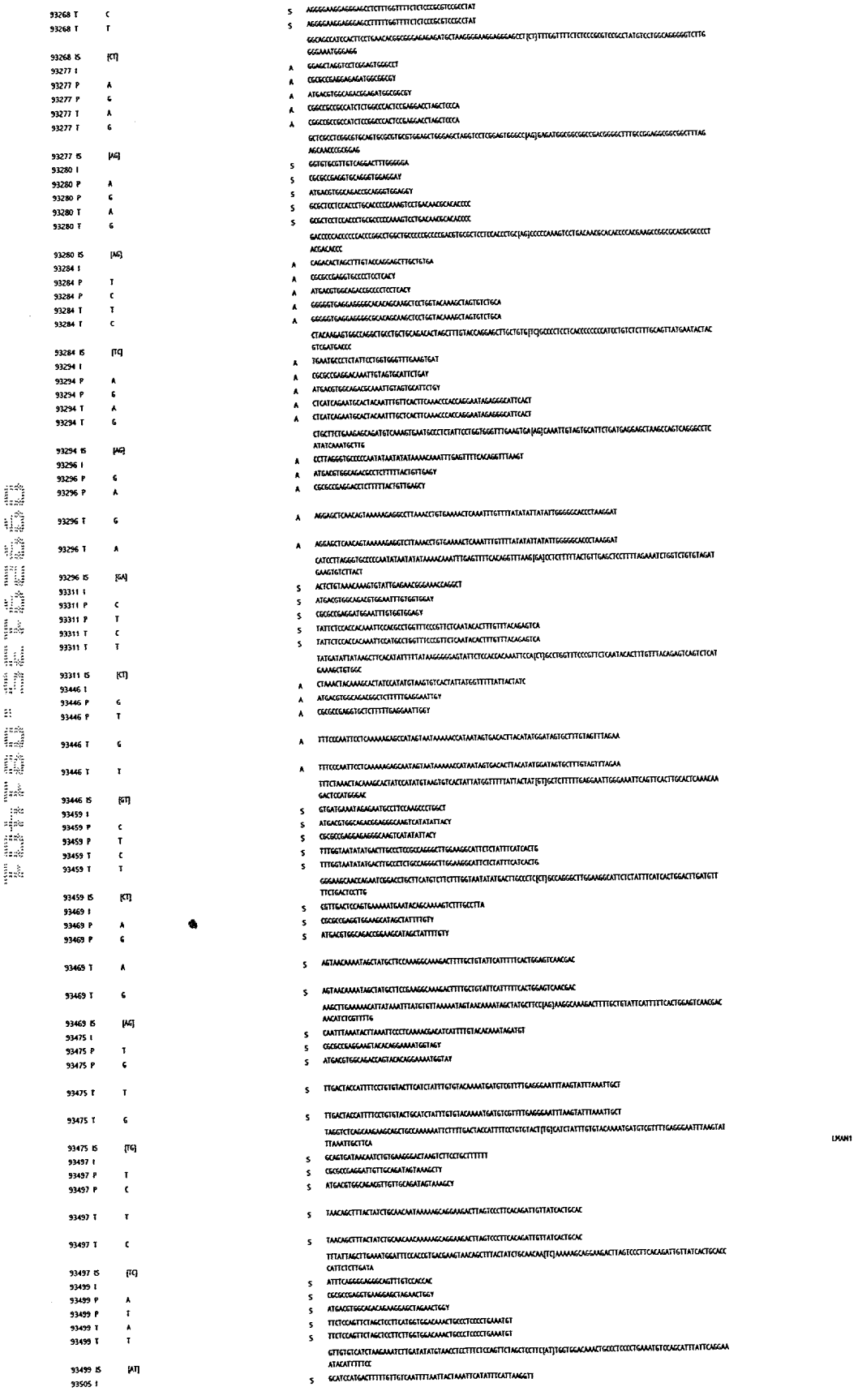
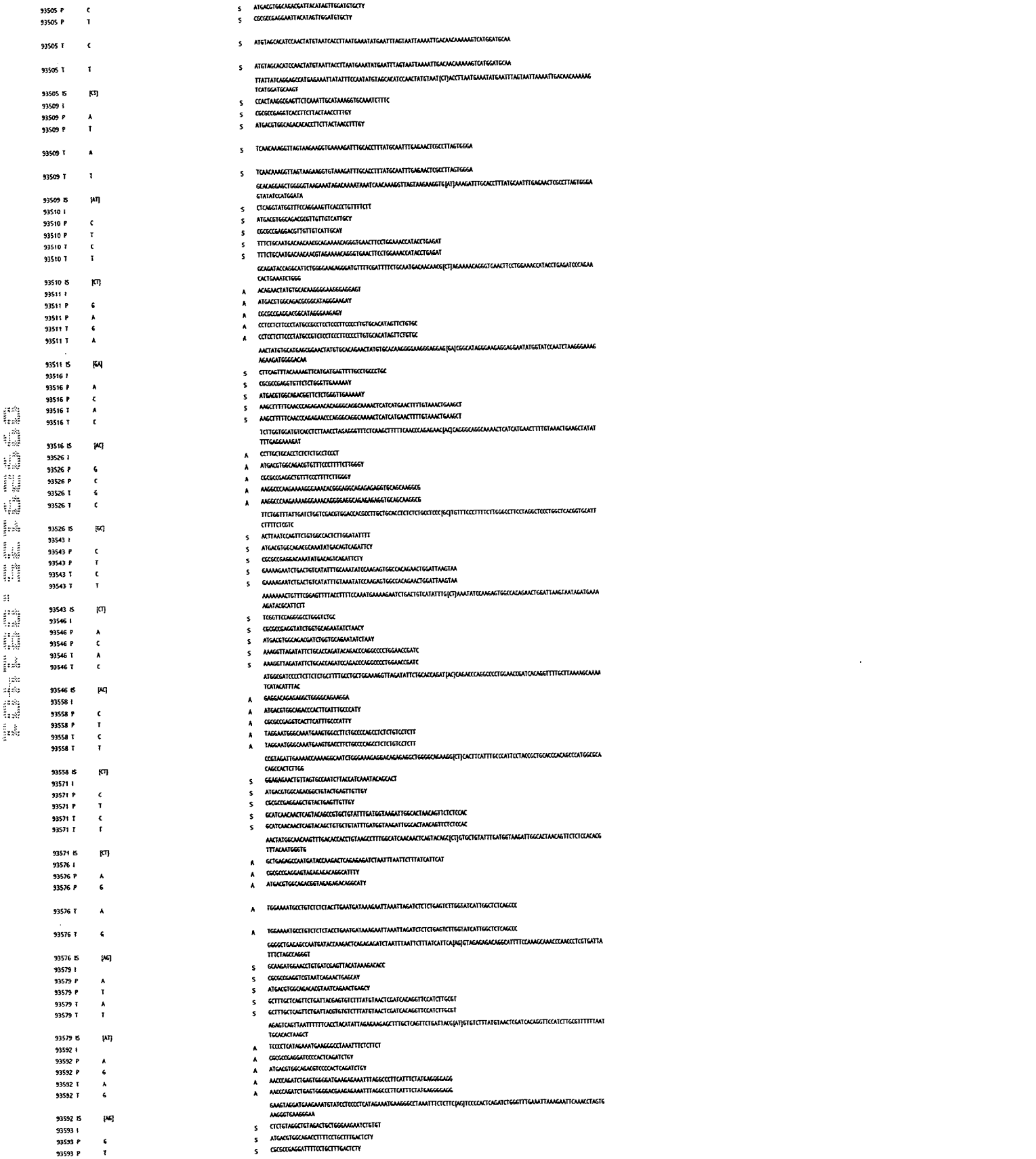
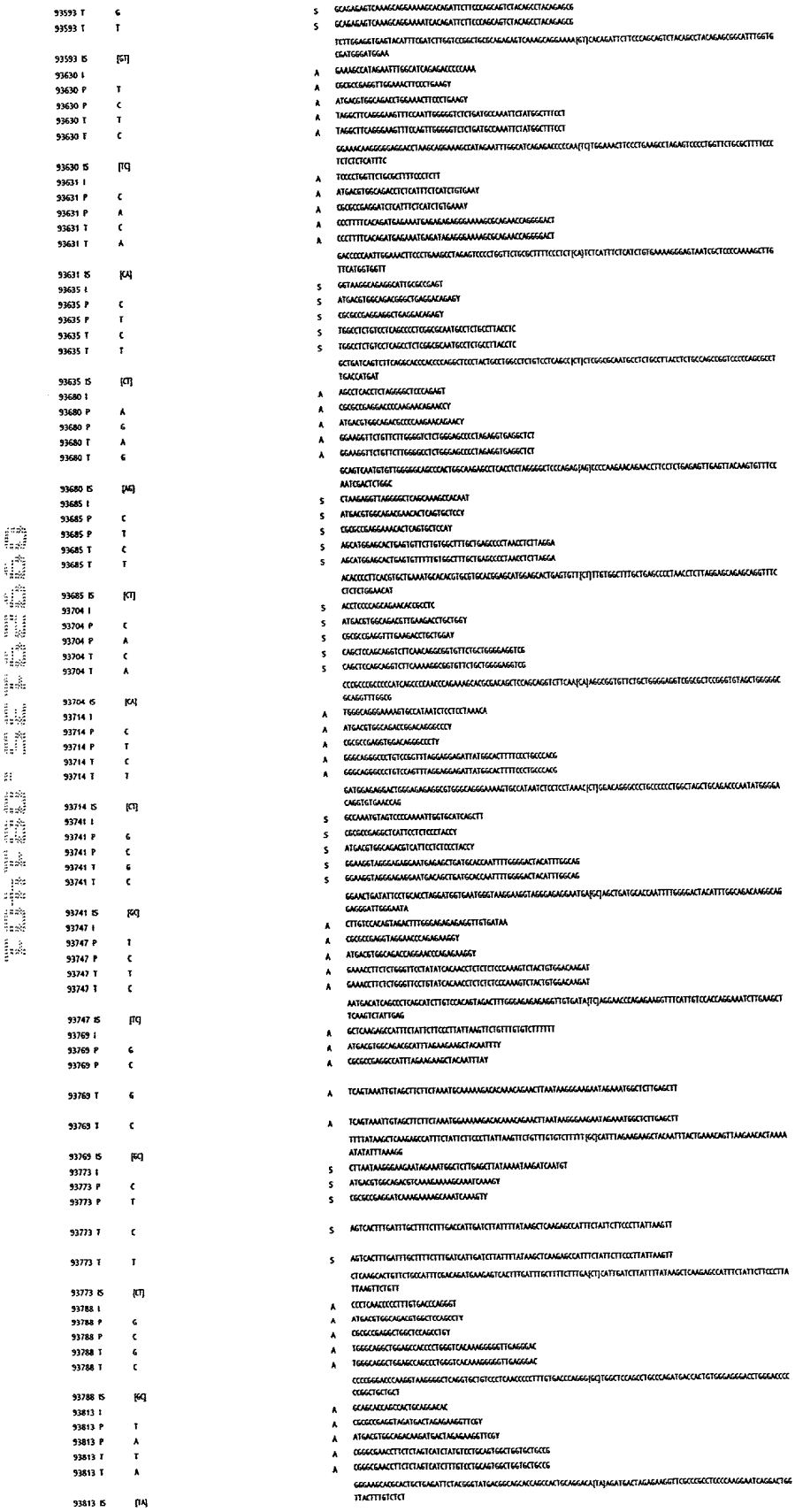


FIGURE 129C





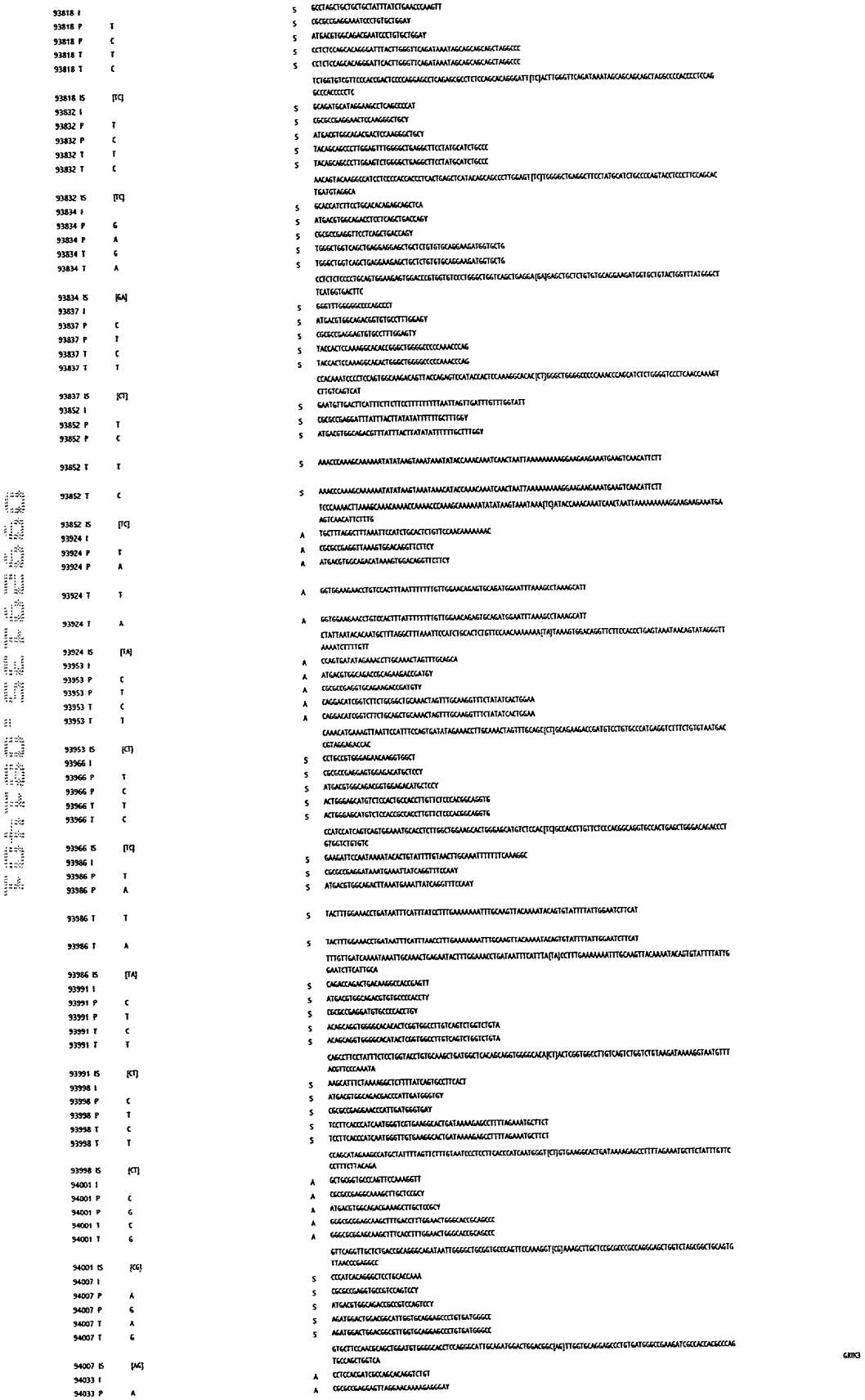


FIGURE 129C

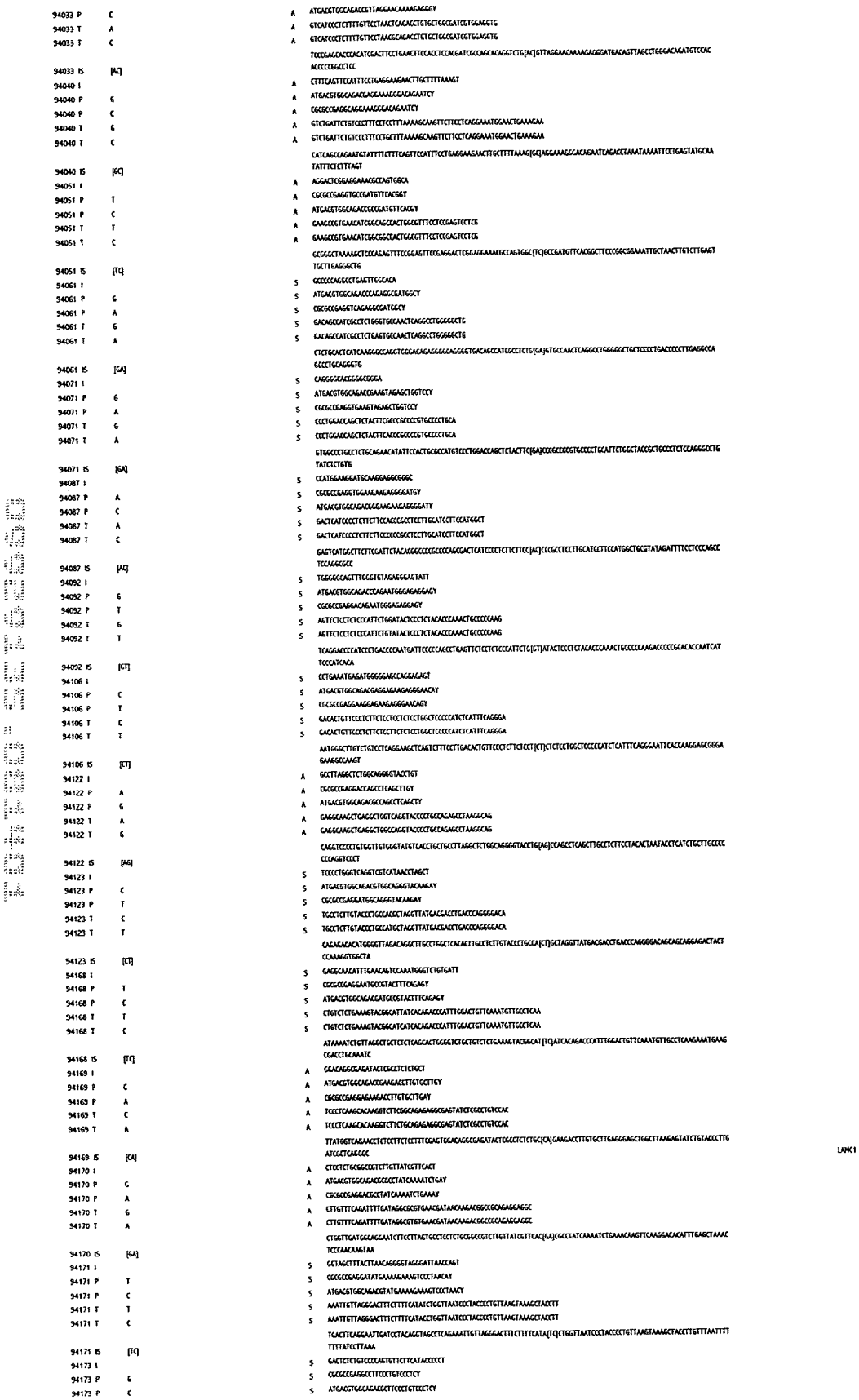

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94033 T C
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94040 P G
94040 P C
94040 T G
94040 T C
94040 IS [GC]
94051 I
94051 P T
94051 P C
94051 T T
94051 T C
94051 IS [TC]
94061 I
94061 P G
94061 P A
94061 T G
94061 T A
94061 IS [GA]
94071 I
94071 P G
94071 P A
94071 T G
94071 T A
94071 IS [GA]
94087 I
94087 P A
94087 P C
94087 T A
94087 T C
94087 IS [AC]
94092 I
94092 P G
94092 P T
94092 T G
94092 T T
94092 IS [GT]
94106 I
94106 P C
94106 P T
94106 T C
94106 T T
94106 IS [CT]
94122 I
94122 P A
94122 P G
94122 T A
94122 T G
94122 IS [AG]
94123 I
94123 P C
94123 P T
94123 T C
94123 T T
94123 IS [CT]
94168 I
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94168 P C
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94168 IS [TC]
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94171 P T
94171 P C
94171 T T
94171 T C
94171 IS [TC]
94173 I
94173 P G
94173 P C
A ATGACGTGGCAGACCGTTAGGAACAAAAGAGGGY
A GTCATCCCTCTTTGTTCCTAACTCAGACCTGTGCTGGCGATCGTGGAGGTG
A GTCATCCCTCTTTGTTCCTAACGCAGACCTGTGCTGGCGATCGTGGAGGTG
TCCGAGACCCACATCGACTTCCTGAACTTCCACCTCCAGCATCGCCAGCACAGGTCTG[AC]GTTAGGAACAAAAGAGGGATGACAGTTAGCCTGGGACAGATGTCCAC
ACCCCCGGCCTCC
A CTTTCAGTTCCATTTCCTGAGGAAGAACTTGCTTTTAAAGT
A ATGACGTGGCAGACAGCAAAGGCAGAATCY
A CGCGCCGAGCAGGAAAGGGACAGAATCY
A GTCTGATTCTGTCCCTTTCCTCTTAAAAGCAAGTTCTTCCTCAGGAAATGGAACTGAAAGAA
A GTCTGATTCTGTCCCTTTCCTGCTTTAAAAGCAAGTTCTTCCTCAGGAAATGGAACTGAAAGAA
CATCAGCAGAATGTATTTTCTTTCAGTTCCATTTCCTGAGGAAGAACTTGCTTTTAAAG[GC]AGGAAAGGGACAGAATCAGACCTAAATAAAATTCCTGAGTATGCAA
TATTTCTCTTTAGT
A ACGACTCGGAGGAAACGCCAGTGGCA
A CGCGCCGAGGTGCCGATGTTCACGGY
A ATGACGTGGCAGACCGCCGATGTTCACGY
A GAAGCCGTGAACATCGGCAGCCACTGGCGTTTCCTCCGAGTCCTCG
A GAAGCCGTGAACATCGGCGCCACTGGCGTTTCCTCCGAGTCCTCG
GCGGCCTAAAAGCTCCCAGAGTTTCCGGAGTTCCGAGGACTGGAGGAAAGCCAGTGGC[TC]GCCGATGTTCACGGCTTCCCGGCGGAAATTGCTAACTTGTCTTGAGT
TGCTTGAGGCCTG
S GCCCCCAGGCCTGAGTTGGCACA
S ATGACGTGGCAGACCCAGAGCGATGGCY
S CGCGCCGAGGTCAGAGGCGATGGCY
S GACAGCCATCGCCTCTGGGTGCCAACTCAGGCCTGGGGGCTG
S GACAGCCATCGCCTCTGAGTGCCAACTCAGGCCTGGGGGCTG
CTCTGCAGTCATCAAGGGCCAGCTGGCACAGAGGGGCAGGGGTGACAGCCATCGCCTCTG[GA]GTGCCAACTCAGGCCTGGGGGCTGCTCCCCTGACCCCCTTGAGGCCA
GCCCTGCAGGGTG
S CAGGGGCACGGGGCGGGA
S ATGACGTGGCAGACCGAAGTAGAGCTGGTCCY
S CGCGCCGAGGTCAAGTAGAGCTGGTCCY
S CCCTGGACCAGCTCTACTTCGCCCGCCCCGTGCCCCTGCA
S CCCTGGACCAGCTCTACTTCACCCGCCCCGTGCCCCTGCA
GTGGCCCTGCCTCTGCAGAACATATTCCACTGCGCCATGTCCCTGGACCAGCTCTACTTC[GA]GTGCCCCGTGCCCCTGCATTCTGGCTACCGCTGCCCTCTCCAGGGCCTG
TATCTCTGTG
S CCATGGAAGGATGCAAGGAGGCGGGC
S CGCGCCGAGGTGGAAGAAGAGGGGATGY
S ATGACGTGGCAGACGGAAGAAGAGGGGATY
S GACTCATCCCCTCTTCTTCCACCCGCCTCCTTGCATCCTTCCATGGCT
S GACTCATCCCCTCTTCTTCCCCCCGCCTCCTTGCATCCTTCCATGGCT
GAGTCATGGCTTCTTCGATTCTACACGGCCCCGCCCCAGGCACTCATCCCCTCTTCTTCC[AC]CCCGCCTCCTTGCATCCTTCCATGGCTGCGTATAGATTTTCCTCCCAGCC
TCCAGGCGCC
S TGGGGGCAGTTTGGGTGTAGAGGGAGTATT
S ATGACGTGGCAGACCCAGAATGGGAGAGGAGY
S CGCGCCGAGGACAGAATGGGAGAGGAGY
S AGTTCTCCTCTCCCATTCTGGATACTCCCTCTACACCCAAACTGCCCCCAAG
S AGTTCTCCTCTCCCATTCTGTATACTCCCTCTACACCCAAACTGCCCCCAAG
TCAGGACCCCATCCCTCACCCCAATGATTCCCCCAGCCTGAGTTCTCCCTCTCCCATTCTG[GT]ATACTCCCTCTACACCCAAACTGCCCCCAAGACCCCCGCACACCAATCAT
TCCCATCACA
S CCTGAAATGAGATGGGGGAGCCAGGAGAGT
S ATGACGTGGCAGACGAGGAGAAGAGGGAACAY
S CGCGCCGAGGAAGGAGAAGAGGGAACAGY
S GACACTGTTCCCTCTTCTCCTCCTCTCCTGGCTCCCCCATCTCATTTCAGGGA
S GACACTGTTCCCTCTTCTCCTCCTCTCCTGGCTCCCCCATCTCATTTCAGGGA
AATGGGCTTGTCTGTCCTCAGGAAGCTCAGTCTTTCCTTGACACTGTTCCCTCTTCTCCT[CT]CTCTCCTGGCTCCCCCATCTCATTTCAGGGAATTCACCAAGGAGCGGGA
GAAGGCCAAGT
A GCCTTAGGCTCTGGCAGGGGTACCTGT
A CGCGCCGAGGACCAGCCTCAGCTTGY
A ATGACGTGGCAGACGCCAGCCTCAGCTY
A GAGGCAAGCTGAGGCTGGTCAGGTACCCCTGCCAGAGCCTAAGGCAG
A GAGGCAAGCTGAGGCTGGCCAGGTACCCCTGCCAGAGCCTAAGGCAG
CAGGTCCCCTGTGGTTGTGGGTATGTCACCTGCTGCCTTAGGCTCTGGCAGGGGTACCTG[AG]CCAGCCTCAGCTTGCCTCTTCCTACACTAATACCTCATCTGCTTGCCCC
CCCAGGTCCCT
S TCCCCTGGGTCAGGTCGTCATAACCTAGCT
S ATGACGTGGCNGAGGTGGCAGGGTACAAGAY
S CGCGCCGAGGATGGCAGGGTACAAGAY
S TGCCTCTTGTACCCTGCCACGCTAGGTTATGACGACCTGACCCAGGGGACA
S TGCCTCTTGTACCCTGCCATGCTAGGTTATGACGACCTGACCCAGGGGACA
CAGAGACACATGGGGTTAGACAGGCTTGCCTGGCTCACACTTGCCTCTTGTACCCTGCCA[CT]GCTAGGTTATGACGACCTGACCCAGGGGACAGCAGCAGGAGACTACT
CCAAAGGTGGCTA
S GAGGCAACATTTGAACAGTCCAAATGGGTCTGTGATT
S CGCGCCGAGGAATGCCGTACTTTCAGAGY
S ATGACGTGGCNGACGATGCCGTACTTTCAGAGY
S CTGTCTCTGAAAGTACGGCATTATCACAGACCCATTTGGACTGTTCAAATGTTGCCTCAA
S CTGTCTCTGAAAGTACGGCATCATCACAGACCCATTTGGACTGTTCAAATGTTGCCTCAA
ATAAAATCTGTTAGGCTGCTCCTCAGCACTGGGGTCTGCTGTCTCTGAAAGTACGGCAT[TC]ATCACAGACCCATTTGGACTGTTCAAATGTTGCCTCAAGAAATGAAG
CGACCTGCAAATC
A GGACAGGCGAGATACTCGCCTCTCTGCT
A ATGACGTGGCAGACGAAGACCTTGTGCTTGY
A CGCGCCGAGGAGAAGACCTTGTGCTTGAY
A TCCCTCAAGCACAAGGTCTTCGGCAGAGAGGCGAGTATCTCGCCTGTCCAC
A TCCCTCAAGCACAAGGTCTTCTGCAGAGAGGCGAGTATCTCGCCTGTCCAC
TTATGGTCAGAACCTCTCCTTCTCTTTCGAGTGCACAGCGAGATACTCGCCTCTCTGC[CA]GAAGACCTTGTGCTTGAGGGAGCTGGCTTAAGAGTATCTGTACCCTTG
ATCGCTCAGGGC
A CTCCTCTGCGGCCGTCTTGTTATCGTTCACT
A ATGACGTGGCAGACGCGCTATCAAAATCTGAY
A CGCGCCGAGGAACGCCTATCAAAATCTGAAAY
A CTTGTTTCAGATTTTGATAGGCGCGTGAACGATAACAAGACGCCGCAGAGGAGGC
A CTTGTTTCAGATTTTGATAGGCGTGTGAACGATAACAAGACGCCGCAGAGGAGGC
CTGGTTGATGGCAGGAATCTCCTTAGTGCCTCCTCTGCGGGCCGTCTTGTTATCGTTCAC[GA]CGCCTATCAAAATCTGAAACAAGTTCAAGGACACATTTGAGCTAAAC
TCCGAACAAGTAA
S GCTAGCTTTACTTAACAGGGGTAGGGATTAACCAGT
S CGCGCCGAGGATATGAAAAGAAAGTCCCTAACAY
S ATGACGTGGCAGACGTATGAAAAGAAAGTCCCTAACY
S AAATTGTTAGGGACTTTCTTTTCATAATCTGGTTAATCCCTACCCCTGTTAAGTAAAGCTACCTT
S AAATTGTTAGGGACTTTCTTTTCATACCTGGTTAATCCCTACCCCTGTTAAGTAAAGCTACCTT
TGACTTCAGGAATTGATCCTACAGGTAGCCTCAGAAATTGTTAGGGACTTTCTTTTCATA[TC]CTGGTTAATCCCTACCCCTGTTAAGTAAAGCTACCTTGTTTAATTTT
TTTTATCCTTAAA
S GACTCTCTGTCCCCAGTGTTCTTCATACCCCCT
S CGCGCCGAGGCCTTCCCTGTCCCTCY
S ATGACGTGGCAGACGCTTCCCTGTCCCTCY
LAMC1

FIGURE 129C

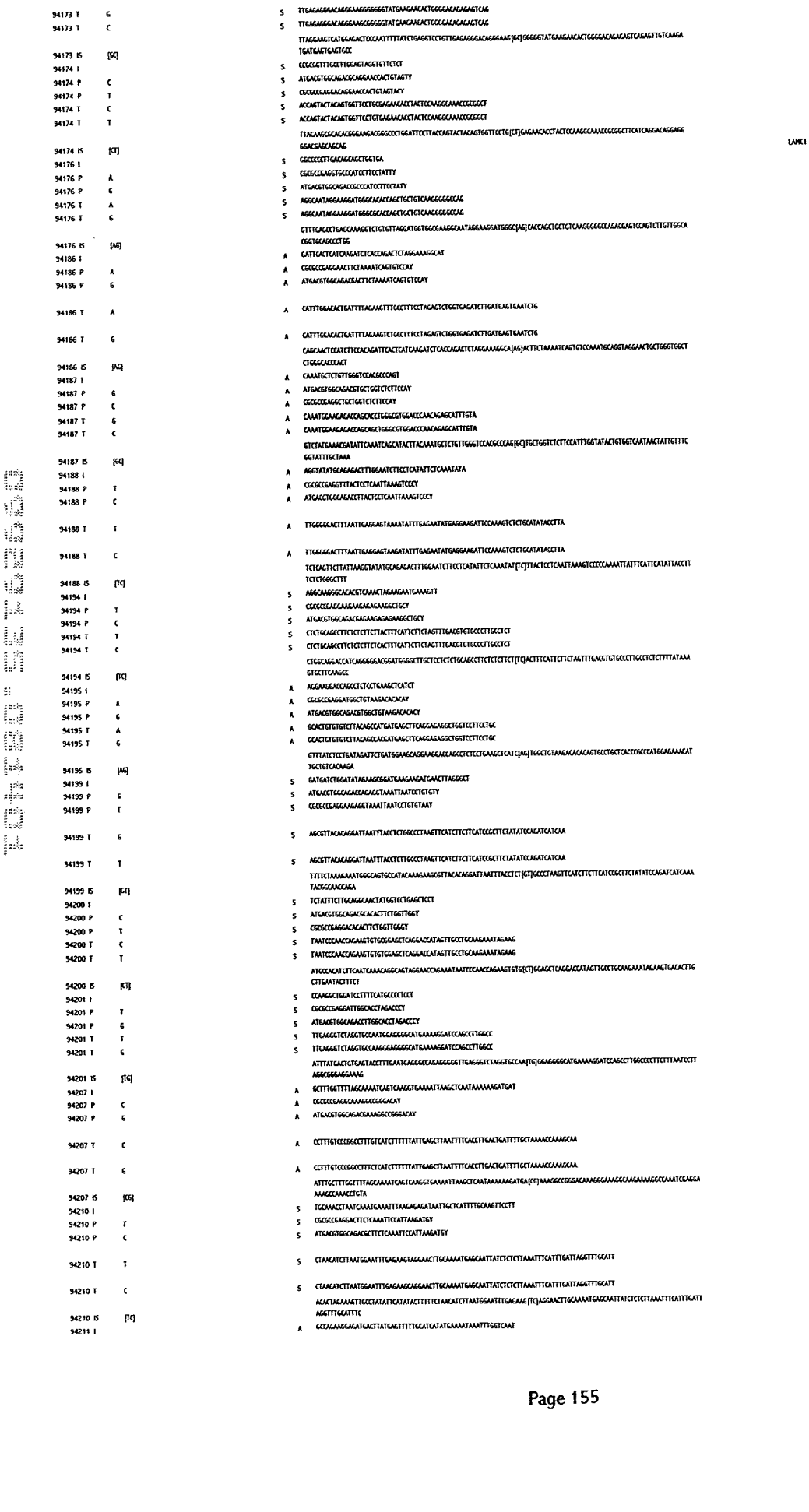


FIGURE 129C

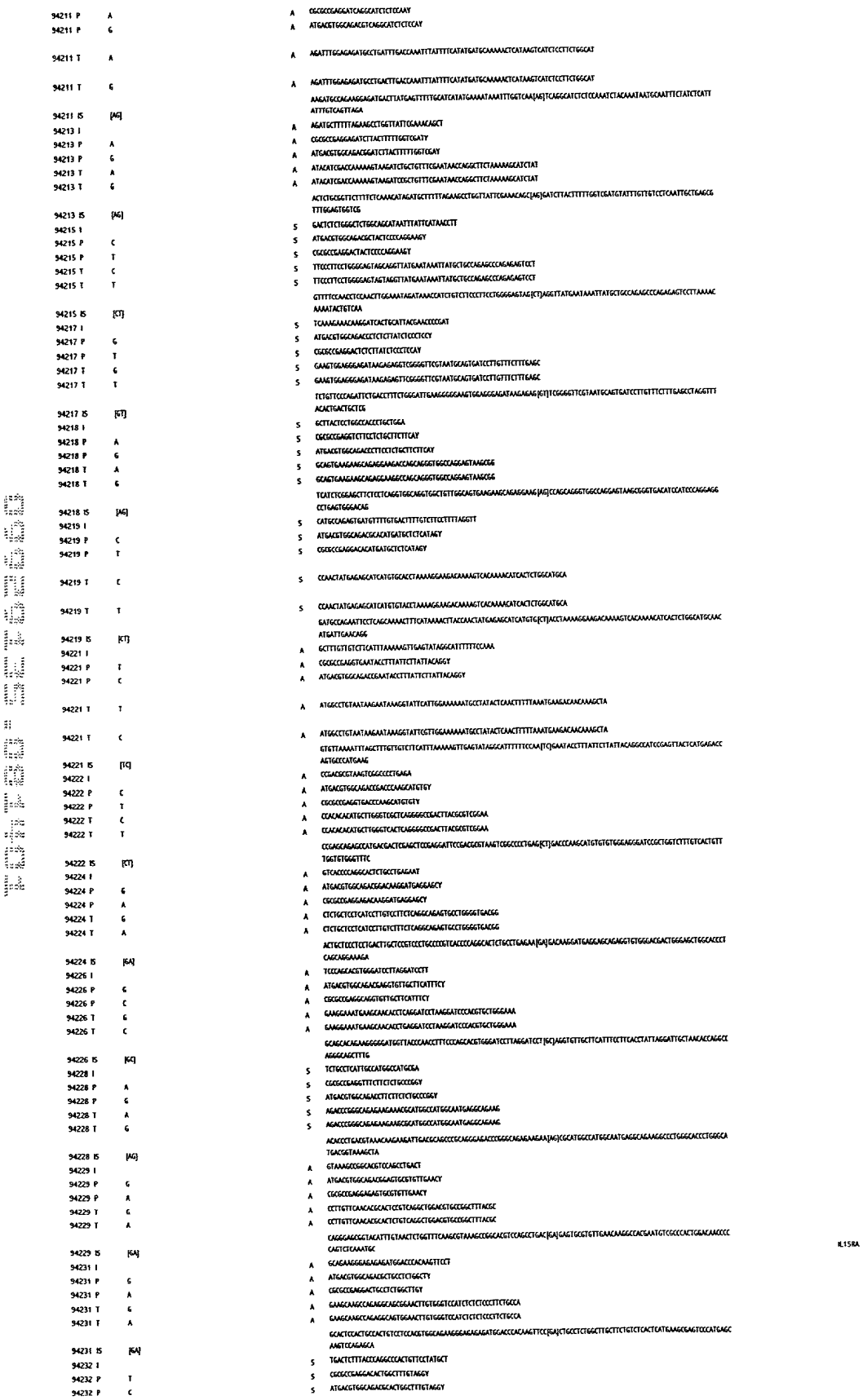


FIGURE 129C

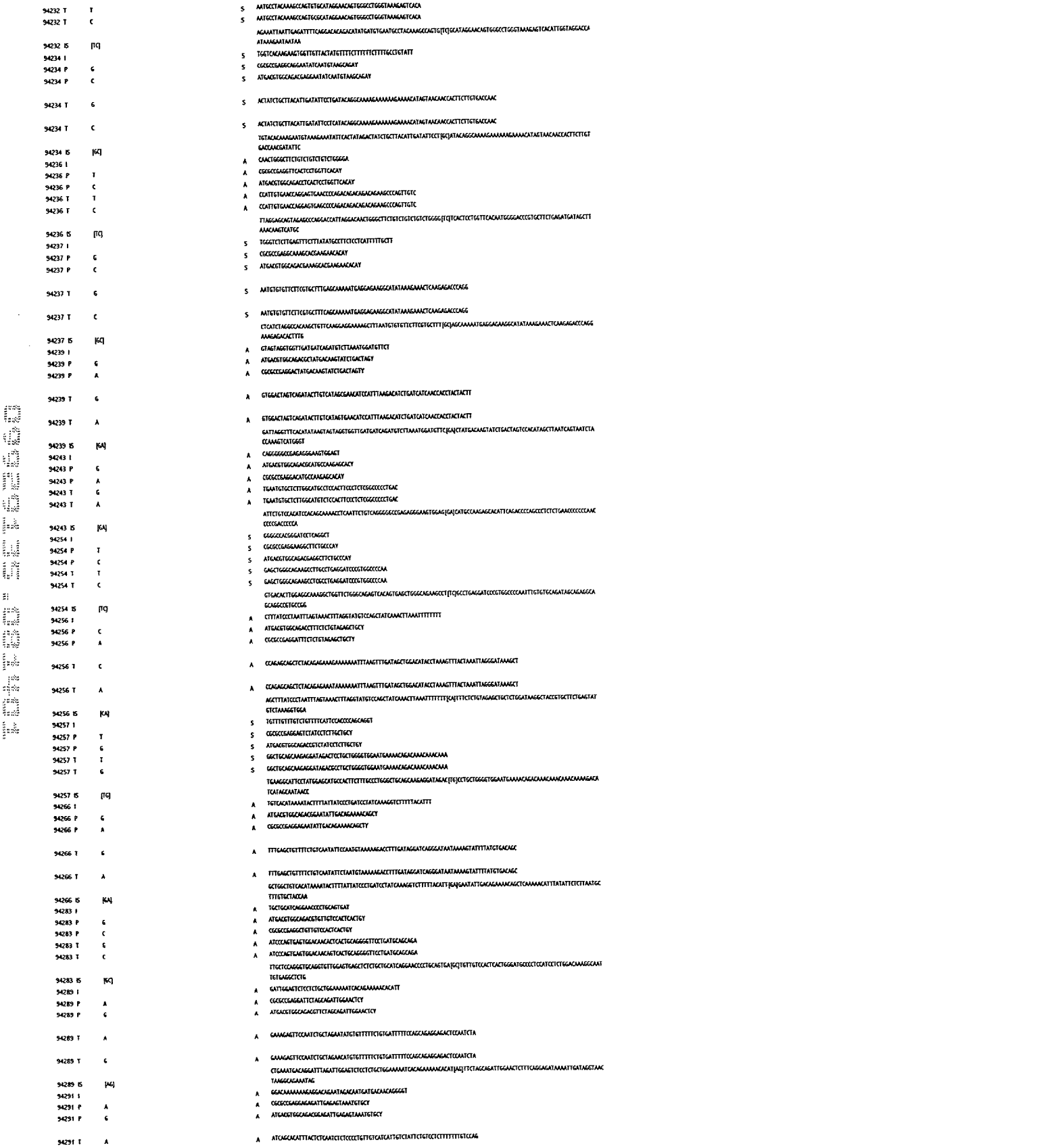


FIGURE 129C

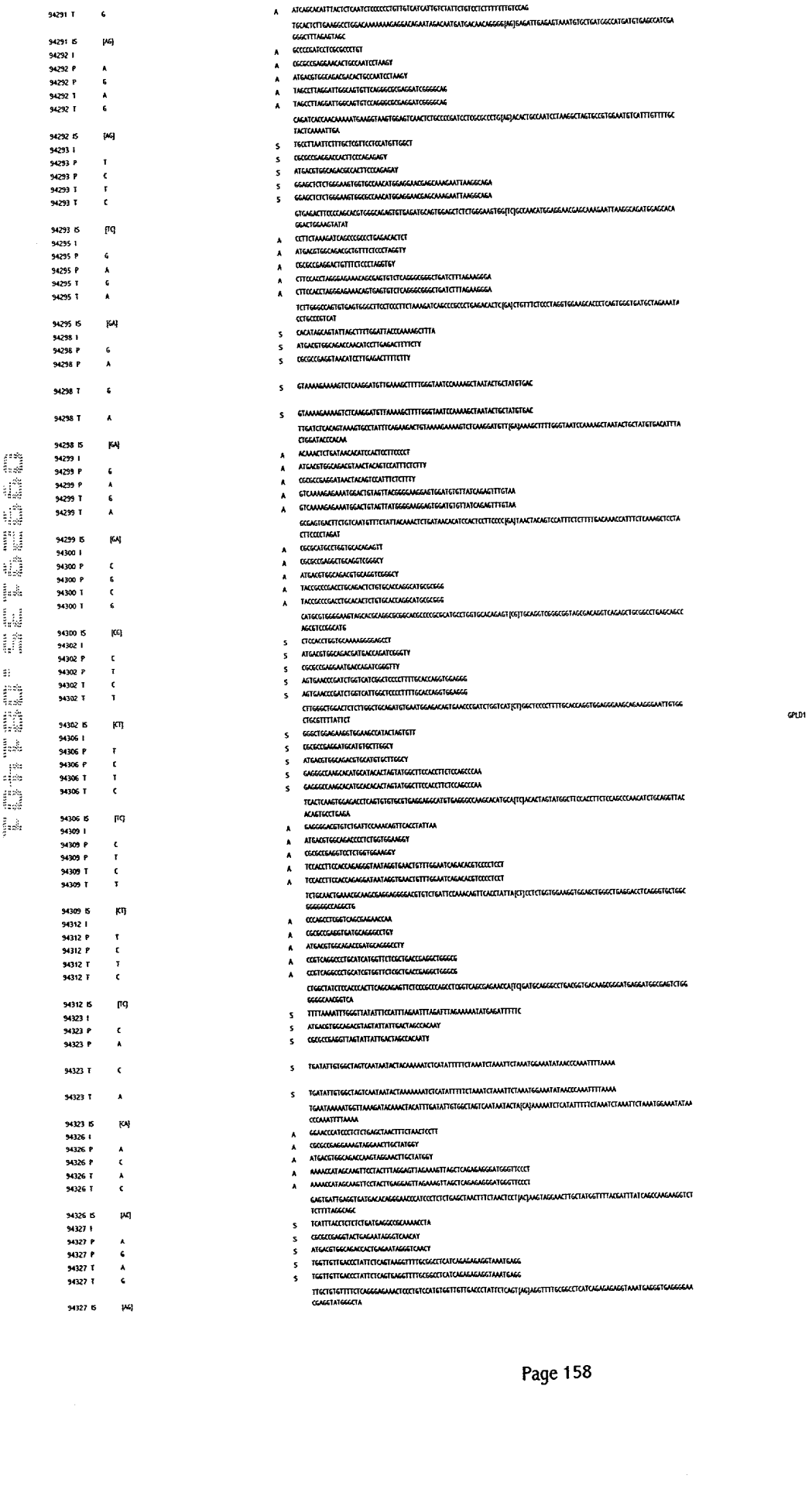


FIGURE 129C

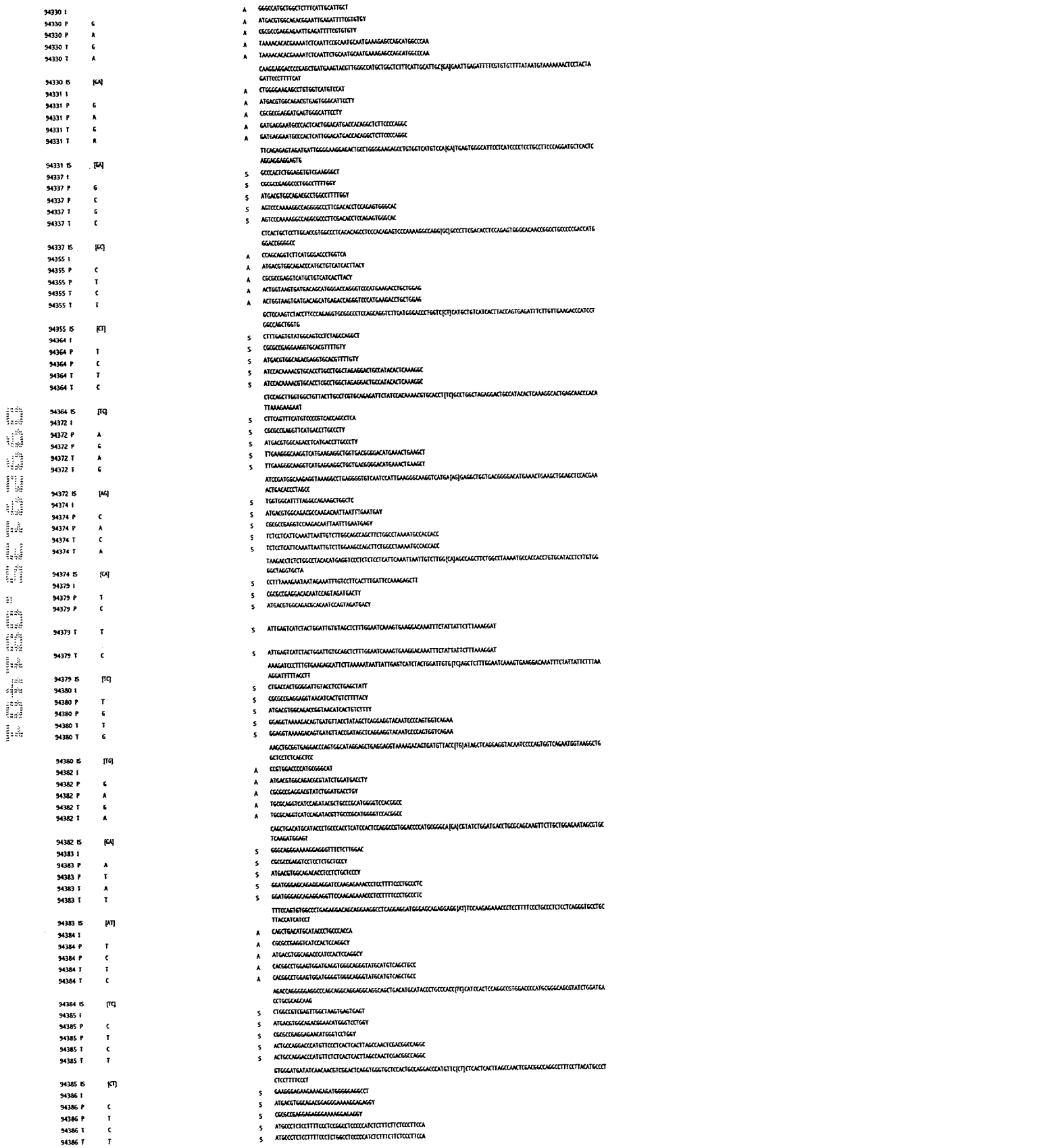


FIGURE 129C

94386	IS	[CT]		TCACTCACTTAGCCAACTCGACGGCCAGGCCTTTCCTTACATGCCCTCTCCTTTTCCCTC[CT]GGCCTCCCCCATCTCTTTCTTCTCCCTTCCATTCCATTTGTCCCACTTACCTCTGGAGAA
94387	I		S	TCCACATCCCGAAGGCCATAGCGTCGT
94387	P	T	S	CGCGCCGAGGAGCAAGGTCACAGGATY
94387	P	G	S	ATGACGTGGCAGACCGCAAGGTCACAGGAY
94387	T	T	S	TGCCATCCTGTGACCTTGCTCGACGCTATGGCCTTCGGGATGTGGACG
94387	T	G	S	TGCCATCCTGTGACCTTGCGCGACGCTATGGCCTTCGGGATGTGGACG
94387	IS	[TG]		GCCCGCAGATCCCAATATCCTGAGCCTGAGTGGTAAGGTGCTGCCATCCTGTGACCTTGC[TG]CGACGCTATGGCCTTCGGGATGTGGACGGTGAGGACCCTGGCACAGCAGTCAGCCTTGAC
94388	I		S	GGAGGAGGAGGATTAGATTCTCATTTCCCACTCCTCAGATAA
94388	P	A	S	CGCGCCGAGGTCCTCACCTTGGCTGY
94388	P	G	S	ATGACGTGGCAGACCCCTCACCTTGGCTY
94388	T	A	S	TCTCCAGCCAAGGTGAGGATATCTGAGGAGTGGGAAATGAGAATCTAATCCTCCTCCTCCTG
94388	T	G	S	TCTCCAGCCAAGGTGAGGGTATCTGAGGAGTGGGAAATGAGAATCTAATCCTCCTCCTCCTG
94388	IS	[AG]		GACTGCTGTTCCCTCTGTTCCCTGCCCACTCCTCCCCTCGGTCTCTCCAGCCAAGGTGAGG[AG]TATCTGAGGAGTGGGAAATGAGAATCTAATCCTCCTCCTCCTGTTGTTCCCAGGCCGCCC
94389	I		S	AGAGGAGGATGGTAGGTAAGGAAGGGTTGCCT
94389	P	C	S	ATGACGTGGCAGACGTACCTGTTGTGCATCCY
94389	P	T	S	CGCGCCGAGGATACCTGTTGTGCATCCTY
94389	T	C	S	GGACAGGATGCACAACAGGTACGGCAACCCTTCCTTACCTACCATCCTCCTCTGG
94389	T	T	S	GGACAGGATGCACAACAGGTATGGCAACCCTTCCTTACCTACCATCCTCCTCTGG
94389	IS	[CT]		AGCACCTACATGGCAGCCACAGGCTTAAATGCCACCTCTGGACAGGATGCACAACAGGTA[CT]GGCAACCCTTCCTTACCTACCATCCTCCTCTGGGCTCTCATTGATGGGCTTATTAGTGGG
94391	I		S	GCCTGAGGCGCCAGCTCCTCTA
94391	P	A	S	CGCGCCGAGGTAGGAACTGCAGACTCCY
94391	P	G	S	ATGACGTGGCAGACCAGGAACTGCAGACTCY
94391	T	A	S	CTGAGGAGTCTGCAGTTCCTAAGAGGAGCTGGCGCCTCAGGCCA
94391	T	G	S	CTGAGGAGTCTGCAGTTCCTGAGAGGAGCTGGCGCCTCAGGCCA
94391	IS	[AG]		GTCCCTCTGTGCTTCCTTCCTCAGCCCAGGGTGACCTTCTCTGAGGAGTCTGCAGTTCCT[AG]AGAGGAGCTGGCGCCTCAGGCCATACCTGGGCTATGACTGGATTGCAGGTAAGGCGTGCT
94392	I		S	CTCTGTATCTGGAGCTCATCTTTGATACTTCCTCTGGATTTGTTTC
94392	P	A	S	CGCGCCGAGGTCTGAACACTTACCCTTCCY
94392	P	T	S	ATGACGTGGCAGACACTGAACACTTACCCTTCCY
94392	T	A	S	GCTCGGAAGGGTAAGTGTTCAGAAAACAAATCCAGAGGAAGTATCAAAGATGAGCTCCAGATACAGAGCT
94392	T	T	S	GCTCGGAAGGGTAAGTGTTCAGTAAACAAATCCAGAGGAAGTATCAAAGATGAGCTCCAGATACAGAGCT
94392	IS	[AT]		ACTCGTGTGGTTAGCCAATCATTGCAGCATTACTTAGAGCTCGGAAGGGTAAGTGTTCAG[AT]AAACAAATCCAGAGGAAGTATCAAAGATGAGCTCCAGATACAGAGCTTTTATTTTGTAGA
94393	I		S	GGCCAGGGGCTGAGGCAGGAC
94393	P	C	S	ATGACGTGGCAGACGGAGACGGTTATAGCAAAGY
94393	P	A	S	CGCGCCGAGGTGAGACGGTTATAGCAAAGY
94393	T	C	S	AGACCTTTGCTATAACCGTCTCCTCCTGCCTCAGCCCCTGGCCCC
94393	T	A	S	AGACCTTTGCTATAACCGTCTCATCCTGCCTCAGCCCCTGGCCCC
94393	IS	[CA]		ACAAAGCTGGTCGCTGCATCTCGGTCTGTTGGGCCCCAAGACCTTTGCTATAACCGTCTC[CA]TCCTGCCTCAGCCCCTGGCCCCCACCCTACCTCCCAGAAAGTTCTCCCCCAAGTTCCTGG
94395	I		S	CAGGAGCCTCTTATTCTGCAAGGGAGGCTT
94395	P	T	S	CGCGCCGAGGACCCACAAGCACATGTY
94395	P	C	S	ATGACGTGGCAGACGCCCACAAGCACATGY
94395	T	T	S	TGACACATGTGCTTGTGGGTAGCCTCCCTTGCAGAATAAGAGGCTCCTGGG
94395	T	C	S	TGACACATGTGCTTGTGGGCAGCCTCCCTTGCAGAATAAGAGGCTCCTGGG
94395	IS	[TC]		TGCTGATGGGAGGAGCTTCCTTGGGCCTCAGTTTCCCTATCTGACACATGTGCTTGTGGG[TC]AGCCTCCCTTGCAGAATAAGAGGCTCCTGGGAGATACTGTGAGTTGGGTCTTGCTCAGCC
94398	I		A	TGACCTGTCCCTTTCAAGTGGCCCCCA
94398	P	C	A	ATGACGTGGCAGACCTGAGACTTCCCTATTCCCY
94398	P	T	A	CGCGCCGAGGTTGAGACTTCCCTATTCCCY
94398	T	C	A	GATGGGGAATAGGGAAGTCTCAGGGGGCCACTTGAAAGGGACAGGTCATC
94398	T	T	A	GATGGGGAATAGGGAAGTCTCAAGGGGGCCACTTGAAAGGGACAGGTCATC
94398	IS	[CT]		AAGATCCAGGAGGGAATGTGGCTGGAACTGGGGATGACCTGTCCCTTTCAAGTGGCCCCC[CT]TGAGACTTCCCTATTCCCCATCCAGGCCTCACCAATGCAGATGCTGCCCCCGACCCCGAC
94402	I		S	CCCATTAGGAAGGAGGCCCCCACCAT
94402	P	T	S	CGCGCCGAGGAGGCAGGGCCTGY
94402	P	C	S	ATGACGTGGCAGACGGGCAGGGCCTGY
94402	T	T	S	GACACAGGCCCTGCCTTGGTGGGGGCCTCCTTCCTAATGGGGG
94402	T	C	S	GACACAGGCCCTGCCCTGGTGGGGGCCTCCTTCCTAATGGGGG
94402	IS	[TC]		TCTGCCAGGATAAGAAAGGGGAGAGCTGGGGTAGTCTTGTGGGTAGACACAGGCCCTGCC[TC]TGGTGGGGGCCTCCTTCCTAATGGGGGGCACAGTTCCTCCCTGATGGGGGTGTGCCCAGT
94404	I		S	TGACGACTTGGGCCTTCCTAAGCAGCACA
94404	P	A	S	CGCGCCGAGGTGAGCCGGGTAGAGAY
94404	P	G	S	ATGACGTGGCAGACCGAGCCGGGTAGAGY
94404	T	A	S	TGGCTCTCTACCCGGCTCAGTGCTGCTTAGGAAGGCCCAAGTCGTCAGA
94404	T	G	S	TGGCTCTCTACCCGGCTCGGTGCTGCTTAGGAAGGCCCAAGTCGTCAGA
94404	IS	[AG]		AGCCCTCAGTGTGTGCTGTCCAGAAAGACCCCATCTCCACCATGGCTCTCTACCCGGCTC[AG]GTGCTGCTTAGGAAGGCCCAAGTCGTCAGACTCACCTGTGCACAGAGGCTCTGCTTCCTA
94406	I		S	CCGCAGACAGTGCAGCCAGGCCT
94406	P	C	S	ATGACGTGGCAGACGCCTGTGCTCACTGY
94406	P	T	S	CGCGCCGAGGACCTGTGCTCACTGCY
94406	T	C	S	TCCAGCAGTGAGCACAGGCGGCCTGGCTGCACTGTCTGCGGGG
94406	T	T	S	TCCAGCAGTGAGCACAGGTGGCCTGGCTGCACTGTCTGCGGGG
94406	IS	[CT]		CCGCCGCAGGGCTCCTGGTCTGTCCTTAAGGGTAGGAGCGGGTCCAGCAGTGAGCACAGG[CT]GGCCTGGCTGCACTGTCTGCGGGGAGCTGTGCCCAGTGGCCAGGAGGGAGGATGGGACTC
94407	I		S	TCCCCAGCCCTCCCAGGAGCAGT
94407	P	T	S	CGCGCCGAGGAACAGCCTCACAGACTAY
94407	P	G	S	ATGACGTGGCAGACCACAGCCTCACAGACTY
94407	T	T	S	CCTCTAGTCTGTGAGGCTGTTCTGCTCCTGGGAGGGCTGGGGAAG
94407	T	G	S	CCTCTAGTCTGTGAGGCTGTGCTGCTCCTGGGAGGGCTGGGGAAG
94407	IS	[TG]		GGAAGTGGAGGCCACTGAGGGCTTGGCATGAAGCTGGGACCCTCTAGTCTGTGAGGCTGT[TG]CTGCTCCTGGGAGGGCTGGGGAAGCTCCCCACCAGGCTCCTCCTTCCTCCTAGGACAGTG
94414	I		S	CGGGAGAAAACCCGCCTAGAAAAATTCCGTCAT
94414	P	C	S	ATGACGTGGCAGACGCTTCTCTCCAGCCAY
94414	P	T	S	CGCGCCGAGGACTTCTCTCCAGCCAGY
94414	T	C	S	TGTTCTGGCTGGAGAGAAGCTGACGGAATTTTTCTAGGCGGGTTTTCTCCCGGA
94414	T	T	S	TGTTCTGGCTGGAGAGAAGTTGACGGAATTTTTCTAGGCGGGTTTTCTCCCGGA
94414	IS	[CT]		CTCCTACCTTGCCTGGGCTCACAGGGACTCACCTAAGTCAGTGTTCTGGCTGGAGAGAAG[CT]TGACGGAATTTTTCTAGGCGGGTTTTCTCCCGGACAGTCATTGGGGGGCCCCAGAAGCG
94418	I		S	GTTGGGAGGCAGCAGAGCATGGGTT
94418	P	C	S	ATGACGTGGCAGACGACAGTGGGAGCACAY
94418	P	T	S	CGCGCCGAGGAACAGTGGGAGCACAY
94418	T	C	S	GTCGTGTGCTCCCACTGTCACCCATGCTCTGCTGCCTCCCAACCC

FIGURE 129C

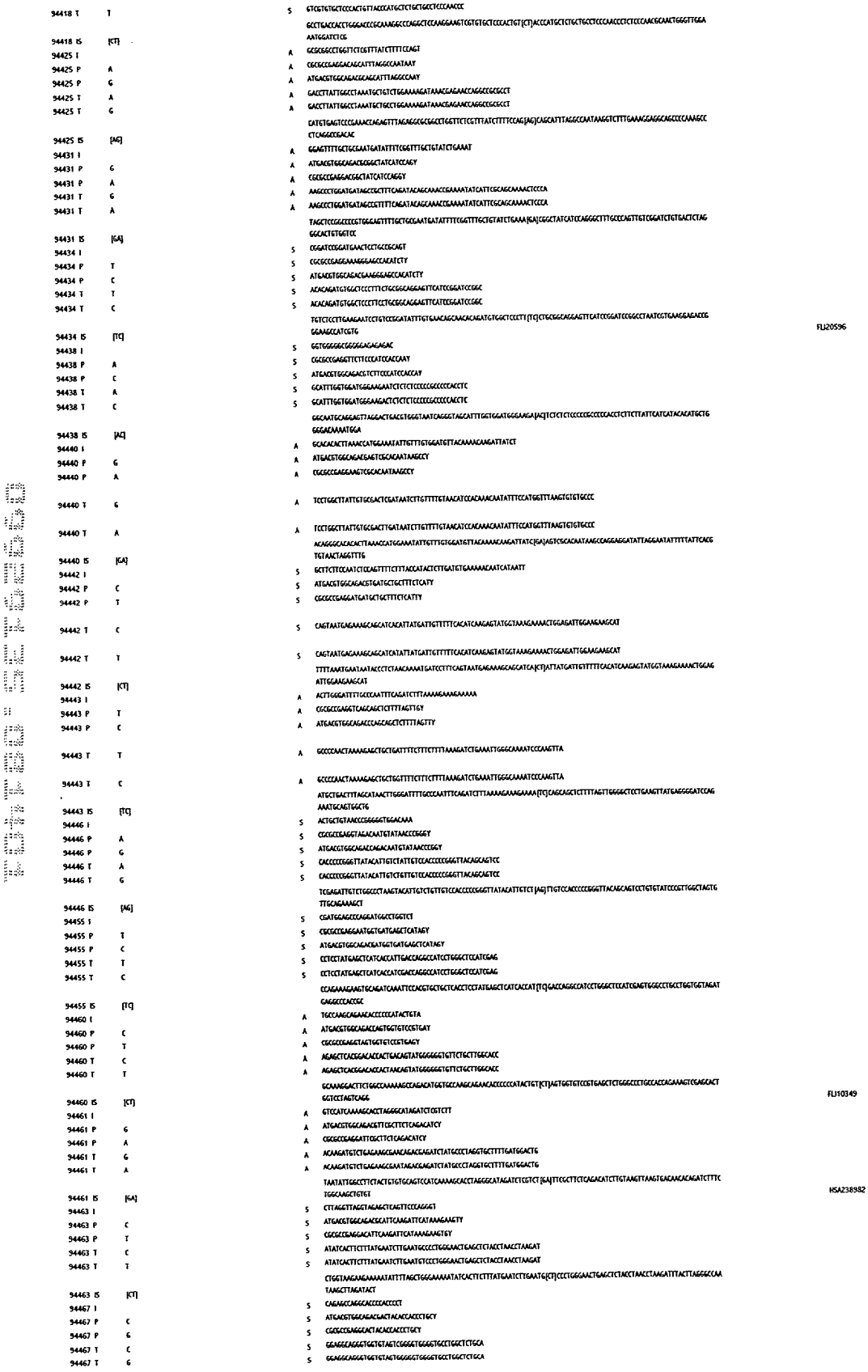


FIGURE 129C

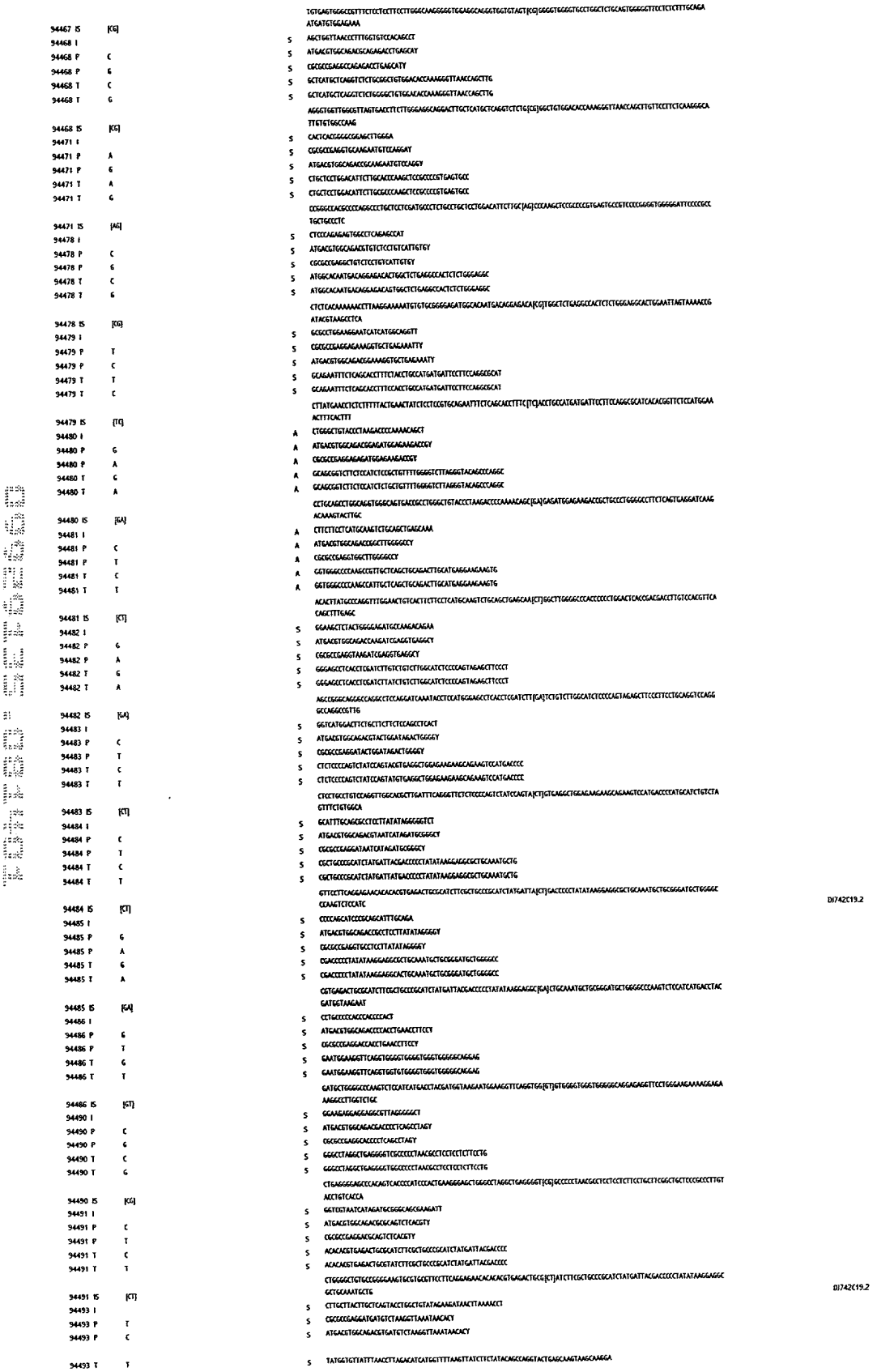
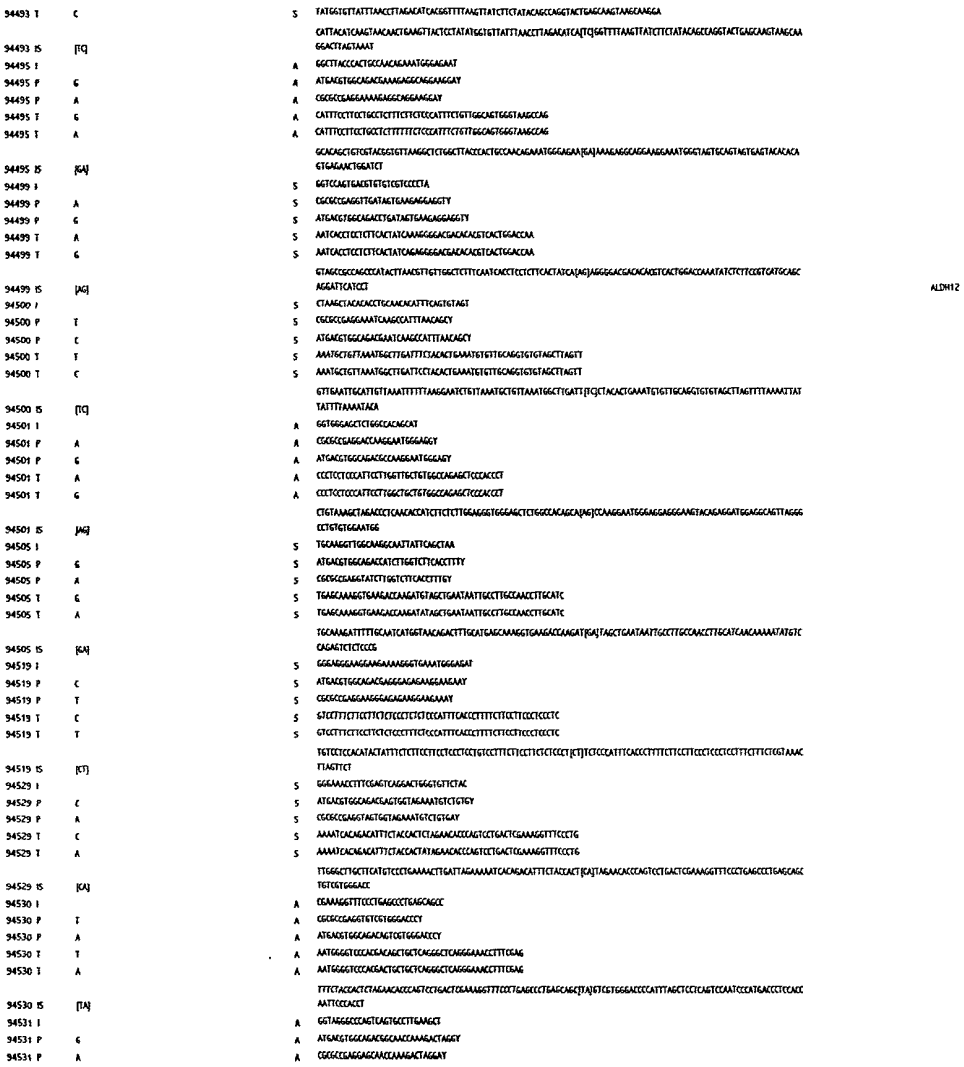
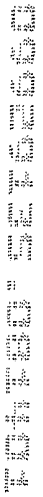


FIGURE 129C





94538 T	C		S	TTTTCCAAAACTCCCTTTGTTTCCTTCTAGTGCACATCTCTCACCCGGGAGGCTCG
94538 IS	[GC]			TTAGAGAGCAGACCTGTCCTATTCTGGACCACTTCTGTTTTCCAAAACTCCCTTTGTTT[GC]CTCTAGTGCACATCTCTCACCGGGAGGCTCGAGGACCCTCATTTAGG ATCTGTGTGGAC
94540 I			A	CCATTGCTGGCACCTGGTGGGCAGY
94540 P	G		A	ATGACGTGGCAGACGGCCCCATAGGAGCY
94540 P	A		A	CGCGCCGAGGAGCCCCATAGGAGCY
94540 T	G		A	GAAGGCTCCTATGGGGCCTGCCCACCAGGTGCCAGCAATGGAG
94540 T	A		A	GAAGGCTCCTATGGGGCTCTGCCCACCAGGTGCCAGCAATGGAG
94540 IS	[GA]			CTGGTTCAAGGCCATCCAGGTACTTCCTTCCAAGCTCCATTGCTGGCACCTGGTGGGCAG[GA]GCCCCATAGGAGCCTTCCTGCCCGTCCCCCCCACCGGGTGGAGATCA GGAGCCCAGCCA
94543 I			A	CTGTGGCCATCCCTGCATCACGAGCT
94543 P	G		A	ATGACGTGGCAGACGAGATGATGCCAGGACAT
94543 P	A		A	CGCGCCGAGGAAGATGATGCCAGCACAT
94543 T	G		A	GTCCTGTCCTGGCATCATCTCGCTGCTGATGCAGGGATGGCCACAGGG
94543 T	A		A	GTCCTGTCCTGGCATCATCTTGCTGCTGATGCAGGGATGGCCACAGGG
94543 IS	[GA]			CAGGAAGTCCATGAAAAACTCATCGTTGTCCTCCCCTGTGGCCATCCCTGCATCACGAGC[GA]AGATGATGCCAGGACAGGACAGGGTGACTCTGGTGCAACCACAGCCC TGGACCTGCCCCA
94545 I			S	GACCTTGCCCTGAGGCAAAACCCAGGT
94545 P	C		S	ATGACGTGGCAGACGCAATATAATAATATGGTTGAGATGGY
94545 P	T		S	CGCGCCGAGGACAATATAATAATATGGTTGAGATGGY
94545 T	C		S	ATGCCCATCTCAACCATATTATTATATTGCCCTGGGTTTTGCCTCAGGGCAAGGTCTC
94545 T	T		S	ATGCCCATCTCAACCATATTATTATATTGTCCTGGGTTTTGCCTCAGGGCAAGGTCTC
94545 IS	[CT]			ATGTATGTAAAAGTGCTTTATAAAGATTGACATGCCCATCTCAACCATATTATTATATTG[CT]CCTGGGTTTTGCCTCAGGGCAAGGTCTCCCTTTTGTTCTAAGATCTC TTTGGACTTCAAC
94547 I			S	GTCAAGCTGCTGGTATGAGGGCGGCT
94547 P	C		S	ATGACGTGGCAGACGGGCACCCCATTTTCY
94547 P	T		S	CGCGCCGAGGAGGCACCCCATTTTCTY
94547 T	C		S	CTTTAGAAAATGGGGTGCCCGCCGCCCTCATACCAGCAGCTTGACCA
94547 T	T		S	CTTTAGAAAATGGGGTGCCTGCCGCCCTCATACCAGCAGCTTGACCA
94547 IS	[CT]			GTGTGGGTGCTGTGTTGGGTGGTCTTGGTAAGGCTGCAGATCTTTAGAAAATGGGGTGCC[CT]GCCGCCCTCATACCAGCAGCTTGACCAGCTCCGCCTTGTGCATTGGC TGCAGGCCATCTA
94550 I			A	CTGTAGAGGACTTGGTGGCCCACCGTTA
94550 P	C		A	ATGACGTGGCAGACCGCCTTGAACTTCATCCY
94550 P	T		A	CGCACCGAGGTGCCTTGAACTTCATCCY
94550 T	C		A	TCCTGGATGAAGTTCAAGGCGAACGGTGGGCCACCAAGTCCTCTACAGTC
94550 T	T		A	TCCTGGATGAAGTTCAAGGCAAACGGTGGGCCACCAAGTCCTCTACAGTC
94550 IS	[CT]			GGTCAGCTCCAGACAGCGAAACAACTGAGGGACTGTAGAGGACTTGGTGGCCCACCGT[CT]GCCTTGAACTTCATCCAGGAGAATCCTGGAGAGGGAGACCCCGAACC TAGAGCAGCCACT
94566 I			A	GCACACTCACCTGCGGCTGATGGCA
94566 P	C		A	ATGACGTGGCAGACCGCCTCTCCAGTGAGY
94566 P	T		A	CGCGCCGAGGTGCCTCTCCAGTGAGY
94566 T	C		A	CTCCCTCACTGGAGAGGCGGCCATCAGCCGCAGGTGAGTGTGCCT
94566 T	T		A	CTCCCTCACTGGAGAGGCAGCCATCAGCCGCAGGTGAGTGTGCCT
94566 IS	[CT]			GCTGGCAGCCAGGCAGCGACCAGGGTACCCACTCACAGGCACACTCACCTGCGGCTGATGGC[CT]GCCTCTCCAGTGAGGCAGCTGCTAGAGGGTGGTGGTGAGAAGGGGCT GCCGGCCCTCGGG
94570 I			A	CTCATCCAGTTCGAGGCCTCTTTATGGCAGCT
94570 P	G		A	ATGACGTGGCAGACGAGTGGGGACTCAGTAAY
94570 P	A		A	CGCGCCGAGGAAGTGGGGACTCAGTAAGY
94570 T	G		A	CTTTCTTACTGAGTCCCCACTCGCTGCCATAAAGAGGCCTCGAACTGGATGAGAG
94570 T	A		A	CTTTCTTACTGAGTCCCCACTTGCTGCCATAAAGAGGCCTCGAACTGGATGAGAG
94570 IS	[GA]			CCCCTGTGCGGCTCTTCCCTGCACTCTCTCTCATCCAGTTCGAGGCCTCTTTATGGCAGC[GA]AGTGGGGACTCAGTAAGAAAGTCAGAAGCACAATTACTATTGTGAGA AAGTCTGAAGAGT
94612 I			S	CCACTCCAGTGGTCATCCTCTCCTCCCGT
94612 P	G		S	ATGACGTGGCAGACCAATAACCACACACCTGTAY
94612 P	T		S	CGCGCCGAGGAAATAACCACACACCTGTACY
94612 T	G		S	CATAGTACAGGTGTGTGGTTATTGCGGGAGGAGAGGATGACCACTGGAGTGGCC
94612 T	T		S	CATAGTACAGGTGTGTGGTTATTTCGGGAGGAGAGGATGACCACTGGAGTGGCC
94612 IS	[GT]			TCACCCTGGCTGACTGCAACCTGTTGCCAAAGTTACACATAGTACAGGTGTGTGGTTATT[GT]CGGGAGGAGAGGATGACCACTGGAGTGGCCCTTTAAGGAGCTCCCAC ATGGGCTCCCCT
94616 I			S	GAATTCACACTTCAAGAGGTTGTCTGTACCTAATTGTGATTTATTAATTT
94616 P	C		S	ATGACGTGGCAGACGGGTAGATTAGTTCAGGGTY
94616 P	T		S	CGCGCCGAGGAGGTAGATTAGTTCAGGGTATAY
94616 T	C		S	TATTTATACCCTGAACTAATCTACCCAATTAATAAATCACAATTAGGTACAGACAACCTCTTGAAGTGTGAATTCCT
94616 T	T		S	TATTTATACCCTGAACTAATCTACCTAATTAATAAATCACAATTAGGTACAGACAACCTCTTGAAGTGTGAATTCCT
94616 IS	[CT]			CAATGGCATATCTTTGAAACATCAGGAACATTGTCTATTTATACCCTGAACTAATCTACC[CT]AATTAATAAATCACAATTAGGTACAGACAACCTCTTGAAGTGTGAAT TCTTCTTTCATA
94617 I			S	ACCTGGGAGAAAGCTCACTGGACTCACCATTTT
94617 P	C		S	ATGACGTGGCAGAGTGAACTGGGCCTGGY
94617 P	T		S	CGCGCCGAGGATGAACTGGGCCTGGY
94617 T	C		S	GATCCAGGCCCAGTTCACAAATGGTGAGTCCAGTGAGCTTCTCCCAGGTGA
94617 T	T		S	GATCCAGGCCCAGTTCATAAATGGTGAGTCCAGTGAGCTTCTCCCAGGTGA
94617 IS	[CT]			CCGTGGCTGCCCTCTCCTGCCTCATGCTTGTTGCTGTCCTTGGATCCCAGGCCCAGTTCA[CT]AAATGGTGAGTCCAGTGAGCTTCTCCCAGGTGACCAGGTCCATGGTA ACTCAAGCTCTG
94621 I			A	CCTCGGCCAGCCCTGCCTGCA
94621 P	C		A	ATGACGTGGCAGACCCACCAGGAGGATGAAY
94621 P	T		A	CGCGCCGAGGTCACCAGGAGGATGAAGY
94621 T	C		A	AGACCTTCATCCTCCTGGTGGGCAGGCAGGGCTGGCCGAGGAC
94621 T	T		A	AGACCTTCATCCTCCTGGTGAGCAGGCAGGGCTGGCCGAGGAC
94621 IS	[CT]			CTGGTATCCCGGGGCAGCCAGGAAGCAGTGAGCCCAGGAGTCCTCGGCCAGCCCTGCCTGC[CT]CACCAGGAGGATGAAGGTCTCCGTGGCTGCCCTCCTGCCTCATGCT TGTTGCTGTCCT
94624 I			S	GTTGGGAAGGCTGGGCTGGAACCCA
94624 P	G		S	ATGACGTGGCAGACCGGTTTCAAGCTCTCTATGY
94624 P	A		S	CGCGCCGAGGTGGTTTCAAGCTCTCTATGY
94624 T	G		S	CAGACATAGAGAGCTTGAAACCGGGGTTCCAGCCCAGCCTTCCCAACCC
94624 T	A		S	CAGACATAGAGAGCTTGAAACCAGGGTTCCAGCCCAGCCTTCCCAACCC
94624 IS	[GA]			CCTCACCTCAACCTCACCTCAGTGGCTGCTTGGATCTTGCAGACATAGAGAGCTTGAAACC[GA]GGGTTCCAGCCCAGCCTTCCCAACCCTGAGGCAGCAAGGGAGGAAG CGCGTAGACTCAC
94625 I			A	CTCACCGCGTATCCTCTGGACTGAGCTGT
94625 P	C		A	CGCGCCGAGGCTCTGACTGGGTGGAGY
94625 P	G		A	ATGACGTGGCAGAGTCTGACTGGGTGGAGY
94625 T	C		A	AGCCCTCCACCTAGTCAGAGCAGCTCAGTCCAGAGGATACGCGGTGAGCA
94625 T	G		A	AGCCCTCCACCCAGTCAGAGCAGCTCAGTCCAGAGGATACGCGGTGAGCA
94625 IS	[CG]			TTCCTGCCTTCTTCTATGCAAGACGGCTGTGCTCACCGCGTATCCTCTGGACTGAGCTG[CG]TCTGACTGGGTGGAGGGCTGGGAGTGGGGCCTGTGCTGAGCTCAGCTG TGATGAGCTGCAG
94626 I			S	GCCCTGGCTTCTGGACCCCACA
94626 P	A		S	CGCGCCGAGGTTCCCAGTACCTGCTGY
94626 P	G		S	ATGACGTGGCAGAGCTCCCAGTACCTGCTGY

FIGURE 129C

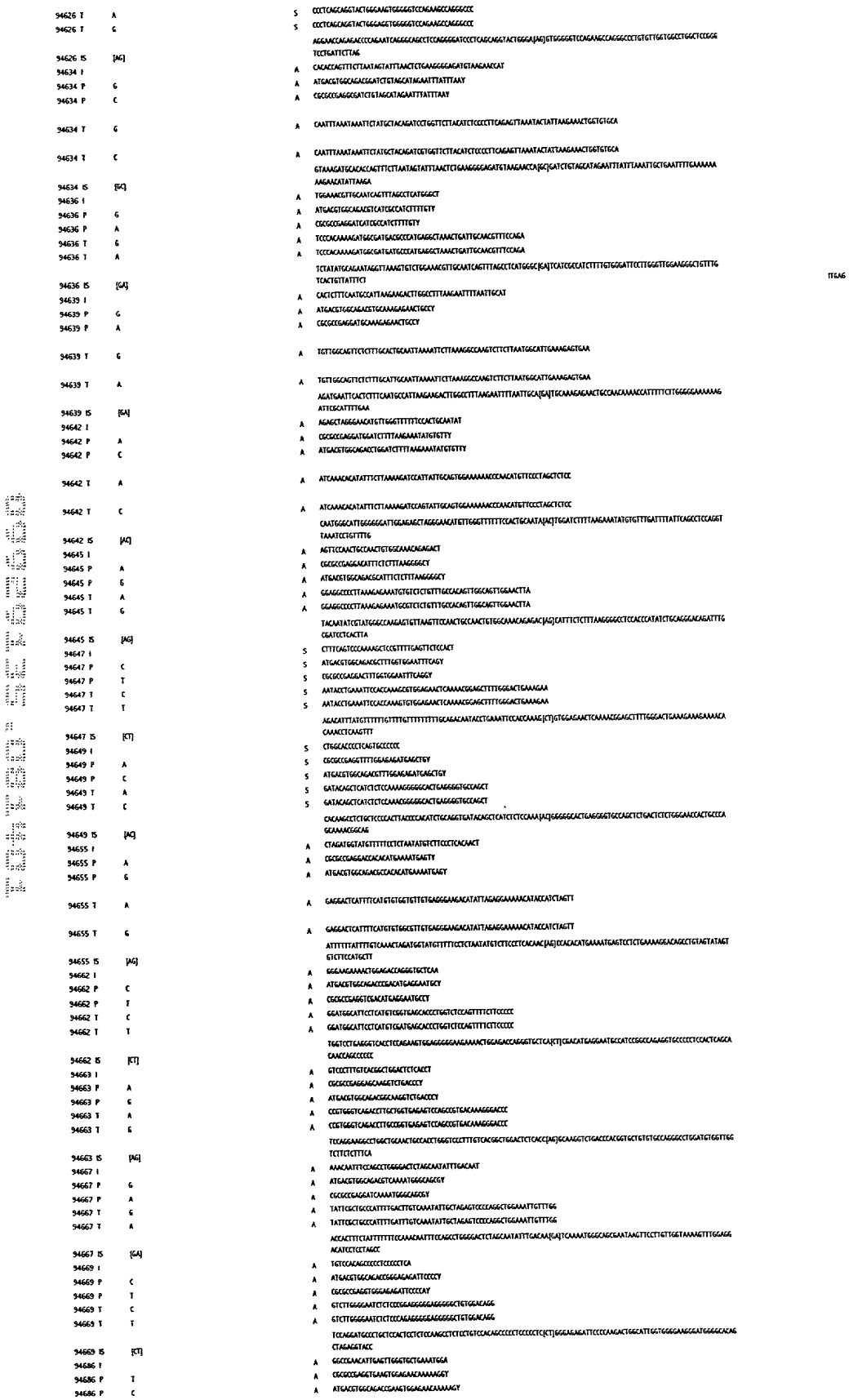


FIGURE 129C

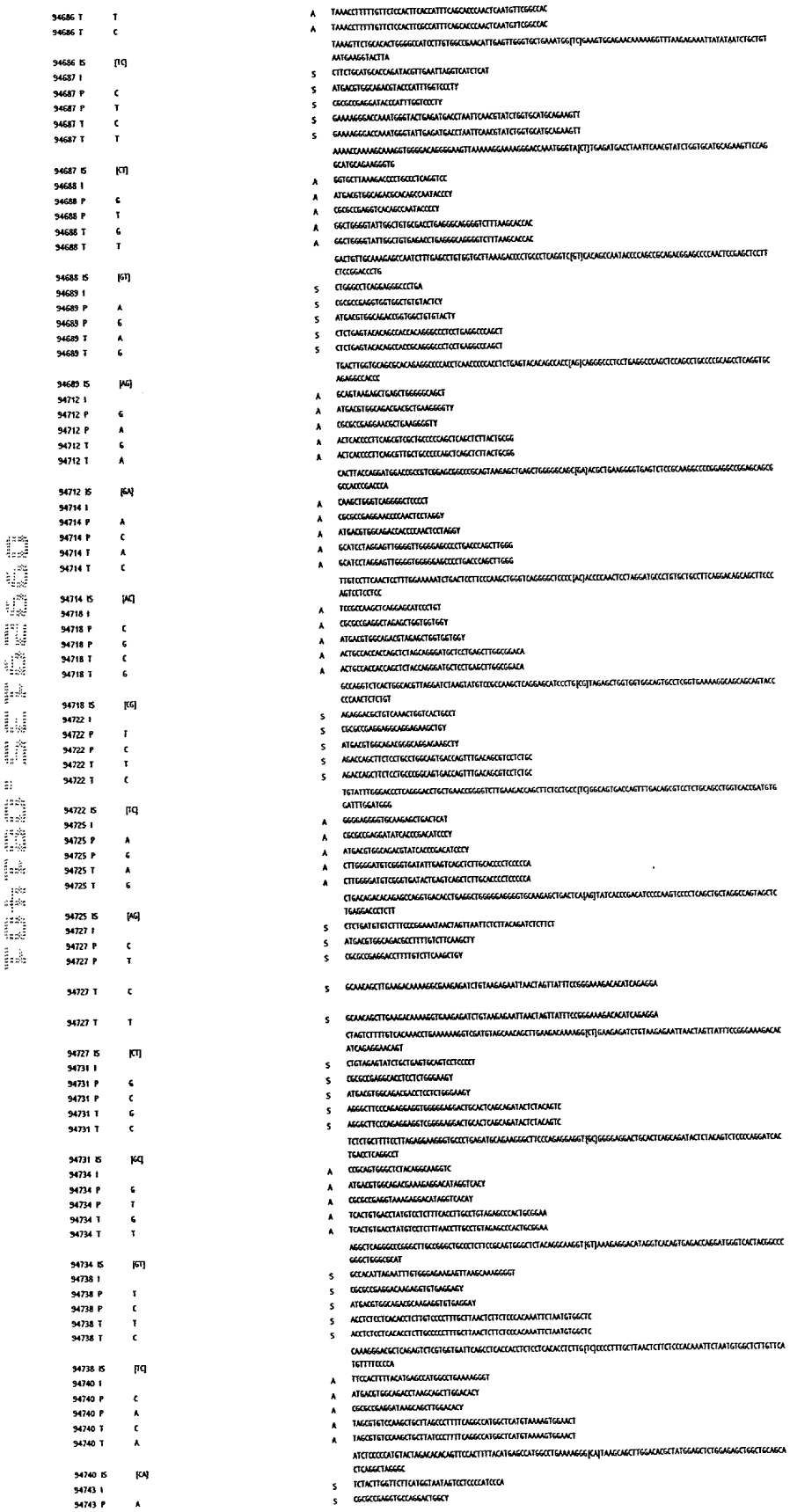

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94686 T C
94686 IS [TC]
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94687 P T
94687 T C
94687 T T
94687 IS [CT]
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94688 P G
94688 P T
94688 T G
94688 T T
94688 IS [GT]
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94688 P G
94689 T A
94689 T G
94689 IS [AG]
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94712 P A
94712 T G
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S CGCGCCGAGGTGGTGGCTGTGTACTCY
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S CGCGCCGAGGAGGCAGGAGAAGCTGY
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S CGCGCCGAGGTGCCAGGACTGGCY

FIGURE 129C

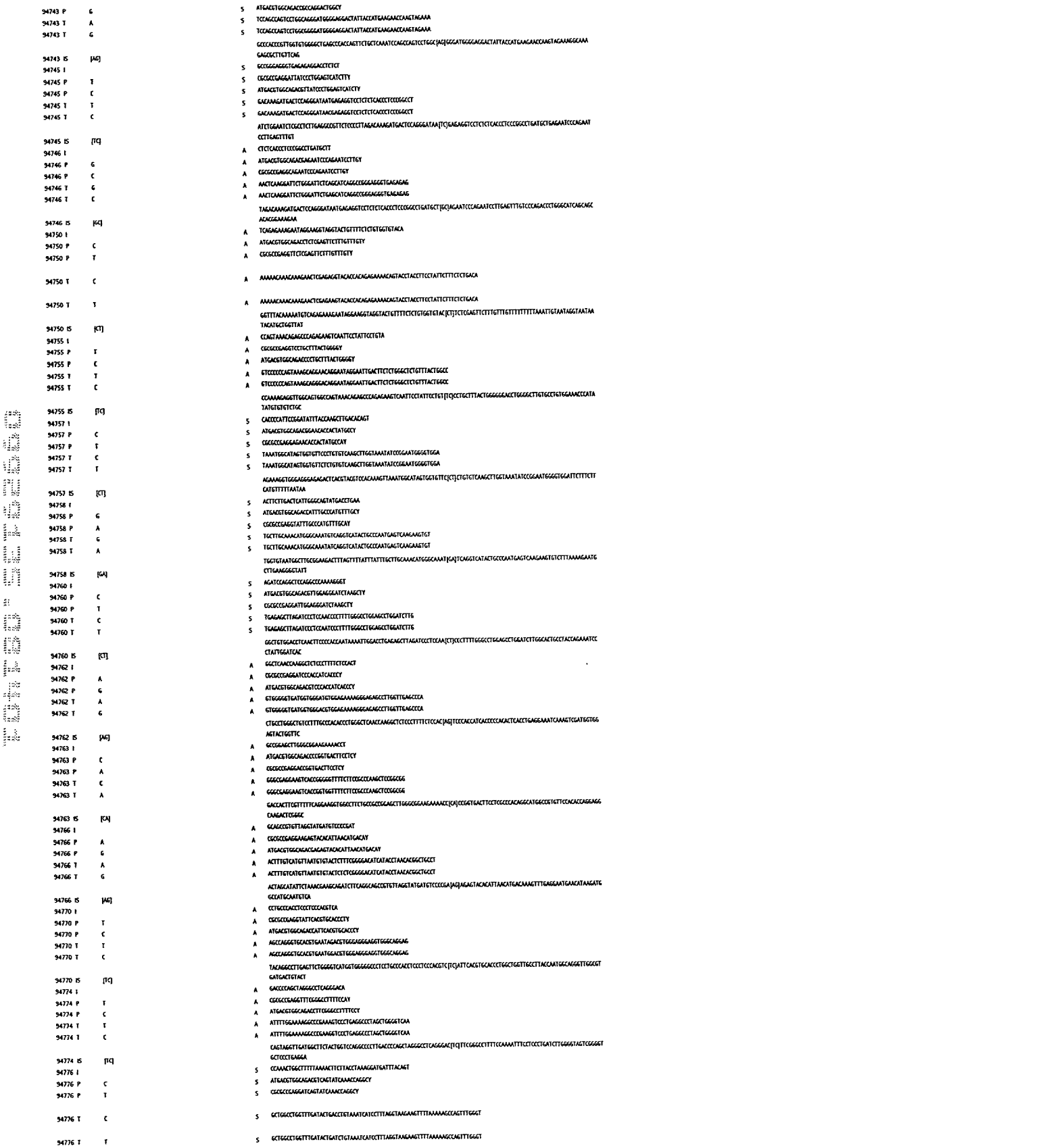
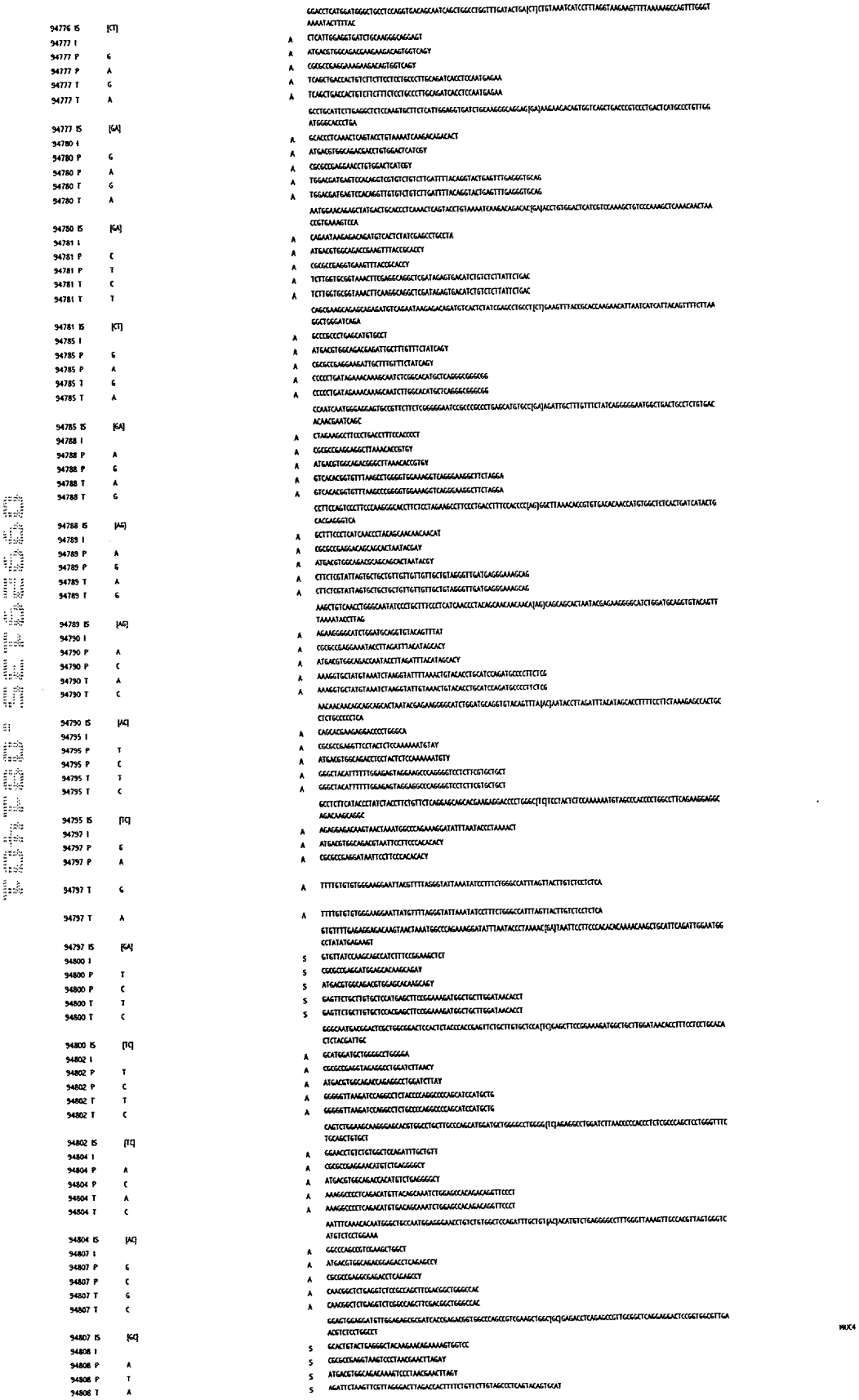


FIGURE 129C



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94808 T   T     S  AGATTCTAAGTTCGTTAGGGACTTTGACCACTTTTCTGTTCTTGTAGCCCTCAGTACAGTGCAT

                   ATATGATCTTTGTTCCTATAACTCCTGCACTAGAAATAGATTCTAAGTTCGTTAGGGACTT[AT]GACCACTTTTCTGTTCTTGTAGCCCTCAGTACACTGCATTCAGAGTG
94808 IS  [AT]      TCCTAGGTCATGG
94811 I           S  CAGGACAGGTGTGGGCAGCCTGCT
94811 P   C       S  ATGACGTGGCAGACGGGGAGCGCTCTGY
94811 P   T       S  CGCGCCGAGGAGGAAGCCTCTGT
94811 T   C       S  ATCCCAGAGGCCTCCCCGCAGGCTGCCCACACCTGTCCTGTG
94811 T   T       S  ATCCCAGAGGCCTCCCTGCAGGCTGCCCACACCTGTCCTGTG

                   CAGGAAGTCCAAGTGGGCCTGGGCCTCCTTTAGGGCTGAAAGGGATCCCAGAGCGCTCCC[CT]GCAGGCTGCCCACACCTGTCCTGTGTCCCCCAAGGCCCAGAGGCAG
94811 IS  [CT]      CCATCTAGGGTG
94813 I           A  GGGGCAAGAGGCTCCGGCCTCA
94813 P   C       A  ATGACGTGGCAGACCTCTGGCAGTTGAATCCY
94813 P   T       A  CGCGCCGAGGTTCTGGCAGTTGAATCCY
94813 T   C       A  ATCTGGATTCAACTGCCAGAGGAGGCCGGAGCCTCTTGCCCCAT
94813 T   T       A  ATCTGGATTCAACTGCCAGAAGAGGCCGGAGCCTCTTGCCCCAT

                   TTGGGCCTTCCTCACTTCCTAATGCCCTGCACCTCCCATGGGGCAAGAGGCTCCGGCCTC[CT]TCTGGCAGTTGAATCCAGATGGATGACAAGATGAAGGCCGCACAGCGA
94813 IS  [CT]      TGGTTCCGCCCT
94817 I           A  GACGGGCCCTCTTGACTCACTCTTGTTAGGAA
94817 P   C       A  ATGACGTGGCAGACCAGACCCCCTACAGCY
94817 P   T       A  CGCGCCGAGGTAGACCCCCTACAGCCY
94817 T   C       A  ATCAGGCTGTAGGGGGTCTGTCCTAACAAGAGTGAGTCAAGAGGGCCCGTCCT
94817 T   T       A  ATCAGGCTGTAGGGGGTCTATCCTAACAAGAGTGAGTCAAGAGGGCCCGTCCT

                   GGAGTTATTCACCCAGTCCAGGAGCACAGGACGGGCCCTCTTGACTCACTCTTGTTAGGA[CT]AGACCCCCTACAGCCTGATTTTACAATCAAAGCCTGAATTGTCAGCCC
94817 IS  [CT]      CCATCCCCGTC
94819 I           S  GCTTGTTCTGTTCTGTGTTCCTATTCATAGGATTTCAATAACT
94819 P   C       S  ATGACGTGGCAGACGAGAGTGACAGCTGACAY
94819 P   T       S  CGCGCCGAGGAAGAGTGACAGCTGACAY
94819 T   C       S  GAAATGTCAGCTGTCACTCTCGTTATTGAAATCCTATGAATAGGAACACAGAACAGAACAAGCCA
94819 T   T       S  GAAATGTCAGCTGTCACTCTTGTTATTGAAATCCTATGAATAGGAACACAGAACAGAACAAGCCA

                   TCTCTTGCTGGGATTATTAGGACAGACCTCTTAGCAAGAGAAATGTCAGCTGTCACTCT[CT]GTTATTGAAATCCTATGAATAGGAACACAGAACAGAACAAGCCAGT
94819 IS  [CT]      AAAATGTTATGGG
94821 I           S  GGGGGCTCCAGGAGGCTTCAATGGAATAAT
94821 P   T       S  CGCGCCGAGGAATATTCACACCACTCCCY
94821 P   C       S  ATGACGTGGCAGACGATATTCACACCACTCCCY
94821 T   T       S  CCTGGGGAGTGGTGTGAATATTTTATTCCATTGAAGCCTCCTGGAGCCCCCAG
94821 T   C       S  CCTGGGGAGTGGTGTGAATATCTTATTCCATTGAAGCCTCCTGGAGCCCCCAG

                   GTCACAGATCATGTGTGTGCGCACACGTGCTCAGAGCCCTGGGGAGTGGTGTGAATAT[TC]TTATTCCATTGAAGCCTCCTGGAGCCCCAGGCCTCTGGAGGTTTCC
94821 IS  [TC]      TGGGCCCACATT
94822 I           S  CGGGGCTACAAGGCCAGGTGGT
94822 P   C       S  ATGACGTGGCAGACGCCTAAAGGTCACGTY
94822 P   T       S  CGCGCCGAGGACCCTAAAGGTCACGTY
94822 T   C       S  ACCCACGTGACCTTTAGGGCCCACCTGGCCTTGTAGCCCCCGTT
94822 T   T       S  ACCCACGTGACCTTTAGGGTCCACCTGGCCTTGTAGCCCCCGTT

                   TCACCCCGCAGGGTCCACTGGGCAGGATAGGCGTGGGCATTGACCCACGTGACCTTTAGGG[CT]CCCACCTGGCCTTGTAGCCCCCGTTGTTTGTGATCTTTCTAATCCAAGA
94822 IS  [CT]      CTCGGCCTGCTG
94826 I           A  GGAACTCCAGCCACTCCCAAGGCTAGAAGTTAT
94826 P   A       A  CGCGCCGAGGAGTTTTCTACACACCCTTCY
94826 P   C       A  ATGACGTGGCAGACGTTTTCTACACACCCTTY
94826 T   A       A  GATGGAAGGGTGTGTAGAAAACTTAACTTCTAGCCTTGGGAGTGGCTGGAGTTCCAG
94826 T   C       A  GATGGAAGGGTGTGTAGAAAACGTAACTTCTAGCCTTGGGAGTGGCTGGAGTTCCAG

                   CTTCAGTGTGGTCTGGGAAGTCCTCTCTGGAACTCCAGCCACTCCCAAGGCTAGAAGTTAAJAG]GTTTCTACACACCCTTCCATCCCCTCCCTCCTTGGGCTCATGTCTGAC
94826 IS  [AC]      CTTGAATCTGG
94828 I           A  CACCACCCCTCTAGACGTGGCAAAGACAAGAATTAA
94828 P   T       A  CGCGCCGAGGTGCTGGCAAAGGTAAGY
94828 P   C       A  ATGACGTGGCAGACCGCTGGCAAAGTAAGY
94828 T   T       A  ACCACTTACCTTGCCAGCATAATTCTTGTCTTTGCCACGTCTAGAGGGGTGGTGAC
94828 T   C       A  ACCACTTACCTTGCCAGCGTAATTCTTGTCTTTGCCACGTCTAGAGGGGTGGTGAC

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94828 IS  [TC]      TGCTCATATCTGTT
94829 I           A  GGTTTCCTGACATTGCCACGGTAGCCACAGT
94829 P   G       A  ATGACGTGGCAGACGTAATGAAGAGCAGGGCY
94829 P   A       A  CGCGCCGAGGATAATGAAGAGCAGGGCTY
94829 T   G       A  CCCCAGCCCTGCTCTTCATTACCTGTGGCTACCGTGGCAATGTCAGGAAACCAC
94829 T   A       A  CCCCAGCCCTGCTCTTCATTATCTGTGGCTACCGTGGCAATGTCAGGAAACCAC

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94829 IS  [GA]      TCAACACCGACACC
94832 I           A  CTGAAGTCCCTCAGTCCCTCTCCCAGGA
94832 P   T       A  CGCGCCGAGGTCAAGTTTCTGCAGCTCY
94832 P   C       A  ATGACGTGGCAGACCCAAGTTTCTGCAGCTCY
94832 T   T       A  GTTGGAGCTGCAGAAACTTGACCTGGCAGAGGGACTGAGGGACTCTCAGTA
94832 T   C       A  GTTGGAGCTGCAGAAACTTGGCCTGGCAGAGGGACTGAGGGACTCTCAGTA

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94832 IS  [TC]      ACCATCTACCT
94834 I           S  CAGCTACGCAGCCAGGCCTCTCACT
94834 P   C       S  ATGACGTGGCAGACGGGTGTCGCAGTCCT
94834 P   T       S  CGCGCCGAGGAGGTGTCGCAGTCCY
94834 T   C       S  CCTGGGACTGCGACACCCGTGAGAGGCCTGGCTGCGTAGCTGGG
94834 T   T       S  CCTGGGACTGCGACACCTGTGAGAGGCCTGGCTGCGTAGCTGGG

                   TTTTCCCCCACCAGTGGGTCACCCCTGATGAGGAACCTCAGAGCCCTGGGACTGCGACACC[CT]GTGAGAGGCCTGGCTGCGTAGCTGGCCCCTCCTTCATGGCTGCTCCT
94834 IS  [CT]      GTTCCCTGGCAG
94836 I           A  TGCTGCAGGAGCCCCCAGGCC
94836 P   G       A  ATGACGTGGCAGACGAGGTTCGGCCTTCCY
94836 P   T       A  CGCGCCGAGGTAGGTTCGGCCTTCCY
94836 T   G       A  GAGAGGAAGGCCGAACCTGGCCTGGGGGCTCCTGCAGCAGC
94836 T   T       A  GAGAGCAAGGCCGAACCTAGCCTGGGGGCTCCTGCAGCAGC

                   TTCTGTGTTTAGTTCCACACGGCCCAGTGCTGCCCCTGCTGCTGCAGGAGCCCCCAGGC[GT]AGGTTCGGCCTTCCTCTGGCCCCTGTGCACCCGGAGATGCCCACAGCAC
94836 IS  [GT]      CAGCACCTGAG
94838 I           A  ACTGATGATGGTGGCCTTCACCTGGGGT
94838 P   G       A  ATGACGTGGCAGACGGGATTCATGTGCACGY
94838 P   A       A  CGCGCCGAGGAGGATTCATGTGCACGY
94838 T   G       A  TGACGTGCACATGAATCCCCCCAGGTGAAGGCCACCATCATCAGTGA
94838 T   A       A  TGACGTGCACATGAATCCTCCCCAGGTGAAGGCCACCATCATCAGTGA

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94838 IS  [GA]      GCTGCAAACTTG                                                                                                  STATSA
94839 I           S  GGGGAACGGGAGCTGTGTCTTGGGGT
94839 P   G       S  ATGACGTGGCAGACCCTGGCGTCTGTGAY
94839 P   T       S  CGCGCCGAGGACTGGCGTCTGTGAGY
94839 T   G       S  TCTCCTCACAGACGCCAGGCCCCAAGACACAGCTCCCGTTCCCCCA
94839 T   T       S  TCTCCTCACAGACGCCAGTCCCCAAGACACAGCTCCCGTTCCCCCA
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FIGURE 129C

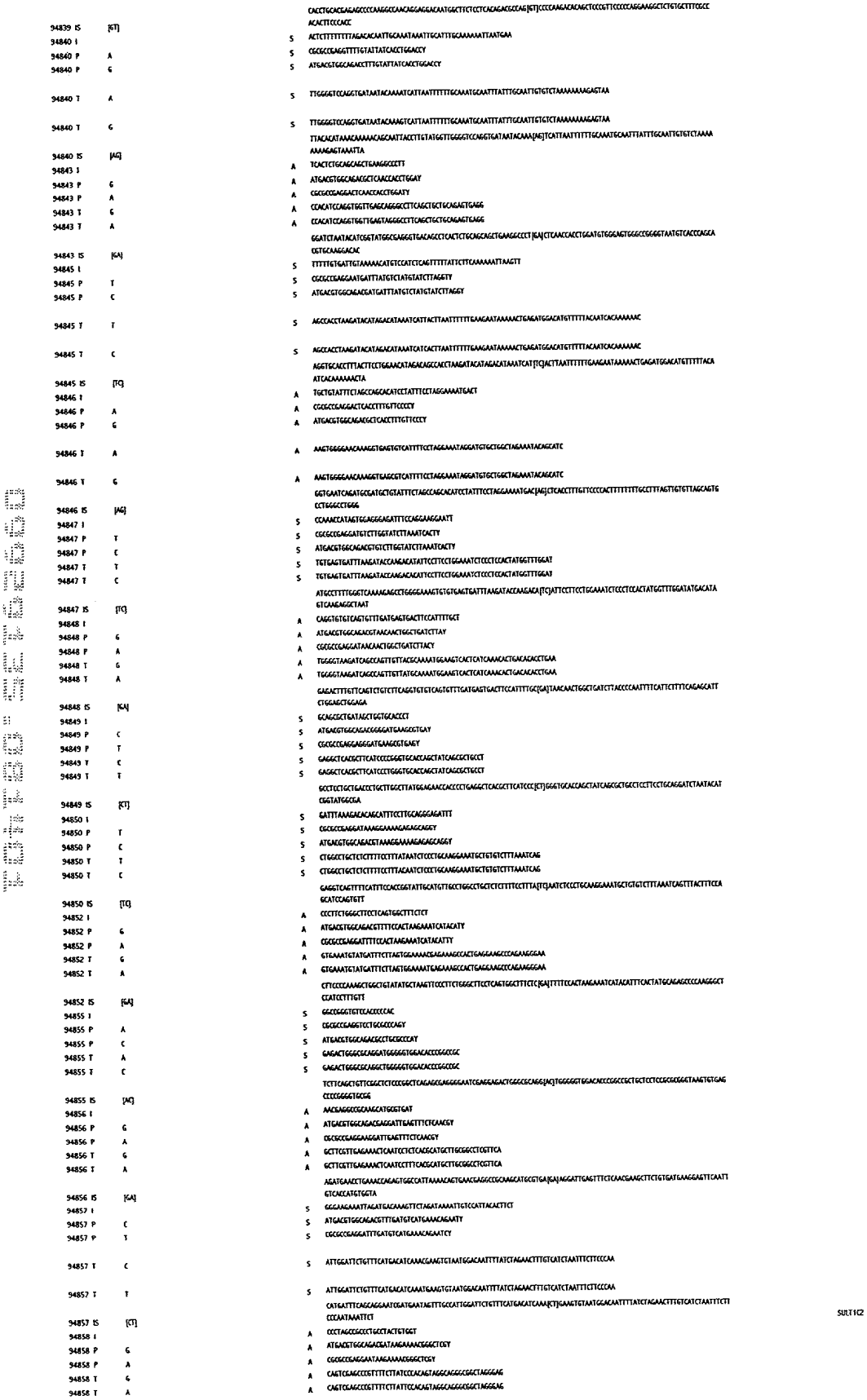


FIGURE 129C

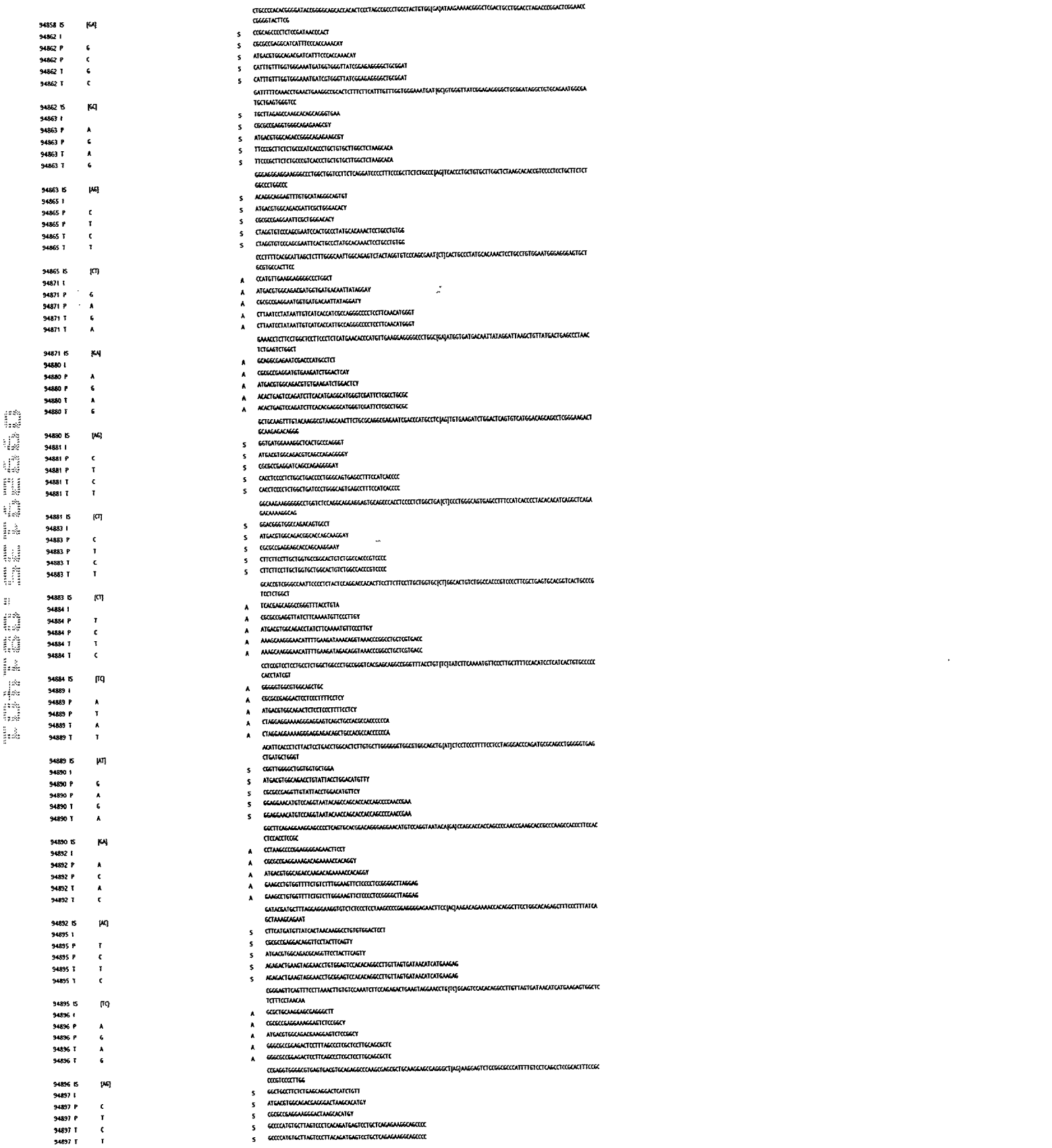
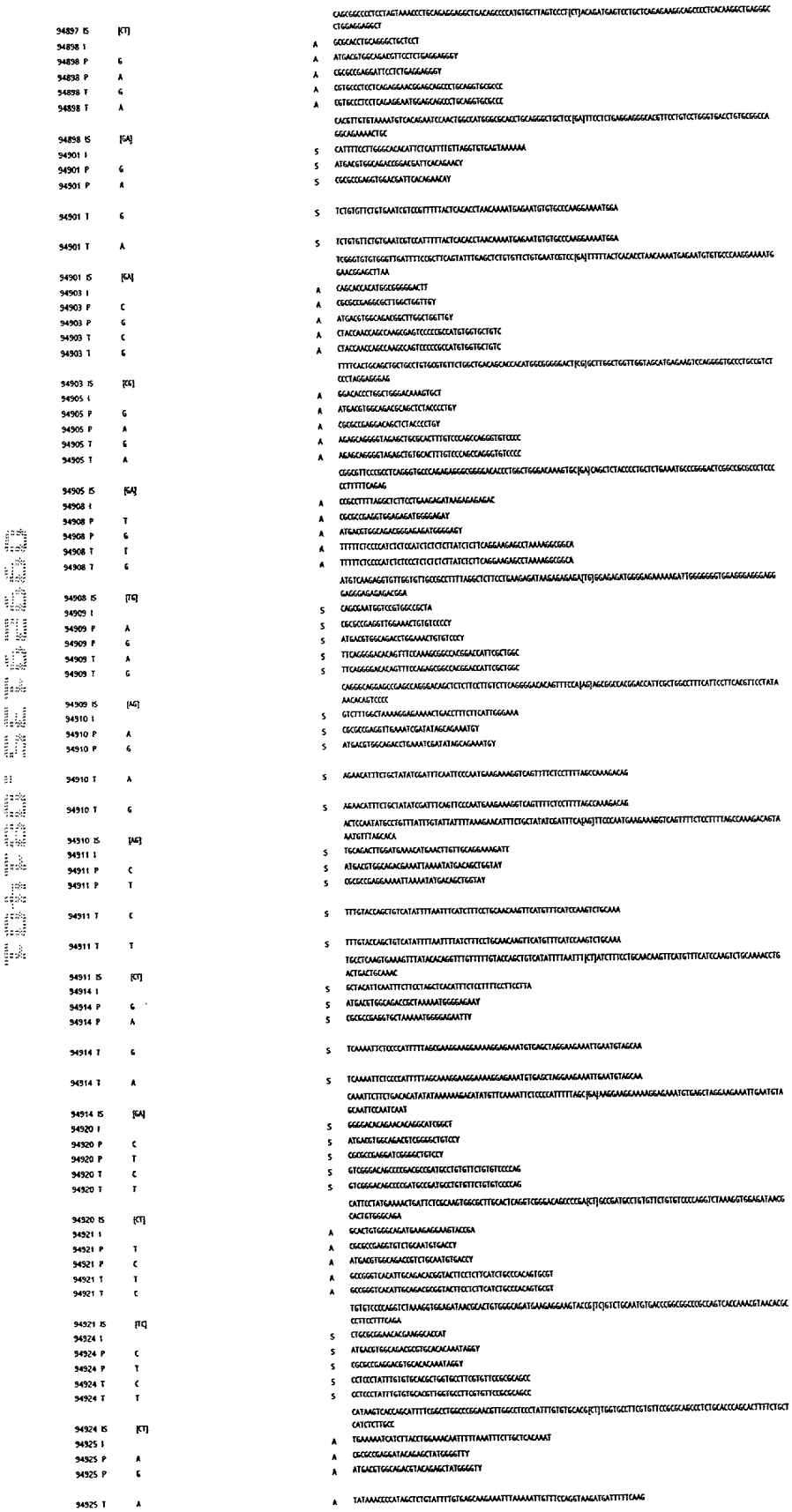


FIGURE 129C



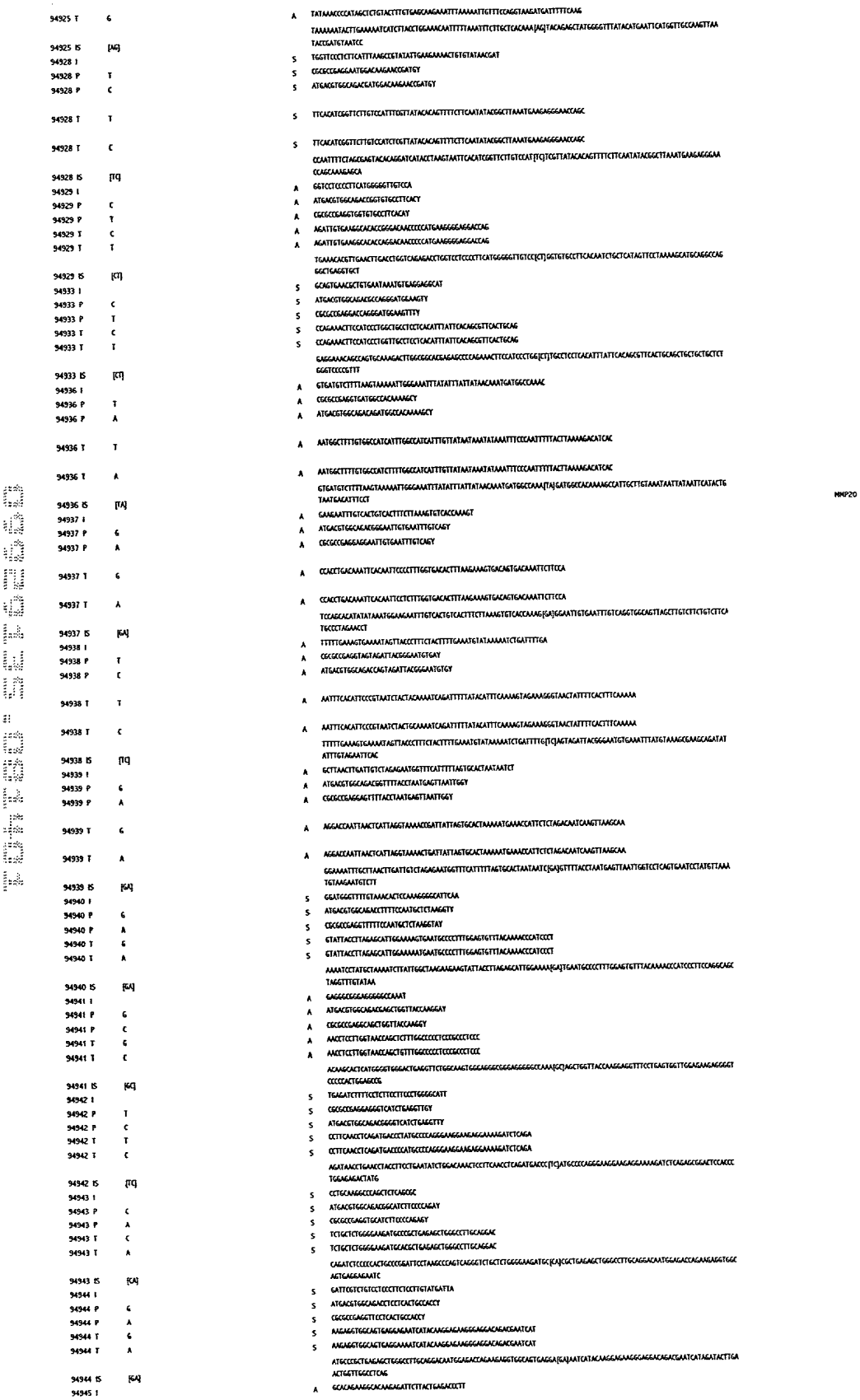


FIGURE 129C

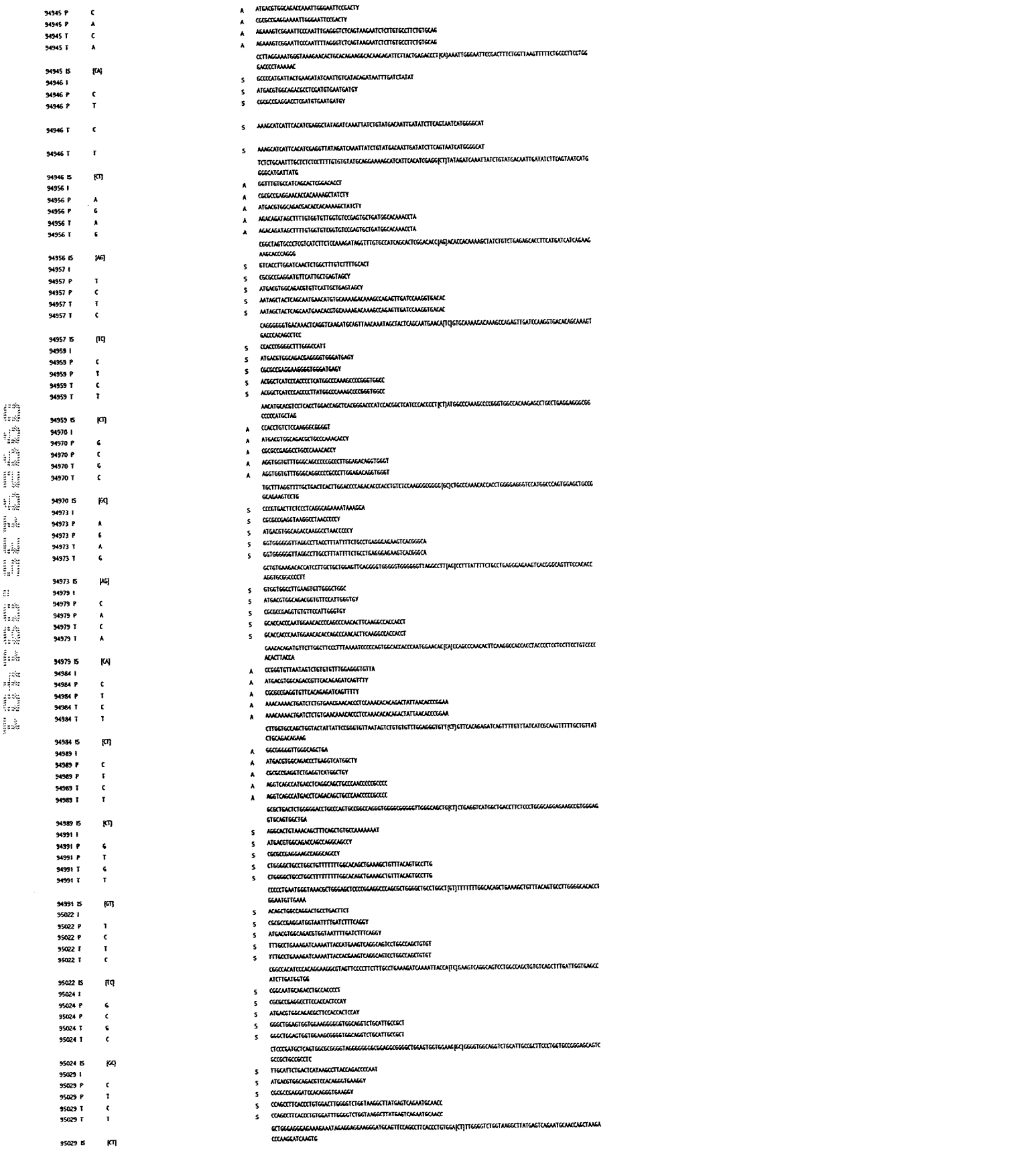


FIGURE 129C

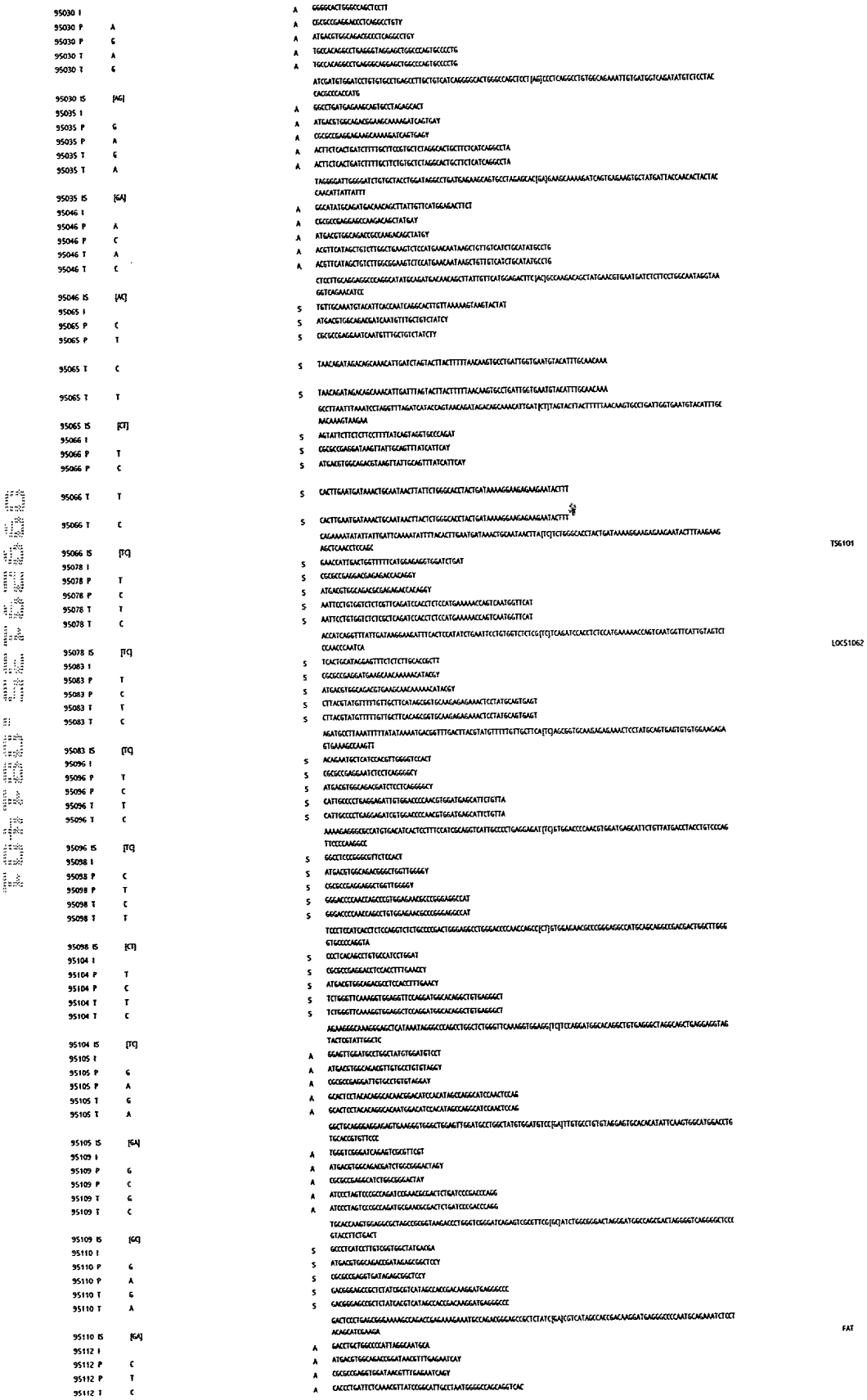


FIGURE 129C

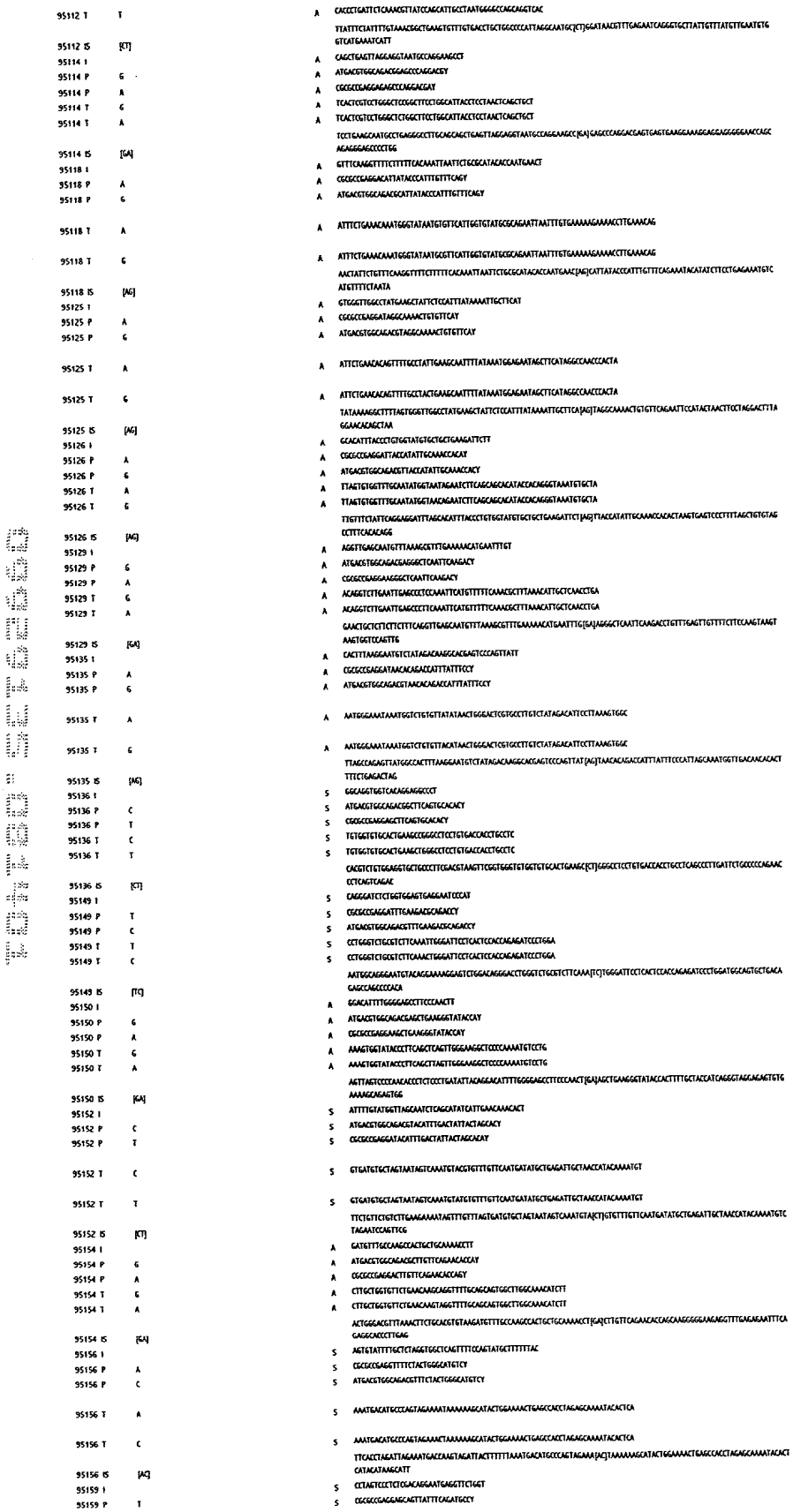


FIGURE 129C

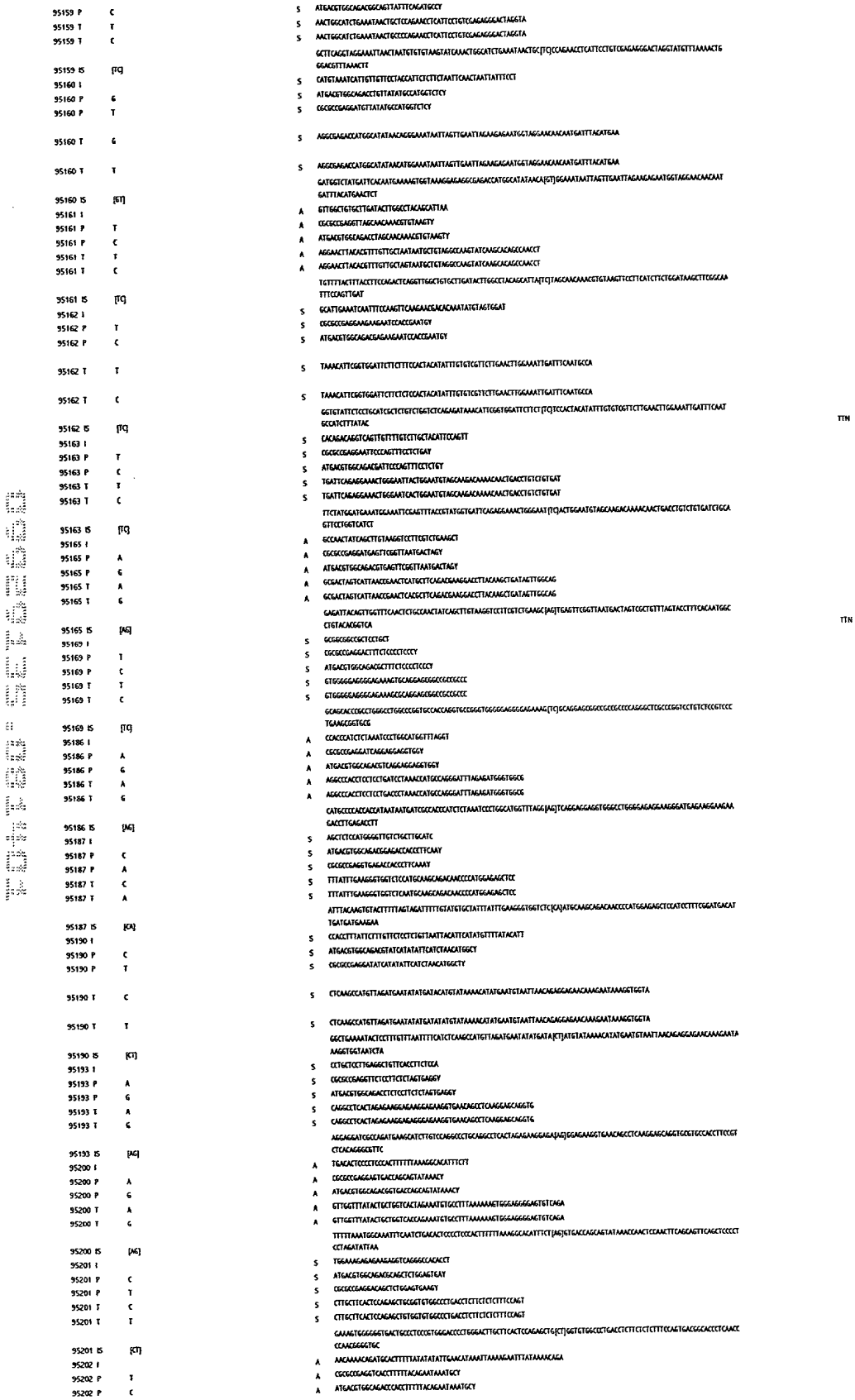
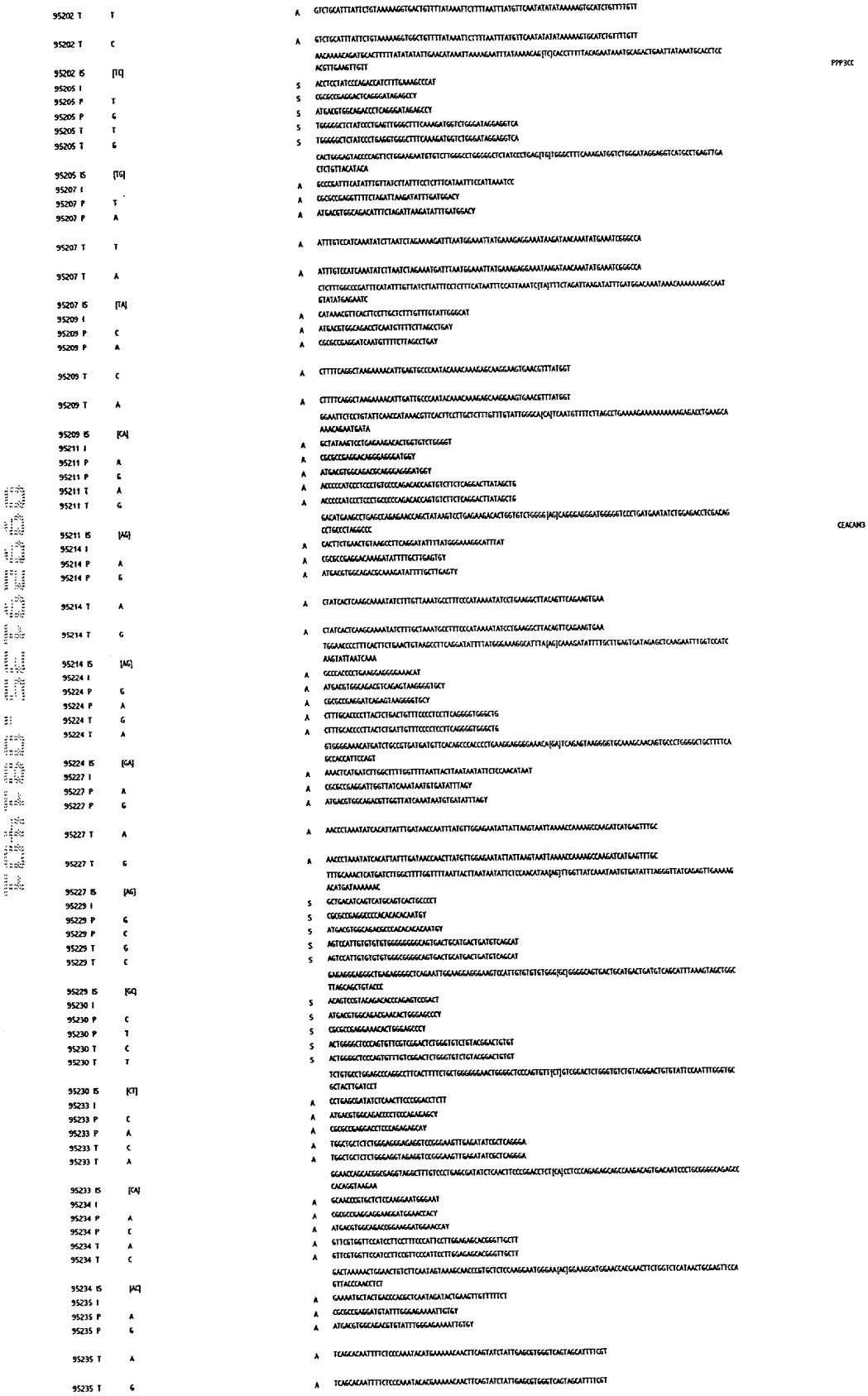
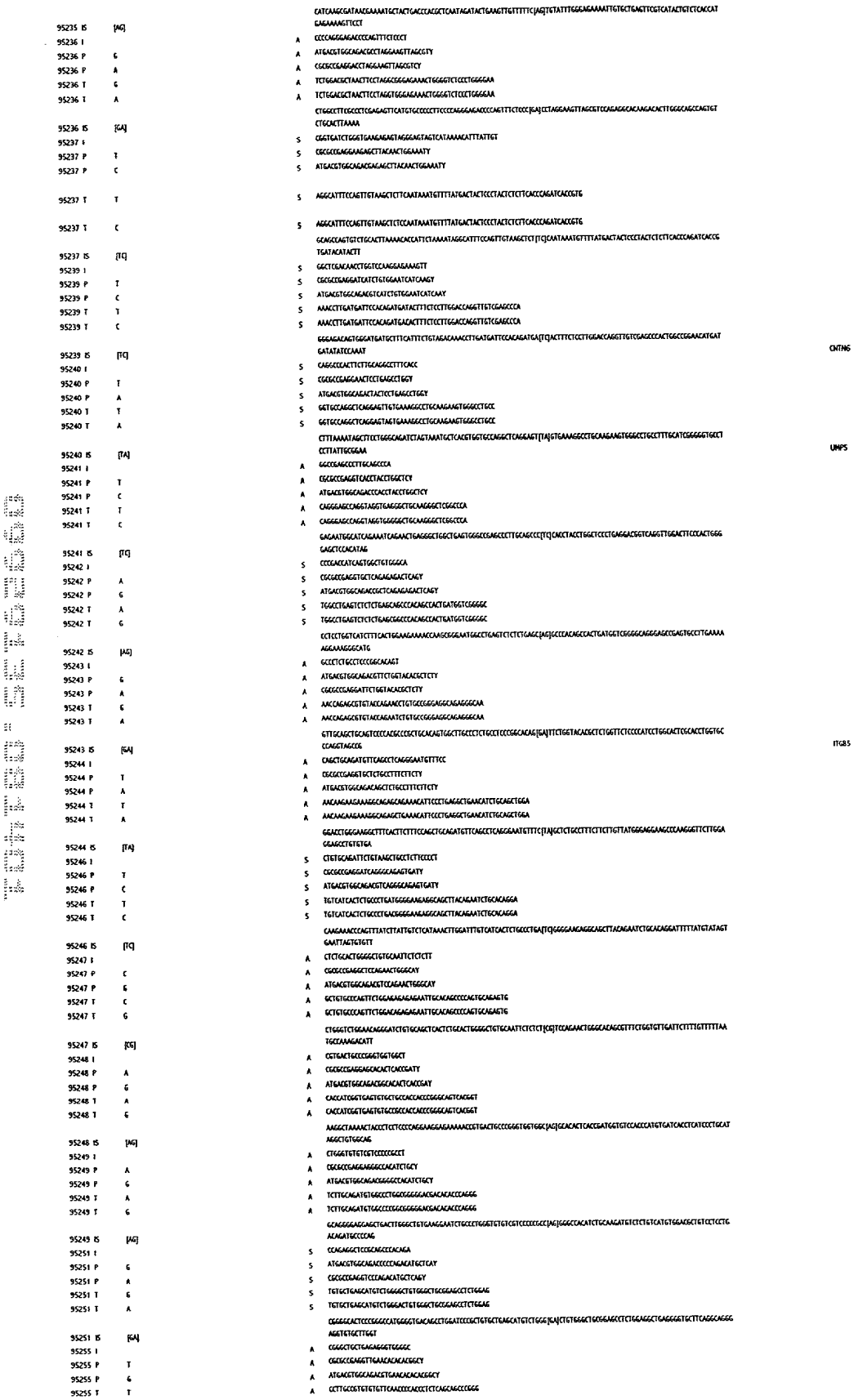


FIGURE 129C


95202 T T
95202 T C
95202 IS [TC]
95205 I
95205 P T
95205 P G
95205 T T
95205 T G
95205 IS [TG]
95207 I
95207 P T
95207 P A
95207 T T
95207 T A
95207 IS [TA]
95209 I
95209 P C
95209 P A
95209 T C
95209 T A
95209 IS [CA]
95211 I
95211 P A
95211 P G
95211 T A
95211 T G
95211 IS [AG]
95214 I
95214 P A
95214 P G
95214 T A
95214 T G
95214 IS [AG]
95224 I
95224 P G
95224 P A
95224 T G
95224 T A
95224 IS [GA]
95227 I
95227 P A
95227 P G
95227 T A
95227 T G
95227 IS [AG]
95229 I
95229 P G
95229 P C
95229 T G
95229 T C
95229 IS [GC]
95230 I
95230 P C
95230 P T
95230 T C
95230 T T
95230 IS [CT]
95233 I
95233 P C
95233 P A
95233 T C
95233 T A
95233 IS [CA]
95234 I
95234 P A
95234 P C
95234 T A
95234 T C
95234 IS [AC]
95235 I
95235 P A
95235 P G
95235 T A
95235 T G
PPP3CC
CEACAM3



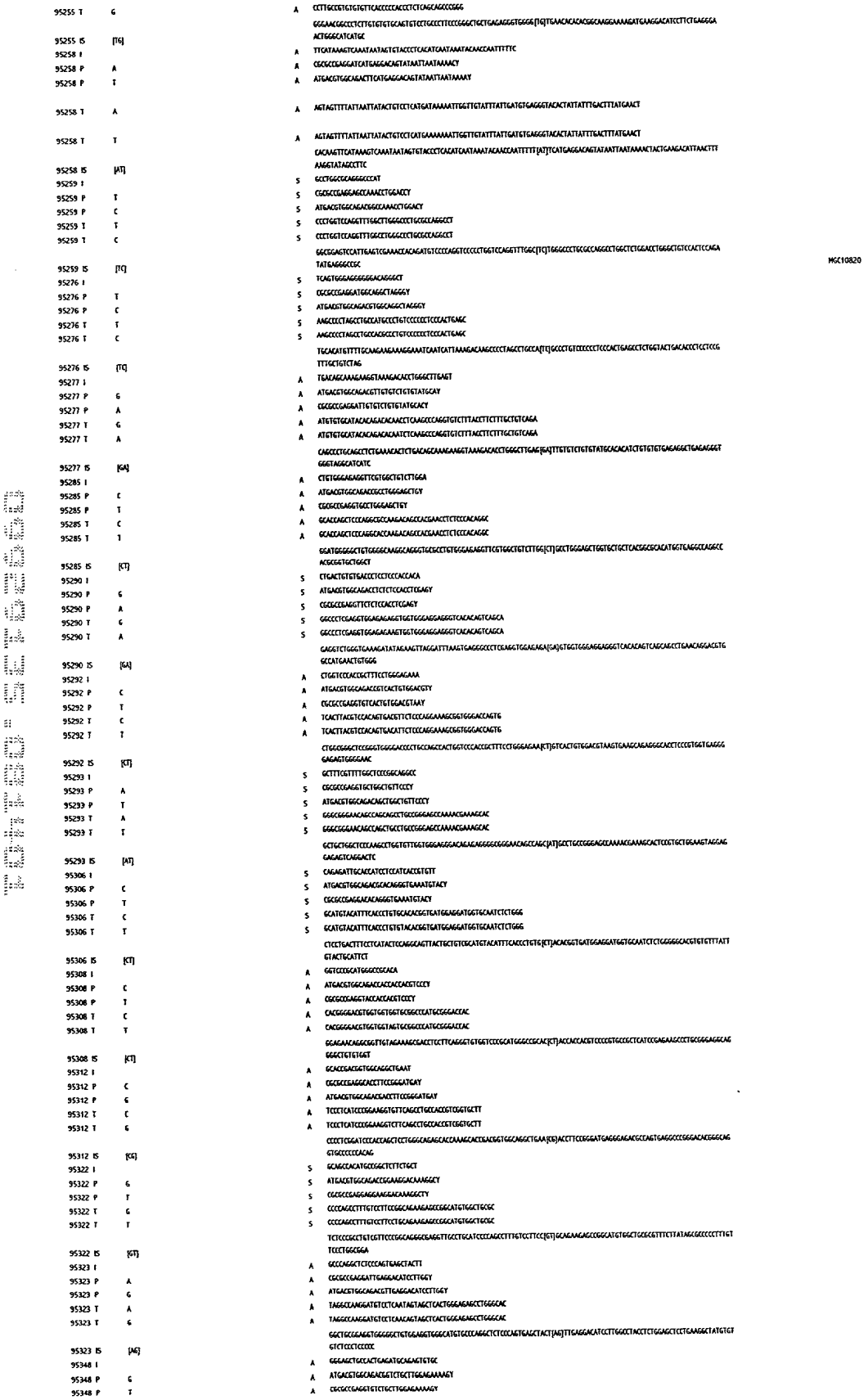
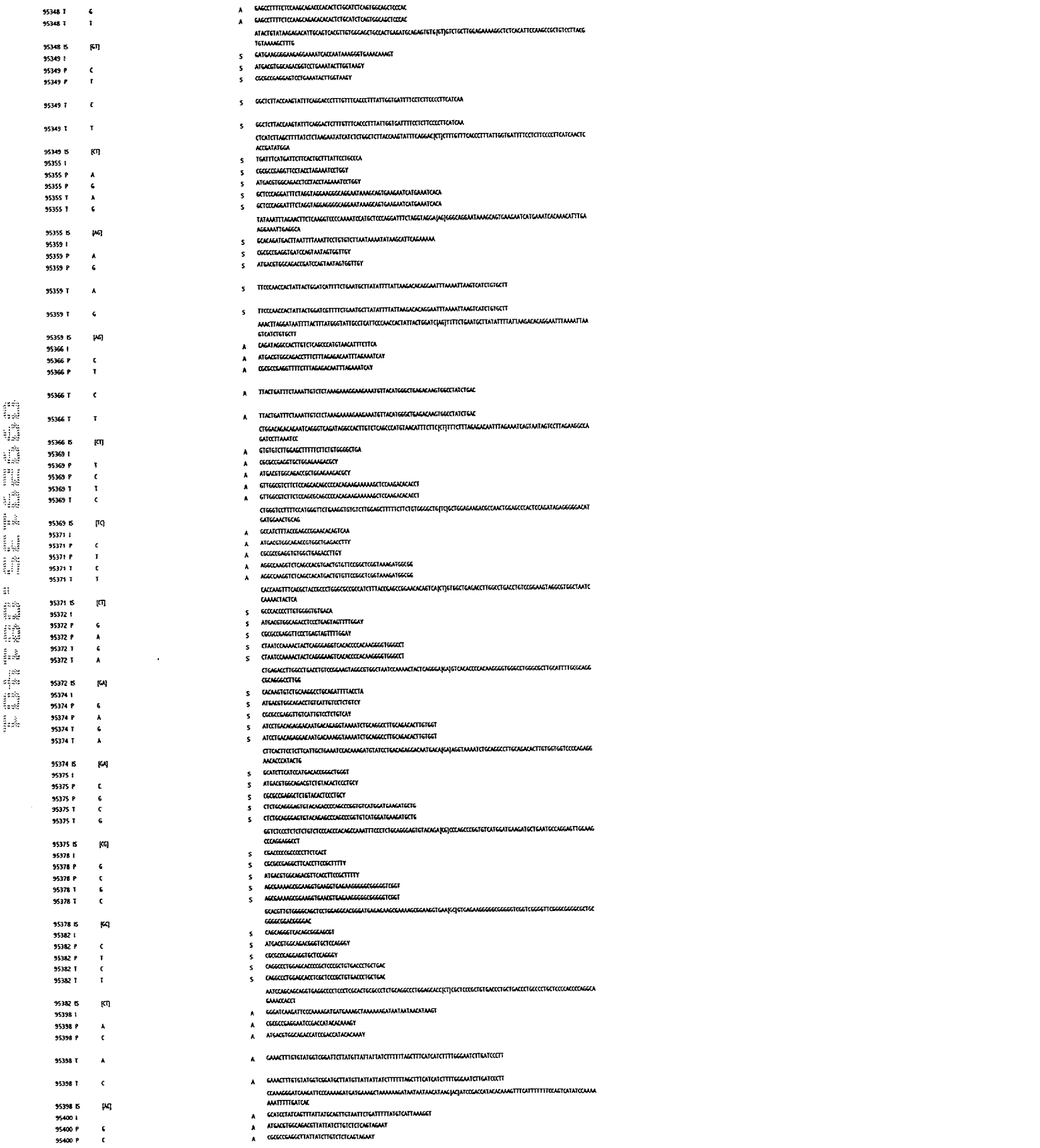

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FIGURE 129C



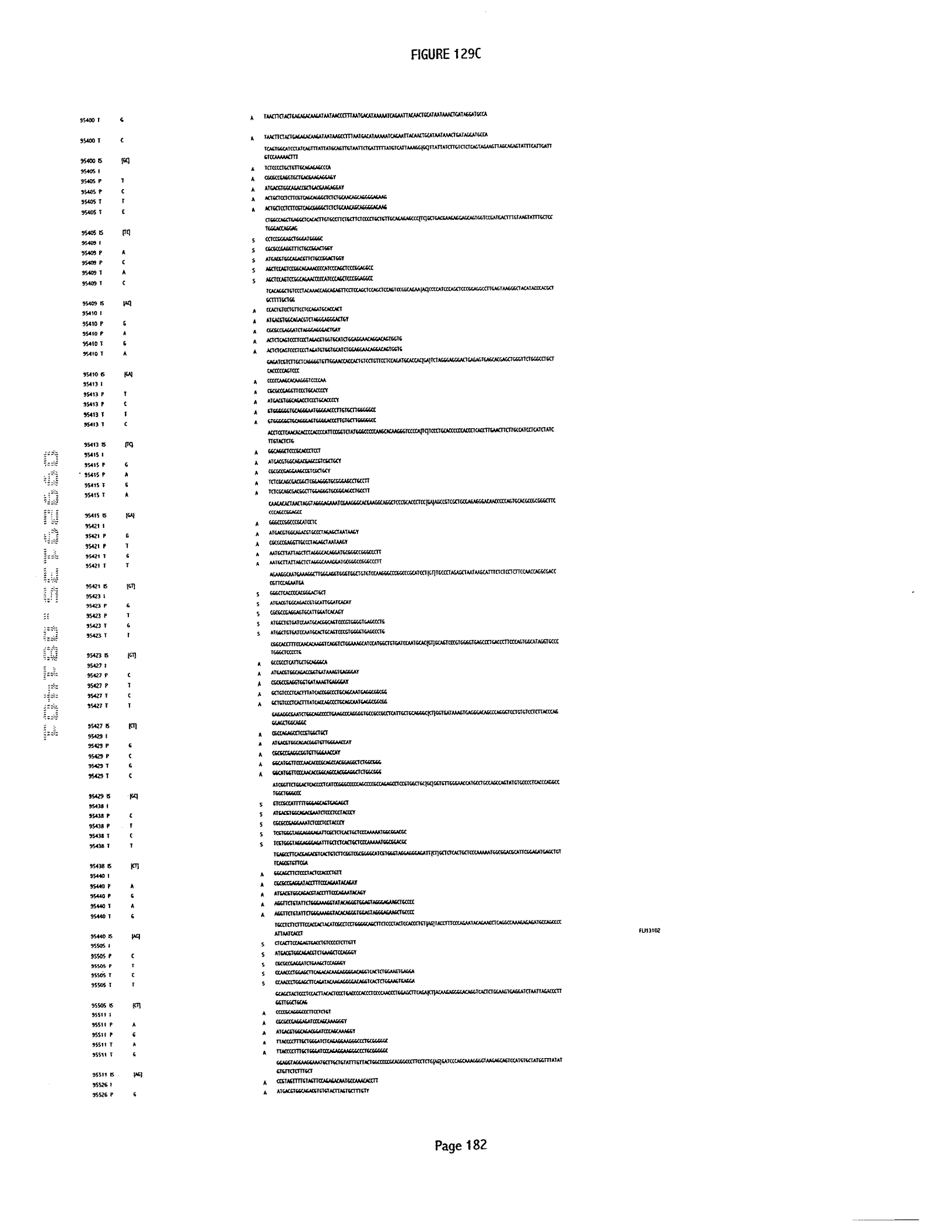
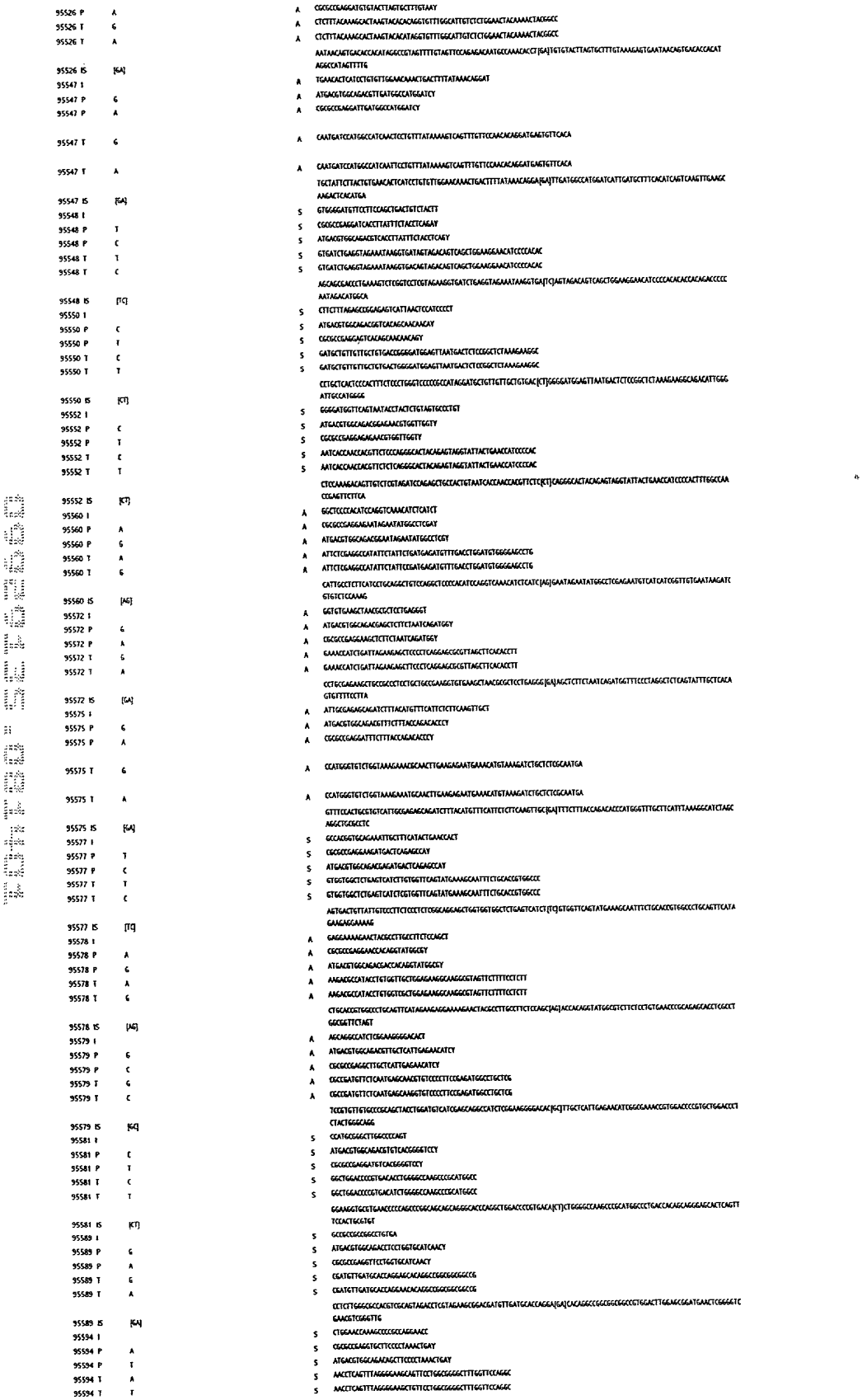


FIGURE 129C



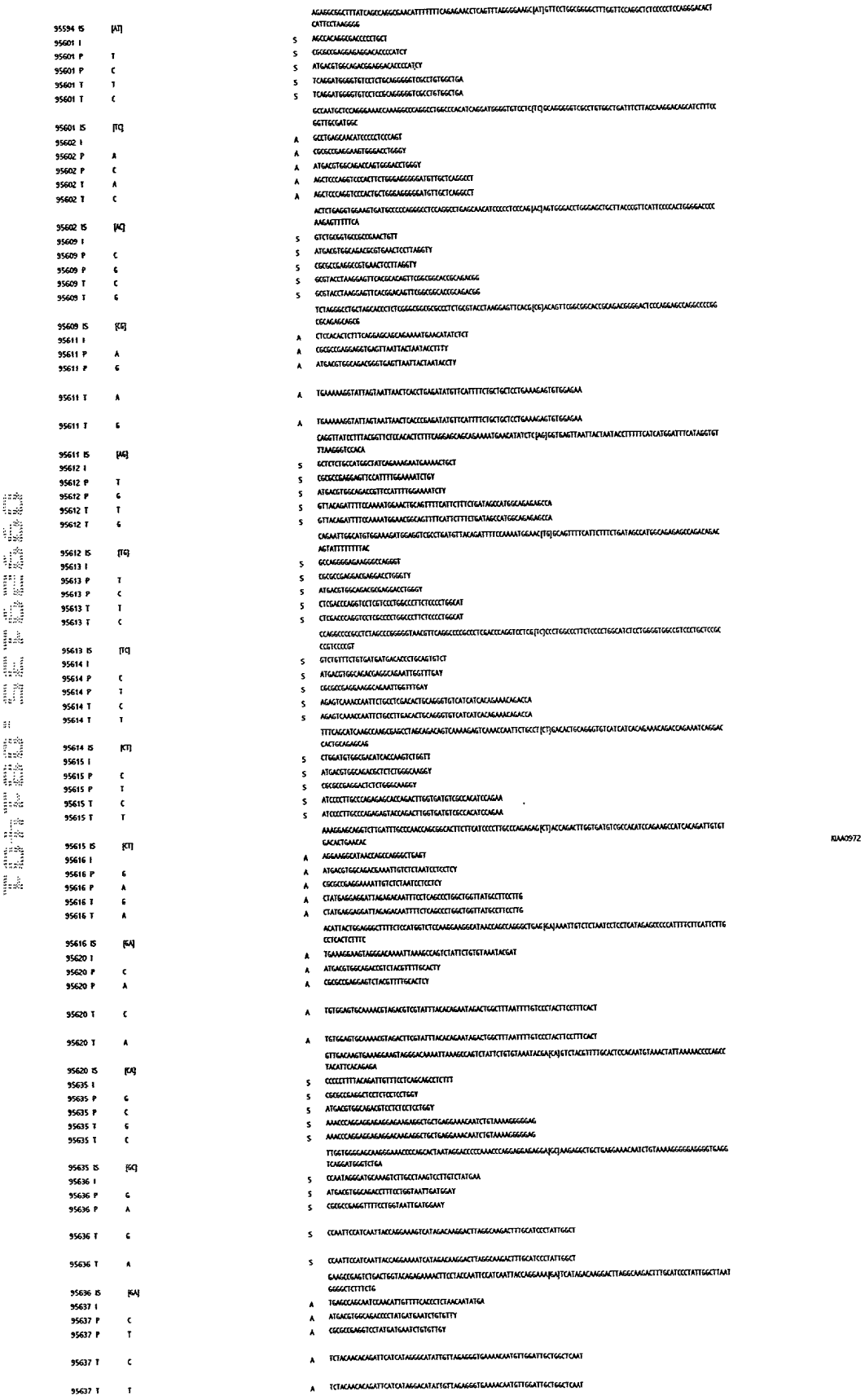


FIGURE 129C

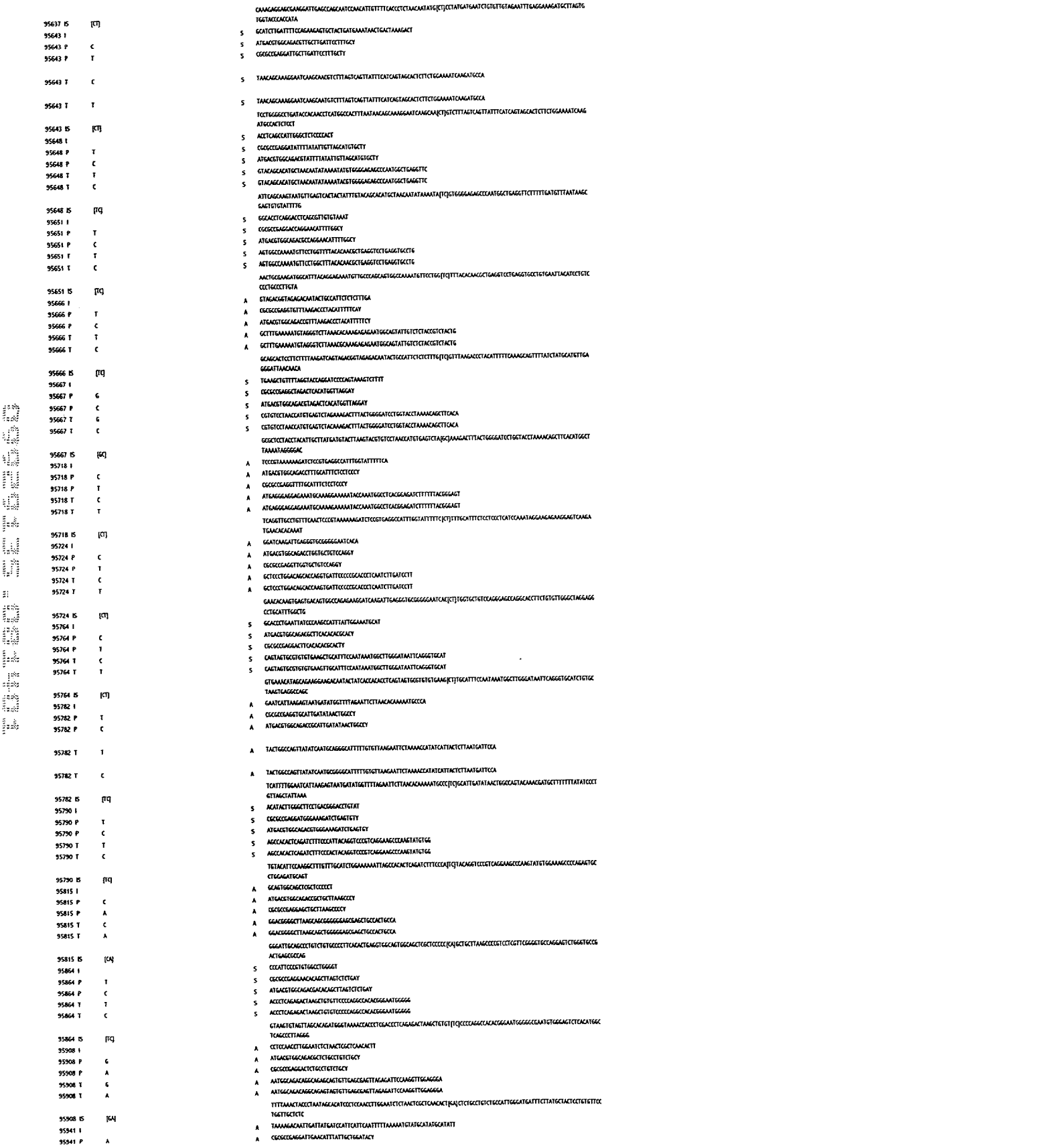
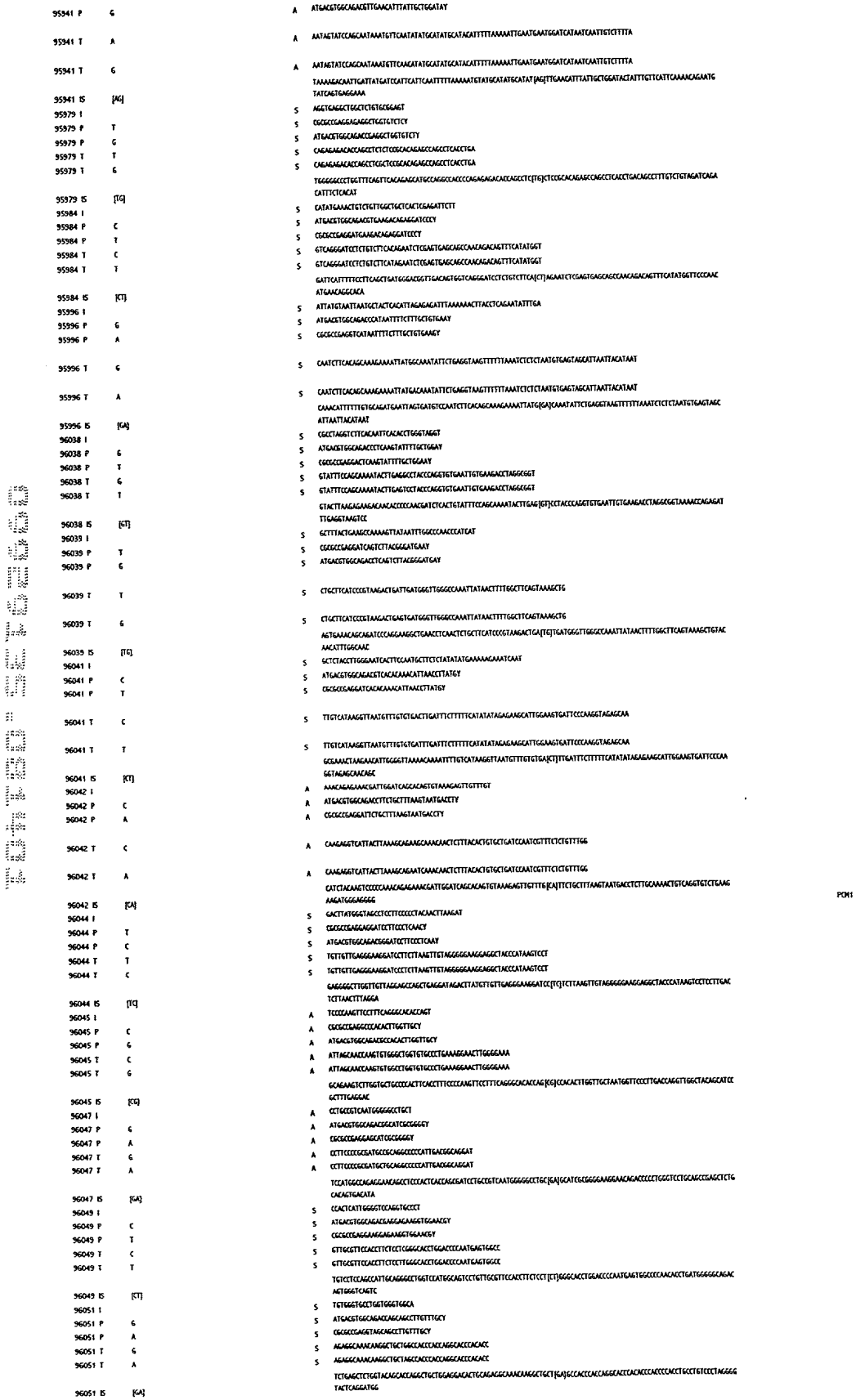


FIGURE 129C



PCR1

FIGURE 129C

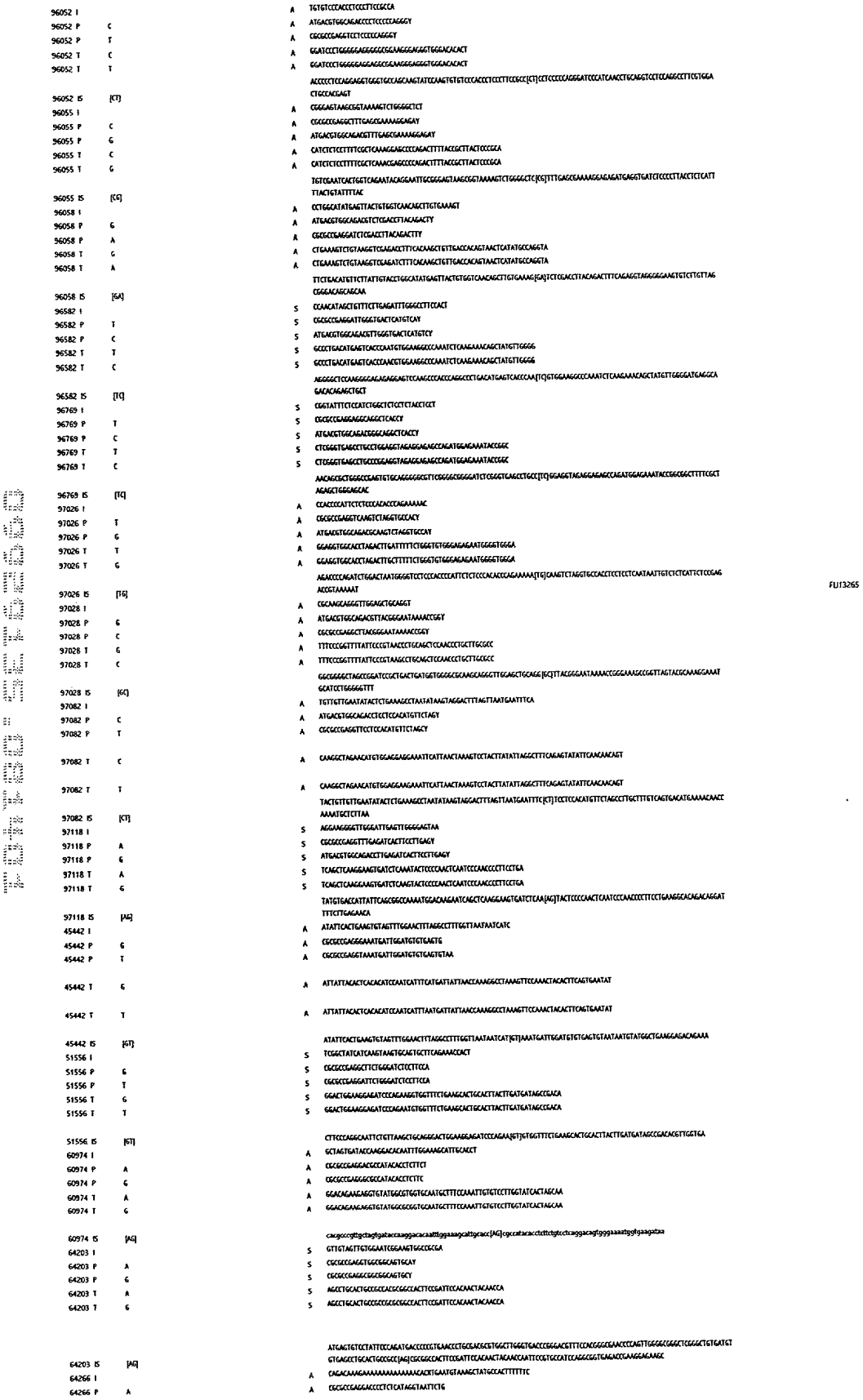
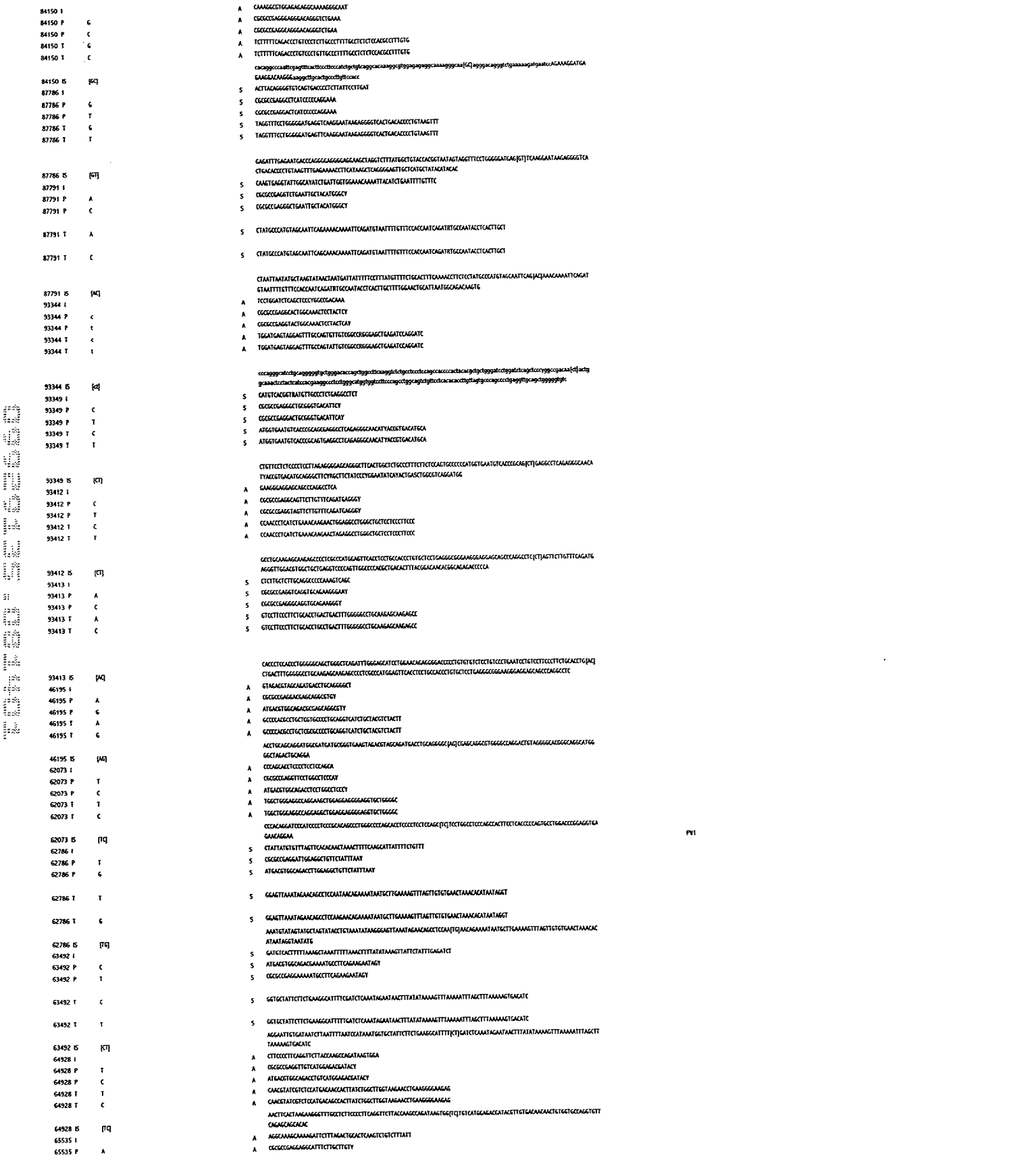


FIGURE 129C



FIGURE 129C



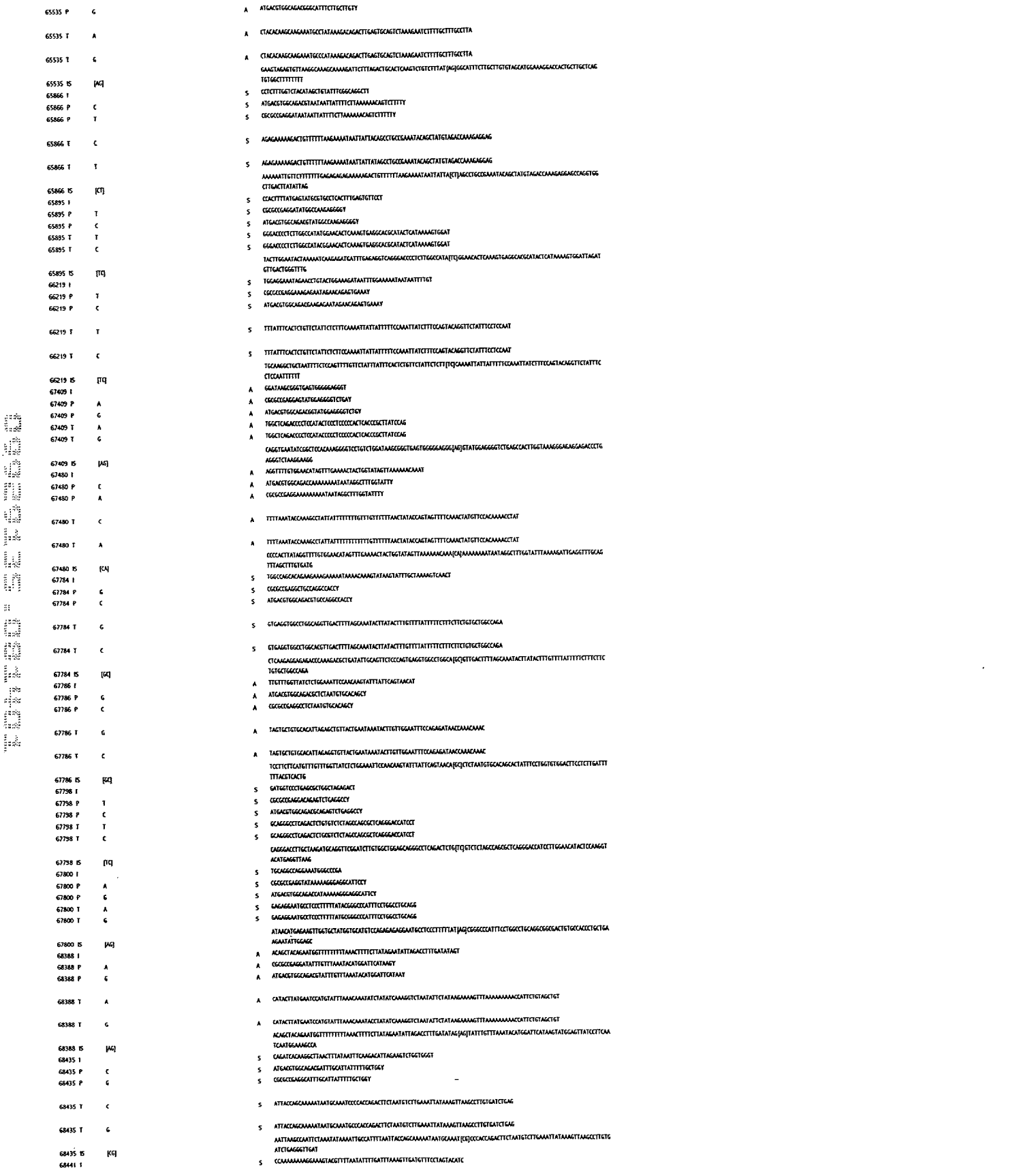


FIGURE 129C

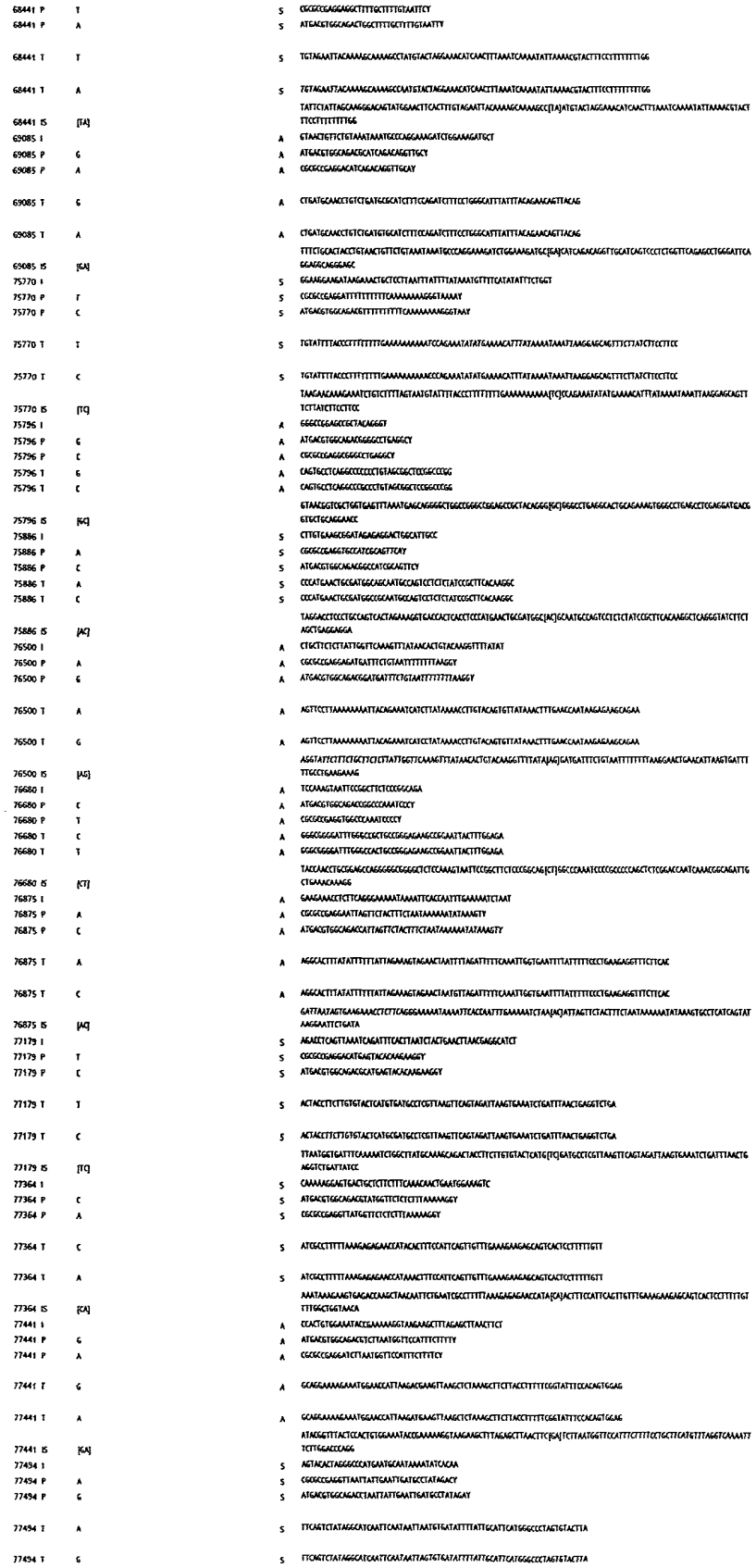


FIGURE 129C

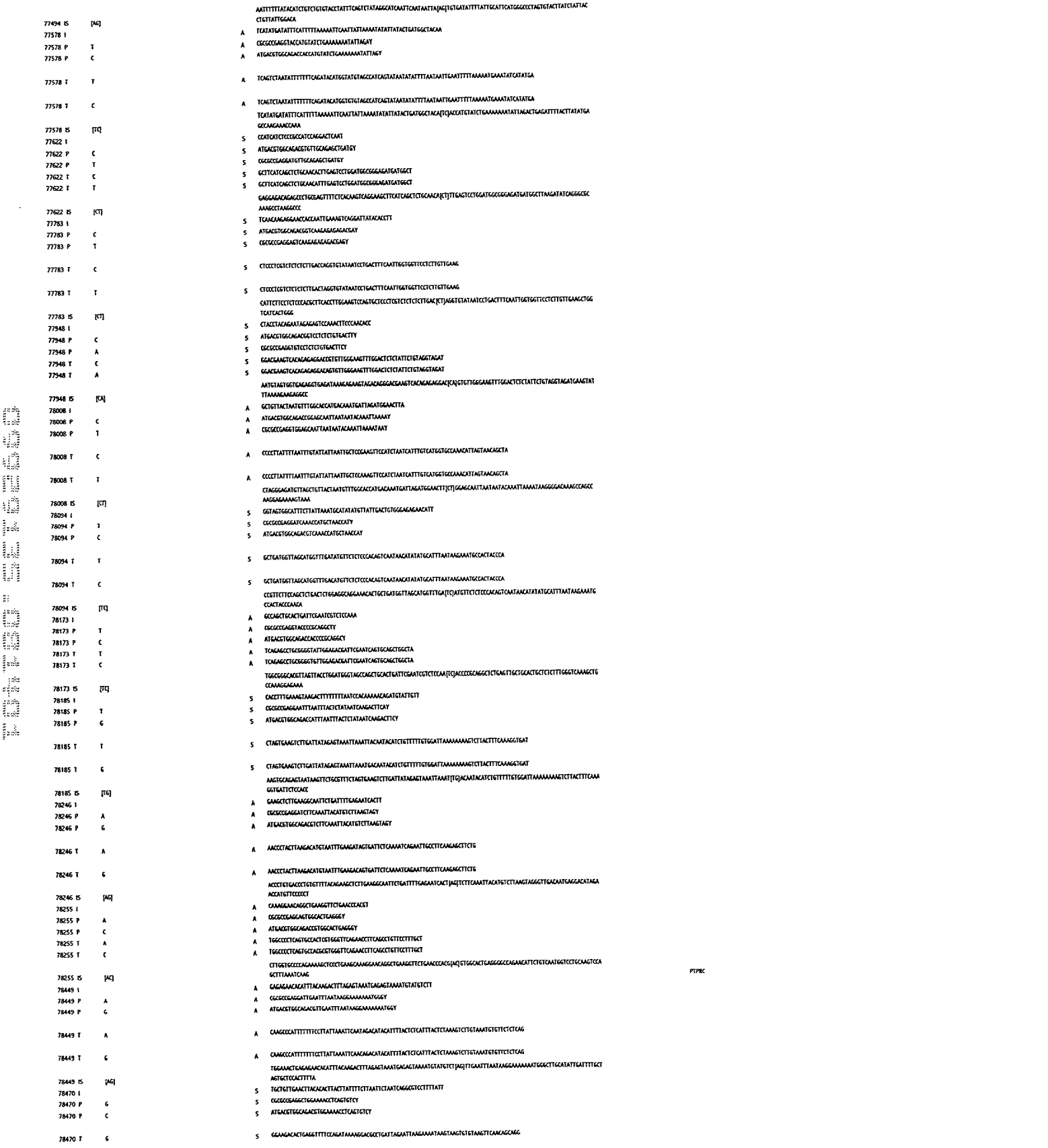


FIGURE 129C

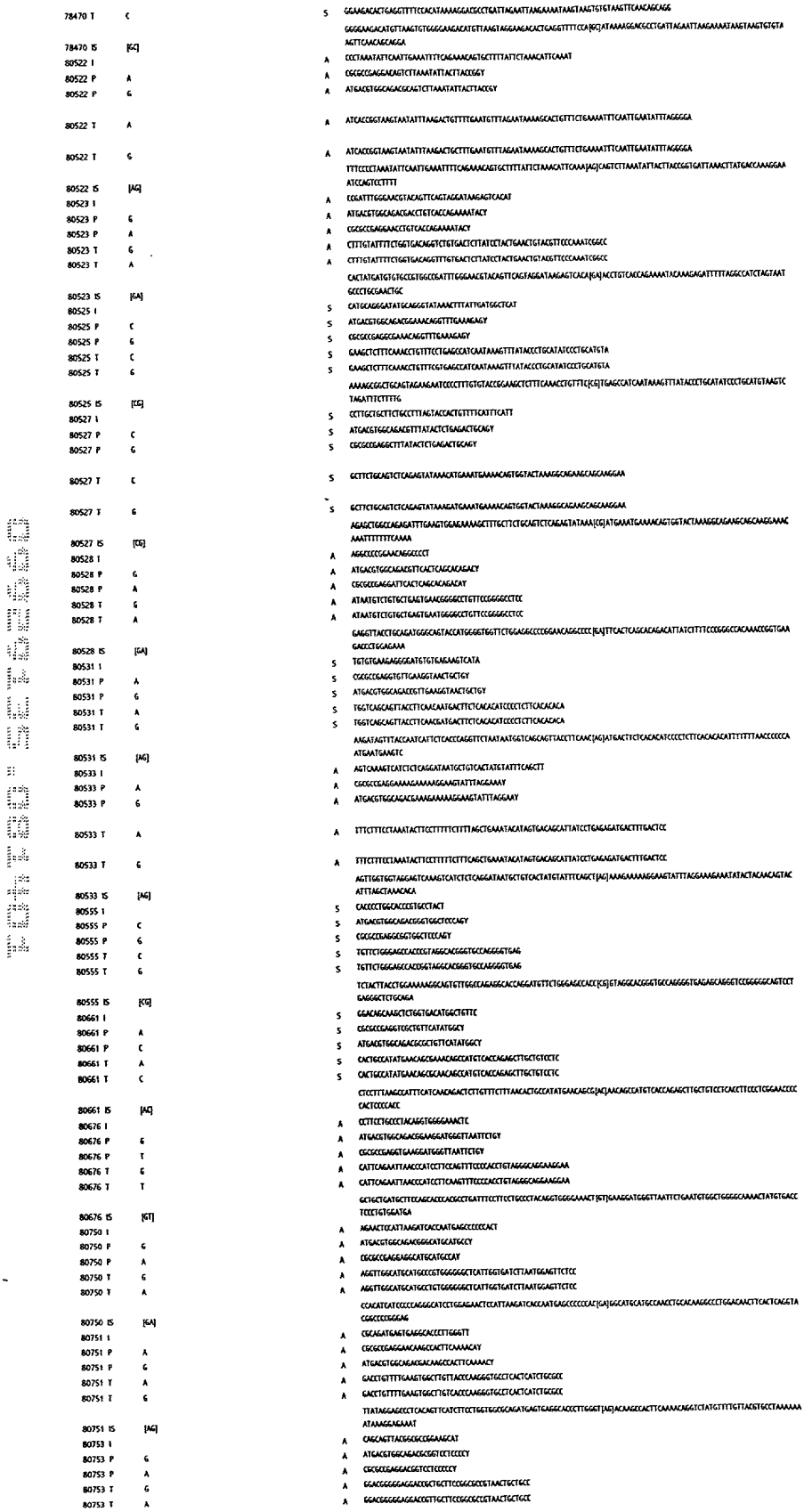


FIGURE 129C

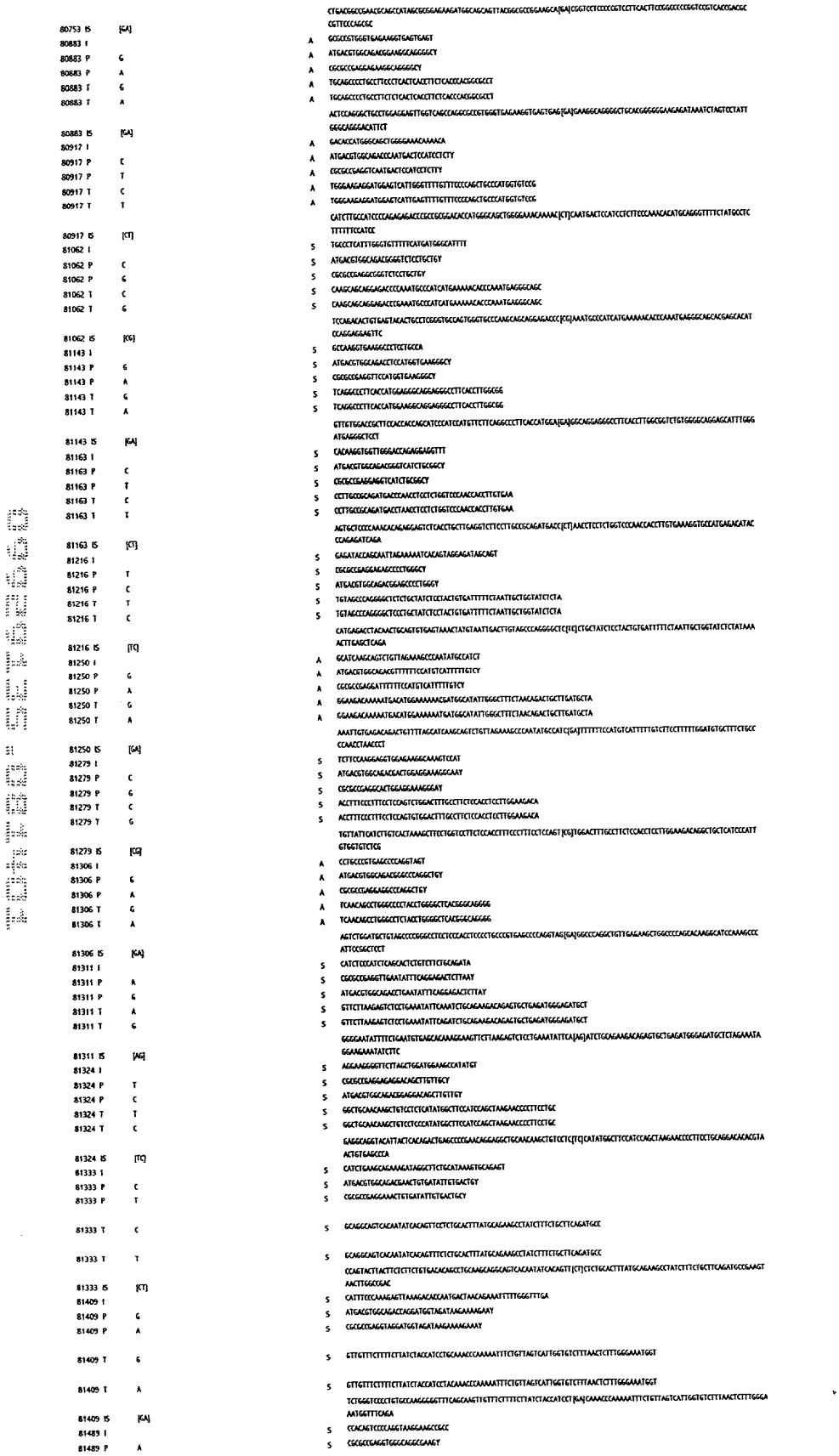


FIGURE 129C

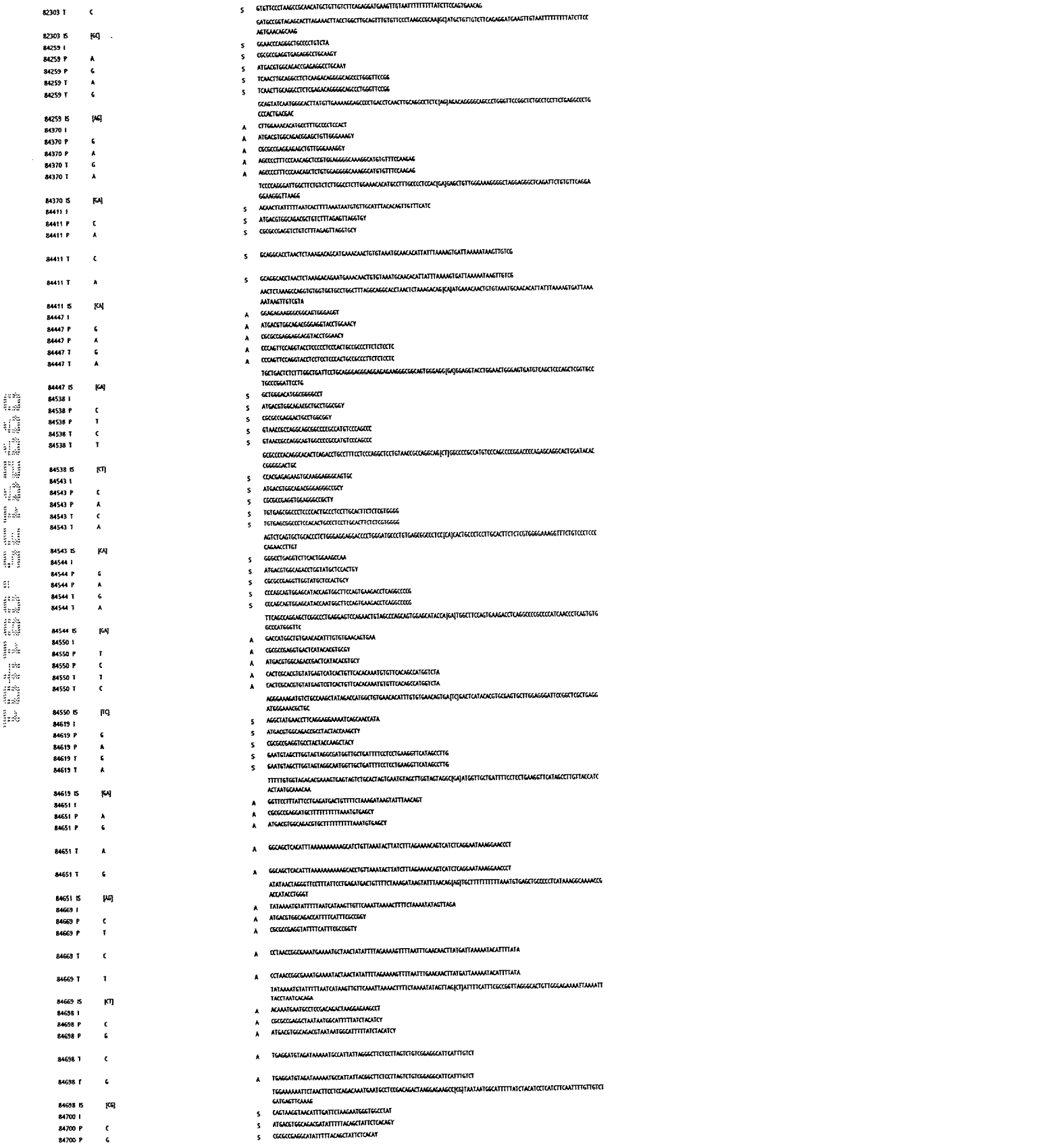


FIGURE 129C

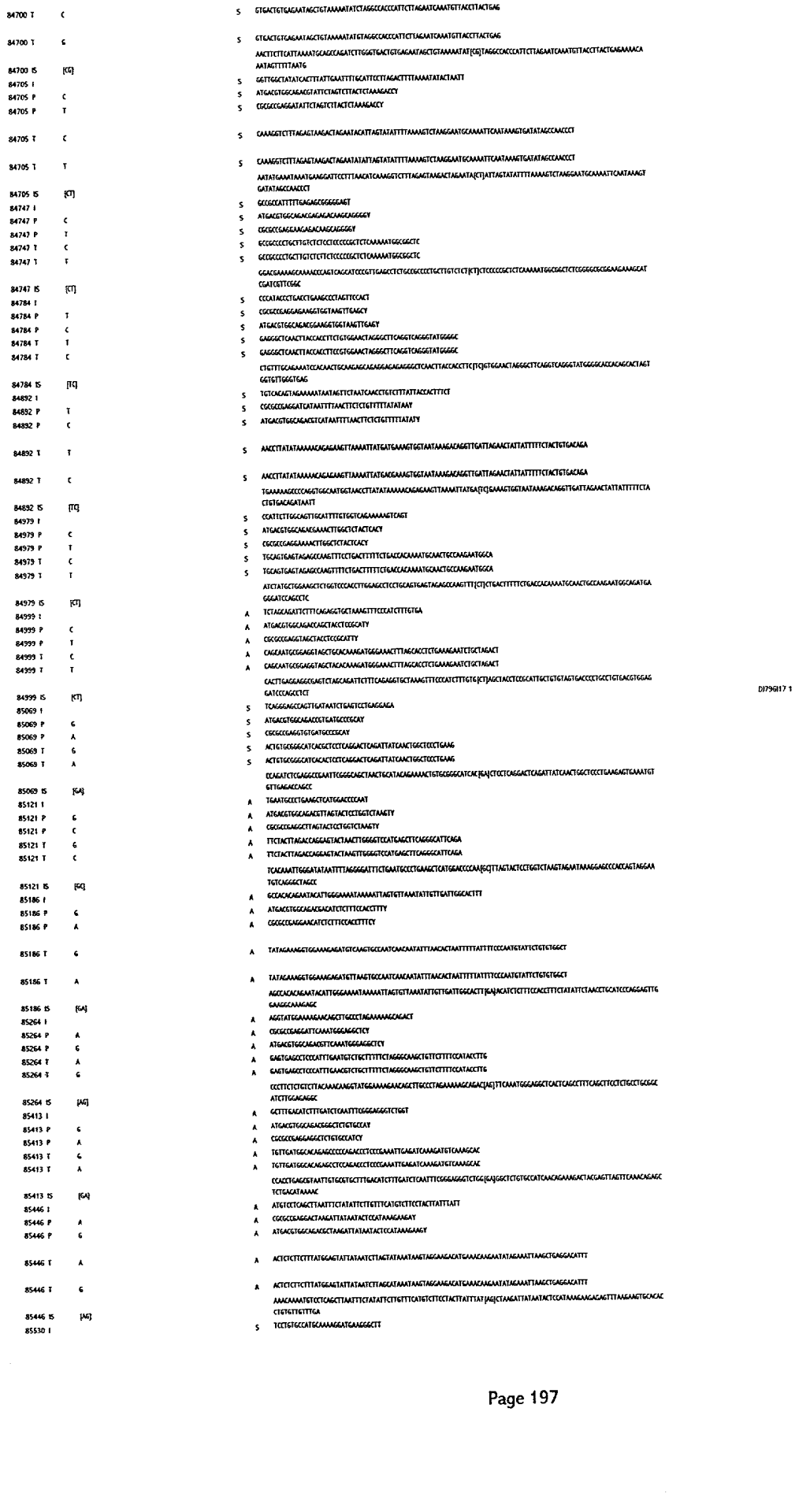
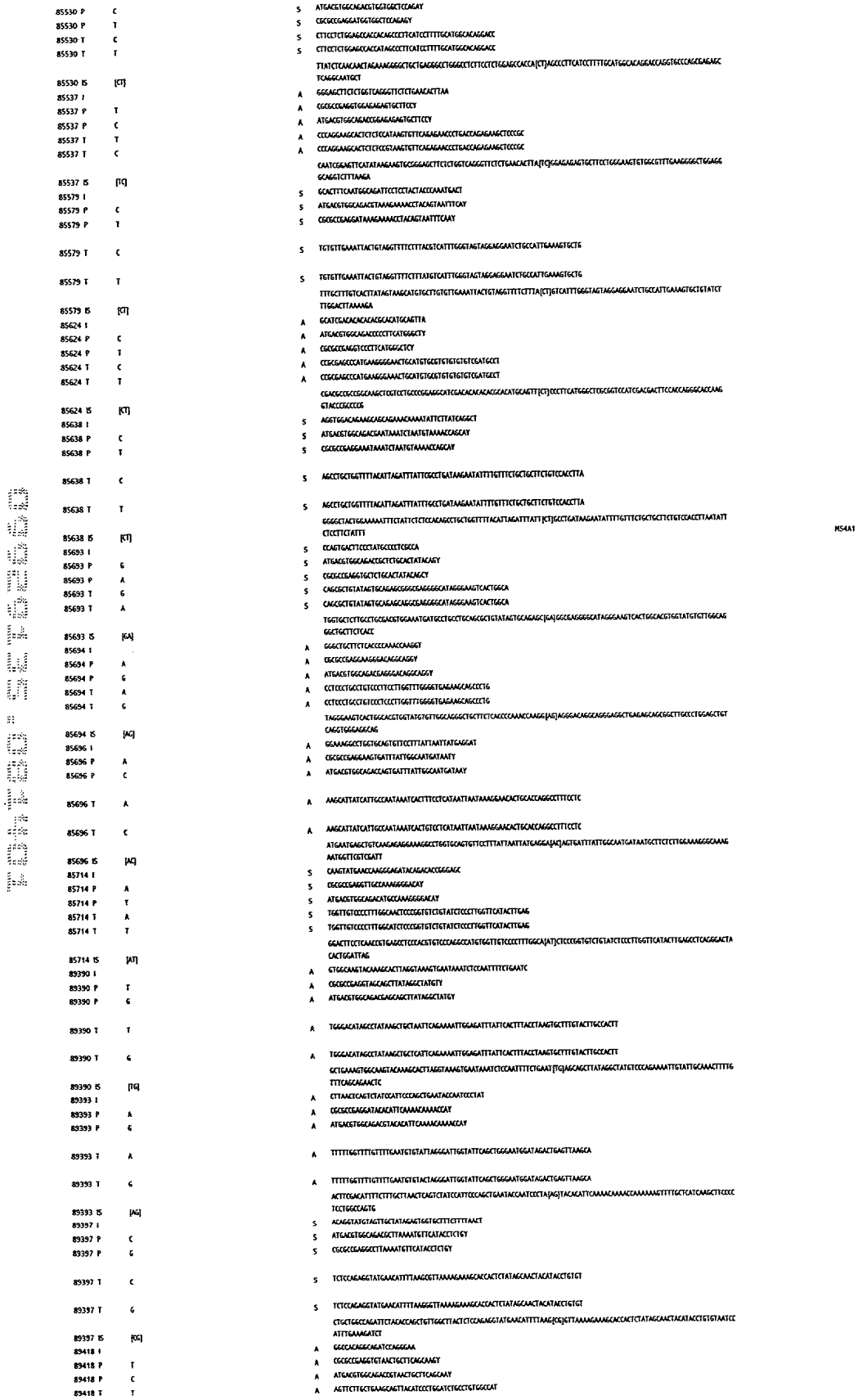


FIGURE 129C



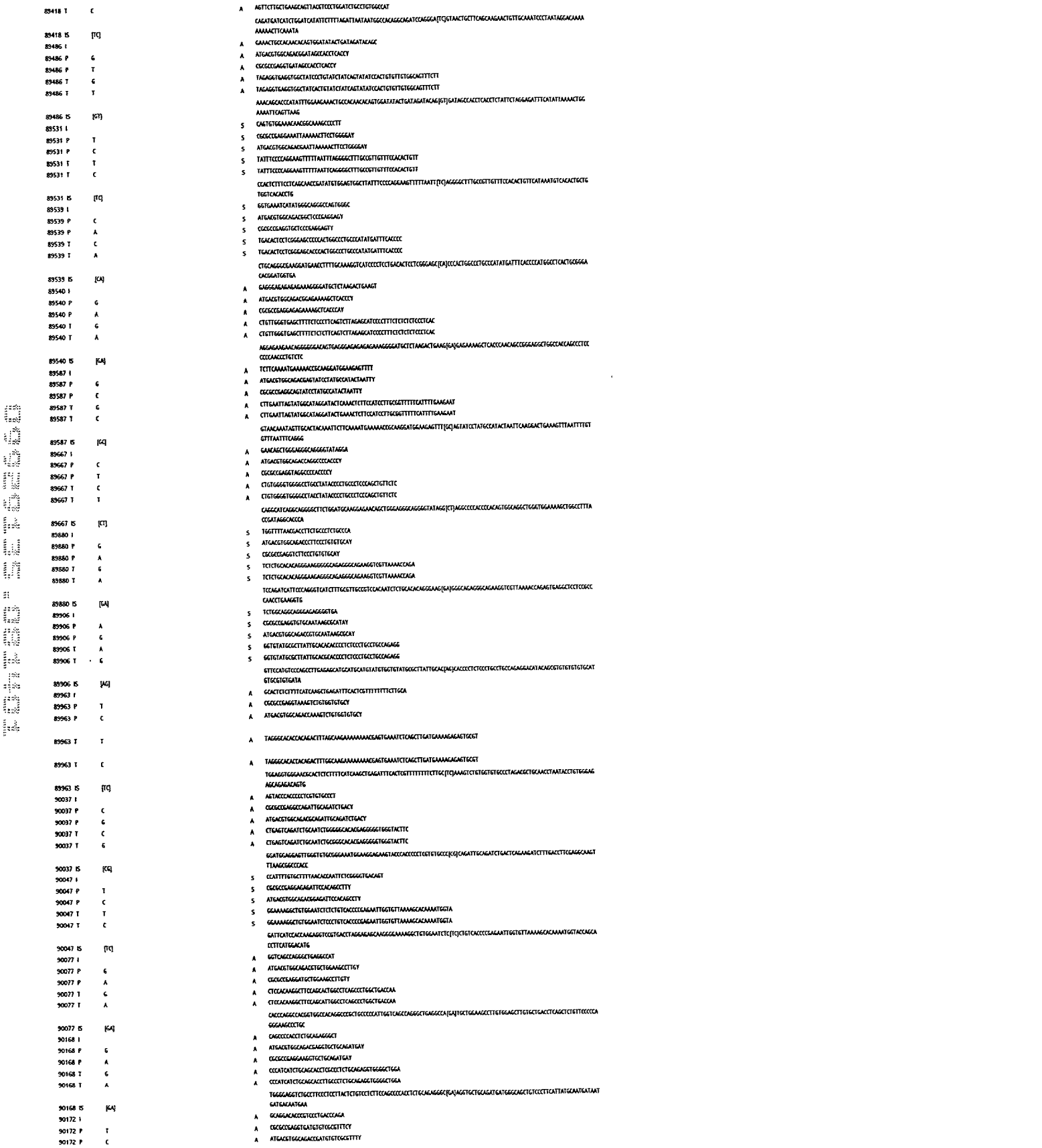

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AAAAACTTCAAATA
89418 IS [TC]
89486 I
A GAAACTGCCACAACACAGTGGATATACTGATAGATACAGC
89486 P G
A ATGACGTGGCAGAGGGATAGCCACCTCACCY
89486 P T
A CGCGCCGAGGTGATAGCCACCTCACCY
89486 T G
A TAGAGGTGAGGTGGCTATCCCTGTATCTATCAGTATATCCACTGTGTTGTGGCAGTTTCTT
89486 T T
A TAGAGGTGAGGTGGCTATCACTGTATCTATCAGTATATCCACTGTGTTGTGGCAGTTTCTT
AAACAGCACCCATATTTGGAAGAAACTGCCACACAACACAGTGGATATACTGATAGATACAG[GT]GATAGCCACCTCACCTCTATTCTAGGAGATTTCATATTAAAACTGG
AAAATTCAGTTAAG
89486 IS [GT]
89531 I
S CAGTGTGGAAACAACGGCAAAGCCCCTT
89531 P T
S CGCGCCGAGGAAATTAAAAACTTCCTGGGGAY
89531 P C
S ATGACGTGGCAGAGSAATTAAAAACTTCCTGGGGAY
89531 T T
S TATTTCCCCAGGAAGTTTTTAATTTAGGGGCTTTGCCGTTGTTTCCACACTGTT
89531 T C
S TATTTCCCCAGGAAGTTTTTAATTCAGGGGCTTTGCCGTTGTTTCCACACTGTT
CCACTCTTTCCTCAGCAACCGATATGTGGAGTGGCTTATTTCCCCAGGAAGTTTTTAATTJTC)AGGGGCTTTGCCGTTGTTTCCACACTGTTCATAAATGTCACACTGCTG
TGGTCACACCTG
89531 IS [TC]
89539 I
S GGTGAAATCATATGGGCAGGGCCAGTGGGC
89539 P C
S ATGACGTGGCAGACGGCTCCCGAGGAGY
89539 P A
S CGCGCCGAGGTGCTCCCCGAGGAGTY
89539 T C
S TGACACTCCTCGGGAGCCCCACTGGCCCTGCCCATATGATTTCACCCC
89539 T A
S TGACACTCCTCGGGAGCACCCACTGGCCCTGCCCATATGATTTCACCCC
CTGCAGGGCGAAGGATGAACCTTTGCAAAGGTCATCCCCTCCTGACACTCCTCGGGAGC[GA]CCCACTGGCCCTGCCCATATGATTTCACCCCATGGCCTCACTGCGGGA
CACGGATGGTGA
89539 IS [CA]
89540 I
A GAGGGAGAGAGAGAAAGGGGATGCTCTAAGACTGAAGT
89540 P G
A ATGACGTGGCAGACGGAGAAAAGCTCACCCY
89540 P A
A CGCGCCGAGGAGACGAAAAGCTCACCCAY
89540 T G
A CTGTTGGGTGAGCTTTCTCTCCCTTCAGTCTTAGAGCATCCCCTTTCTCTCTCTCCCCTCAC
89540 T A
A CTGTTGGGTGAGCTTTCTCTCTTCAGTCTTAGAGCATCCCCTTTCTCTCTCTCCCCTCAC
AGGAGAAGAACAGGGGGGAACAGTGAGGGAGAGAGAGAAAGGGGATGCTCTAAGACTGAAG[GA]GAGAAAAGCTCACCCAACAGCCGGGAAGGCTGGCCAACAGCCCTCC
CCCCAACCCTGTCTC
89540 IS [GA]
89587 I
A TCTTCAAAATGAAAAACCGCAAGGATGGAAGAGTTTT
89587 P G
A ATGACGTGGCAGACGAGTATCCTATGCCATACTAATTY
89587 P C
A CGCGCCGAGGCAGTATCCTATGCCATACTAATTY
89587 T G
A CTTGAATTAGTATGGCATAGGATACTCAAACTCTTCCATCCTTGCGGTTTTTCATTTTGAAGAAT
89587 T C
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GTTTAATTTCAGGG
89587 IS [GC]
89667 I
A GAACAGCTGGGAGGGCAGGGGTATAGGA
89667 P C
A ATGACGTGGCAGACAGGCCCACCCY
89667 P T
A CGCGCCGAGGTAGGCCCCACCCCY
89667 T C
A CTGTGGGGTGGGGCCTGCCTATACCCCTGCCCTCCCAGCTGTTCTC
89667 T T
A CTGTGGGGTGGGGCCTACCTATACCCCTGCCCTCCCAGCTGTTCTC
CAGGCATCAGGCAGGGGCTTCTGGATGCAAGGAGAACAGCTGGGAGGGCAGGGGTATAGG[CT]AGGCCCCACCCCACAGTGGCAGGCTGGGTGGAAAAGCTGGCCTTTA
CCGATAGGCACCCA
89667 IS [CT]
89880 I
S TGGTTTTAACGACCTTCTGCCCTCTGCCCA
89880 P G
S ATGACGTGGCAGACCCTTCCCTGTGTGCAY
89880 P A
S CGCGCCCAGGTCTTCCCTGTGTGCAY
89880 T G
S TCTCTGCACACAGGGAAGAGGGGCAGAGGGCAGAAGGTCGTTAAAACCAGA
89880 T A
S TCTCTGCACACAGGGAAGAGGGCAGAGGGCAGAAGGTCGTTAAAACCAGA
TCCAGATCATTCCCAGGGTCATCTTTGCGTTGCCGTCCACAATCTCTGCACACAGGGAAG[GA]GGGCAGAGGCAGAAGGTCGTTAAAACCAGAGTGAGGCTCCTCGCC
CAACCTGAAGGTG
89880 IS [GA]
89906 I
S TCTGGCAGGCAGGGAGAGAGGGTGA
89906 P A
S CGCGCCGAGGTGTGCAATAAGCGCATAY
89906 P G
S ATGACGTGGCAGACCGTGCAATAAGCGCAY
89906 T A
S GGTGTATGCGCTTATTGCACACACCCCTCTCCCTGCCTGCCAGAGG
89906 T G
S GGTGTATGCGCTTATTGCACGCACCCCTCTCCCTGCCTGCCAGAGG
GTTCCATGTCCCAGCCTTGAAGACATGCATGCATGTATGTGGTGTATGCGCTTATTGCAC[AG]CACCCCTCTCCCTGCCTGCCAGAGGACATACAGCGTGTGTGTGTGCAT
GTGCGTGTGATA
89906 IS [AG]
89963 I
A GCACTCTCTTTCATCAAGCTGAGATTTCACTCGTTTTTTTCTTGCA
89963 P T
A CGCGCCGAGGTAAAGTCTGTGGTGTGCY
89963 P C
A ATGACGTGGCAGACCAAAGTCTGTGGTGTGCY
89963 T T
A TAGGGCACACCACAGACTTTAGCAAGAAAAAAAACSAGTGAAATCTCAGCTTGATGAAAAGAGAGTGCGT
89963 T C
A TAGGGCACACCACAGACTTTGGCAAGAAAAAAAACSAGTGAAATCTCAGCTTGATGAAAAGAGAGTGCGT
TGGAGGTGGGCAACGCACTCTCTTTTCATCAAGCTGAGATTTCACTCGTTTTTTTTCTTGC[TC]AAAGTCTGTGGTGTGCCCTAGAGGCTGCAACCTAATACCTGTGGGAG
AGCAGAGACAGTG
89963 IS [TC]
90037 I
A AGTACCCACCCCCTCGTGTGCCCT
90037 P C
A CGCGCCGAGGCCAGATTGCAGATCTGACY
90037 P G
A ATGACGTGGCAGACGCAGATTGCAGATCTGACY
90037 T C
A CTGAGTCAGATCTGCAATCTGGGGGCACACGAGGGGGTGGGTACTTC
90037 T G
A CTGAGTCAGATCTGCAATCTGCGGGCACACGAGGGGGTGGGTACTTC
GGATGCAGGAGTTGGGTGTGCGGGAAATGGAAGGAGAAGTACCCACCCCCTCGTGTGCCC[CG]CAGATTGCAGATCTGACTCAGAAGATCTTTGACCTTCGAGGCAAGT
TTAAGCGGCCCACC
90037 IS [CG]
90047 I
S CCATTTTGTGCTTTTAACACCAATTCTCGGGGTGACAGT
90047 P T
S CGCGCCGAGGAGAGATTCCACAGCCTTY
90047 P C
S ATGACGTGGCAGACGGAGATTCCACAGCCTY
90047 T T
S GGAAAAGGCTGTGGAATCTCTCTGTCACCCCAGAATTGGTGTTAAAAGCACAAAATGGTA
90047 T C
S GGAAAAGGCTGTGGAATCTCCCTGTCACCCCAGAATTGGTGTTAAAAGCACAAAATGGTA
GATTCATCCACCAAGAGGTCCGTGACCTAGGAGAGCAAGGGGAAAAGGCTGTGGAATCTC[TC]CTGTCACCCCAGAATTGGTGTTAAAAGCACAAATGGTACCAGCA
CCTTCATGGACATG
90047 IS [TC]
90077 I
A GGTCAGCCAGGGCTGAGGCCAT
90077 P G
A ATGACGTGGCAGACGTGCTGGAAGCCTTGY
90077 P A
A CGCGCCGAGGATGCTGCAAGCCTTGTY
90077 T G
A CTCCACAAGGCTTCCAGCACTGGCCTCAGCCCTGGCTGACCAA
90077 T A
A CTCCACAAGGCTTCCAGCATTGGCCTCAGCCCTGGCTGACCAA
CACCCAGGCCACGGTGGCCACAGGCCCGCTGCCCCCATTGGTCAGCCAGGGCTGAGGCCA[GA]TGCTGGAAGCCTTGTGGAGCTTGTGCTGACCTCAGCTCTGTTCCCCCA
GGGAAGCCCTGC
90077 IS [GA]
90168 I
A CAGCCCCACCTCTGCAGAGGGCT
90168 P G
A ATGACGTGGCAGACGAGGTGCTGCAGATGAY
90168 P A
A CGCGCCGAGGAAGGTGCTGCAGATGAY
90168 T G
A CCCATCATCTGCAGCACCTCGCCCTCTGCAGAGGTGGGGCTGGA
90168 T A
A CCCATCATCTGCAGCACCTTGCCCCTCTGCAGAGGTGGGGCTGGA
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GATGACAATGAA
90168 IS [GA]
90172 I
A GCAGGACACCCGTCCCTGACCCAGA
90172 P T
A CGCGCCGAGGTGATGTGTCGCGTTTCY
90172 P C
A ATGACGTGGCAGACCGATGTGTCGCGTTTY

FIGURE 129C

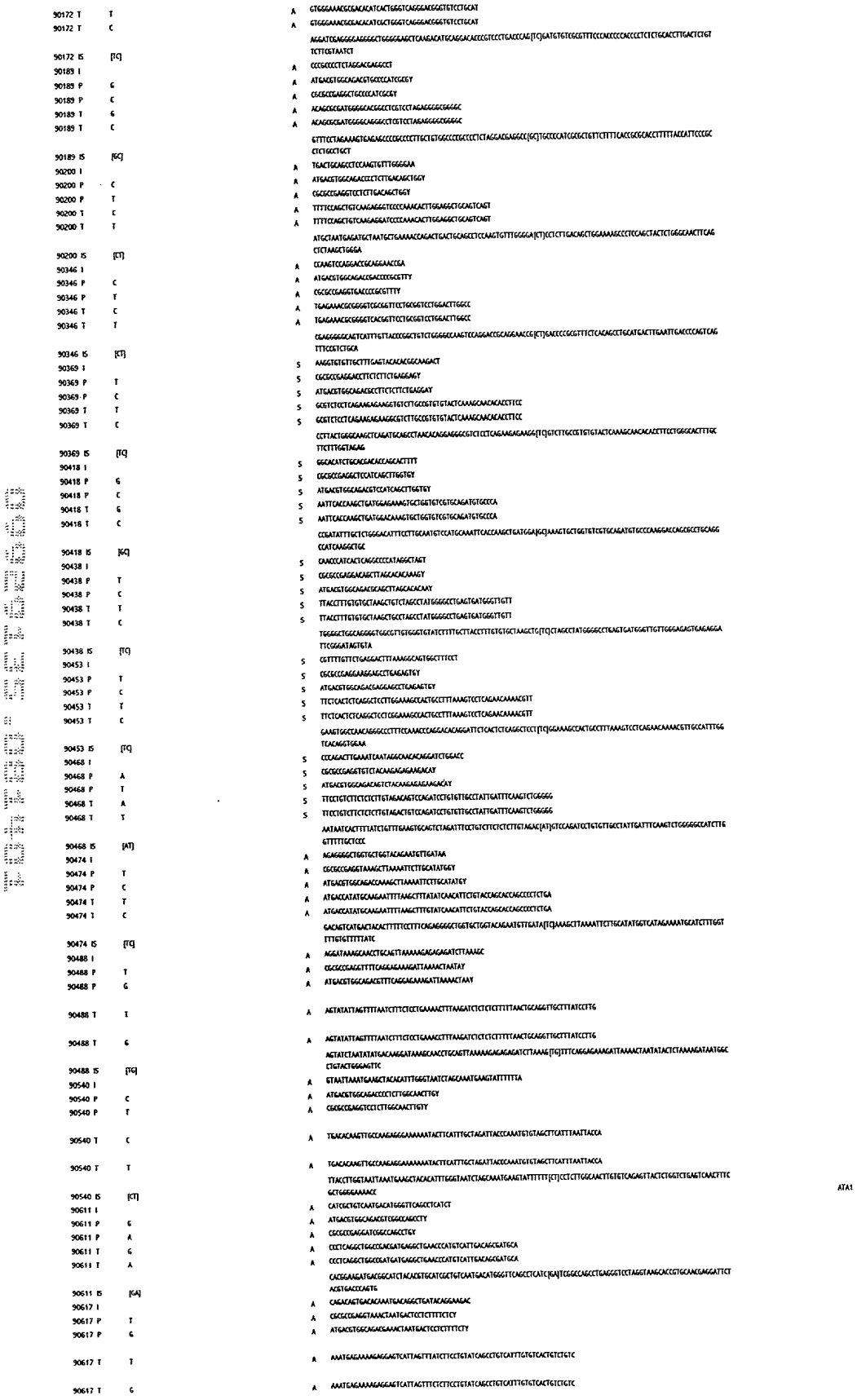
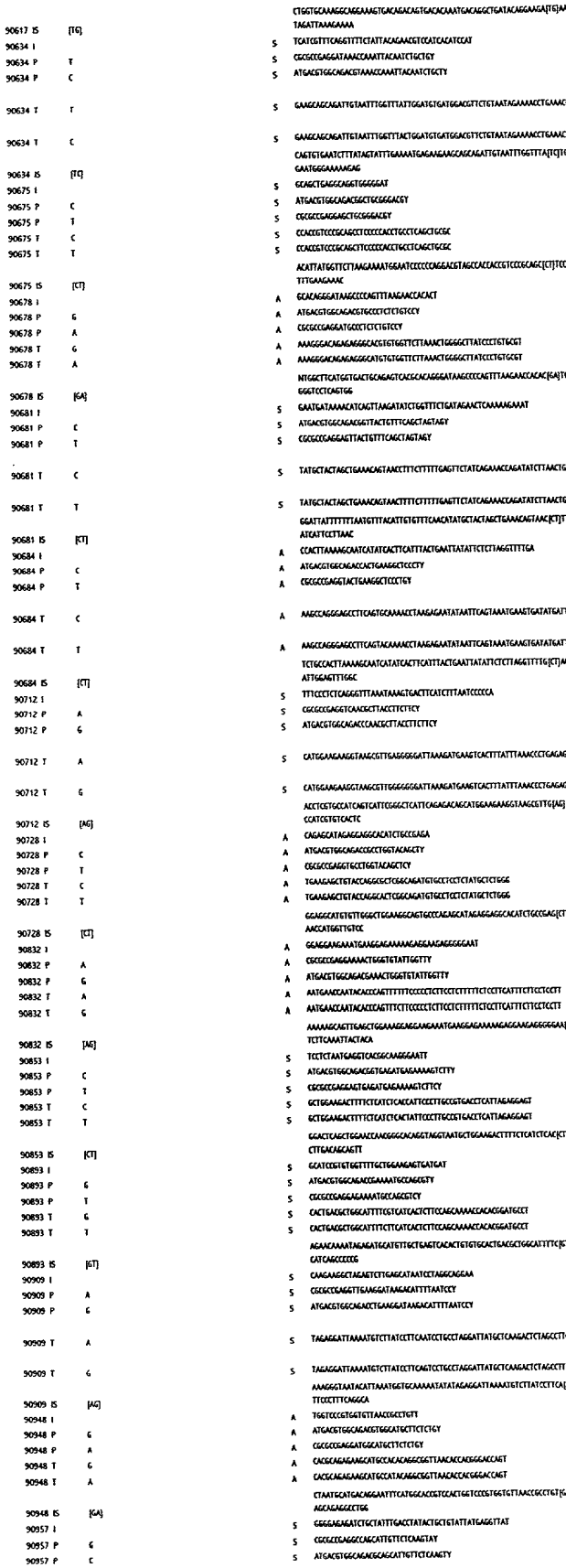
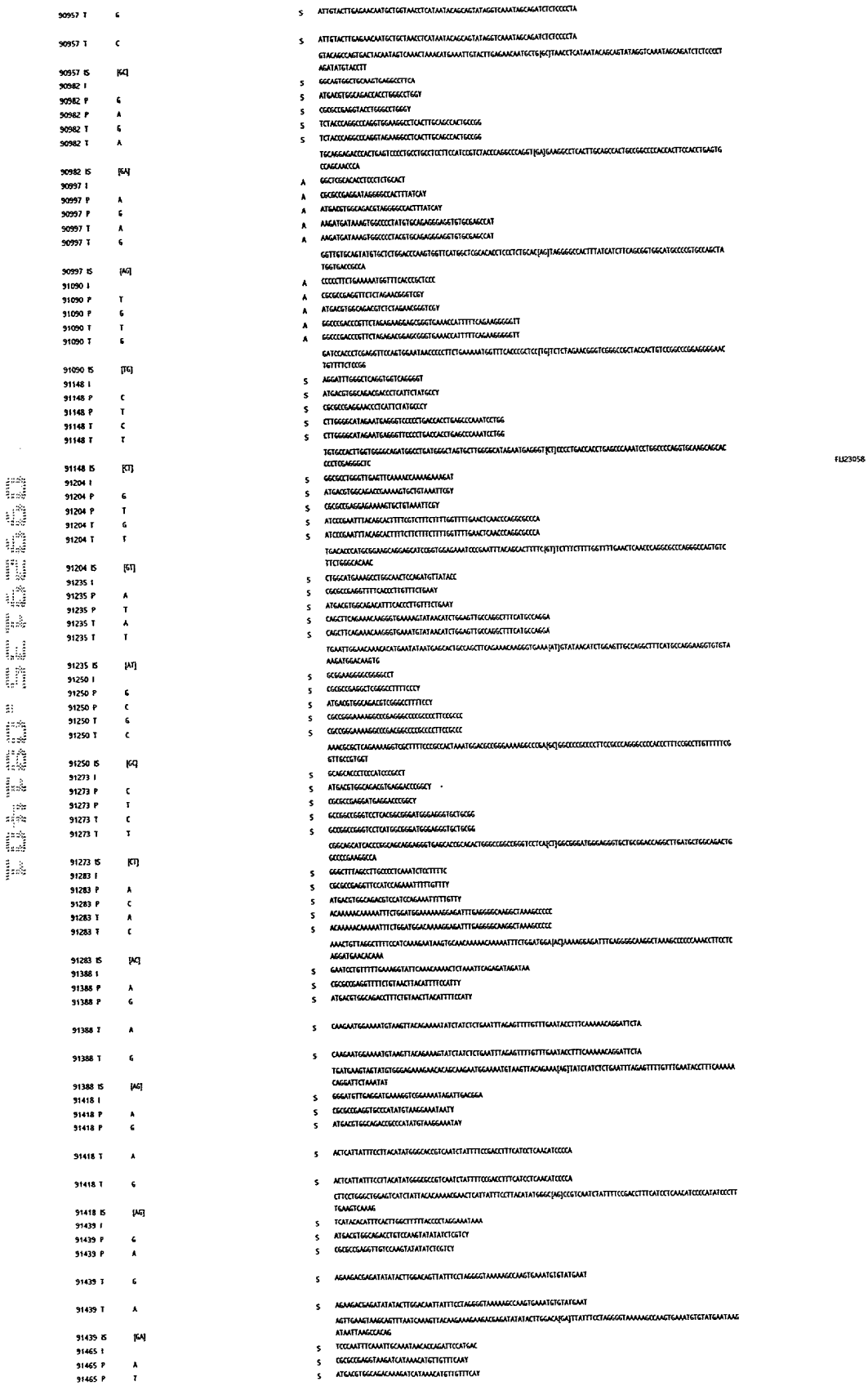
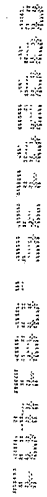


FIGURE 129C


CTGGTGCAAAGGCAGGAAAGTGACAGACAGTGACACAAATGACAGGCTGATACAGGAAGA[TG]AAACTAATGACTCCTCTTTTCTCATTTGAAATATTAATAACCACTA
90617 IS [TG]
TAGATTAAAGAAAA
90634 I
S TCATCGTTTCAGGTTTTCTATTACAGAACGTCCATCACATCCAT
90634 P T
S CGCGCCGAGGATAAACCAAATTACAATCTGCTGY
90634 P C
S ATGACGTGGCAGACGTAAACCAAATTACAATCTGCTY
90634 T T
S GAAGCAGCAGATTGTAATTTGGTTTATTGGATGTGATGGACGTTCTGTAATAGAAAACCTGAAACGATGATT
90634 T C
S GAAGCAGCAGATTGTAATTTGGTTTACTGGATGTGATGGACGTTCTGTAATAGAAAACCTGAAACGATGATT
CAGTGTGAATCTTTATAGTATTTGAAAATGAGAAGAAGCAGCAGATTGTAATTTGGTTTA[TC]TGGATGTGATGGACGTTCTGTAATAGAAAACCTGAAACGATGATT
GAATGGGAAAAAGAG
90634 IS [TC]
90675 I
S GCAGCTGAGGCAGGTGGGGGAT
90675 P C
S ATGACGTGGCAGACGGCTGCGGGACGY
90675 P T
S CGCGCCGAGGAGCTGCGGGACGY
90675 T C
S CCACCGTCCCGCAGCCTCCCCCACCTGCCTCAGCTGCGC
90675 T T
S CCACCGTCCCGCAGCTTCCCCCACCTGCCTCAGCTGCGC
ACATTATGGTTCTTAAGAAAATGGAATCCCCCCAGGACGTAGCCACCACCGTCCCGCAGC[CT]TCCCCCACCTGCCTCAGCTGCGCTGAGTGTATGTGCGTTCATTCTGCT
TTTGAAGAAAC
90675 IS [CT]
90678 I
A GCACAGGGATAAGCCCCAGTTTAAGAACCACACT
90678 P G
A ATGACGTGGCAGACGTGCCCTCTCTGTCCY
90678 P A
A CGCGCCGAGGATGCCCTCTCTGTCCY
90678 T G
A AAAGGGACAGAGAGGGCCACGTGTGGTTCTTAAACTGGGGCTTATCCCTGTGCGT
90678 T A
A AAAGGGACAGAGAGGGCCATGTGTGGTTCTTAAACTGGGGCTTATCCCTGTGCGT
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GGGTCCTCAGTGG
90678 IS [GA]
90681 I
S GAATGATAAAACATCAGTTAAGATATCTGGTTTCTGATAGAACTCAAAAAGAAAT
90681 P C
S ATGACGTGGCAGACGGTTACTGTTTCAGCTAGTAGY
90681 P T
S CGCGCCGAGGAGTTACTGTTTCAGCTAGTAGY
90681 T C
S TATGCTACTAGCTGAAACAGTAACCTTTCTTTTTGAGTTCTATCAGAAACEAGATATCTTAACTGATGTTTTATCATTCCT
90681 T T
S TATGCTACTAGCTGAAACAGTAACTTTTCTTTTTGAGTTCTATCAGAAACAGATATCTTAACTGATGTTTTATCATTCCT
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90681 IS [CT]
90684 I
A CCACTTAAAAGCAATCATATCACTTCATTTACTGAATTATATTCTCTTAGGTTTTGA
90684 P C
A ATGACGTGGCAGACCACTGAAGGCTCCCTY
90684 P T
A CGCGCCGAGGTACTGAAGGCTCCCTGY
90684 T C
A AAGCCAGGGAGGCTTCAGTGCAAAACCTAAGAGAATATAATTCAGTAAATGAAGTGATATGATTGCTTTTAAGTGGCA
90684 T T
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90684 IS [CT]
90712 I
S TTTCCCTCTCAGGGTTTAAATAAAGTGACTTCATCTTTAATCCCCCA
90712 P A
S CGCGCCCGAGGTCAACGCTTACCTTCTTCY
90712 P G
S ATGACGTGGCAGACCCAACGCTTACCTTCTTCY
90712 T A
S CATGGAAGAAGGTAAGCGTTGAGGGGGGATTAAAGATGAAGTCACTTTATTTAAACCCTGAGAGGGAAACC
90712 T G
S CATGGAAGAAGGTAAGCGTTGGGGGGGGATTAAAGATGAAGTCACTTTATTTAAACCCTGAGAGGGAAACC
ACCTCGTGCCATCAGTCATTCGGGCTCATTCAGAGACAGCATGGAAGAAGGTAAGCGTTG[AG]GGGGGATTAAAGATGAAGTCACTTTATTTAAACCCTGAGAGGGAAA
CCATCGTGTCACTC
90712 IS [AG]
90728 I
A CAGAGCATAGAGCAGGCACATCTGCCGAGA
90728 P C
A ATGACGTGGCAGACCGCCTGGTACAGCTY
90728 P T
A CGCGCCGAGGTGCCTGGTACAGCTCY
90728 T C
A TGAAGAGCTGTACCAGGCGCTCGGCAGATGTGCCTCCTCTATGCTCTGGG
90728 T T
A TGAAGAGCTGTACCAGGCACTCGGCAGATGTGCCTCCTCTATGCTCTGGG
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AACCATGGTTGTCC
90728 IS [CT]
90832 I
A GGAGGAAGAAATGAAGGACAAAAAGAGGAAGAGGGGAAT
90832 P A
A CGCGCCCAGGAAAACTGGGTGTATTGGTTY
90832 P G
A ATGACGTGGCAGACGAAACTGGGTGTATTGGTTY
90832 T A
A AATGAACCAATACACCCAGTTTCTTCCCCCTCTTCCTCTTTTTCTCCTTCATTTCTTCCTCCTT
90832 T G
A AATGAACCAATACACCCAGTTTCTTCCCCCTCTTCCTCTTTTTCTCCTTCATTTCTTCCTCCTT
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TCTTCAAATTACTACA
90832 IS [AG]
90853 I
S TCCTCTAATGAGGTCACGGCAAGGGAATT
90853 P C
S ATGACGTGGCGACGGTGAGATGAGAAAAGTCTTY
90853 P T
S CGCGCCGAGGAGTGAGATGAGAAAAGTCTTCY
90853 T C
S GCTGGAAGACTTTTCTCATCTCAACCATTCCCTTGCCGTGACCTCATTAGAGGAGT
90853 T T
S GCTGGAAGACTTTTCTCATCTCAACTATTCCCTTGCCGTGACCTCATTAGAGGAGT
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CTTGACAGCAGTT
90853 IS [CT]
90893 I
S GCATCCGTGTGGTTTTGCTGGAAGAGTGATGAT
90893 P G
S ATGACGTGGCAGACCGAAAATGCCAGCGTY
90893 P T
S CGCGCCGAGGAGAAAATGCCAGCGTCY
90893 T G
S CACTGACGCTGGCATTTTCGTCATCACTCTTCCAGCAAAACCACACGGATGCCT
90893 T T
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90893 IS [GT]
90909 I
S CAGCAAGGCTACAGTCTTGAGCATAATCCTAGGCAGGAA
90909 P A
S CGCGCCGAGGTTGAAGGATAAGACATTTTAATCCY
90909 P G
S ATGACGTGGCAGACCTGAAGGATAAGACATTTTAATCCY
90909 T A
S TAGAGGATTAAAATGTCTTATCCTTCAATCCTGCCTAGGATTATGCTCAAGACTCTAGCCTTCTTGTG
90909 T G
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TTCCCTTTCAGGCA
90909 IS [AG]
90948 I
A TGGTCCCGTGGTGTTAACCGCCTGTT
90948 P G
A ATGACGTGGCAGACGTGGCATGCTTCTCTGY
90948 P A
A CGCGCCGAGGATGGCATGCTTCTCTGY
90948 T G
A CACGCAGAGAAAGCATGCCACACAGGCCGTTAACACCACGGGACCAGT
90948 T A
A CACGCAGAGAAAGCATGCCATACAGGCCGTTAACACCACGGGACCAGT
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90948 IS [GA]
90957 I
S GGGGAGAGATCTGCTATTTGACCTATACTGCTGTATTATGAGGTTAT
90957 P G
S CGCGCCCAGGCCAGCATTGTTCTCAAGTAY
90957 P C
S ATGACGTGGCAGACGCAGCATTGTTCTCAAGTY


90957 T G
S ATTGTACTTGAGAACAATGCTGGTAACCTCATAATACAGCAGTATAGGTCAAATAGCAGATCTCTCCCCTA
90957 T C
S ATTGTACTTGAGAACAATGCTGCTAACCTCATAATACAGCAGTATAGGTCAAATAGCAGATCTCTCCCCTA
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AGATATGTACCTT
90957 IS [GC]
90982 I
S GGCAGTGGCTGCAAGTGAGGCCTTCA
90982 P G
S ATGACGTGGCAGACACCTGGGCCTGGY
90982 P A
S CGGGCCGAGGTACCTGGGCCTGGGY
90982 T G
S TCTACCCAGGCCCAGGTGGAAGGCCTCACTTGCAGCCACTGCCGG
90982 T A
S TCTACCCAGGCCCAGGTAGAAGGCCTCACTTGCAGCCACTGCCGG
TGCAGGAGACCCACTGAGTCCCCTGCCTGCCTCCTTCCATCCGTCTACCCAGGCCCAGGT[GA]GAAGGCCTCACTTGCAGCCACTGCCGCCCCACCACTTCCACCTGAGTG
CCAGCAACCCA
90982 IS [GA]
90997 I
A GGCTCGCACACCTCCCTCTGCACT
90997 P A
A CGCGCCGAGGATAGGGGCCACTTTATCAY
90997 P G
A ATGACGTGGCAGACGTAGGGGCCACTTTATCAY
90997 T A
A AAGATGATAAAGTGGCCCCTATGTGCAGAGGAGAGGTGTGCGAGCCAT
90997 T G
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90997 IS [AG]
91090 I
A CCCCCTTCTGAAAAATGGTTTCACCCGCTCCC
91090 P T
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91090 P G
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91090 T T
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91090 T G
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TGTTTCTCCGG
91090 IS [TG]
91148 I
S AGGATTTGGGCTCAGGTGGTCAGGGGT
91148 P C
S ATGACGTGGCAGACGACCCTCATTCTATGCCY
91148 P T
S CGCGCCCAGGAACCCTCATTCTATGCCY
91148 T C
S CTTGGGGCATAGAATGAGGGTCCCCCTGACCACCTGAGCCCAAATCCTGG
91148 T T
S CTTGGGGCATAGAATGAGGGTTCCCCTGACCACCTGAGCCCAAATCCTGG
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CCCTCGAGGGCTC
91148 IS [CT]
91204 I
S GGCGCCTGGGTTGAGTTCAAAACCAAAAGAAAGAT
91204 P G
S ATGACGTGGCAGACCGAAAAGTGCTGTAAATTCGY
91204 P T
S CGCGCCGAGGAGAAAAGTGCTGTAAATTCGY
91204 T G
S ATCCCGAATTTACAGCACTTTTCGTCTTCTCTTTGGTTTTGAACTCAACCCAGGCGCCCA
91204 T T
S ATCCCGAATTTACAGCACTTTTCTTCTTTCTTTTGGTTTTGAACTCAACCCAGGCGCCCA
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TTCTGGGCACAAC
91204 IS [GT]
91235 I
S CTGGCATGAAAGCCTGGCAACTCCAGATGTTATACC
91235 P A
S CGGCCCAAGGTTTTCACCCTTGTTTCTGAAY
91235 P T
S ATGACGTGGCAGACATTTCACCCTTGTTTCTGAAY
91235 T A
S CAGCTTCAGAAACAAGGGTGAAATGTATAACATCTGGAGTTGCCAGGCTTTCATGCCAGGA
91235 T T
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91235 IS [AT]
91250 I
S GCGGAAGGGCCGGGGCCT
91250 P G
S CGGCGCCGAGGCTCGGCCTTTTCCCY
91250 P C
S ATGACGTGGCAGACGTCGGGCCTTTTCCY
91250 T G
S CGCCGGGAAAAGGCCCGAGGGCCCCCCCCTTCGCCC
91250 T C
S CGCCGGGAAAAGGCCCGACGGCCCCCCCCTTCGCCC
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GTTGCCGTGGT
91250 IS [GC]
91273 I
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91273 P C
S ATGACGTGGCAGACGTGAGGACCCGGCY
91273 P T
S CGCGCCGAGGATGAGGACCCGGCY
91273 T C
S GCCGGCCGGGTCCTCACGGCGGGATGGGAGGGTGCTGCGG
91273 T T
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91273 IS [CT]
91283 I
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91283 P A
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91283 P C
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91283 T A
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91283 T C
S ACAAAAACAAAAATTTCTGGATGGACAAAAGCAGATTTGAGGGGCAAGCCTAAAGCCCCC
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AGGATGAACACAAA
91283 IS [AC]
91388 I
S GAATCCTGTTTTTGAAAGGTATTCAAACAAAACTCTAAATTCAGAGATAGATAA
91388 P A
S CGCGCCGAGGTTTTCTGTAACTTACATTTTCCATTY
91388 P G
S ATGACGTGGCAGACCTTTCTGTAACTTACATTTTCCATTY
91388 T A
S CAAGAATGGAAAATGTAAGTTACAGAAAATATCTATCTCTGAATTTAGAGTTTTGTTTGAATACCTTTCAAAAACAGGATTCTA
91388 T G
S CAAGAATGGAAAATGTAAGTTACAGAAAGTATCTATCTCTGAATTTAGAGTTTTGTTTGAATACCTTTCAAAAACAGGATTCTA
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CAGGATTCTAAATAT
91388 IS [AG]
91418 I
S GGGATGTTGAGGATGAAAGGTCGGAAAATAGATTGACGGA
91418 P A
S CGCGCCGAGGTGCCCATATGTAAGGAAATAATY
91418 P G
S ATGACGTGGCAGACGCCCATATGTAAGGAAATAY
91418 T A
S ACTCATTATTTCCTACATATGGGCACCGTCAATCTATTTTCCGACCTTTCATCCTCAACATCCCCA
91418 T G
S ACTCATTATTTCCTACATATGGGGCCGTCAATCTATTTTCCGACCTTTCATCCTCAACATCCCCA
CTTCCTGGGCTGGAGTCATCTATTACACAAAACGAACTCATTATTCCTTACATATGGGC[AG]CCGTCAATCTATTTTCCGACCTTTCATCCTCAACATCCCCATATCCCTT
TGAAGTCAAAG
91418 IS [AG]
91439 I
S TCATACACATTTCACTTGGCTTTTTACCCCTAGGAAATAAA
91439 P G
S ATGACGTGGCAGACCTGTCCAAGTATATATCTCGTCY
91439 P A
S CGCGCCGAGGTTGTCCAAGTATATATCTCGTCY
91439 T G
S AGAAGACGAGATATATACTTGGACAGTTATTTCCTAGGGGTAAAAAGCCAAGTGAAATGTGTATGAAT
91439 T A
S AGAAGACGAGATATATACTTGGACAATTATTTCCTAGGGGTAAAAAGCCAAGTGAAATGTGTATGAAT
AGTTGAAGTAAGCAGTTTAATCAAAGTTACAAGAAAGAAGACGAGATATATACTTGGACA[CA]TTATTTCCTAGGGGTAAAAAGCCAAGTGAAATGTGTATGAATAAG
ATAATTAAGCCACAG
91439 IS [GA]
91465 I
S TCCCAATTTCAAATTGCAAATAACACAGATTCCATGAC
91465 P A
S CGCGCCGAGGTAAGATCATAAACATGTTGTTTCAAY
91465 P T
S ATGACGTGGCAGACAAAGATCATAAACATGTTGTTTCAY

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91465 T	A		S	TGGCTTGAAACAACATGTTTATGATCTTATCATGGAATCTGGTGTTATTTGCAATTTGAAATTGGGAAT	
91465 T	T		S	TGGCTTGAAACAACATGTTTATGATCTTTTCATGGAATCTGGTGTTATTTGCAATTTGAAATTGGGAAT	
91465 IS	[AT]			ACTACATAGCAAATTATCACAAACCTAAAATGTGGCTTGAAACAACATGTTTATGATCTT[AT]TCATGGAATCTGGTGTTATTTGCAATTTGAAATTGGGAATCATATT ACATTTACTTTGCA	
91486 I			A	ACTGAGATGATTGTCCTGACCCCGCTACCCA	
91486 P	C		A	ATGACGTGGCAGACCCAAGTGTAAGAGAAGTCCY	
91486 P	T		A	CGGCCCGAGGTCAAGTGTAAGAGAAGTCCTY	
91486 T	C		A	ATCCAGGACTTCTCTTACACTTGGGGGTAGCGGGGTCAGGACAATCATCTCAGTCC	
91486 T	T		A	ATCCAGGACTTCTCTTACACTTGAGGGTAGCGGGGTCAGGACAATCATCTCAGTCC	
91486 IS	[CT]			GAGGGAAGAAAGCAGAAGAAAAGATGCAGGACTGAGATGATTGTCCTGACCCCGCTACCC[CT]CAAGTGTAAGAGAAGTCCTGGATGGAATGGGTGGTGATTCCAATG ACGGATGGGAACCTC	STK16
91491 I			S	TGAACTTCAAGGTCAGGCTGGGCTCGGT	
91491 P	G		S	CGCGCCGAGGCCATCAGTTCCATCAGTTCY	
91491 P	C		S	ATGACGTGGCAGACGCATCAGTTCCATCAGTTY	
91491 T	G		S	CATTGAACTGATGGAACTGATGCCCGAGCCCAGCCTGACCTTGAAGTTCACA	
91491 T	C		S	CATTGAACTGATGGAACTGATGCCCGAGCCCAGCCTGACCTTGAAGTTCACA	
91491 IS	[GC]			CTACCTGGCCAGCTAACTGCTGAATGCCCCTGGTTTACATTGAACTGATGGAACTGAT[G/G]CCGAGCCCAGCCTGACCTTGAAGTTCACAGCTATGTGGAATTCGTCAC TTACTTACCCAA	
91525 I			A	GTCTGGGGCCCTGCGCCTGATT	
91525 P	G		A	ATGACGTGGCAGACGAGCTGCCATGAAAGTGY	
91525 P	A		A	CGCGCCGAGGAAGCTGCCATGAAAGTGY	
91525 T	G		A	CGGCCACTTTCATGGCAGCTCATCAGGGCAGGGCCCCAGACAG	
91525 T	A		A	CGGCCACTTTCATGGCAGCTTATCAGGGCGCAGGGCCCCAGACAG	
91525 IS	[GA]			CATTGGCCCAGGCCGGGCTCTAGGGCCTGCTGGGAAGCTGTCTGGGGCCTGCGCCTGAT[GA]AGCTGCCATGAAAGTGGCCGCCTCTCACACTGGCAGGCGGTGGCTCA GATCYGCTGAGGT	
91542 I			A	GAAAAGTCATCCATTGAATGGTCTGTTCCTGAATGTCT	
91542 P	G		A	ATGACGTGGCAGACGCCACAAAGCAGTCTGY	
91542 P	A		A	CGCGCCGAGGACCACAAAGCAGTCTGTY	
91542 T	G		A	TTTTACAGACTGCTTTGTGGCGACATTCAGGAACAGACCATTCAATGGATGACTTTTCAG	
91542 T	A		A	TTTTACAGACTGCTTTGTGGTGACATTCAGGAACAGACCATTCAATGGATGACTTTTCAG	
91542 IS	[GA]			ATTACTGCTTGCTTTATGTACTGAAAAGTCATCCATTGAATGGTCTGTTCCTGAATGTC[GA]CCACAAAGCAGTCTGTAAAACCCACTCACTTTCCCTCCTTAAATTACC TCCCTCCAGGTC	
91543 I			A	GCCTTGGTGGTTTAAAATGCATTATGCAGAGTTTCTAGCAGATT	
91543 P	G		A	ATGACGTGGCAGACGATAACAGTGACAATTGCAGY	
91543 P	A		A	CGCGCCGAGGAATAACAGTGACAATTGCAGAY	
91543 T	G		A	GTACTCTGCAATTGTCACTGTTATCATCTGCTAGAAACTCTGCATAATGCATTTTAAACCACCAAGGCTG	
91543 T	A		A	GTACTCTGCAATTGTCACTGTTATTATCTGCTAGAAACTCTGCATAATGCATTTTAAACCACCAAGGCTG	
91543 IS	[GA]			CATGCATGTGGCAACCAGCCTTGGTGGTTTAAAATGCATTATGCAGAGTTTCTAGCAGAT[GA]ATAACAGTGACAATTGCAGACTACTGATTTTTAATGTCAATTGTTT GTTCCCTGCAGAAC	
91644 I			S	CCTTTGGTGCTCTTGTCTCAAAGAACATCATTTTAATGTTAGCAAATATAGTAACAA	
91644 P	G		S	ATGACGTGGCAGACCGCTGAATCTTGTTAAATCATTY	
91644 P	A		S	CGCGCCGAGGTGCTGAATCTTGTTAAATCATTCY	
91644 T	G		S	CATAGAATGATTTAACAAGATTCAGCGTGTTACTATATTTGCTAACATTAAAATGATGTTCTTTGAGACAAGAGCACCAAAGGGA	
91644 T	A		S	CATAGAATGATTTAACAAGATTCAGCATGTTACTATATTTGCTAACATTAAAATGATGTTCTTTGAGACAAGAGCACCAAAGGGA	
91644 IS	[GA]			TTCCTACTTTCACTTTGCTGAAGTTTATTCCTCCATAGAATGATTTAACAAGATTCAGC[GA]TGTTACTATATTTGCTAACATTAAAATGATGTTCTTTGAGACAAGAG CACCAAAGGGAGA	
91662 I			S	CCCCTTCCCTCTCCAAACATTACCAACCCAAATTTCTA	
91662 P	A		S	CGCGCCCAGGTAAGAGCAGATTAAACTTGCTACY	
91662 P	G		S	ATGACGTGGCAGACCAAGAGGAGATTAAACTTGCTY	
91662 T	A		S	AGGAGTAGCAAGTTTAATCTCCTCTTAAGAAATTTGGGTTGGTAATGTTTGGAGAGGGAAGGGGGA	
91662 T	G		S	AGGAGTAGCAAGTTTAATCTCCTCTTGAGAAATTTGGGTTGGTAATGTTTGGAGAGGGAAGGGGGA	
91662 IS	[AG]			TCAGGCTAAGAGCATCTTGAGTTTTGGAACACATAGGAGTAGCAAGTTTAATCTCCTCTT[AG]AGAAATTTGGGTTGGTAATGTTTGGAGAGGGAAGGGGGACAGTGT AGAAGTCCCTAATTT	
91721 I			S	GCCACAGGCTGCACATGGCCCATCA	
91721 P	G		S	ATGACGTGGCAGACCGAAGGGTTTTGTTTGGAY	
91721 P	A		S	CGCGCCGAGGTGAAGGGTTTTGTTTGGAY	
91721 T	G		S	ACAGTCCAAACAAACCCTTCGGATGGGCCATGTGCAGCCTGTGGCCA	
91721 T	A		S	ACAGTCCAAACAAACCCTTCAGATGGGCCATGTGCAGCCTGTGGCCA	
91721 IS	[GA]			CTTTAATTCAATTTAAAATGGTATGTGGGTCAATGCCACACAGTCCAAACAAACCCTTC[GA]GATGGGCCATGTGCAGCCTGTGGCCACCTCTTTGTGACTGAGGTCAG TGAAGACATGGCA	
91739 I			S	CCCGCACGGAGCCTCGGGC	
91739 P	C		S	ATGACGTGGCAGACGGTTAACGGCTCCCTY	
91739 P	A		S	CGCGCCGAGGTGTTAACGGCTCCCTY	
91739 T	C		S	GGCCAGGGAGCCGTTAACCCCCGAGGCTCCGTGCCGGGTC	
91739 T	A		S	GGCCAGGGAGCCGTTAACACCCGAGGCTCCGTGCCGGGTC	
91739 IS	[CA]			GGAATAGGCGGGACATGGTCACACAGCGCCCCAGAAGGGGAAGGGCCAGGGAGCCGTTAAC[CA]CCCCAGGCTCCGTGCCGGGTCTCACCTGGCTGAATGTCGGCTTGTTG TGAAGCCGGGAGC	
91742 I			S	CAGTCAGCAGTGGCCCTTGACCTCTCTCT	
91742 P	C		S	ATGACGTGGCAGACGGCCAATTACCTTATGACTY	
91742 P	T		S	CGCGCCGAGGAGCCAATTACCTTATGACTCY	
91742 T	C		S	AATTGAGTCATAAGGTAATTGGCTGAGAGAGGTCAAGGGCCACTGCTGACTGTT	
91742 T	T		S	AATTGAGTCATAAGGTAATTGGCTGAGAGAGGTCAAGGGCCACTGCTGACTGTT	
91742 IS	[CT]			TAAAATTCTATGGAGGAAACAAAAAGAAGAATGGCCAAATTGAGTCATAAGGTAATTGGC[CT]GAGAGAGGTCAAGGGCCACTGCTGACTGTTGGTTTAGAAAGAGGA CCCCAGACTGTGGGG	
91765 I			A	GCAAACTGGATTAAAGTCACTTTCCTTGGGGCCTGA	
91765 P	C		A	ATGACGTGGCAGACCGGATTTCACAAGGAGAAY	
91765 P	T		A	CGCGCCGAGGTGGATTTCACAAGGAGAACY	
91765 T	C		A	TGCAGTTCTCCTTGTGAAATCCGCAGGCCCCAAGGAAAGTGACTTTAATCCAGTTTGCTC	
91765 T	T		A	TGCAGTTCTCCTTGTGAAATCCACAGGCCCCAAGGAAAGTGACTTTAATCCAGTTTGCTC	
91765 IS	[CT]			GAAATGCCAGTCTGTTCTTGCATGAGCAAACTGGATTAAAGTCACTTTCCTTGGGGCCT[G/T]GGATTTCACAAGGAGAACTGCATCTGAGCAGCACACTTCTTTAAGAT GTAGCTTCAAAAT	
91813 I			A	CTGCTCCAGCCGGGCTAGGGCT	
91813 P	G		A	ATGACGTGGCAGACGGCAGCGGCTGCY	
91813 P	A		A	CGCGCCGAGGAGCAGCGGCTGCY	
91813 T	G		A	GATGGCAGCCGCTGCCGCCCTAGCCCGGCTGGAGCAGAA	
91813 T	A		A	GATGGCAGCCGCTGCTGCCCTAGCCCGGCTGGAGCAGAA	
91813 IS	[GA]			GGTGTCCTGCGATGTGGGGCCCCAGGCCCGGAACTGCTTCTGCTCCAGCCGGGCTAGGGC[GA]GCAGCGGCTGCCATCTGTGCCTCATTGGTGGGTCCCTGGCGGGGGGGGC CTGGGGGCTGGC	UBXD1
91823 I			A	CAGCAGGCCTGCATCTGGGTGCTCT	
91823 P	G		A	ATGACGTGGCAGACGCCCTCCAGCCCY	
91823 P	A		A	CGCGCCGAGGACCCTCCAGCCCTY	
91823 T	G		A	TGGCAGGGCTGGAGGGCTAGCAACCAGATGCAGGCCTGCTGTC	
91823 T	A		A	TGGCAGGGCTGGAGGGTGAGCACCCAGATGCAGGCCTGCTGTC	

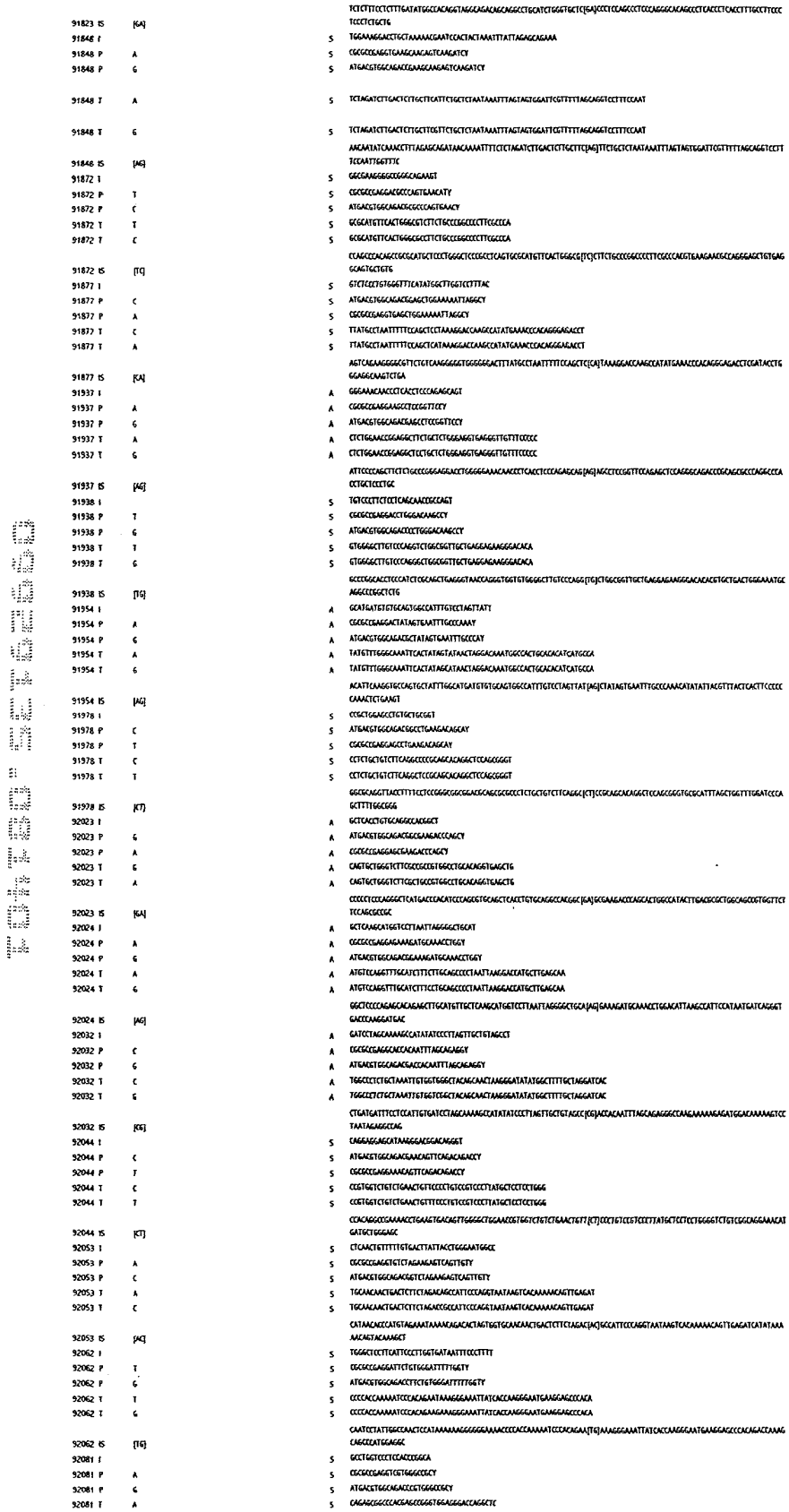
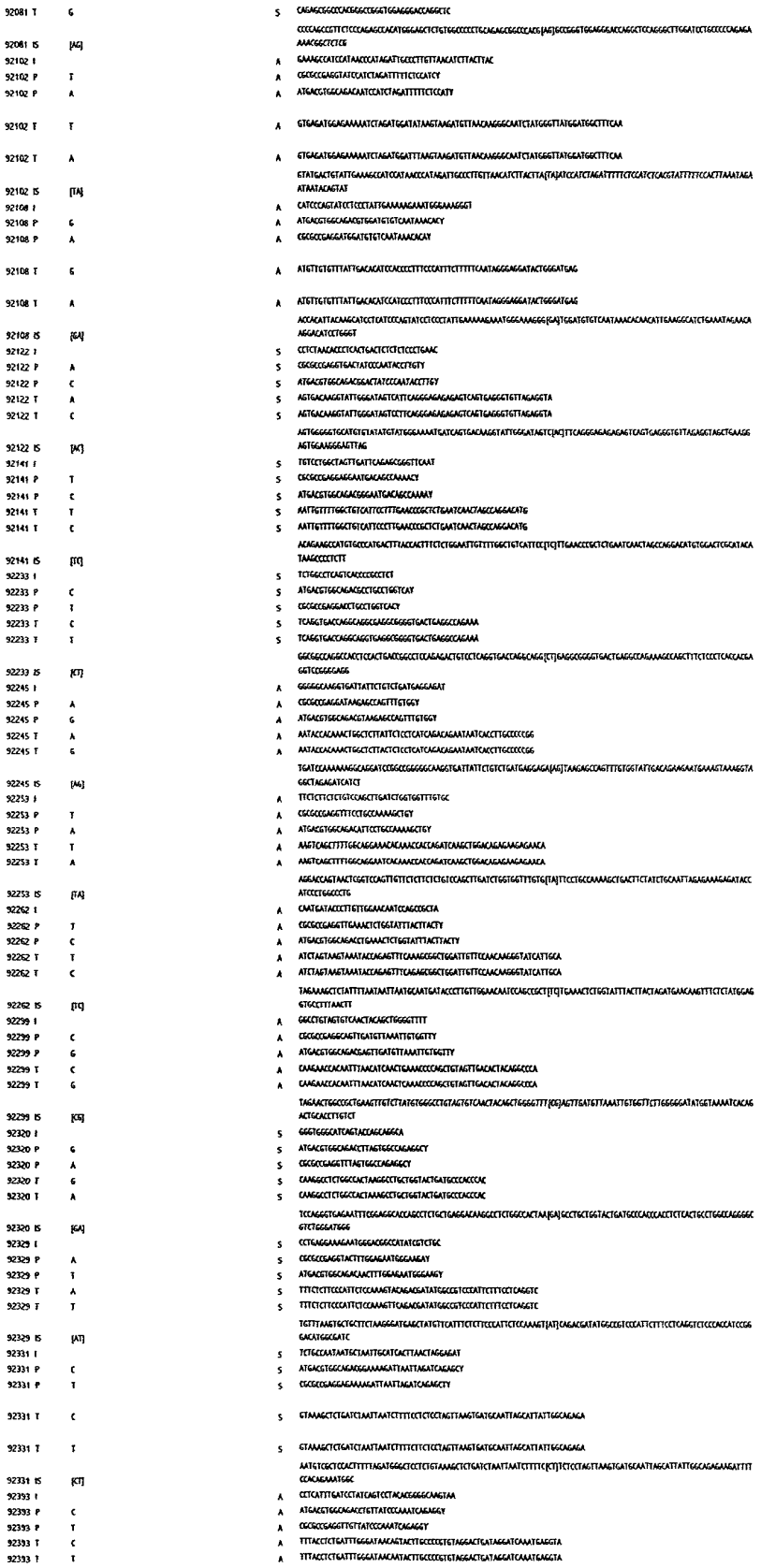
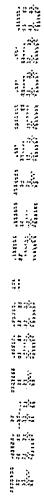


FIGURE 129C





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92393 IS     [CT]                               TGAATTGCACAGC
92394 I                                 A       CCTCTGGCTACTGCAGCAAAATTCTTCAGATAATCTCAAAAAAGAGA
92394 P      T                          A       CGCGCCGAGGTGACATGCTTGCTTCAGY
92394 P      C                          A       ATGACGTGGCAGACCGACATGCTTGCTTCAY

92394 T      T                          A       ATCTCTGAAGCAAGCATGTCACTCTTTTTTGAGATTATCTGAAGAATTTTGCTGCAGTAGCCAGAGGGA

92394 T      C                          A       ATCTCTGAAGCAAGCATGTCGCTCTTTTTGAGATTATCTGAAGAATTTTGCTGCAGTAGCCAGAGGGA
                                                TTTTACCGGGTTTCCCTCTGGCTACTGCAGCAAAATTCTTCAGATAATCTCAAAAAAGAG[TC]GACATGCTTGCTTCAGAGATGGGGGTAGGGGCAGACATACTGAACTA
92394 IS     [TC]                               CATTCATATTCCA
92454 I                                 S       GGCTGGGGAGGCCCCAGCTCA
92454 P      A                          S       CGCGCCGAGGTGAGACCCTGGGTCCY
92454 P      G                          S       ATGACGTGGCAGACCGAGACCCTGGGTCY
92454 T      A                          S       AGCAGGACCCAGGGTCTCAGAGCTGGGGCCTCCCCAGCCTC
92454 T      G                          S       AGCAGGACCCAGGGTCTCGGAGCTGGGGCCTCCCCAGCCTC
                                                CCCTCCTGTCCTCCTCCAAGAACCAGGCAGTGTGGGGTGGGGCAGCAGGAGCCCAGGGTCTC[AG]GAGCTGGGGCCTCCCCAGCCTCACTTGGGGCCTCCAAGCCTAAGTTCT
92454 IS     [AG]                               GTGACCTCCAGG
92472 I                                 S       CACACACTGACATTTTCAATTCAGCTCTTTTAGCTTCCCCA
92472 P      G                          S       ATGACGTGGCAGACCACCTGCCTACCCAAY
92472 P      A                          S       CGCGCCGAGGTACCTGCCTACCCAATAAY
92472 T      G                          S       GTTCTTATTGGGTAGGCAGGTGGGGGAAGCTAAAAGAGCTGAATTGAAAATGTCAGTGTGTGCA
92472 T      A                          S       GTTCTTATTGGGTAGGCAGGTAGGGGAAGCTAAAAGAGCTGAATTGAAAATGTCAGTGTGTGCA
                                                GTGGCTGATACAGTACAGGACAGTAATTGCCTTTGAACTGTTCTTATTGGGTAGGCAGGT[GA]GGGGAAGCTAAAAGAGCTGAATTGAAAATGTCAGTGTGTGCATCT
92472 IS     [GA]                               TCAGTTTCTTCCTCC
92523 I                                 S       GCAGTGACCCTCTATATACTTGGAAAATAAATGTTCAAACT
92523 P      T                          S       CGCGCCGAGGATTTAAATGTCATACGAAGAAGAAAT
92523 P      C                          S       ATGACGTGGCAGACGTTTAAATGTCATACGAAGAAGAAT

92523 T      T                          S       GTATTTTCTTCTTGTATGACATTTAAATGTTTGAACATTTATTTTCCAAGTATATGAGAGGGTCACTGCAT

92523 T      C                          S       GTATTTTCTTCTTCCTATGACATTTAAACGTTTGAACATTTATTTTCCAAGTATATGAGAGGGTCACTGCAT
                                                GCTATCTTTCTTTCCAAGCTCTTGTGAACTCTGTATTTTCTTCTTGTATGACATTTAAA[TC]GTTTGAACATTTATTTTCCAAGTATATGAGAGGGTCACTGCATGTAA
92523 IS     [TC]                               CAATCACAAAATG
92532 I                                 S       AGCCATATTTCTTTTCTGGCCACTCATTTCCTAAATCATTTGT
92532 P      C                          S       ATGACGTGGCAGACGGCAAATTCTATTAAATCTTGGAY
92532 P      T                          S       CGCGCCGAGGAGCAAATTCTATTAAATCTTGGAAY

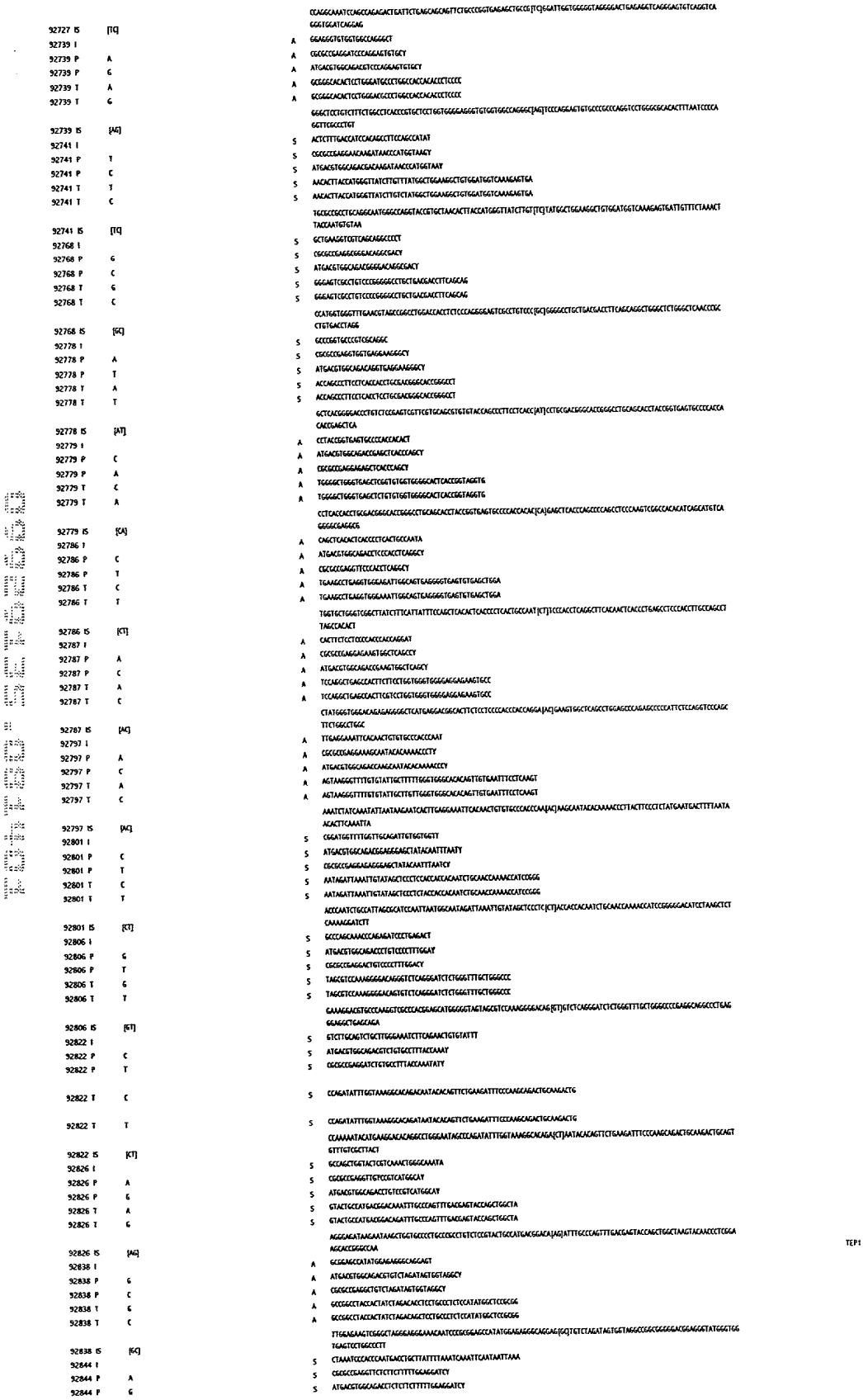
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92532 T      T                          S       TGGCTTTCCAAGATTTAATAGAATTTGCTCAAATGATTTAGGAAATGAGTGCCAGAAAAGAAATATGGCTCC
                                                TAGCAAGATTATTGAATTAAAGGCGAAGGCACTGGCTTTCCAAGATTTAATAGAATTTGC[CT]CAAATGATTTAGGAAATGAGTGCCAGAAAAGAAATATGGCTCCAA
92532 IS     [CT]                               AGATTTTTTTGCAGT
92618 I                                 A       GGCCCTCAGTGTCAAGCAGGACTAAGGTGC
92618 P      T                          A       CGCGCCGAGGTGTTCTGGCTTTTTGGGY
92618 P      A                          A       ATGACGTGGCAGACAGTTCTGGCTTTTTGGGY
92618 T      T                          A       TCACCCCAAAAAGCCAGAACACACCTTAGTCCTGCTTGACACTCGAGGGCCTG
92618 T      A                          A       TCACCCCAAAAAGCCAGAACTCACCTTAGTCCTGCTTGACACTCGAGGGCCTG
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92618 IS     [TA]                               TGTGAGATTTCA
92623 I                                 A       ACACGCACTCCAGAGATCCCAGAGTAAAGGGAATTAC
92623 P      T                          A       CGCGCCGAGGTCCCTGCCAGTCTAGY
92623 P      A                          A       ATGACGTGGCAGACAGCCTGCCAGTCTAGY
92623 T      T                          A       AACCCTAGACTGGCAGGGATAATTCCCTTTACTCTGGGATCTCTGGAGTGCGTGTTC
92623 T      A                          A       AACCCTAGACTGGCAGGGTTAATTCCCTTTACTCTGGGATCTCTGGAGTGCGTGTTC
                                                TCCCCAGGGCCAGCAACGTGCCTGAACACGCACTCCAGAGATCCCAGAGTAAAGGGAATTA[TA]CCCTGCCAGTCTAGGGTTGACTTCCTCTGTCTCGGGAAGCTGTAGAA
92623 IS     [TA]                               ATGGTTTAGATG
92648 I                                 A       TTGGTGGAGAAGTTTACCATAATAGAATTCAATTCTACTTCTTTTCTTTTTTTC
92648 P      T                          A       CGCGCCGAGGTTTCTCCTTGCAAGGAATATY
92648 P      A                          A       ATGACGTGGCAGACATCTCCTTGCAAGGAATATY

92648 T      T                          A       TCTCATATTCCTTGCAAGGAGAAAAAAAAAAGAAAAGAACTAGAATTGAATTCTATTATGGTAAACTTCTCCACCAACT

92648 T      A                          A       TCTCATATTCCTTGCAAGGAGAATAAAAAAAGAAAAGAACTAGAATTGAATTCTATTATGGTAAACTTCTCCACCAACT
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92648 IS     [TA]                               TGTAAAATTTATAA
92685 I                                 S       GGTTGCTTCTGCCTTCAACCCATTCCCCA
92685 P      A                          S       CGCGCCGAGGTAGGCCCACTTCAGCY
92685 P      G                          S       ATGACGTGGCAGACCAGGCCCACTTCAGCY
92685 T      A                          S       TGAAGCTGAAGTGGGCCTAGGGGAATGGGTTGAAGGCAGAAGCAACCAG
92685 T      G                          S       TGAAGCTGAAGTGGGCCTGGGGGAATGGGTTGAAGGCAGAAGCAACCAG
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92685 IS     [AG]                               TTTGGATATCCAGCC
92690 I                                 A       ACCCGCGACCCGCGGCTACGT
92690 P      G                          A       ATGACGTGGCAGACGTTCTCTTGGCTCCTGY
92690 P      A                          A       CGCGCCGAGGATTCTCTTGGCTCCTGCY
92690 T      G                          A       GAGGGCAGGAGCCAAGAGAACCGTAGCCGCGGTCGCGGGTTG
92690 T      A                          A       GAGGGCAGGAGCCAAGAGAATCGTAGCCGCGGTCGCGGGTTG
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92690 IS     [GA]                               GTCCCGGCACTT
92695 I                                 S       GAAATTTTGGGGATTCTCGACAGGGGTTTGACTGTC
92695 P      A                          S       CGCGCCGAGGTTGGGATTTATGCCTCAAGY
92695 P      T                          S       ATGACGTGGCAGACATGGGATTTATGCCTCAAGY
92695 T      A                          S       TTAGCTTGAGGCATAAATCCCAAACAGTCAAACCCCTGTCGAGAATCCCCAAAATTTCCT
92695 T      T                          S       TTAGCTTGAGGCATAAATCCCATACAGTCAAACCCCTGTCGAGAATCCCCAAAATTTCCT
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92695 IS     [AT]                               TGCGCAGGCTAT
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92707 P      T                          S       CGCGCCGAGGACCTTCTTCCTATTTCCTTCTY
92707 P      C                          S       ATGACGTGGCAGACGCCTTCTTCCTATTTCCTTCY
92707 T      T                          S       AAAGAGAAGGAAATAGGAAGAAGGCAATAATAGAGGAGGAAGAGGAGGGGAAGAGGGAATCTGAGA
92707 T      C                          S       AAAGAGAAGGAAATAGGAAGAAGGCAATAATAGAGGAGGAAGAGGAGGGGAAGAGGGAATCTGAGA
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92707 IS     [TC]                               CTGAGAAGGGGTGGGG
92727 I                                 S       CCTCTCAGTCCCCTACCCCACCAATCCT
92727 P      T                          S       CGCGCCGAGGACTGGCAGCTCTCACY
92727 P      C                          S       ATGACGTGGCAGACGCGGCAGCTCTCAY
92727 T      T                          S       CCCGGTGAGAGCTGCCGTGGATTGGTGGGGGTAGGGGACTGAGAGGTC
92727 T      C                          S       CCCGGTGAGAGCTGCCGCGGATTGGTGGGGGTAGGGGACTGAGAGGTC
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FIGURE 129C



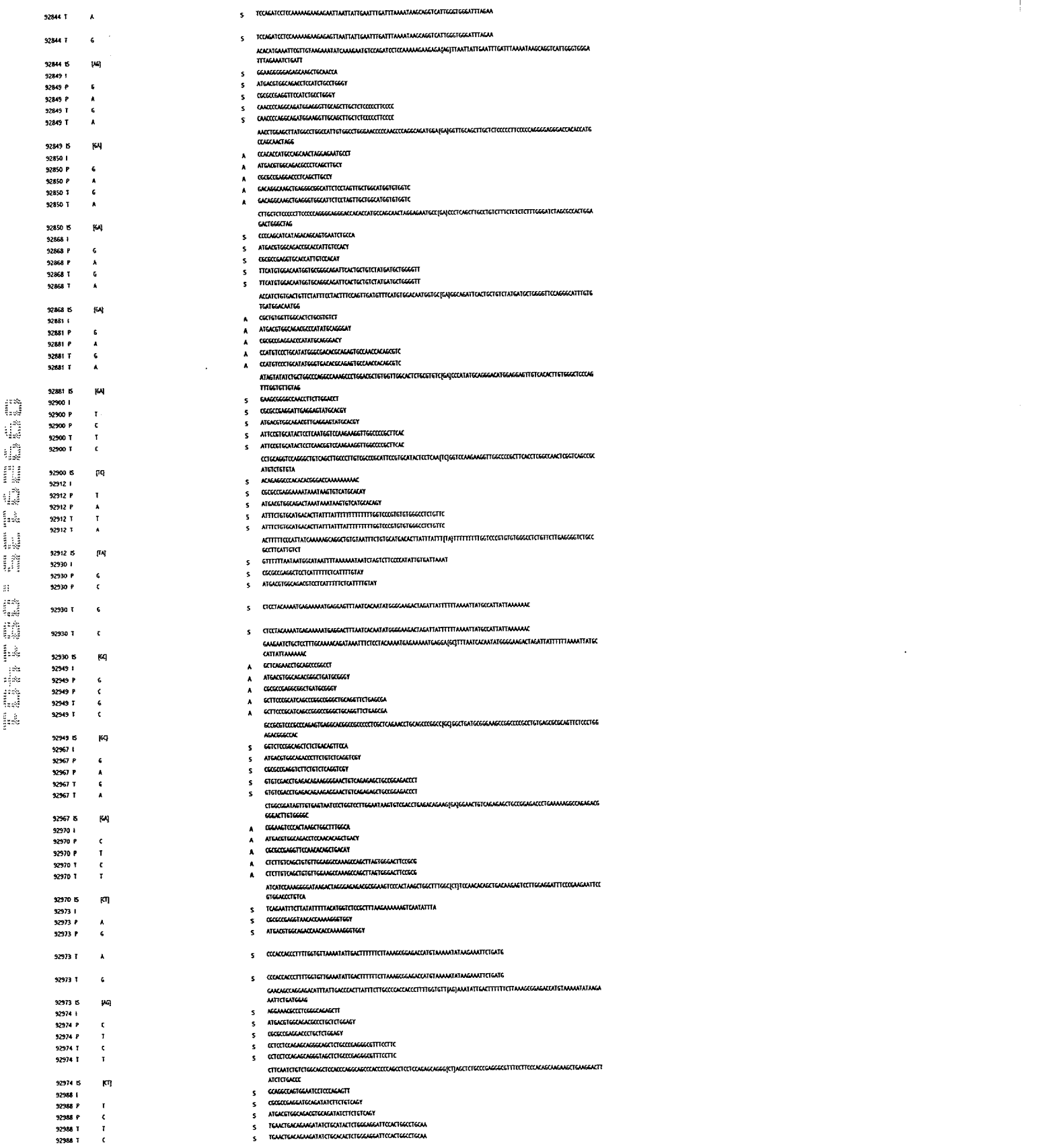
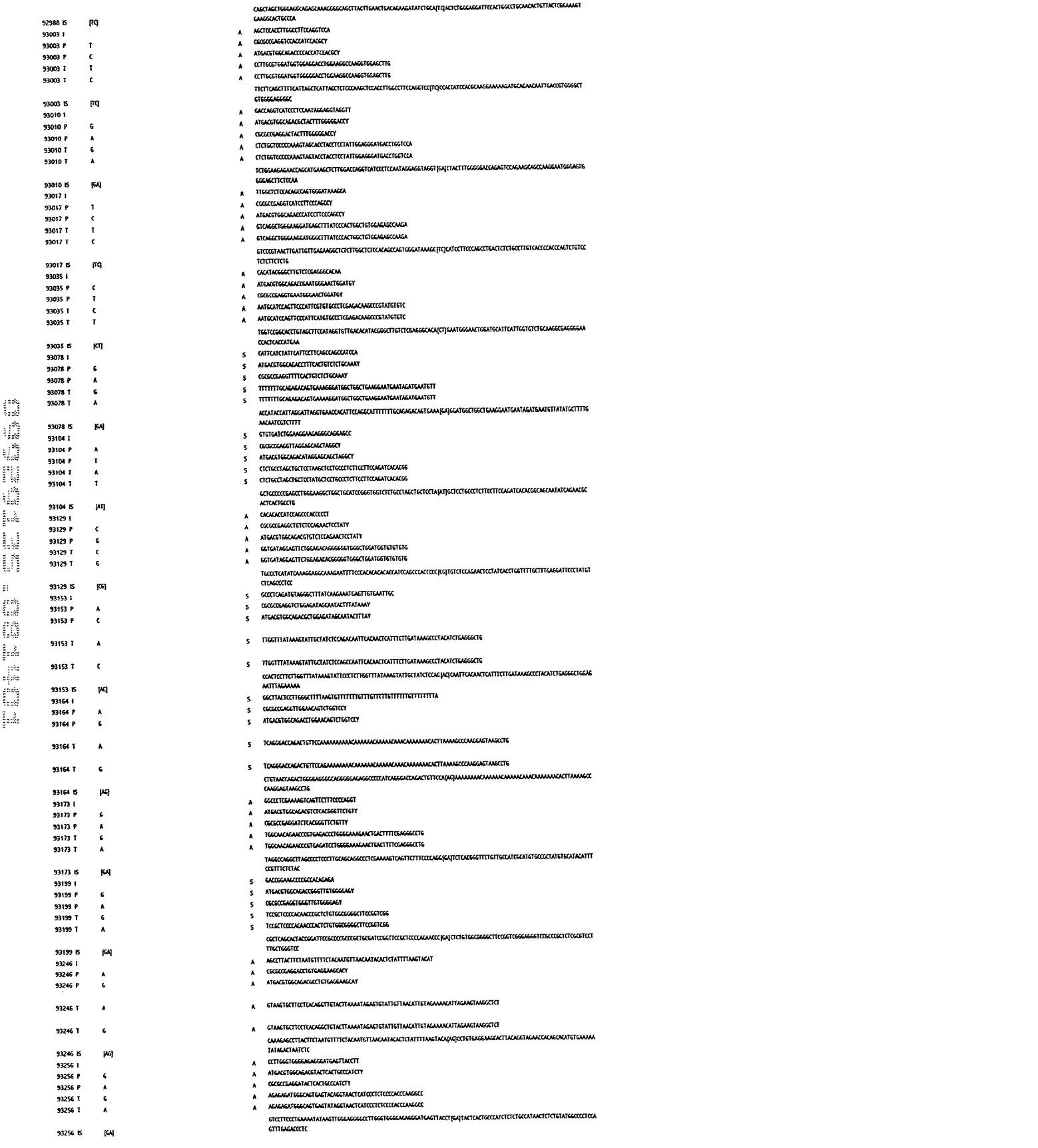

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92849 P A
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92849 T G
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92849 T A
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92849 IS [GA]
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92850 P G
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92900 P C
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92900 T C
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ATGTCTGTGTA
92900 IS [TC]
92912 I
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92912 P A
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92930 P C
S ATGACGTGGCAGACGTCCTCATTTTTCTCATTTTGTAY
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CATTATTAAAAAAC
92930 IS [GC]
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92949 P G
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92949 P C
A CGCGCCGAGGCGGCTGATGCGGGY
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A GCTTCCCGCATCAGCCGGGCCGGGCTGCAGGTTCTGAGCGA
92949 T C
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92967 P G
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92967 P A
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92967 T G
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92967 T A
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92967 IS [GA]
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92970 P C
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92970 P T
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92970 T C
A CTCTTGTCAGCTGTGTTGGAGGCCAAAGCCAGCTTAGTGGGACTTCCGCG
92970 T T
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92970 IS [CT]
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92973 P G
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92973 T G
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92974 P C
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92974 T C
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92974 T T
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FIGURE 129C



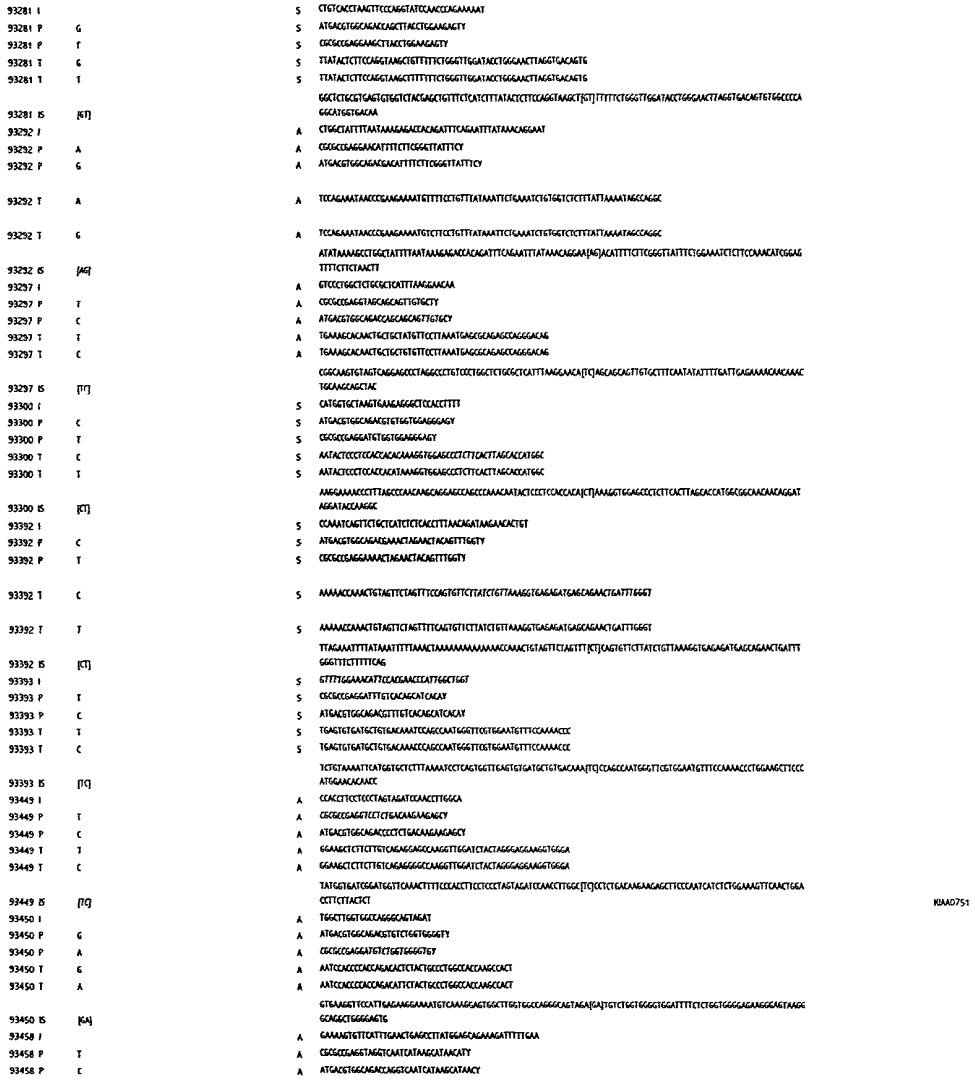

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93292 P G A ATGACGTGGCAGACGACATTTCTTCGGGTTATTTCY
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93297 P T A CGCGCCGAGGTAGCAGCAGTTGTGCTY
93297 P C A ATGACGTGGCAGACCAGCAGCAGTTGTGCY
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93297 T C A TGAAAGCACAACTGCTGCTGTTCCTTAAATGAGCGCAGAGCCAGGGACAG
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93392 F C S ATGACGTGGCAGAGGAAACTAGAACTACAGTTTGGTY
93392 P T S CGCGCCGAGGAAACTAGAACTACAGTTTGGTY
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93393 P T S CGCGCCGAGGATTTGTCACAGCATCACAY
93393 P C S ATGACGTGGCAGACGTTTGTCACAGCATCACAY
93393 T T S TGAGTGTGATGCTGTGACAAATCCAGCCAATGGGTTCGTGGAATGTTTCCAAAACCC
93393 T C S TGAGTGTGATGCTGTGACAAACCCAGCCAATGGGTTCGTGGAATGTTTCCAAAACCC
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93449 P T A CGCGCCGAGGTTCCTCTGACAAGAAGAGCY
93449 P C A ATGACGTGGCAGACCCCTCTGACAAGAAGAGCY
93449 T T A GGAAGCTCTTCTTGTCAGAGGAGCCAAGGTTGGATCTACTAGGGAGGAAGGTGGGA
93449 T C A GGAAGCTCTTCTTGTCAGAGGGGCCAAGGTTGGATCTACTAGGGAGGAAGGTGGGA
93449 IS [TC] TATGGTGATCGGATGGTTCAAACTTTCCCAACCTTCCTCCCTAGTAGATCCAACCTTGGC[TC]CCTCTGACAAGAAGAGCTTCCCAATCATCTCTGGAAAGTTCAACTGGA CCTTCTTACTCT KIAA0751
93450 I A TGGCTTGGTGGCCAGGGCAGTAGAT
93450 P G A ATGACGTGGCAGACGTGTCTGGTGGGGTY
93450 P A A CGCGCCGAGGATGTCTGGTGGGGTGY
93450 T G A AATCCAGCCCACCAGACACTCTACTGCCCTGGCCACCAAGCCACT
93450 T A A AATCCAGCCCACCAGACATTCTACTGCCCTGGCCACCAAGCCACT
93450 IS [GA] GTGAAGGTTCCATTGAGAAGGAAAATGTCAAAGCAGTGGCTTGGTGCCCAGGGCAGTAGAG[GA]TGTCTGGTGGGGTGGGAGAAGGGAGTAAGG GCAGCTGGGGAGTG
93458 I A GAAAAGTGTTCATTTGAACTGAGCCTTATGGAGCAGAAAGATTTTTGAA
93458 P T A CGCGCCGAGGTAGGTCAATCATAAGCATAACATY
93458 P C A ATGACGTGGCAGACCAGGTCAATCATAAGCATAACY
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93468 I A CATCGACATAGGGCACACAGCGGCCT
93468 P A A CGCGCCGAGGAGAAAGGTCCCTGCAGY
93468 P G A ATGACGTGGCAGACGGAAAGGTCCCTGCAY
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93468 T G A TGTGCTGCAGGGACCTTTCCGGCCGCTGTGTGCCCTATGTCGATGCT
93468 IS [AG] CTTTCCTTTCCTCAAAATAAGTTCTTTTGTTCAGCATCGACATAGGGCACACAGCGGCC[AG]GAAAGGTCCCTGCAGCACACCTTGCAGGAGTTGTCAGTTTCTGGAAC AGAGAACACGCAT
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93476 P C A CGCGCCGAGGCTTACATCATTTCCCCAAAGAY
93476 P G A ATGACGTGGCAGACGTTACATCATTTCCCCAAAGY
93476 T C A ATTCTCTTTGGGGAAATGATGTAAGACACCCTAAACAAACAAGAAATTAGTTAAAAGACTCACTCAATGATA
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93480 P T S CGCGCCGAGGAGTATGAAATAGGGCCACTY
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93489 P C S ATGACGTGGCAGACGTCATAATCATTCATGCCAATTY
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FIGURE 129C

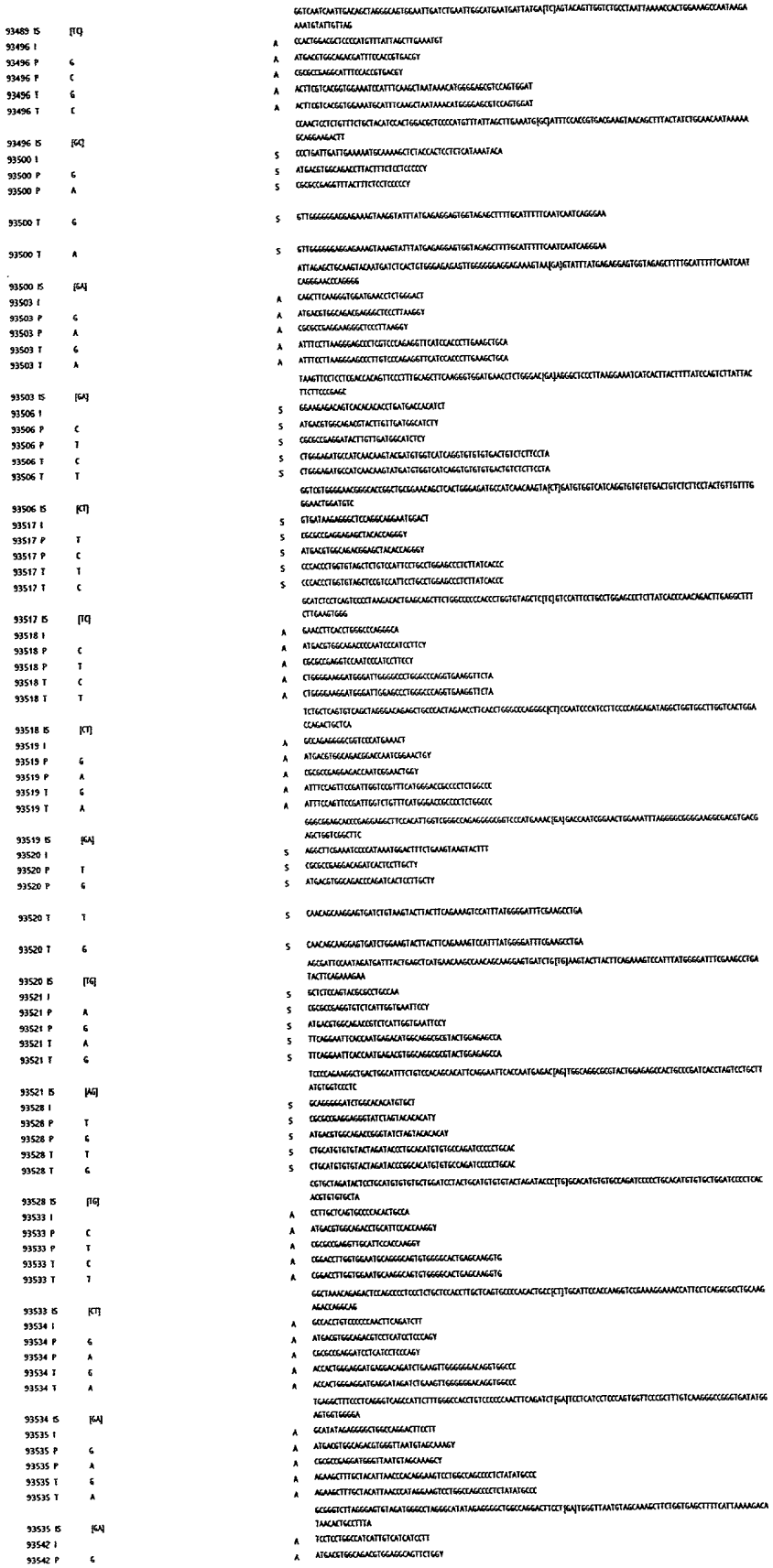


FIGURE 129C

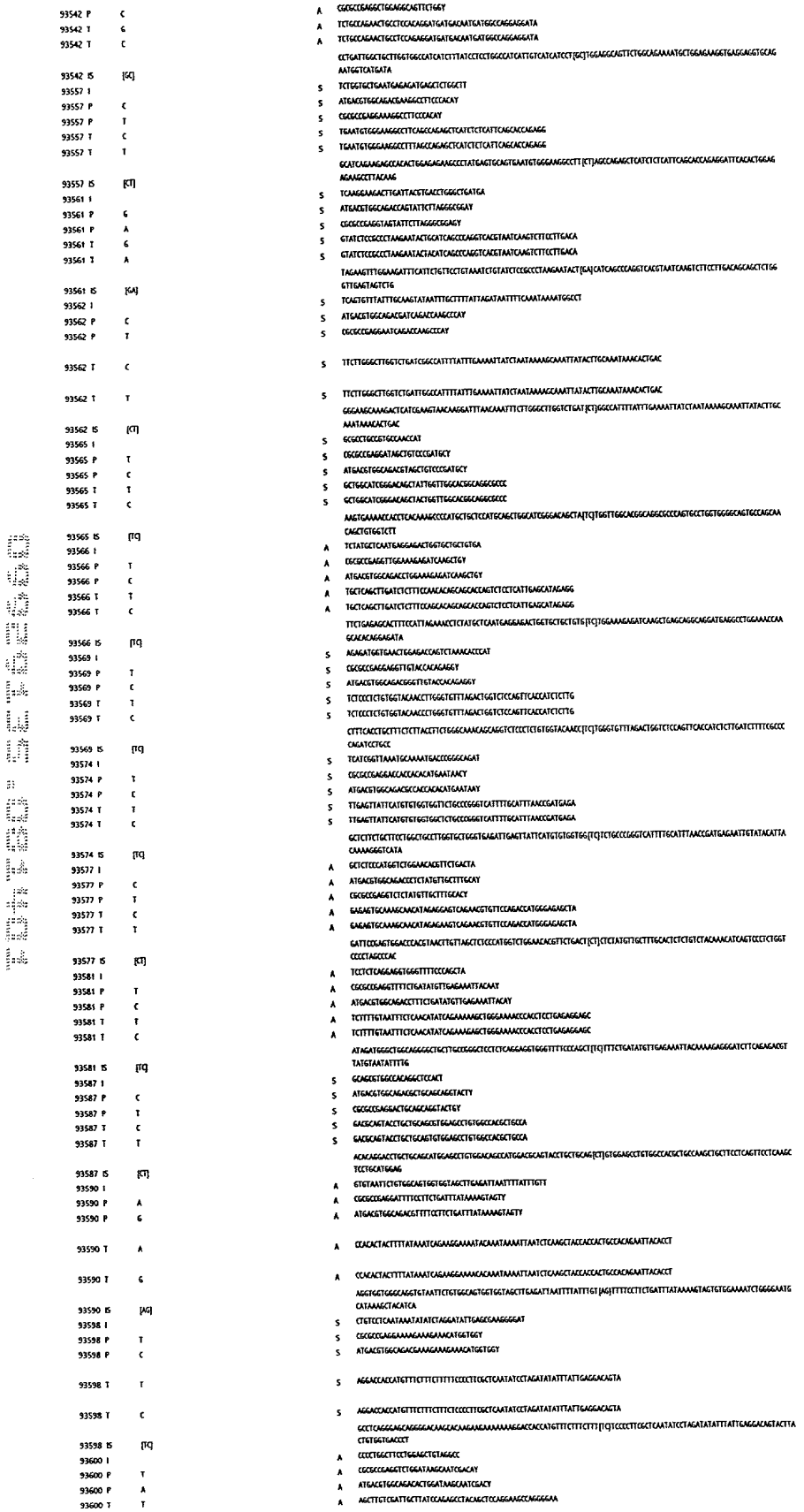
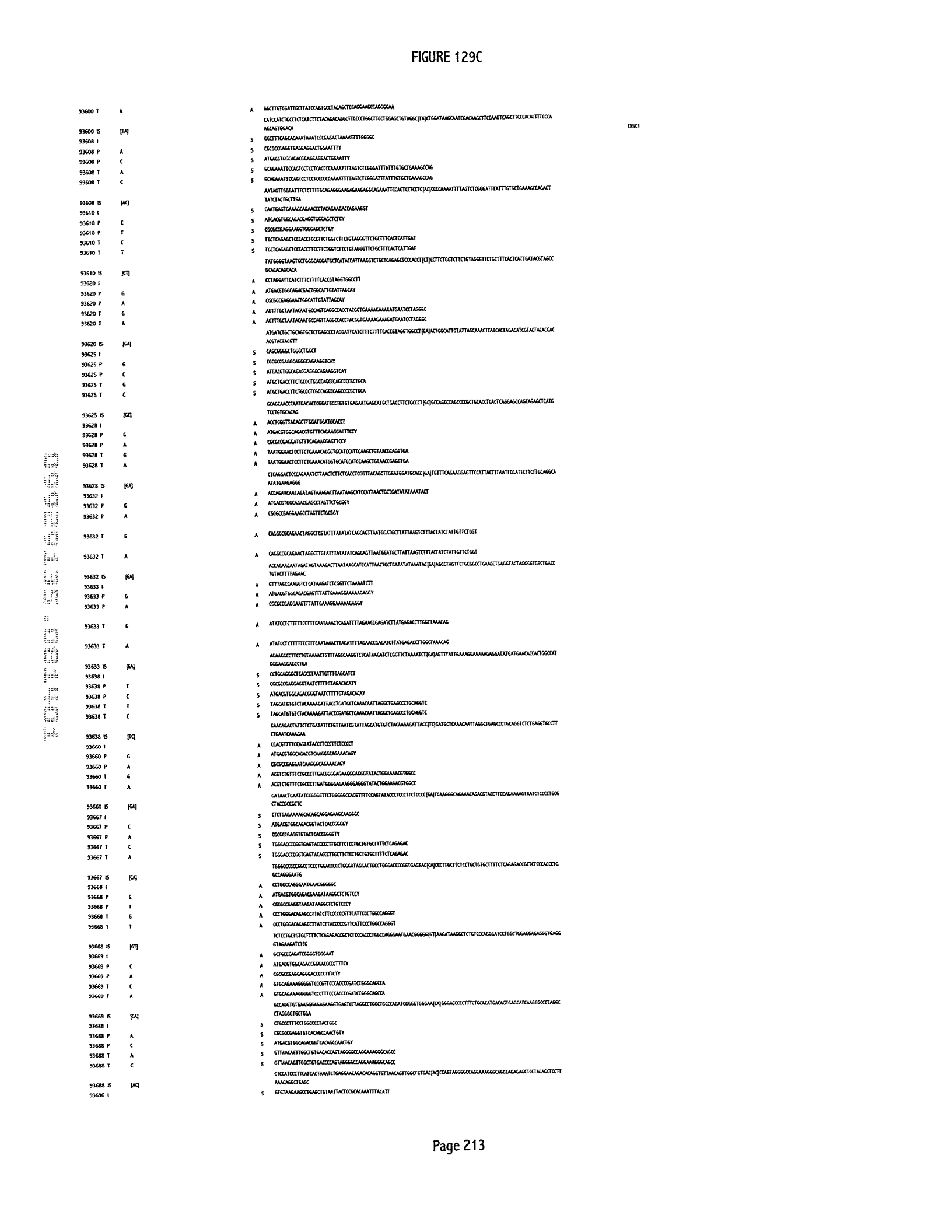

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FIGURE 129C



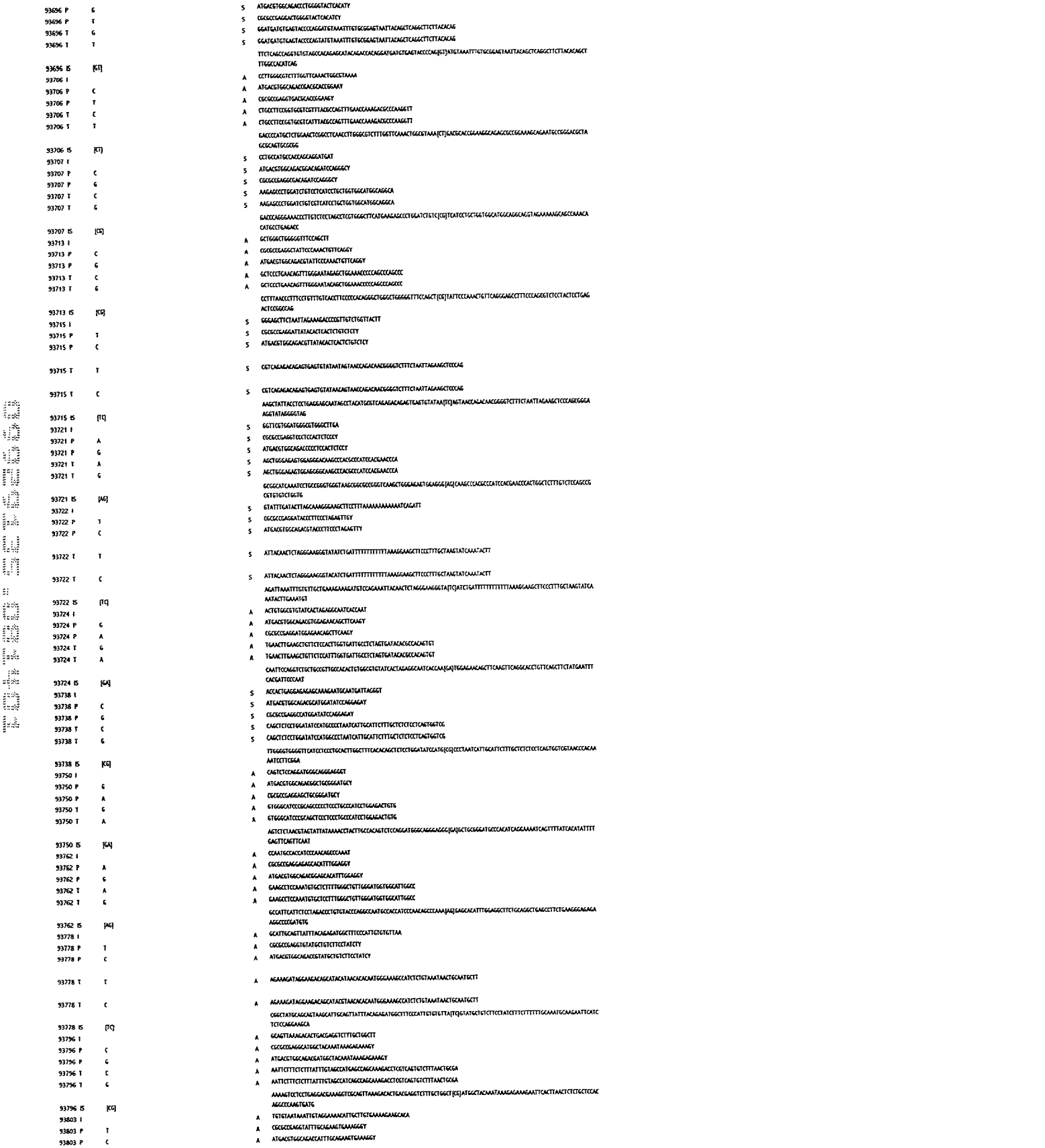
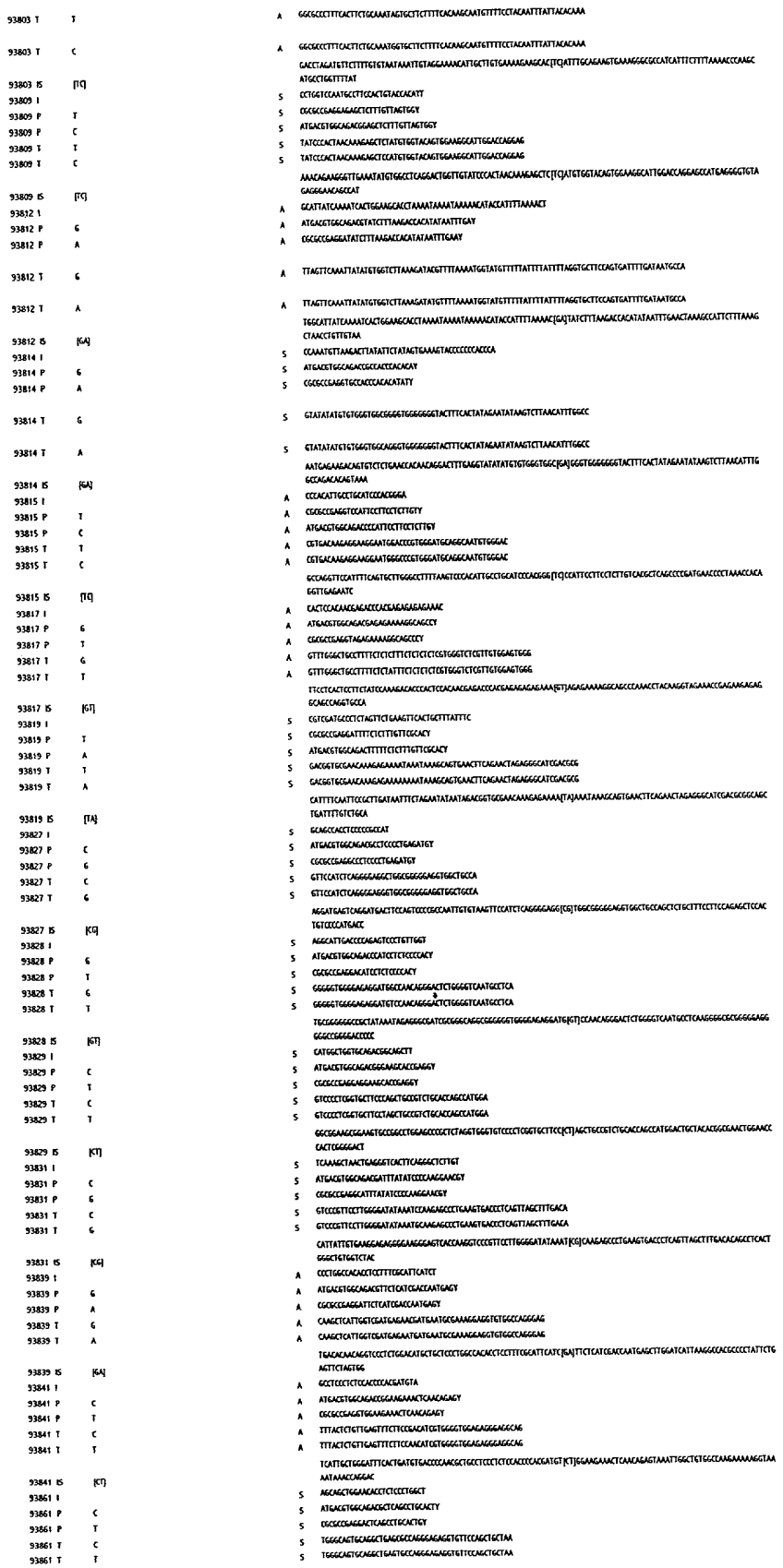

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FIGURE 129C



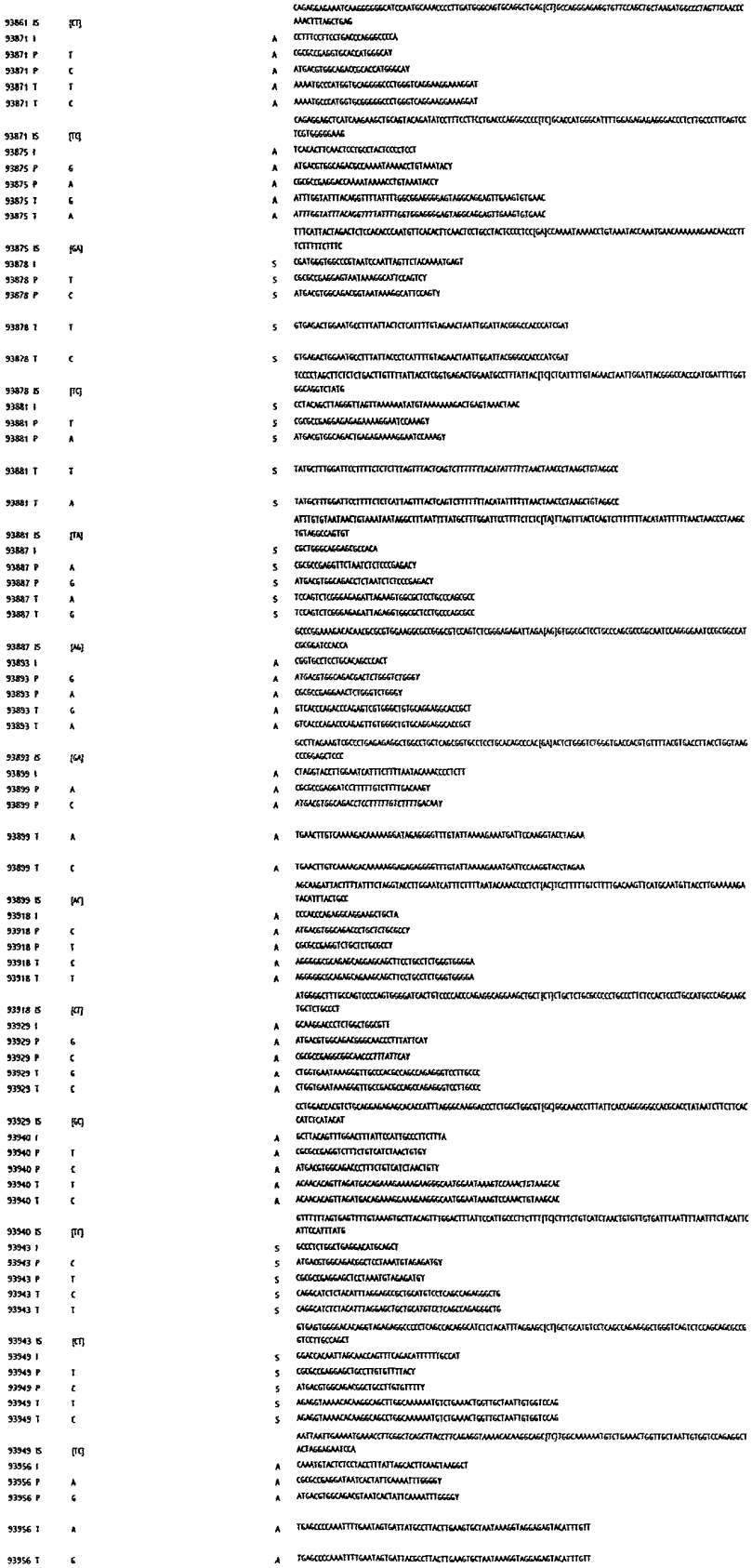
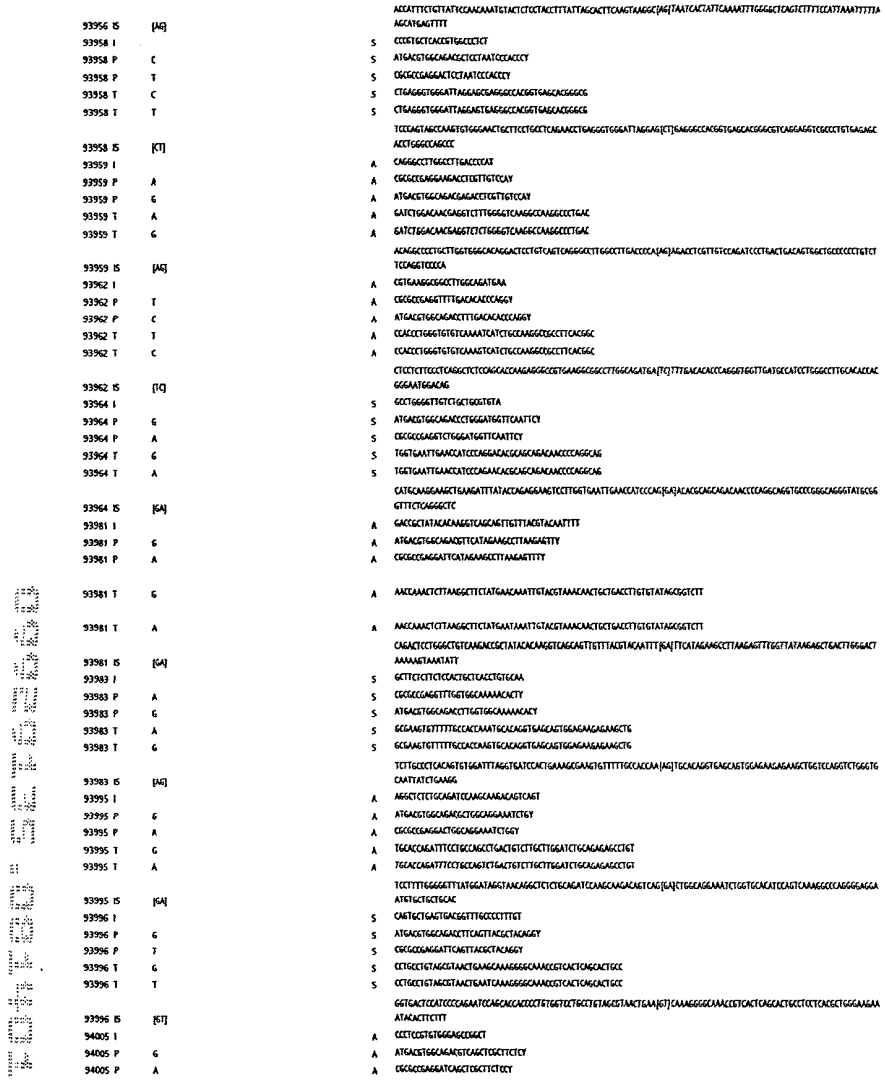


FIGURE 129C



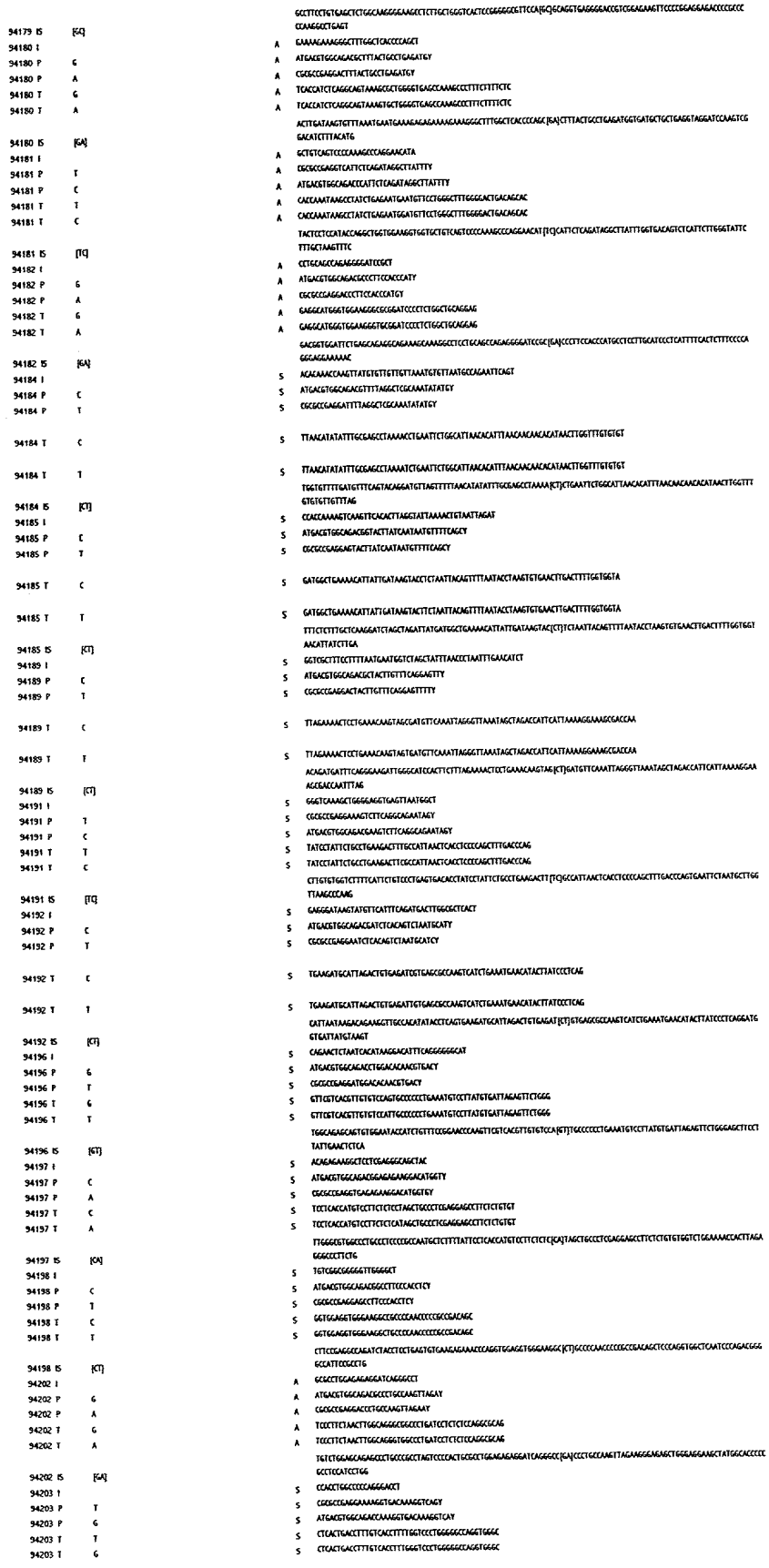


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94100 P T S CGCGCCGAGGATTGCTCCATTGGCATTY
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94100 T T S AGGCAATGCCAATGGAGCAATCTGTGCATTCCCGTTCAAGTTTGAAAACAAGTGGTACGCA
94100 I5 [CT] GTTCAAGTCAATATGTTTTTCCAGCCATGTATACGCTACTAGGCAATGCCAATGGAGCAA[CT]CTGTGCATTCCCGTTCAAGTTTGAAAACAAGTGGTACGCAGATTGCA CGAGTGCTGGGCG
94103 I S GAGGTCCAGTCTTCCCCTGTCAGTACCTGTT
94103 P C S ATCACGTGGCAGACGTGGAGGGAGGATAGAGY
94103 P T S CGCGCCGAGGATGGAGGGAGGATAGAGY
94103 T C S AGCCCTCTATCCTCCCTCCATACAGGTACTGACAGGGGAAGACTGGACCTCAA
94103 T T S AGCCCTCTATCCTCCCTCCATACAGGTACTGACAGGGGAAGACTGGACCTCAA
94103 I5 [CT] CGGTCCCAATAGAACACTCTCAGCCCCCTCTGTGTTCCCGAGCCCTCTATCCTCCCTCCA[CT]ACAGGTACTGACAGGGGAAGACTGGACCTCAATGATGTACAATGGGAT CATGGCCTACGG
94108 I S CTGAACAAAGGGAAAAACGTACTTCATGGGAAATACTAATTGCTCAT
94108 P C S ATGAGTGGCAGACGAGTAAAACACAAACCTAAGACY
94108 P T S CGCGCCGAGGAAGTAAAACACAAACCTAAGACY
94108 T C S ATCAGTCTTAAGGTTTGTGTTTTACTCTGAGCAATTAGTATTTCCCATGAAGTACGTTTTTCCCTTGTTCAGGA
94108 T T S ATCAGTCTTAAGGTTTGTGTTTACTTTGAGCAATTAGTATTTCCCATGAAGTACGTTTTTCCCTTGTTCAGGA
94108 I5 [CT] CTTTCTTTAATACTAGTTTGAAACTTCCTCTCTCATCAGTCTTAAGGTTTGTGTTTTACT[CT]TGAGCAATTAGTATTTCCCATGAAGTACGTTTTTCCCTTGTTCAGGA TGACAGCAAAAA
94109 I S CACACAGCATGGGCCCATGGCTACCT
94109 P T S CGCGCCGAGGAGTGGCTCACTGGTCY
94109 P C S ATGACGTGGCAGACGGTGGCTCACTGGTY
94109 T T S GGCTGACCAGTGAGCCACTGGTAGCCATGGGCCCATGCTGTGTGTC
94109 T C S GGCTGACCAGTGAGCCACCGGTAGCCATGGGCCCATGCTGTGTGTC
94109 I5 [TC] AAGCCACACTCCACCCATTCACTATCAACCAACGTTAAACATGGCTGACCAGTGAGCCAC[TC]GGTAGCCATGGGCCCATGCTGTGTGTCGGGCCCTCTCACCACAGAGAA GGGACTTGCCTG
94114 I S GGGGCCGTGAGAGCACCAACAGTTCAAT
94114 P C S ATGACGTGGCAGACGAACAGTCACCTGTTTGGY
94114 P G S CGCGCCGAGGCAACAGTCACCTGTTTGGY
94114 T C S ATGGCCAAACAGTGACTGTTCTTGAACTGTTGGTGCTCTCACGGCCCCTT
94114 T G S ATGGCCAAACAGTGACTGTTGTTGAACTGTTGGTGCTCTCACGGCCCCTT
94114 I5 [CG] GTTCCAATCTGCAGCAGCAAAAAGTAGCAAACTCTATTTCATGGCCAAACAGGTGACTGTT[CG]TTGAACTGTTGGTGCTCTCACGGCCCCTTCACTAGTTTGGAAAACAG TTTTCCTTTAGTG
94117 I A S AAGGGCAGGCTTGGGTCAGGTTCAGGT
94117 P G A S ATGACGTGGCAGACGAGATGTCTGGGTGCCY
94117 P A A S CGCGCCGAGGAAGATGTCTGGGTGCCY
94117 T G A S TACAGGCACCCAGACATCTCCCTGAACCTGACCCAAGCCTCCCCTTCT
94117 T A A S TACAGGCACCCAGACATCTTCCTGAACCTGACCCAAGCCTCCCCTTCT
94117 I5 [GA] ATCATTCGGGAAACCGTCTACTCAGAAAGTCGAGAAGGGCAAGCCTTGGGTCAGGTTCAGG[GA]AGATGTCTGGGTGCCTGTAGAGAACGCTTCCTCCATTAAACTTCCA TTAAATGGCAGTGC
94132 I S GGGCCTGGGGAGAGGGGTCTTGTTTTA
94132 P G S ATGACGTGGCAGACCTTGCTGTGACATCCTGY
94132 P A S CGCGCCGAGGTTTGCTGTGACATCCTGY
94132 T G S GCTCCAGGATGTCACAGCAAGAAAACAAGACCCCTCTCCCCAGGCCCAG
94132 T A S GCTCCAGGATGTCACAGCAAAAAACAAGACCCCTCTCCCCAGGCCCAG
94132 I5 [GA] CACTTGGGGCAGCAGGGTCCTCAGCACAGTCATTTGGGATGCTCCAGGATGTCACAGCAA[GA]AAAACAACACCCCTCTCCCCAGGCCCAGGGTGCCCTCTCCCCAGCTCC TGCCCCAGTGAT
94144 I S GCCTTCCCCCGCGTCACCCCA
94144 P G S ATGACGTGGCAGACCACCGCCAACCAGTY
94144 P A S CGCGCCGAGGTACCGCCAACCAGTGY
94144 T G S GTCCCACTGGTTGGCGGTGGGGGTGACGCGGGGGAAGGCCC
94144 T A S GTCCCACTGGTTGGCGGTAGGGGTGACGCGGGGGAAGGCCC
94144 I5 [GA] CAGCCCCACACCCACCTGCAGCTCTCAATGATGTTCTTGTAGTCCCACTGGTTGGCGGT[GA]GGGGTGACGCGGGGGAAGGCCCGCGTGGTTGCCTGTAGCTGGAGGC GTTCCGCTGGGCG
94148 I A S CGCCTCCAGGCCTCCCTTTGGTCTCT
94148 P G A S ATGACGTGGCAGACGGTCTGCCCTTCTAAGAY
94148 P A A S CGCGCCGAGGAGTCTGCCCTTCTAAGAAY
94148 T G A S CCATTTCTTAGAAGGGCAGACCGAGACCAAAGGGAGGCCTGGAGGCGTG
94148 T A A S CCATTTCTTAGAAGGGCAGACTGAGACCAAAGGGAGGCCTGGAGGCGTG
94148 I5 [GA] GGTTAGGTGGGAAGGCAGGGCCCTCTTGTCACCACGCCTCCAGGCCTCCCTTTGGTCTC[GA]GTCTGCCCTCTAAGAAATGGGCATGCCCTTATCCAGTCCCCACACCG AAGACCCTACAG
94154 I S CTTGTCCTTGTGGTTACCTGGATATGCTAAGACCCCA
94154 P G S ATGACGTGGCAGACCACTCCTCCCTCTGGY
94154 P A S CGCGCCGAGGAGTCTCCCTCTGGTAY
94154 T G S ATTCTACCAGAGGCAGGAGTGGGGGTCTTAGCATATCCAGGTAACCACAAGCACAAGAA
94154 T A S ATTCTACCAGAGGGAGGAGTAGGGGTCTTAGCATATCCAGGTAACCACAAGCACAAGAA
94154 I5 [GA] CCTGGCAGCTCAGCTCGAGTGGAGAATCGCTCTAAACAGTATTCTACCAGAGGGAGGAGT[GA]GGGGTCTTAGCATATCCAGGTAACCACAAGGACAAGAAACACCATT CTTGCAGCAGATGC
94164 I S CTCCCGTCAAGCGATTGCAATTTCCAACTGCT
94164 P C S ATGACGTGGCAGACGTTGGGATCGATGTTGTCY
94164 P T S CGCGCCGAGGATTGGGATCGATGTTGTCY
94164 T C S CAGTGACAACATCGATCCCAATCAGTTGGAAATTGCAATCGCTTGACGGGAGAA
94164 T T S CAGTGACAACATCGATCCCAATCAGTTGGAAATTGCAATCGCTTGACGGGAGAA
94164 I5 [CT] TAGAAACGGCCCTGTGAGACTTGCCGCCTGTGCCAGTGCAGTGACAACATCGATCCCAA[CT]GCAGTTGGAAATTGCAATCGCTTGACGGGAGAATGCCTGAAGTGCAT CTATAACACTGCT LAMC1
94172 I S AGAAAAACTATGTACACAAAGAAGTAAGTTTTACCATTCAAAAGTGTAAACTGT
94172 P T S CGCGCCGAGGAGGAACTGAGCAAGATTAAGY
94172 P C S ATGACGTGGCAGACGGGAACTGAGCAAGATTAAY
94172 T T S ATTACTTAATCTTGCTCAGTTCCTCAGTTTACACTTTTGAATGGTAAAACTTACTCTTTGTGTACATAGTTTTTCTGT
94172 T C S ATTACTTAATCTTGCTCAGTTCCCCAGTTTACACTTTTGAATGGTAAAACTTACTCTTTGTGTACATAGTTTTTCTGT
94172 I5 [TC] TGTTTAATTTTTTTTTACTCCTTAAAAATTCAGACATCCATTACTTAATCTTGCTCAGTTCC[TC]CAGTTTACACTTTTGAATGGTAAAACTTACTTCTTTGTGTACATAGTT TTTCTGTGTGCA
94175 I S GGCCTTCCTTCCAGGAGTAGAAAAGGCCACT
94175 P C S ATGACGTGGCAGACGTTGCCCCCAGTGAY
94175 P T S CGCGCCGAGGATTGCCCCCAGTGAGY
94175 T C S TCCCCTCACTGGGGGCAACGTGGCCTTTTCTACCCTGGAAGGAAGGCCCA
94175 T T S TCCCCTCACTGGGGGCAATGTGGCCTTTTCTACCCTGGAAGGAAGGCCCA
94175 I5 [CT] CGAGCAGCAGGCCTGTGTACTCATGAATTCAGTGACATTTCTCCCCTCACTGGGGGCAA[CT]GTGGCCTTTTCTACCCTGGAAGGAAGGCCCAGCGCCTATAACTTTGAC AATAGCCCTGTG LAMC1
94179 I S TTCTCCGACGGTCCCCTCACCTGCT
94179 P G S CGCGCCGAGGCTGGAACGCCCCCY
94179 P C S ATGACGTGGCAGACGTGGAACGCCCCY
94179 T G S CTCCGGGGGCGTTCAGGCAGGTGAGGGGACCGTCGGAGAAGT
94179 T C S CTCCGGGGGCGTTCCAGCAGGTCAGGGGACCGTCGGAGAAGT

FIGURE 129C



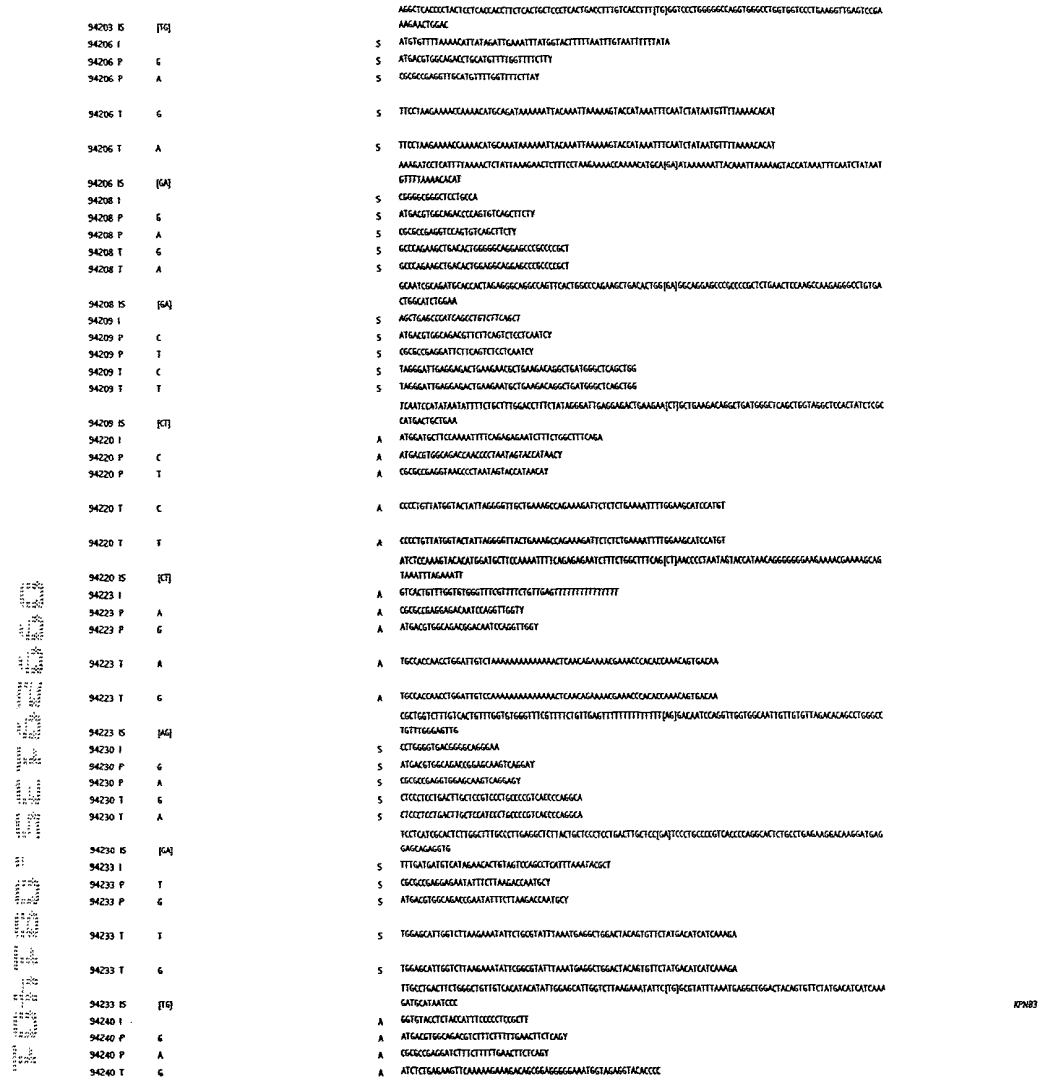
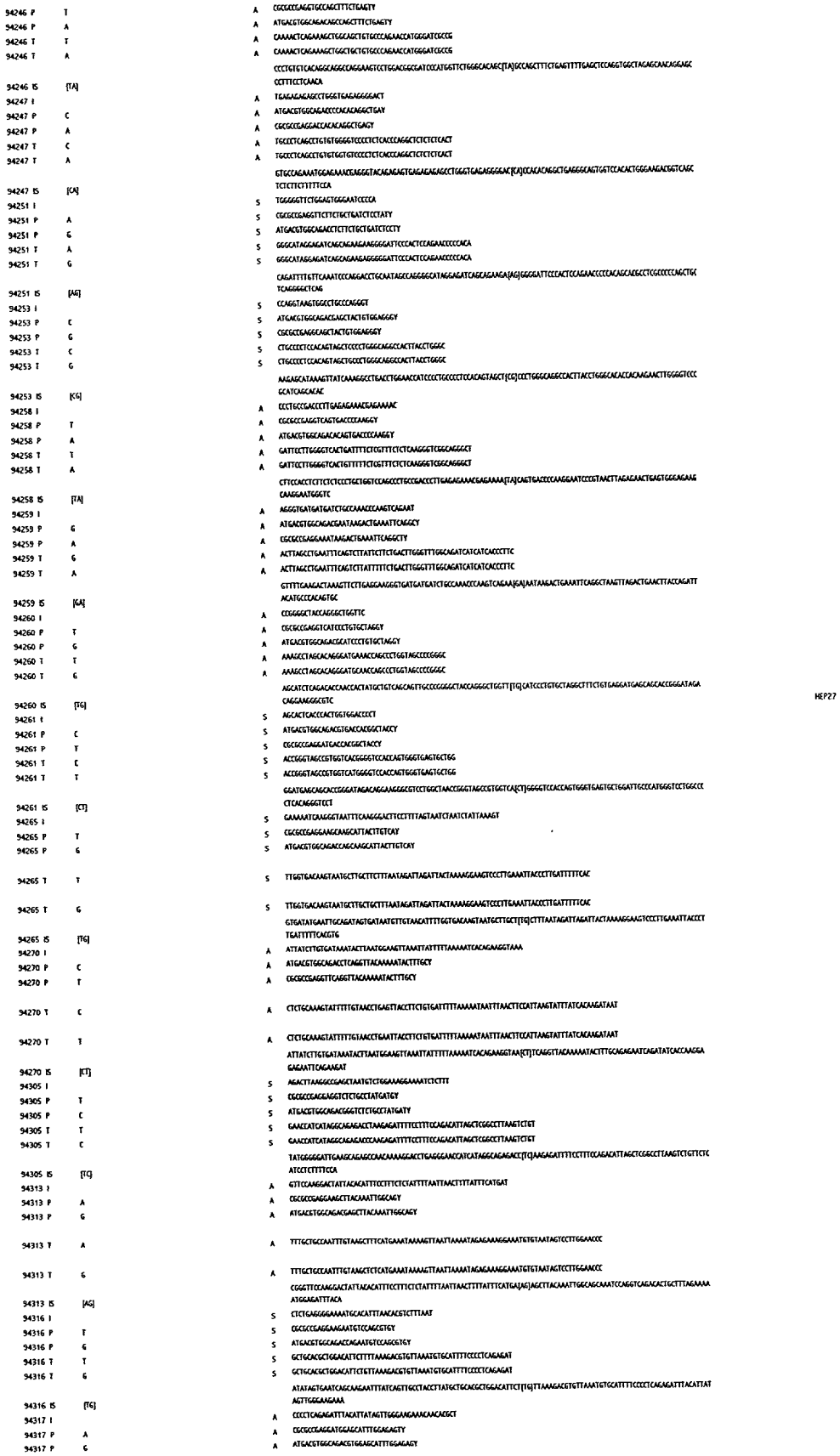


FIGURE 129C



HEP27

FIGURE 129C



FIGURE 129C

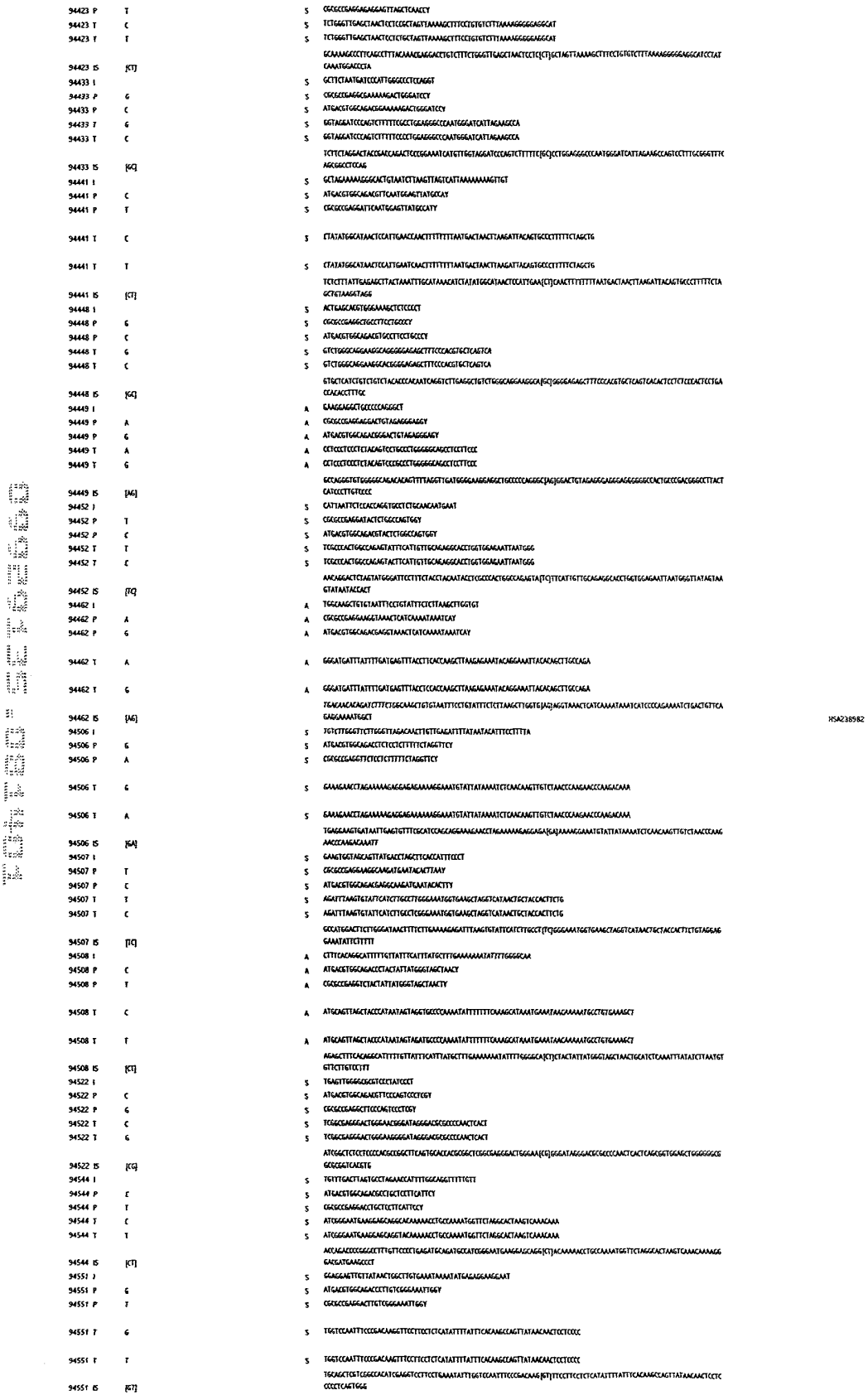


FIGURE 129C

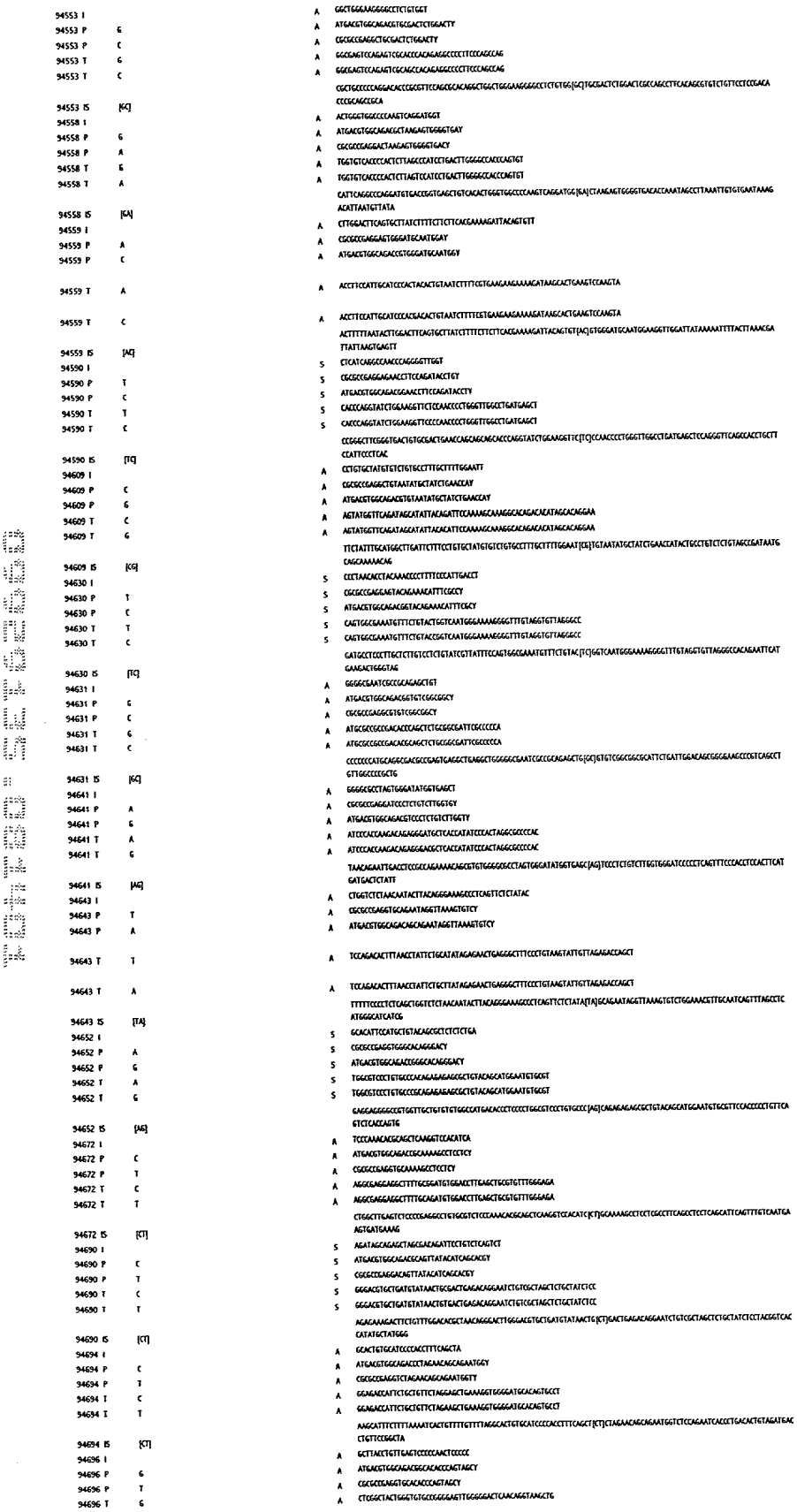


FIGURE 129C

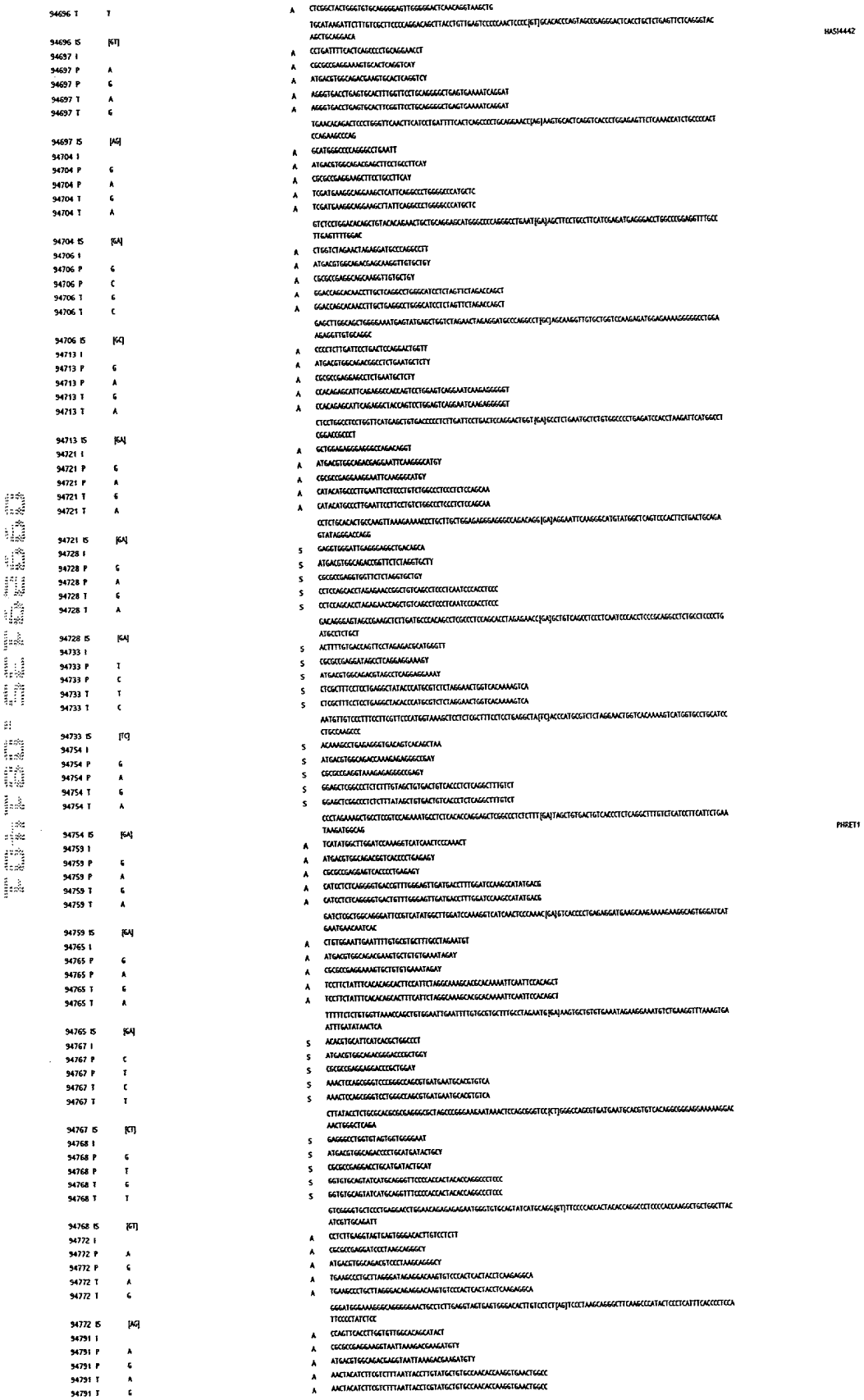
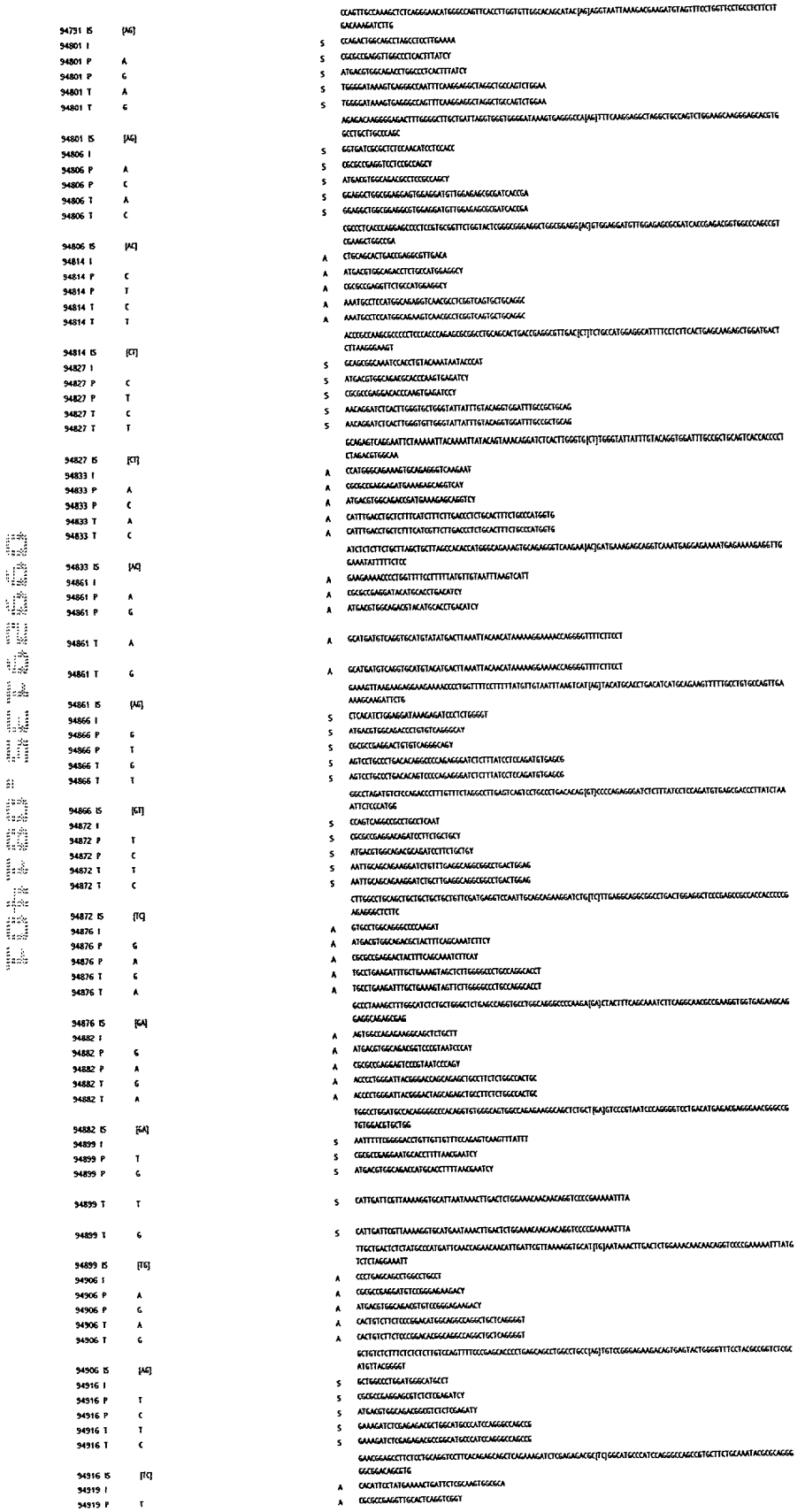


FIGURE 129C


94731 IS [AG]
94801 I
94801 P A
94801 P G
94801 T A
94801 T G
94801 IS [AG]
94806 I
94806 P A
94806 P C
94806 T A
94806 T C
94806 IS [AC]
94814 I
94814 P C
94814 P T
94814 T C
94814 T T
94814 IS [CT]
94827 I
94827 P C
94827 P T
94827 T C
94827 T T
94827 IS [CT]
94833 I
94833 P A
94833 P C
94833 T A
94833 T C
94833 IS [AC]
94861 I
94861 P A
94861 P G
94861 T A
94861 T G
94861 IS [AG]
94866 I
94866 P G
94866 P T
94866 T G
94866 T T
94866 IS [GT]
94872 I
94872 P T
94872 P C
94872 T T
94872 T C
94872 IS [TC]
94876 I
94876 P G
94876 P A
94876 T G
94876 T A
94876 IS [GA]
94882 I
94882 P G
94882 P A
94882 T G
94882 T A
94882 IS [GA]
94899 I
94899 P T
94899 P G
94899 T T
94899 T G
94899 IS [TG]
94906 I
94906 P A
94906 P G
94906 T A
94906 T G
94906 IS [AG]
94916 I
94916 P T
94916 P C
94916 T T
94916 T C
94916 IS [TC]
94919 I
94919 P T



```
94967 I                 S  CACCTGACCTAGATTGAATCCATGCATTGAAAGACAATCACAGT
94967 P  T              S  CGCGCCGAGGAAAAGTGCAGGAAACTTTTTATAATY
94967 P  G              S  ATGACGTGGCAGACCAAGTGCAGGAAACTTTTTATAAY

94967 7  7              S  TTTTATTATAAAAAGTTTCCTGCACTTTCTGTGATTGTCTTTCAATGCATGGATTCAATCTAGGTCAGGTGCT

94967 7  G              S  TTTTATTATAAAAAGTTTCCTGCACTTGCTGTGATTGTCTTTCAATGCATGGATTCAATCTAGGTCAGGTGCT

                           CCAATGCAGTCTAACCTGCAGAGTCAAATTTATTTATTATAAAAAGTTCCTGCACTT[TG]CTGTGATTGTCTTTCAATGCATGGATTCAATCTAGGTCAGGTGCTTC
94967 IS  [TG]              CATAGGAAGAGTC
94969 I                 S  TGATGTGTGCTTCCTGGGCTTCCAGCAT
94969 P  G              S  CGCGCCGAGGCCTGCACAGAAAGGGY
94969 P  C              S  ATGACGTGGCAGACGCTGCACAGAAAGGGY
94969 T  G              S  TCACCCCTTTCTGTGCAGGTGCTGCAAGCCCAGGAAGCACACATCAAG
94969 T  C              S  TCACCCCTTTCTGTGCAGCTGCTGCAAGCCCAGGAAGCACACATCAAG

                           TGGAGTTGTGCTGCACAGTGGTGGCTGCTCATGACATTCATTTCACCCCTTTCTGTGCAG[GC]TGCTGGAAGCCCAGGAAGCACACATCAAGGCTCCCTTGCCAGCAGGG
94969 IS  [GC]              TGCTGCCATAAA
94971 I                 A  CATGTATGCATGGATGCTGTGTGTGTCTTCACTGTCATCT
94971 P  G              A  ATGACGTGGCAGACGTGGCCTACAGCATCAY
94971 P  A              A  CGCGCCGAGGATGGCCTACAGCATCAY
94971 T  G              A  CAAGTGATGCTGTAGGCACGATGACAGTGAAGACACACAGCATCCATGCATACATGGC
94971 T  A              A  CAAGTGATGCTGTAGGCCATGATGACAGTGAAGACACACAGGATCCATGCATACATGGC

                           GCCTTCCAGTACGAGTTTGGAGCCATGTATGCATGGATGCTGTGTGTCTTCACTGTCATC[AG]TGGCCTACAGCATCACTTGTCCCATCATCGCGCCATTTGGTGAGTGGC
94971 IS  [GA]              CCTGGAGCCTGT
94972 I                 S  CACAAGGGTTACACCTGCACTCGGGCTAGT
94972 P  G              S  CGCGCCGAGGCTTAGGAGCCAGGCTY
94972 P  C              S  ATGACGTGGCAGACGTTAGAGAGCCAGGCTY
94972 T  G              S  TGACAGCCTGGCTCCTAAGCTAGCCCGAGTGCAGGTGTAACCCTTGTGAA
94972 T  C              S  TGACAGCCTGGCTCCTAACCTAGCCCGAGTGCAGGTGTAACCCTTGTGAA

                           AAAACATGATACCCAGGGTGAGGGGCTGGTTGGGTGTGGTGTTGACAGCCTGGCTCCTAA[GC]CTAGCCCGAGTGCAGGTGTAACCCTTGTGAAGGCCTGGTCAATGT
94972 IS  [GC]              CCCATACATCCCTG
94974 I                 S  GATGAAGAAGATCCCTGAAGACAGGAGTAACTGAGACAAAGT
94974 P  G              S  ATGACGTGGCAGACTGAGGCTAGCAATAGAGAGY
94974 P  T              S  CGCGCCGAGGAGAGGCTAGCAATAGAGAGY

94974 T  G              S  TTGTCTCTCTATTGCTAGCCTCTCCTTTGTCTCAGTTACTCCTCTCTTCAGGGATCTTCTTCATCCC

94974 T  T              S  TTGTCTCTCTATTGCTAGCCTCTCCTTTGTCTCAGTTACTCCTCTCTTCAGGGATCTTCTTCATCCC

                           ACCTTTTCATGATGATATACCAAAGGTCTAATTCCCTCACTTGTCTCTCTATTGCTAGCCTC[GT]CCTTTGTCTCAGTTACTCCTCTCTTCAGGGATCTTCTTCATCCCACCAC
94974 IS  [GT]              TTCTCAAAATT
94975 I                 A  GGACAGGATCATGGAGGGTGTGGTCAGGAAAAAA
94975 P  T              A  CGCGCCGAGGTAGCCCCAGGAAGAGY
94975 P  C              A  ATGACGTGGCAGACCAGCCCCAGGAAGAGY
94975 T  T              A  CACCCTCTTCCTGGGGCTATTTTTCCTGACCACACCCTCCATCATCCTGTCCAC
94975 T  C              A  CACCCTCTTCCTGGGGCTGTTTTTCCTGACCACACCCTCCATCATCCTGTCCAC

                           TTTGGTGACATTAAACTTGTCCATGGTGGAGACAGGATGATGGAGGGTGTGGTCAGGAAAAA[TC]AGCCCCAGGAAGAGGGTGAAGTTGATGCCCAGCCACTGTAGCCACC
94975 IS  [TC]              AGCGGAGGCCCTGG                                                                                                                                                  XAA40792
94976 I                 S  CAGCTCCATGCCATTGCCGATGAAGGCA
94976 P  G              S  ATGACGTGGCAGACCGAGGCGATGACATAGTY
94976 P  A              S  CGCGCCGAGGTGAGGCGATGACATAGTY
94976 T  G              S  GTGAACTATGTCATCGCCTCGGCCTTCATCGGCAATGGCATGGAGCTGCT
94976 T  A              S  GTGAACTATGTCATCGCCTCAGCCTTCATCGGCAATGGCATGGAGCTGCT

                           CCCCAGGTGGTCTTCTCGCCTGACCAGGGTGCCTTCTTTGTGAACTATGTCATCGCCTC[GA]GCCTTCATCGGCAATGGCATGGAGCTGCTGCGGCTGCCAGGTCTCATC
94976 IS  [GA]              CTCTATACCTTC
94977 I                 A  CCTGTTGGGTGGAACGAAGGGAGCACC
94977 P  T              A  CGCGCCGAGGTAGCAAACAGCATCACY
94977 P  G              A  ATGACGTGGCAGACGAGCAAACAGCATCAY
94977 T  T              A  CATGGTGATGCGTGTTTGCTAGTGCTCCCTTCGTTCCACCCAACAGGCA
94977 T  G              A  CATGGTGATGCGTGTTTGCTCGTGCTCCCTTCGTTCCACCCAACAGGCA

                           CCCTGACCACCTCTTCCCTCCAGGGCTCACATGCCTGTTGGGTGGAACGAAGGGAGCAC[TG]AGCAAACACGCATCACCATGCCTCCGGGAGGGCTGGGTGCACTGAGTG
94977 IS  [TG]              AAGCAGGGCAGGC
94978 I                 A  CCTGCTCTCCCATCACCACTTAGAGAGCACAT
94978 P  A              A  CGCGCCGAGGAAAGGGTGTTTGAGGTGY
94978 P  G              A  ATGACGTGGCAGACGAAGGGTGTTTGAGGTGY
94978 T  A              A  GTTCCACCTCAAACACCCTTTTGTGCTCTCTAAGTGGTGATGGGAGAGCAGGGT
94978 T  G              A  GTTCCACCTCAAACACCCTTCTGTGCTCTCTAAGTGGTGATGGGAGAGCAGGGT

                           CATCTCCTATTTCCAAAGTCCTCCTCCACCCTGCTCTCCCATCACCACTTAGAGAGCACA[AG]AAGGGTGTTTGAGGTGGAACAAGTCCATGAGCTCCTCACCACCTCCTCC
94978 IS  [AG]              TCCCAGAACCA
94981 I                 A  ACAAGGGTGAGGAGGGTCATTACCCAGCAAT
94981 P  G              A  ATGACGTGGCAGACGTCCCCTGAGAGGTTGY
94981 P  A              A  CGCGCCGAGGATCCCCCTGAGAGGTTGY
94981 T  G              A  CTGTCAACCTCTCAGGGGACTTGCTGGGTAATGACCCTCCTCACCCTTGTCT
94981 T  A              A  CTGTCAACCTCTCAGGGGATTTGCTGGGTAATGACCCTCCTCACCCTTGTCT

                           GCACTGCCACTCTGCCCCATTACAACATAGACAAGGGTGAGGAGGGTCATTACCCAGCAA[GA]TCCCCTGAGAGGTTGACAGGCAGGATGACACACAGGGACAAAAAGC
94981 IS  [GA]              TGACCACACACAAC
94982 I                 A  GGGGAGTCCATCATCGCGCCTGTCA
94982 P  T              A  CGCGCCGAGGTTCCCTGGAGCACAGY
94982 P  C              A  ATGACGTGGCAGACCTCCCTGGAGCACAGY
94982 T  T              A  TGTCCTGTGCTCCAGGGAAGACAGGCGCGATGATGGACTCCCCGT
94982 T  C              A  TGTCCTGTGCTCCAGGGAGGACAGGCGCGATGATGGACTCCCCGT

                           ATGGACACTGCCTTGGACTGCCACAGCTCCAGGAACGGGGAGTCCATCATCGCGCCTGTC[TC]TTCCCTGGAGCACAGCACAACAGGACAAGGCAGCAGTTCAGGGCTCAA
94982 IS  [TC]              ATTTCTTGCAGGT
94983 I                 S  TCCCGGACTCCTGCTGCTGGCTA
94983 P  G              S  ATGACGTGGCAGACCACTGCCCGATCAGTY
94983 P  A              S  CGCGCCGAGGTACTGCCCGATCAGTCY
94983 T  G              S  CAGGGACTGATCGGGCAGTGAGCCAGCAGCAAGGAGTCCGGGAGA
94983 T  A              S  CAGGGACTGATCGGGCAGTAAGCCAGCAGCAAGGAGTCCGGGAGA

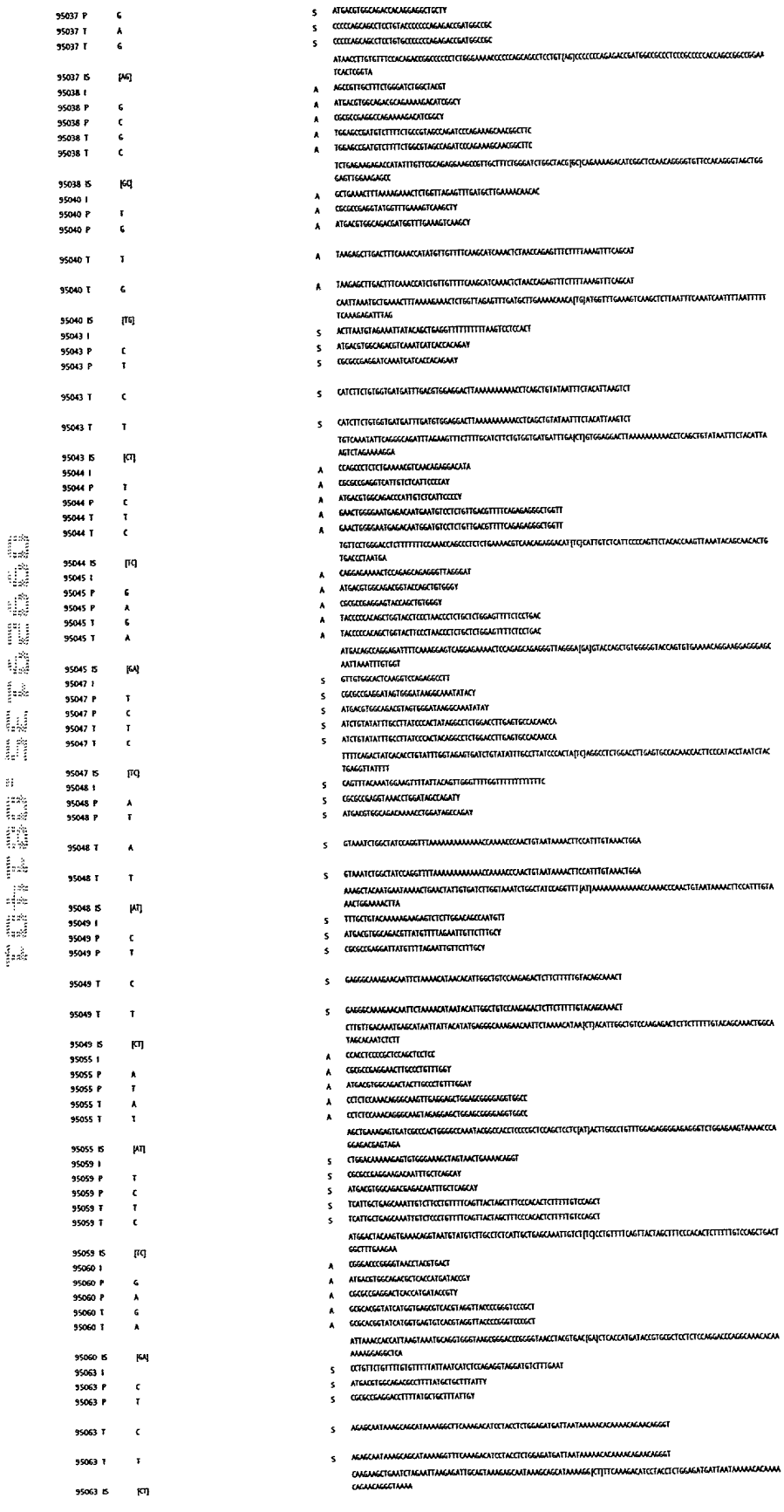
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94986 I                 A  CCTGGCAAAACAGTGTCTGCCTGTGGCT
94986 P  A              A  CGCGCCGAGGATGTCATGCCCACAGY
94986 P  G              A  ATGACGTGGCAGACGTGTTCATGCCCACAGY
94986 T  A              A  TGAGCTGTGGGCATGAACATGCCACAGGCAGACACTGTTTTGCCAGGGT
94986 T  G              A  TGAGCTGTGGGCATGAACAGCCACAGGCAGACACTGTTTTGCCAGGGT

                           CAGATCCACAGGACCCTCCGTGTTTCTTAAAACCCTGGCAAAACAGTGTCTGCCTGTGGC[AG]TGTTCATGCCCACAGCTCAACAACACACTAGCTGCAAGGGGCCTTCAG
94986 IS  [AG]              ATACCAGCCGGC
94987 I                 S  AGGCCAGAGGTACTCCAAGGGGGCA
94987 P  G              S  ATGACGTGGCAGACGGCTGGTATCTGAAGY
94987 P  A              S  CGCGCCGAGGTGGCTGGTATCTGAAGY
94987 T  G              S  GGGGCCTTCAGATACCAGCCGCCCCCTTTGGAGTACCTCTGGCCTGC
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FIGURE 129C



FIGURE 129C



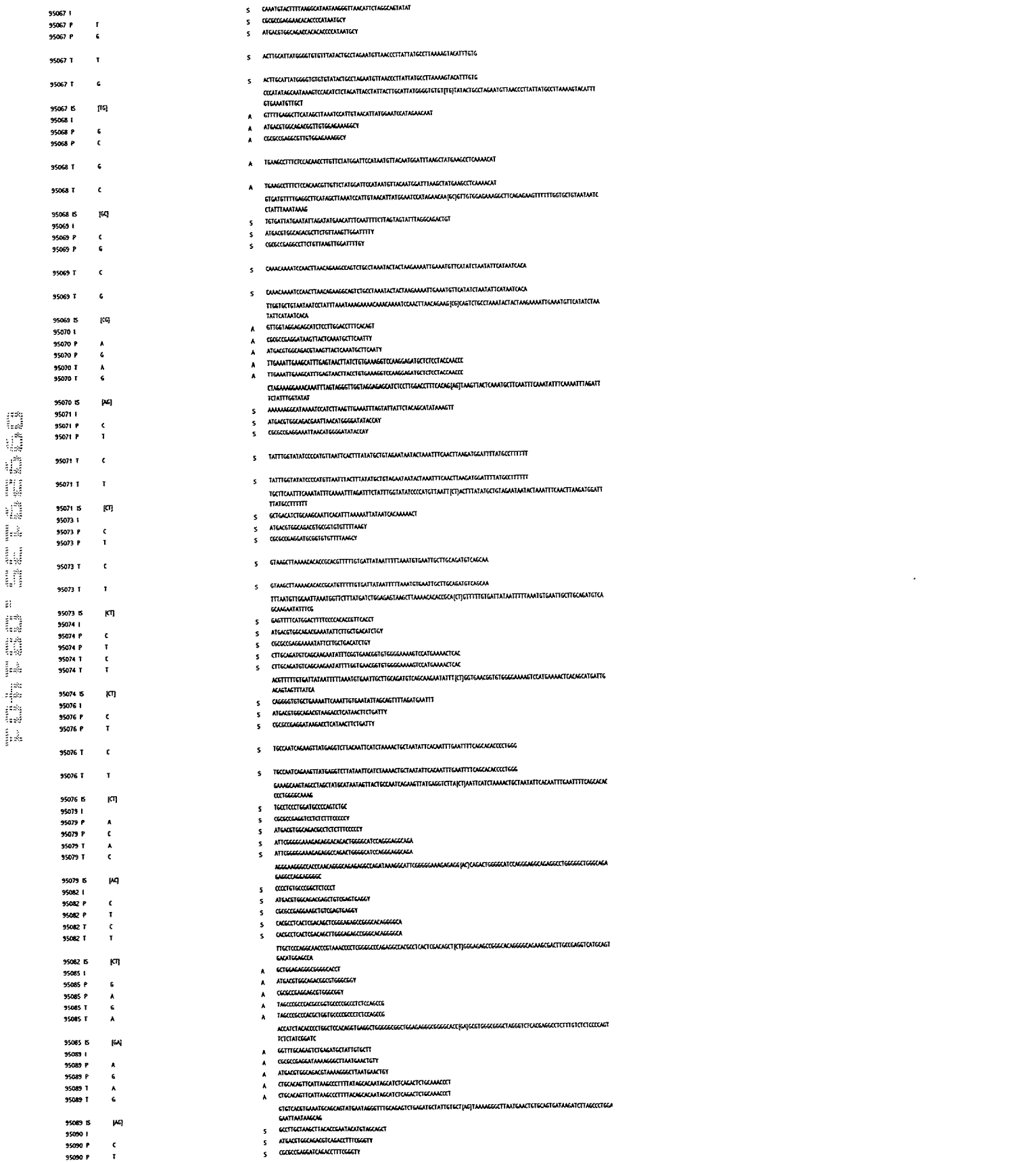


FIGURE 129C

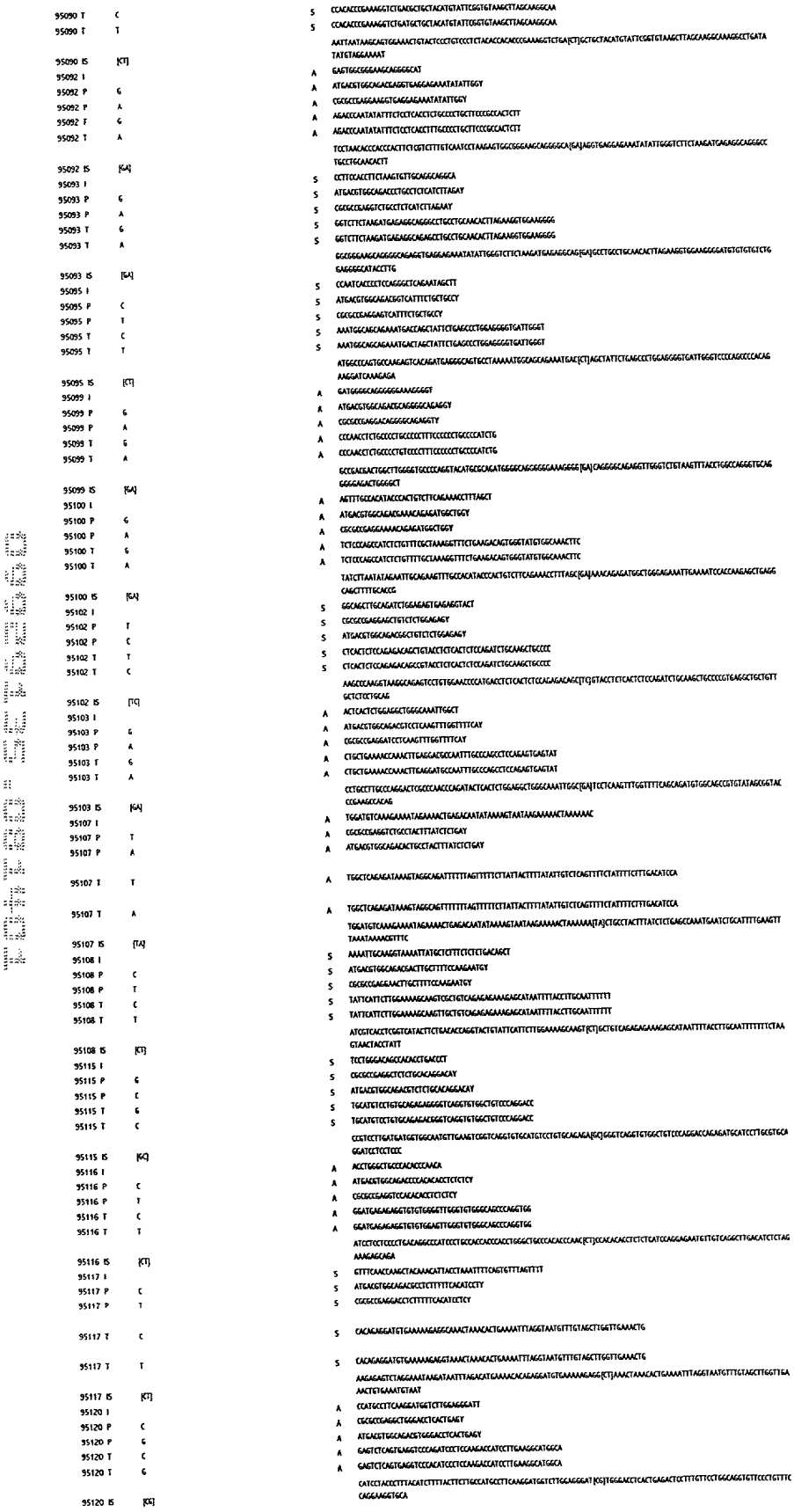
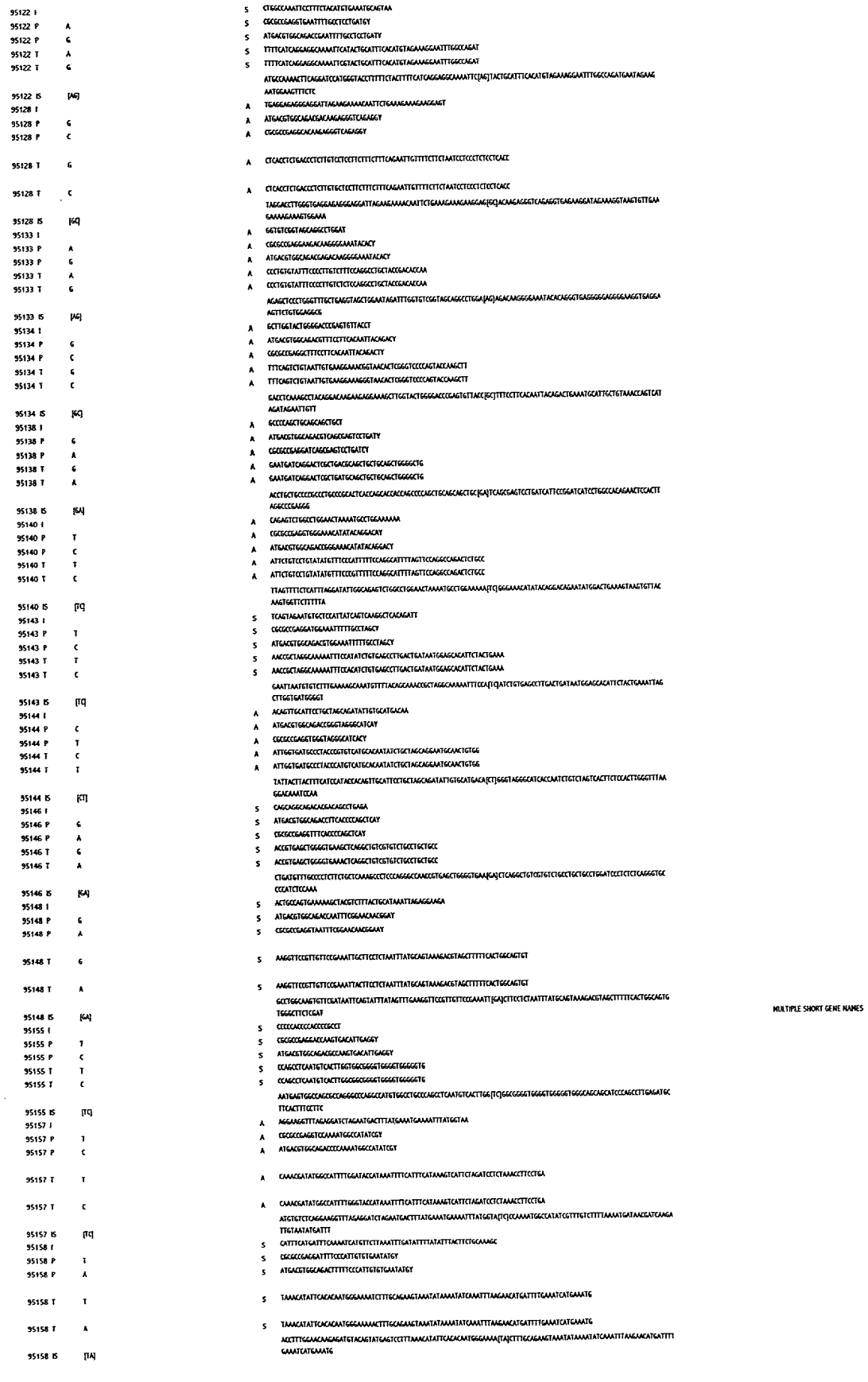


FIGURE 129C



MULTIPLE SHORT GENE NAMES



FIGURE 129C

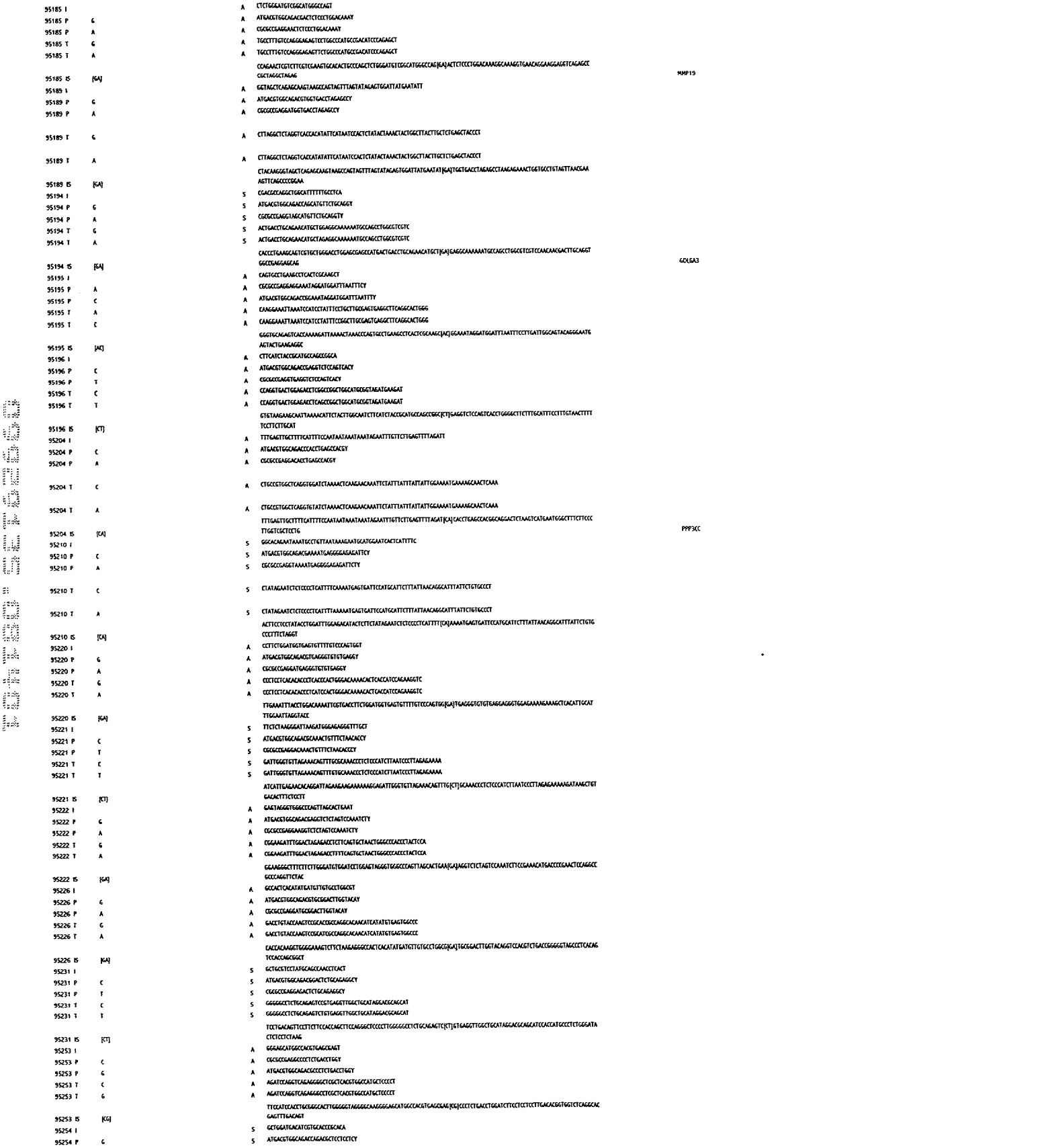
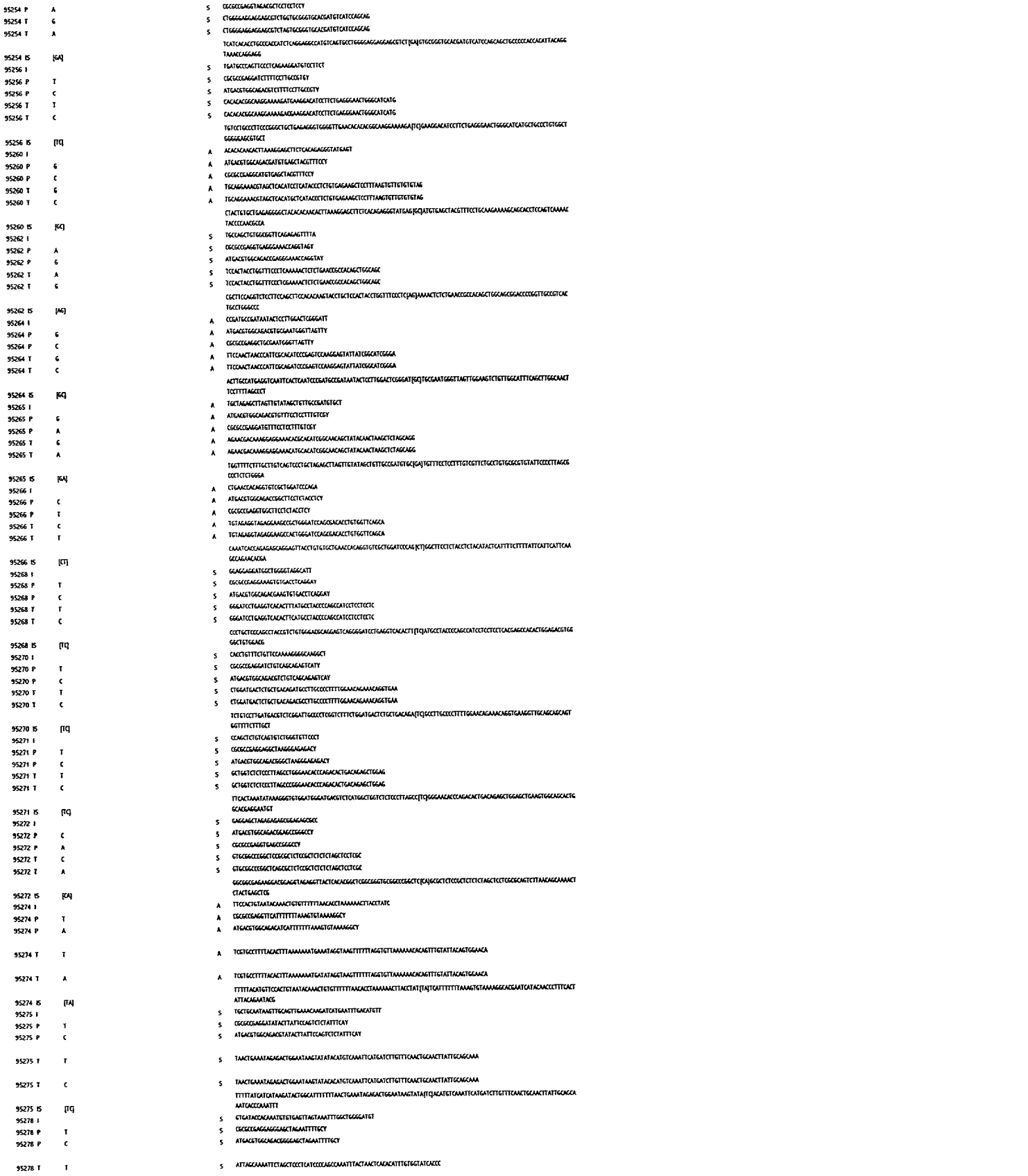


FIGURE 129C


95254 P A
95254 T G
95254 T A
95254 IS [GA]
95256 I
95256 P T
95256 P C
95256 T T
95256 T C
95256 IS [TC]
95260 I
95260 P G
95260 P C
95260 T G
95260 T C
95260 IS [GC]
95262 I
95262 P A
95262 P G
95262 T A
95262 T G
95262 IS [AG]
95264 I
95264 P G
95264 P C
95264 T G
95264 T C
95264 IS [GC]
95265 I
95265 P G
95265 P A
95265 T G
95265 T A
95265 IS [GA]
95266 I
95266 P C
95266 P T
95266 T C
95266 T T
95266 IS [CT]
95268 I
95268 P T
95268 P C
95268 T T
95268 T C
95268 IS [TC]
95270 I
95270 P T
95270 P C
95270 T T
95270 T C
95270 IS [TC]
95271 I
95271 P T
95271 P C
95271 T T
95271 T C
95271 IS [TC]
95272 I
95272 P C
95272 P A
95272 T C
95272 T A
95272 IS [CA]
95274 I
95274 P T
95274 P A
95274 T T
95274 T A
95274 IS [TA]
95275 I
95275 P T
95275 P C
95275 T T
95275 T C
95275 IS [TC]
95278 I
95278 P T
95278 P C
95278 T T

95278 T C
S ATTAGCAAAATTCTAGCTCCCCCATCCCCAGGCAAATTTACTAACTCACACATTTGTGGTATCACCC
TTTCCCTTTTTACAATATATACCATGAACATCCCCACAAATTAGCAAAATTCTAGCTCCC[TC]CATCCCCAGCCAAATTTACTAACTCACACATTTGTGGTATCACCCGTG
ATTCAGTCATTT
95278 IS [TC]
95279 I
S AACATCAGAGAATCCATACTAAAGAGCATTTATAATAATTATATGTGATAGAGATTTTCCT
95279 P C
S ATGACGTGGCAGACGCAGGCCAAAGTCTCY
95279 P T
S CGCGCCCAGGACAGGCTAAAGTCTCAY
95279 T C
S CTAGTGAGACTTTGGCCTGCGGAAAATCTCTATCACATATAATTATTATAAATGCTCTTTAGTATGGATTCTCTGATGTT
95279 T T
S CTAGTGAGACTTTGGCCTGTGAAAATCTCTATCACATATAATTATTATAAATGCTCTTTAGTATGGATTCTCTGATGTT
ACGTTACATTTGTATGGTTTCATCAAAAAGTTTTTGATGCCTAGTGAGACTTTGGCCTG[CT]GGAAAATCTCTATCACATATAATTATTATAAATGCTCTTTAGTATG
95279 IS [CT] GATTCTCTGATGTT ZNF83
95280 I
S AGACAGAACAATCCCCCGAGAATATCATCTCACCTGAT
95280 P T
S CGCGCCGAGGAGAAGAGCCATCCCTGY
95280 P C
S ATGACGTGGCAGACGGAAGAGCCATCCCTY
95280 T T
S GAGTCAGGGATGGCTCTTCTTCAGGTGAGATGATATTCTCGGGGGATTGTTCTGTCTCC
95280 T C
S GAGTCAGGGATGGCTCTTCCTCAGGTGAGATGATATTCTCGGGGGATTGTTCTGTCTCC
TACGTGAGCAAAAAACACGGAAGAGCAAGAGGAAAGCAAAGGAGTCAGGGATGGCTCTTC[TC]TCAGGTGAGATGATATTCTCGGGGGATTGTTCTGTCTCCTTCCTTT
95280 IS [TC] CAGAAATGCTGATC
95283 I
A GCTTGCGATGCAGAATGCCCAGCCT
95283 P A
A CGCGCCGAGGATGCCCCATCAACGTY
95283 P G
A ATGACGTGGCAGACGTGCCCCATCAACGY
95283 T A
A CACGACGTTGATGGGGCATGGCTGGGCATTCTGCATCGCAAGCGC
95283 T G
A CACGACGTTGATGGGGCACGGCTGGGCATTCTGCATCGCAAGCGC
GAGAACCTGAGCTGCTCCGCCCTGCAGGGGTCTGCGCTTGCGATGCAGAATGCCCAGCC[AG]TGCCCCATCAACGTCGTGCCAACTCACAGCCCAGCACCACGCTGACCC
95283 IS [AG] TGTCTCCCACCC
95284 I
S GTGGTCCAAGGTGTTCAAGGTCAGGTTGAGCC
95284 P A
S CGCGCCGAGGTGCTGCAGGGTCTTAY
95284 P T
S ATGACGTGGCAGACAGCTGCAGGGTCTTACY
95284 T A
S TGCAGTAAGACCCTGCAGCAGCTCAACCTGACCTTGAACACCTTGGACCACAC
95284 T T
S TGCAGTAAGACCCTGCAGCTGCTCAACCTGACCTTGAACACCTTGGACCACAC
TAACGAGCACCTGCTGTAAGGATCTCGGGTCTGTTCTCACCTGCAGTAAGACCCTGCAGC[AT]GCTCAACCTGACCTTGAACACCTTGGACCACACAGGGGTGGTTGTACT
95284 IS [AT] CTGTGAGGCCCT
95287 I
S TCAGAGAAGTCTCCCAGCCCGACTGGAA
95287 P G
S ATGACGTGGCAGACCGCCTCCACCAGAAY
95287 P A
S CGCGCCGAGGTGCCTCCACCAGAAGY
95287 T G
S GTGACTTCTGGTGGAGGCGTCCAGTCGGGCTGGGAGACTTCTCTGACC
95287 T A
S GTGACTTCTGGTGGAGGCATCCAGTCGGGCTGGGAGACTTCTCTGACC
TCATTCACAACTTCATCAAAGTTCTCTTTGGTCAACACAAGCGTGACTTCTGGTGGAGGC[GA]TCCAGTCGGGCTGGGAGACTTCTCTGACCTTGGCAACAATTTCTGAA
95287 IS [GA] AGAAACAAGCAA
95288 I
A CCTATTCAAACCTGGTGTATGACTGGGTGAAGGCT
95288 P G
A ATGACGTGGCAGACGGCCGTCCTCTTTGGY
95288 P A
A CGCGCCGAGGAGCCGTCCTCTTTGGY
95288 T G
A AACACCAAAGAGGACGGCGGCTTCACCCAGTCATACACCAGGTTTGAATAGGCT
95288 T A
A AACACCAAAGAGGACGGCTGCCTTCACCCAGTCATACACCAGGTTTGAATAGGCT
CAGTGCCCTGCCCCCAGCTGGCCTAGCCTATTCAAACCTGGTGTATGACTGGGTGAAGGC[GA]GCCGTCCTCTTTGGTGTTGTCAACACTGTGGCATGCCTCGACCACCTG
95288 IS [GA] GACCCACCCCAG
95289 I
S ACTGCCCTGCTCAGACACCTGGCAT
95289 P T
S CGCGCCGAGGAGATGGCTGTGACCAY
95289 P C
S ATGACGTGGCAGACGGATGGCTGTGACCAY
95289 T T
S GGGGTGGTCACAGCCATCTTGCCAGGTGTCTGAGCAGGGCAGTGC
95289 T C
S GGGGTGGTCACAGCCATCCTGCCAGGTGTCTGAGCAGGGCAGTGC
TGGCATCAACGACTGGCTTTGCAAGTGAGTAGGAGTGGGGTGGGGGTGGTCACAGCCATC[TC]TGTGCCAGGTGTCTGAGCAGGGCAGTGCCAAGATGGGTCCACATTTTA
95289 IS [TC] AAAGATCACCCCTG
95294 I
S GGACCTGGATGCACAAGGAGGGACATGCT
95294 P C
S ATGACGTGGCAGACGCGTGACCTTCAAGCY
95294 P T
S CGGGCCGAGGACGTGACCTTCAAGCTY
95294 T C
S CCTCAGCTTGAAGGTCACGCGCATGTCCCTCCTTGTGCATCCAGGTCCTC
95294 T T
S CCTCAGCTTGAAGGTCACGTGCATGTCCCTCCTTGTGCATCCAGGTCCTC
CTGGATATCTGGGCACTTCATGTTCGAGCAGTGCGATCCCACCCTCAGCTTGAAGGTCAGG[CT]GCATGTCCCTCCTTGTGCATCCAGGTCCTCAGGGAGCCAGGTCCCGGC
95294 IS [CT] GTGGGTGTGAGT
95295 I
S GCCCCTAACCTTTGTAGGAGCACACGCTCT
95295 P T
S CGCGCCGAGGAAAAGCAATCGCTGCAY
95295 P C
S ATGACGTGGCAGACGAAAGCAATCGCTGCAY
95295 T T
S TGACTGCAGCGATTGCTTTGAGCGTGTGCTCCTACAAAGGTTAAGGGGCCT
95295 T C
S TGACTGCAGCGATTGCTTTCGAGCGTGTGCTCCTACAAAGGTTAAGGGGCCT
CCAGGTGTGTTTGGGCCTCTGTGGGGCAGCCGTGTGCAGGCTGACTGCAGCGATTGCTTT[TC]GAGCGTGTGCTCCTACAAAGGTTAAGGGGCCTGGGGGATTTGGCATC
95295 IS [TC] CTGGTAGCACAC
95297 I
S TTATGAATCAGAAACATATTTTAAATGTTCTATCATTATATTTACCCATATCATTCTGCT
95297 P C
S ATGACGTGGCAGACGCCTAATTTTCCCAATCAGAY
95297 P T
S CGCGCCGAGGACCTAATTTTCCCAATCAGATAY
95297 T C
S AACCTATCTGATTGGGAAAATTAGGCGCAGAATGATATGGGTAAATATAATGATAGAACATTTAAAATATGGTTTCTGATTCATAA
95297 T T
S AACCTATCTGATTGGGAAAATTAGGTGCAGAATGATATGGGTAAATATAATGATAGAACATTTAAAATATGGTTTCTGATTCATAA
GGCCCTCTGAGCCTTCAAAATCAAAGGTTAATTAAAACCTATCTGATTGGGAAAATTAGG[CT]GCAGAATGATATGGGTAAATATAATGATAGAACATTTAAAATATG
95297 IS [CT] GTTTCTGATTCATAA
95298 I
A GGCCTTGTCATCTTAGATTCCTCTACTGTCCATAAAGATTCACTGT
95298 P C
A ATGACGTGGCAGACCCATGGTGCTAATTCCCY
95298 P A
A CGCGCCGAGGACATGGTGCTAATTCCCY
95298 T C
A AGAAGGGAATTAGCACCATGGCAGTGAATCTTTATGGACAGTAGAGGAATCTAAGATGACAAGGCCTA
95298 T A
A AGAAGGGAATTAGCACCATGTCAGTGAATCTTTATGGACAGTAGAGGAATCTAAGATGACAAGGCCTA
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95298 IS [CA] CATATTTCTGCT
95299 I
A TCACCATATTTCTGCTTTCCATTAGTAAAGCTGTCCTTT
95299 P C
A ATGACGTGGCAGACCTTCAGTACTCCTTTACAGAGY
95299 P A
A CGCGCCGAGGATTCAGTACTCCTTTACAGAGTY
95299 T C
A CATCACTCTGTAAAGGAGTACTGAAGAAGGACAGCTTTACTAATGGAAAAGCAGAAATATGGTGAAT
95299 T A
A CATCACTCTGTAAAGGAGTACTGAATAAGGACAGCTTTACTAATGGAAAAGCAGAAATATGGTGAAT
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95299 IS [CA] CAGAGCAGAGTT
95301 I
S AGGAGACATTTCAGCATCAGGCTTAACTCCAT
95301 P C
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95301 P T
S CGCGCCGAGGACAGAGTTTCCTTTGTCTCY

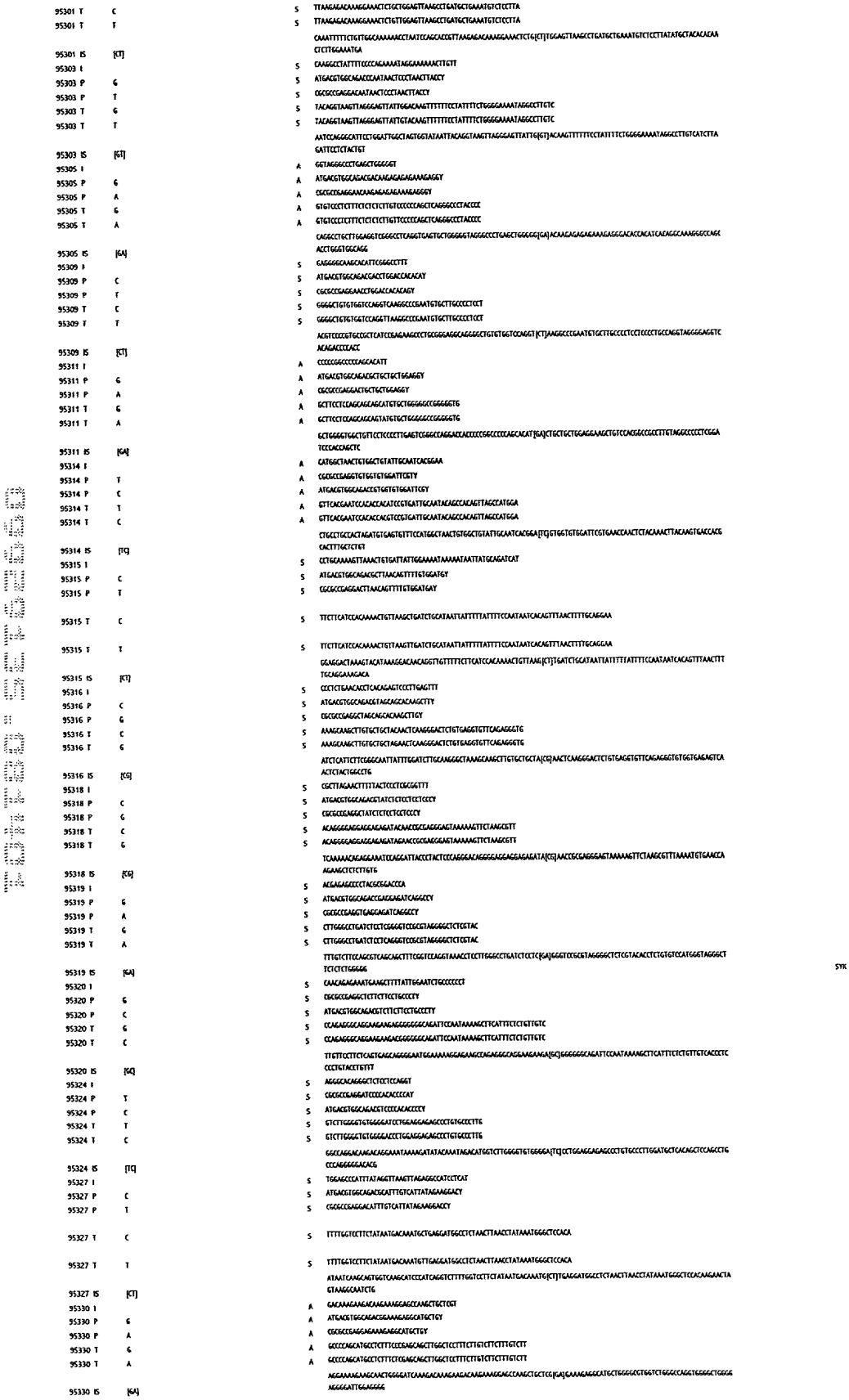
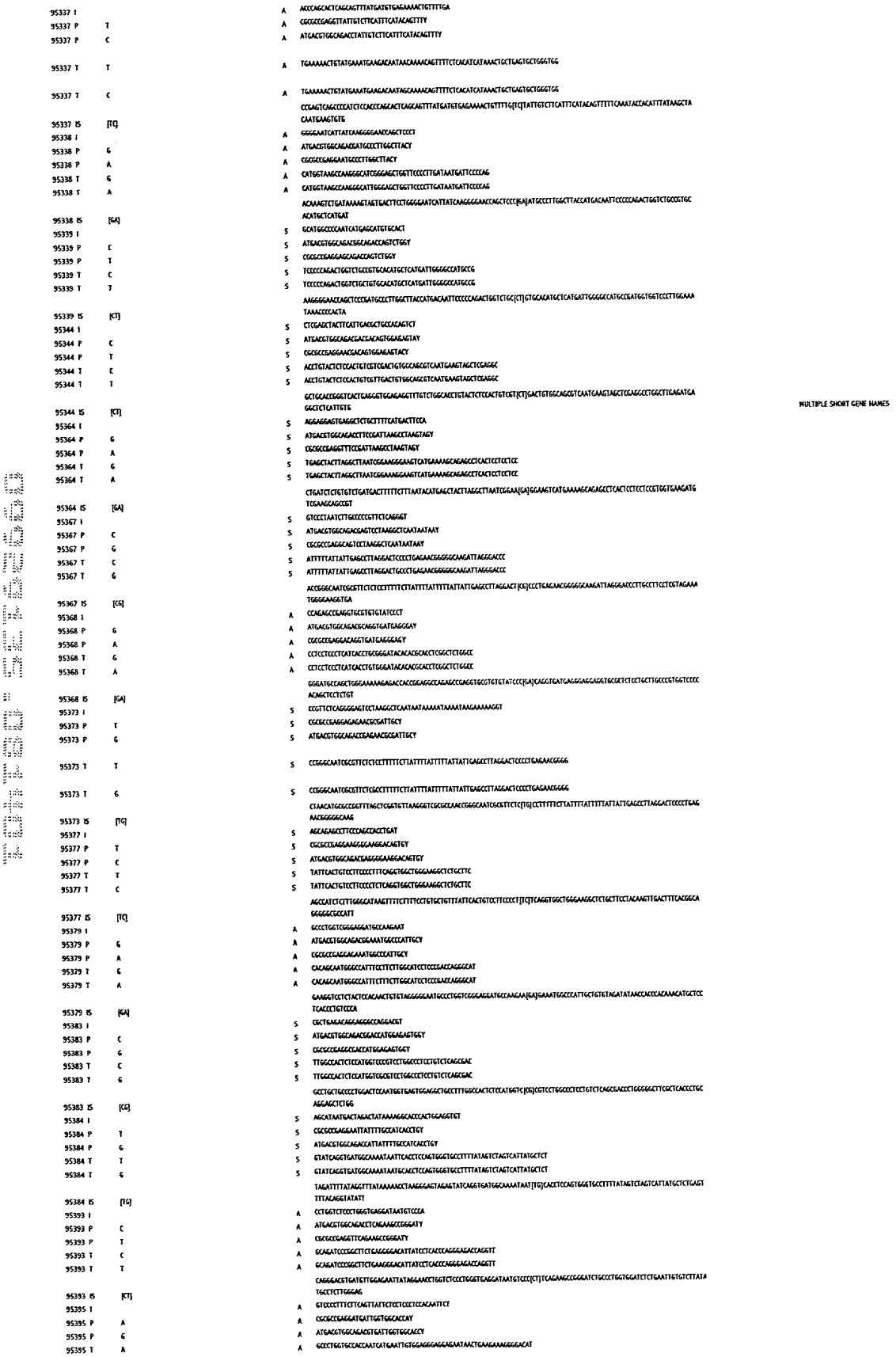
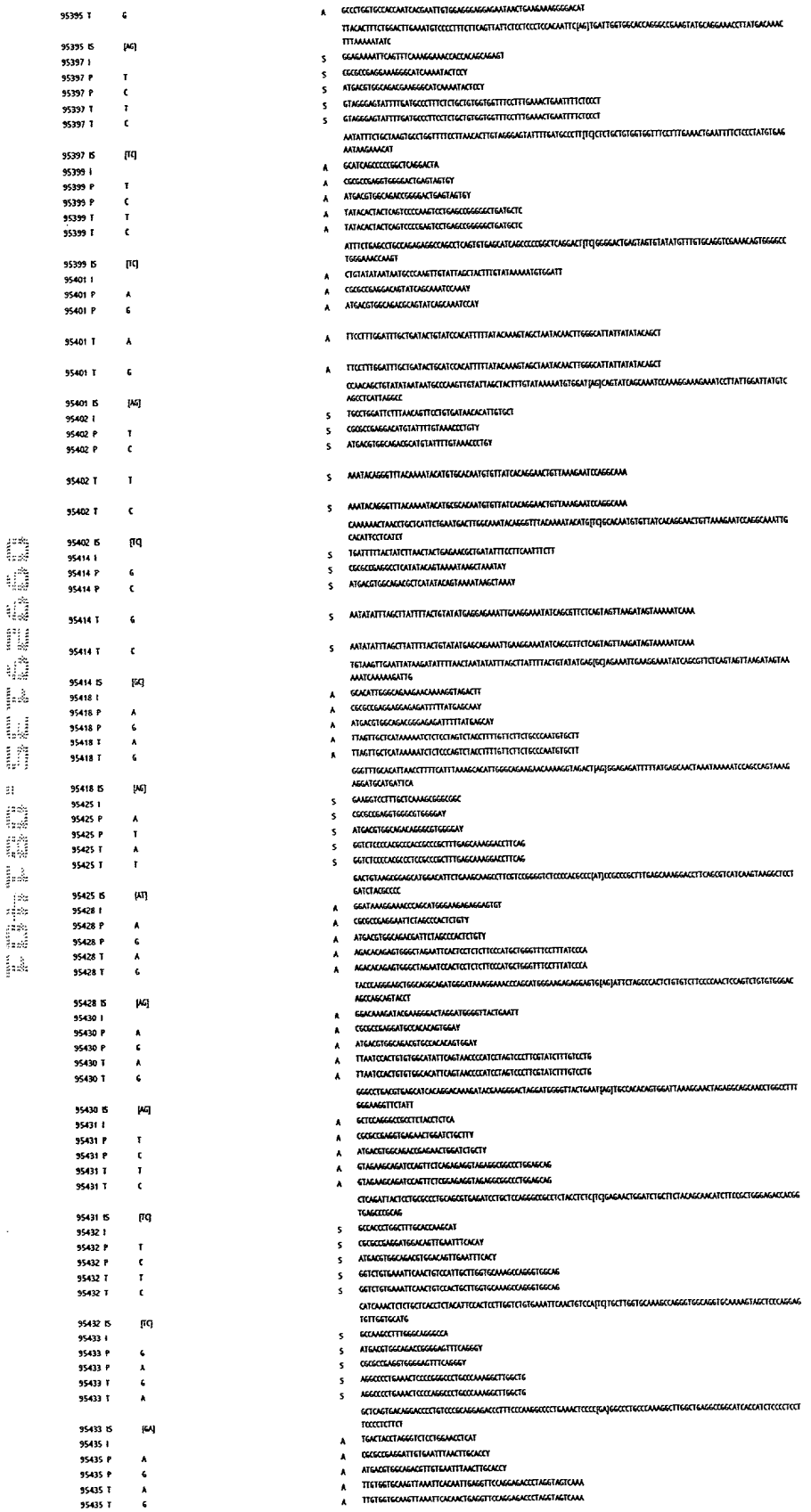


FIGURE 129C




95395 T G
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TTTAAAAATATC
95395 IS [AG]
95397 I
S GGAGAAAATTCAGTTTCAAAGGAAACCACCACAGCAGAGT
95397 P T
S CGCGCCGAGGAAAGGCATCAAAATACTCCY
95397 P C
S ATGACGTGGCAGACGAAGGGCATCAAAATACTCCY
95397 T T
S GTAGGGAGTATTTTGATGCCCTTTCTCTGCTGTGGTGGTTTCCTTGAAACTGAATTTTCTCCCT
95397 T C
S GTAGGGAGTATTTTGATGCCCTTCCTCTGCTGTGGTGGTTTCCTTTGAAACTGAATTTTCTCCCT
AATATTTCTGCTAAGTGCCTGGTTTTCCTTAACACTTGTAGGGAGTATTTTGATGCCCTTTTC[C]CTCTGCTGTGGTGGTTTCCTTTGAAACTGAATTTTCTCCCTATGTGAG
AATAAGAAACAT
95397 IS [TC]
95399 I
A GCATCAGCCCCCGGCTCAGGACTA
95399 P T
A CGGCCCGAGGTGGGGACTGAGTAGTGY
95399 P C
A ATGACGTGGCAGACCGGGGACTGAGTAGTGY
95399 T T
A TATACACTACTCAGTCCCCAAGTCCTGAGCCGGGGGCTGATGCTC
95399 T C
A TATACACTACTCAGTCCCCGAGTCCTGAGCCGGGGGCTGATGCTC
ATTTCTGAGCCTGCCAGAGAGGCCAGCCTCAGTGTGAGCATCAGCCCCCGGCTCAGGACT[TC]GGGGACTGAGTAGTGTATATGTTTGTGCAGGTCGAAACAGTGGGGCC
TGGGAAACCAAGT
95399 IS [TC]
95401 I
A CTGTATATAATAATGCCCAAGTTGTATTAGCTACTTTGTATAAAAATGTGGATT
95401 P A
A CGCGCCGAGGACAGTATCAGCAAATCCAAAY
95401 P G
A ATGACGTGGCAGACGCAGTATCAGCAAATCCAY
95401 T A
A TTCCTTTGGATTTGCTGATACTGTATCCACATTTTTATACAAAGTAGCTAATACAACTTGGGCATTATTATATACAGCT
95401 T G
A TTCCTTTGGATTTGCTGATACTGCATCCACATTTTTATACAAAGTAGCTAATACAACTTGGGCATTATTATATACAGCT
CCAACAGCTGTATATAATAATGCCCAAGTTGTATTAGCTACTTTGTATAAAAATGTGGAT[AG]CAGTATCAGCAAATCCAAAGCAAAGAAATCCTTATTGGATTATGTC
AGCCTCATTAGGCC
95401 IS [AG]
95402 I
S TGCCTGGATTCTTTAACAGTTCCTGTGATAACACATTGTGCT
95402 P T
S CGCGCCGAGGACATGTATTTTGTAAACCCTGTY
95402 P C
S ATGACGTGGCAGACGCATGTATTTTGTAAACCCTGY
95402 T T
S AAATACAGGGTTTACAAAATACATGTGGCAAATGTGTTATCACAGGAACTGTTAAAGAATCCAGGCAAA
95402 T C
S AAATACAGGGTTTACAAAATACATGCGGCAAATGTGTTATCACAGGAACTGTTAAAGAATCCAGGCAAA
CAAAAACTAACCTGCTCATTCTGAATGACTTGGCAAATACAGGGTTTACAAAATACATG[TC]GCACAATGTGTTATCACAGGAACTGTTAAAGAATCCAGGCAAATTG
CACATTCCTCATCT
95402 IS [TC]
95414 I
S TGATTTTTACTATCTTAACTACTGAGAAGCGTGATATTTCCTTCAATTTCTT
95414 P G
S CGCGCCGAGGCCTCATATACAGTAAAATAAGCTAAATAY
95414 P C
S ATGACGTGGCAGACGCTCATATACAGTAAAATAAGCTAAAY
95414 T G
S AATATATTTAGCTTATTTTACTGTATATGAGGAGAAATTGAAGGAAATATCAGCGTTCTCAGTAGTTAAGATAGTAAAAATCAAA
95414 T C
S AATATATTTAGCTTATTTTACTGTATATGAGCAGAAATTGAAGGAAATATCAGCGTTCTCAGTAGTTAAGATAGTAAAAATCAAA
TGTAAGTTGAATTATAAGATATTTTAACTAATATATTTAGCTTATTTTACTGTATATGAG[GC]AGAAATTGAAGGAAATATCAGCGTTCTCAGTAGTTAAGATAGTAA
AAATCAAAAAGATTG
95414 IS [GC]
95418 I
A GCACATTGGGCAGAAGAACAAAAGGTAGACTT
95418 P A
A CGCGCCGAGGAGGAGAGATTTTTATGAGCAAY
95418 P G
A ATGACGTGGCAGACGGGAGAGATTTTTATGAGCAY
95418 T A
A TTAGTTGCTCATAAAAATCTCTCCTAGTCTACCTTTTGTTCTTCTGCCCAATGTGCTT
95418 T G
A TTAGTTGCTCATAAAAATCTCTCCCAGTCTACCTTTTGTTCTTCTGCCCAATGTGCTT
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AGGATGCATGATTCA
95418 IS [AG]
95425 I
S GAAGGTCCTTTGCTCAAAGCGGGCGGC
95425 P A
S CGCGCCGAGGTGGGCGTGGGGAY
95425 P T
S ATGACGTGGCAGACAGGGCGTGGGGAY
95425 T A
S GGTCTCCCCACGCCCACCGCCCGCTTTGAGCAAAGGACCTTCAG
95425 T T
S GGTCTCCCCACGCCCTCCGCCCGCTTTGAGCAAAGGACCTTCAG
GACTGTAAGCGCAGCATGGACATTCTGAAGCAAGCTTCGTCCGGGGGTCTCCCCCACGCCC[AT]CCGCCCGCTTTGAGCAAAGGACCTTCAGCGTCATCAAGTAAGCCTCCT
GATCTACGCCCC
95425 IS [AT]
95428 I
A GGATAAAGGAAACCCAGCATGGGAAGAGAGGAGTGT
95428 P A
A CGCGCCGAGGAATTCTAGCCCACTCTGTY
95428 P G
A ATGACGTGGCAGACGATTCTAGCCCACTCTGTY
95428 T A
A AGACACAGAGTGGGCTAGAATTCACTCCTCTCTTCCCATGCTGGGTTTCCTTTATCCCA
95428 T G
A AGACACAGAGTGGGCTAGAATCCACTCCTCTCTTCCCATGCTGGGTTTCCTTTATCCCA
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AGCCAGCAGTACCT
95428 IS [AG]
95430 I
A GGACAAAGATACGAAGGGACTAGCATGGGGTTACTGAATT
95430 P A
A CGCGCCGAGGATGCCACACAGTGGGAY
95430 P G
A ATGACGTGGCAGACGTGCCACACAGTGGAY
95430 T A
A TTAATCCACTGTGTGGCATATTCAGTAACCCCATCCTAGTCCCTTCGTATCTTTGTCCTG
95430 T G
A TTAATCCACTGTGTGGCACATTCAGTAACCCCATCCTAGTCCCTTCGTATCTTTGTCCTG
GGGCCTGACGTGAGCATCACAGGACAAAGATACGAAGGGACTAGGATGGGGTTACTGAAT[AG]TGCCACACAGTGGATTAAAGGAACTAGAGGCAGCAACCTGGCCTTT
GGGAAGGTTCTATT
95430 IS [AG]
95431 I
A GCTCCAGGAGCCGCCTCTAACCTCTCA
95431 P T
A CCGCCCGAGGTGAGAACTGGATCTGCTTY
95431 P C
A ATGACGTGGCAGACCGAGAACTGGATCTGCTY
95431 T T
A GTAGAAGCAGATCCAGTTCTCAGAGAGGTAGAGGCGGCCCTGGAGCAG
95431 T C
A GTAGAAGCAGATCCAGTTCTCGGAGAGGTAGAGGCGGCCCTGGAGCAG
CTCAGATTACTCCTGGCCCCTGCAGCGTGAGATCCTGCTCCAGGGCCGCCTCTACCTCTC[TC]GAGAACTGGATCTGCTTCTACAGCAACATCTTCCGCTGGGAGACCACGG
TCAGCCCGCAG
95431 IS [TC]
95432 I
S GCCACCCTGGCTTTGCACCAAGCAT
95432 P T
S CGCGCCGAGGATGGCACAGTTGAATTTCACAY
95432 P C
S ATCACGTGGCAGACGTGCACAGTTGAATTTCACY
95432 T T
S GGTCTGTGAAATTCAACTGTCCATTGCTTGGTGCAAAGCCAGGGTGGCAG
95432 T C
S GGTCTGTGAAATTCAACTGTCCACTGCTTGGTGCAAAGCCAGGGTGGCAG
CATCAAACTCTCTGCTCACCTCTACATTCCACTCCTTGGTCTGTGAAATTCAACTGTCCA[TC]TGCTTGGTGCAAAGCCAGGGTGGCAGGTGCAAAAGTAGCTCCCAGGAG
TGTTGGTGCATG
95432 IS [TC]
95433 I
S GCCAAGCCTTTGGGCAGGGCCA
95433 P G
S ATGACGTGGCAGACCGGGGAGTTTCAGGGY
95433 P A
S CGCGCCGAGGTGGGGAGTTTCAGGGY
95433 T G
S AGGCCCCTGAAACTCCCCGGGCCCTGCCCAAAGGCTTGGCTG
95433 T A
S AGGCCCCTGAAACTCCCCAGGCCCTGCCCAAAGGCTTGGCTG
GCTCAGTGACAGGACCCCTGTCCCGCAGGAGACCCTTTCCCAAGGCCCTGAAACTCCCCG[AG]GGCCCTGCCCAAAGGCTTGGCTGAGGCCGGCATCACCATCTCCCCTCCT
TCCCCTCTTCT
95433 IS [CA]
95435 I
A TGACTACCTAGGGTCTCCTGGAACCTCAT
95435 P A
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95435 P G
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95435 T A
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95435 T G
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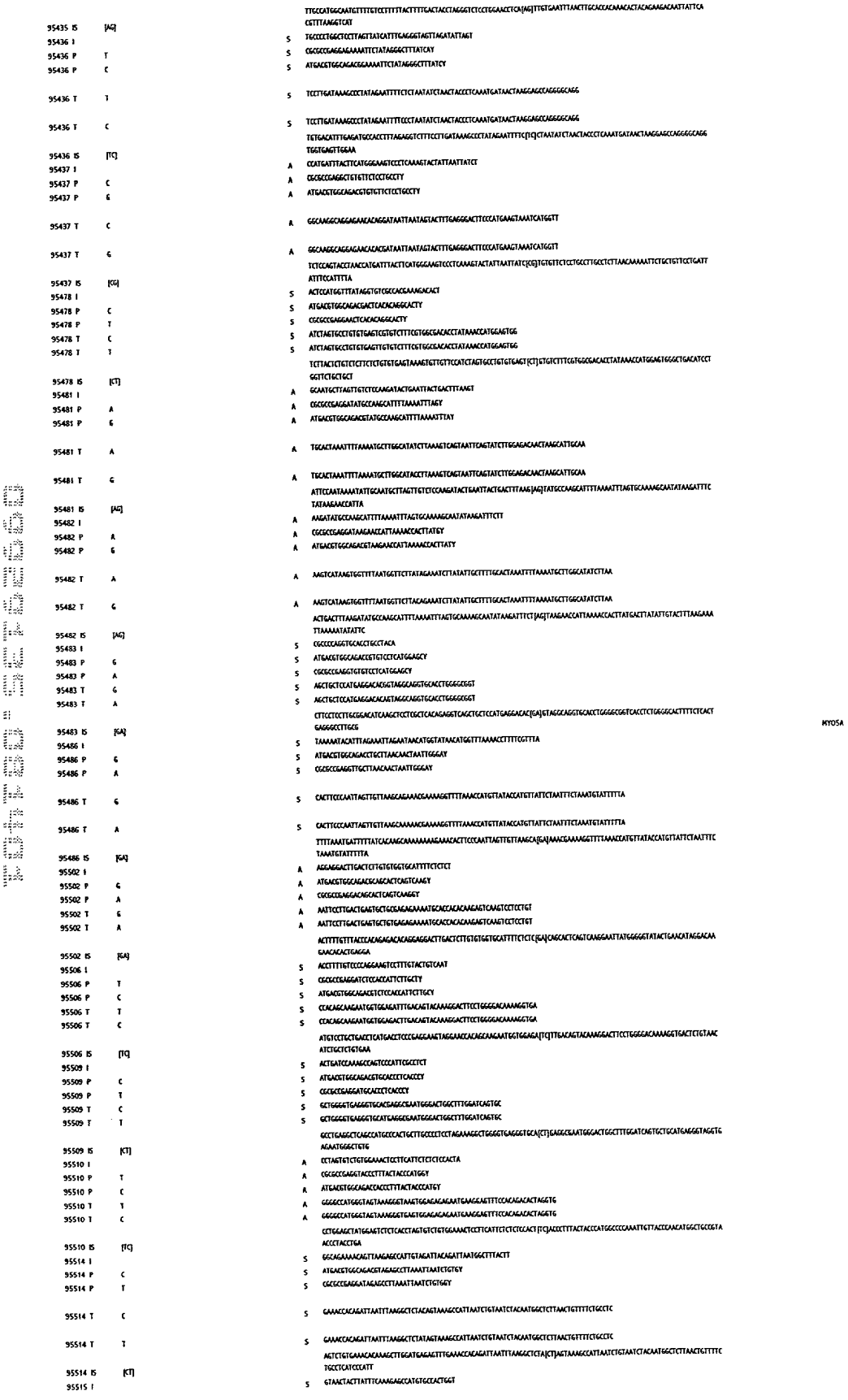

MYO5A

FIGURE 129C

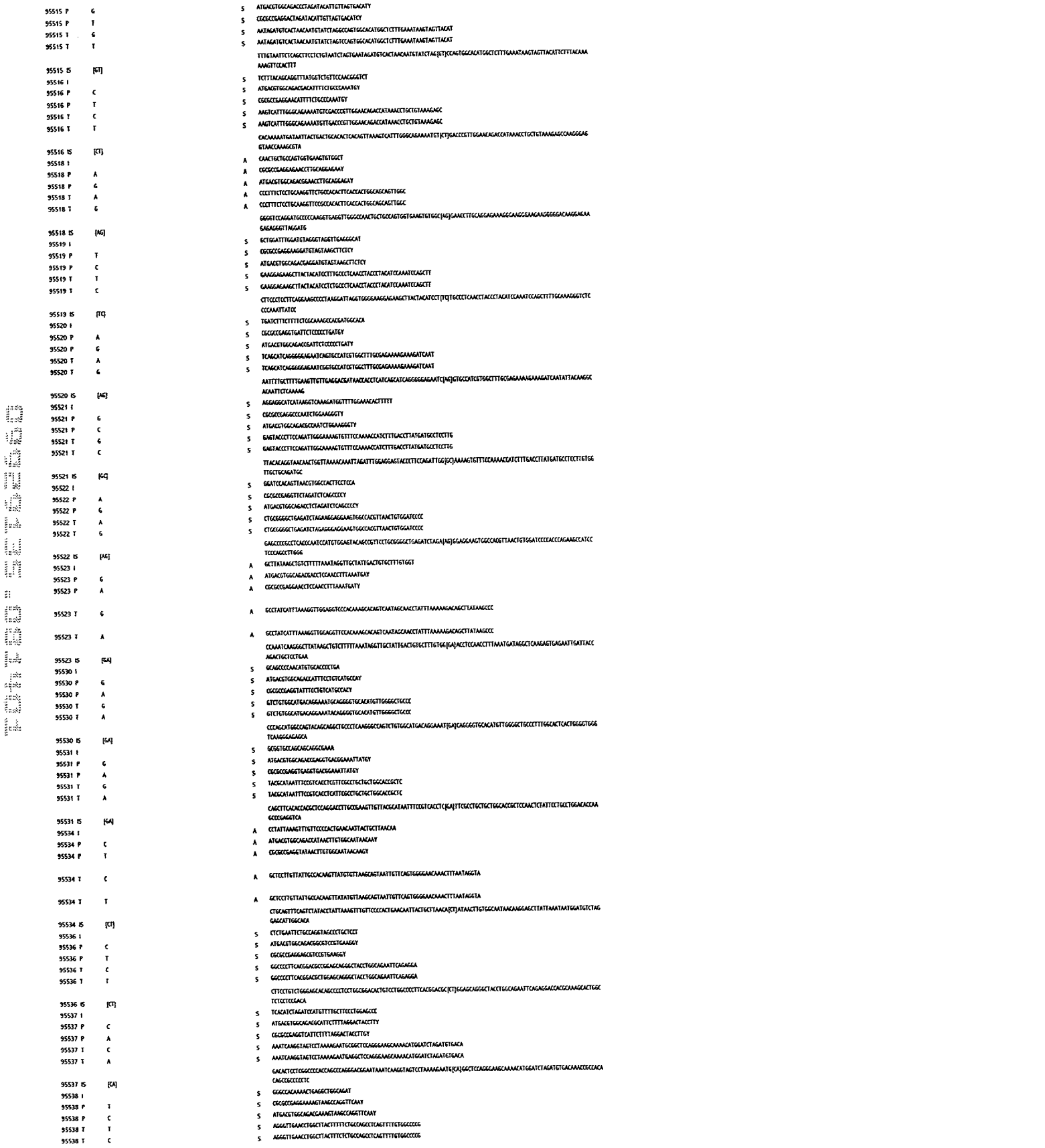

95515 P G
95515 P T
95515 T G
95515 T T
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95516 I
95516 P C
95516 P T
95516 T C
95516 T T
95516 IS [CT]
95518 I
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95518 P G
95518 T A
95518 T G
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95521 I
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95530 IS [GA]
95531 I
95531 P G
95531 P A
95531 T G
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95534 I
95534 P C
95534 P T
95534 T C
95534 T T
95534 IS [CT]
95536 I
95536 P C
95536 P T
95536 T C
95536 T T
95536 IS [CT]
95537 I
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95537 T A
95537 IS [CA]
95538 I
95538 P T
95538 P C
95538 T T
95538 T C
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S CGCGCCGAGGAACATTTTCTGCCCAAATGY
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S ATGACGTGGCAGACGAGGATGTAGTAAGCTTCTCY
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S CGCGCCGAGGTGATTCTCCCCCTGATGY
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S CGCGCCGAGGCCCAATCTGGAAGGGTY
S ATGACGTGGCAGACGCCAATCTGGAAGGGTY
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S GAGTACCCTTCCAGATTGGGAAAAGTGTTTCCAAAACCATCTTTGACCTTATGATGCCTCCTTG
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AGACTGCTCCTCAA
S GCAGCCCCAACATGTGCACCCCTGA
S ATGACGTGGCAGACCATTTCCTGTCATGCCAY
S CGCGCCGAGGTATTTCCTGTCATGCCACY
S GTCTGTGGCATGACAGGAAATGCAGGGGTGCACATGTTGGGGCTGCCC
S GTCTGTGGCATGACAGGAAATACAGGGGTGCACATGTTGGGGCTGCCC
CCCAGCATGGCCAGTACAGCAGGCTGCCCTCAAGGGCCAGTCTGTGGCATGACAGGAAAT[GA]CAGCGGTGCACATGTTGGGGCTGCCCTTTGGCACTCACTGGGGTGGG
TCAAGGGAGAGCA
S GCGGTGCCAGCAGCAGGCGAAA
S ATGACGTGGCAGACCGAGGTGACGGAAATTATGY
S CGCGCCGAGGTGAGGTGACGGAAATTATGY
S TACGCATAATTTCCGTCACCTCGTTCGCCTGCTGCTGGCACCGCTC
S TACGCATAATTTCCGTCACCTCATTGGCCTGCTGCTGGCACCGCTC
CAGCTTCACACCAGCTCCAGGACCTTGCCGAAGTTGTTACGCATAATTTCCGTCACCTC[GA]TTCGCCTGCTGCTGGCACCGCTCCAACTCTATTCCTGCCTGGACACCAA
GCCCGAGGTCA
A CCTATTAAAGTTTGTTCCCCACTGAACAATTACTGCTTAACAA
A ATGACGTGGCAGACCATAACTTGTGGCAATAACAAY
A CGCGCCGAGGTATAACTTGTGGCAATAACAAGY
A GCTCCTTGTTATTGCCACAAGTTATGTGTTAAGCAGTAATTGTTCAGTGGGGAACAAACTTTAATAGGTA
A GCTCCTTGTTATTGCCACAAGTTATATGTTAAGCAGTAATTGTTCAGTGGGGAACAAACTTTAATAGGTA
CTGCAGTTTCAGTCTATACCTATTAAAGTTTGTTCCCCACTGAACAATTACTGCTTAACA[CT]ATAACTTGTGGCAATAACAAGGAGCCTATTAAATAATGGATGTCTAG
GAGCATTGGCACA
S CTCTGAATTCTGCCAGGTAGCCCTGCTCCT
S ATGACGTGGCAGACGGCGTCCGTGAAGGY
S CGCGCCGAGGAGCGTCCGTGAAGGY
S GGCCCCTTCACGGACGCCGGAGCAGGGCTACCTGGCAGAATTCAGAGGA
S GGCCCCTTCACGGACGCTGGAGCAGGGCTACCTGGCAGAATTCAGAGGA
CTTCCTGTCTGGGAGCACAGCCCCTCCTGGCGGACACTGTCCTGGCCCCTTCACGGACGC[CT]GGAGCAGGGCTACCTGGCAGAATTCAGAGGACCACGCAAAGCACTGGC
TCTCCTCCGACA
S TCACATCTAGATCCATGTTTTGCTTCCCTGGAGCCC
S ATGACGTGGCAGACGCATTCTTTTAGGACTACCTTY
S CGCGCCGAGGTCATTCTTTTAGGACTACCTTGY
S AAATCAAGGTAGTCCTAAAAGAATGCGGCTCCAGGGAAGCAAACATGGATCTAGATGTGACA
S AAATCAAGGTAGTCCTAAAAGAATGAGGCTCCAGGGAAGCAAACATGGATCTAGATGTGACA
GACACTCCTCGGCCCCACACAGCCCAGGGACGGAATAAATCAAGGTAGTCCTAAAAGAATG[CA]GGCTCCAGGGAAGCAAACATGGATCTAGATGTGACAAACCGCCACA
CAGCCGCCCCCTC
S GGGCCACAAAACTGAGGCTGGCAGAT
S CGCGCCGAGGAAAAGTAAGCCAGGTTCAAY
S ATGACGTGGCAGACGAAAGTAAGCCAGGTTCAAY
S AGGGTTGAACCTGGCTTACTTTTTCTGCCAGCCTCAGTTTTGTGGCCCCG
S AGGGTTGAACCTGGCTTACTTTCTCTGCCAGCCTCAGTTTTGTGGCCCCG

FIGURE 129C

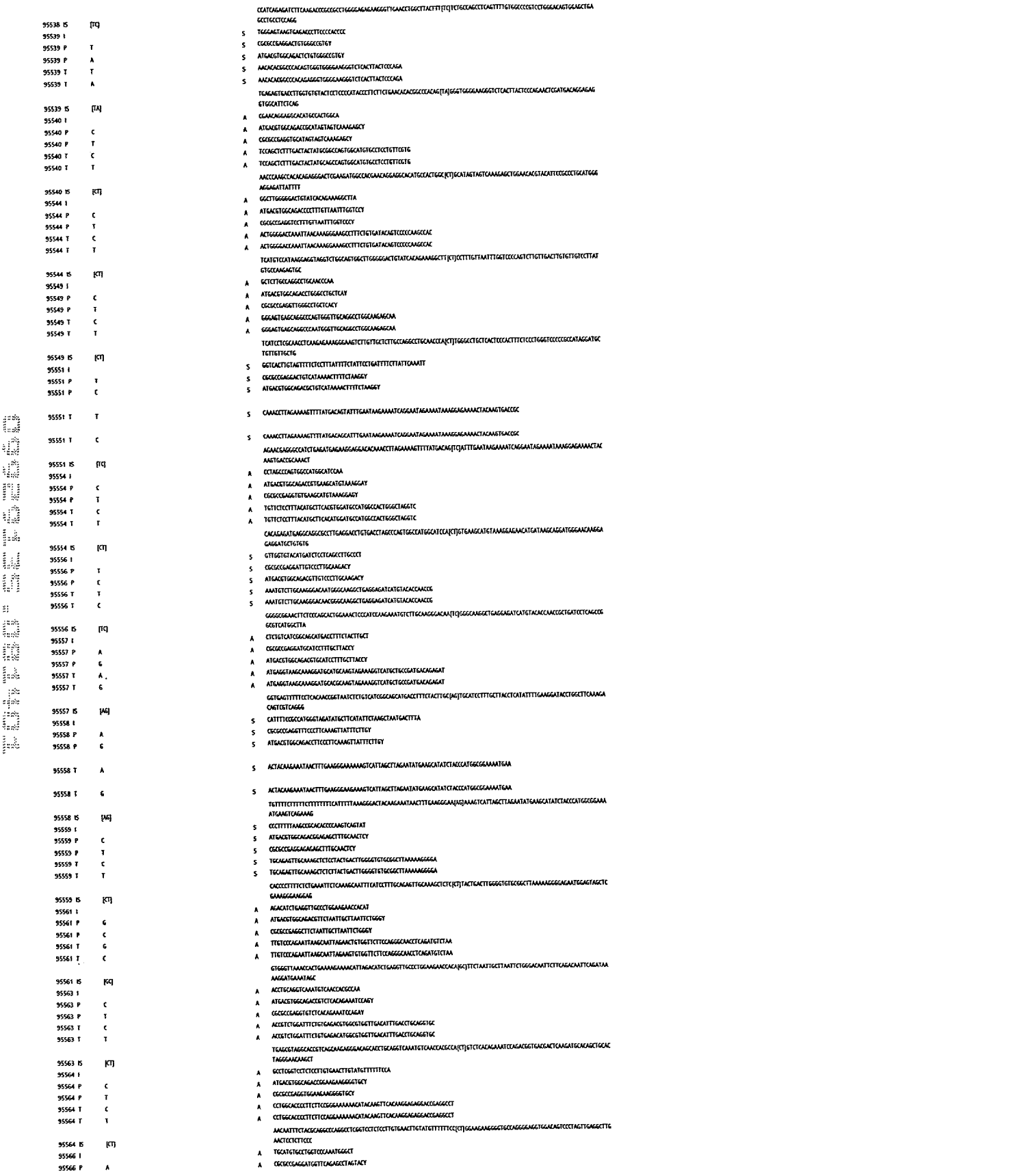
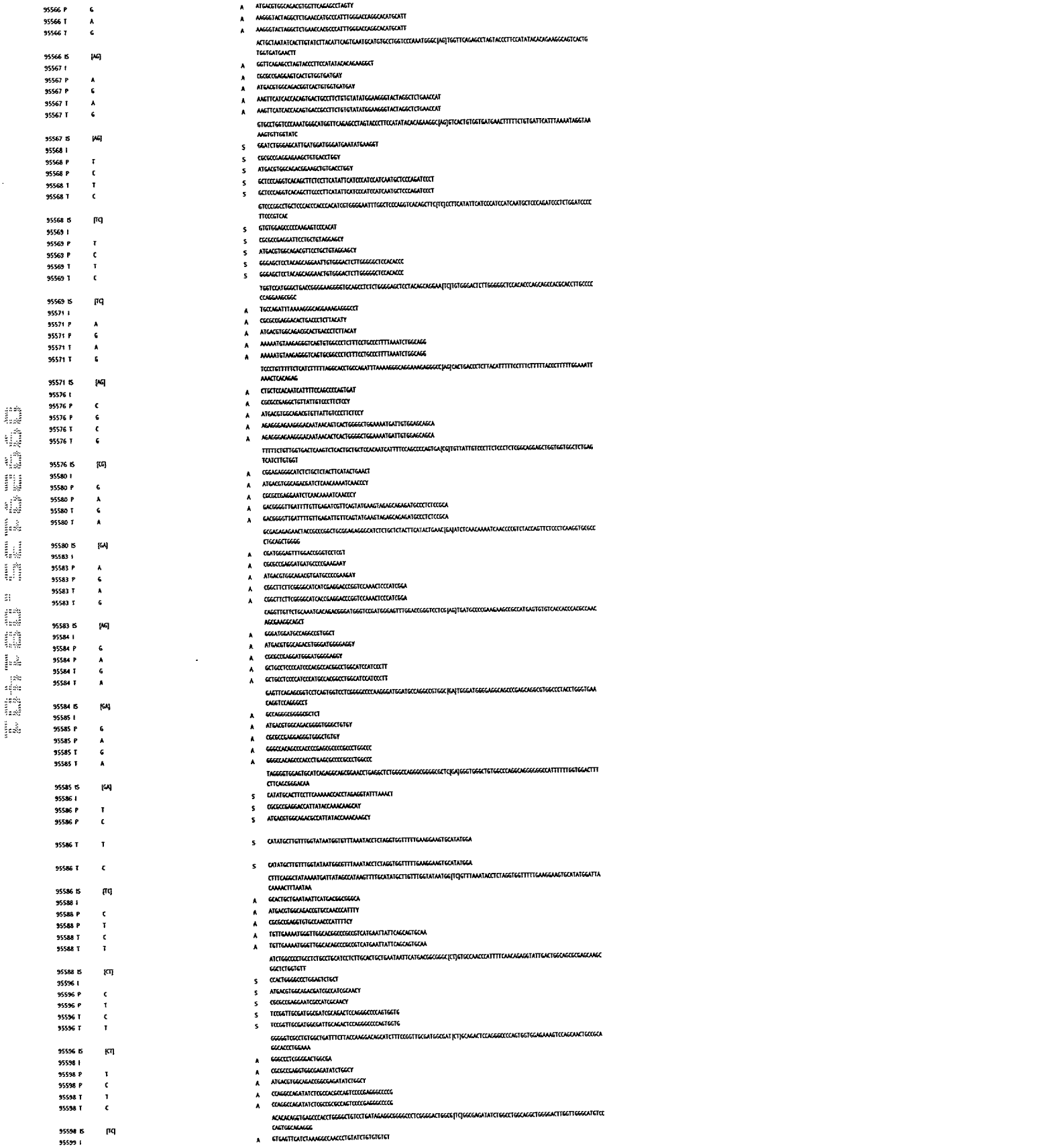


FIGURE 129C



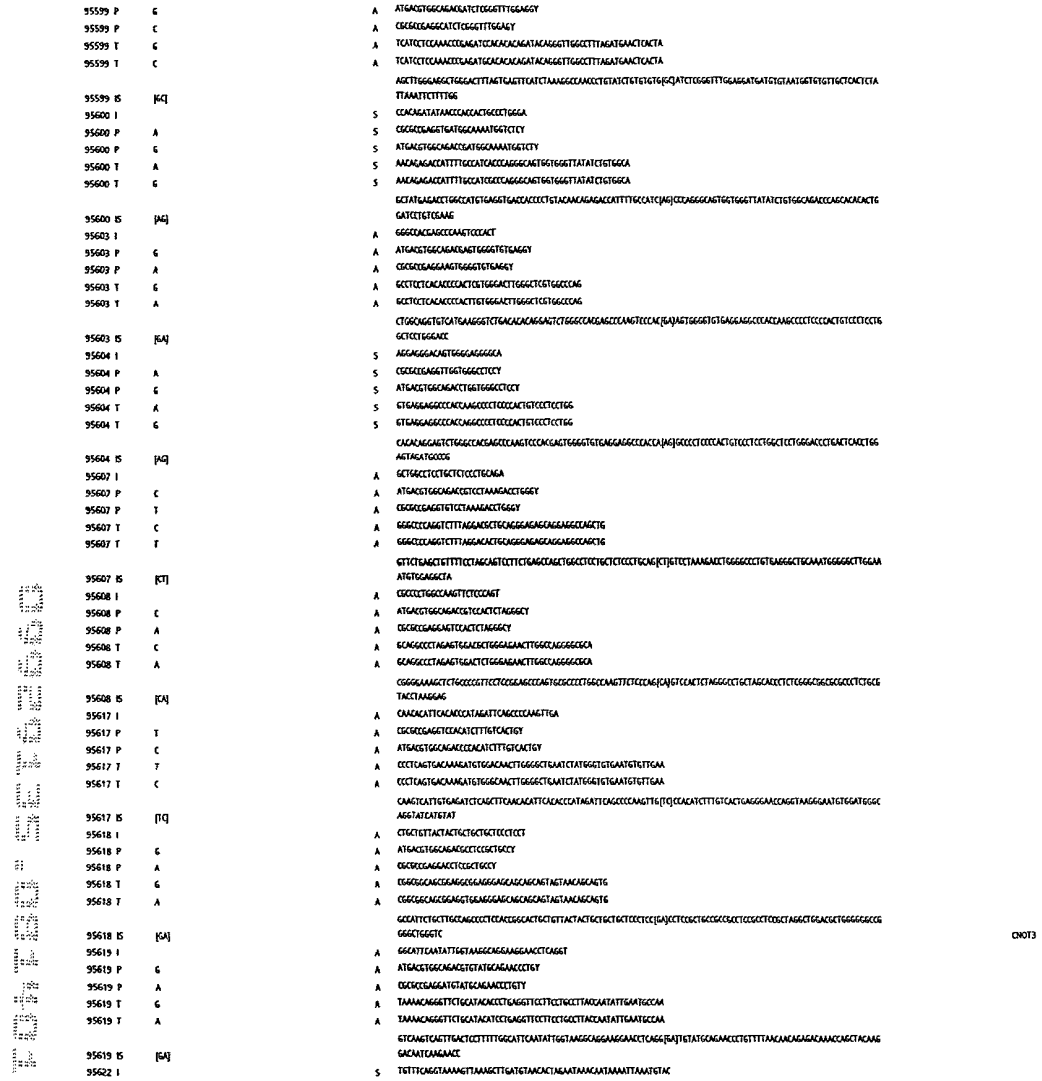
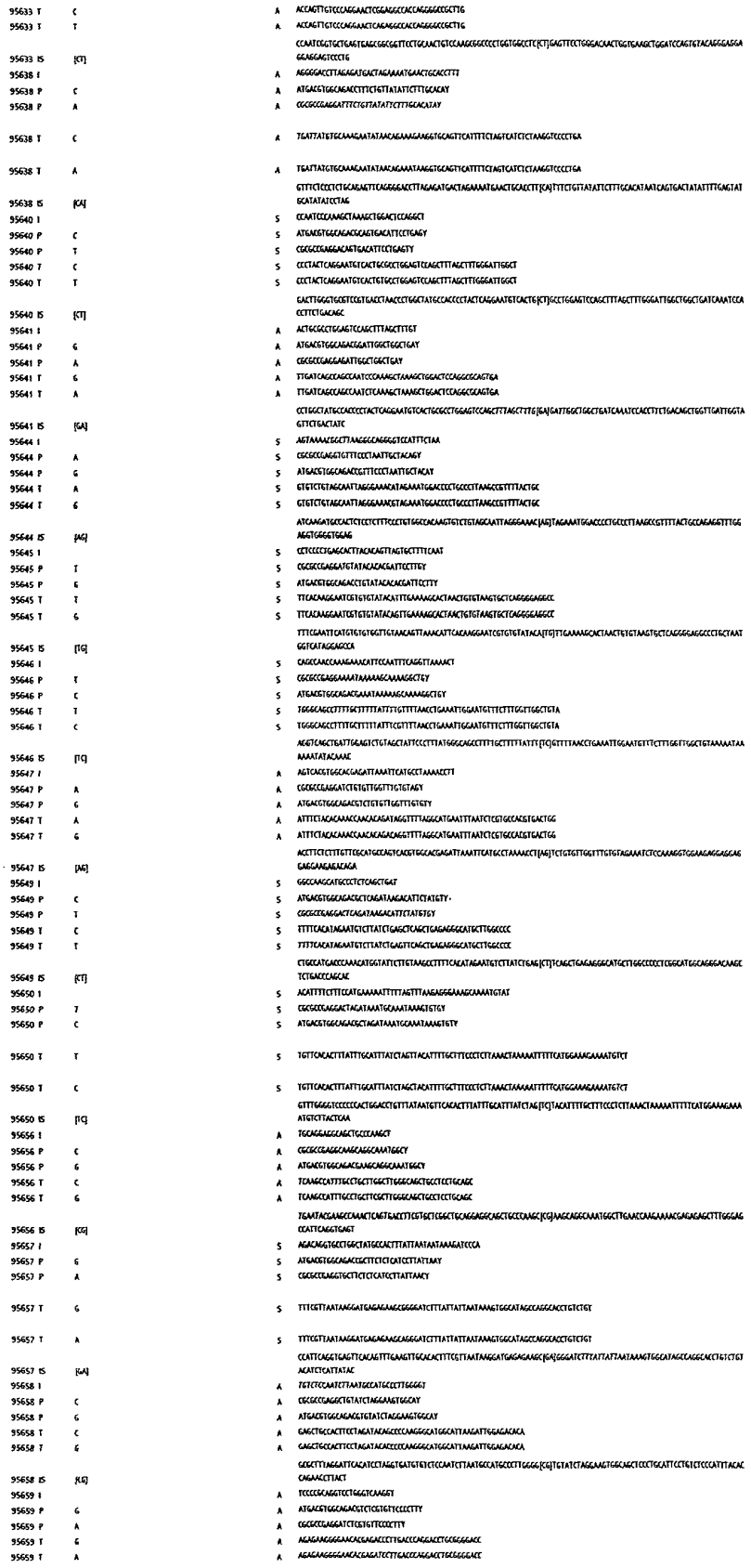

95599 P G A ATGACGTGGCAGACGATCTCGGGTTTGGAGGY
95599 P C A CGCGCGAGGCATCTCGGGTTTGGAGY
95599 T G A TCATCCTCCAAACCCAGATCCACACACAGATACAGGGTTGGCCTTTAGATGAACTCACTA
95599 T C A TCATCCTCCAAACCCAGATCGCACACACAGATACAGGGTTGGCCTTTAGATGAACTCACTA
95599 IS [GC] AGCTTGGGAAGCTGGGACTTTAGTCAGTTCATCTAAAGGCCAACCCTGTATCTGTGTGTG[GC]ATCTCGGGTTTGGAGGATGATGTGTAATGGTGTGTTGCTCACTCTA TTAAATTCTTTTGG
95600 I S CCACAGATATAACCCACCACTGCCCTGGGA
95600 P A S CGCGCGAGGTGATGGCAAAATGGTCTCY
95600 P G S ATGACGTGGCAGACGATGGCAAAATGGTCTY
95600 T A S AACAGAGACATTTTGCCATCGCCCAGGGCAGTGGTGGGTTATATCTGTGGCA
95600 T G S AACAGAGACATTTTGCCATCGCCCAGGGCAGTGGTGGGTTATATCTGTGGCA
95600 IS [AG] GCTATGAGACCTGGCCATGTGAGGTGACCACCCCTGTACAACAGAGACCATTTTGCCATC[AG]CCCAGGGCAGTGGTGGGTTATATCTGTGGCAGACCCAGCACACACTG GATCCTGTCGAAG
95603 I A GGGCCACGAGCCCAAGTCCCACT
95603 P G A ATGACGTGGCAGACGAGTGGGGTGTGAGGY
95603 P A A CGCGCGAGGAAGTGGGGTGTGAGGY
95603 T G A GCCTCCTCACACCCCACTCGTGGGACTTGGGCTCGTGGCCCAG
95603 T A A GCCTCCTCACACCCCACTTGTGGGACTTGGGCTCGTGGCCCAG
95603 IS [GA] CTGGCAGGTGTCATGAAGGGTCTGACACACAGGAGTCTGGGCCACGAGCCCAAGTCCCAC[GA]AGTGGGGTGTGAGAGGCCCACACAAGCCCTCCCCACTGTCCTCCTG GCTCCTGGGACC
95604 I S AGCAGGGACAGTGGGGAGGGGCA
95604 P A S CGCGCGAGGTTGGTGGGCCTCCY
95604 P G S ATGACGTGGCAGACCTGGTGGGCCTCCY
95604 T A S GTGAGGAGCCCCACAAGCCCCTCCCCACTGTCCCTCCTGG
95604 T G S GTGAGGAGCCCCACAAGCCCCTCCCCACTGTCCCTCCTGG
95604 IS [AG] CACACAGGAGTCTGGGCCACGAGCCCAAGTCCCACGAGTGGGGTGTGAGGAGAGCCCACCA[AG]GCCCCTCCCCACTGTCCCTCCTGGCTCCTGGGACCCTGACTCACCTGG AGTAGATGCCCG
95607 I A GCTGGCCTCCTGCTCTCCCTGCAGA
95607 P C A ATGACGTGGCAGACCGTCCTAAAGACCTGGGY
95607 P T A CGCGCGAGGTGTCCTAAAGACCTGGGY
95607 T C A GGGCCCCAGGTCTTTAGGAGCCTGCAGGGAGAGCAGGAGGAGGCAGCTG
95607 T T A GGGCCCCAGGTCTTTAGGAGCCTGCAGGGAGAGCAGGAGGAGGCAGCTG
95607 IS [CT] GTCTGAGCTGTTTTCCTAGCAGTCCTTCTGAGCCAGCTGGCCTCCTGCTCCCCTGCAG[CT]GTCCTAAAGACCTGGGGCCCTGTGAGGGCTGCAAATGGGGGCTTGGAA ATGTGCAGGCTA
95608 I A CGCCCCTGGCCAAGTTCTCCCAGT
95608 P C A ATGACGTGGCAGACCGTCCACTCTAGGGCY
95608 P A A CGCGCCGAGGAGTCCACTCTAGGGCY
95608 T C A GCAGGCCCTAGAGTGGACGCTGGGAGAACTTGGCCAGGGGCGCA
95608 T A A GCAGGCCCTAGAGTGGACTCTGGGAGAACTTGGCCAGGGGCGCA
95608 IS [CA] CGGGGAAAGCTCTGCCCCGTTCCTCCGGAGCCCAGTGGCCCCTGGCCAAGTTCTCCCAG[CA]GTCCACTCTAGGCCCTGCTAGCACCCTCTGGGCTGCGCGCCCTCTGCG TACCTAAGGAG
95617 I A CAACACATTCACACCCATAGATTCAGCCCCAAGTTGA
95617 P T A CGCGCCGAGGTCCACATCTTTGTCACTGY
95617 P C A ATGACGTGGCAGACCCACATCTTTGTCACTGY
95617 T T A CCCTCAGTGACAAAGATGTGGACAACTTGGGGCTGAATCTATGGGTGTGAATGTGTTGAA
95617 T C A CCCTCAGTGACAAAGATGTGGGCAACTTGGGGCTGAATCTATGGGTGTGAATGTGTTGAA
95617 IS [TC] CAAGTCATTGTGAGATCTCAGCTTCAACACATTCACACCCATAGATTCAGCCCCAAGTTG[TC]CCACATCTTTGTCACTGAGGGAACCAGGTAAGGGAATGTGGATGGGC AGGTATCATGTAT
95618 I A CTGCTGTTACTACTGCTGCTGCTCCCTCCT
95618 P G A ATGACGTGGCAGACGCCTCCGCTGCCY
95618 P A A CGCGCCGAGGACCTCCGCTGCCY
95618 T G A CGGCGGCAACCGGAGGCGGAGGGAGCAGCAGCAGTAGTAACAGCAGTG
95618 T A A CGGCGGCAACCGGAGGTGGAGGGAGCAGCAGCAGTAGTAACAGCAGTG
95618 IS [GA] GCCATTCTGCTTGCCAGCCCCTCCACCGGCACTGCTGTTACTACTGCTGCTGCTCCCTCC[GA]CCTCCGCTGCCGCCGCCTCCGCCTCCGCTAGCCTGCACGCTGGGGGCCG GGGCTGGGTC
95619 I A GGCATTCAATATTGGTAAGGCAGGAAGGAACCTCAGGT
95619 P G A ATGACGTGGCAGACGTGTATGCAGAACCCTGT
95619 P A A CGCGCCGAGGATGTATGCAGAACCCTGTY
95619 T G A TAAAACAGGGTTCTGCATACACCCTGAGGTTCCTTCCTGCCTTACCAATATTGAATGCCAA
95619 T A A TAAAACAGGGTTCTGCATACATCCTGAGGTTCCTTCCTGCCTTACCAATATTGAATGCCAA
95619 IS [GA] GTCAAGTCAGTTGACTCCTTTTTGGCATTCAATATTGGTAAGGCAGGAAGGAACCTCAGG[GA]TGTATGCAGAACCCTGTTTTAACAACAGAGACAAACCAGCTACAAG GACAATCAAGAACC
95622 I S TGTTTCAGGTAAAAGTTAAAGCTTGATGTAACACTAGAATAAACAATAAAATTAAATGTAC
95622 P A S CGCGCCGAGGTTTTCTTTAAGCCACTTGCY
95622 P C S ATGACGTGGCAGACGTTTTCTTTAAGCCACTTGCY
95622 T A S GTCAGCAAGTGGCTTAAAGAAAATACATTTAATTTTATTGTTTATTCTAGTGTTACATCAAGCTTTAACTTTTACCTGAAACA
95622 T C S GTCAGCAAGTGGCTTAAAGAAAACTACATTTAATTTTATTGTTTATTCTAGTGTTACATCAAGCTTTAACTTTTACCTGAAACA
95630 IS [AC] TTGTTACTATGATGGATGGAGGCAAGGATTAAGAAATGTCAGCAAGTGGCTTAAAGAAAA[AC]TACATTTAATTTTATTGTTTATTCTAGTGTTACATCAAGCTTTAAC TTTTACCTGAAACA
95630 I S TTTTTAAGTCAGTTTCATCACCGTTCTATGTGCCATTGC
95630 P C S ATGACGTGGCAGACGTATCATGCTTTTATTTCAGTGTY
95630 P A S CGCGCCGAGGTTATCATGCTTTTATTTCAGTGTTY
95630 T C S AGCAAACACTGAAATAAAAGCATGATACCAATGGCACATAGAACGGTGATGAAACTGACTTAAAAACC
95630 T A S AGCAAACACTGAAATAAAAGCATGATAACAATGGCACATAGAACGGTGATGAAACTGACTTAAAAACC
95630 IS [CA] TTTCTCAAGTAACTTTTATATATACTAGTGAAGAGCAAACACTGAAATAAAAGCATGATA[CA]CAATGGCACATAGAACGGTGATGAAACTGACTTAAAAACCTACATT AATAAGCTATACGA
95631 I S GGCATTTGTGTACACATATAAACAATTCTGAATAGTTCATCATTTTTCTTTAGAT
95631 P C S ATGACGTGGCAGACGTAGGTGCTTTGATGCATY
95631 P T S CGCGCCGAGGATAGGTGCTTTGATGCATTY
95631 T C S TCAAAATGCATCAAAGCAACCTACTCTAAAGAAAAATGATGAACTATTCAGAATTGTTTATATGTGTACACAAATGCCCT
95631 T T S TCAAAATGCATCAAAGCAACCTATTCTAAAGAAAAATGATGAACTATTCAGAATTGTTTATATGTGTACACAAATGCCCT
95631 IS [CT] TTTCTTGGCAGTCAAAATTTTTTCCTTTATCCCATCCCTCAAAATGCATCAAAGCAACCTA[CT]TCTAAAGAAAAATGATGAACTATTCAGAATTGTTTATATGTGTACAC AAATGCCCTAATT
95632 I S CCGCCCCCAGCTTGGCCACAC
95632 P A S CGCGCCGAGGTAGTCTGAGTGTGTGACTGY
95632 P C S ATGACGTGGCAGACGAGTCTGAGTGTGTGACTY
95632 T A S GAGACAGTCACACACTCAGACTATGTGGCCAAGCTGGGGGCGGGG
95632 T C S GAGACAGTCACACACTCAGACTCTGTGGCCAAGCTGGGGGCGGGG
95632 IS [AC] CAGCCCCCCACCCAGCCCCCGCCTGCTCTGAGTCTCTGAGACAGTCACACACTCAGACT[AC]TGTGGCCAAGCTGGGGGCGGGGGGCATGGGCTAGGGACACACTAGAAT ATTCACGCTCCG
95633 I A AGCGCCCCTGGTGGCCTCA
95633 P C A ATGACGTGGCAGACCGAGTTCCTGGGACAAY
95633 P T A CGCGCCGAGGTGAGTTCCTGGGACAACY

FIGURE 129C



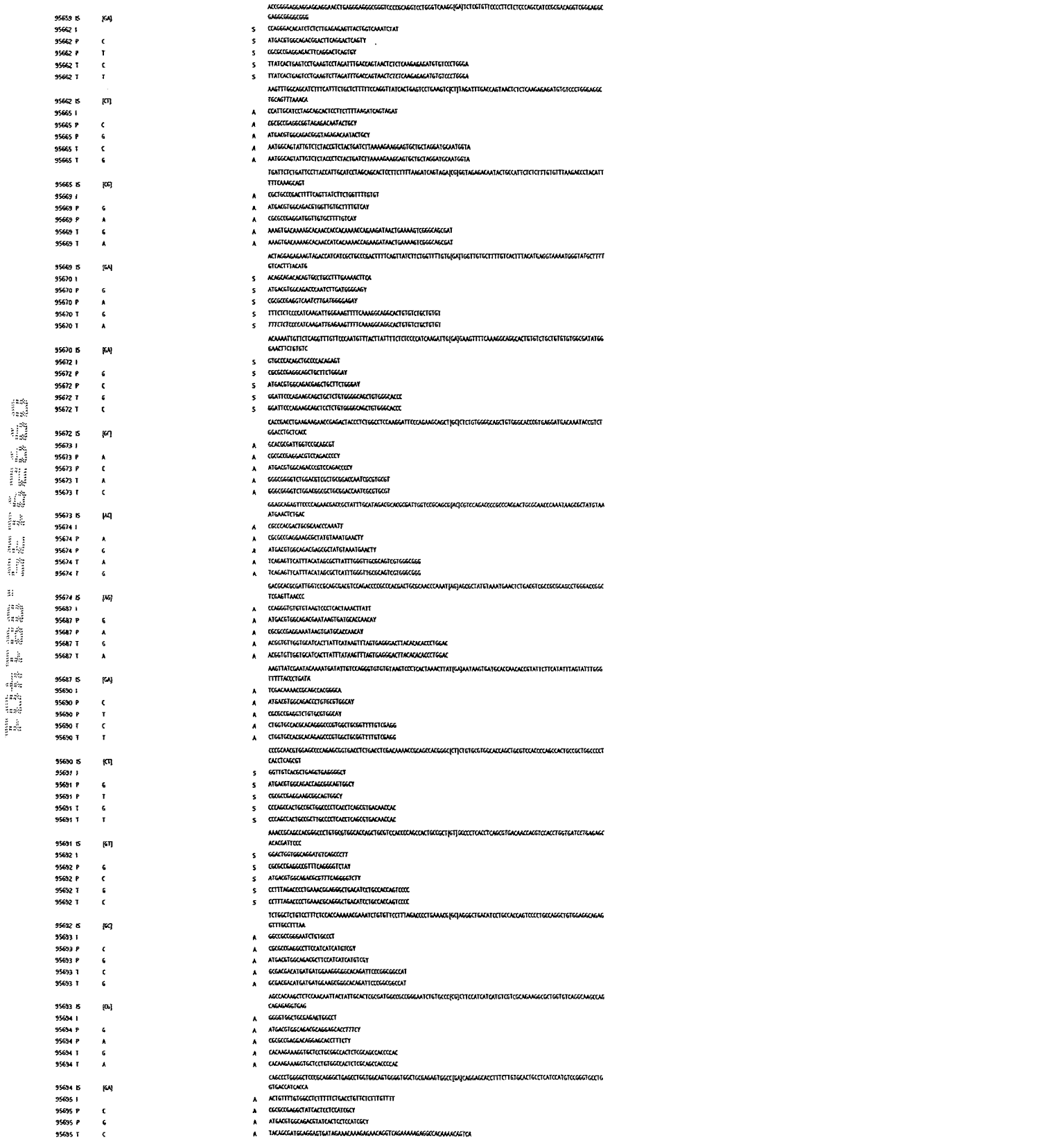
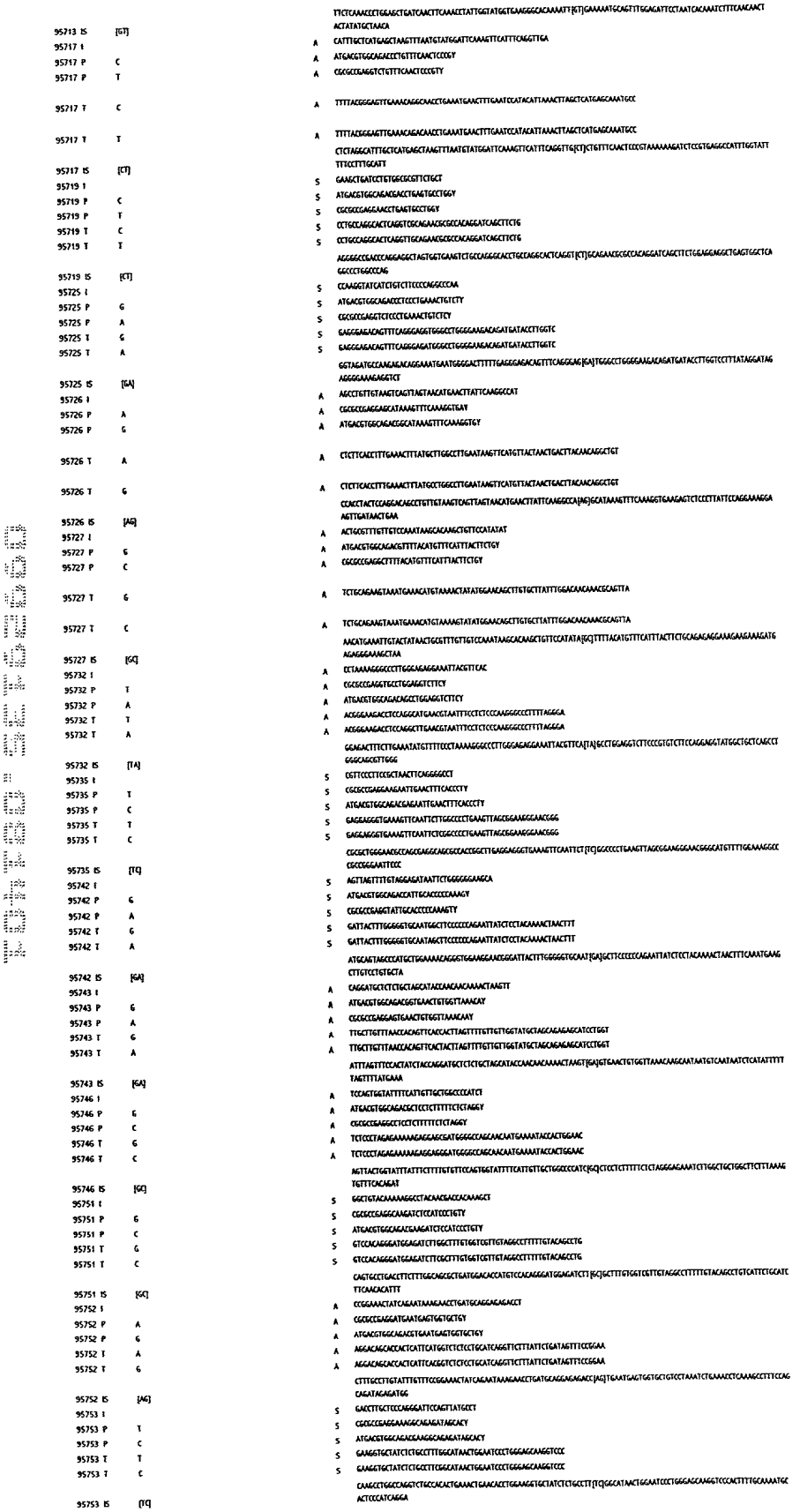
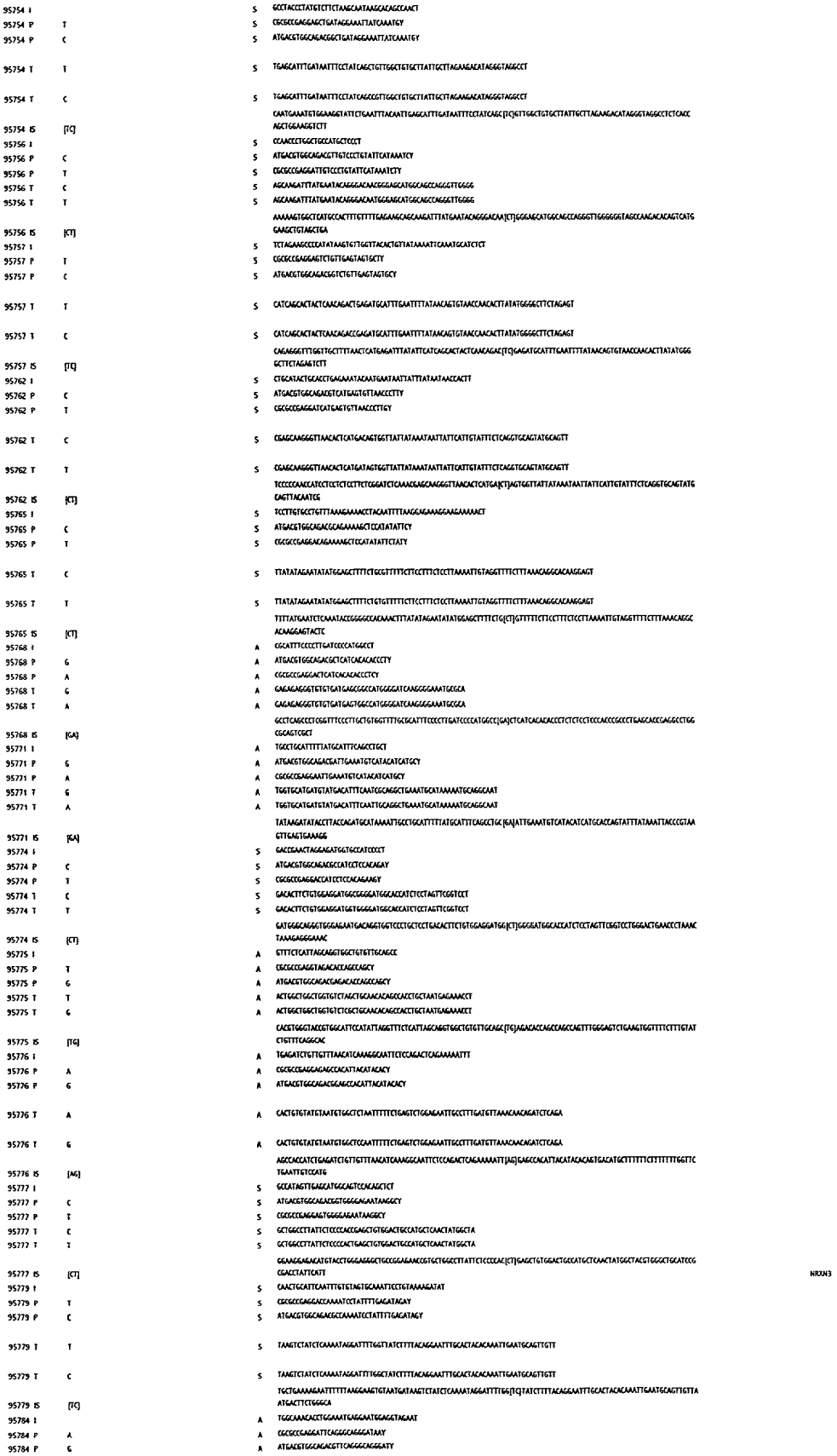
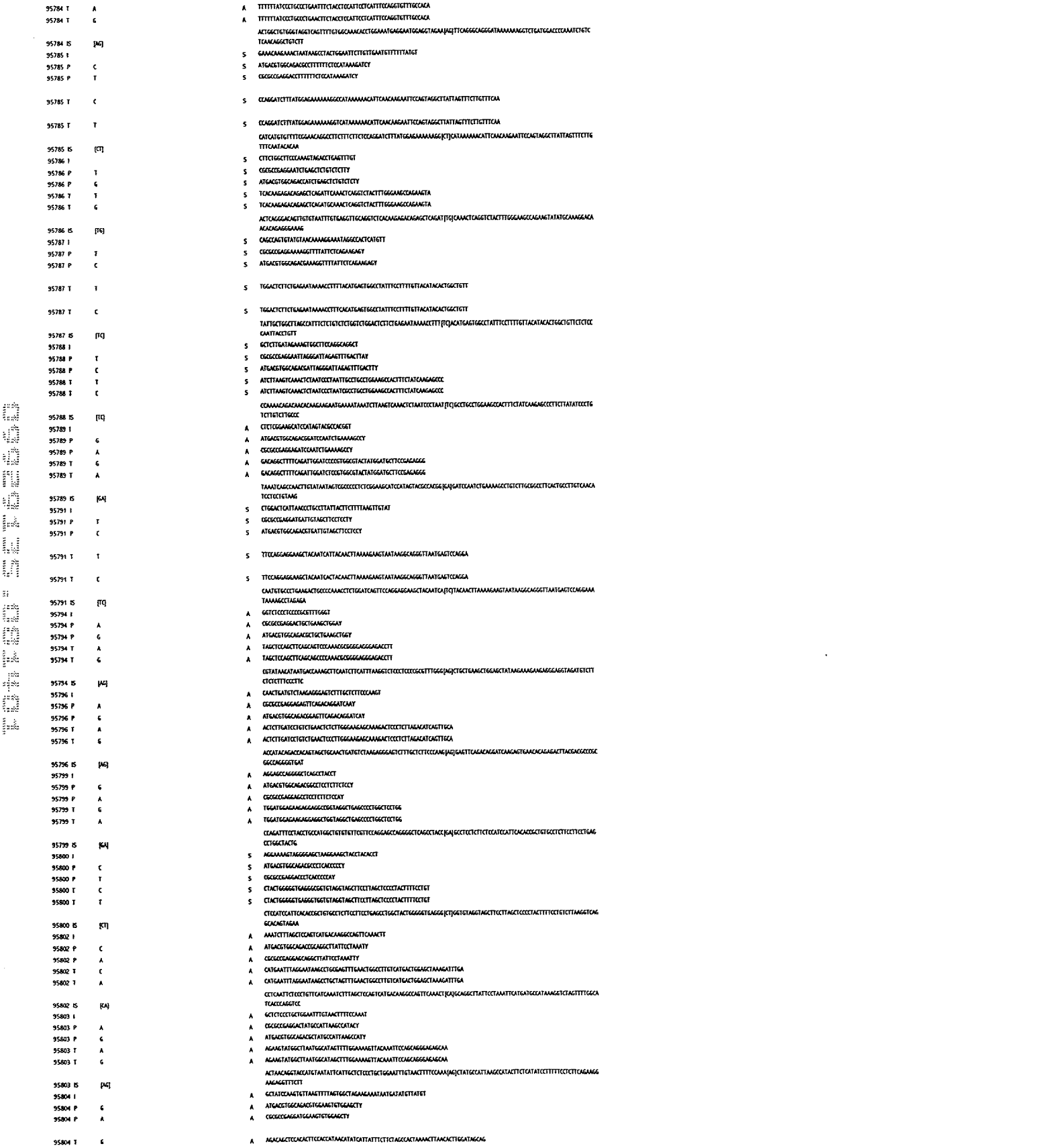


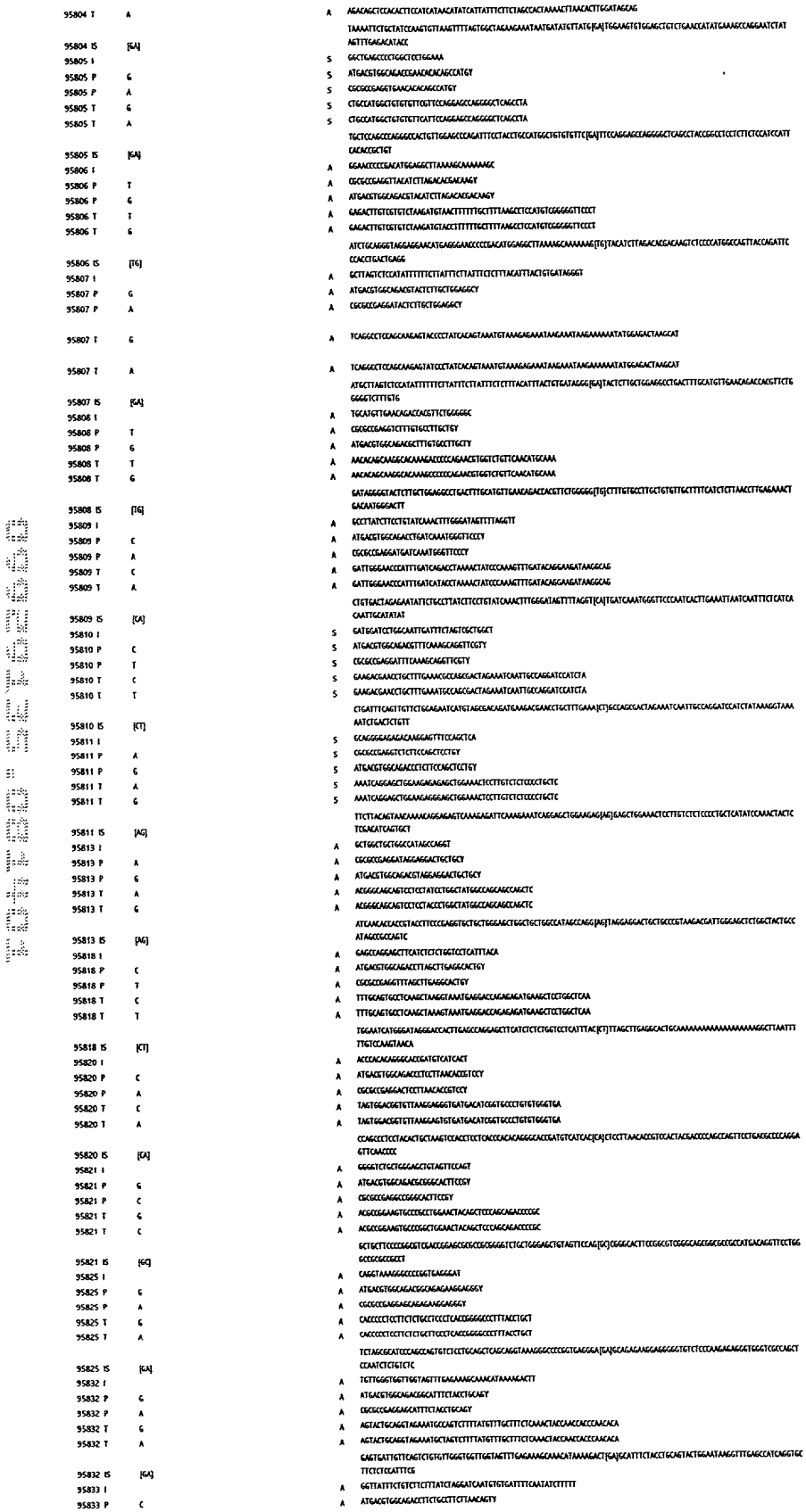


FIGURE 129C




95754 I S GCCTACCCTATGTCTTCTAAGCAATAAGCACAGCCAACT
95754 P T S CGCGCCGAGGAGCTGATAGGAAATTATCAAATGY
95754 P C S ATGACGTGGCAGAGGGCTGATAGGAAATTATCAAATGY
95754 T T S TGAGCATTTGATAATTTCCTATCAGCTGTTGGCTGTGCTTATTGCTTAGAAGACATAGGGTAGGCCT
95754 T C S TGAGGATTTGATAATTTCCTATCAGCCGTTGGCTGTGCTTATTGCTTAGAAGACATAGGGTAGGCCT
95754 IS [TC] CAATGAAATGTGGAAGGTATTCTGAATTTACAATTGAGCATTTGATAATTTCCTATCAGC[TC]GTTGGCTGTGCTTATTGCTTAGAAGACATAGGGTAGGCCTCTCACC AGCTGGAAGGTCTT
95756 I S CCAACCCTGGCTGCCATGCTCCCT
95756 P C S ATGACGTGGCAGACGTTGTCCCTGTATTCATAAATCY
95756 P T S CGCGCCGAGGAATTGTCCCTGTATTCATAAATCTY
95756 T C S AGCAAGATTTATGAATACAGGGCACAACGGGAGCATGGCAGCCAGGGTTGGGG
95756 T T S AGCAAGATTTATGAATACAGGGCACAATGGGAGCATGGCAGCCAGGGTTGGGG
95756 IS [CT] AAAAAGTGGCTCATGCCACTTTGTTTTGAGAAGCAGCAAGATTTATGAATACAGGGCACAA[CT]GGGAGCATGGCAGCCAGGGTTGGGGGGTAGCCAAGACACAGTCATG GAAGCTGTAGCTGA
95757 I S TCTAGAAGCCCCATATAAGTGTTGGTTACACTGTTATAAAATTCAAATGCATCTCT
95757 P T S CGCGCCGAGGAGTCTGTTGAGTAGTGCTY
95757 P C S ATGACGTGGCAGACGGTCTGTTGAGTAGTGCY
95757 T T S CATCAGCACTACTCAACAGACTGAGATGCATTTGAATTTTATAACAGTGTAACCAACACTTATATGGGGCTTCTAGAGT
95757 T C S CATCAGCACTACTCAACAGACCGAGATGCATTTGAATTTTATAACAGTGTAACCAACACTTATATGGGGCTTCTAGAGT
95757 IS [TC] CAGAGGGTTTGGTTGCTTTTAACTCATGAGATTTATATTCATCAGCACTACTCAACAGAC[TC]GAGATGCATTTGAATTTTATAACAGTGTAACCAACACTTATATGGG GCTTCTAGAGTCTT
95762 I S CTGCATACTGCACCTGAGAAATACAAATGAATAATTATTTATAATAACCACTT
95762 P C S ATGACGTGGCAGAGTCATGAGTGTTAACCCTTY
95762 P T S CGCGCCGAGGATCATGAGTGTTAACCCTTGY
95762 T C S CGAGCAAGGGTTAACACTCATGACAGTGGTTATTATAAATAATTATTCATTGTATTTCTCAGGTGCAGTATGCAGTT
95762 T T S CGAGCAAGGGTTAACACTCATGATAGTGGTTATTATAAATAATTATTCATTGTATTTCTCAGGTGCAGTATGCAGTT
95762 IS [CT] TCCCCCAACCATCTCTCCTCTCCTTCTCGGATCTCAAACGAGCAAGGGTTAACACTCATGA[CT]AGTGGTTATTATAAATAATTATTCATTGTATTTCTCAGGTGCAGTATG CAGTTACAATCG
95765 I S TCCTTGTGCCTGTTAAAGAAAACCTACAATTTTAAGGAGAAAGGAAGAAAAACT
95765 P C S ATGACGTGGCAGACGCAGAAAAGCTCCATATATTCY
95765 P T S CGCGCCGAGGACAGAAAAGCTCCATATATTCTATY
95765 T C S TTATATAGAATATATGGAGCTTTTCTGCGTTTTTCTTCCTTTCTCCTTAAAATTGTAGGTTTTCTTTAAACAGGCACAAGGAGT
95765 T T S TTATATAGAATATATGGAGCTTTTCTGTGTTTTTCTTCCTTTCTCCTTAAAATTGTAGGTTTTCTTTAAACAGGCACAAGGAGT
95765 IS [CT] TTTTATGAATCTCAAATACCGGGGCCACAAACTTTATATAGAATATATGGAGCTTTTCTG[CT]GTTTTCTTCCTTTCTCCTTAAAATTGTAGGTTTTCTTTAAACAGGC ACAAGGAGTACTC
95768 I A CGCATTTCCCCTTGATCCCCATGGCCT
95768 P G A ATGACGTGGCAGACGCTCATCACACACCCTY
95768 P A A CGCGCCGAGGACTCATCACACACCCTCY
95768 T G A GAGAGAGGGTGTGTGATGAGCGGCCATGGGGATCAAGGGGAAATGCGCA
95768 T A A GAGAGAGGGTGTGTGATGAGTGGCCATGGGGATCAAGGGGAAATGCGCA
95768 IS [GA] GCCTCAGCCCTCGGTTTCCCTTGCTGTGGTTTGCTGCATTTCCCCTTGATCCCCATGGCC[GA]CTCATCACACACCCTCTCTCCTCCCACCCGCCCTGAGCACCGAGGCCTGG CGCAGTCGCT
95771 I A TGCCTGCATTTTTATGCATTTCAGCCTGCT
95771 P G A ATGACGTGGCAGACGATTGAAATGTCATACATCATGCY
95771 P A A CGCGCCGAGGAATTGAAATGTCATACATCATGCY
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95771 IS [GA] TATAAGATATACCTTACCAGATGCATAAAATTGCCTGCATTTTTATGCATTTCAGCCTGC[GA]ATTGAAATGTCATACATCATGCACCAGTATTTATAAATTACCCGTAA GTTGAGTGAAAGG
95774 I S GACCGAACTAGGAGATGGTGCCATCCCCT
95774 P C S ATGACGTGGCAGACGCCATCCTCCACAGAY
95774 P T S CGCGCCGAGGACATCCTCCACAGAAGY
95774 T C S GACACTTCTGTGGAGGATGGCGGGGATGGCACCATCTCCTAGTTCGGTCCT
95774 T T S GACACTTCTGTGGAGGATGGTGGGGATGGCAACCATCTCCTAGTTCGGTCCT
95774 IS [CT] GATGGGCAGGGTGGGAGAATGACAGGTGGTCCCTGCTCCTGACACTTCTGTGCAGGATGG[CT]GGGGATGGCACCATCTCCTAGTTCGGTCCTGGGACTGAACCCTAAAC TAAAGAGGGAAAC
95775 I A GTTCTCATTAGCAGGTGGCTGTGTTGCAGCC
95775 P T A CGCGCCGAGGTAGACACAGCCAGCY
95775 P G A ATGACGTGGCAGACGAGACACCAGCCAGCY
95775 T T A ACTGGCTGGCTGGTGTCTAGCTGCAACACAGCCACCTGCTAATGAGAAACCT
95775 T G A ACTGGCTGGCTGGTGTCTCGCTGCAACACAGCCACCTGCTAATGAGAAACCT
95775 IS [TG] CACGTGGGTACCGTGGCATTCCATATTAGGTTTCTCATTAGCAGGTGGCTGTGTTGCAGC[TG]AGACACCAGCCAGCCAGTTTGGGAGTCTGAAGTGGTTTTCTTTGTAT CTGTTTCAGGCAC
95776 I A TGAGATCTGTTGTTTAACATCAAAGGCAATTCTCCAGACTCAGAAAAATTT
95776 P A A CGCGCCGAGGAGAGCCACATTACATACACY
95776 P G A ATGACGTGGCAGACGGAGCCACATTACATACACY
95776 T A A CACTGTGTATGTAATGTGGCTCTAATTTTTCTGAGTCTGGAGAATTGCCTTTGATGTTAAACAACAGATCTCAGA
95776 T G A CACTGTGTATGTAATGTGGCTCCAATTTTTCTGAGTCTGGAGAATTGCCTTTGATGTTAAACAACAGATCTCAGA
95776 IS [AG] AGCCACCATCTGAGATCTGTTGTTTAACATCAAAGGCAATTCTCCAGACTCAGAAAAATTJAG]GAGCCACATTACATACACAGTGACATGCTTTTTTCTTTTTTGGTTC TGAATTGTCCATG
95777 I S GCCATAGTTGAGCATGGCAGTCCACAGCTCT
95777 P C S ATGACGTGGCAGACGGTGGGGCAGAATAAGGCY
95777 P T S CGCGCCGAGGAGTGGGGAGAATAAGGCY
95777 T C S GCTGGCCTTATTCTCCCCACCGAGCTGTGGACTGCCATGCTCAACTATGGCTA
95777 T T S GCTGGCCTTATTCTCCCCACTGAGCTGTGGACTGCCATGCTCAACTATGGCTA
95777 IS [CT] GGAAGGAGACATGTACCTGGGGAGGGCTGCCGGAAGAACCGTGCTGGCCTATTCTCCCCAC[CT]GAGCTGTGGACTGCCATGCTCAACTATGGCTACGTGGGCTGCATCCG CGACCTATTCATT
95779 I S CAACTGCATTCAATTTGTGTAGTGCAAATTCCTGTAAAAGATAT
95779 P T S CGCGCCGAGGACCAAAATCCTATTTTGAGATAGAY
95779 P C S ATGACGTGGCAGAGCCAAAATCCTATTTTGAGATAGY
95779 T T S TAAGTCTATCTCAAAATAGGATTTTGGTTATCTTTACAGGAATTTGCACTACACAAATTGAATGCAGTTGTT
95779 T C S TAAGTCTATCTCAAAATAGGATTTTGGCTATCTTTACAGGAATTTGCACTACACAAATTGAATGCAGTTGTT
95779 IS [TC] TGCTGAAAAGAATTTTTTAAGGAAGTGTAATGATAAGTCTATCTCAAAATAGGATTTTGG[TC]TATCTTTACAGGAATTTGCACTACACAAATTGAATGCAGTTGTTA ATGACTTCTGGGCA
95784 I A TGGCAAACACCTGGAAATGAGGAATGGAGGTAGAAT
95784 P A A CGCGCCGAGGATTCAGGGCAGGGATAAY
95784 P G A ATGACGTGGCAGACGTTCAGGGCAGGGATTY
NRXN3


95784 T A A TTTTTTATCCCTGCCCTGAATTTCTACCTCCATTCCTCATTTCCAGGTGTTTGCCACA
95784 T G A TTTTTTATCCCTGCCCTGAACTTCTACCTCCATTCCTCATTTCCAGGTGTTTGCCACA
95784 IS [AG] ACTGGCTGTGGGTAGGTCAGTTTTGTGGCCAAACACCTGGAAATGAGGAATGGAGGTAGAA[AG]TTCAGGGCAGGGATAAAAAAAGGTCTGATGGACCCCAAATCTGTC TCAACAGGCTGTCTT
95785 I S GAAACAAAAACTAATAAGCCTACTGGAATTCTTGTTGAATGTTTTTTATGT
95785 P C S ATGACGTGGCAGACGCCTTTTTTCTCCATAAAGATCY
95785 P T S CGCGCCGAGGACCTTTTTTCTCCATAAAGATCY
95785 T C S CCAGGATCTTTATGGAGAAAAAAGGCCATAAAAAACATTCAACAAGAATTCCAGTAGGCTTATTAGTTTCTTGTTTCAA
95785 T T S CCAGGATCTTTATGGAGAAAAAAGGTCATAAAAAACATTCAACAAGAATTCCAGTAGGCTTATTAGTTTCTTGTTTCAA
95785 IS [CT] CATCATGTGTTTTCGGAACAGGCCTTCTTTCTTCTCCAGGATCTTTATGGAGAAAAAAGG[CT]CATAAAAAACATTCAACAAGAATTCCAGTAGGCTTATTAGTTTCTTG TTTCAATACACAA
95786 I S CTTCTGGCTTCCCAAAGTAGACCTGAGTTTGT
95786 P T S CGCGCCGAGGAATCTGAGCTCTGTCTCTTY
95786 P G S ATGACGTGGCAGACCATCTGAGCTCTGTCTCTY
95786 T T S TCACAAGAGACAGAGCTCAGATTCAAACTCAGGTCTACTTTGGGAAGCCAGAAGTA
95786 T G S TCACAAGAGACAGAGCTCAGATGCAAACTCAGGTCTACTTTGGGAAGCCAGAAGTA
95786 IS [TG] ACTCAGGGACAGTTGTGTAATTTGTGAGGTTGCAGGTCTCACAAGAGACAGAGCTCAGAT[TG]CAAACTCAGGTCTACTTTGGGAAGCCAGAAGTATATGCAAAGGACA ACACAGAGGGAAAG
95787 I S CAGCCAGTGTATGTAACAAAAGGAAATAGGCCACTCATGTT
95787 P T S CGCGCCGAGGAAAAGGTTTTATTCTCAGAAGAGY
95787 P C S ATGACGTGGCAGACGAAAGGTTTTATTCTCAGAAGAGY
95787 T T S TGGACTCTTCTGAGAATAAAACCTTTTACATGAGTGGCCTATTTCCTTTTGTTACATACACTGGCTGTT
95787 T C S TGGACTCTTCTGAGAATAAAACCTTTCACATGAGTGGCCTATTTCCTTTTGTTACATACACTGGCTGTT
95787 IS [TC] TATTGCTGGCTTAGCCATTTCTCTGTCTCTGGTCTGGACTCTCTGAGAATAAAACCTTT[TC]ACATGAGTGGCCTATTTCCTTTTGTTACATACACTGGCTGTTCTCTCC CAATTACCTGTT
95788 I S GCTCTTGATAGAAAGTGGCTTCCAGGCAGGCT
95788 P T S CGCGCCGAGGAATTAGGGATTAGAGTTTGACTTAY
95788 P C S ATGACGTGGCAGACGATTAGGGATTAGAGTTTGACTTY
95788 T T S ATCTTAAGTCAAACTCTAATCCCTAATTGCCTGCCTGGAAGCCACTTTCTATCAAGAGCCC
95788 T C S ATCTTAAGTCAAACTCTAATCCCTAATGCCCTGCCTGGAAGCCACTTTCTATCAAGAGCCC
95788 IS [TC] CCAAAACAGACAACACAAGAAGAATGAAAATAAATCTTAAGTCAAACTCTAATCCCTAAT[TC]GCCTGCCTGGAAGCCACTTTCTATCAAGAGCCCTTCTTATATCCCTG TCTTGTCTTGCCC
95789 I A CTCTCGGAAGCATCCATAGTACGCCACGGT
95789 P G A ATGACGTGGCAGACGGATCCAATCTGAAAAGCCY
95789 P A A CGCGCCGAGGAGATCCAATCTGAAAAGCCY
95789 T G A GACAGGCTTTTCAGATTGGATCCCCGTGGCGTACTATGGATGCTTCCGAGAGGG
95789 T A A GACAGGCTTTTCAGATTGGATCTCCGTGGCGTACTATGGATGCTTCCGAGAGGG
95789 IS [GA] TAAATCAGCCAACTTGTATAATAGTGCCCCCCTCTCGGAAGCATCCATAGTACGCCACGG[GA]GATCCAATCTGAAAAGCCTGTCTTGCGGCCTTCACTGCCTTGTCAACA TCCTCCTGTAAG
95791 I S CTGGACTCATTAACCCTGCCTTATTACTTCTTTTAAGTTGTAT
95791 P T S CGCGCCGAGGATGATTGTAGCTTCCTCCTY
95791 P C S ATGACGTGGCAGACGTGATTGTAGCTTCCTCCY
95791 T T S TTCCAGGAGGAAGCTACAATCATTACAACTTAAAAGAAGTAATAAGGCAGGGTTAATGAGTCCAGGA
95791 T C S TTCCAGGAGGAAGCTACAATCACTACAACTTAAAAGAAGTAATAAGGCAGGGTTAATGAGTCCAGGA
95791 IS [TC] CAATGTGCCCTGAAGACTGCCCCAAACCTCTGGATCAGTTCCAGGAGGAAGCTACAATCA[TC]TACAACTTAAAAGAAGTAATAAGGCAGGGTTAATGAGTCCAGGAAA TAAAAGCCTAGAGA
95794 I A GGTCTCCCTCCCCCGCTTTGGGT
95794 P A A CGCGCCGAGGACTGCTGAAGCTGGAY
95794 P G A ATGACGTGGCAGACGCTGCTGAAGCTGGY
95794 T A A TAGCTCCAGCTTCAGCAGTCCCAAACGCGGGCAGGGAGACCTT
95794 T G A TAGCTCCAGCTTCAGCAGCCCAAACGCGGGCAGGGAGACCTT
95794 IS [AG] CGTATAACATAATGACCAAAGCTTCAATCTTCATTTAAGGTCTCCCTCCCCGCGTTTGGG[AG]CTGCTGAAGCTGGAGCTATAAGAAAGAAGAGGCAGGTAGATGTCTT CTCTCTTTCCCTTC
95796 I A CAACTGATGTCTAAGAGGGAGTCTTTGCTCTTCCCAAGT
95796 P A A CGCGCCGAGGAGAGTTCAGACAGGATCAAY
95796 P G A ATGACGTGGCAGACGGAGTTCAGACAGGATCAY
95796 T A A ACTCTTGATCCTGTCTGAACTCTCTTGGGAAGAGCAAAGACTCCCTCTTAGACATCAGTTGCA
95796 T G A ACTCTTGATCCTGTCTGAACTCCCTTGGGAAGAGCAAAGACTCCCTCTTAGACATCAGTTGCA
95796 IS [AG] ACCATACAGACCACAGTAGCTGCAACTGATGTCTAAGAGGGAGTCTTTGCTCTTCCCAAG[AG]GAGTTCAGACAGGATCAAGAGTGAACACAGAGACTTACGACGCCCGC GGCCAGGGGTGAT
95799 I A AGGAGCCAGGGGCTCAGCCTACCT
95799 P G A ATGACGTGGCAGACGGCCTCCTCTTCTCCY
95799 P A A CGCGCCGAGGAGCCTCCTCTTCTCCAY
95799 T G A TGGATGGAGAAGAGGAGGCCGGTAGGCTGAGCCCCTGGCTCCTGG
95799 T A A TGGATGGAGAAGAGGAGGCTGGTAGGCTGAGCCCCTGGCTCCTGG
95799 IS [GA] CCAGATTTCCTACCTGCCATGGCTGTGTGTTCGTTCCAGGAGCCAGGGGCTCAGCCTACC[GA]GCCTCCTCTTCTCCATCCATTCACACCGCTGTGCCTCTTCCTTCCTGAG CCTGGCTACTG
95800 I S AGGAAAAGTAGGGGAGCTAAGGAAGCTACCTACACCT
95800 P C S ATGACGTGGCAGACGCCCTCACCCCCY
95800 P T S CGCGCCGAGGACCTCACCCCCAY
95800 T C S CTACTGGGGGTGAGGGCGGTGTAGGTAGCTCCTTAGCTCCCCTACTTTCCTGT
95800 T T S CTACTGGGGGTGAGGGCTGGTGTAGGTAGCTTCCTTAGCTCCCCTACTTTCCTGT
95800 IS [CT] CTCCATCCATTCACACCGCTGTGCCTCTCCTTCCTGAGCCTGGCTACTGGGGGTGAGGG[CT]GGTGTAGGTAGCTTCCTTAGCTCCCCTACTTTTCCTGTCTTAAGGTCAG GCACAGTAGAA
95802 I A AAATCTTTAGCTCCAGTCATGACAAGGCCAGTTCAAACTT
95802 P C A ATGACGTGGCAGACCGCAGGCTTATTCCTAAATY
95802 P A A CGCGCCGAGGAGCAGGCTTATTCCTAAATTY
95802 T C A CATGAATTTAGGAATAAGCCTGGGAGTTTGAACTGGCCTTGTCATGACTGGAGCTAAAGATTTGA
95802 T A A CATGAATTTAGGAATAAGCCTGCTAGTTTGAACTGGCCTTGTCATGACTGGAGCTAAAGATTTGA
95802 IS [CA] CCTCAATTCTCCCTGTTCATCAAATCTTTAGCTCCAGTCATGACAAGGCCAGTTCAAACT[CA]GCAGGCTTATTCCTAAATTCATGATGCCATAAAGGTCTAGTTTTGGCA TCACCCAGGTCC
95803 I A GCTCTCCCTGCTGGAATTTGTAACTTTTCCAAAT
95803 P A A CGCGCCGAGGACTATGCCATTAAGCCATACY
95803 P G A ATGACGTGGCAGACGCTATGCCATTAAGCCATY
95803 T A A AGAAGTATGGCTTAATGGCATAGTTTTGGAAAAGTTACAAATTCCAGCAGGGAGAGCAA
95803 T G A AGAAGTATGGCTTAATGGCATAGCTTTGGAAAAGTTACAAATTCCAGCAGGGAGAGCAA
95803 IS [AG] ACTAACAGGTACCATGTAATATTCATTGCTCTCCCTGCTGGAATTTGTAACTTTTCCAAA[AG]CTATGCCATTAAGCCATACTTCTCATATCCTTTTTCCTCTTCAGAAGG AAGAGGTTTCTT
95804 I A GCTATCCAAGTGTTAAGTTTTAGTGGCTAGAAGAAATAATGATATGTTATGT
95804 P G A ATGACGTGGCAGACGTGGAAGTGTGGAGCTY
95804 P A A CGCGCCGAGGATGGAAGTGTGGAGCTY
95804 T G A AGACAGCTCCACACTTCCACCATAACATATCATTATTTCTTCTAGCCACTAAAACTTAACACTTGGATAGCAG



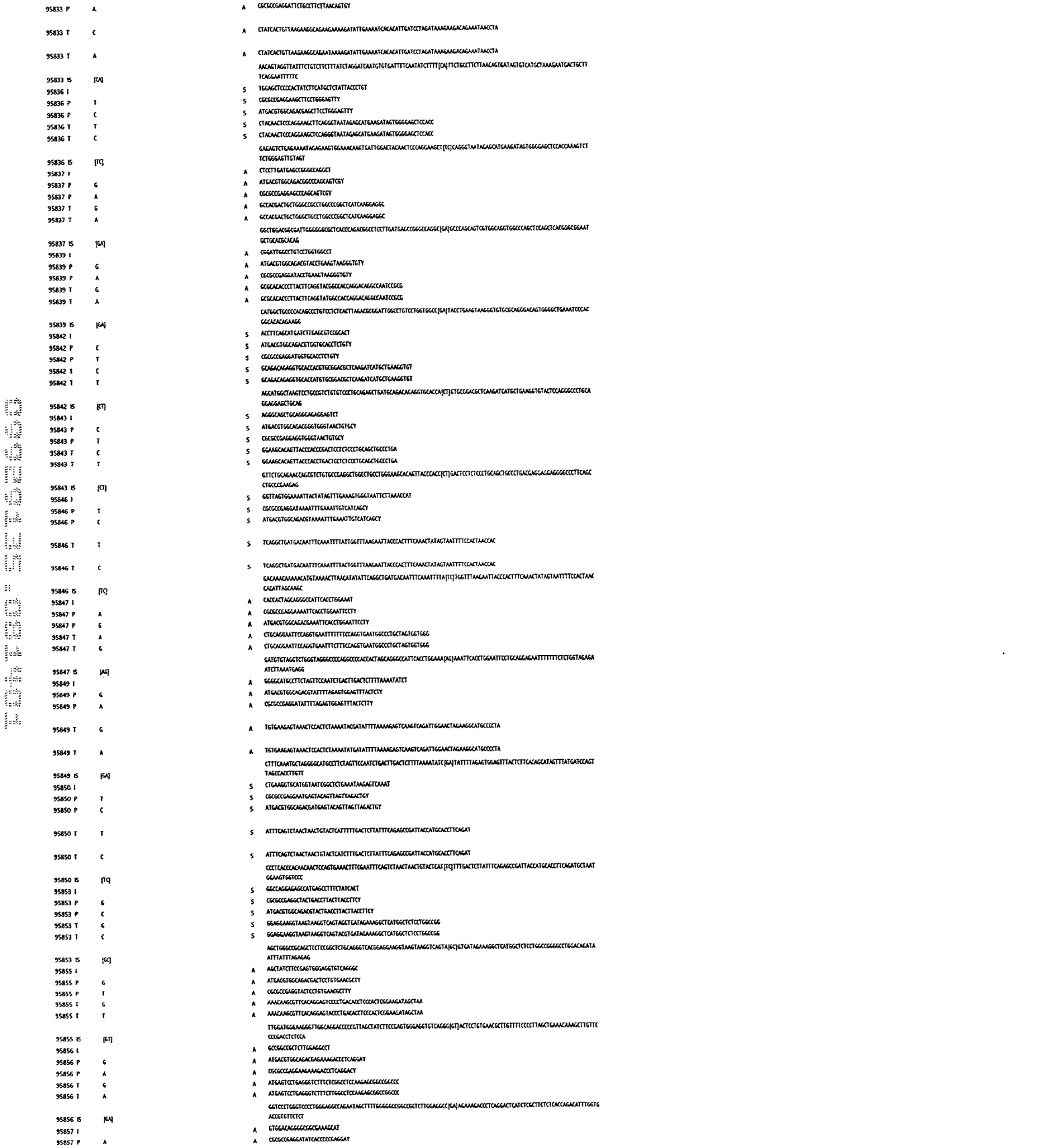
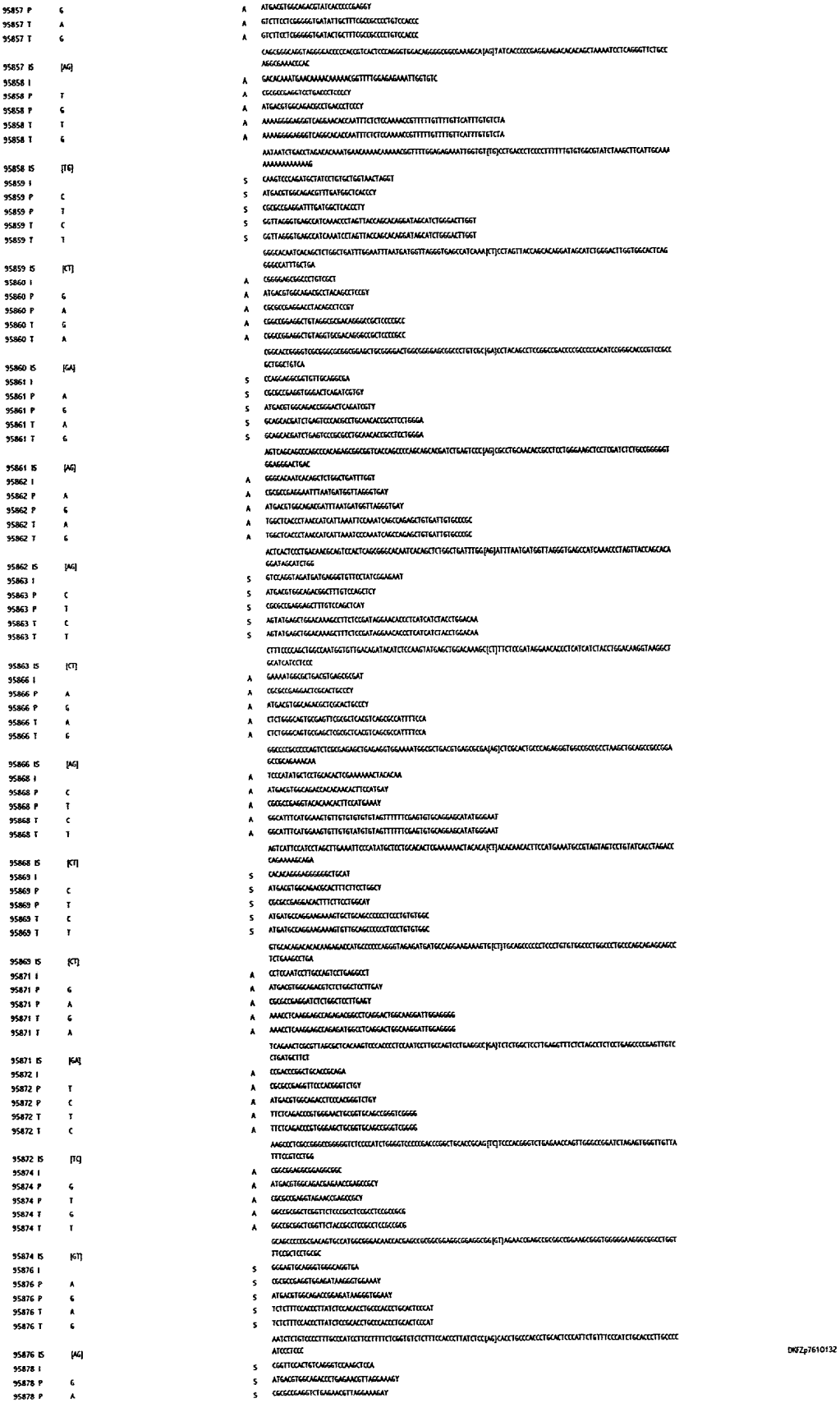

95833 P A A CGCGCCGAGGATTCTGCCTTCTTAACAGTGY
95833 T C A CTATCACTGTTAAGAAGGCAGAAGAAAAGATATTGAAAATCACACATTGATCCTAGATAAAGAAGACAGAAATAACCTA
95833 T A A CTATCACTGTTAAGAAGGCAGAATAAAAGATATTGAAAATCACACATTGATCCTAGATAAAGAAGACAGAAATAACCTA
AACAGTAGGTTATTTCTGTCTTCTTTATCTAGGATCAATGTGTGATTTTCAATATCTTTT[CA]TTCTGCCTTCTTAACAGTGATAGTGTCATGCTAAAGAATGACTGCTT
95833 IS [CA] TCAGGAATTTTTC
95836 I S TGGAGCTCCCCACTATCTTCATGCTCTATTACCCTGT
95836 P T S CGCGCCGAGGAAGCTTCCTGGGAGTTY
95836 P C S ATGACGTGGCAGACGAGCTTCCTGGGAGTTY
95836 T T S CTACAACTCCCAGGAAGCTTCAGGGTAATAGAGCATGAAGATAGTGGGGAGCTCCACC
95836 T C S CTACAACTCCCAGGAAGCTCCAGGGTAATAGAGCATGAAGATAGTGGGGAGCTCCACC
GAGAGTCTGAGAAAATACAGAAGTGGAAACAAGTGATTGGACTACAACTCCCAGGAAGCT[TC]CAGGGTAATAGAGCATGAAGATAGTGGGGAGCTCCACCAAAGTCT
95836 IS [TC] TCTGGGAGTTGTAGT
95837 I A CTCCTTGATGAGCCGGGGCAGGCT
95837 P G A ATGACGTGGCAGACGGCCCAGCAGTCGY
95837 P A A CGCGCCGAGGAGCCCAGCAGTCGY
95837 T G A GCCACGACTGCTGGGCCGCCTGGCCCGGCTCATCAAGGAGGC
95837 T A A GCCACGACTGCTGGGCTGCCTGGCCCGGCTCATCAAGGAGGC
GGCTGGACGGCGATTGGGGGGCGCTCACCCAGACGGCCTCCTTGATGAGCCGGGCCAGGC[GA]GCCCAGCAGTCGTGGCAGGTGGCCCAGCTCCAGCTCACGGGCGGAAT
95837 IS [GA] GCTGCACGCACAG
95839 I A CGGATTGGCCTGTCCTGGTGGCCT
95839 P G A ATGACGTGGCAGACGTACCTGAAGTAAGGGTGTY
95839 P A A CGCGCCGAGGATACCTGAAGTAAGGGTGTY
95839 T G A GCGCACACCCTTACTTCAGGTACGGCCACCAGGACAGGCCAATCCGCG
95839 T A A GCGCACACCCTTACTTCAGGTATGGCCACCAGGACAGGCCAATCCGCG
CATGGCTGCCCCACAGCCCTGTCCTCTACTTAGACGCGGATTGGCCTGTCCTGGTGGCC[GA]TACCTGAAGTAAGGGTGTGCGCAGGGACAGTGGGGCTGAAATCCCAC
95839 IS [GA] GGCACACAGAAGG
95842 I S ACCTTCAGCATGATCTTGAGCGTCCGCACT
95842 P C S ATGACGTGGCAGACGTGGTGCACCTCTGTY
95842 P T S CGCGCCGAGGATGGTGCACCTCTGTY
95842 T C S GCAGACAGAGGTGCACCACGTGCGGACGCTCAAGATCATGCTGAAGGTGT
95842 T T S GCAGACAGAGGTGCACCATGTGCGGACGCTCAAGATCATGCTGAAGGTGT
AGCATGGCTAAGTCCTGCGGTCTGTGTCCCTGCAGAGCTGATGCAGACAGAGGTGCACCA[CT]GTGCGGACGCTCAAGATCATGCTGAAGGTGTACTCCAGGGCCCTGCA
95842 IS [CT] GCAGGAGCTGCAG
95843 I S ACGGCAGCTGCAGGGACAGAGAGTCT
95843 P C S ATGACGTGGCAGACGGGTGGGTAACTGTGCY
95843 P T S CGCGCCGAGGAGGTGGGTAACTGTGCY
95843 T C S GGAAGCACAGTTACCCACCGACTCCTCTCCCTGCAGCTGCCCTGA
95843 T T S GGAAGCACAGTTACCCACCTGACTCCTCTCCCTGCAGCTGCCCTGA
GTTCTGCAGAACCAGCGTCTGTGCCCAGGCTGGCCTGCCTGGGAAGCACAGTTACCCACC[CT]GACTCCTCTCCCTGCAGCTGCCCTGACGAGCAGGAGGGGCCCTTCAGC
95843 IS [CT] CTGCCCGAAGAG
95846 I S GGTTAGTGGAAAATTACTATAGTTTGAAAGTGGGTAATTCTTAAACCAT
95846 P T S CGCGCCGAGGATAAAATTTGAAATTGTCATCAGCY
95846 P C S ATGACGTGGCAGACGTAAAATTTGAAATTGTCATCAGCY
95846 T T S TCAGGCTGATGACAATTTCAAATTTTATTGGTTTAAGAATTACCCACTTTCAAACTATAGTAATTTTCCACTAACCAC
95846 T C S TCAGGCTGATGACAATTTCAAATTTTACTGGTTTAAGAATTACCCACTTTCAAACTATAGTAATTTTCCACTAACCAC
GACAAACAAAAACATGTAAAACTTAACATATATTCAGGCTGATGACAATTTCAAATTTTA[TC]TGGTTTAAGAATTACCCACTTTCAAACTATAGTAATTTTCCACTAAC
95846 IS [TC] CACATTAGCAAGC
95847 I A CACCACTAGCAGGGCCATTCACCTGGAAAT
95847 P A A CGCGCCGAGCAAAATTCACCTGGAATTCCTY
95847 P G A ATGACGTGGCAGACGAAATTCACCTGGAATTCCTY
95847 T A A CTGCAGGAATTCCAGGTGAATTTTTTTCCAGGTGAATGGCCCTGCTAGTGGTGGG
95847 T G A CTGCAGGAATTCCAGGTGAATTTCTTTCCAGGTGAATGGCCCTGCTAGTGGTGGG
GATGTGTAGGTCTGGGTAGGGCCCCAGGCCCCACCACTAGCAGGGCCATTCACCTGGAAA[AG]AAATTCACCTGGAATTCCTGCAGGAGAATTTTTTTCTCTGGTAGAGA
95847 IS [AG] ATCTTAAATGAGG
95849 I A GGGGCATGCCTTCTAGTTCCAATCTGACTTGACTCTTTTAAAATATCT
95849 P G A ATGACGTGGCAGACGTATTTTAGAGTGGAGTTTACTCTY
95849 P A A CGCGCCGAGGATATTTTAGAGTGGAGTTTACTCTTY
95849 T G A TGTGAAGAGTAAACTCCACTCTAAAATACGATATTTTAAAAGAGTCAAGTCAGATTGGAACTAGAAGGCATGCCCCTA
95849 T A A TGTGAAGAGTAAACTCCACTCTAAAATATGATATTTTAAAAGAGTCAAGTCAGATTGGAACTAGAAGGCATGCCCCTA
CTTTCAAATGCTAGGGGGCATGCCTTCTAGTTCCAATCTGACTTGACTCTTTTAAAATATC[GA]TATTTTAGAGTGGAGTTTACTCTTCACAGCATAGTTTATGATCCAGT
95849 IS [GA] TAGCCACCTTGTT
95850 I S CTGAAGGTGCATGGTAATCGGCTCTGAAATAAGAGTCAAAT
95850 P T S CGCGCCGAGGAATGAGTACAGTTAGTTAGACTGY
95850 P C S ATGACGTGGCAGACGATGAGTACAGTTAGTTAGACTGY
95850 T T S ATTTCAGTCTAACTAACTGTACTCATTTTTGACTCTTATTTCAGAGCCGATTACCATGCACCTTCAGAT
95850 T C S ATTTCAGTCTAACTAACTGTACTCATCTTTGACTCTTATTTCAGAGCCGATTACCATGCACCTTCAGAT
CCCTCACCCACAACAACTCCAGTGAAACTTTCGAATTTCAGTCTAACTAACTGTACTCAT[TC]TTGACTCTTATTTCAGAGCCGATTACCATGCACCTTCAGATGCTAAT
95850 IS [TC] GGAAGTGGTCCC
95853 I S GGCCAGGAGAGCCATGAGCCTTTCTATCACT
95853 P G S CGCGCCGAGGCTACTGACCTTACTTACCTTCY
95853 P C S ATGACGTGGCAGACGTACTGACCTTACTTACCTTCY
95853 T G S GGAGGAAGGTAAGTAAGGTCAGTAGGTGATAGAAAGGCTCATGGCTCTCCTGGCCGG
95853 T C S GGAGGAAGGTAAGTAAGGTCAGTACGTGATAGAAAGGCTCATGGCTCTCCTGGCCGG
AGCTGGGCTGGCAGCTCCTCCGGCTCTGCAGGGTCACGGAGGAAGGTAAGTAAGGTCAGTA[GC]GTGATAGAAAGGCTCATGGCTCTCCTGGCCGGGGCCTGGACAGATA
95853 IS [GC] ATTTATTTAGAGAG
95855 I A AGCTATCTTCCGAGTGGGAGGTGTCAGGGC
95855 P G A ATGACGTGGCAGACGACTCCTGTGAACGCTY
95855 P T A CGCGCCGAGGTACTCCTGTGAACGCTTY
95855 T G A AAACAAGCGTTCACAGGAGTCCCCTGACACCTCCCACTCGGAAGATAGCTAA
95855 T T A AAACAAGCGTTCACAGGAGTACCCTGACACCTCCCACTCGGAAGATAGCTAA
TTGGATGCGAAGGGTTGGCAGGACCCCCGTTAGCTATCTTCCGAGTGGGAGGTGTCAGGG[GT]ACTCCTGTGAACGCTTGTTTTCCCCTTAGCTGAAACAAAGCTTGTTC
95855 IS [GT] CCCGACCTCTCCA
95856 I A GCCGGCCGCTCTTGGAGGCCT
95856 P G A ATGACGTGGCAGACGAGAAAGACCCTCAGGAY
95856 P A A CGCGCCGAGGAAGAAAGACCCTCAGGACY
95856 T G A ATGAGTCCTGAGGGTCTTTCTCGGCCTCCAAGAGGGGCCCCCCC
95856 T A A ATGAGTCCTGAGGGTCTTTCTTGGCCTCCAAGAGCGGCCCGCCC
GGTCCCTGGGTCCCCTGGGAGGCCAGAATAGCTTTTGGGGGCCGGCCGCTCTTGGAGGCC[GA]AGAAAGACCCTCAGGACTCATCTCGCTTCTCTCACCAGACATTTGGTG
95856 IS [GA] ACCGTGTTCTCT
95857 I A GTGGACAGGGGCGGCGAAAGCAT
95857 P A A CGCGCCGAGGATATCACCCCCGAGGAY

FIGURE 129C



EXFZp7610132

95878	T	G	S	TTGGTCTTTCCTAACGTTCTCAGGGGAGCTTGGACCCTGACAGTGGAACCCAG
95878	T	A	S	TTGGTCTTTCCTAACGTTCTCAGAGGAGCTTGGACCCTGACAGTGGAACCCAG
95878	IS	[GA]		ACGGGGGTGGCAGAAAATAAGGAGGTCAGGGAAAACTTTGGTCTTTCCTAACGTTCTCAG[GA]GGAGCTTGGACCCTGACAGTGGAACCGAGCTGGGGACCCTGGAGAC CAGGCAGCCAGGG
95879	I		A	TGAGTGCCCCCATCTTTTCAGTCCTTCTCTGGT
95879	P	G	A	ATGACGTGGCAGACGTCCTTGAAGGAGGGGY
95879	P	A	A	CGCGCCGAGGATCCTTGAAGGGAGGGY
95879	T	G	A	CTATCCCTCCCTTCAAGGACCCAGAGAAGGACTGAAAAGATGGGGGCACTCACC
95879	T	A	A	CTATCCCTCCCTTCAAGGATCCAGAGAAGGACTGAAAAGATGGGGGCACTCACC
95879	IS	[GA]		GGTCCTGCAGGGACACCCAGGTCCCCCGGTGAGTGCCCCCATCTTTTCAGTCCTTCTCTGG[GA]TCCTTGAAGGGAGGGATAGTGGGAGCAAACGACAGTGGAAGCACACT GACTTAATCAAA
95880	I		A	GTGGACAAAGGGTCTCCAGGAGATGGGAATCT
95880	P	G	A	ATGACGTGGCAGACGCTTACTTGGAAATTTGGCY
95880	P	A	A	CGCGCCGAGGACTTACTTGGAAATTTGGCCY
95880	T	G	A	GGAAGGCCAAATTTCCAAGTAAGCGATTCCCATCTCCTGGAGACGCTTTGTCCACAG
95880	T	A	A	GGAAGGCCAAATTTCCAAGTAAGTGATTCCCATCTCCTGGAGACGCTTTGTCCACAG
95880	IS	[GA]		TCATCCTCTTTCTCCTGCCAGAAGGAACTGTGGACAAAGCGTCTCCAGGAGATGGGAATC[GA]CTTACTTGGAAATTTGGCCTTCCCTGCACACCCCCGCACAGATGACCT TGACAGGCCTCC
95887	I		S	CACAGAGCCCACTGCACAGACTAGGCTGT
95887	P	C	S	ATGACGTGGCAGACGGAGCTGGCTGGGY
95887	P	G	S	CGCGCCGAGGCGAGCTGGCTGGGY
95887	T	C	S	CAGGCCCAGCCAGCTCCCAGCCTAGTCTGTGCAGTGGGCTCTGTGCA
95887	T	G	S	CAGGCCCAGCCAGCTGCAGCCTAGTCTGTGCAGTGGGCTCTGTGCA
95887	IS	[CG]		GGCTGGCCTGTCTTCCTCTGGGACTTGACTGGGAGTCCAGGACCCAGGCCCAGCCAGCTC[CG]CAGCCTAGTCTGTGCAGTGGGCTCTGTGCACGTCAGAGGGAGGGCGT GATGGCCTTACAG
95890	I		S	GCTCATCCAGTGTTTGCTTTAATTCTTCCTCAAACAGATTCTTCTCTTTAT
95890	P	T	S	CGCGCCGAGGACCATTTCCTCTTGAAAAGAAY
95890	P	C	S	ATGACGTGGCAGACGCCATTTCCTCTTGAAAAGY
95890	T	T	S	TCTGTTCTTTTCAACAGGAAATGGTTAAAGAGAAGAATCTGTTTGAGGAAGAATTAAAGCAAACACTGGATGAGCTT
95890	T	C	S	TCTGTTCTTTTCAACAGGAAATGGCTAAAGAGAAGAATCTGTTTGAGGAAGAATTAAAGCAAACACTGGATGAGCTT
95890	IS	[TC]		GGATATAGGAATTATCTTCGAGTCTTCATCAGAAGCTCTGTTCTTTTCAAGAGGAAATGC[TC]TAAAGAGAAGAATCTGTTTGAGGAAGAATTAAAGCAAACACTGGA TGAGCTTGATAAATT
95891	I		A	CTAGAAGAAAAGCTGAAAGGGTTTGTATTAATAAGGATCTCATGTTTATT
95891	P	A	A	CGCGCCGAGGATATGACTTCAGATGTATTTATTTTGAY
95891	P	G	A	ATGACGTGGCAGACGTATGACTTCAGATGTATTTATTTTGAY
95891	T	A	A	GTACTCAAAATAAATACATCTGAAGTCATATATAAACATGAGATCCTATTAATACAAACCCTTTCAGCTTTTCTTCTAGGA
95891	T	G	A	GTACTCAAAATAAATACATCTGAAGTCATACATAAACATGAGATCCTATTAATACAAACCCTTTCAGCTTTTCTTCTAGGA
95891	IS	[AG]		GAATTAAAACTCCTAGAAGAAAAGCTGAAAGGGTTTGTATTAATAGGATCTCATGTTTATTAT[AG]TATGACTTCAGATGTATTTATTTTGAGTACTTTTTTTAGTATTCTC TTATCAATCATGTG
95892	I		A	CTGATTGGATCCCTTCATCTTTTCTGATAACTGAAAAACAAATTTGGCTT
95892	P	G	A	ATGACGTGGCAGACGTCATATCTGTGACATCTAAATTTGY
95892	P	C	A	CGCGCCGAGGCTCATATCTGTGACATCTAAATTTGY
95892	T	G	A	TAAGCAAATTTAGATGTCACAGATATGAGAGCCAAATTTGTTTTCAGTTATCAGAAAAGATGAAGGGATCCAATCAGTT
95892	T	C	A	TAAGCAAATTTAGATGTCACAGATATGAGAGCCAAATTTGTTTTCAGTTATCAGAAAAGATGAAGGGATCCAATCAGTT
95892	IS	[GC]		ATAGAAACTAACTGATTGGATCCCTTCATCTTTTCTGATAACTGAAAAACAAATTTGGCT[GC]TCATATCTGTGACATCTAAATTTGCTTATAAGTTTTTTTGGCTTTTA AACAGAAGGAATC
95893	I		A	CGCGTGTGAAGCAGCGGCCCAT
95893	P	G	A	ATGACGTGGCAGACGCTTGGAGATCTTGCCY
95893	P	A	A	CGCGCCGAGGACTTGGAGATCTTGCCCY
95893	T	G	A	CGACGGGCAAGATCTCCAAGCTGGGCCGCTCCTTCACACGCGCC
95893	T	A	A	CGACGGGCAAGATCTCCAAGTTGGGCCGCTCCTTCACACGCGCC
95893	IS	[GA]		CCGCCCGCACCTGGCAGCCATAGCGTCGTAGTCCCGGGCGCGTGTGAAGCAGCGGCCCA[GA]CTTGGAGATCTTGCCCGTCGCCTTGTCGATGGTGATCACGTCCCTACA GGGGGATGCGGG
95897	I		A	CTGCTCCCGGATCGGAGGCCAGA
95897	P	C	A	ATGACGTGGCAGACCGTCTCGGGTGCCCY
95897	P	T	A	CGCGCCGAGGTGTCTGGGTGCCCY
95897	T	C	A	GAGCGGGCACCCAGACGGTGCCTCCGATCCGGGAGCAGGA
95897	T	T	A	GAGCGGGCACCCAGACAGTGCCTCCGATCCGGGAGCAGGA
95897	IS	[CT]		AGTCACGGGTACCTCGCCTCCCTTCCCACCGTGACTCCTGCTCCCGGATCGGAGGCCAC[CT]GTCTGGGTGCCCGCTCAGCCCTCTCTCCTGTAGGCCCAGCCACCATGCCA CTCCGCTGGA
95902	I		A	TTTGGTGTCAGTTTCTGTAACGCCTTTCTATTTCAATCAAGGCTATTAC
95902	P	T	A	CGCGCCGAGGTCTTTTCCTCTGTTTTAGTGAAY
95902	P	A	A	ATGACGTGGCAGACTTTTCCTCTGTTTTAGTGAAY
95902	T	T	A	AAACTTCACTAAAACAGAGGAAAAGATAATAGCCTTGATTGAAATAGAAAGGCGTTACAGAAACTGACACCAAACA
95902	T	A	A	AAACTTCACTAAAACAGAGGAAAAGTTAATAGCCTTGATTGAAATAGAAAGGCGTTACAGAAACTGACACCAAACA
95902	IS	[TA]		TCTGTTGTGTTGTTTGGTGTCAGTTTCTGTAACGCCTTTCTATTTCAATCAAGGCTATTA[TA]CTTTTCCTCTGTTTTAGTGAAGTTTCCTTGAAGTAGAAAATGGGAGT GTATTGGGCATCT
95903	I		S	ACTTCTGCTCCCAGGGGCTGGGGT
95903	P	T	S	CGCGCCGAGGAACAGGAAGCAGGTGTY
95903	P	C	S	ATGACGTGGCAGACGACAGCAAGCAGGTGTY
95903	T	T	S	GGGTACACCTGCTTCCTGTTCCCCAGCCCCTGGGAGCAGAAGTGG
95903	T	C	S	GGGTACACCTGCTTCCTGTCCCCCAGCCCCTGGGAGCAGAAGTGG
95903	IS	[TC]		GCCAACAGGAGACGGAGCTCAGGCAGCTGGAGACTCAGGCTGGGGTACACCTGCTTCCTGTTCTCCCCAGCCCCTGGGAGCAGAAGTGGCCCCTCCAGTCTCCCCTCCAGCA TTTCCTATTCCT
95904	I		S	TGGGGATTGTGAAACCATTGTGGAATGAATGAAGACAGAATTCT
95904	P	C	S	ATGACGTGGCAGACGTTGAGAGCCCATCAGAY
95904	P	T	S	CGCGCCGAGGATTGAGAGCCCATCAGAY
95904	T	C	S	TGTGTCTGATGGGCTCTCAACGAATTCTGTCTTCATTCATTCCACAATGGTTTCACAATCCCCATC
95904	T	T	S	TGTGTCTGATGGGCTCTCAATGAATTCTGTCTTCATTCATTCCACAATGGTTTCACAATCCCCATC
95904	IS	[CT]		CATTGTAGGCAAACACAGAAGTATCCTCAGCTGTTAGCATTGTGTCTGATGGGCTCTCAA[CT]GAATTCTGTCTTCATTCATTCCACAATGGTTTCACAATCCCCATCTTG GCTTACTCCTGC
95906	I		S	CCACCAGACCACCATACCCTGCATTGCATCT
95906	P	T	S	CGCGCCGAGGATCCCACCTACCTTCAAGY
95906	P	C	S	ATGACGTGGCAGACGTCCCACCTACCTTCAAY
95906	T	T	S	ACTTCTTGAAGGTAGGTGGGATGATGCAATGCAGGGTATGGTGCTCTGGTGGAA
95906	T	C	S	ACTTCTTGAAGGTAGGTGGGACGATGCAATGCAGGGTATGGTGCTCTGGTGGAA
95906	IS	[TC]		GGAATGCTGAGAAGGTGTCCCAGATGCTCAGGCATTTTGACTTCTTGAAGGTAGGTGGGA[TC]GATGCAATGCAGGGTATGGTGCTCTGGTGGAAGAGTGTAGCGGTA TGTGGGTCCCTGCCT
95911	I		S	CTCCTTTCTTGGTTTCTTTTGAATCTTTGTGATATGGTAGAGAAT
95911	P	T	S	CGCGCCGAGGAGTTTGATAAAGTGTTCTTGTGY
95911	P	G	S	ATGACGTGGCAGACGTTTGATAAAGTGTTCTTGTGY

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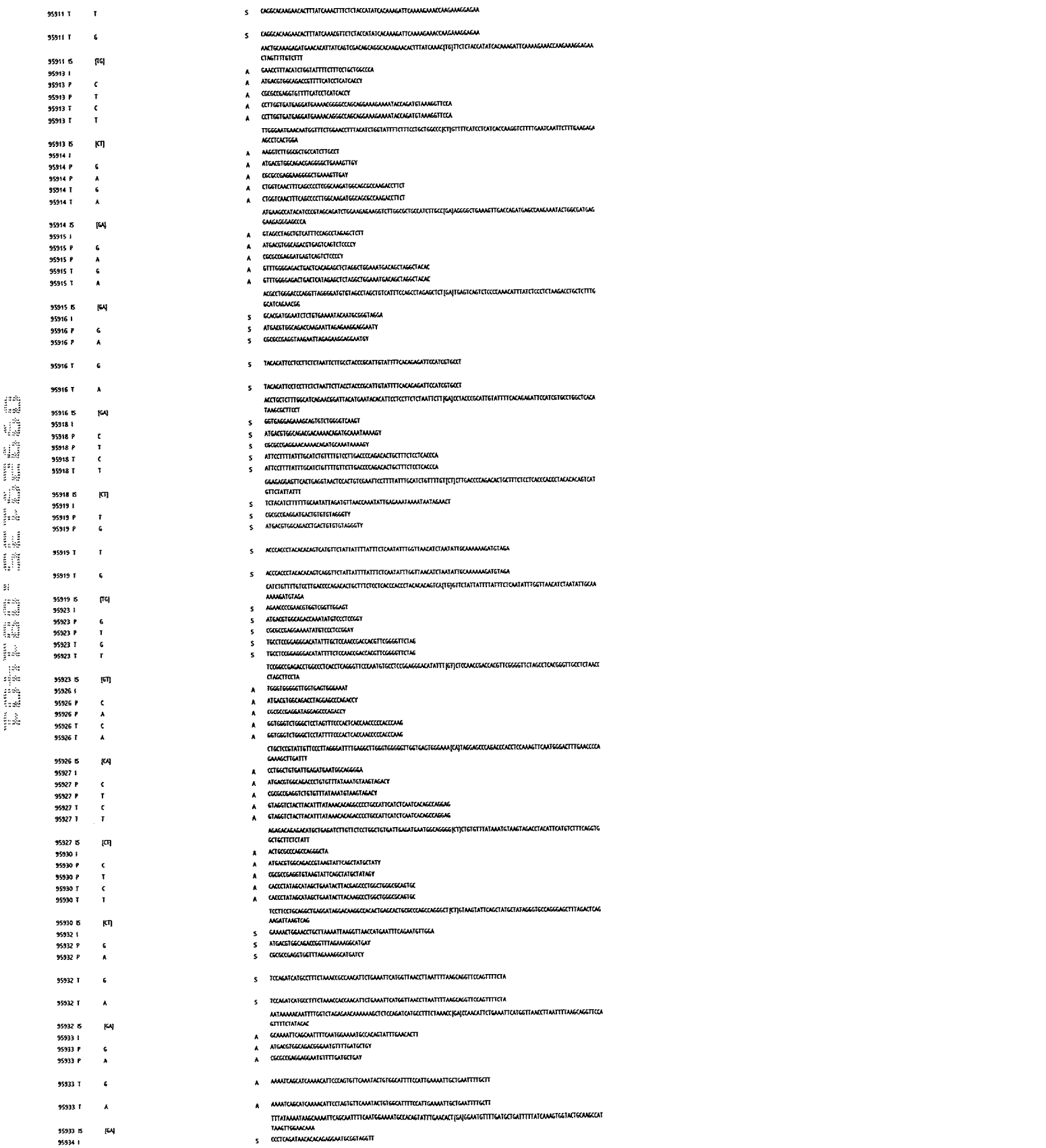
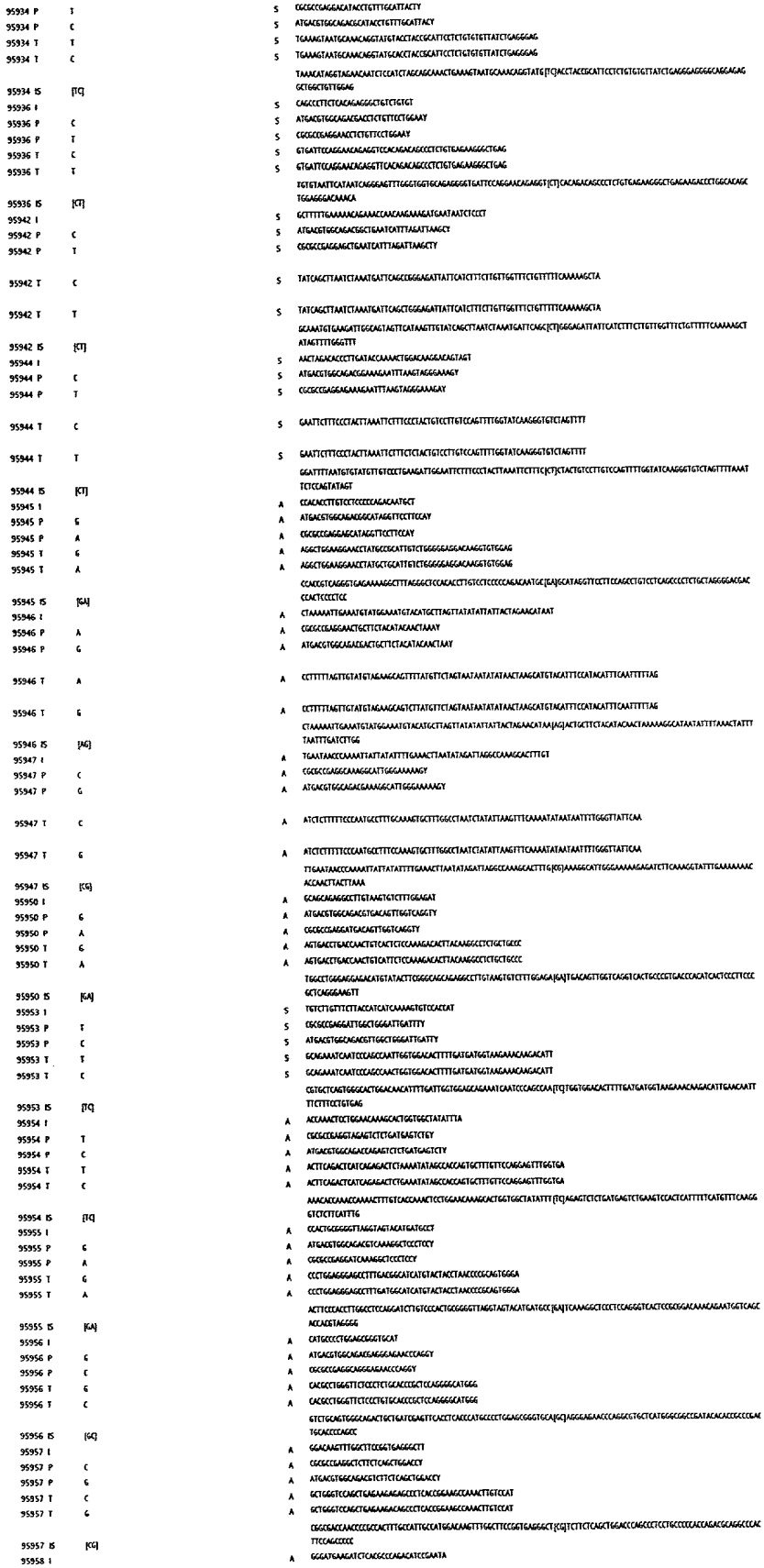
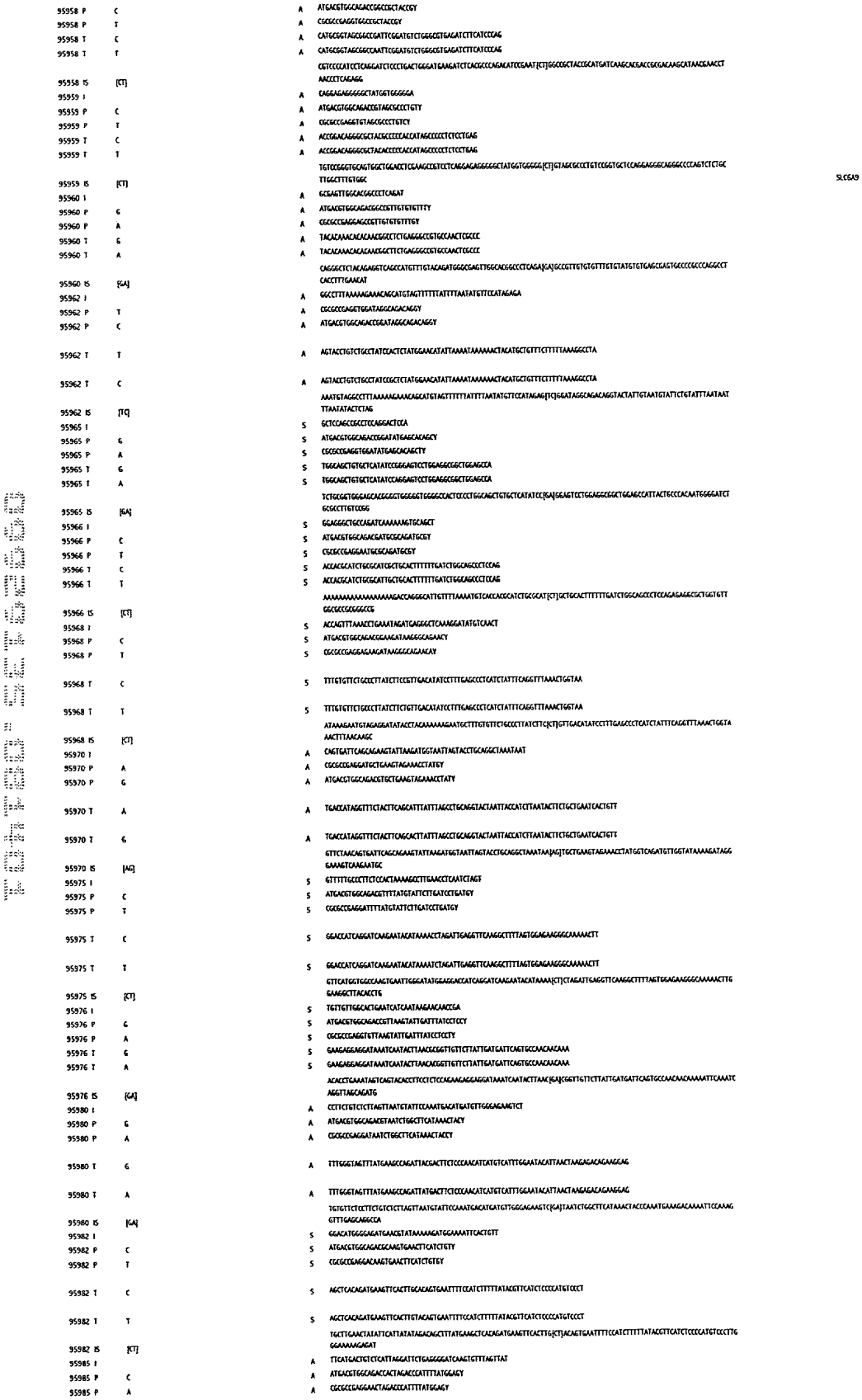
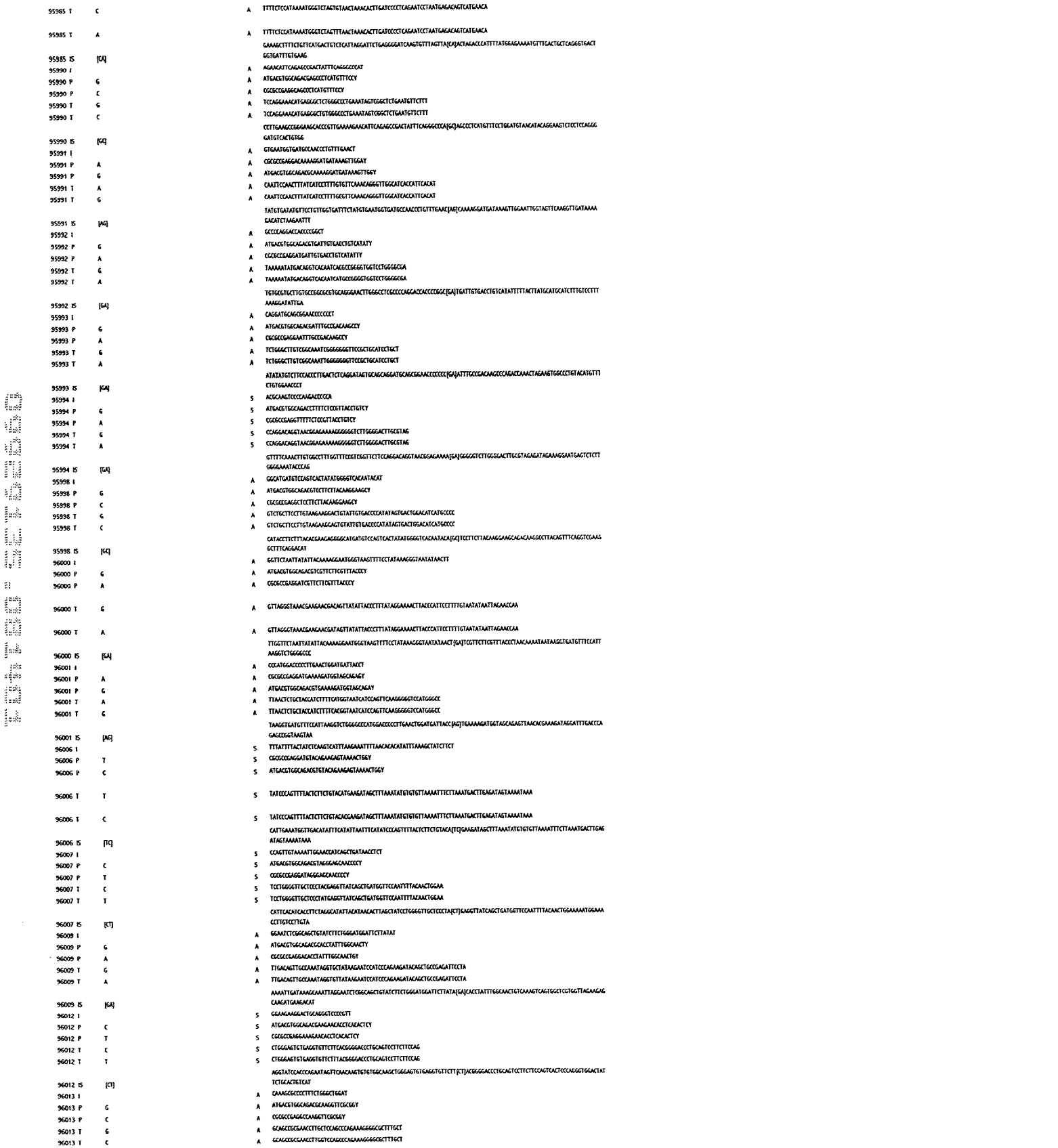

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95911 T G S CAGGCACAAGAACACTTTATCAAACGTTCTCTACCATATCACAAAGATTCAAAAGAAACCAAGAAAGGAGAA
AACTGCAAAGAGATGAACACATTATCAGTCGACAGCAGGCACAAGAACACTTTATCAAACTGTCTCTACCATATCACAAAGATTCAAAAGAAACCAAGAAAGGAGAA
95911 IS [TG] CTAGTTTGTCTTT
95913 I A GAACCTTTACATCTGGTATTTTCTTTCCTGCTGGCCCA
95913 P C A ATGACGTGGCAGACCGTTTTCATCCTCATCACCY
95913 P T A CGCGCCGAAGGTGTTTTCATCCTCATCACCY
95913 T C A CCTTGGTGATGAAGGATGAAAACGGGGCCAGCAGGAAAGAAAATACCAGATGTAAAGGTTCCA
95913 T T A CCTTGGTGATGAAGGATGAAAACAGGGCCAGCAGGAAAGAAAATACCAGATGTAAAGGTTCCA
TTGGGAATGAACAATGGTTCTGGAACCTTTACATCTGGTATTTTCTTTCCTGCTGGCCC[CT]GTTTTCATCCTCATCACCAAGGTCTTTTGAATCAATTCTTTGAAGAGA
95913 IS [CT] AGCCTCACTGGA
95914 I A AAGGTCTTGGCGCTGCCATCTTGCCT
95914 P G A ATGACGTGGCAGACGAGGGGCTGAAAGTTGY
95914 P A A CGCGCCGAGGAAGGGCCTGAAAGTTGAY
95914 T G A CTGGTCAACTTTCAGCCCCTCGGCAAGATGGCAGCGCCAAGACCTTCT
95914 T A A CTGGTCAACTTTCAGCCCCTTGGCAAGATGGCAGCGCCAAGACCTTCT
ATGAAGCCATACATCCCGTAGCAGATCTGCAAGAGAAGGTCTTGGCGCTGCCATCTTGCC[GA]AGGGGCTGAAAGTTGACCAGATGAGCCAAGAAATACTGGCGATGAG
95914 IS [GA] GAAGAGGGAGCCA
95915 I A GTAGCCTAGCTGTCATTTCCAGCCTAGAGCTCTT
95915 P G A ATGACGTGGCAGACGTGAGTCAGTCTCCCCY
95915 P A A CGCGCCGAGGATGAGTCAGTCTCCCCY
95915 T G A GTTTGGGGAGACTGACTCACAGAGCTCTAGGCTGGAAATGACAGCTAGGCTACAC
95915 T A A GTTTGGGGAGACTGACTCATAGAGCTCTAGGCTGGAAATGACAGCTAGGCTACAC
ACGCCTGGGACCCAGGTTAGGGGATGTGTAGCCTAGCTGTCATTTCCAGCCTAGAGCTCT[GA]TGAGTCAGTCTCCCCAAACATTTATCTCCCTCTAAGACCTGCTCTTTG
95915 IS [GA] GCATCAGAACGG
95916 I S GCACGATGGAATCTCTGTGAAAATACAATGCGGGTAGGA
95916 P G S ATGAGTGGCAGACCAAGAATTAGAGAAGGAGGAAATY
95916 P A S CGCGCCGAGGTAAGAATTAGAGAAGGAGGAAATGY
95916 T G S TACACATTCCTCCTTCTCTAATTCTTGCCTACCCGCATTGTATTTTCACAGAGATTCCATCGTGCCT
95916 T A S TACACATTCCTCCTTCTCTAATTCTTACCTACCCGCATTGTATTTTCACAGAGATTCCATCGTGCCT
ACCTGCTCTTTGGCATCAGAACGGATTACATGAATACACATTCCTCCTTCTCTAATTCTT[GA]CCTACCCGCATTGTATTTTCACAGAGATTCCATCGTGCCTGGCTCACA
95916 IS [GA] TAAGCGCTTCCT
95918 I S GGTGAGGAGAAAGCAGTGTCTGGGGTCAAGT
95918 P C S ATGACGTGGCAGACGACAAAACAGATGCAAATAAAAGY
95918 P T S CGCGCCGAGGAACAAAACAGATGCAAATAAAAGY
95918 T C S ATTCCTTTTATTTGCATCTGTTTTGTCCTGACCCCAGACACTGCTTTCTCCTCACCCA
95918 T T S ATTCCTTTTATTTGCATCTGTTTTGTCTTGACCCCAGACACTGCTTTCTCCTCACCCA
GGAGAGGAGTTCACTGAGGTAACTCCACTGTCCAAATCCCTTTTATTTGCATCTGTTTTGT[CT]CTTGACCCCAGACACTGCTTTCTCCTCACCCACCCTACACACAGTCAT
95918 IS [CT] GTTCTATTATTT
95919 I S TCTACATCTTTTTGCAATATTAGATGTTAACCAAATATTGAGAAATAAAATAATAGAACT
95919 P T S CGCGCCGAGGATGACTGTGTGTAGGGTY
95919 P G S ATGACGTGGCAGACCTGACTGTGTGTAGGGTY
95919 T T S ACCCACCCTACACACAGTCATGTTCTATTATTTTATTTCTCAATATTTGGTTAACATCTAATATTGCAAAAAAGATGTAGA
95919 T G S ACCCACCCTACACACAGTCAGGTTCTATTATTTTATTTCTCAATATTTGGTTAACATCTAATATTGCAAAAAAGATGTAGA
CATCTGTTTTGTCTTGACCCCAGACACTGCTTTCTCCTCACCCACCCTACACACAGTCA[TG]GTTCTATTATTTTATTTCTCAATATTTGGTTAACATCTAATATTGCAA
95919 IS [TG] AAAAGATGTAGA
95923 I S AGAACCCGAACGTGGTCGGTTGGAGT
95923 P G S ATGACGTGGCAGACCAAATATGTCCCTCCGGY
95923 P T S CGCGCCGAGGAAAATATGTCCCTCCGGAY
95923 T G S TGCCTCCGGAGGGACATATTTGCTCCAACCGACCACGTTCGGGGTTCTAG
95923 T T S TGCCTCCGGAGGGACATATTTCTCCAACCGACCACGTTCGGGGTTCTAG
TCCGGCCGAGACCTGGCCCTCACCTCAGGGTTCCAATGTGCCTCCGAGAGGACATATTT[GT]CTCCAACCGACCACGTTCGGGGTCTAGCCTCACGGGTTGCCTCTAACC
95923 IS [GT] CTAGCTTCCTA
95926 I A TGGGTGGGGGTTGGTGAGTGGGAAAT
95926 P C A ATGACGTGGCAGACCTAGGAGCCCAGACCY
95926 P A A CGCGCCGAGGATAGGAGCCCAGACCY
95926 T C A GGTGGGTCTGGGCTCCTAGTTTCCCACTCACCAACCCCCACCCAAG
95926 T A A GGTGGGTCTGGGCTCCTATTTTCCCACTCACCAACCCCCACCCAAG
CTGCTCCGTATTGTTCCCTTAGGGATTTTGAGGCTTGGGTGGGGGTTGGTGAGTGGGAAA[CA]TAGGAGCCCAGACCCACCTCCAAAGTTCAATGGGACTTTGAACCCCA
95926 IS [CA] GAAAGCTTGATTT
95927 I A CCTGGCTGTGATTGAGATGAATGGCAGGGGA
95927 P C A ATGACGTGGCAGACCCTGTGTTTATAAATGTAAGTAGACY
95927 P T A CGCGCCGAGGTCTGTGTTTATAAATGTAAGTAGACY
95927 T C A GTAGGTCTACTTACATTTATAAACACAGGCCCCTGCCATTCATCTCAATCACAGCCAGGAG
95927 T T A GTAGGTCTACTTACATTTATAAACACAGACCCCTGCCATTCATCTCAATCACAGCCAGGAG
AGAGACAGACAGACATGCTGAGATCTTGTTCTCCTGGCTGTGATTGAGATGAATGGCAGGGG[CT]CTGTGTTTATAAATGTAAGTAGACCTACATTCATGTCTTTCAGGTG
95927 IS [CT] GCTGCTTCTCTATT
95930 I A ACTGCGCCCAGCCAGGGCTA
95930 P C A ATGACGTGGCAGACCGTAAGTATTCAGCTATGCTATY
95930 P T A CGCGCCGAGGTGTAAGTATTCAGCTATGCTATAGY
95930 T C A CACCCTATAGCATAGCTGAATACTTACAGAGCCCTGGCTGGGCGCAGTGC
95930 T T A CACCCTATAGCATAGCTGAATACTTACAAGCCCTGGCTGGGCGCAGTGC
TCCTTCCTGCAGGCTGAGGATAGGACAAGGCCACACTGAGCACTGCGCCCAGCCAGGGCT[CT]GTAAGTATTCAGCTATGCTATAGGGTGCCAGGGAGCTTTAGACTCAG
95930 IS [CT] AAGATTAAGTCAG
95932 I S GAAAACTGGAACCTGCTTAAAATTAAGGTTAACCATGAATTTCAGAATGTTGGA
95932 P G S ATGACGTGGCAGACCGGTTTAGAAAGGCATGAY
95932 P A S CGCGCCGAGGTGGTTTAGAAAGGCATGATCY
95932 T G S TCCAGATCATGCCTTTCTAAACCGCCAACATTCTGAAATTCATGGTTAACCTTAATTTTAAGCAGGTTCCAGTTTTCTA
95932 T A S TCCAGATCATGCCTTTCTAAACCACCAACATTCTGAAATTCATGGTTAACCTTAATTTTAAGCAGGTTCCAGTTTTCTA
AATAAAAACAATTTTGGTCTAGAGAACAAAAAAGCTCTCCAGATCATGCCTTTCTAAACC[GA]CCAACATTCTGAAATTCATGGTTAACCTTAATTTTAAGCAGGTTCCA
95932 IS [GA] GTTTTCTATACAC
95933 I A GCAAAATTCAGCAATTTTGAATGGAAAATGCCACAGTATTTGAACACTT
95933 P G A ATGACGTGGCAGACGGGAATGTTTGATGCTGY
95933 P A A CGCGCCGAGGAGGAATGTTTTGATGCTGAY
95933 T G A AAAATCAGCATCAAAACATTCCCAGTGTTCAAATACTGTGGCATTTTCCATTGAAAATTGCTGAATTTTGCTT
95933 T A A AAAATCAGCATCAAAACATTCCTAGTGTTCAAATACTGTGGCATTTTCCATTGAAAATTGCTGAATTTTGCTT
TTTATAAAATAAGCAAAATTCAGCAATTTTCAATGGAAAATGCCACAGTATTTGAACACT[GA]GGAATGTTTTGATGCTGATTTTTATCAAAGTGGTACTGCAAGCCAT
95933 IS [GA] TAAGTTGGAACAAA
95934 I S CCCTCAGATAACACACAGAGGAATGCCGTAGGTT

FIGURE 129C




95958 P C A ATGACGTGGCAGACCGGCCGCTACCGY
95958 P T A CGCGCCGAGGTGGCCGCTACCGY
95958 T C A CATGCGGTAGCGGCGATTCGGATGTCTGGGCGTGAGATCTTCATCCCAG
95958 T T A CATGCGGTAGCGGCCAATTCGGATGTCTGGGCGTGAGATCTTCATCCCAG
95958 IS [CT] CGTCCCCATCCTCAGGATCTCCCTGACTGGGATGAAGATCTCACGCCCAGACATCCGAAT[CT]GGCCGCTACCGCATGATCAAGCACGACCGCGACAAGCATAACGAACCT AACCCTCAGAGG
95959 I A CAGGAGAGGGGGCTATCGTGGGGGA
95959 P C A ATGACGTGGCAGACCGTAGCGCCCTGTY
95959 P T A CGCGCCGAGGTGTAGCGCCCTGTCY
95959 T C A ACCGACACAGGGCGCTACGCCCCCACCATAGCCCCCTCTCCTGAG
95959 T T A ACCGACACAGGGCGCTACACCCCCACCATAGCCCCCTCTCCTGAG
95959 IS [CT] TGTCCGGGTGCAGTGGCTGGACCTCGAAGCCGTCTCAGGAGAGGGGGCTATGGTGGGGG[CT]GTAGCGCCTGTCCGGTGCTCCAGGAGGGCAGGGCCCCAGTCTCTGC TTGGCTTTGTGGC SLC6A9
95960 I A GCGAGTTGGCACGGCCCTCAGAT
95960 P G A ATGACGTGGCAGACGGCCGTTGTGTGTTTY
95960 P A A CGCGCCGAGGAGCCGTTGTGTGTTTGY
95960 T G A TACACAAACACACAACGGCCTCTGAGGGCCGTGCCAACTGCCCC
95960 T A A TACACAAACACACAAACGGCTTCTGAGGGCCGTGCCAACTGCCCC
95960 IS [GA] CAGGGCTCTACAGAGGTCAGCCATGTTTGTACAGATGGGCGAGTTGGCAGGCCCTCAGA[GA]GCCGTTGTGTGTTTGTGTATGTGTGAGCGAGTGCCCCGCCCAGGCCT CACCTTTGAACAT
95962 I A GGCCTTTAAAAAGAAACAGCATGTAGTTTTTATTTAATATGTTCCATAGAGA
95962 P T A CGCGCCCAGGTGGATAGGCAGACAGGY
95962 P C A ATGACGTGGCAGACCGGATAGGCAGACAGGY
95962 T T A AGTACCTGTCTGCCTATCCACTCTATGGAACATATTAAAATAAAAAACTACATGCTGTTTCTTTTTAAAGGCCTA
95962 T C A AGTACCTGTCTGCCTATCCGCTCTATGGAACATATTAAAATAAAAAACTACATGCTGTTTCTTTTTAAAGGCCTA
95962 IS [TC] AAATGTAGGCCTTTAAAAAGAAACAGCATGTAGTTTTTATTTAATATGTTCCATAGAG[TC]GGATAGGCAGACAGGTACTATTGTAATGTATTCTGTATTTAATAAT TTAATATACTCTAG
95965 I S GCTCCAGCCGCCTCCAGGACTCCA
95965 P G S ATGACGTGGCAGACCGGATATGAGCACAGCY
95965 P A S CGCGCCGAGGTGGATATGAGCACAGCTY
95965 T G S TGGCAGCTGTGCTCATATCCGGGAGTCCTGGAGGCGGCTGGAGCCA
95965 T A S TGGCAGCTGTGCTCATATCCAGGAGTCCTGGAGGCGGCTGGAGCCA
95965 IS [GA] TCTGCGGTGGGAGCACGGGGTGGGGGTGGGGCCACTCCCTGGCAGCTGTGCTCATATCC[GA]GGAGTCCTGGAGGCGGCTGGAGCCATTACTGCCCACAATGGGGATCT GCGCCTTGTCCGG
95966 I S GGAGGGCTGCCAGATCAAAAAGTGCAGCT
95966 P C S ATGACGTGGCAGACGATGCGCAGATGCGY
95966 P T S CGCGCCGAGGAATGCGCAGATGCGY
95966 T C S ACCACGCATCTGCGCATCGCTGCACTTTTTTGATCTGGCAGCCCTCCAG
95966 T T S ACCACGCATCTGCGCATTGCTGCACTTTTTTGATCTGGCAGCCCTCCAG
95966 IS [CT] AAAAAAAAAAAAAAAAAAAGCAGGGCATTGTTTTAAAATGTCACCACGCATCTGCGCAT[CT]GCTGCACTTTTTTGATCTGGCAGCCCTCCAGAGAGGCGCTGGTGTT GGCGCCGGGGCCG
95968 I S ACCAGTTTAAACCTGAAATAGATGAGGGCTCAAGGATATGTCAACT
95968 P C S ATGACGTGGCAGACGGAAGATAAGGGCAGAACY
95968 P T S CGCGCCGAGGAGAAGATAAGGGCAGAACAY
95968 T C S TTTGTGTTCTGCCCTTATCTTCCGTTGACATATCCTTTGAGCCCTCATCTATTTCAGGTTTAAACTGGTAA
95968 T T S TTTGTGTTCTGCCCTTATCTTCTGTTGACATATCCTTTGAGCCCTCATCTATTTCAGGTTTAAACTGGTAA
95968 IS [CT] ATAAAGAATGTAGAGGATATATACCTACAAAAAAGAATGCTTTGTGTTCTGCCCTTATCTTC[CT]GTTGACATATCCTTTGAGCCCTCATCTATTTCAGGTTTAAACTGGTA AACTTTAACAAGC
95970 I A CAGTGATTCAGCAGAAGTATTAAGATGGTAATTAGTACCTGCAGGCTAAATAAT
95970 P A A CGCGCCGAGGATGCTGAAGTAGAAACCTATGY
95970 P G A ATGACGTGGCAGACGTGCTGAAGTAGAAACCTATY
95970 T A A TGACCATAGGTTTCTACTTCAGCATTTATTTAGCCTGCAGGTACTAATTACCATCTTAATACTTCTGCTGAATCACTGTT
95970 T G A TGACCATAGGTTTCTACTTCAGCACTTATTTAGCCTGCAGGTACTAATTACCATCTTAATACTTCTGCTGAATCACTGTT
95970 IS [AG] GTTCTAACAGTGATTCAGCAGAAGTATTAAGATGGTAATTAGTACCTGCAGGCTAAATAA[AG]TGCTGAAGTAGAAACCTATGGTCAGATGTTGGTATAAAAGATAGG GAAAGTCAAGAATGC
95975 I S GTTTTTGGCCTTCTCCACTAAAAGCCTTGAACCTCAATCTAGT
95975 P C S ATGACGTGGCAGACGTTTTATGTATTCTTGATCCTGATGY
95975 P T S CGCGCCGAGGATTTTATGTATTCTTGATCCTGATGY
95975 T C S GGACCATCAGGATCAAGAATACATAAAACCTAGATTGAGGTTCAAGGCTTTTAGTGGAGAAGGGCAAAAACTT
95975 T T S GGACCATCAGGATCAAGAATACATAAAATCTAGATTGAGGTTCAAGGCTTTTAGTGGAGAAGGGCAAAAACTT
95975 IS [CT] GTTCATGGTGGCCAAGTGAATTGGGATATGGAGGACATCAGGATCAAGAATACATAAAA[CT]CTAGATTGAGGTTCAAGGCTTTTAGTGGAGAAGGGCAAAAACTTG GAAGGCTTACACCTG
95976 I S TGTTGTTGGCACTGAATCATCAATAAGAACAACCGA
95976 P G S ATGACGTGGCAGACCGTTAAGTATTGATTTATCCTCCY
95976 P A S CGCGCCGAGGTGTTAAGTATTGATTTATCCTCCTY
95976 T G S GAAGAGGAGGATAAATCAATACTTAACCGCGGTTGTTCTTATTGATGATTCAGTGCCAACAACAAA
95976 T A S GAAGAGGAGGATAAATCAATACTTAACAGCGGTTGTTCTTATTGATGATTCAGTGCCAACAACAAA
95976 IS [GA] ACACCTGAAATAGTCAGTACACCTTCCTCTCCAGAAGAGGAGGATAAATCAATACTTAAC[GA]CGGTTGTTCTTATTGATGATTCAGTGCCAACAACAAAATTCAAATC AGGTTAGCAGATG
95980 I A CCTTCTGTCTCTTAGTTAATGTATTCCAAATGACATGATGTTGGGAGAAGTCT
95980 P G A ATGACGTGGCAGACGTAATCTGGCTTCATAAACTACY
95980 P A A CGCGCCGAGGATAATCTGGCTTCATAAACTACCY
95980 T G A TTTGGGTAGTTTATGAAGCCAGATTACGACTTCTCCCAACATCATGTCATTTGGAATACATTAACTAAGACACAGAAGGAG
95980 T A A TTTGGGTAGTTTATGAAGCCAGATTATGACTTCTCCCAACATCATGTCATTTGGAATACATTAACTAAGACACAGAAGGAG
95980 IS [GA] TGTGTTCTCCTTCTGTCTCTTAGTTAATGTATTCCAAATGACATGATGTTGGGAGAAGTC[GA]TAATCTGGCTTCATAAACTACCCAAATGAAAGACAAAATTCCAAAG GTTTGAGCAGGCCA
95982 I S GGACATGGGAGATGAACGTATAAAAAGATGGAAAATTCACTGTT
95982 P C S ATGACGTGGCAGACGCAAGTGAACTTCATCTGTY
95982 P T S CGCGCCGAGGACAAGTGAACTTCATCTGTGY
95982 T C S AGCTCACAGATGAAGTTCACTTGCACAGTGAATTTTCCATCTTTTTATACGTTCATCTCCCCATGTCCCT
95982 T T S AGCTCACAGATGAAGTTCACTTGTACAGTGAATTTTCCATCTTTTTATACGTTCATCTCCCCATGTCCCT
95982 IS [CT] TGCTTGAACTATATTCATTATATAGACAGCTTTATGAAGCTCACAGATGAAGTTCACTTG[CT]ACAGTGAATTTTCCATCTTTTTATACGTTCATCTCCCCATGTCCCTTG GGAAAAAGAGAT
95985 I A TTCATGACTGTCTCTCATTAGGATTCTGAGGGGATCAAGTGTTTAGTTAT
95985 P C A ATGACGTGGCAGACCACTAGACCCATTTTATGGAGY
95985 P A A CGCGCCGAGGAACTAGACCCATTTTATGGAGY



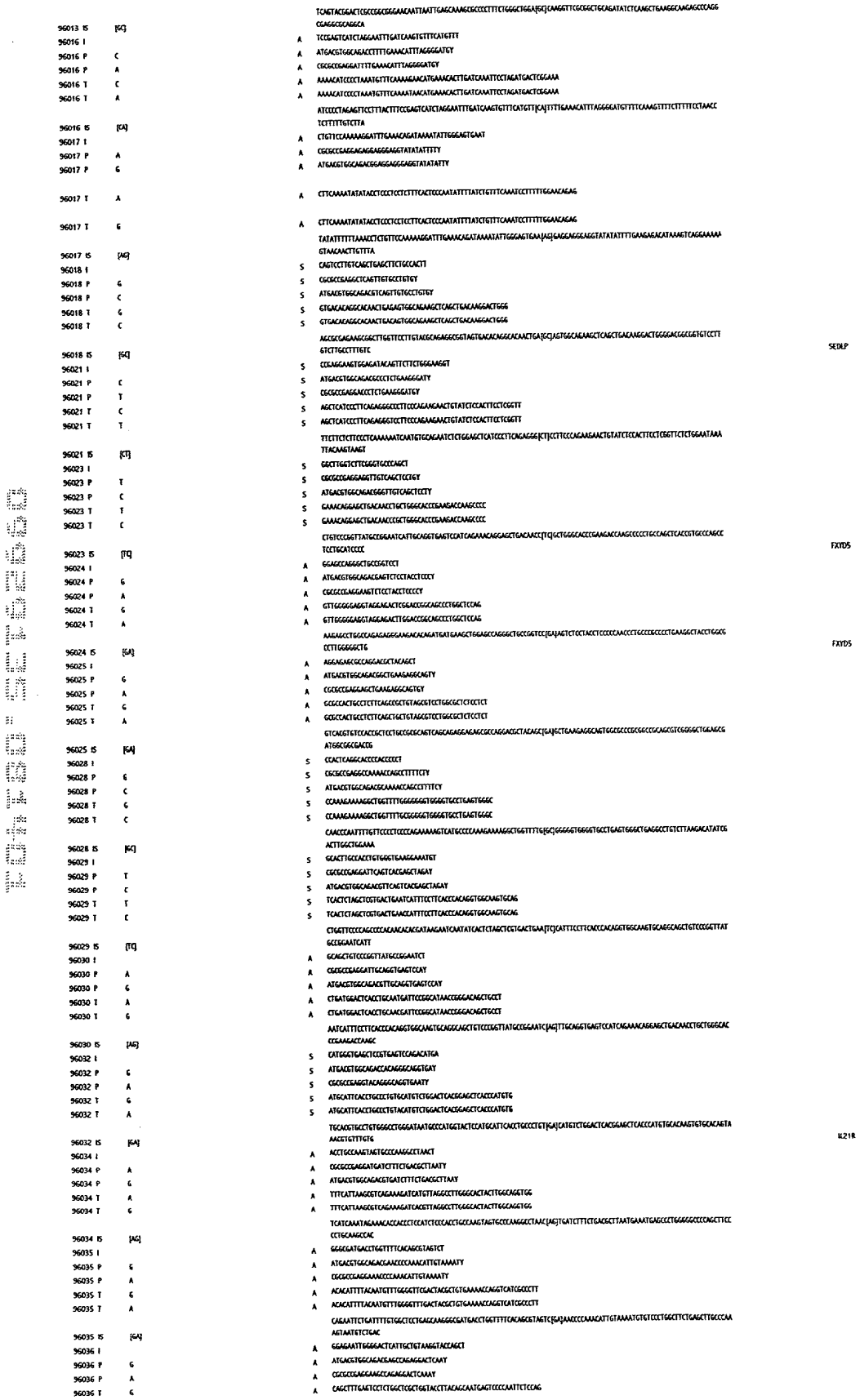

96013 IS [GC]
96016 I
96016 P C
96016 P A
96016 T C
96016 T A
96016 IS [CA]
96017 I
96017 P A
96017 P G
96017 T A
96017 T G
96017 IS [AG]
96018 I
96018 P G
96018 P C
96018 T G
96018 T C
96018 IS [GC]
96021 I
96021 P C
96021 P T
96021 T C
96021 T T
96021 IS [CT]
96023 I
96023 P T
96023 P C
96023 T T
96023 T C
96023 IS [TC]
96024 I
96024 P G
96024 P A
96024 T G
96024 T A
96024 IS [GA]
96025 I
96025 P G
96025 P A
96025 T G
96025 T A
96025 IS [GA]
96028 I
96028 P G
96028 P C
96028 T G
96028 T C
96028 IS [GC]
96029 I
96029 P T
96029 P C
96029 T T
96029 T C
96029 IS [TC]
96030 I
96030 P A
96030 P G
96030 T A
96030 T G
96030 IS [AG]
96032 I
96032 P G
96032 P A
96032 T G
96032 T A
96032 IS [GA]
96034 I
96034 P A
96034 P G
96034 T A
96034 T G
96034 IS [AC]
96035 I
96035 P G
96035 P A
96035 T G
96035 T A
96035 IS [GA]
96036 I
96036 P G
96036 P A
96036 T G
SEDLP
FXYD5
FXYD5
H21R

FIGURE 129C

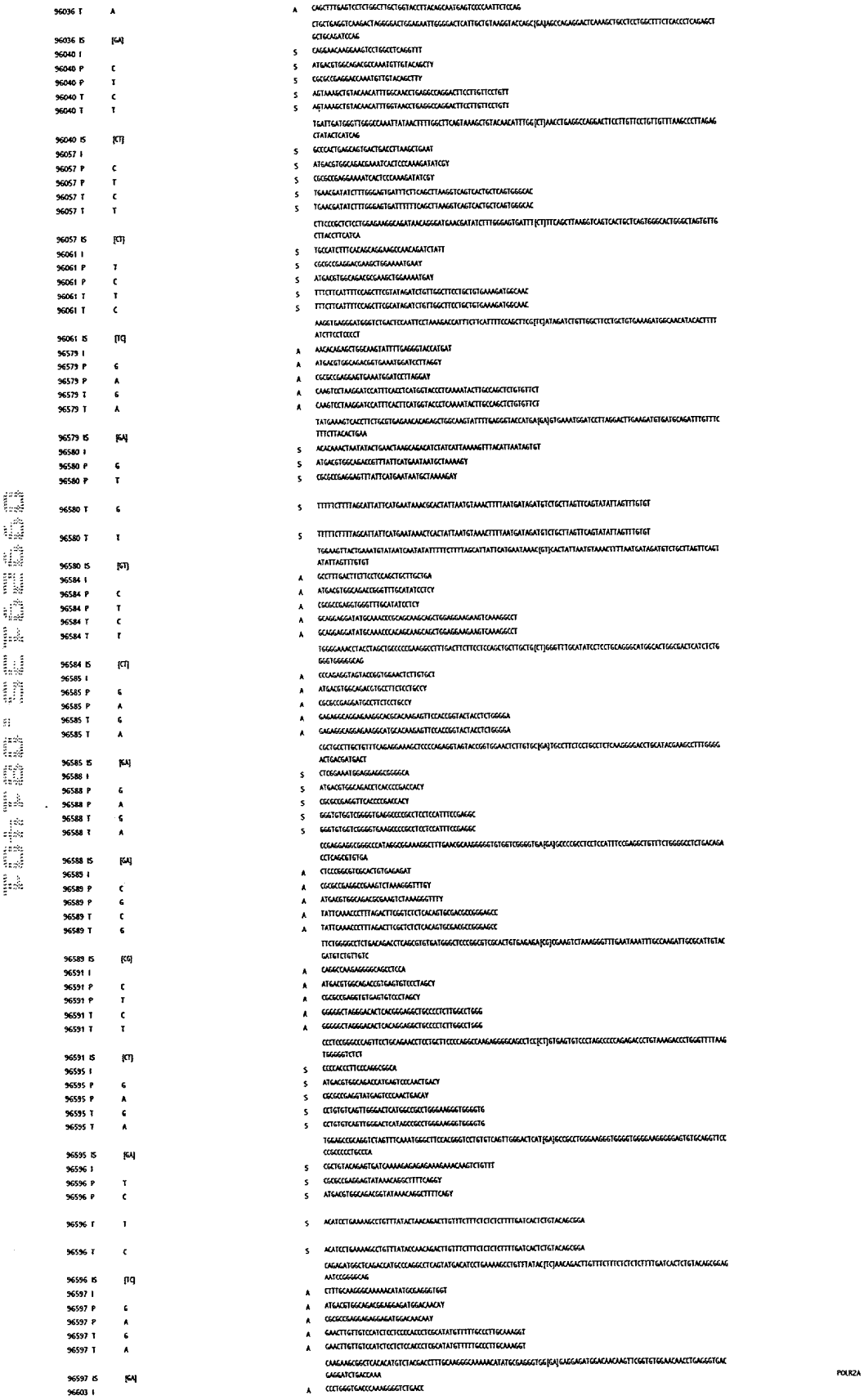
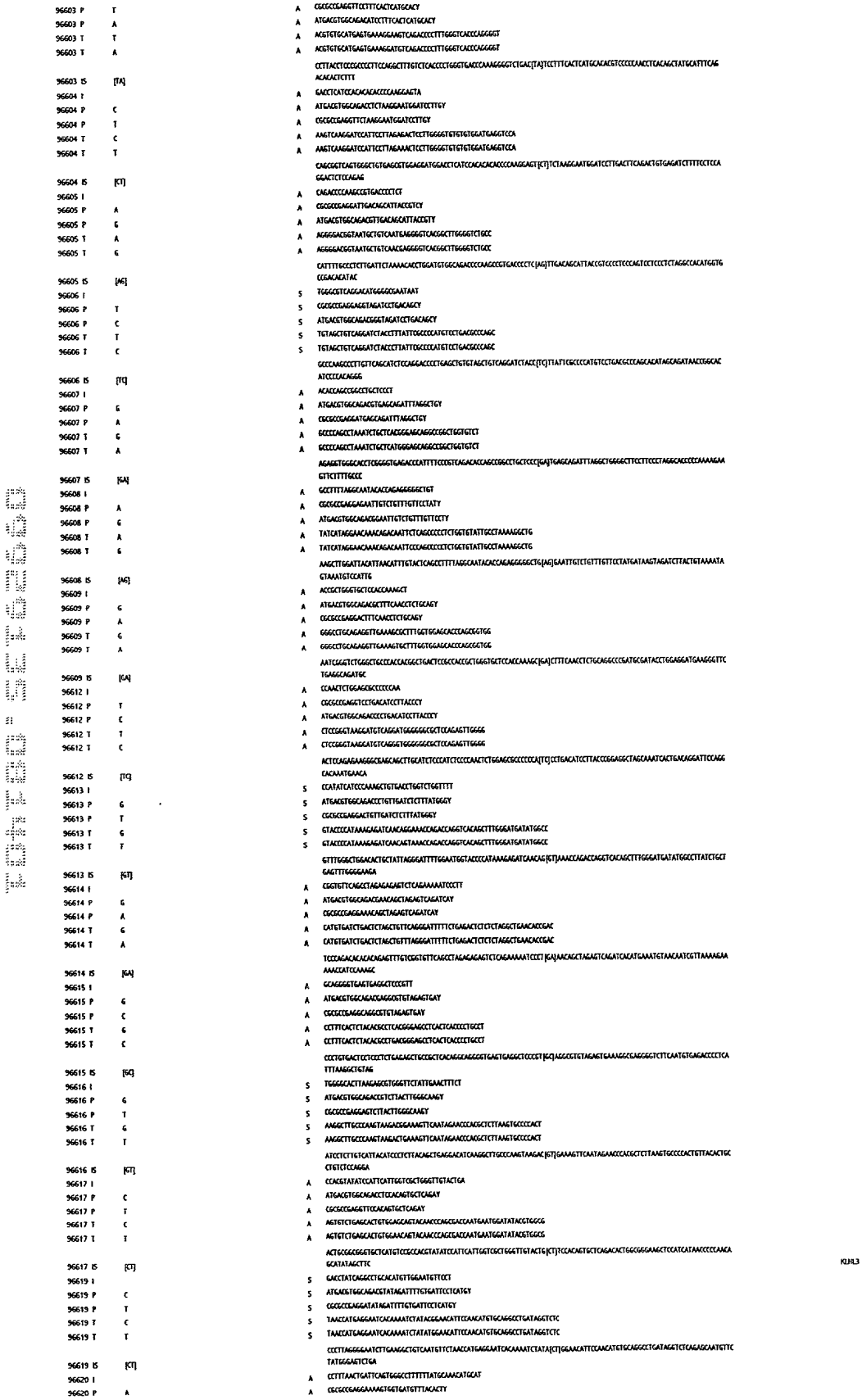
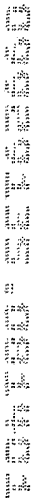
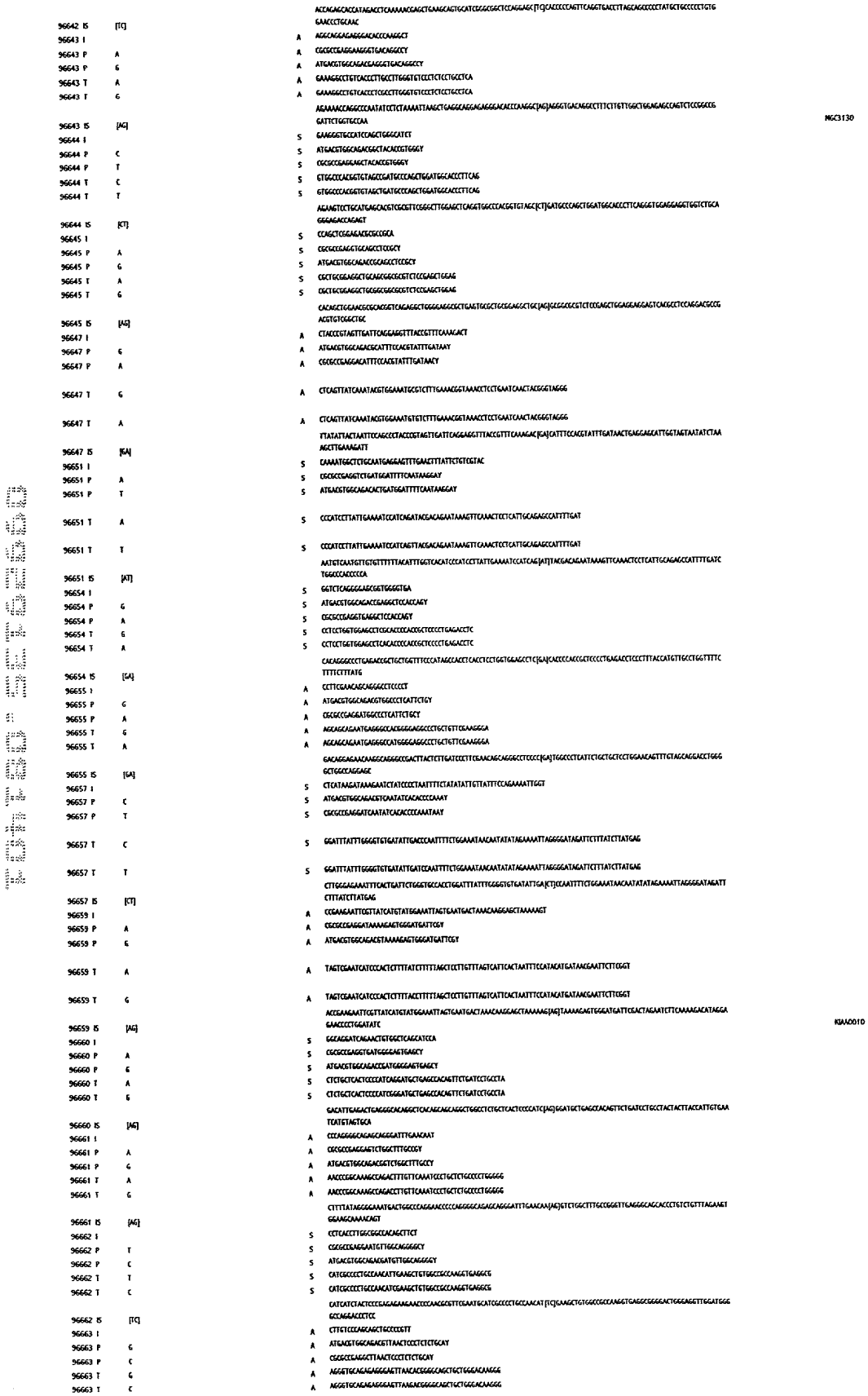
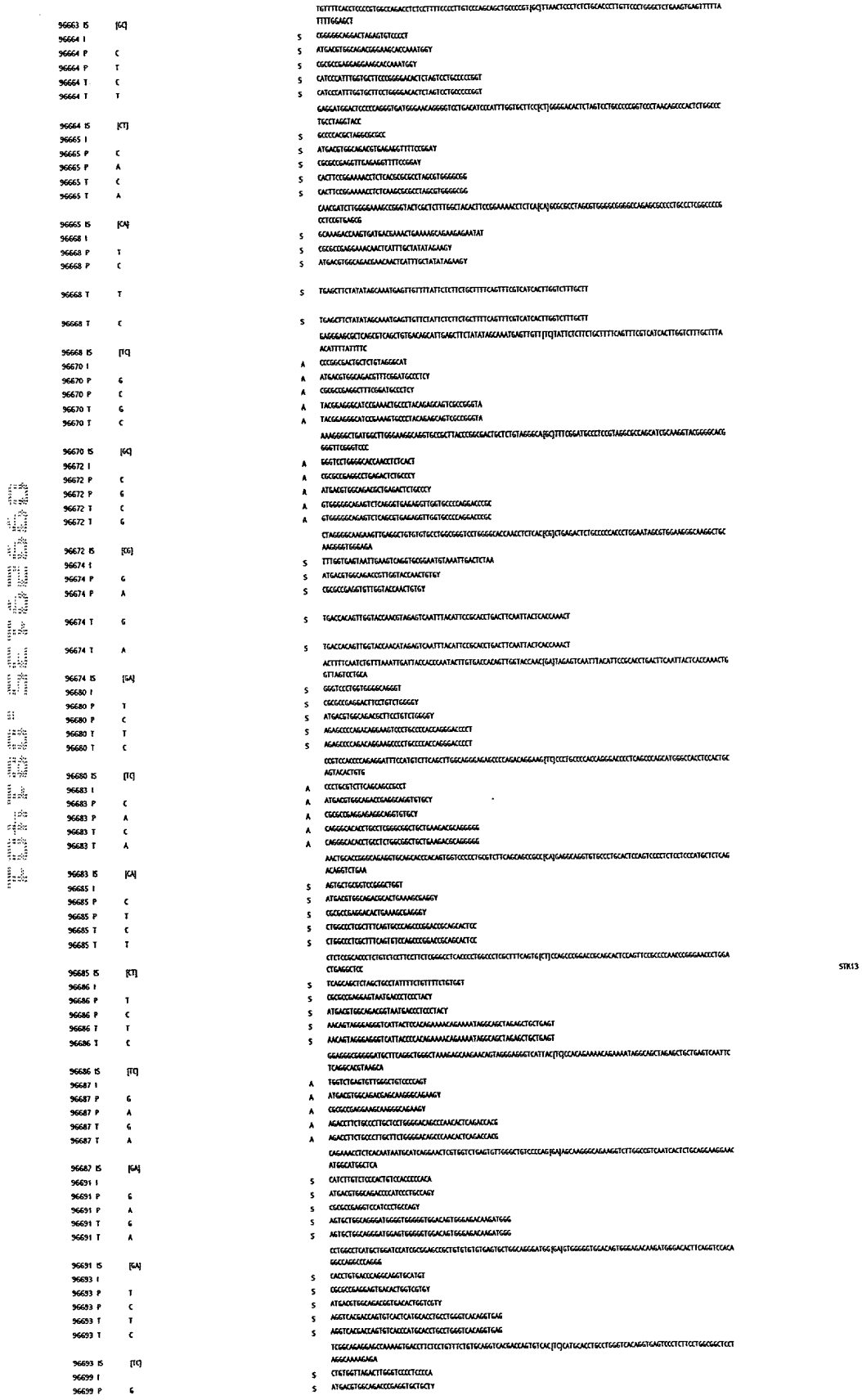


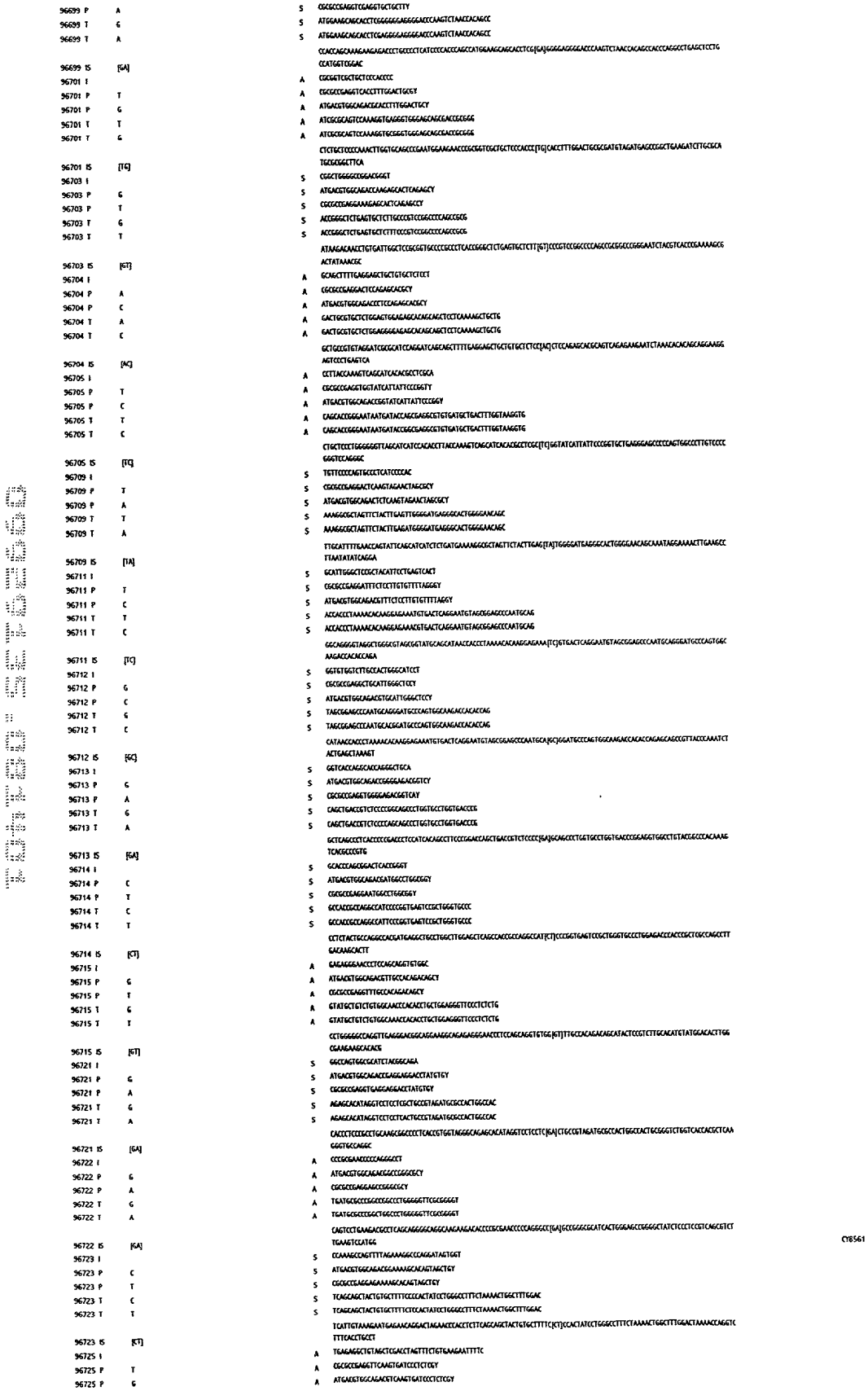
FIGURE 129C


96603 P T
A CGCGCCGAGGTTCCTTTCACTCATGCACY
96603 P A
A ATGACGTGGCAGACATCCTTTCACTCATGCACY
96603 T T
A ACGTGTGCATGAGTGAAAGGAAGTCAGACCCCTTTGGGTCACCCAGGGGT
96603 T A
A ACGTGTGCATGAGTGAAAGGATGTCAGACCCCTTTGGGTCACCCAGGGGT
CCTTACCTCCCGCCCCTTCCAGGCTTGTCTCACCCCTGGGTGACCCAAAGGGGTCTGAC[TA]TCTTTCACTCATGCACACGTCCCCCAACCTCACAGCTATGCATTTCAG
ACACACTCTTT
96603 IS [TA]
96604 I
A GACCTCATCCACACACACCCAAGCAGTA
96604 P C
A ATGACGTGGCAGACCTCTAAGGAATGGATCCTTGY
96604 P T
A CGCGCCGAGGTTCTAAGCAATGGATCCTTGY
96604 T C
A AAGTCAAGGATCCATTCCTTAGAAACTCCTTGGGGTGTGTGTGGATGAGGTCCA
96604 T T
A AAGTCAAGGATCCATTCCTTAGAAACTCCTTGGGGTGTGTGTGGATGAGGTCCA
CAGCGGTCAGTGGGCTGTGAGCGTGGAGGATGGACCTCATCCACACACACCCCAAGGAGT[CT]TCTAAGGAATGGATCCTTGACTTCAGACTGTGAGATCTTTTCCTCCA
GGACTCTCCACAG
96604 IS [CT]
96605 I
A CAGACCCCAAGCCGTGACCCCTCT
96605 P A
A CGCGCCGAGGATTGACAGCATTACCGTCY
96605 P G
A ATGACGTGGCAGACGTTGACAGCATTACCGTY
96605 T A
A AGGGGACGGTAATGCTGTCAATGAGGGGTCACGGCTTGGGGTCTGCC
96605 T G
A AGGGGACGGTAATGCTGTCAACGAGGGGTCACGGCTTGGGGTCTGCC
CATTTTGCCCTCTTGATTCTAAAACACCTGGATGTGGCAGACCCCAAGCCGTGACCCCTC[AG]TTGACAGCATTACCGTCCCCTCCCAGTCCTCCCTCTAGGCCACATGGTG
CCGACACATAC
96605 IS [AG]
96606 I
S TGGGCGTCAGGACATGGGGCGAATAAT
96606 P T
S CGCGCCGAGGAGGTAGATCCTGACAGCY
96606 P C
S ATGACGTGGCAGACGGGTAGATCCTGACAGCY
96606 T T
S TGTAGCTGTCAGGATCTACCTTATTGGCCCCATGTCCTGACGCCCAGC
96606 T C
S TGTAGCTGTCAGGATCTACCCTTATTGGCCCCATGTCCTGACGCCCAGC
GCCCAAGCCCTTGTTCAGCATCTCCAGGACACCCTGAGCTGTGTAGCTGTCAGGATCTACC[TC]TTATTCGCCCCATGTCCTGACGCCCAGCACATAGCAGATAACCGGCAC
ATCCCCACAGGG
96606 IS [TC]
96607 I
A ACACCAGCCGGCCTGCTCCCCT
96607 P G
A ATGACGTGGCAGACGTGAGCAGATTTAGGCTGY
96607 P A
A CGCGCCGAGGATGACCAGATTTAGGCTGY
96607 T G
A GCCCCAGCCTAAATCTGCTCACGGGAGCAGCAGGCCGGCTGGTGTCT
96607 T A
A GCCCCAGCCTAAATCTGCTCATGGGAGCAGCCGGCTGGTGTCT
AGAGGTGGGCACCTCGGGGTGAGACCCATTTTCCCGTCAGACACCAGCCGGCCTGCTCCC[GA]TGAGCAGATTTAGGCTGGGGCTTCCTTCCCTAGGCACCCCCAAAAGAA
GTTCTTTTGCCC
96607 IS [GA]
96608 I
A GCCTTTTAGGCAATACACAGAGGGGGCTGT
96608 P A
A CGCGCCGAGGAGAATTGTCTGTTTGTTCCTATY
96608 P G
A ATGACGTGGCAGACGGAATTGTCTGTTTGTTCCTY
96608 T A
A TATCATAGGAACAAACAGACAATTCTCAGCCCCCTCTGGTGTATTGCCTAAAAGGCTG
96608 T G
A TATCATAGGAACAAACAGACAATTCCCAGCCCCCTCTGGTGTATTGCCTAAAAGGCTG
AAGCTTGGATTACATTAACATTTGTACTCAGCCTTTTAGGCAATACACCAGAGGGGGCTG[AG]GAATTGTCTGTTTGTTCCTATGATAAGTAGATCTTACTGTAAAATA
GTAAATGTCCATTG
96608 IS [AG]
96609 I
A ACCGCTGGGTGCTCCACCAAAGCT
96609 P G
A ATGACGTGGCAGACGCTTTCAACCTCTGCAGY
96609 P A
A CGCGCCGAGGACTTTCAACCTCTGCAGY
96609 T G
A GGGCCTGCAGAGGTTGAAAGCGCTTTGGTGGAGCACCCAGCGGTGG
96609 T A
A GGGCCTGCAGAGGTTGAAAGTGCTTTGGTGGAGCACCCAGCGGTGG
AATCGGGTCTGGGCTGCCCACCACGGCTGACTCCGCCACCGCTGGGTGCTCCACCAAAGC[GA]CTTTCAACCTCTGCAGGCCCGATGCGATACCTGGAGGATGAAGGGTTC
TGAGGCAGATGC
96609 IS [GA]
96612 I
A CCAACTCTGGAGCGCCCCCCAA
96612 P T
A CGCGCCGAGGTCCTGACATCCTTACCCY
96612 P C
A ATGACGTGGCAGACCCCTGACATCCTTACCCY
96612 T T
A CTCCGGGTAAGGATGTCAGGATGGGGGGCGCTCCAGAGTTGGGG
96612 T C
A CTCCGGGTAAGGATGTCAGGGTGGGGGGCGCTCCAGAGTTGGGG
ACTCCAGAGAAGGGCGAGCAGCTTGCATCTCCCATCTCCCCAACTCTGGAGCGCCCCCCA[TC]CCTGACATCCTTACCGGAGGCTAGCAAATCACTGACAGGATTCCAGG
CACAAATGAACA
96612 IS [TC]
96613 I
S CCATATCATCCCAAAGCTGTGACCTGGTCTGGTTTT
96613 P G
S ATGACGTGGCAGACCCTGTTGATCTCTTTATGGGY
96613 P T
S CGCGCCGAGGACTGTTGATCTCTTTATGGGY
96613 T G
S GTACCCCATAAAGAGATCAACAGGAAACCAGACCAGGTCACAGCTTTGGGATGATATGGCC
96613 T T
S GTACCCCATAAAGAGATCAACAGTAAACCAGACCAGGTCACAGCTTTGGGATGATATGGCC
GTTTGGGCTGGCAACTGCTATTAGGGATTTTGGAATGGTACCCCATAAAGAGATCAACAG[GT]AAACCAGACAGGTCACAGCTTTGGGATGATATGGCCTTATCTGCT
GAGTTTGGGGAAGA
96613 IS [GT]
96614 I
A CGGTGTTCAGCCTAGAGAGAGTCTCAGAAAAATCCCTT
96614 P G
A ATGACGTGGCAGACGAAACAGCTAGAGTCAGATCAY
96614 P A
A CGCGCCGAGGAAACAGCTAGAGTCAGATCAY
96614 T G
A CATGTGATCTGACTCTAGCTGTTCAGGGATTTTTCTGAGACTCTCTCTAGGCTGAACACCGAC
96614 T A
A CATGTGATCTGACTCTAGCTGTTTAGGGATTTTTCTGAGACTCTCTCTAGGCTGAACACCGAC
TCCCAGACACACAACAGAGTTTGTCGGTGTTCAGCCTAGAGAGAGTCTCAGAAAAATCCCT[GA]AACAGCTAGAGTCAGATCACATGAAATGTAACAATCGTTAAAAGAA
AAACCATCCAAAGC
96614 IS [GA]
96615 I
A GCAGGGGTGAGTGAGGCTCCCGTT
96615 P G
A ATGACGTGGCAGACGAGGGGTGTAGAGTGAY
96615 P C
A CGCGCCGAGGCAGGCGTGTAGAGTGAY
96615 T G
A CCTTTCACTCTACACGCCTCACGGGAGCCTCACTCACCCCTGCCT
96615 T C
A CCTTTCACTCTACACGCCTGACGGGAGCCTCACTCACCCCTGCCT
CCCTGTGACTCCTCCCTCTGAGAGCTGCCGCTCACAGGCAGGGGTGAGTGAGGCTCCCCT[GC]AGGCGTGTAGAGTGAAAGCCGAGCGGCTCTTCAATGTGAGACCCCTCA
TTTAAGGCTGTAG
96615 IS [GC]
96616 I
S TGGGGCACTTAAGAGCGTGGGTTCTATTGAACTTTCT
96616 P G
S ATGACGTGGCAGACCCTCTTACTTGGGCAAGY
96616 P T
S CGCGCCGAGGAGTCTTACTTGGGCAAGY
96616 T G
S AAGGCTTGCCCAAGTAAGACGGAAAGTTCAATAGAACCCAGGCTCTTAAGTGCCCCACT
96616 T T
S AAGGCTTGCCCAAGTAAGACTGAAAGTTCAATAGAACCCAGGCTCTTAAGTGCCCCACT
ATCCTCCTTGTCATTACATCCCTCTTACAGCTGAGGACATCAAGGCTTGCCCAAGTAAGAC[GT]GAAAGTTCAATAGAACCCAGGCTCTTAAGTGCCCCACTGTTACACTGC
CTGTCTCCAGGA
96616 IS [GT]
96617 I
A CCACGTATATCCATTCATTGGTCGCTGGGTTGTACTGA
96617 P C
A ATGACGTGGCAGACCTCCACAGTGCTCAGAY
96617 P T
A CGCGCCGAGGTTCCACAGTGCTCAGAY
96617 T C
A AGTGTCTGAGCACTGTGCAGCAGTACAACCCAGCCACCAATGAATGGATATACGTGGCG
96617 T T
A AGTGTCTGAGCACTGTGGAACAGTACAACCCAGCGACCAATGAATGGATATACGTGGCG
ACTGCGGCGGGTGCTCATGTCCGCCAGGTATATCCATTCATTGGTCGCTGGGTTGTACTG[CT]TCCACAGTGCTCAGACACTGGCGGGGAAGCTCCATCATAACCCCCAACA
GCATATAGCTTC
96617 IS [CT]
96619 I
S GACCTATCAGGCCTGCACATGTTGGAATGTTCCT
96619 P C
S ATGACGTGGCAGACGTATAGATTTTGTGATTCCTCATGY
96619 P T
S CGCGCCGAGGATATAGATTTTGTGATTCCTCATGY
96619 T C
S TAACCATGAGGAATCACAAAATCTATACGGAACATTTCCAACATGTGCAGGCCTGATAGGTCTC
96619 T T
S TAACCATGAGGAATCACAAAATCTATATGGAACATTTCCAACATGTGCAGGCCTGATAGGTCTC
CCCTTAGGGGAATCTTGAAGGCTGTCAATGTTCTAACCATGAGGAATCACAAAATCTATA[CT]GGAACATTCCAACATGTGCAGGCCTGATAGGTCTCAGAGCAATGTTC
TATGGGAGTCTGA
96619 IS [CT]
96620 I
A CCTTTAACTGATTCAGTGGGCCTTTTTTATGCAAACATGCAT
96620 P A
A CGCGCCGAGGAAAAGTGGTGATGTTTACACTY




ACCAGAGCACCATAGACCTCAAAAACGAGCTGAAGCAGTGCATCGGGCGGCTCCAGGAGC[TC]CACCCCCAGTTCAGGTGACCTTAGCAGCCCCCTATGCTGCCCCCTGTG
96642 IS [TC] GAACCCTGCAAC
96643 I A AGGCAGGAGAGGGACACCCAAGGCT
96643 P A A CGGCGCGAGGAAGGGTGACAGGCCY
96643 P G A ATGACGTGGCAGACCAGGGTGACAGGCCY
96643 T A A GAAAGGCCTGTCACCCTTGCCTTGGGTGTCCCTCCTGCCTCA
96643 T G A GAAAGGCCTGTCACCCTCGGCCTTGGGTGTCCCTCCTGCCTCA
AGAAAACCAGGCCCAATATCCTCTAAAATTAAGCTGAGGCAGGAGAGGGACACCCAAGGC[AG]AGGGTGACAGGCCTTTCTTGTTGGCTGGAGAGCCAGTCTCCGGCCG
96643 IS [AC] GATTCTGGTGCCAA MGC3130
96644 I S GAAGGGTGCCATCCAGCTGGGCATCT
96644 P C S ATGACGTGGCAGACGGCTACACCGTGGGY
96644 P T S CGCGCCGAGGAGCTACACCGTGGGY
96644 T C S GTGGCCCACGGTGTAGCCGATGCCCAGCTGGATGGCACCCTTCAG
96644 T T S GTGGCCCACGGTGTAGCTGATGCCCAGCTGGATGGCACCCTTCAG
AGAAGTCCTGCATGAGCAGCTCGCGTCCGGCTTGGAGCTCAGGTGGCCCACGGTGTAGC[CT]GATGCCCAGCTGGATGGCACCCTCAGGGTGGAGGAGGTGGTCTGCA
96644 IS [CT] GGGAGACCAGAGT
96645 I S CCAGCTCGGAGACGCGCCGCA
96645 P A S CGCGCCGAGGTGCAGCCTCCGCY
96645 P G S ATGACGTGGCAGACCGCAGCCTCCGCY
96645 T A S CGCTGCGGAGGCTGCAGCGGCGCGTCTCCGAGCTGGAG
96645 T G S CGCTGCGGAGGCTGCGGCGCGCGCGTCTCCGAGCTGGAG
CACAGCTGGAACGCGCAGCGCTCAGAGGCTGGGGAGGCGCTGAGTGCGCTGCGGAGGCTGC[AG]GCGGCGCGTCTCCGAGCTGGAGGAGGAGTCACGCCTCCAGGACGCCG
96645 IS [AG] ACGTGTCGGCTGC
96647 I A A CTACCGTAGTTGATTCAGGAGGTTTACCGTTTCAAAGACT
96647 P G A ATGACGTGGCAGACGCATTTCCACGTATTTGATAAY
96647 P A A CGCGCCGAGGACATTTCCACGTATTTGATAACY
96647 T G A CTCAGTTATCAAATACGTGGAAATGCGTCTTTGAAACGGTAAACCTCCTGAATCAACTACGGGTAGGG
96647 T A A CTCAGTTATCAAATACGTGGAAATGTGTCTTTGAAACGGTAAACCTCCTGAATCAACTACGGGTAGGG
TTATATTACTAATTCCAGCCCTACCCGTAGTTGATTCAGGAGGTTTACCGTTTCAAAGAC[GA]CATTTCCACGTATTTGATAACTGAGCAGCATTGGTAGTAATATCTAA
96647 IS [GA] AGCTTGAAAGATT
96651 I S CAAAATGGCTCTGCAATGAGGAGTTTGAACTTATTCTGTCGTAC
96651 P A S CGCGCCGAGGTCGATGGATTTTCAATAAGGAY
96651 P T S ATGACGTGGCAGACACTGATGGATTTTCAATAAGGAY
96651 T A S CCCATCCTTATTGAAAATCCATCAGATACGACAGAATAAAGTTCAAACTCCTCATTGCAGAGCCATTTTGAT
96651 T T S CCCATCCTTATTGAAAATCCATCAGTTACGACAGAATAAAGTTCAAACTCCTCATTGCAGAGCCATTTTGAT
AATGTCAATGTTGTGTTTTTTACATTTGGTCACATCCCATCCTTATTGAAAATCCATCAG[AT]TACGACAGAATAAAGTTCAAACTCCTCATTGCAGAGCCATTTTGATC
96651 IS [AT] TGGCCCACCCCCA
96654 I S GGTCTCAGGGGAGCGGTGGGGTGA
96654 P G S ATGACGTGGCAGACCGAGGCTCCACCAGY
96654 P A S CGCGCCGAGGTGAGGCTCCACCAGY
96654 T G S CCTCCTGGTGGAGCCTCGCACCCCCACCGCTCCCCTGAGACCTC
96654 T A S CCTCCTGGTGGAGCCTCACACCCCACCGCTCCCCTGAGACCTC
CACAGGGCCCTGAGACCGCTGCTGGTTTCCCATAGCCACCTCACCTCCTGGTGGAGCCTC[GA]CACCCCACCGCTCCCCTGAGACCTCCCTTTACCATGTTGCCTGGTTTTC
96654 IS [GA] TTTTCTTTATG
96655 I A CCTTCGAACAGCAGGGCCTCCCCT
96655 P G A ATGACGTGGCAGAGGTGGCCCTCATTCTGY
96655 P A A CGCGCCGAGGATGGCCCTCATTCTGCY
96655 T G A AGCAGCAGAATGAGGGCCACGGGGAGGCCCTGCTGTTCGAAGGCA
96655 T A A AGCAGCAGAATGAGGGCCATGGGGAGGCCCTGCTGTTCGAAGGCA
GACAGCAGAACAAGCAGGGCCGACTTACTCTTGATCCCTTCGAACAGCAGGGCCTCCCC[GA]TGGCCCTCATTCTGCTCCTGGAACAGTTTGTAGCAGGACCTGGG
96655 IS [GA] GCTGGCCAGGAGC
96657 I S CTCATAAGATAAAGAATCTATCCCCTAATTTTCTATATATTGTTATTTCCAGAAAATTGGT
96657 P C S ATGACGTGGCAGACGTCAATATCACACCCCAAAY
96657 P T S CGCGCCGAGGATCAATATCACACCCCAAATAAY
96657 T C S GGATTTATTTGGGGTGTGATATTGACCCAATTTTCTGGAAATAACAATATATAGAAAATTAGGGGATAGATTCTTTATCTTATGAG
96657 T T S GGATTTATTTGGGGTGTGATATTGATCCAATTTTCTGGAAATAACAATATATAGAAAATTAGGGGATAGATTCTTTATCTTATGAG
CTTGGGAGAAATTTCACTGATCTGGGTGCCACCTGGATTTATTTGGGGTGTGATATTGA[CT]CCAATTTTCTGGAAATAACAATATATAGAAAATTAGGGGATAGATT
96657 IS [CT] CTTTATCTTATGAG
96659 I A CCGAAGAATTCGTTATCATGTATGGAAATTAGTGAATGACTAAACAAGGAGCTAAAAAGT
96659 P A A CGCGCCGAGGATAAAAAGTGGGATGATTCGY
96659 P G A ATGACGTGGCAGACGTAAAAGAGTGGGATGATTCGY
96659 T A A TAGTCGAATCATCCCACTCTTTTATCTTTTAGCTCCTTGTTTAGTCATTCACTAATTTCCATACATGATAACGAATTCTTCGGT
96659 T G A TAGTCGAATCATCCCACTCTTTTACCTTTTAGCTCCTTGTTTAGTCATTCACTAATTTCCATACATGATAACGAATTCTTCGGT
ACCGAAGAATTCGTTATCATGTATGGAAATTAGTGAATGACTAAACAAGGAGCTAAAAAG[AG]TAAAAGAGTGGGATGATTCGACTAGAATCTTCAAAAGACATAGGA
96659 IS [AG] GAACCCTGGATATC KIAA0010
96660 I S GGCAGGATCAGAACTGTGGCTCAGCATCCA
96660 P A S CGCGCCGAGGTGATGGGGAGTGAGCY
96660 P G S ATGACGTGGCAGACCGATGGGGAGTGAGCT
96660 T A S CTCTGCTCACTCCCCATCAGGATGCTGAGCCACAGTTCTGATCCTGCCTA
96660 T G S CTCTGCTCACTCCCCATCGGGATGCTGAGCCACAGTTCTGATCCTGCCTA
GACATTGAGACTGAGGGCACAGGCTCACAGCAGCAGGCTGGCCTCTGCTCACTCCCCATC[AG]GGATGCTGAGCCACAGTTCTGATCCTGCCTACTACTTACCATTGTGAA
96660 IS [AG] TCATGTAGTGCA
96661 I A CCCAGGGGCAGAGCAGGGATTTGAACAAT
96661 P A A CGCGCCGAGGAGTCTGGCTTTGCCGY
96661 P G A ATGACGTGGCAGACGGTCTGGCTTTGCCY
96661 T A A AACCCGGCAAAGCCAGACTTGTTCAAATCCCTGCTCTGCCCCTGGGGG
96661 T G A AACCCGGCAAAGCCAGACCTTGTTCAAATCCCTGCTCTGCCCCTGGGGG
CTTTTATAGGGCAAATGACTGGCCCAGGAACCCCCAGGGGCAGAGCAGGGATTTGAACAA[AG]GTCTGGCTTTGCCGGGTTGAGGGCAGCACCCTGTCTGTTTAGAAGT
96661 IS [AG] GGAAGCAAACAGT
96662 I S CCTCACCTTGGCGGCCACAGCTTCT
96662 P T S CGGCCCGAGGAATGTTGGCAGGGGCY
96662 P C S ATGACGTGGCAGACGATGTTGGCAGGGGY
96662 T T S CATCGCCCCTGCCAACATTGAAGCTGTGGCCGCCAAGGTGAGGCG
96662 T C S CATCGCCCCTGCCAACATCGAAGCTGTGGCCGCCAAGGTGAGGCG
CATCATCTACTCCCCAGAGAAGAACCCCAACGCGTTCGAATGCATCGCCCCTGCCAACAT[TC]CGAAGCTGTGGCCGCCAAGGTGAGGCGGGGACTGGGAGGTTGGATGGG
96662 IS [TC] GCCAGGACCCTCC
96663 I A CTTGTCCCAGCAGCTGCCCCGTT
96663 P G A ATGACGTGGCAGACGTTAACTCCCTCTCTGCAY
96663 P C A CGCGCCGAGGCTTAACTCCCTCTCTGCAY
96663 T G A AGGGTGCAGAGAGGGAGTTAAGACGGGGCAGCTGCTGGGACAAGGG
96663 T C A AGGGTGCAGAGAGGGAGTTAAGACGGGGCAGCTGCTGGGACAAGGG


STK13


96699 P A
96699 T G
96699 T A
96699 IS [GA]
96701 I
96701 P T
96701 P G
96701 T T
96701 T G
96701 IS [TG]
96703 I
96703 P G
96703 P T
96703 T G
96703 T T
96703 IS [GT]
96704 I
96704 P A
96704 P C
96704 T A
96704 T C
96704 IS [AC]
96705 I
96705 P T
96705 P C
96705 T T
96705 T C
96705 IS [TC]
96709 I
96709 P T
96709 P A
96709 T T
96709 T A
96709 IS [TA]
96711 I
96711 P T
96711 P C
96711 T T
96711 T C
96711 IS [TC]
96712 I
96712 P G
96712 P C
96712 T G
96712 T C
96712 IS [GC]
96713 I
96713 P G
96713 P A
96713 T G
96713 T A
96713 IS [GA]
96714 I
96714 P C
96714 P T
96714 T C
96714 T T
96714 IS [CT]
96715 I
96715 P G
96715 P T
96715 T G
96715 T T
96715 IS [GT]
96721 I
96721 P G
96721 P A
96721 T G
96721 T A
96721 IS [GA]
96722 I
96722 P G
96722 P A
96722 T G
96722 T A
96722 IS [GA]
96723 I
96723 P C
96723 P T
96723 T C
96723 T T
96723 IS [CT]
96725 I
96725 P T
96725 P G
S CGCGCCGAGGTCGAGGTGCTGCTTY
S ATGGAAGCNGCACCTCGGGGGCGAGGGGAACCCAAGTCTAACCACAGCC
S ATGGAAGCAGCACCTCGAGGGCAGGGGAACCCAAGTCTAACCACAGCC
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TGCGCGGCTTCA
S CGGCTGGGGCCGGACGGGT
S ATGACGTGGCAGACCAAGAGCACTCAGAGCY
S CGCGCCGAGGAAAGAGCACTCAGAGCCY
S ACCGGGCTCTGAGTGCTCTTGCCCGTCCGGCCCCAGCCGCG
S ACCGGGCTCTGAGTGCTCTTTCCCGTCCGGCCCCAGCCGCG
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A GCAGCTTTTGAGGAGCTGCTGTGCTCTCCT
A CGCGCCGAGGACTCCAGAGCACGCY
A ATGACGTGGCAGACCCTCCAGAGCACGCY
A GACTGCGTGCTCTGGAGTGGAGAGCACAGCAGCTCCTCAAAAGCTGCTG
A GACTGCGTGCTCTGGAGGGGAGAGCACAGCAGCTCCTCAAAAGCTGCTG
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AGTCCCTGAGTCA
A CCTTACCAAAGTCAGCATCACACGCCTCGCA
A CGCGCCGAGGTGGTATCATTATTCCCGGTY
A ATGACGTGGCAGACCGGTATCATTATTCCCGGY
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A CAGCACCGGGAATAATGATACCGGCGAGGCGTGTGATGCTGACTTTGGTAAGGTG
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GGGTCCAGGGC
S TGTTCCCCAGTGCCCTCATCCCCAC
S CGCGCCGAGGACTCAAGTAGAACTAGCGCY
S ATGACGTGGCAGACTCTCAAGTAGAACTAGCGCY
S AAAGGCGCTAGTTCTACTTGAGTTGGGGATGAGGGCACTGGGGAACAGC
S AAAGGCGCTAGTTCTACTTGAGATGGGGATGAGGGCACTGGGGAACAGC
TTGCATTTTGAACCAGTATTCAGCATCATCTCTGATGAAAAGGCGCTAGTTCTACTTGAG[TA]TGGGGATGAGGGCACTGGGGAACAGCAAATAGGAAAACTTGAAGCC
TTAATATATCAGGA
S GCATTGGGCTCCGCTACATTCCTGAGTCACT
S CGCGCCGAGGATTTCTCCTTGTGTTTTAGGGY
S ATGACGTGGCAGACGTTTCTCCTTGTGTTTTAGGY
S ACCACCCTAAAACACAAGGAGAAATGTGACTCAGGAATGTAGCGGAGCCCAATGCAG
S ACCACCCTAAAACACAAGGAGAAACGTGACTCAGGAATGTAGCGGAGCCCAATGCAG
GGCAGGGGCTAGGCTGGGGCGTAGCGGTATGCAGCATAACCACCCTAAAACACAAGGAGAAA[TC]GTGACTCAGGAATGTAGCGGAGCCCAATGCAGGGATGCCCAGTGGC
AAGACCACACCAGA
S GGTGTGGTCTTGCCACTGGGCATCCT
S CGCGCCGAGGCTGCATTGGGCTCCY
S ATGACGTGGCAGACGTGCATTGGGCTCCY
S TAGCGGAGCCCAATGCAGGGATGCCCAGTGGCAAGACCACACCAG
S TAGCGGAGCCCAATGCACGGATGCCCAGTGGCAAGACCACACCAG
CATAACCACCCTAAAACACAAGGAGAAATGTGACTCAGGAATGTAGCGGAGCCCAATGCA[GC]GGATGCCCAGTGGCAAGACCACACCAGAGCAGCCGTTACCCAAATCT
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S GGTCACCAGGCACCAGGGCTGCA
S ATGACGTGGCAGACCGGGGAGACGGTCY
S CGCGCCGAGGTGGGGAGACGGTCAY
S CAGCTGACGGTCTCCCCGGCAGGCCTGGTGCCTGGTGACCCG
S CAGCTGACCGTCTCCCCAGCAGCCCTGGTGCCTGGTGACCCG
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TCAGGCCCGTG
S GCACCCAGCGGACTCACCGGGT
S ATGACGTGGCAGACGATGGCCTGGCGGY
S CGCGCCGAGGAATGGCCTGGCGGY
S GCCACCGCCAGGCCATCCCCGGTGAGTCCGCTGGGTGCCT
S GCCACCGCCAGGCCATTCCCGGTGAGTCCGCTGGGTGCCC
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GACAAGCACTT
A GAGAGGCAACCCTCCAGCAGGTGTGGC
A ATGACGTGGCAGACGTTGCCACAGACAGCY
A CGCGCCGAGGTTTGCCACAGACAGCY
A GTATGCTGTCTGTGGCAACCACACCTGCTGCAGGGTTCCCTCTCTG
A GTATGCTGTCTGTGGCAAACACACCTGCTGCAGGGTTCCCTCTCTG
CCTGGGGGCCAGGTTGAGGGACGGCCAGGAAGGCACAGAGAGGAACCCTCCAGCAGGTGTGG[GT]TTGCCACAGACAGCATACTCCGTCTTGCACATGTATGGACACTTGG
CGAAGAAGCACACG
S GGCCAGTGGCGCATCTACGGCAGA
S ATGACGTGGCAGACCGAGGAGGACCTATGTGY
S CGCGCCGAGGTGAGGAGGAGACCTATGTGY
S AGAGCACATAGGTCCTCCTCGCTGCCGTAGATGCGCCACTGGCCAC
S AGAGCACATAGGTCCTCCTCACTGCCGTAGATGCGCCACTGGCCAC
CACCCTCCCGCCTGCAAGCGGCCCCTCACCGTGGTAGGGCAGAGCACATAGGTCCTCCTC[GA]CTGCCGTAGATGCGCCACTGGCCACTGCGGGTCTGGTCACCACGCTCAA
GGGTGCCAGGC
A CCCGCGAAGCCCCAGGGCCT
A ATGACGTGGCAGACGGCCGGGCGCY
A CGCGCCGAGGAGCCGGGCGY
A TGATGCGCCCGGCCGCCCTGGGGGTTCGCGGGGT
A TGATGCGCCCGGCTGGCCCTGGGGGTTCGCGGGGT
CAGTCCTGAAGACGCCTCAGCAGGGGCAGGCAAGAAGACACCCCGCGAACCCCCAGGGCC[GA]GCCGGGCGCATCACTGGGAGCCGGGGCTATCTCCCTCCGTCAGCGTCT
TGAAGTCCATGC
S CCAAAGCCAGTTTTAGAAAGGCCCAGGATAGTGGT
S ATGACGTGGCAGACGGAAAAGCACAGTAGCTGY
S CGCGCCGAGGAGAAAAAGCACAGTAGCTGY
S TCAGCAGCTACTGTGCTTTCCCCACTATCCTGGGCCTTTCTAAAACTGGCTTTGGAC
S TCAGCAGCTACTGTGCTTTCTCCACTATCCTGGGCCTTTCTAAAACTGGCTTTGGAC
TCATTGTAAAGAATGAGAACAGGACTAGAACCCACCTCTTCAGCAGCTACTGTGCTTTTC[CT]CCACTATCCTGGGCCTTTCTAAAACTGGCTTTGGACTAAAACCAGGTC
TTTCACCTGCCT
A TGAGAGGCTGTAGCTCGACCTAGTTTCTGTGAAGAATTTTC
A CGCGCCGAGGTTCAAGTGATCCCTCTCGY
A ATGACGTGGCAGACGTCAAGTGATCCCTCTCGY

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FIGURE 129C

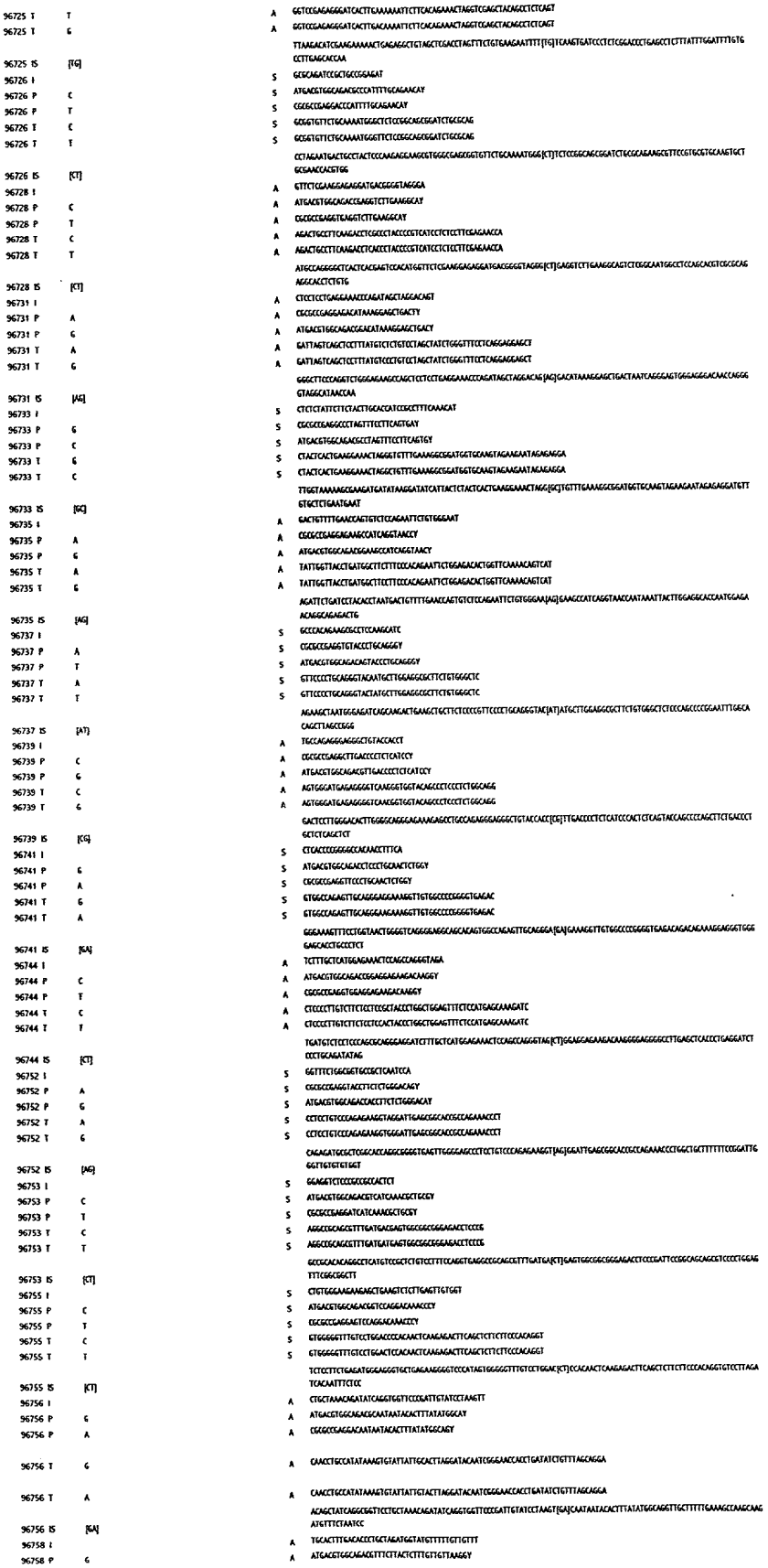
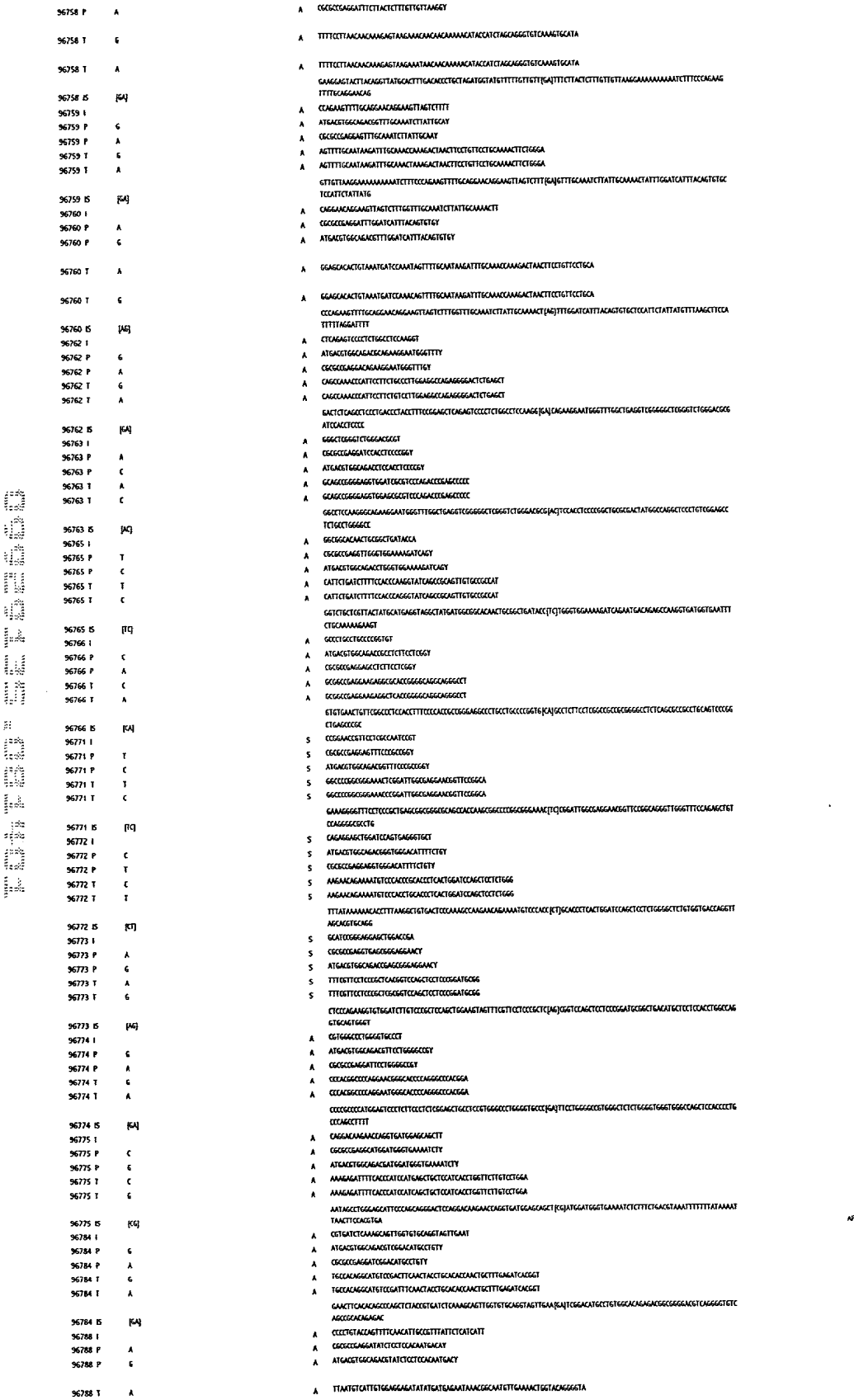
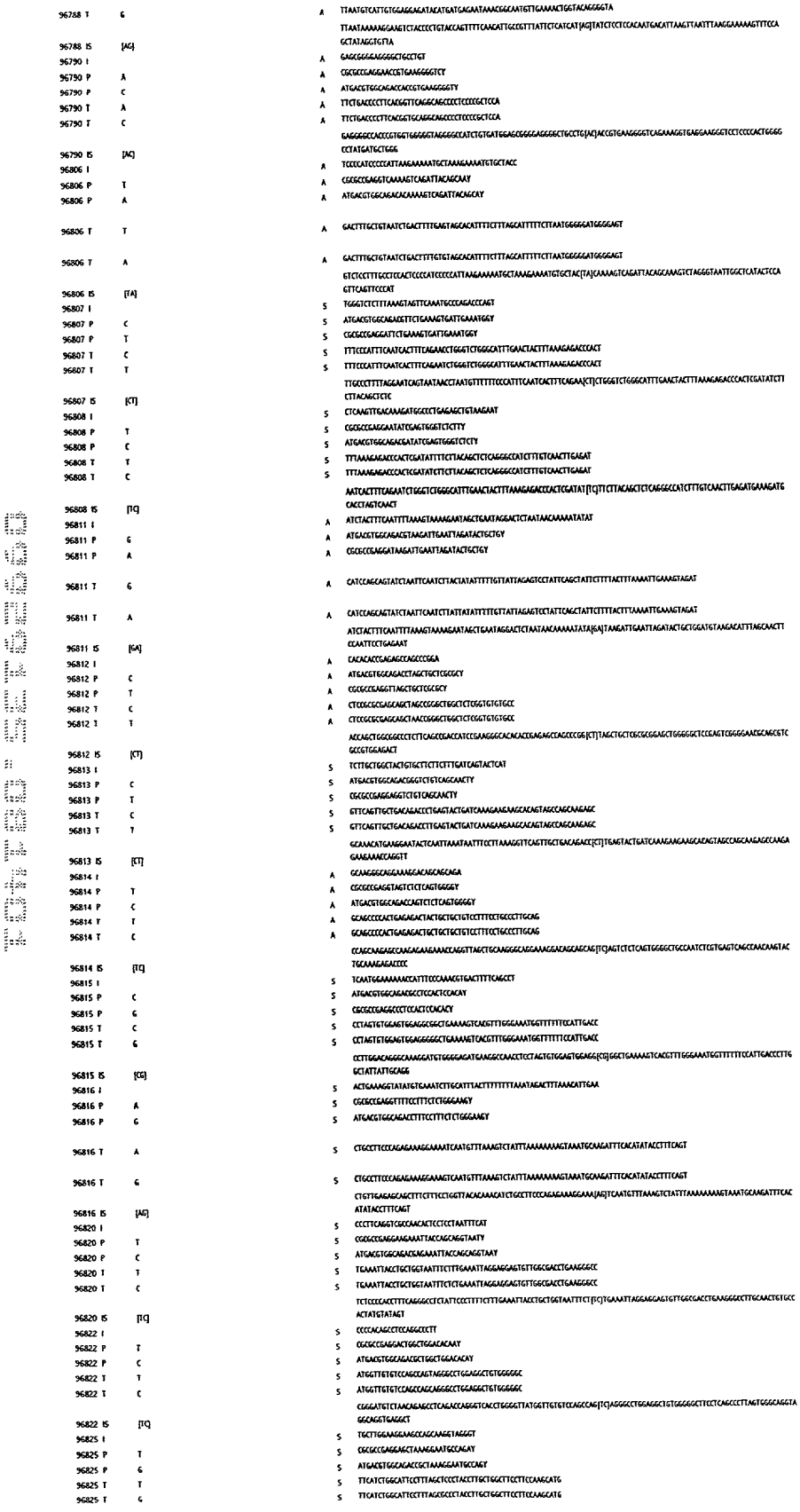


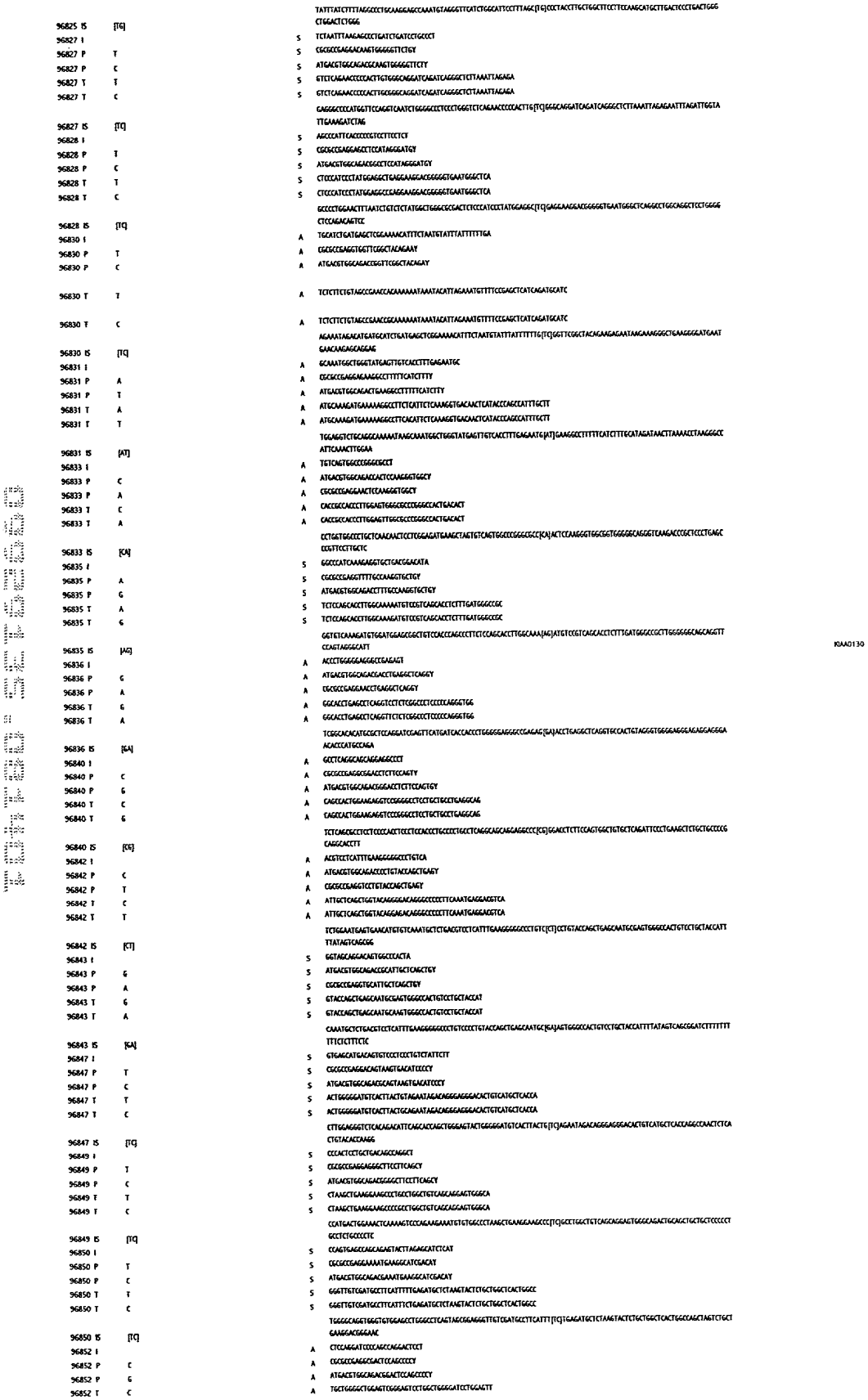
FIGURE 129C



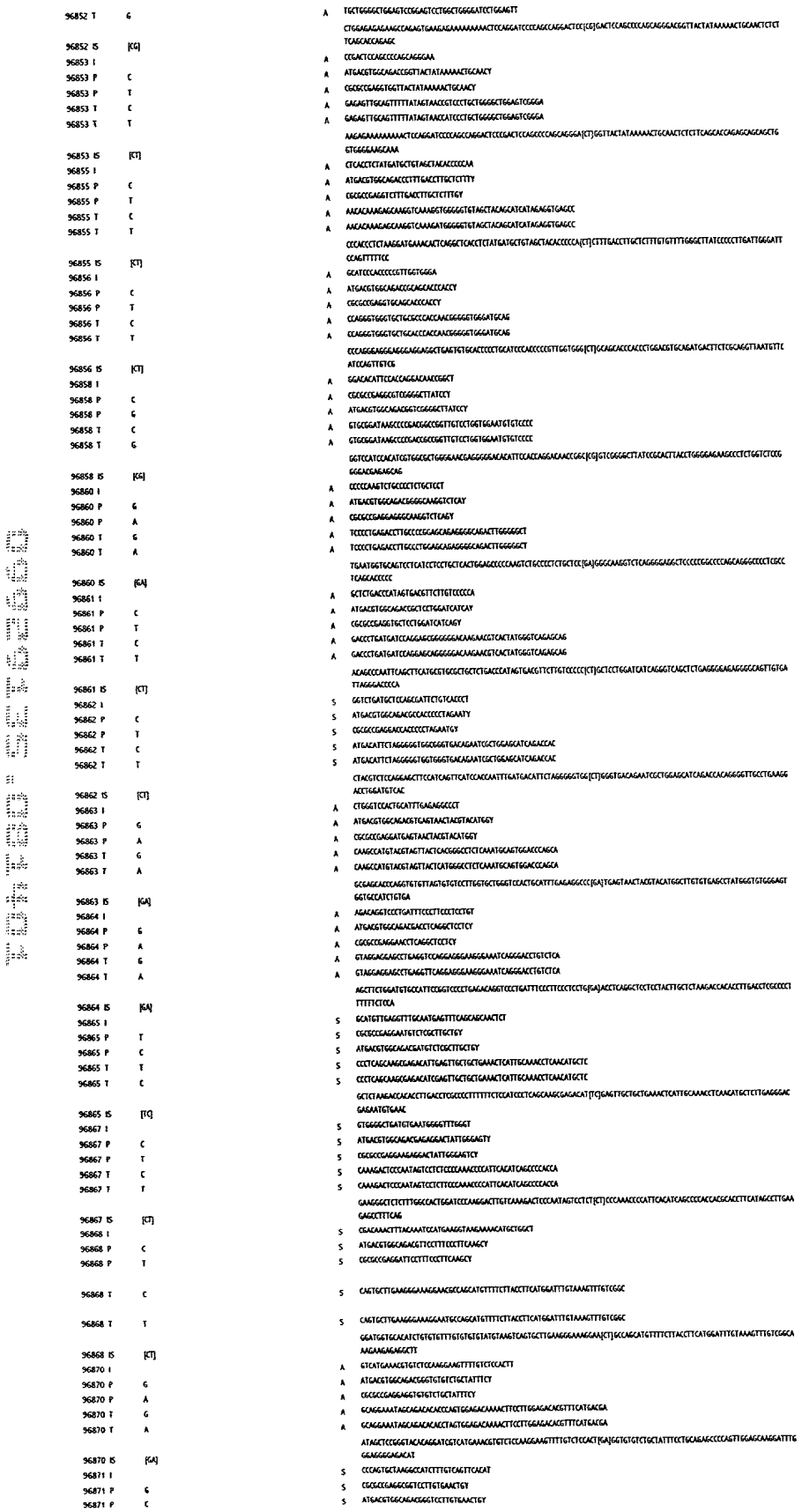
APOBEC1

FIGURE 129C




TATTTATCTTTTAGGCCCTGCAAGGAGCCAAATGTAGGGTTCATCTGGCATTCCTTTAGC[TG]CCCTACCTTGCTGGCTTCCTTCCAAGCATGCTTGACTCCCTGACTGGG
CTGGACTCTGGG
96825 IS [TG]
96827 I
96827 P T
96827 P C
96827 T T
96827 T C
S TCTAATTTAAGAGCCCTGATCTGATCCTGCCCT
S CGCGCCGAGGACAAGTGGGGGTTCTGY
S ATGACGTGGCAGACGCAAGTGGGGGTTCTY
S GTCTCAGAACCCCCACTTGTGGGCAGGATCAGATCAGGGCTCTTAAATTAGAGA
S GTCTCAGAACCCCCACTTGCGGGGCAGGATCAGATCAGGGCTCTAAATTAGAGA
GAGGGCCCCATGGTTCCAGGTCAATCTGGGGCCCTCCCTGGGTCTCAGAACCCCCACTTG[TC]GGGCAGGATCAGATCAGGGCTCTTAAATTAGAGAATTTAGATTGGTA
TTGAAAGATCTAG
96827 IS [TC]
96828 I
96828 P T
96828 P C
96828 T T
96828 T C
S AGCCCATTCACCCCCGTCCTTCCTCT
S CGCGCCGAGGAGCCTCCATAGGGATGY
S ATGACGTGGCAGACGGCCTCCATAGGGATGY
S CTCCCATCCCTATGGAGCCTGAGGAAGGACGGGGGTGAATGGGCTCA
S CTCCCATCCCTATGGAGCCCAGGAAGGACGGGGGTGAATGGGCTCA
GCCCCTGGAACTTTAATCTGTCTCTATGGCTGGGCGCGACTCTCCCATCCCTATGGAGGC[TC]GAGCAAGGACGGGGGTGAATGGGCTCAGGCCTGCCAGGCTCCTGGGG
CTCCAGACAGTCC
96828 IS [TC]
96830 I
96830 P T
96830 P C
A TGCATCTGATGAGCTCGGAAAACATTTCTAATGTATTTATTTTTTGA
A CGCGCCGAGGTGGTTCGGCTACAGAAY
A ATGACGTGGCAGACCGGTCGGCTACAGAY
96830 T T
96830 T C
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GAACAAGAGCAGGAG
96830 IS [TC]
96831 I
96831 P A
96831 P T
96831 T A
96831 T T
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A CGCGCCGAGGAGAAGGCCTTTTTCATCTTTY
A ATGACGTGGCAGACTGAAGGCCTTTTTCATCTTY
A ATGCAAAGATGAAAAAGGCCTTCTCATTCTCAAAGGTGACAACTCATACCCAGCCATTTGCTT
A ATGCAAAGATGAAAAAGGCCTTCACATTCTCAAAGGTGACAACTCATACCCAGCCATTTGCTT
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ATTCAAACTTGGAA
96831 IS [AT]
96833 I
96833 P C
96833 P A
96833 T C
96833 T A
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A ATGACGTGGCAGACCACTCCAAGGGTGGCY
A CGCGCCGAGGAACTCCAAGGGTGGCY
A CACCGCCACCCTTGGAGTGGGCGCCCGGGCCACTGACACT
A CACCGCCACCCTTGGAGTTGGCGCCCGGGCCACTGACACT
CCTGGTGGCCCTGCTCAACAACTCCTCGGAGATGAAGCTAGTGTCAGTGGCCCGGGCGCC[CA]ACTCCAAGGGTGGCGGTGGGGGCAGGGTCAAGACCCGCTCCCTGAGC
CCGTTCCTTGCTC
96833 IS [CA]
96835 I
96835 P A
96835 P G
96835 T A
96835 T G
S GGCCCATCAAAGAGGTGCTGACGGACATA
S CGCGCCCAGGTTTTGCCAAGGTGCTGY
S ATGAGGTGGCAGACCTTTGCCAAGGTGCTGY
S TCTCCAGCACCTTGGCAAAAATGTCCGTCAGCACCTCTTTGATGGGCCGC
S TCTCCAGCACCTTGGCAAAGATGTCCGTCAGCACCTCTTTGATGGGCCGC
GGTGTCAAAGATGTGGATGGAGGCGGCTGTCCACCCAGCCCTTCTCCAGCACCTTGGCAAA[AG]ATGTCCGTCAGCACCTCTTTGATGGGCCGCTTGGGGGGCAGCAGGTT
CCAGTAGGGCATT
96835 IS [AG]
96836 I
96836 P G
96836 P A
96836 T G
96836 T A
A ACCCTGGGGGAGGGCCGAGAGT
A ATGAGGTGGCAGACGACCTGAGGCTCAGGY
A CGCGCCGAGGAACCTGAGGCTCAGGY
A GGCACCTGAGCCTCAGGTCCTCTCGGCCCTCCCCCAGGGTGG
A GGCACCTGAGCCTCAGGTTCTCTCGGCCCTCCCCCAGGGTGG
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ACACCCATGCCAGA
96836 IS [GA]
96840 I
96840 P C
96840 P G
96840 T C
96840 T G
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A CGCGCCGAGGCGGAGCCTCTTCCAGTY
A ATGACGTGGCAGACGGGAACCTCTTCCAGTGY
A CAGCCACTGGAAGAGGTCCCGGGGCCTCCTCGCTGCCTGAGGCAG
A CAGCCACTGGAAGAGGTCCCGGGCCTCCTGCTGCCTGAGGCAG
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CAGGCACCTT
96840 IS [CG]
96842 I
96842 P C
96842 P T
96842 T C
96842 T T
A ACGTCCTCATTTGAAGGGGGGCCCTGTCA
A ATGAGGTGGCAGACCCCTGTACCAGCTGAGY
A CGCGCCGAGGTCCTGTACCAGCTGAGY
A ATTGCTCAGCTGGTACAGGGGACAGGGCCCCCTTCAAATGAGGAGGTCA
A ATTGCTCAGCTGGTACAGGGACAGGGCCCCCTTCAAATGAGGAGGTCA
TCTGGAATGAGTGAACATGTGTCAAATGCTCTGAGGTCCTCATTTGAAGGGGGCCCTGT[CT]CCTGTACCAGCTGAGCAATGCGAGTGGGCCACTGTCCTGCTACCATT
TTATAGTCAGCGG
96842 IS [CT]
96843 I
96843 P G
96843 P A
96843 T G
96843 T A
S GGTAGCAGCACAGTGGCCCACTA
S ATGACGTGGCAGACCGCATTGCTCAGCTGY
S CGCGCCGAGGTCATTGCTCAGCTGY
S GTACCAGCTGAGCAATGCGAGTGGGCCACTGTCCTGCTACCAT
S GTACCAGCTGAGCAATGCAAGTGGGCCACTGTCCTGCTACCAT
CAAATGCTCTGACGTCCTCATTTGAAGGGGGCCCTGTCCCCTGTACCAGCTGAGCAATGC[GA]AGTGGGCCACTGTCCTGCTACCATTTTATAGTCAGCGGATCTTTTTTT
TTTCTCTTTCTC
96843 IS [GA]
96847 I
96847 P T
96847 P C
96847 T T
96847 T C
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S CGCGCCGAGGACAGTAAGTGACATCCCCY
S ATGACGTGGCAGACGCAGTAAGTGACATCCCY
S ACTGGGGGATGTCACTTACTGTAGAATAGACAGGGAGGGACACTGTCATGCTCACCA
S ACTGGGGGATGTCACTTACTGCAGAATAGACAGGGAGGGACACTGTCATGCTCACCA
CTTGCAGGGTCTCACAGACATTCAGCACCAGCTGGGAGTACTGGGGGATGTCACTTACTG[TC]AGAATAGACAGGGAGGGACACTGTCATGCTCACCAGCCCAACTCTCA
CTGTACACCAAGG
96847 IS [TC]
96849 I
96849 P T
96849 P C
96849 T T
96849 T C
S CCCACTCCTGCTGACAGCCAGGCT
S CGCGCCGAGGAGGGCTTCCTTCAGCY
S ATGACGTGGCAGACGGGGCTTCCTTCAGCY
S CTAAGCTGAAGGAAGCCCTGCCTGGCTGTCAGCAGGAGTGGGCA
S CTAAGCTGAAGGAAGCCCCGCCTGGCTGTCAGCAGGAGTGGGCA
CCATGACTGGAAACTCAAAAGTCCCAGAAGAAATGTGTGGCCCTAAGCTGAAGGAAGCCC[TC]GCCTGGCTGTCAGCAGGAGTGGGCAGACTGCAGCTGCTCCCCCT
GCCTCTGCCCCTC
96849 IS [TC]
96850 I
96850 P T
96850 P C
96850 T T
96850 T C
S CCAGTGAGCCAGCAGAGTACTTAGAGCATCTCAT
S CGCGCCGAGGAAAATGAAGGCATCGACAT
S ATGACGTGGCAGACGAAATGAAGGCATCGACAT
S GGGTTGTCGATGCCTTCATTTTGAGATGCTCTAAGTACTCTGCTGGCTCACTGGCC
S GGGTTGTCGATGCCTTCATTTCTGAGATGCTCTAAGTACTCTGCTGGCTCACTGGCC
TGGGGCAGGTGGGTGTGGAGCCTGGGCCTCAGTAGCGGAGGGTTGTCGATGCCTTCATTT[TC]TGAGATGCTCTAAGTACTCTGCTGGCTCACTGGCAGCTAGTCTGCT
GAAGGACGGGAAC
96850 IS [TC]
96852 I
96852 P C
96852 P G
96852 T C
A CTCCAGGATCCCCAGCCAGGACTCCT
A CGCGCCGAGGCGACTCCAGCCCCY
A ATGACGTGGCAGACGGACTCCAGCCCCY
A TGCTGGGGCTGGAGTCGGGAGTCCTGGCTGGGGATCCTGGAGTT

KIAA0130


96852 T G
A TGCTGGGGCTGGAGTCCGGAGTCCTGGCTGGGGATCCTGGAGTT
CTGGAGAGAGAAGCCAGAGTGAAGAGAAAAAAAAACTCCAGGATCCCCAGCCAGGACTCC[CG]GACTCCAGCCCCAGCAGGGACGGTTACTATAAAAACTGCAACTCTCT
TCAGCACCAGAGC
96852 IS [CG]
96853 I
A CCGACTCCAGCCCCAGCAGGGAA
96853 P C
A ATGACGTGGCAGACCGGTTACTATAAAAACTGCAACY
96853 P T
A CGCGCCGAGGTGGTTACTATAAAAACTGCAACY
96853 T C
A GAGAGTTGCAGTTTTTATAGTAACCGTCCCTGCTGGGGCTGGAGTCGGGA
96853 T T
A GAGAGTTGCAGTTTTTATAGTAACCATCCCTGCTGGGGCTGGAGTCGGGA
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GTGGGGAAGCAAA
96853 IS [CT]
96855 I
A CTCACCTCTATGATGCTGTAGCTACACCCCCAA
96855 P C
A ATGACGTGGCAGACCCTTTGACCTTGCTCTTTY
96855 P T
A CGCGCCGAGGTCTTTGACCTTGCTCTTTGY
96855 T C
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96855 T T
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CCAGTTTTTCC
96855 IS [CT]
96856 I
A GCATCCCACCCCCCTTTGGTGGGA
96856 P C
A ATGACGTGGCAGACCGCAGCACCCACCY
96856 P T
A CGCGCCGAGGTGCAGCACCCACCY
96856 T C
A CCAGGGTGGGTGCTGCGCCCACCAACGGGGGTGGGATGCAG
96856 T T
A CCAGGGTGGGTGCTGCACCCTACCAACGGGGGTGGGATGCAG
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ATCCAGTTGTCG
96856 IS [CT]
96858 I
A GGACACATTCCACCAGGACAACCGGCT
96858 P C
A CGCGCCGAGGGTCGGGGCTTATCCY
96858 P G
A ATGACGTGGCAGACGGGCAAGGTCTCAY
96858 T C
A GTGCGGATAAGCCCCGAGGCCGGTTGTCCTGGTGGAATGTGTCCCC
96858 T G
A GTGCGGATAAGCCCCGACGCCGGTTGTCCTGGTGGAATGTGTCCCC
GGTCCATCCACATCGTGGCGCTGGGGAACGAGGGGGAACACATTCCACCAGGACAACCGGC[CG]GTCCGGGCTTATCCGCACTTACCTGGGGAGAAGCCCTCTGGTCTCCG
GGGACGAGAGCAG
96858 IS [CG]
96860 I
A CCCCCAAGTCTGCCCCTCTGCTCCT
96860 P G
A ATGACGTGGCAGACGGGGCAAGGTCTCAY
96860 P A
A CGCGCCGAGGAGGGCAAGGTCTCAGY
96860 T G
A TCCCCTGAGACCTTGCCCCGGAGCAGAGGGGCAGACTTGGGGGCT
96860 T A
A TCCCCTGAGACCTTGCCCTGGAGCAGAGGGGCAGACTTGGGGGCT
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TCAGCACCCCC
96860 IS [GA]
96861 I
A GCTCTGACCCATAGTGACGTTCTTGTCCCCCA
96861 P C
A ATGACGTGGCAGACCGCTCCTGGATCATCAY
96861 P T
A CGCGCCGAGGTGCTCCTGGATCATCAGY
96861 T C
A GACCCTGATGATCCAGGAGCGGGGGGACAAGAACGTCACTATGGGTCAGAGCAG
96861 T T
A GACCCTGATGATCCAGGAGCAGGGGGGACAAGAACGTCACTATGGGTCAGAGCAG
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TTAGGGACCCCA
96861 IS [CT]
96862 I
S GGTCTGATGCTCCAGCGATTCTGTCACCCT
96862 P C
S ATGACGTGGCAGACGCCACCCCCTAGAATY
96862 P T
S CGCGCCGAGGAACCACCCCTAGAATGY
96862 T C
S ATGACATTCTAGGGGGTGGCGGGTGACAGAATCGCTGGAGCATCAGACCAC
96862 T T
S ATGACATTCTAGGGGGTGGTGGGTGACAGAATCGCTGGAGCATCAGACCAC
CTACGTCTCCAGGAAGCTTCCATCAGTTCATCCACCAATTTGATGACATTCTAGGGGGGTGG[CT]GGGTGACAGAATCGCTGGAGCATCAGACCACAGGGGTTGCCTGAAGG
ACCTGGATGTCAC
96862 IS [CT]
96863 I
A CTGGGTCCACTGCATTTGAGAGGCCCT
96863 P G
A ATGACGTGGCAGACGTGAGTAACTACGTACATGGY
96863 P A
A CGCGCCGAGGATGAGTAACTACGTACATGGY
96863 T G
A CAAGCCATGTACGTAGTTACTCACGGGCCTCTCAAATGCAGTGGACCCAGCA
96863 T A
A CAAGCCATGTACGTAGTTACTCATGGGCCTCTCAAATGCAGTGGACCCAGCA
GCCAGCACCCAGGTGTGTTAGTGTGTCCTTGGTGCTGGGTCCACTGCATTTGAAGAGCCC[GA]TGAGTAACTACGTACATGGCTTGTGTGAGCCTATGGGTGTGGGAGT
GGTGCCATCTGTGA
96863 IS [GA]
96864 I
A AGACAGGTCCCTGATTTCCCTTCCCTCCTGT
96864 P G
A ATGACGTGGCAGACGACCTCAGGCTCCTCY
96864 P A
A CGGGCCGAGGAACCTCAGGCTCCTCY
96864 T G
A GTAGGAGGAGCCTGAGGTTCAGGAGGGAAGGGAAATCAGGGACCTGTCTCA
96864 T A
A GTAGGAGGAGCCTGAGGTTCAGGAGGGAAGGGAAATCAGGGACCTGTCTCA
AGCTTCTGGATGTGCCATTCCGGTCCCCTGAGACAGGTCCCTGATTTCCCTTCCCTCCTGTGA]ACCTCAGGCTCCTCCTACTTGCTCTAAGACCACACCTTGACCTCGCCCCT
TTTTTCTCCA
96864 IS [GA]
96865 I
S GCATGTTGAGGTTTGCAATGAGTTTCAGCAGCAACTCT
96865 P T
S CGCGCCGAGGAATGTCTCGCTTGCTGY
96865 P C
S ATGACGTGGCAGACGATGTCTCGCTTGCTGY
96865 T T
S CCCTCAGCAAGCGAGACATTGAGTTGCTGCTGAAACTCATTGCAAACCTCAACATGCTC
96865 T C
S CCCTCAGCAAGCGAGACATCGAGTTGCTGCTGAAACTCATTGCAAACCTCAACATGCTC
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GAGAATGTGAAC
96865 IS [TC]
96867 I
S GTGGGGCTGATGTGAATGGGGTTTGGGT
96867 P C
S ATGACGTGGCAGACGAGAGGACTATTGGGAGTY
96867 P T
S CGCGCCGAGGAAGAGGACTATTGGGAGTY
96867 T C
S CAAGACTCCCAATAGTCCTCTCCCCAAACCCCATTCACATCAGCCCCACCA
96867 T T
S CAAGACTCCCAATAGTCCTCTTCCCCAAACCCCATTCACATCAGCCCCACCA
GAAGGGCTCTCTTTGGCCACTGGATCCCAAGGACTTGTCAAAGACTCCCAATAGTCCTCT[CT]CCCAAACCCCATTCACATCAGCCCCACCACGCACCTTCATAGCCTTGAA
GAGCCTTTCAG
96867 IS [CT]
96868 I
S CCACAAACTTTACAAATCCATGAAGGTAAGAAAACATGCTGGCT
96868 P C
S ATGACGTGGCAGACGTCCTTCCTTCCCTTCAAGCY
96868 P T
S CGCGCCGAGGATTCCTTCCCTTCAAGCY
96868 T C
S CAGTGCTTGAAGGGAAAGGAACGCCAGCATGTTTTCTTACCTTCATGGATTTGTAAAGTTTGTCGGC
96868 T T
S CAGTGCTTGAAGGGAAAGGAATGCCAGCATGTTTTCTTACCTTCATGGATTTGTAAAGTTTGTCGGC
GGATGGTGCACATCTGTGTGTTTGTGTGTGTATGTAAGTCAGTGCTTGAAGGGAAAGGAA[CT]GCCAGCATGTTTTCTTACCTTCATGGATTTGTAAAGTTTGTCGGCA
AAGAAGAAGAGGCTT
96868 IS [CT]
96870 I
A GTCATGAAACGTGTCTCCAAGGAAGTTTTGTCTCCACTT
96870 P G
A ATGACGTGGCAGACGGGTGTGTCTGCTATTTCY
96870 P A
A CGCGCCGAGGAAGGTGTGTCTGCTATTTCY
96870 T G
A GCAGGAAATAGCAGACACACCCAGTGGAGACAAAACTTCCTTGGAGACACGTTTCATGACGA
96870 T A
A GCAGGAAATAGCAGACACACCTAGTGGAGACAAAACTTCCTTGGAGACACGTTTCATGACGA
ATAGCTCCGGGTACACAGGATCGTCATGAAACGTGTCTCCAAGGAAGTTTTGTCTCCACT[GA]GGTGTGTCTGCTATTTCCTGCAGAGCCCCAGTTGGAGCAAGGATTTG
GGAGGGCAGACAT
96870 IS [GA]
96871 I
S CCCAGTGCTAAGGCCATCTTTGTCAGTTCACAT
96871 P G
S CGCGCCGAGGCGGTCCTTGTGAACTGY
96871 P C
S ATGACGTGGCAGACGGGTCCTTGTGAACTGY

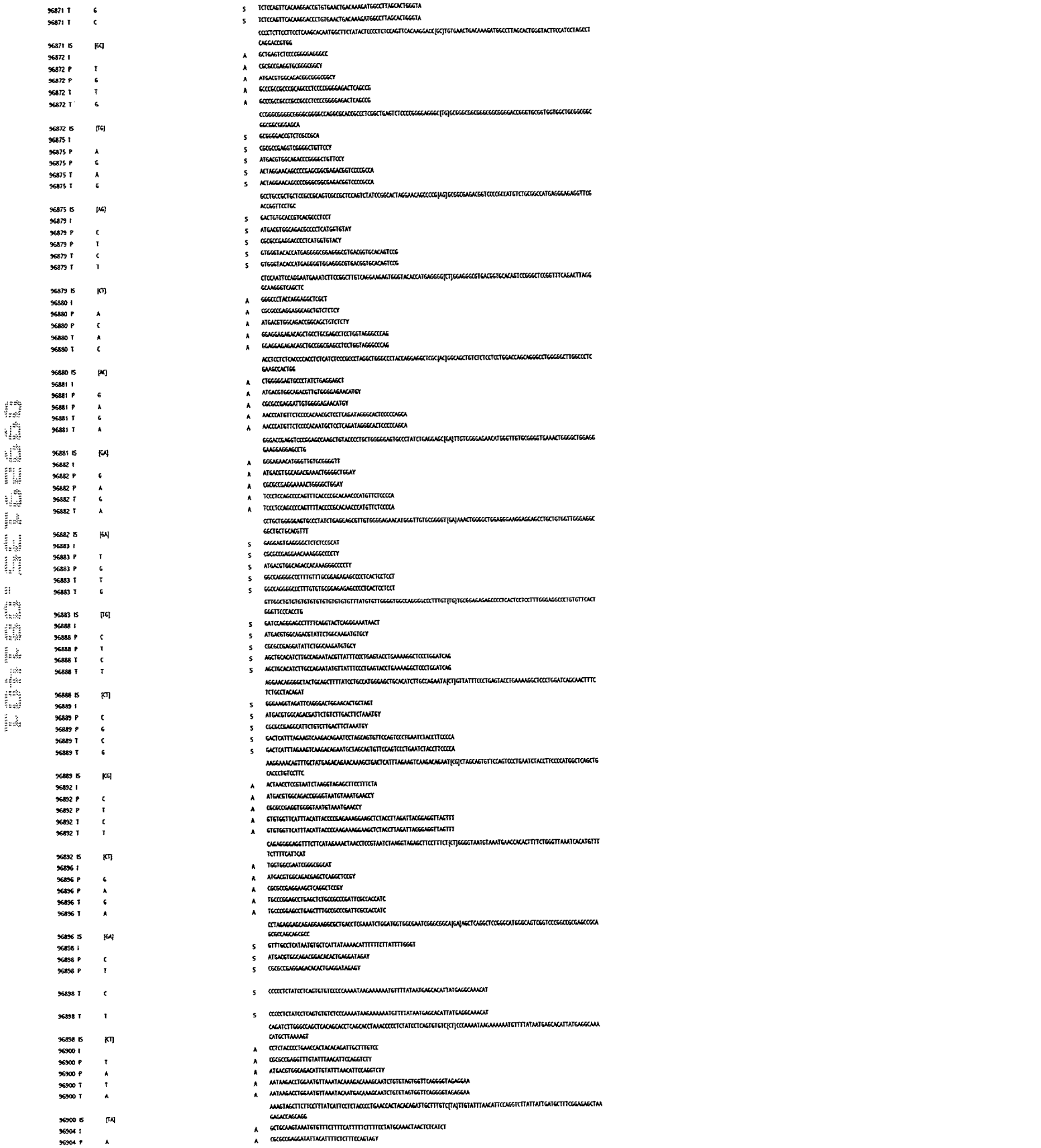


FIGURE 129C



FIGURE 129C

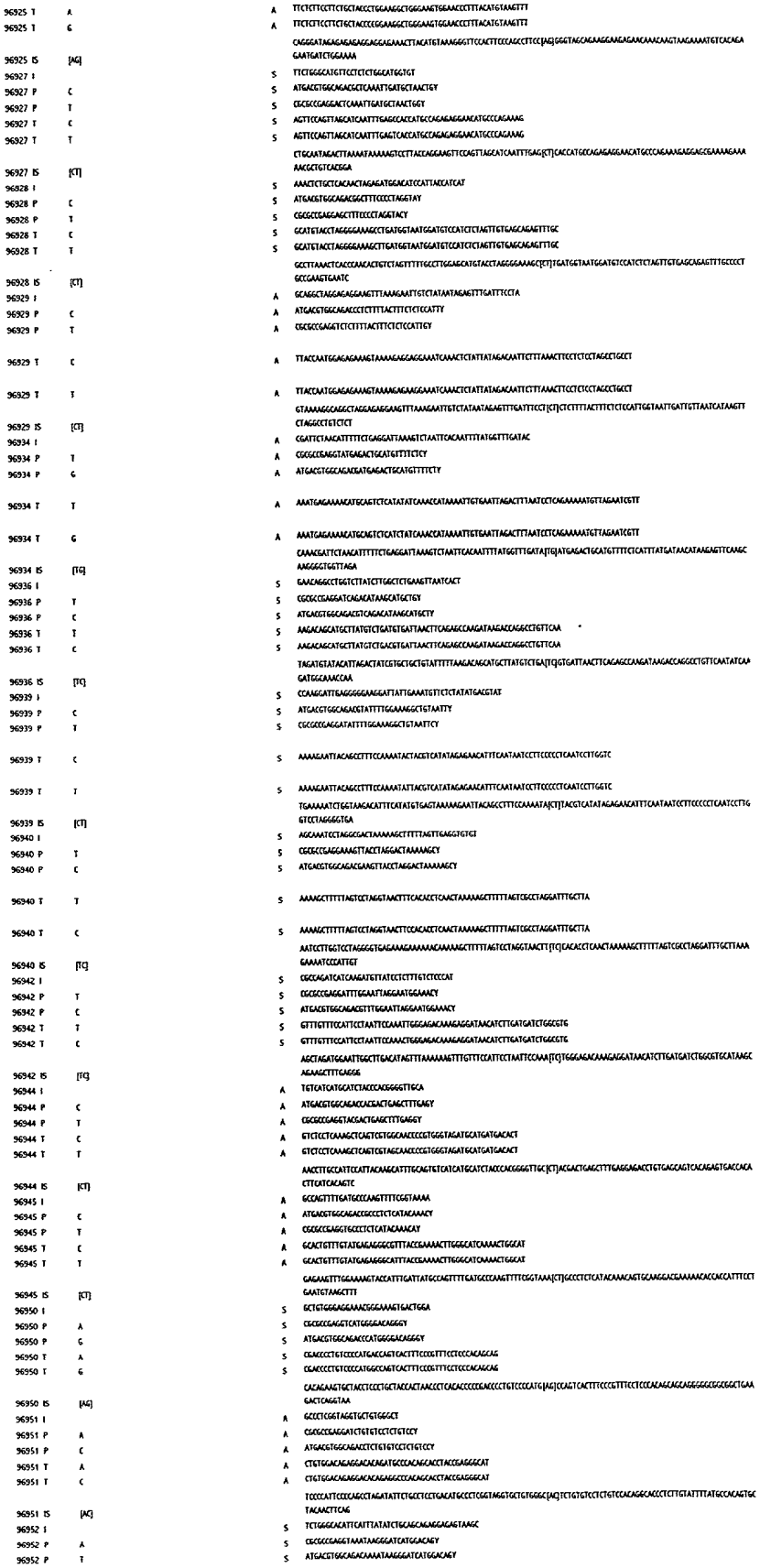

96925 T A A TTCTCTTCCTTCTGCTACCCTGGAAGGCTGGGAAGTGGAACCCTTTACATGTAAGTTT
96925 T G A TTCTCTTCCTTCTGCTACCCCGGAAGGCTGGGAAGTGGAACCCTTTACATGTAAGTTT
CAGGGATAGAGAGAGAGGAGGAGAAACTTACATGTAAAGGGTTCCACTTCCCAGCCTTCC[AG]GGGTAGCAGAAGGAAGAGAGAACAAACAAGTAAGAAAATGTCACAGA
96925 IS [AG] GAATGATCTGGAAAA
96927 I S TTCTGGGCATGTTCCTCTCTGGCATGGTGT
96927 P C S ATGACGTGGCAGACGCTCAAATTGATGCTAACTGY
96927 P T S CGCGCCGAGGACTCAAATTGATGCTAACTGGT
96927 T C S AGTTCCAGTTAGCATCAATTTGAGTCACCATGCCAGAGAGGAACATGCCCAGAAAG
96927 T T S AGTTCCAGTTAGCATCAATTTGAGTCACCATGCCAGAGAGGAACATGCCCAGAAAG
CTGCAATAGACTTAAAATAAAAAGTCCTTACCAGGAAGTTCCAGTTAGCATCAATTTGAG[CT]CACCATGCCAGAGAGGAACATGCCCAGAAAGAGGAGCGAAAAGAAA
96927 IS [CT] AACGCTGTCACGGA
96928 I S AAACTCTGCTCACAACTAGAGATGGACATCCATTACCATCAT
96928 P C S ATGACGTGGCAGACGGCTTTCCCCTAGGTAY
96928 P T S CGCGCCGAGGAGCTTTCCCCTAGGTACY
96928 T C S GCATGTACCTAGGGGAAAGCCTGATGGTAATGGATGTCCATCTCTAGTTGTGAGCAGAGTTTGC
96928 T T S GCATGTACCTAGGGGAAAGCTTGATGGTAATGGATGTCCATCTCTAGTTGTGAGCAGAGTTTGC
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96928 IS [CT] GCCGAAGTGAATC
96929 I A GCAGGCTAGGAGAGGAAGTTTAAAGAATTGTCTATAATAGAGTTGATTTCCTA
96929 P C A ATGACGTGGCAGACCCTCTTTTACTTTCTCTCCATTY
96929 P T A CGCGCCGAGGTCTCTTTTACTTTCTCTCCATTGY
96929 T C A TTACCAATGGAGAGAAAGTAAAAGAGGAGGAAATCAAACTCTATTATAGACAATTCTTTAAACTTCCTCCTAGCCTGCCT
96929 T T A TTACCAATGGAGAGAAAGTAAAAGAGAAGGAAATCAAACTCTATTATAGACAATTCTTTAAACTTCCTCCTAGCCTGCCT
GTAAAAGGCAGGCTAGGAGAGGAAGTTTAAAGAATTGTCTATAATAGAGTTTGATTTCCT[CT]CTCTTTTACTTTCTCTCCATTGGTAATTGATTGTTAATCATAAGTT
96929 IS [CT] CTAGGCCTGTCTCT
96934 I A CGATTCTAACATTTTTCTGAGGATTAAAGTCTAATTCACAATTTTATGGTTTGATAC
96934 P T A CGCGCCGAAGTATGAGACTGCATGTTTTCTCY
96934 P G A ATGACGTGGCAGACGATGAGACTGCATGTTTTCTY
96934 T T A AAATGAGAAAAACATGCAGTCTCATATATCAAACCATAAAATTGTGAATTAGACTTTAATCCTCAGAAAAATGTTAGAATCGTT
96934 T G A AAATGAGAAAACATGCAGTCTCATCTATCAAACCATAAAATTGTGAATTAGACTTTAATCCTCAGAAAAATGTTAGAATCGTT
CAAACGATTCTAACATTTTTCTGAGGATTAAAGTCTAATTCACAATTTTATGGTTTGATA[TG]ATGAGACTGCATGTTTTCTCATTTATGATAACATAAGAGTTCAAGC
96934 IS [TG] AAGGGGTGGTTAGA
96936 I S GAACAGGCCTGGTCTTATCTTGGCTCTGAAGTTAATCACT
96936 P T S CGCGCCGAGGATCAGACATAAGCATGCTGY
96936 P C S ATGACGTGGCAGACCTCAGACATAAGCATGCTY
96936 T T S AAGACAGCATGCTTATGTCTGATGTGATTAACTTCAGAGCCAAGATAAGACCAGGCCTGTTCAA
96936 T C S AAGACAGCATGCTTATGTCTGACGTGATTAACTTCAGAGCCAAGATAAGACCAGGCCTGTTCAA
TAGATGTATACATTAGACTATCGTGCTGCTGTATTTTTAAGACAGCATGCTTATGTCTGA[TG]GTGATTAACTTCAGAGCCAAGATAAGACCAGGCCTGTTCAATATCAA
96936 IS [TC] GATGGCAAACCAA
96939 I S CCAAGGATTGAGGGGGAAGGATTATTGAAATGTTCTCTATATGACGTAT
96939 P C S ATGACGTGGCAGACGTATTTTGGAAAGGCTGTAATTY
96939 P T S CGCGCCGAGGATATTTTGGAAAGGCTGTAATTCY
96939 T C S AAAAGAATTACAGCCTTTCCAAAATACTACGTCATATAGAGAACATTTCAATAATCCTTCCCCTCAATCCTTGGTC
96939 T T S AAAAGAATTACAGCCTTTCCAAAATATTACGTCATATAGAGAACATTTCAATAATCCTTCCCCTCAATCCTTGGTC
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96939 IS [CT] GTCCTAGGGGTGA
96940 I S AGCAAATCCTAGGCGACTAAAAAGCTTTTTAGTTGAGGTGTGT
96940 P T S CGCGCCGAGGAAAGTTACCTAGGACTAAAAAGCY
96940 P C S ATGACGTGGCAGACGAAGTTACCTAGGACTAAAAAGCY
96940 T T S AAAAGCTTTTTAGTCCTAGGTAACTTTCACACCTCAACTAAAAAGCTTTTTAGTCGCCTAGGATTTGCTTA
96940 T C S AAAAGCTTTTTAGTCCTAGGTAACTTCCACACCTCAACTAAAAAGCTTTTTAGTCGCCTAGGATTTGCTTA
AATCCTTGGTCCTAGGGGTGAGAAAAGAAAAAACAAAAAGCTTTTTAGTCCTAGGTAACTT[TC]CACACCTCAACTAAAAAGCTTTTTAGTCGCCTAGGATTTGCTTAAA
96940 IS [TC] GAAAATCCCATTGT
96942 I S CGCCAGATCATCAAGATGTTATCCTCTTTGTCTCCCAT
96942 P T S CGCGCCGAGGATTTGGAATTAGGAATGGAAACY
96942 P C S ATGACGTGGCAGACGTTTGGAATTAGGAATGGAAACY
96942 T T S GTTTGTTTCCATTCCTAATTCCAAATTGGGAGACAAAGAGGATAACATCTTGATGATCTGGCGTG
96942 T C S GTTTGTTTCCATTCCTAATTCCAAACTGGGAGACAAAGAGGATAACATCTTGATGATCTGGCGTG
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96942 IS [TC] AGAAGCTTTGAGGG
96944 I A TGTCATCATGCATCTACCCACGGGGTTGCA
96944 P C A ATGACGTGGCAGACCACGACTGAGCTTTGAGY
96944 P T A CGCGCCGAGGTACGACTGAGCTTTGAGGY
96944 T C A GTCTCCTCAAAGCTCAGTCGTGGCAACCCCGTGGGTAGATGCATGATGACACT
96944 T T A GTCTCCTCAAAGCTCAGTCGTAGCAACCCCGTGGGTAGATGCATGATGACACT
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96944 IS [CT] CTTCATCACAGTC
96945 I A GCCAGTTTTGATGCCCAAGTTTTCGGTAAAA
96945 P C A ATGACGTGGCAGACGGCCTCTCATACAAACY
96945 P T A CGCGCCGAGGTGCCCTCTCATACAAACAY
96945 T C A GCACTGTTTGTATGAGAGGGCGTTTACCGAAAACTTGGGCATCAAAACTGGCAT
96945 T T A GCACTGTTTGTATGAGAGGGCATTTACCGAAAACTTGGGCATCAAAACTGGCAT
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96945 IS [CT] GAATGTAAGCTTT
96950 I S GCTGTGGGAGGAAACGGGAAAGTGACTGGA
96950 P A S CGCGCCGAGGTCATGGGGACAGGGY
96950 P G S ATGACGTGGCAGACCATGGGGACAGGGY
96950 T A S CGACCCCTGTCCCCATGACCAGTCACTTTCCCGTTTCCTCCCCACAGCAG
96950 T G S CGACCCCTGTCCCCATGGCCAGTCACTTTCCCGTTTCCTCCCCACAGCAG
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96950 IS [AG] GACTCAGGTAA
96951 I A GCCCTCGGTAGGTGCTGTGGGCT
96951 P A A CGCGCCGAGGATCTGTGTCCTCTGTCCY
96951 P C A ATGACGTGGCAGACCTCTGTGTCCTCTGTCCY
96951 T A A CTGTGGACAGAGGACACAGATGCCCACAGCACCTACCGAGGGCAT
96951 T C A CTGTGGACAGAGGACACAGAGGCCCACAGCACCTACCGAGGGCAT
TCCCCATTCCCCAGCCTAGATATTCTGCCTCCTGCACATGCCCTCGGTAGGTGCTGTGGGC[AG]TCTGTGTCCTCTGTCCACAGGCACCCTCTTGTATTTTATGCCACAGTGC
96951 IS [AC] TACAACTTCAG
96952 I S TCTGGGCACATTCATTTATATCTGCAGCAGAGGAGAGTAAGC
96952 P A S CGCGCCGAGGTAAATAAGGGATCATGGACAGY
96952 P T S ATGACGTGGCAGACAAAATAAGGGATCATGGACAGY

FIGURE 129C

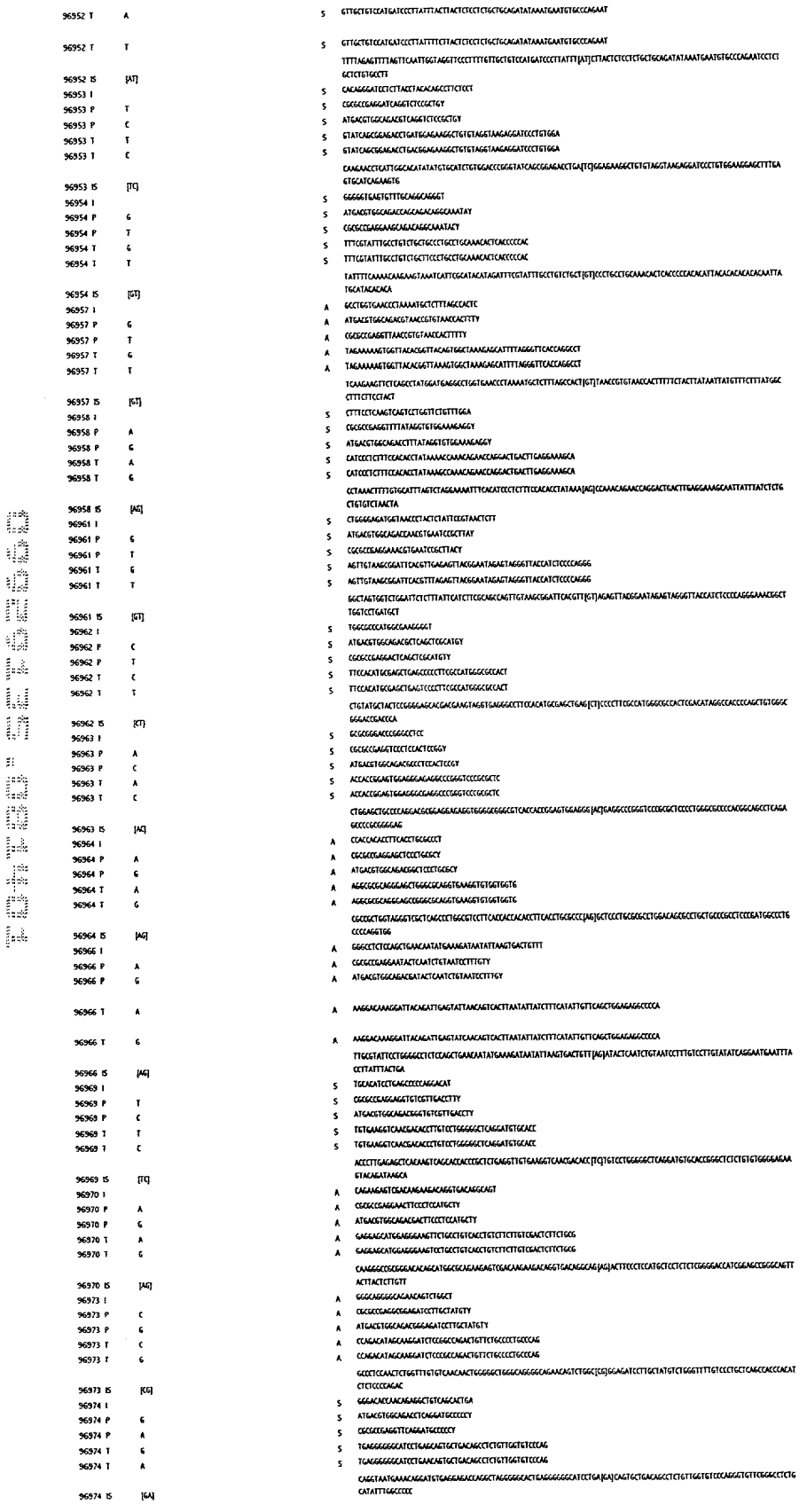

96952 T A
S GTTGCTGTCCATGATCCCTTATTTACTTACTCTCCTCTGCTGCAGATATAAATGAATGTGCCCAGAAT
96952 T T
S GTTGCTGTCCATGATCCCTTATTTTCTTACTCTCCTCTGCTGCAGATATAAATGAATGTGCCCAGAAT
TTTTAGAGTTTAGTTCAATTGGTAGGTTCCCTTTTGTTGCTGTCCATGATCCCTTATTT[AT]CTTACTCTCCTCTGCTGCAGATATAAATGAATGTGCCCAGAATCCTCT
96952 IS [AT] GCTCTGTGCCTT
96953 I
S CACAGGGATCCTCTTACCTACACAGCCCTCTCCT
96953 P T
S CGCGCCGAGGATCAGGTCTCCGCTGY
96953 P C
S ATGACGTGGCAGACGTCAGGTCTCCGCTGY
96953 T T
S GTATCAGCGGAGAGCTGATGCAGAAGGCTGTGTAGGTAAGAGGATCCCTGTGGA
96953 T C
S GTATCAGCGGAGAGCTGACGAGAAGGCTGTGTAGGTAAGAGGATCCCTGTGGA
EAAGAACCTCATTGGCACATATATGTGCATCTGTGGACCCGGGTATCAGCGGAGAGCTGA[TC]GGAGAAGGCTGTGTAGGTAAGAGGATCCCTGTGGAAGGAGCTTTCA
96953 IS [TC] GTGCATCAGAAGTG
96954 I
S GGGGGTGAGTGTTTGCAGGCAGGGT
96954 P G
S ATGACGTGGCAGACCAGCAGACAGGCAAATAY
96954 P T
S CGCGCCGAGGAAGCAGACAGGCAAATACT
96954 T G
S TTTCGTATTTGCCTGTCTGCTGCCCTGCTGCAAACACTCACCCCCAC
96954 T T
S TTTCGTATTTGCCTGTCTGCTTCCCTGCCTGCAAACACTCACCCCCAC
TATTTTCAAAACAAGAAGTAAATCATTCGGCATACATAGATTTCGTATTTGCCTGTCTGCT[GT]CCCTGCCTGCAAACACTCACCCCCACACATTACACACACACACAATTA
96954 IS [GT] TGCATACACACA
96957 I
A GCCTGGTGAACCCTAAAATGCTCTTTAGCCACTC
96957 P G
A ATGACGTGGCAGACGTAACCGTGTAACCACTTTY
96957 P T
A CGCGCCGAGGTTAACCGTGTAACCACTTTTY
96957 T G
A TAGAAAAAGTGGTTACACGGTTACAGTGGCTAAAGAGCATTTTAGGGTTCACCAGGCCT
96957 T T
A TAGAAAAAGTGGTTACACGGTTAAAGTGGCTAAAGAGCATTTTAGGGTTCACCAGGCCT
TCAAGAAGTTCTAGCCTATGGATGAGGCCTGGTGAACCCTAAAATGCTCTTTAGCCACT[GT]TAACCGTGTAACCACTTTTCTACTTATAATTATGTTTCTTTATGGC
96957 IS [GT] CTTTCTTCCTACT
96958 I
S CTTTCCTCAAGTCAGTCCTGGTTCTGTTTGGA
96958 P A
S CGCGCCGAGGTTTTATAGGTGTGGAAAGAGGY
96958 P G
S ATGACGTGGCAGAACCTTTATAGGTGTGGAAAGAGGY
96958 T A
S CATCCCTCTTTCCAACACCTATAAAGCCAAACAGAACCAGGACTGACTTGAGGAAAGCA
96958 T G
S CATCCCTCTTTCCAACACCTATAAAGCCAAACAGAACCAGGACTGACTTGAGGAAAGCA
GCTAAACTTTTGTGGCATTTAGTCTAGGAAAATTTCACATCCCTCTTTCCACACCTATAAA[AG]CCAAACAGAACCAGGACTGACTTGAGGAAAGCAATTATTTATCTCTG
96958 IS [AG] CTGTGTCTAACTA
96961 I
S CTGGGGAGATGGTAACCCTACTCTATTCGGTAACTCTT
96961 P G
S ATGACGTGGCAGACEAACGTGAATCCGCTTAY
96961 P T
S CGCGCCGAGGAAACGTGAATCCGCTTACY
96961 T G
S AGTTGTAAGCGGATTCACGTTGAGAGTTACGGAATAGAGTAGGGTTACCATCTCCCCAGGG
96961 T T
S AGTTGTAAGCGGATTCACGTTTAGAGTTACGGAATAGAGTAGGGTTACCATCTCCCCAGGG
GGCTAGTGGTCTGGATTCTCTTTATTCATCTTCGCAGCCAGTTGTAAGCGGATTCACGTT[GT]AGAGTTAGGGAATAGAGTAGGGTTACCATCTCCCCAGGGAAACGGCT
96961 IS [GT] TGGTCCTGATGCT
96962 I
S TGGCGCCCATGGGCGAAGGGGT
96962 P C
S ATGACGTGGCAGACGCTCAGCTCGCATGY
96962 P T
S CGCGCCGAGGACTCAGCTCGCATGY
96962 T C
S TTCCACATGCGAGCTGAGCCCCCTTCGCCATGGGCGCCACT
96962 T T
S TTCCACATGCGAGCTGAGTCCCCTTCGCCATGGGCGCCACT
CTGTATGCTACTCCCGGGAGCACGACGAAGTAGGTGAGGGCCTTCCACATGCGAGCTGAG[CT]CCCCTTCGCCATGGGCGCCACTCGACATAGGCCACCCCAGCTGTGGGC
96962 IS [CT] GGGACCGACCA
96963 I
S GCGCGGGACCCGGGGCCTCC
96963 P A
S CGCGCCGAGGTCCCTCCACTCCGGY
96963 P C
S ATGACGTGGCAGACGCCCTCCACTCCGY
96963 T A
S ACCACCGGAGTGGAGGGCAGAGCCCGGGTCCCGCGCTC
96963 T C
S ACCACCGGAGTGGAGGGCGAGCCCGGGTCCCGCGCTC
CTGGAGCTGCCCCAGCACGCGGAGGAGAGGTGGGGCGGGCGTCACCACCGGAGTGGAGGG[AC]GAGGCCCGGGTCCCGCGCTCCCCTGGGCGCCCCAGGCAGCCTAGA
96963 IS [AC] GCCCCGCGGGGAG
96964 I
A CCACACACCTTCACCTGCGCCCT
96964 P A
A CGCGCCGAGGAGCTCCCTGCGCY
96964 P G
A ATGACGTGGCAGACGGCTCCCTGCGCY
96964 T A
A AGGCGCGCAGGGAGCTGGGCGCAGGTGAAGGTGTGGTGGTG
96964 T G
A AGGCGCGCAGGGAGCCGGGCGCAGGTGAAGGTGTGGTGGTG
CGCCGCTGGTAGGGTCGCTCAGCCCTGGCGTCCTCACCACACACCTTCACCTGCGCCC[AG]GCTCCCTGCGCGCCTGGACAGCGCCTGCTGCCCGCCTCCCGATGGCCCTG
96964 IS [AG] CCCCAGGTGG
96966 I
A GGGCCTCTCCAGCTGAACAATATGAAGATAATATTAAGTGACTGTTT
96966 P A
A CGCGCCGAGGAATACTCAATCTGTAATCCTTGTY
96966 P G
A ATGACGTGGCAGACGATACTCAATCTGTAATCCTTGY
96966 T A
A AAGGACAAAGGATTACAGATTGAGTATTAACAGTCACTTAATATTATCTTTCATATTGTTCAGCTGGAGAGGCCCCA
96966 T G
A AAGGACAAAGGATTACAGATTGAGTATCAACAGTCACTTAATATTATCTTTCATATTGTTCAGCTGGAGAGGCCCCA
TTGGTATTCCTGGGGGCTCTCCAGCTGAACAATATGAAGATAATATTAAGTGACTGTT[AG]ATACTCAATCTGTAATCCTTTGTCCTTGTATATCAGGAATGAATTTA
96966 IS [AG] CCTTATTTACTGA
96969 I
S TGCACATCCTCAGCCCCCAGGACAT
96969 P T
S CGCGCCGAGGAGGTGTCGTTGACCTTY
96969 P C
S ATGACGTGGCAGACGGGTGTCGTTGACCTY
96969 T T
S TGTGAAGGTCAACGACACCTTGTCCTGGGGGCTCAGGATGTGCACC
96969 T C
S TGTGAAGGTCAACGACACCCTGTCCTGGGGGCTCAGGATGTGCACC
ACCCTTGACAGCTCACAAGTCAGCACCACCCGCTCTCAGGGTTGTGAAGGTCAACGACACC[TC]TGTCCTGGGGGCTCAGGATGTGCACCGGGCTCTCTGTGTGGGGAGAA
96969 IS [TC] GTACAGATAAGCA
96970 I
A CAGAAGAGTCGACAAGAAGACAAGGTGACAGGCAGT
96970 P A
A CGCGCCGAGGAACTTCCCTCCATGCTY
96970 P G
A ATGACGTGGCAGACGACTTCCCTCCATGCTY
96970 T A
A GAGGAGCATGCAGGGAAGTTCTGCCTGTCACCTGTCTTCTTGTCGACTCTTCTGCG
96970 T G
A GAGGAGCATGCAGGGAAGTCCTGCCTGTCACCTGTCTTCTTGTCGACTCTTCTGCG
CAAGGGCCGCGGGACACAGCATGGCGCAGAAGAGTCGACAAGAAGACAGGTGACAGGCAG[AG]ACTTCCCTCCATGCTCCTCTCTCGGGGACCATCGGAGCGGGCAGTT
96970 IS [AG] ACTTACTCTTGTT
96973 I
A GGGCAGGGGCACAACAGTCTGGCT
96973 P C
A CGCGCCGAGGCGGAGATCCTTGCTATGTY
96973 P G
A ATGACGTGGCAGACGGGAGATCCTTGCTATGTY
96973 T C
A CCAGACATAGCAAGGATCTCCGGCCAGACTGTTCTGCCCCTGCCCAG
96973 T G
A CCAGACATAGCAAGGATCTCCCGCCAGACTGTTCTGCCCCTGCCCAG
GCCCTCCAACTCTGGTTTGTGTCAACAACTGGGGGCTGGGCAGGGGCAGAAACAGTCTGGC[CG]GGAGATCCTTGCTATGTCTGGGTTTTGTCCCTGCTCAGCCACCCACAT
96973 IS [CG] CTCTCCCCAGAC
96974 I
S GGGACACCAACAGAGGCTGTCAGCACTGA
96974 P G
S ATGACGTGGCAGACCTCAGGATGCCCCCY
96974 P A
S CGCGCCGAGGTTCAGGATGCCCCCY
96974 T G
S TGAGGGGGGCATCCTCAGCAGTGCTGACAGCCTCTGTTGGTGTCCCAG
96974 T A
S TGAGGGGGGCATCCTGAACAGTGCTGACAGCCTCTGTTGGTGTCCCAG
CAGCTAATGAAACAGGATGTGAGGAGACAGGCTAGGGGGCACTGAGGGGGGCATCCT GA[GA]CAGTGCTGACAGCCTCTGTTGGTGTCCCAGGGTGTTCGGGCCTCTG
96974 IS [GA] CATATTTGGCCCCC

FIGURE 129C

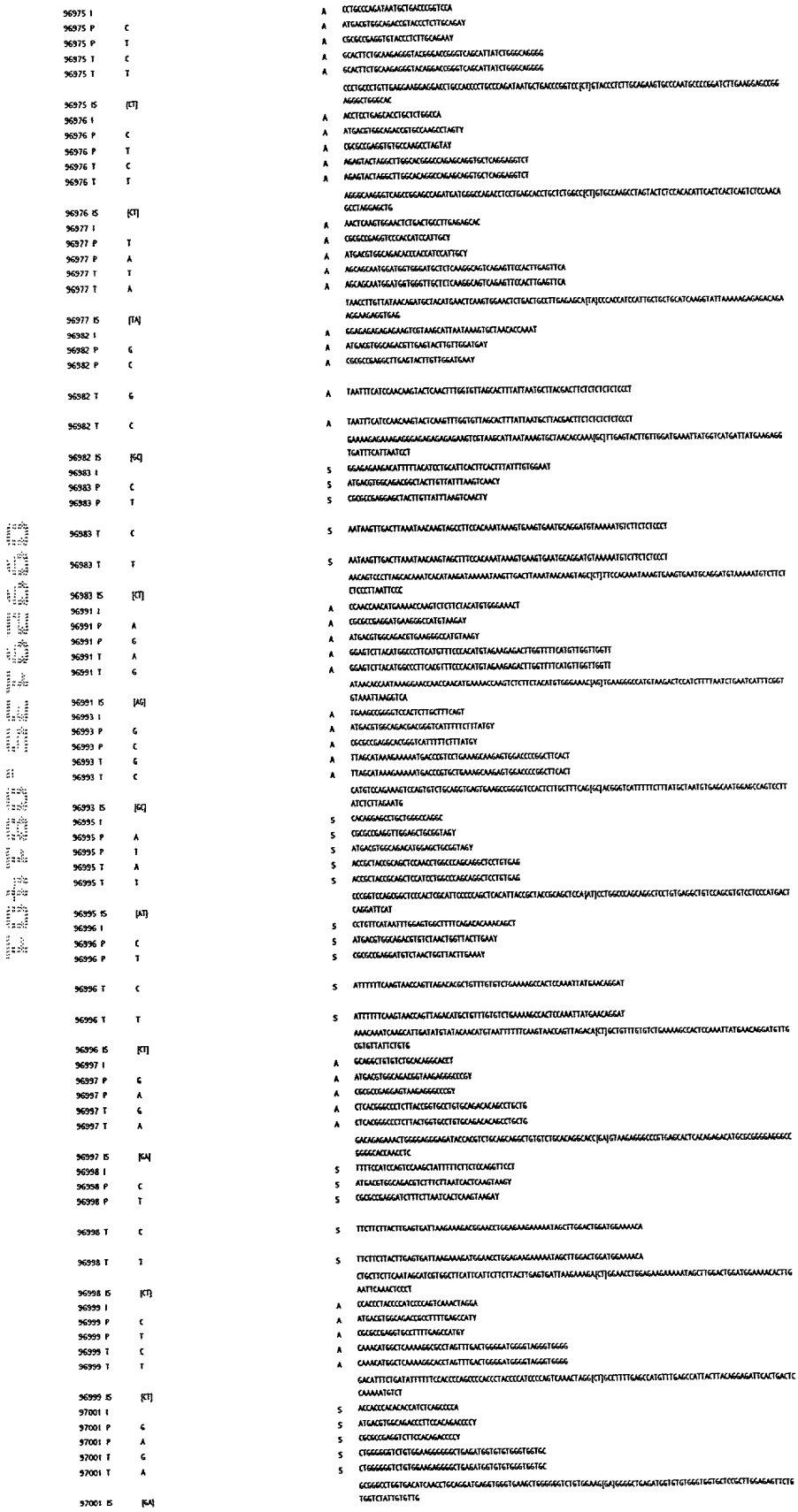
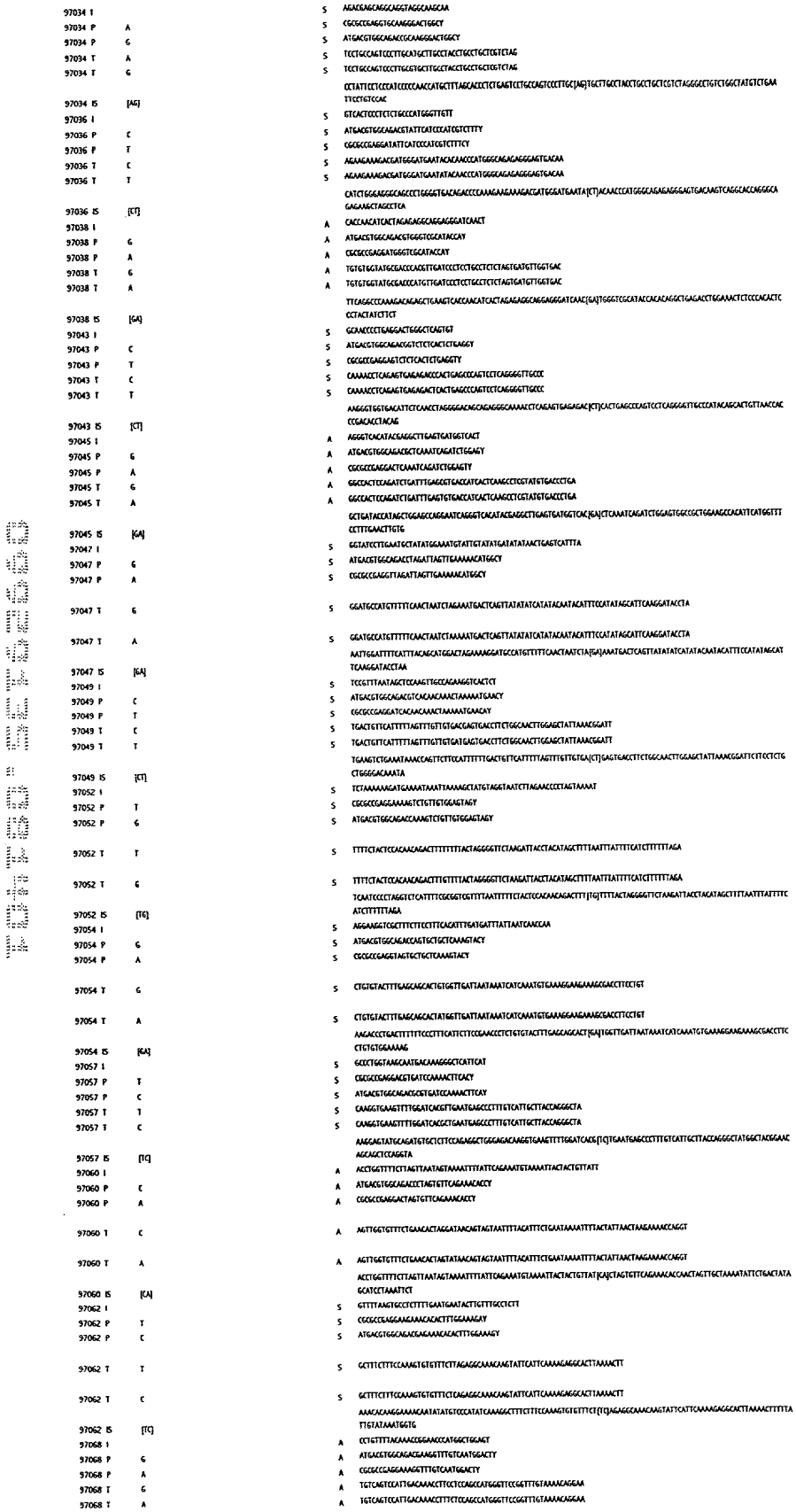
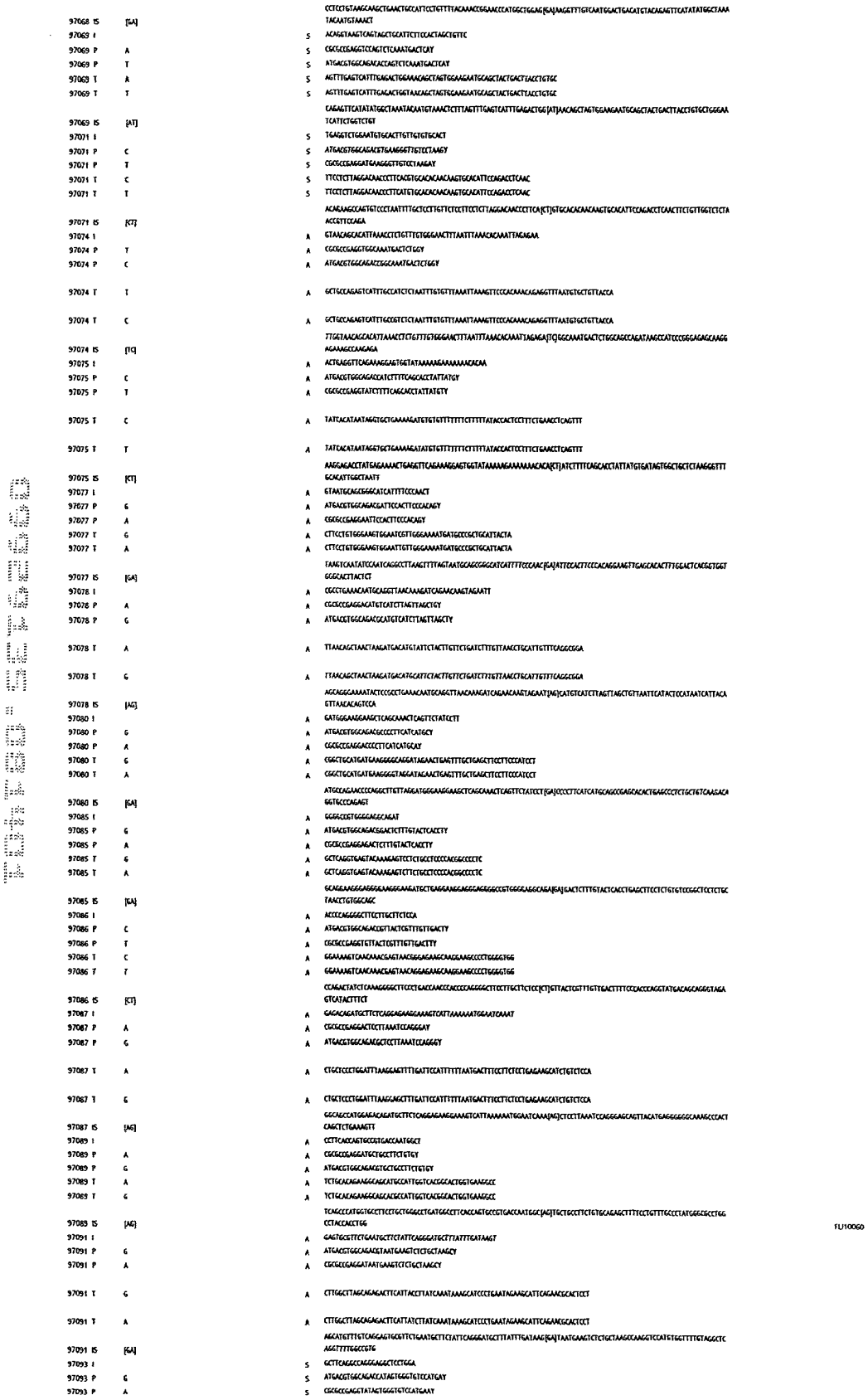


FIGURE 129C

97002 I		S	GCCCAGGGACCCAGGAGTCAGGGT	
97002 P	T	S	CGCGCCGAGGACCAGGTGCTACCAGT	
97002 P	G	S	ATGACGTGGCAGACCCCAGGTGCTACCAGY	
97002 T	T	S	GCATCTGGTAGCACCTGGTCCCTGACTCCTGGGTCCCTGGGCCT	
97002 T	G	S	GCATCTGGTAGCACCTGGGCCCTGACTCCTGGGTCCCTGGGCCT	
97002 IS	[TG]		GTTGAGGCACAGAGAAGACAGCAGCAACACGAGTCGGAGCAAGCATCTGGTAGCACCTGG[TG]CCCTGACTCCTGGGTCCCTGGGCCTGCCTGGATTGGTTTCTCAGCCCCATCTTGGCTICT	
97003 I		A	GGAACTGCAGACAGATGGAAATAGATAAAAATTTACCATCTATCACAAGCGT	
97003 P	C	A	ATGACGTGGCAGACCCCCTCTTCCACAGAAAY	
97003 P	A	A	CGCGCCGAGGACCCTCTTCCACAGAAAY	
97003 T	C	A	TAATTTTCTGTGGAAGAGGGGCGCTGTGATAGATGGTAAATTTTTATCTATTTCCATCTCTCTGCAGTTCCCG	
97003 T	A	A	TAATTTTCTGTGGAAGAGGGTGGCTTGTGATAGATGGTAAATTTTTATCTATTTCCATCTCTCTGCAGTTCCCG	
97003 IS	[CA]		GGTTCCACGGGAACTGCAGAGAGATGGAAATAGATAAAAATTTACCATCTATCACAAGG[CA]CCCTCTTCCACAGAAAATTACCAAAAGGGTGGCATGAAAGTGGGGTCAGAATCGAACCTCA	
97004 I		S	CGATTCTGACCCCACTTTCATGCCACCCTTTTGT	
97004 P	C	S	ATGACGTGGCAGACGTAATTTTCTGTGGAAGAGGGY	
97004 P	T	S	CGCGCCGAGGATAATTTTCTGTGGAAGAGGGY	
97004 T	C	S	GCGCCCCTCTTCCACAGAAAATTACCAAAAGGGTGCCATGAAAGTGGGGTCAGAATCGAC	
97004 T	T	S	GCGCCCCTCTTCCACAGAAAATTATCAAAAGGGTGCCATGAAAGTGGGGTCAGAATCGAC	
97004 IS	[CT]		AGATGGAAATAGATAAAAATTTACCATCTATCACAAGCGCCCCTCTTCCACAGAAAATTA[CT]CAAAAGGGTGGCATGAAAGTGGGGTCAGAATCGACCTCAGTTCCGCAGGATGAAGGTGAC	
97009 I		A	TCTTATCTCACCCCACACCCAGCCATCTT	
97009 P	A	A	CGCGCCGAGGATGAGCATGGATTAGTTTATTAAGY	
97009 P	G	A	ATGACGTGGCAGACGTGAGCATGGATTAGTTTATTAAGY	
97009 T	A	A	TTAACTTAATAAACTAATCCATGCTCATAGATGGCTGGGTGTGGGGGGTGAGATAAGAAC	
97009 T	G	A	TTAACTTAATAAACTAATCCATGCTCACAGATGGCTGGGTGTGGGGGGTGAGATAAGAAC	
97009 IS	[AG]		CTCTTTGTGGCACAAGAACTCTGGGATGGGTTCTTATCTCACCCCACACCCAGCCATCT[AG]TGAGCATGGATTAGTTTATTAAGTTAATACACTGTAGACTTGACTCTGACTTGTCAGAGG	
97011 I		A	CCCCAGCCCTCACCTGCCCCT	
97011 P	G	A	ATGACGTGGCAGACGTGGGTCCATGAGCAY	
97011 P	A	A	CGCGCCGAGGATGGGTCCATGAGCAY	
97011 T	G	A	GAAGTGCTCATGGACCCACGGGGCAGGTGAGGGCTGGGGGTG	
97011 T	A	A	GAAGTGCTCATGGACCCATGGGGCAGGTGAGGGCTGGGGGTG	
97011 IS	[GA]		TGAAGAGCCTTCTGGGATAAACCCTGGGTTCAGCCTGGCAACCCACAGCCCTCACCTGCCCC[GA]TGGGTCCATGAGCACTTCCCACCATTGAGGCATGTGTTCTGGCTGCAGTAGTCACTGTGG	
97013 I		S	GGCCTGTGAACATGCCCAAGATTGTTTTTAGTTTCCCT	
97013 P	G	S	CGCGCCGAGGCCACAGCTAGCTTTCCY	
97013 P	C	S	ATGACGTGGCAGACGCACAGCTAGCTTTCCY	
97013 T	G	S	CATTGGAAAAGCTAGCTGTGGGGGAAACTAAAAACAATCTTGGGCATGTTCACAGGCCTT	
97013 T	C	S	CATTGGAAAAGCTAGCTGTGCGGGAAACTAAAAACAATCTTGGGCATGTTCACAGGCCTT	
97013 IS	[GC]		GTACAGGAATGGTATCACCTTAGGGTATTGTGTTCTCTCACATTTGGAAAAGCTAGCTGTG[GC]GGCAAACTAAAAACAATCTTGGGCATGTTCACAGGCCTTATCAAAGAAGAGTCTTATATG	
97014 I		S	TCTTACCTCTCTTCAGGTAAGCCTATGATTAATTAACTCTATATATAATAACCAATTTTT	
97014 P	C	S	ATGACGTGGCAGACGTTATTTTTCCTCCCAGAGGY	
97014 P	G	S	CGCGCCGAGGCTTATTTTTCCTCCCAGAGGY	
97014 T	C	S	TCCTCCTCTGGGAGGAAAAATAACAAAATTGGTTATTATATAGAGTTAATTAATCATAGGCTTACCTGAAGAGAGGTAAGAAT	
97014 T	G	S	TCCTCCTCTGGGAGGAAAAATAAGAAAATTGGTTATTATATAGAGTTAATTAATCATAGGCTTACCTGAAGAGAGGTAAGAAT	
97014 IS	[CG]		AGTCCACTTATAATCATCATCTTGAAAAATTTAATTCCTCCTCTGGGAGSAAAAATAA[CG]AAAATTGGTTATTATATAGAGTTAATTAATCATAGGCTTACCTGAAGAGAGGTAAGAATG	
97018 I		A	GAGGCAGCAGAGCCACAGGCCCA	
97018 P	T	A	CGCGCCGAGGTCTGCACCCTCACCY	
97018 P	C	A	ATGACGTGGCAGACCCTGCACCCTCACCY	
97018 T	T	A	CAATGGTGAGGGTGCAGAGGGCCTGTGGCTCTGCTGCCTCTG	
97018 T	C	A	CAATGGTGAGGGTGCAAGGGGCCTGTGGCTCTGCTGCCTCTG	
97018 IS	[TC]		GTGTCTGTGCAGACCCCCTCTGTGGGGCCTGGGCGACAGAGGCAGCAGAGCCACAGGCCC[TC]CTGCACCCTCACCATTGCCCTGGCCCCACCCAGCCCTAGAGAGATTTGCACGTTAGAA	
97019 I		S	GCTAGGACCCCAGGAGTTCAGTGCTCCAT	
97019 P	C	S	ATGACGTGGCAGACGAGTCTGGGGCCTGY	
97019 P	T	S	CGCGCCGAGGAAGTCTGGGGCCTGY	
97019 T	C	S	AGGTCAGGCCCCAGACTCTGGACACTGAACTCCTGGGGTCCTAGCAG	
97019 T	T	S	AGGTCAGGCCCCAGACTTTGGACACTGAACTCCTGGGGTCCTAGCAG	
97019 IS	[CT]		CCAGCCACAATACTCACCTCTCCCTGGAACTGGAACACGGGCTAGCTCAGCCCCCAGACT[CT]TGGAGCACTGAACTCCTGGGGTCCTAGCAGGGGTCTCACAGGTTCAGTCAGGAGAGAAGA	
97022 I		S	CAGATTAATTTTATCTGAAAATAAAGATTACATTTTCTTTTTCTTGTATTAGTTGTTGAAT	
97022 P	G	S	ATGACGTGGGAGACCTTTCACCCTTGCCTCY	
97022 P	T	S	CGCGCCGAGGATTTCACCCTTGCCTCAY	
97022 T	G	S	CTTTTGAGGCAAGGGTGAAAGTTCAACAACTAATACAGAAAAAGAAAATGTAATCTTTATTTTCAGATAAAATTAATCTG	
97022 T	T	S	CTTTTGAGGCAAGGGTGAAATTTCAACAACTAATACAGAAAAAGAAAATGTAATCTTTATTTTCAGATAAAATTAATCTG	
97022 IS	[GT]		TGTATGGACATACGTCCACTACCTAGTGTTTGGACCCTCTCTTTTGAGGCAAGGGTGAAAG[GT]TTCAACAACTAATACAGAAAAAGAAAATGTAATCTTTATTTTCAGATAAAATTAATCTG	
97024 I		S	ACGAAGGCCTAATGGTTTTGAAAATGAACTCAAATAAAAGATTATTACCAAATGTGACT	
97024 P	C	S	ATGACGTGGCAGACGATTCAAGCTCATTATTCTACATCY	
97024 P	T	S	CGCGCCGAGGAATTCAAGCTCATTATTCTACATCY	
97024 T	C	S	AAAGCATGTAGAATAATGAGCTTGAATCGTCACATTTGGTAATAATCTTTTATTTGAGTTCATTTTCAAAACCATTAGGCCTTCGTAG	
97024 T	T	S	AAAGGATGTAGAATAATGAGCTTGAATTGTCACATTTGGTAATAATCTTTTATTTGAGTTCATTTTCAAAACCATTAGGCCTTCGTAG	
97024 IS	[CT]		TGGTTCTTGCTAAAGTGGATATTTCTATGGTGAAAAGGATGTAGAATAATGAGCTTGAAT[CT]GTCACATTTGGTAATAATCTTTTATTTGAGTTCATTTTCAAAACCATTAGGCCTTCGTAG	
97025 I		A	GCGTTCCCACCTTTTCAGGGGTGGACT	
97025 P	A	A	CGCGCCGAGGATTCTTCACATTTCCCAGGY	
97025 P	G	A	ATGACGTGGCAGACGTTCTTCACATTTCCCAGGY	
97025 T	A	A	CTAACCTGGGAAATGTGAAGAATGTCCACCCCTGAAAAGGTGGGAACGCCA	
97025 T	G	A	CTAACCTGGGAAATGTGAAGAACGTCCACCCCTGAAAAGGTGGGAACGCCA	
97025 IS	[AG]		CCTCCAAGGGATGATGCCTTAACAGTGGGCTTTGCGTTCCCACCTTTTCAGGGGTGGAC[AG]TTCTCACATTTCCCAGGTTAGCACCCTAGCCTGGAAGCAGCACCCAGCTCTGCTGGA	
97027 I		A	CCTCCCTGTGAGGGGCTGACGCA	
97027 P	C	A	ATGACGTGGCAGACCGATACCAACCTTTACCCT	
97027 P	T	A	CGCGCCGAGGTGATACCAACCTTTACCCCY	
97027 T	C	A	TGAGGGGGTAAAGGTTGGTATCGGCGTCAGCCCCTCACAGGGAGGCT	
97027 T	T	A	TGAGGGGGTAAAGGTTGGTATCAGCGTCAGCCCCTCACAGGGAGGCT	
97027 IS	[CT]		GCCCAAAGCCCAGGGAAGCTCCTGAGTGCCACCTCCAGCCTCCCTGTGAGGGGCTGACGC[CT]GATACCAACCTTTACCCCCTCACTCCCTTGGACGTCCCTCAGGGCCAAGCCACAGACATT	




97068 IS [GA]
97069 I
97069 P A
97069 P T
97069 T A
97069 T T
97069 IS [AT]
97071 I
97071 P C
97071 P T
97071 T C
97071 T T
97071 IS [CT]
97074 I
97074 P T
97074 P C
97074 T T
97074 T C
97074 IS [TC]
97075 I
97075 P C
97075 P T
97075 T C
97075 T T
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97077 T A
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97078 T G
97078 IS [AG]
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97080 P G
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97089 T G
97089 IS [AG]
97091 I
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97091 T A
97091 IS [GA]
97093 I
97093 P G
97093 P A

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FIGURE 129C

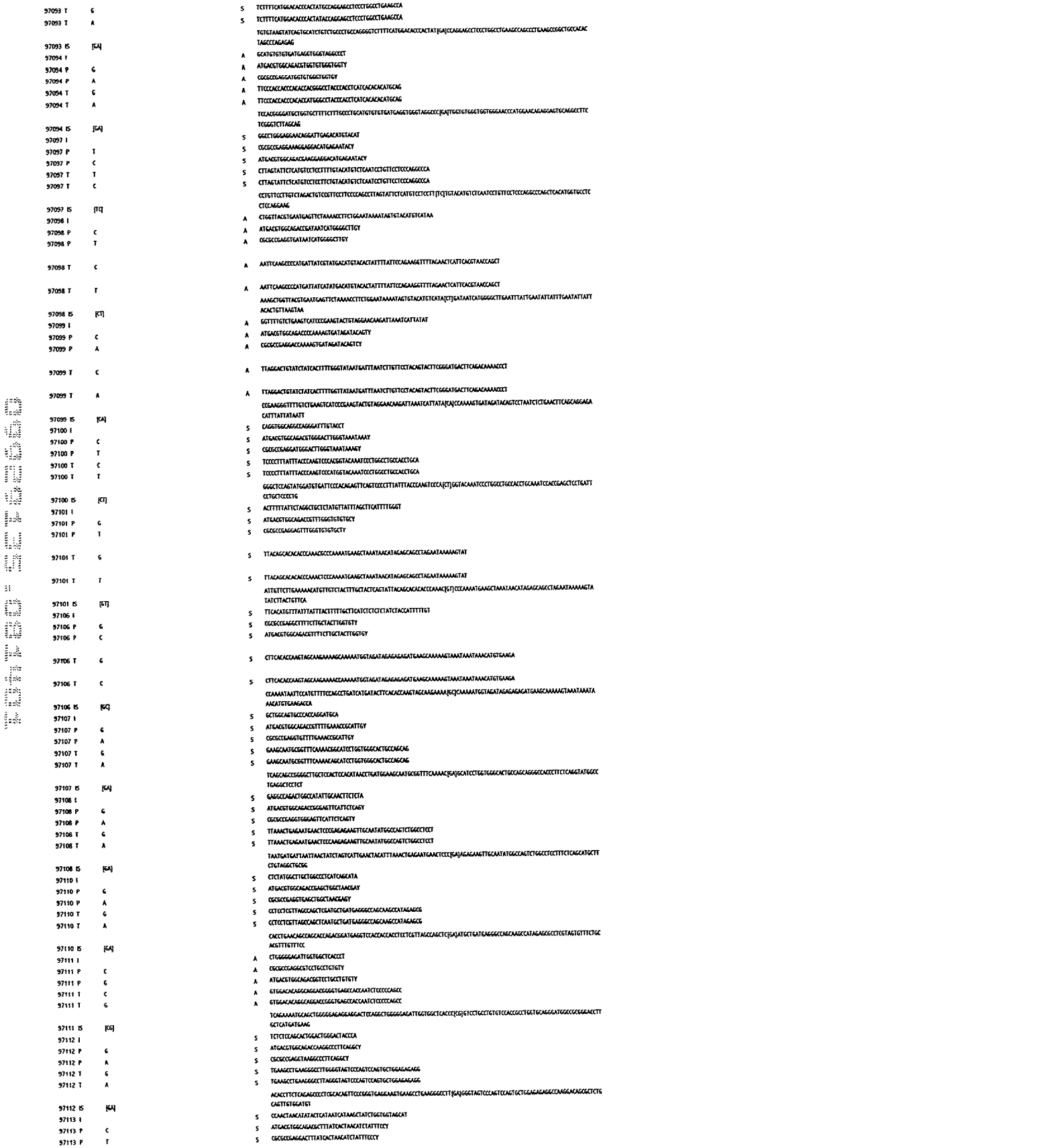




FIGURE 129C

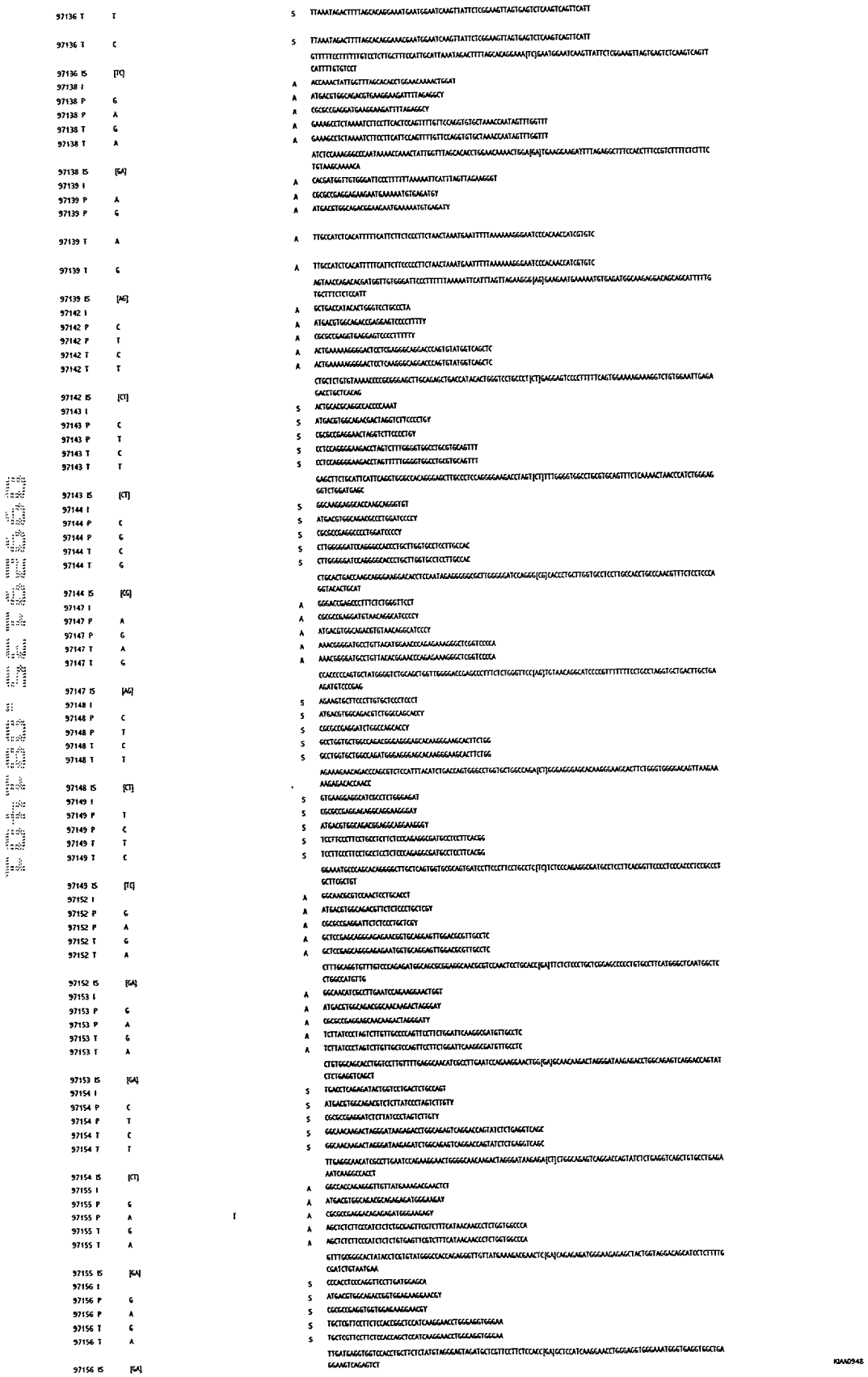


FIGURE 129C

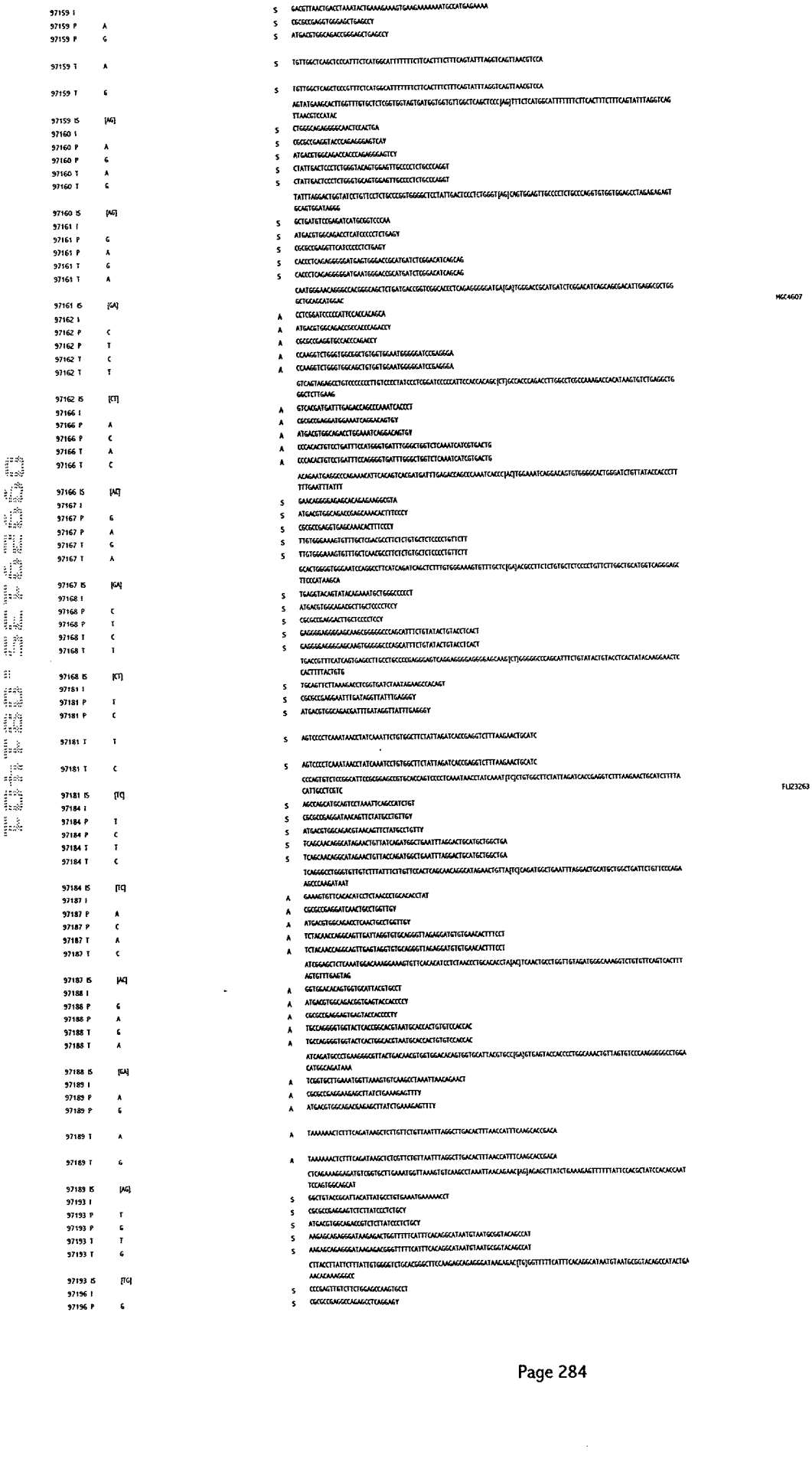


FIGURE 129C

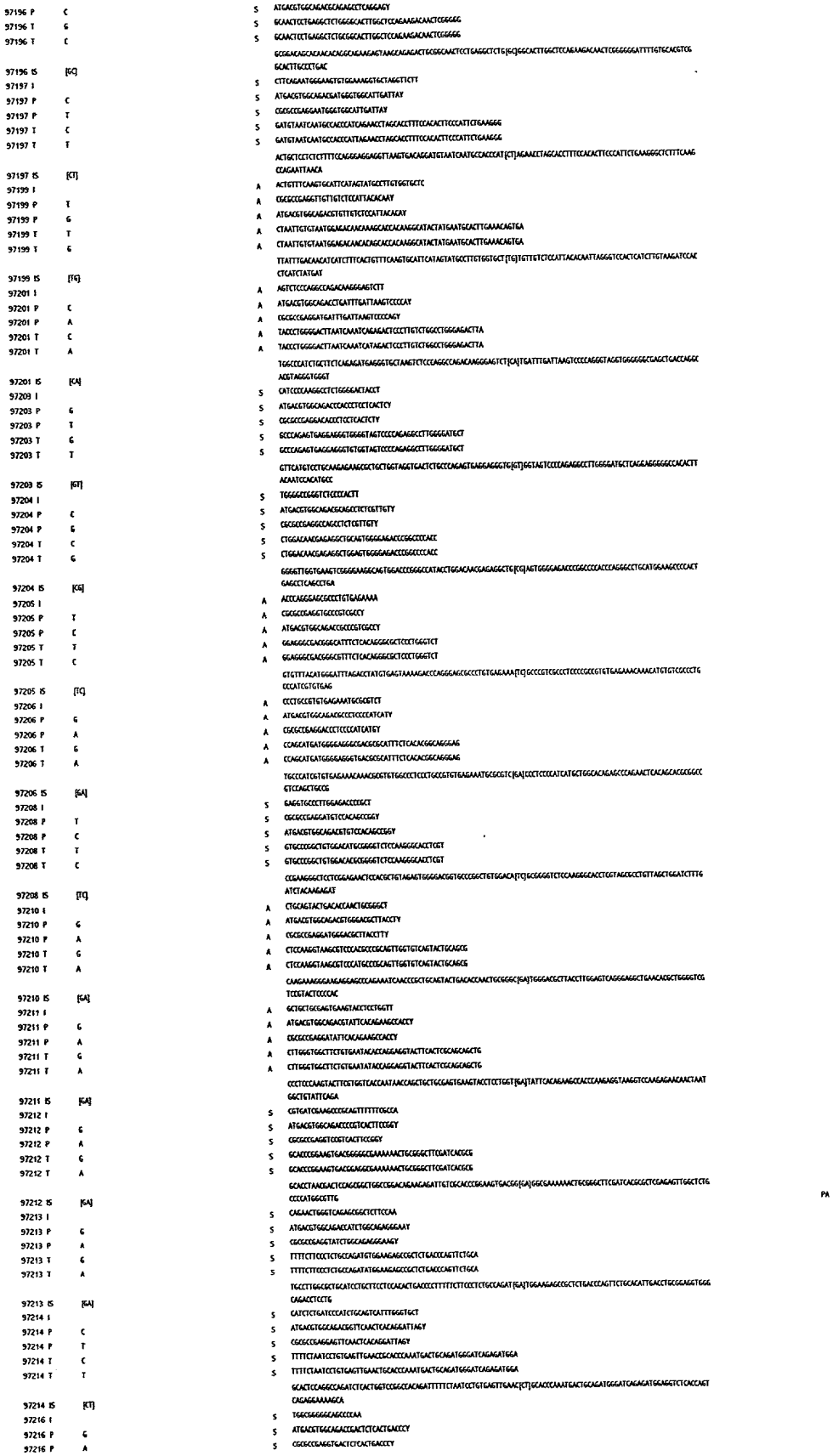


FIGURE 129C

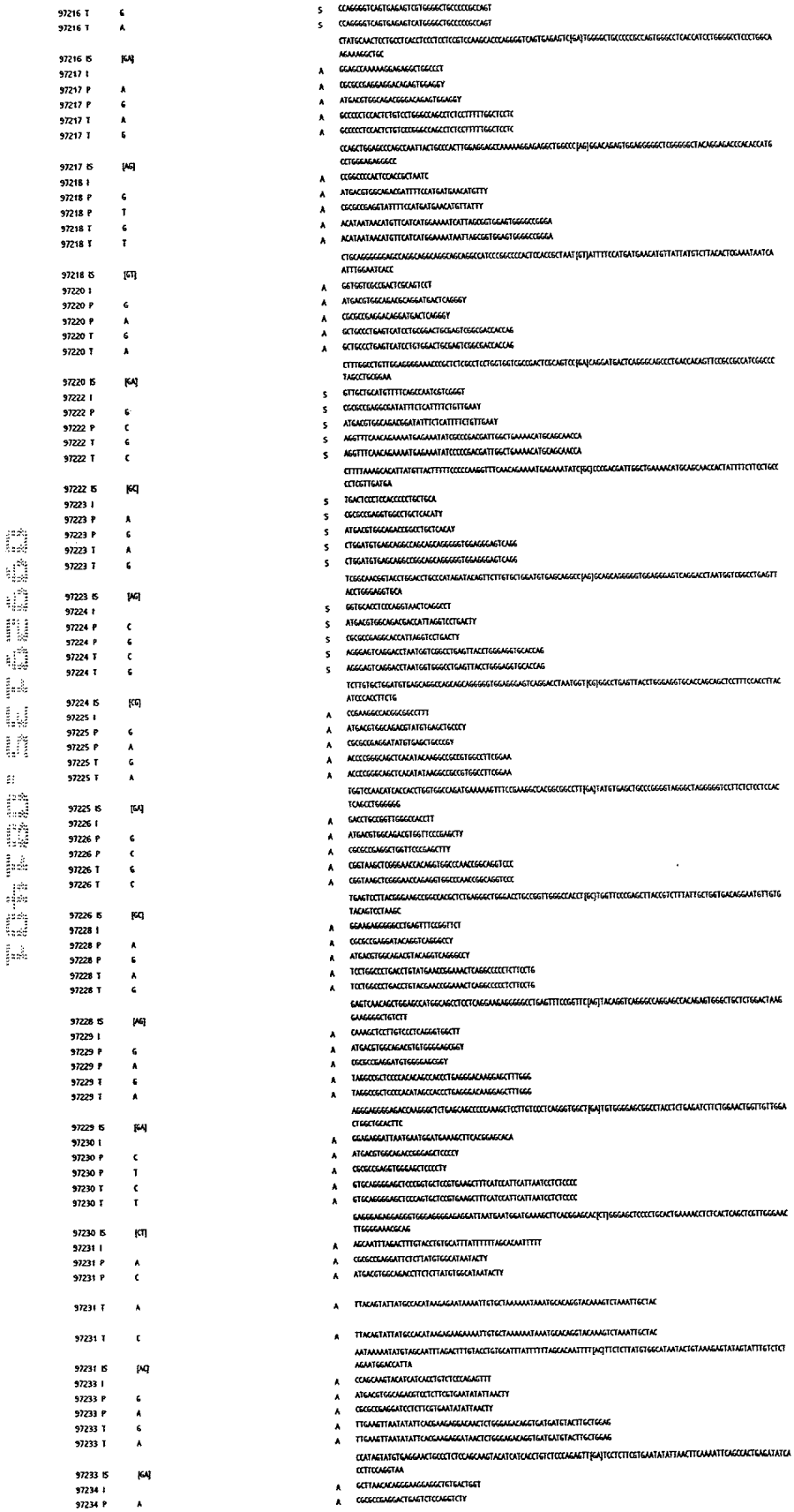
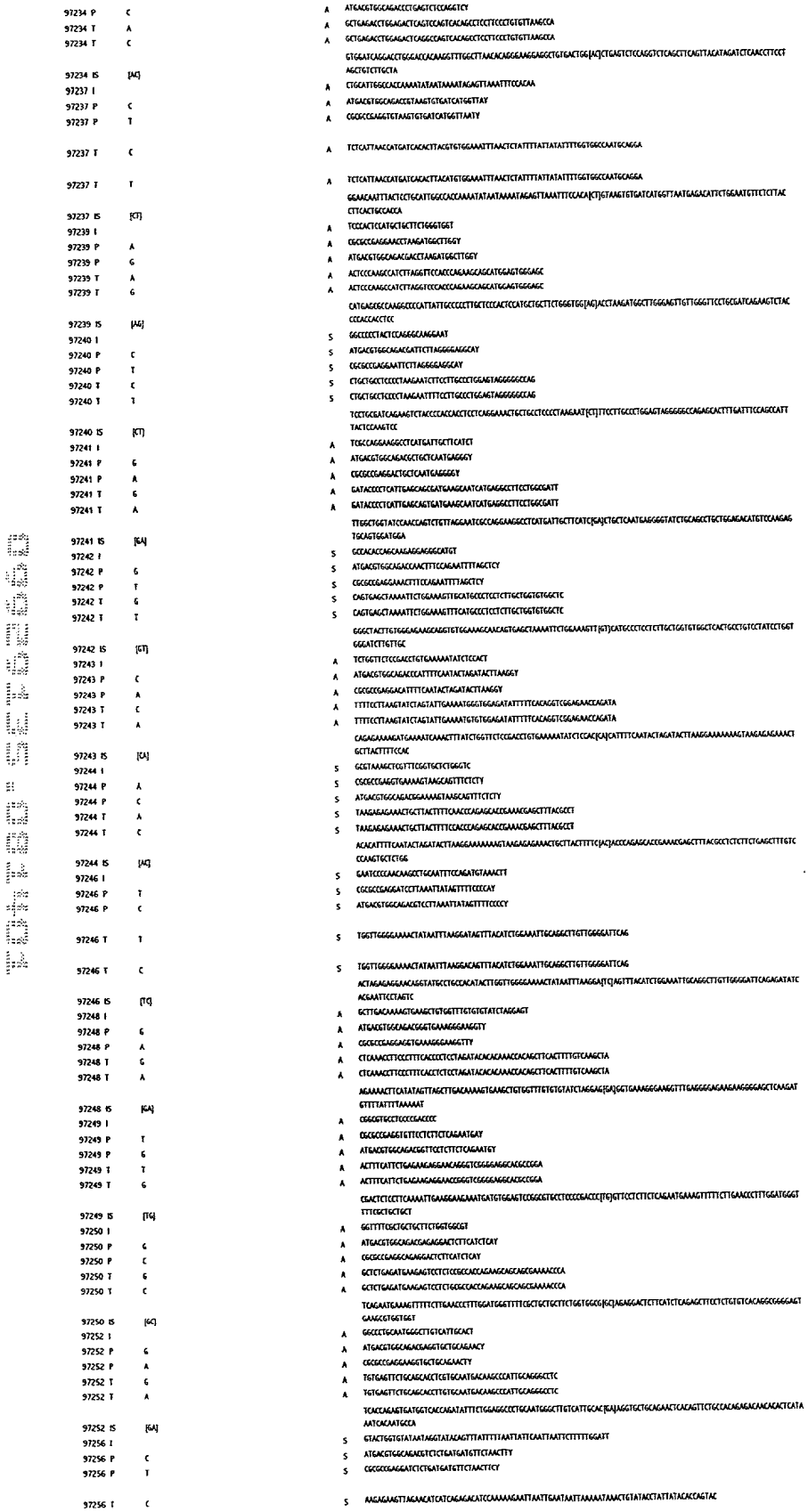


FIGURE 129C

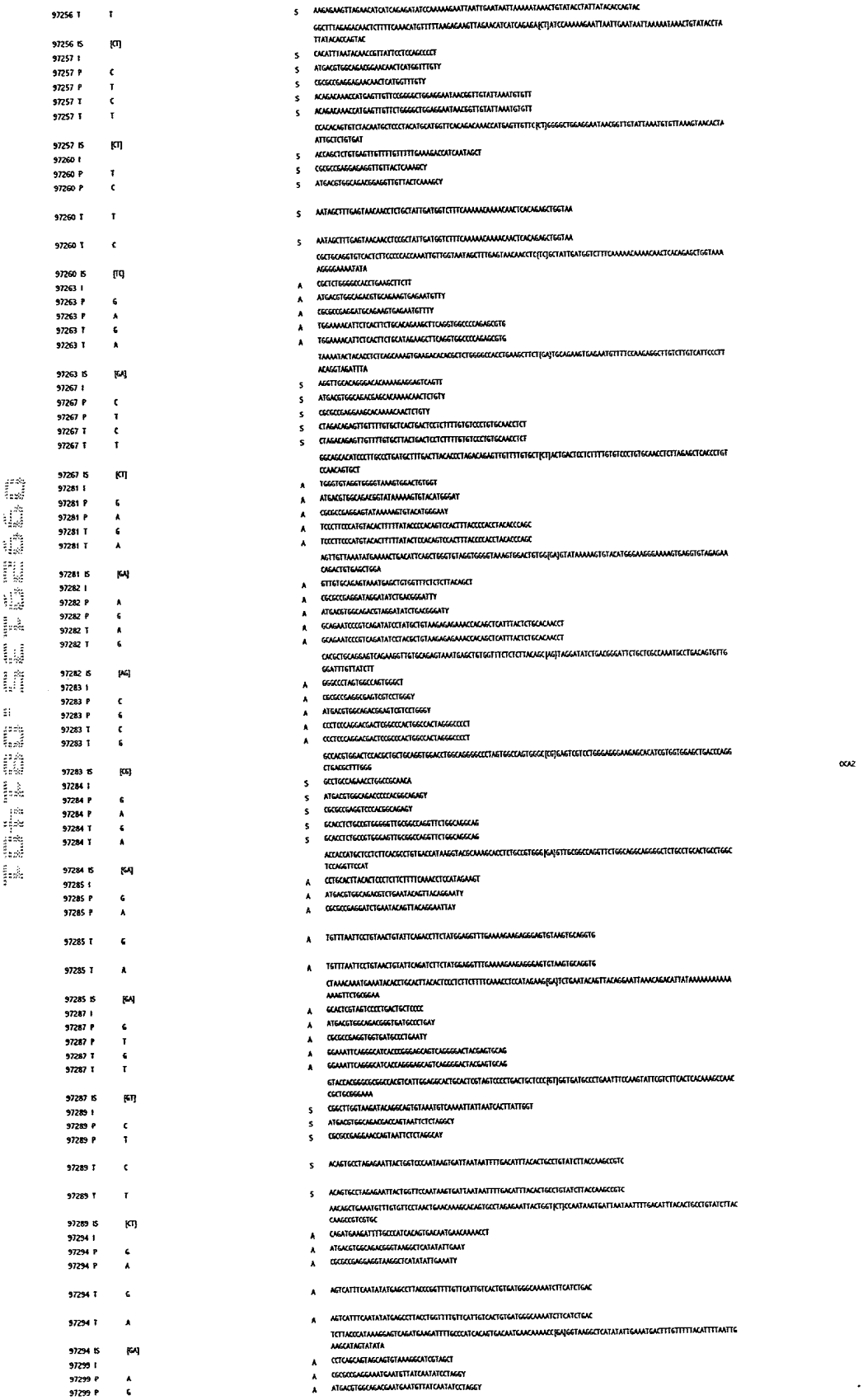


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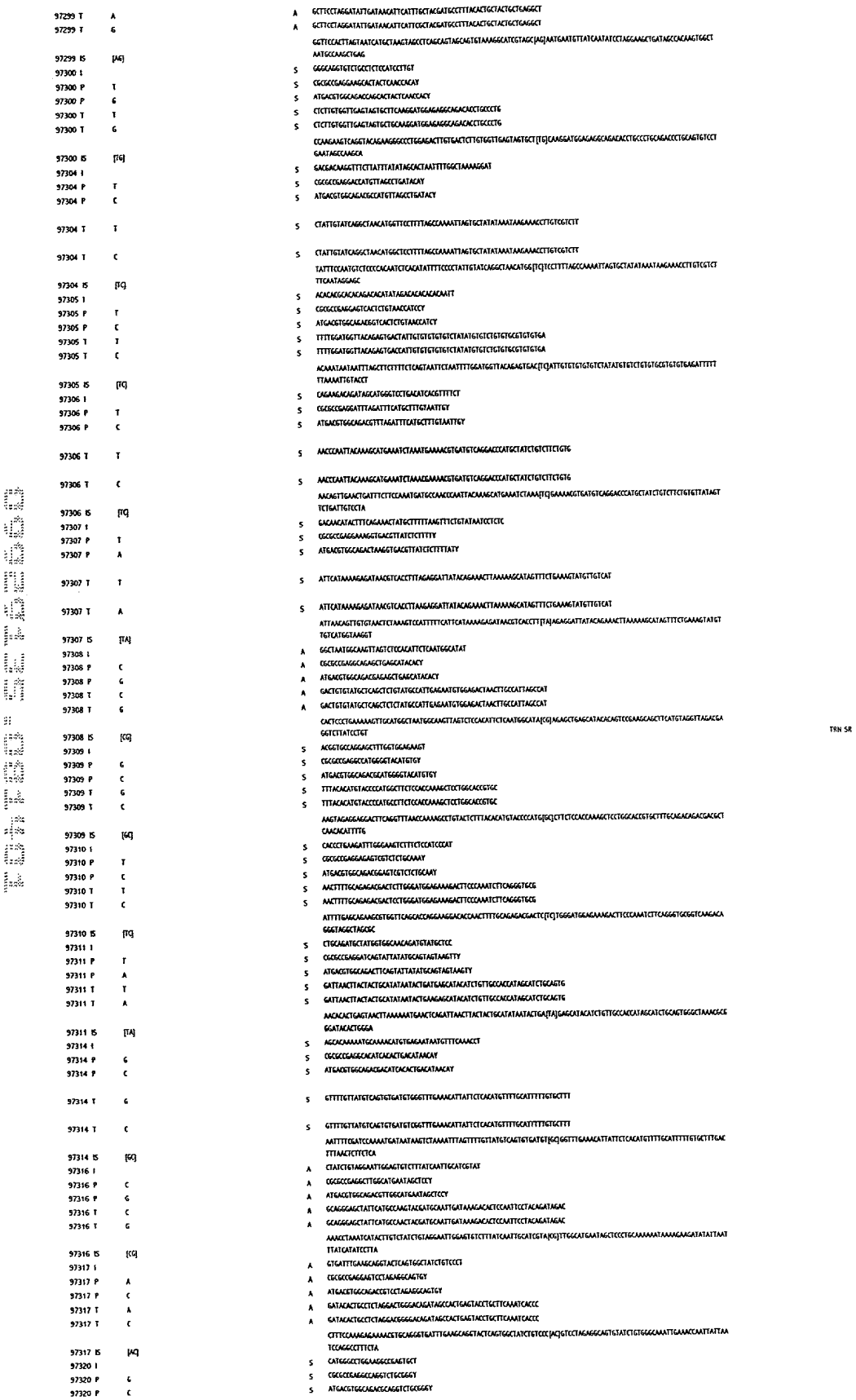
US-116KD

PLEK

FIGURE 129C



OCA2


97299 T A
97299 T G
97299 IS [AG]
97300 I
97300 P T
97300 P G
97300 T T
97300 T G
97300 IS [TG]
97304 I
97304 P T
97304 P C
97304 T T
97304 T C
97304 IS [TC]
97305 I
97305 P T
97305 P C
97305 T T
97305 T C
97305 IS [TC]
97306 I
97306 P T
97306 P C
97306 T T
97306 T C
97306 IS [TC]
97307 I
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97308 IS [CG]
97309 I
97309 P G
97309 P C
97309 T G
97309 T C
97309 IS [GC]
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97310 P T
97310 P C
97310 T T
97310 T C
97310 IS [TC]
97311 I
97311 P T
97311 P A
97311 T T
97311 T A
97311 IS [TA]
97314 I
97314 P G
97314 P C
97314 T G
97314 T C
97314 IS [GC]
97316 I
97316 P C
97316 P G
97316 T C
97316 T G
97316 IS [CG]
97317 I
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97317 T C
97317 IS [AC]
97320 I
97320 P G
97320 P C

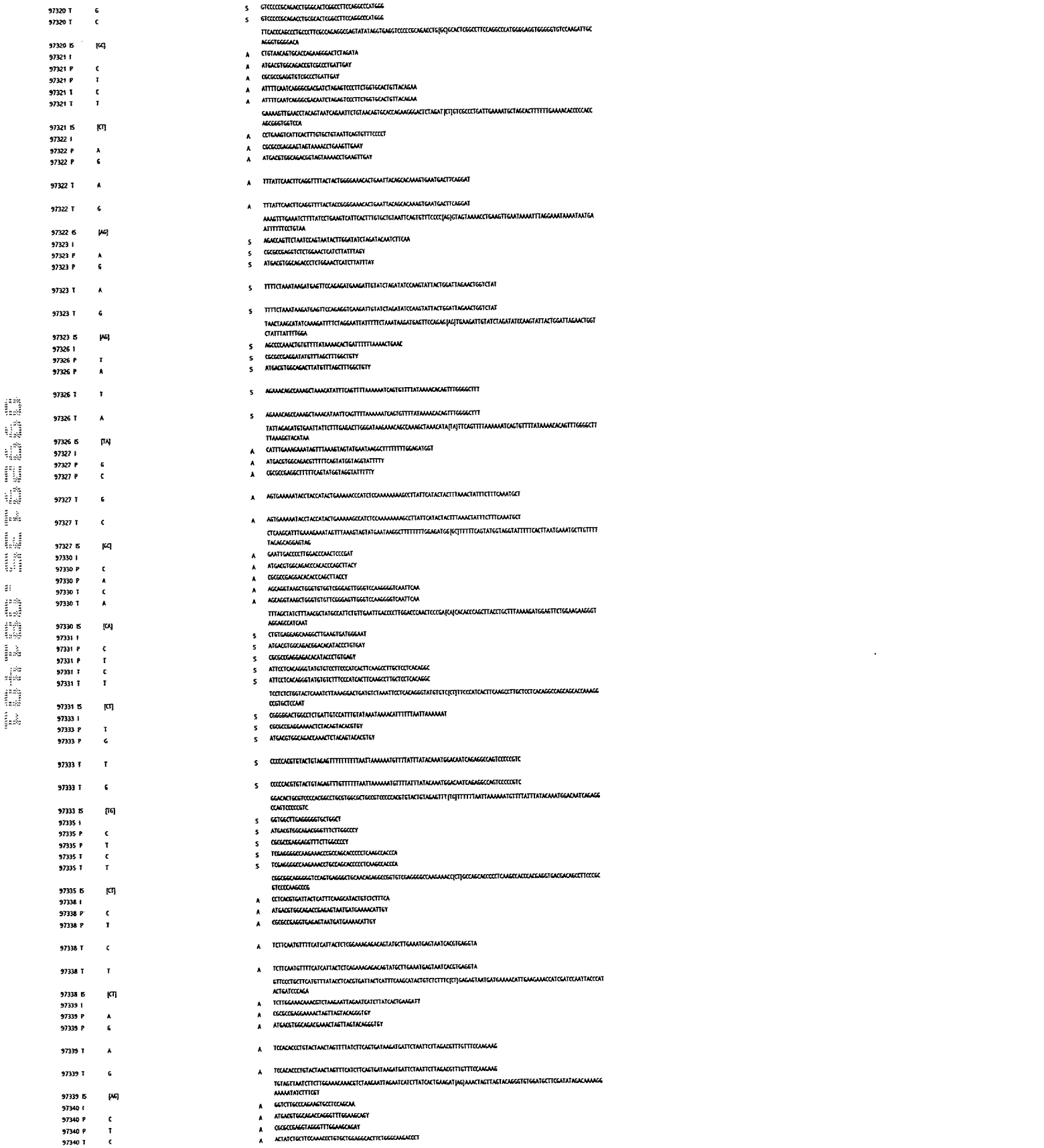
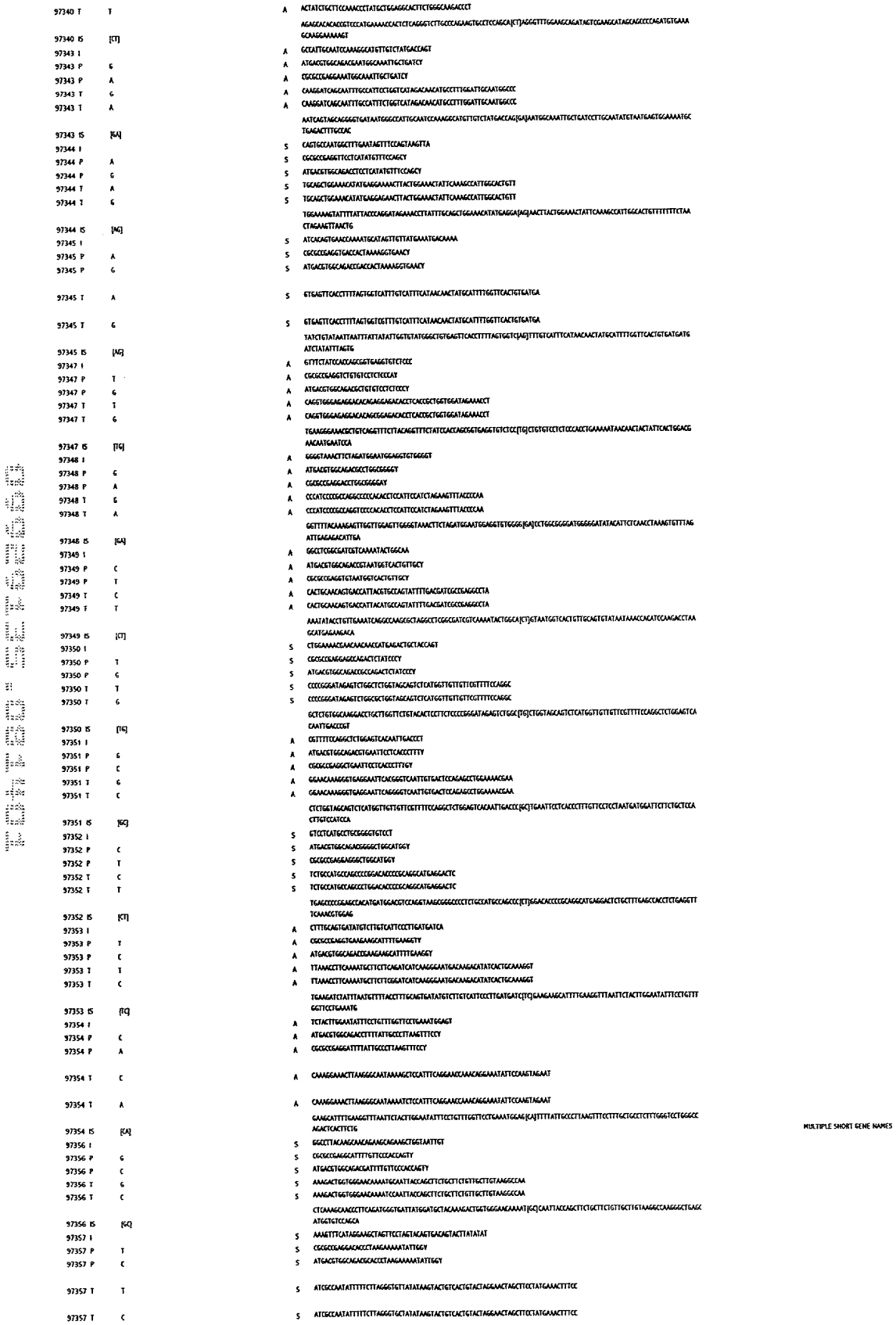


FIGURE 129C



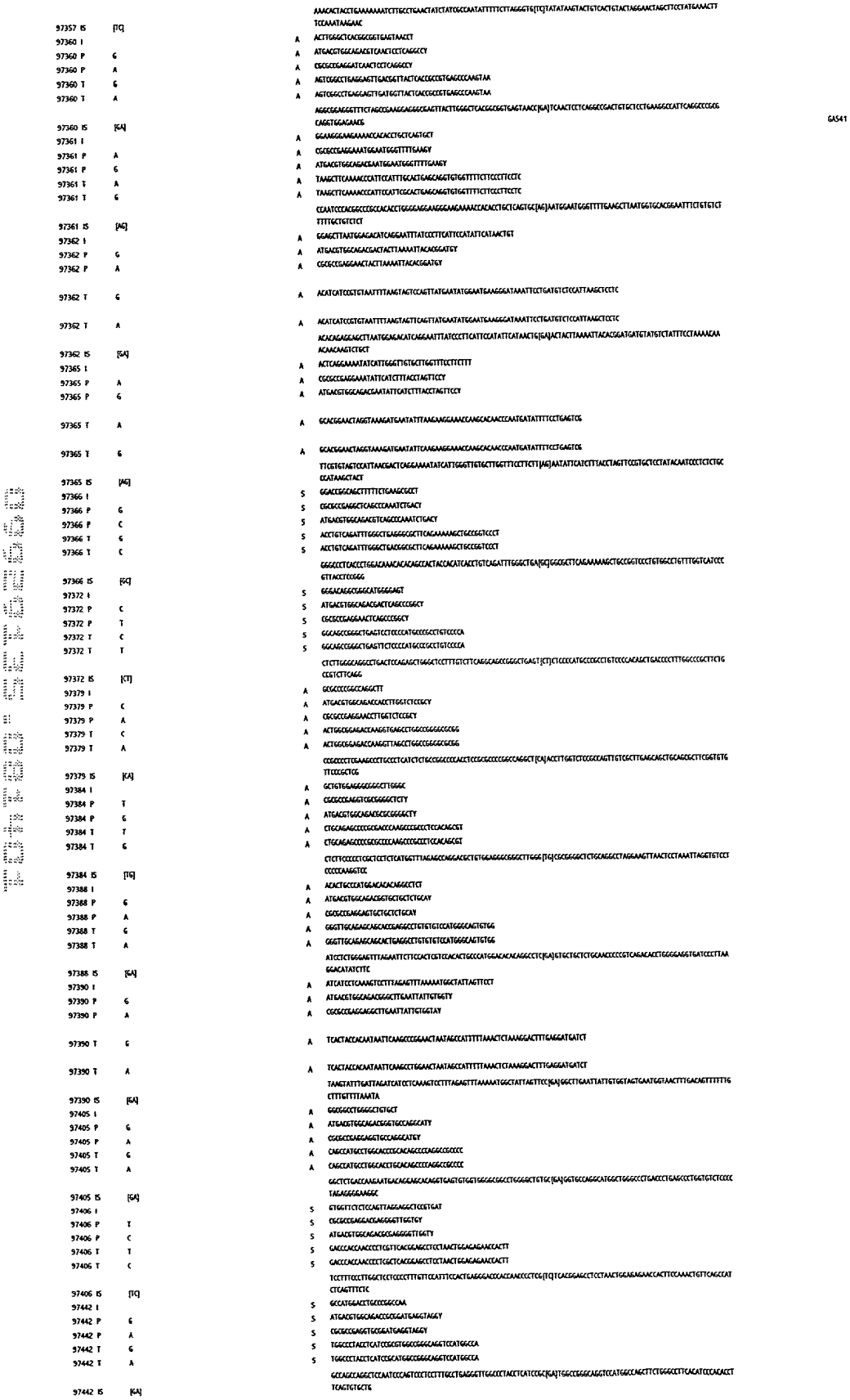

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TCCAAATAAGAAC
97357 IS [TC]
97360 I
A ACTTGGGCTCACGGCGGTGAGTAACCT
97360 P G
A ATGACGTGGCAGACGTCAACTCCTCAGGCCY
97360 P A
A CGCGCCGAGGATCAACTCCTCAGGCCY
97360 T G
A AGTCGGCCTGAGGAGTTGACGGTTACTCACCGCCGTGAGCCCAAGTAA
97360 T A
A AGTCGGCCTGAGGAGTTGATGGTTACTCACCGCCGTGAGCCCAAGTAA
AGGCGGAAGGTTTCTAGCCGAAGGAGGGCGAGTTACTTGGGCTCACGGCGGTGAGTAACC[GA]TCAACTCCTCAGGCCGACTGTGCTCCTGAAGGCCATTCAGGCCCGCG
CAGGTGGAGAACG
97360 IS [GA]
GAS41
97361 I
A GGAAGGGAAGAAAACCACACCTGCTCAGTGCT
97361 P A
A CGCGCCGAGGAAATGGAATGGGTTTTGAAGY
97361 P G
A ATGACGTGGCAGACGAATGGAATGGGTTTTGAAGY
97361 T A
A TAAGCTTCAAAACCCATTCCATTTGCACTGAGCAGGTGTGGTTTTCTTCCCTTCCTC
97361 T G
A TAAGCTTCAAAACCCATTCCATTGCGCACTGAGCAGGTGTGGTTTTCTTCCCTTCCTC
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97362 P A
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97365 P A
A CGCGCCGAGGAAATATTCATCTTTACCTAGTTCCY
97365 P G
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97372 I
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97372 P C
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97372 P T
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97379 P A
A CGCGCCGAGGAACCTTGGTCTCCGCY
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97384 I
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97384 P T
A CGCGCCGAGGTCGCGGGGCTCTY
97384 P G
A ATGACGTGGCAGACGCGCGGGCTY
97384 T T
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97388 I
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97390 P G
A ATGACGTGGCAGACGGGCTTGAATTATTGTGGTY
97390 P A
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97390 IS [GA]
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97405 P G
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97405 P A
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97405 T G
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97405 T A
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TAGAGGGGAAGGC
97405 IS [GA]
97406 I
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97406 P T
S CGCGCCGAGGACAGAGGGGTTGGTGY
97406 P C
S ATGACGTGGCAGACGCCAGGGGTTGGTY
97406 T T
S GACCCACCAACCCTCGTTCACGCAGCCTCCTAACTGGAGAGAACCACTT
97406 T C
S GACCCACCAACCCTCGCTCACGCAGCCTCCTAACTGGAGAGAACCACTT
TCCTTTCCCTTGGCTCCTCCCCTTTGTTCCATTTCCACTCAGGGACCCACCAACCCTCG[TC]TCACGGAGCCTCCTAACTGGAGAGAACCACTTCCAAACTGTTCAGCCAT
CTCAGTTTCTC
97406 IS [TC]
97442 I
S GCCATGGACCTGCCCGGCCAA
97442 P G
S ATGACGTGGCAGACCCCGGATGAGGTAGGY
97442 P A
S CGCGCCGAGGTGCGGATGAGGTAGGY
97442 T G
S TGGCCCTACCTCATCCCGCGTGGCCGGCAGGTCCATGGCCA
97442 T A
S TGGCCCTACCTCATCCGCATGGCCGGCAGGTCCATGGCCA
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FIGURE 129C

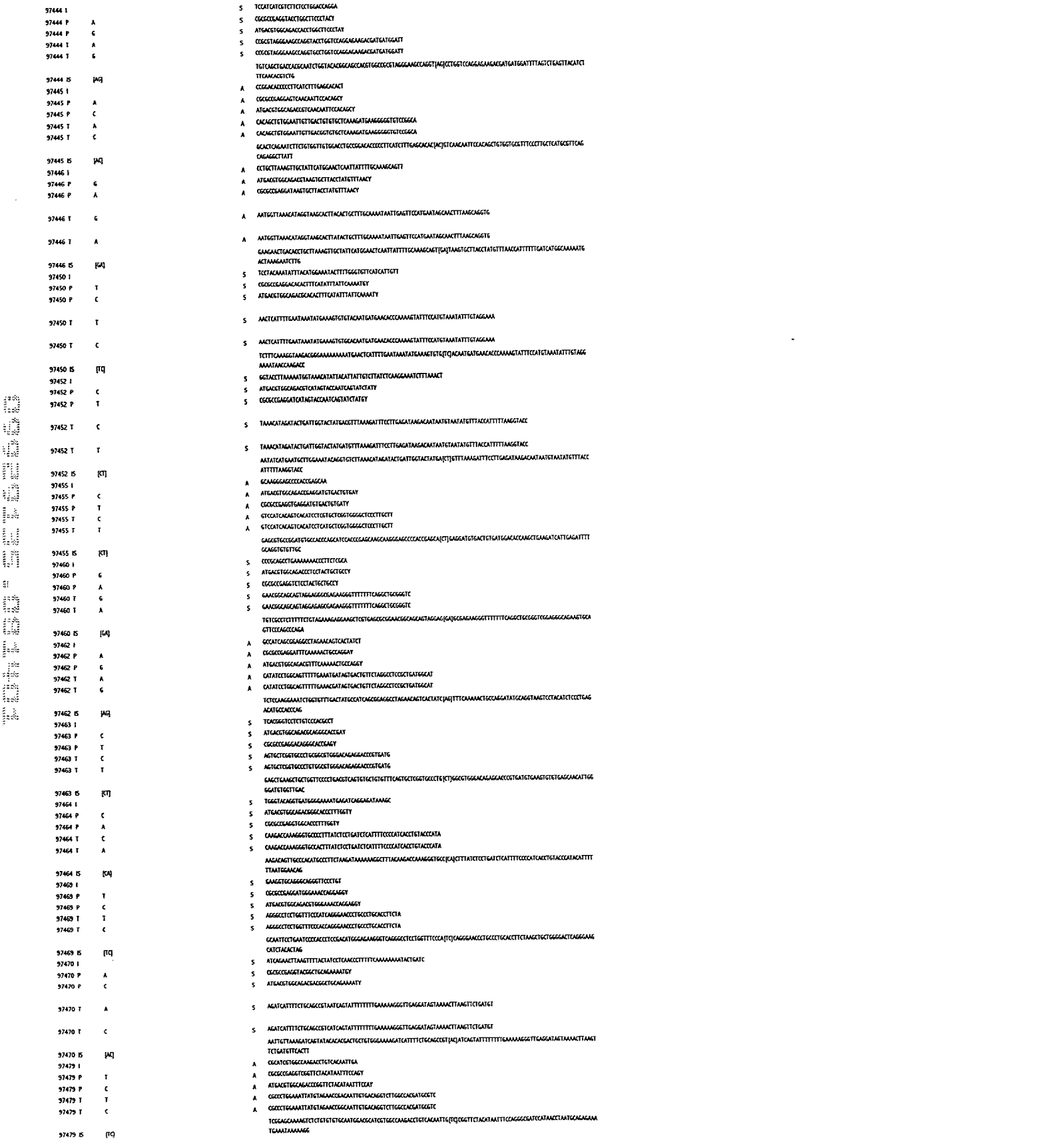


FIGURE 129C

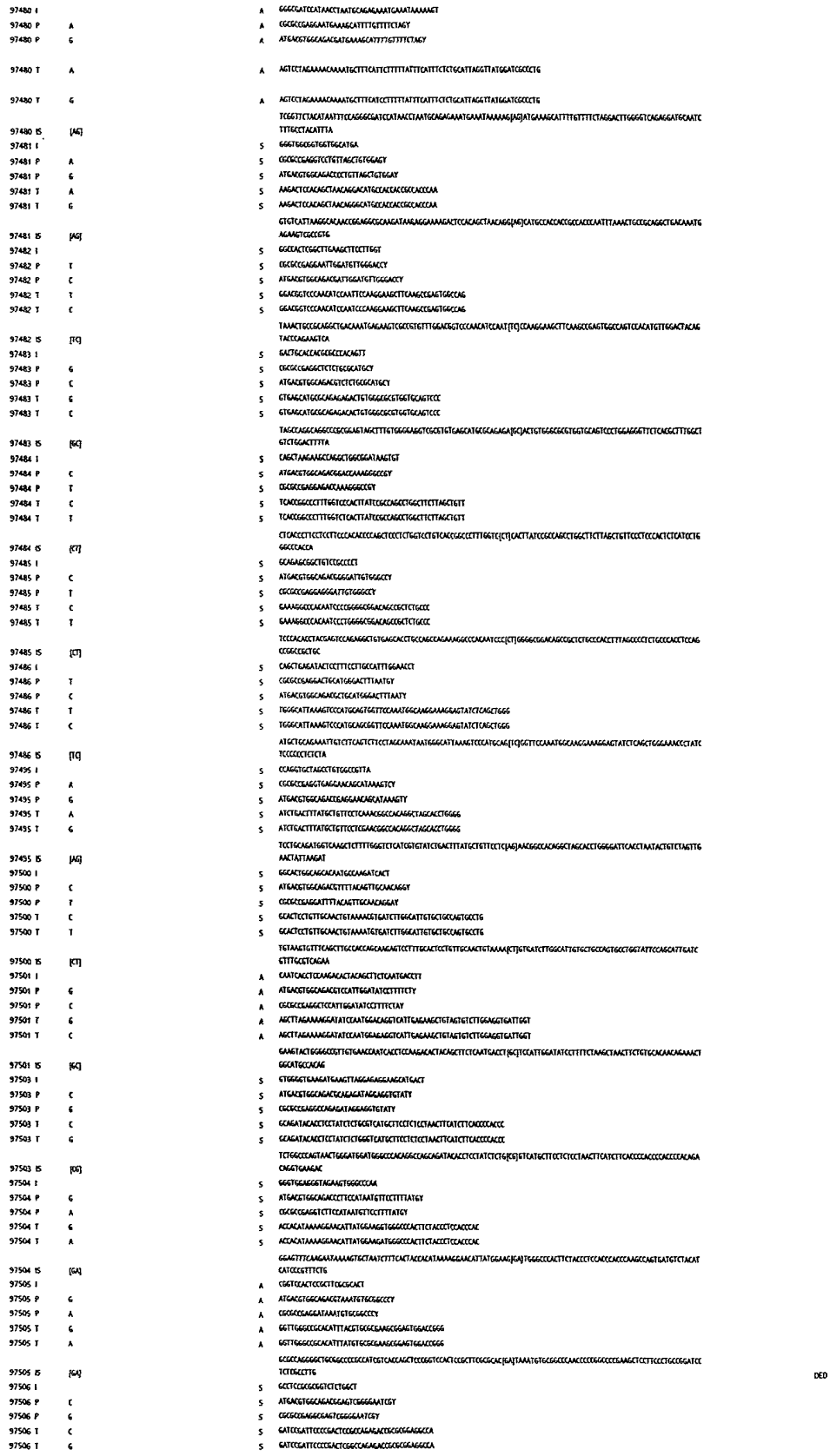


FIGURE 129C

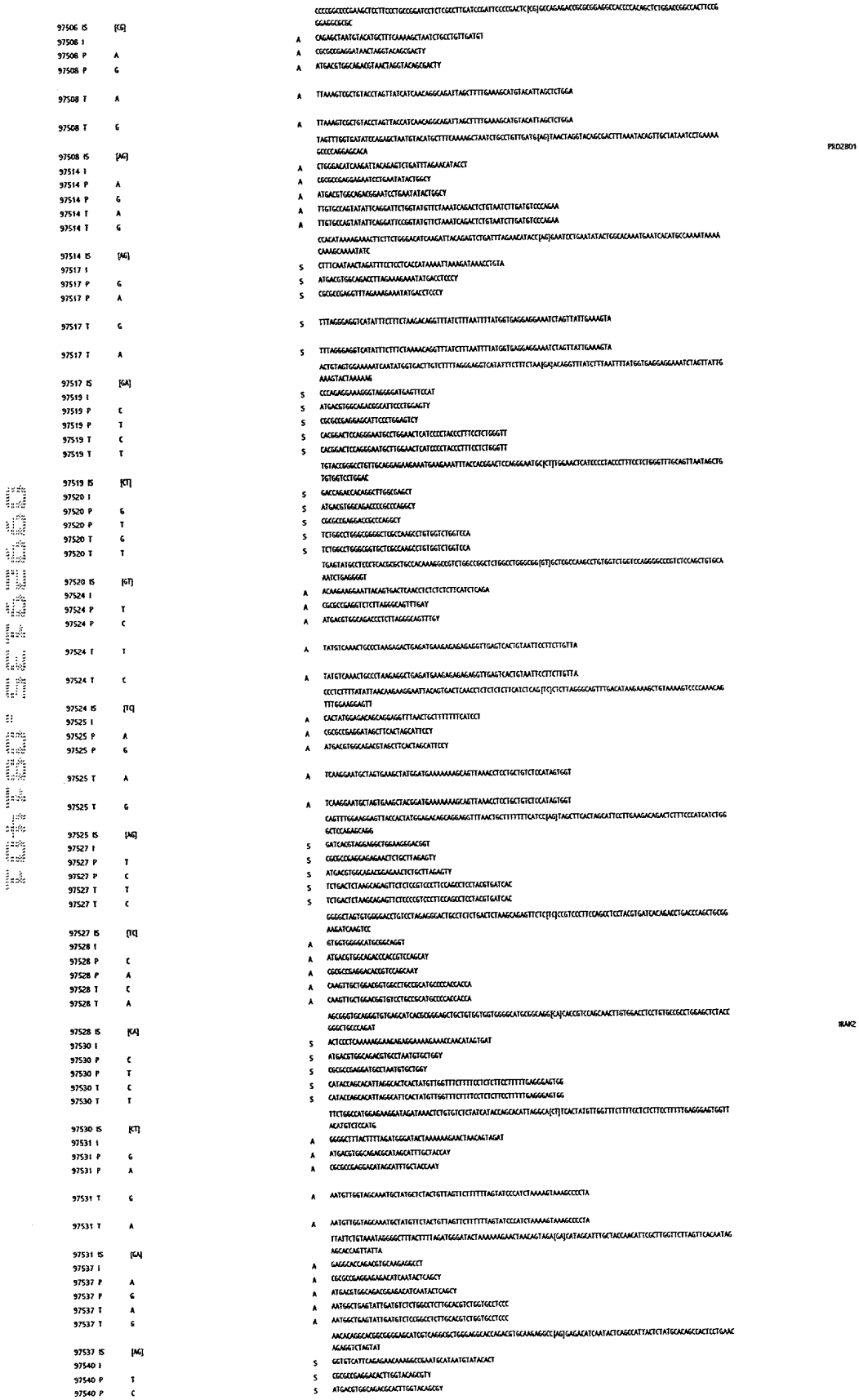
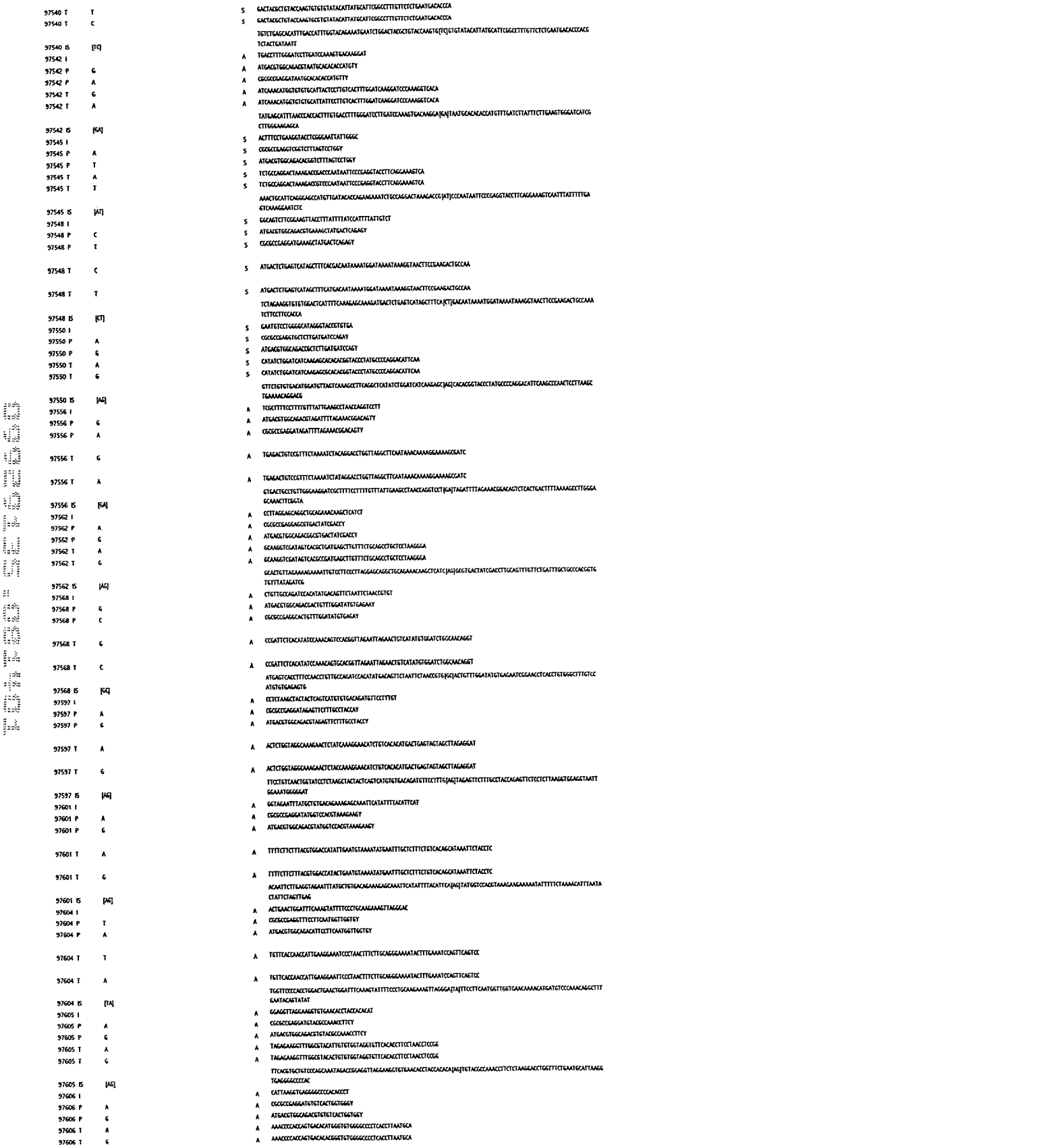
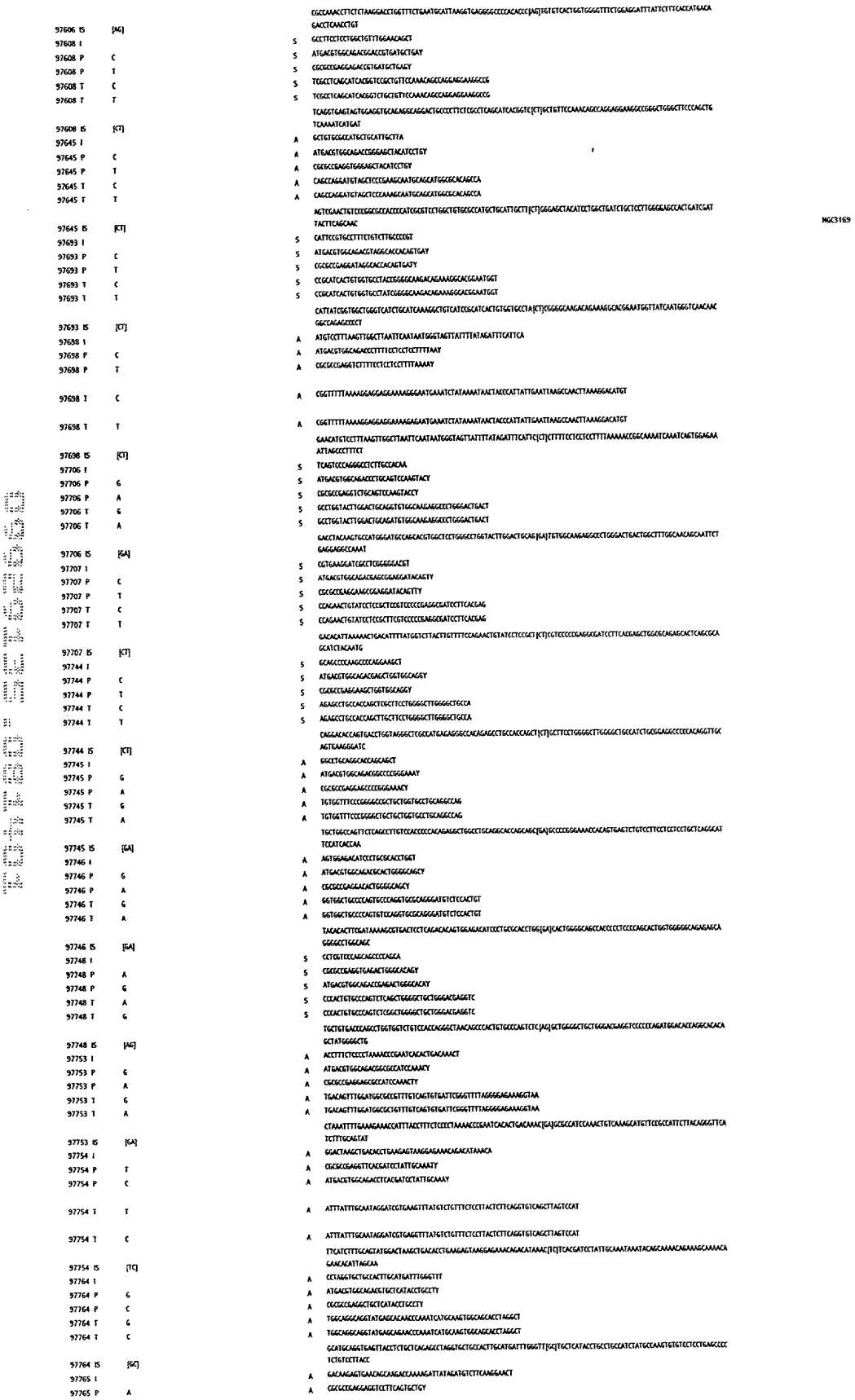


FIGURE 129C




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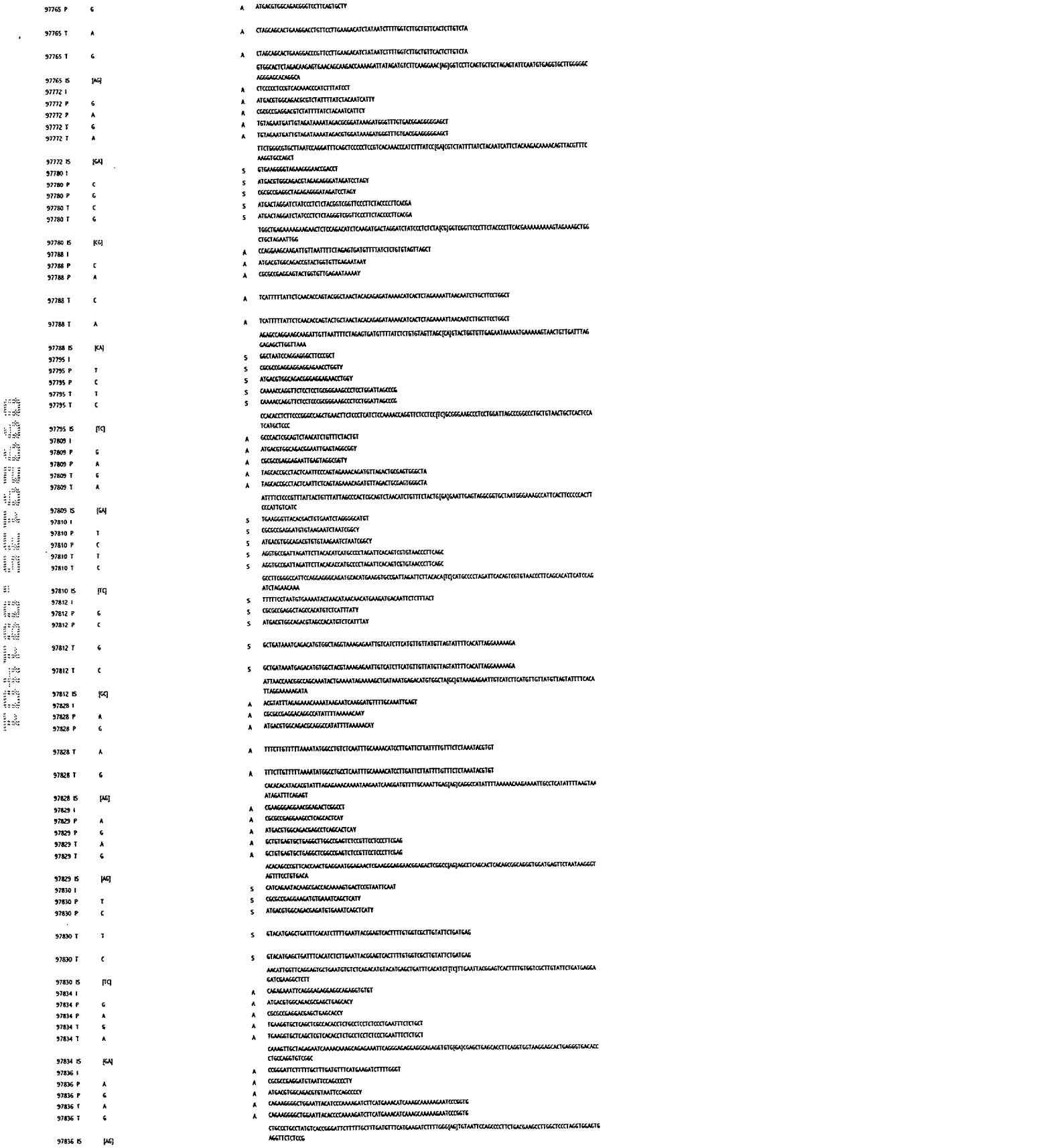

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97772 I A CTCCCCCTCCGTCACAAACCCATCTTTATCCT
97772 P G A ATGACGTGGCAGAGCGTCTATTTTATCTACAATCATTY
97772 P A A CGGCCCGAGGACGTCTATTTTATCTACAATCATTCY
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97772 T A A TGTAGAATGATTGTAGATAAAATAGACGTGGATAAAGATGGGTTTGTGACGCAGGGGGAGCT
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97780 P C S ATGACGTGGCAGACCTAGAGAGGGATAGATCCTAGY
97780 P G S CGCGCCGAGGCTAGAGAGGGATAGATCCTAGY
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97788 T C A TCATTTTTATTCTCAACACCAGTACGGCTAACTACACAGAGATAAAACATCACTCTAGAAAATTAACAATCTTGCTTCCTGGCT
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97795 P T S CGCGCCGAGGAGGAGGAGAACCTGGTY
97795 P C S ATGACGTGGCAGACGGAGAGGAGAACCTGGY
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97795 T C S CAAAACCAGGTTCTCCTCCCGCGGGAAGCCCTCCTGGATTAGCCCG
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97809 I A GCCCACTCGCAGTCTAACATCTGTTTCTACTGT
97809 P G A ATGACGTGGCAGACGGAATTGAGTAGGCGGY
97809 P A A CGCGCCGAGGAGAATTGAGTAGGCGGTY
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97809 IS [GA] ATTTTCTCCCGTTTATTACTGTTTATTAGCCCACTCGCAGTCTAACATCTGTTTCTACTG[GA]GAATTGAGTAGGCGGTGCTAATGGGAAAGCCATTCACTTCCCCCACTT CCCATTGTCATC
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97810 P T S CGCGCCGAGGATGTGTAAGAATCTAATCGGCY
97810 P C S ATGACGTGGCAGACGTGTGTAAGAATCTAATCGGCY
97810 T T S AGGTGCCGATTAGATTCTTACACATCATGCCCCTAGATTCACAGTCGTGTAACCCTTCAGC
97810 T C S AGGTGCCGATTAGATTCTTACACATCATGCCCCTAGATTCACAGTCGTGTAACCCTTCAGC
97810 IS [TC] GCCTTCGGGCCATTCCAGCAGGGCAGATGCACATGAAGGTGCCGATTAGATTCTTACACA[TC]CATGCCCCTAGATTCACAGTCGTGTAACCCTTCAGCACATTCATCCAG ATCTAGAACAAA
97812 I S TTTTTCCTAATGTGAAAATACTAACATAACAACATGAAGATGACAATTCTCTTTACT
97812 P G S CGCGCCGAGGCTAGCCACATGTCTCATTTATY
97812 P C S ATGACGTGGCAGACGTAGCCACATGTCTCATTTAY
97812 T G S GCTGATAAATGAGACATGTGGCTAGGTAAAGAGAATTGTCATCTTCATGTTGTTATGTTAGTATTTTCACATTAGGAAAAAGA
97812 T C S GCTGATAAATGAGACATGTGGCTACGTAAAGAGAATTGTCATCTTCATGTTGTTATGTTAGTATTTTCACATTAGGAAAAAGA
97812 IS [GC] ATTAACCAACGGCCAGCAAATACTGAAAATAGAAAAGCTGATAAATGAGACATGTGGCTA[GC]GTAAAGAGAATTGTCATCTTCATGTTGTTATGTTAGTATTTTCACA TTAGGAAAAAGATA
97828 I A ACGTATTTAGAGAAACAAAATAAGAATCAAGGATGTTTTGCAAATTGAGT
97828 P A A CGCGCCGAGGACAGGCCATATTTTAAAAACAAY
97828 P G A ATGACGTGGCAGACGCAGGCCATATTTTAAAAACAY
97828 T A A TTTCTTGTTTTTAAAATATGGCCTGTCTCAATTTGCAAAACATCCTTGATTCTATTTTGTTTCTCTAAATACGTGT
97828 T G A TTTCTTGTTTTTAAAATATGGCCTGCCTCAATTTGCAAAACATCCTTGATTCTATTTTGTTTCTCTAAATACGTGT
97828 IS [AG] CACACACATACACGTATTTAGAGAAACAAAATAAGAATCAAGGATGTTTTGCAAATTGAG[AG]CAGGCCATATTTTAAAAACAAGAAAATTGCCTCATATTTTAAGTAA ATAGATTTCAGAGT
97829 I A CGAAGGGAGGAACGGAGACTCGGCCT
97829 P A A CGCGCCGAGGAAGCCTCAGCACTCAY
97829 P G A ATGACGTGGCAGACGAGCCTCAGCACTCAY
97829 T A A GCTGTGAGTGCTGAGGCTTGGCCGAGTCTCCGTTCCTCCCTTCGAG
97829 T G A GCTGTGAGTGCTGAGGCTCGGCCGAGTCTCCGTTCCTCCCTTCGAG
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97830 I S CATCAGAATACAAGCGACCACAAAAGTGACTCCGTAATTCAAT
97830 P T S CGCGCCGAGGAAGATGTGAAATCAGCTCATY
97830 P C S ATGACGTGGCAGACGAGATGTGAAATCAGCTCATY
97830 T T S GTACATGAGCTGATTTCACATCTTTTGAATTACGGAGTCACTTTTGTGGTCGCTTGTATTCTGATGAG
97830 T C S GTACATGAGCTGATTTCACATCTCTTGAATTACGGAGTCACTTTTGTGGTCGCTTGTATTCTGATGAG
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97834 P G A ATGACGTGGCAGACGCGAGCTGAGCACY
97834 P A A CGCGCCGAGGACGAGCTGAGCACCY
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97834 T A A TGAAGGTGCTCAGCTCGTCACACCTCTGCCTCCTCTCCCTGAATTTCTCTGCT
97834 IS [GA] CAAAGTTGCTAGAGAATCAAAACAAAGCAGACAAATTCAGGGAGAGGAGGCAGAGGTGTG[GA]CGAGCTGAGCACCTTCAGGTGGTAAGGAGCACTGAGGGTGACACC CTGCCAGGTGTCGGC
97836 I A CCGGGATTCTTTTTGCTTTGATGTTTCATGAAGATCTTTTGGGT
97836 P A A CGCGCCGAGGATGTAATTCCAGCCCCTY
97836 P G A ATGACGTGGCAGACGTGTAATTCCAGCCCCY
97836 T A A CAGAAGGGGCTGGAATTACATCCCAAAAGATCTTCATGAAACATCAAAGCAAAAAGAATCCCGGTG
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FIGURE 129C

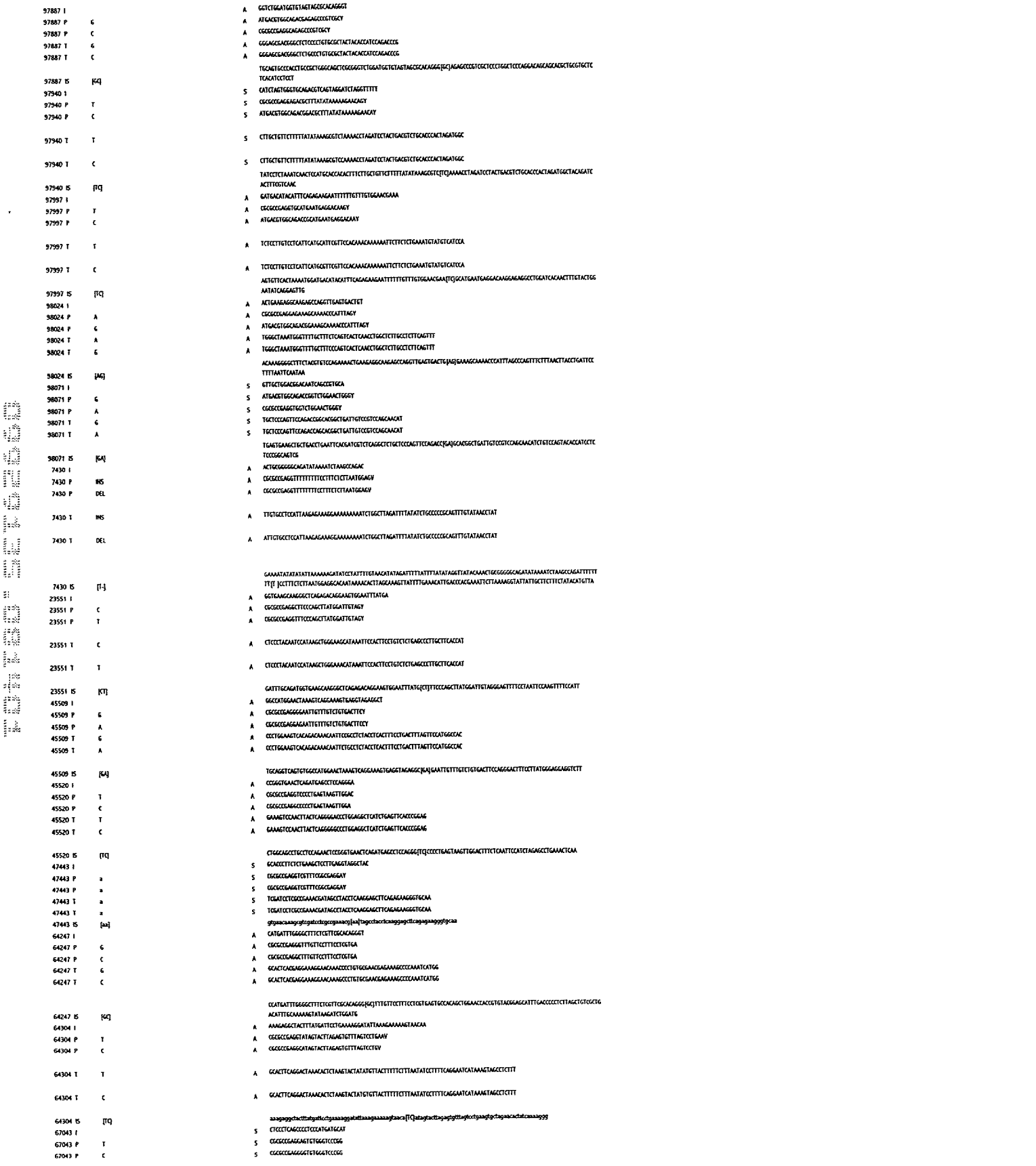


FIGURE 129C

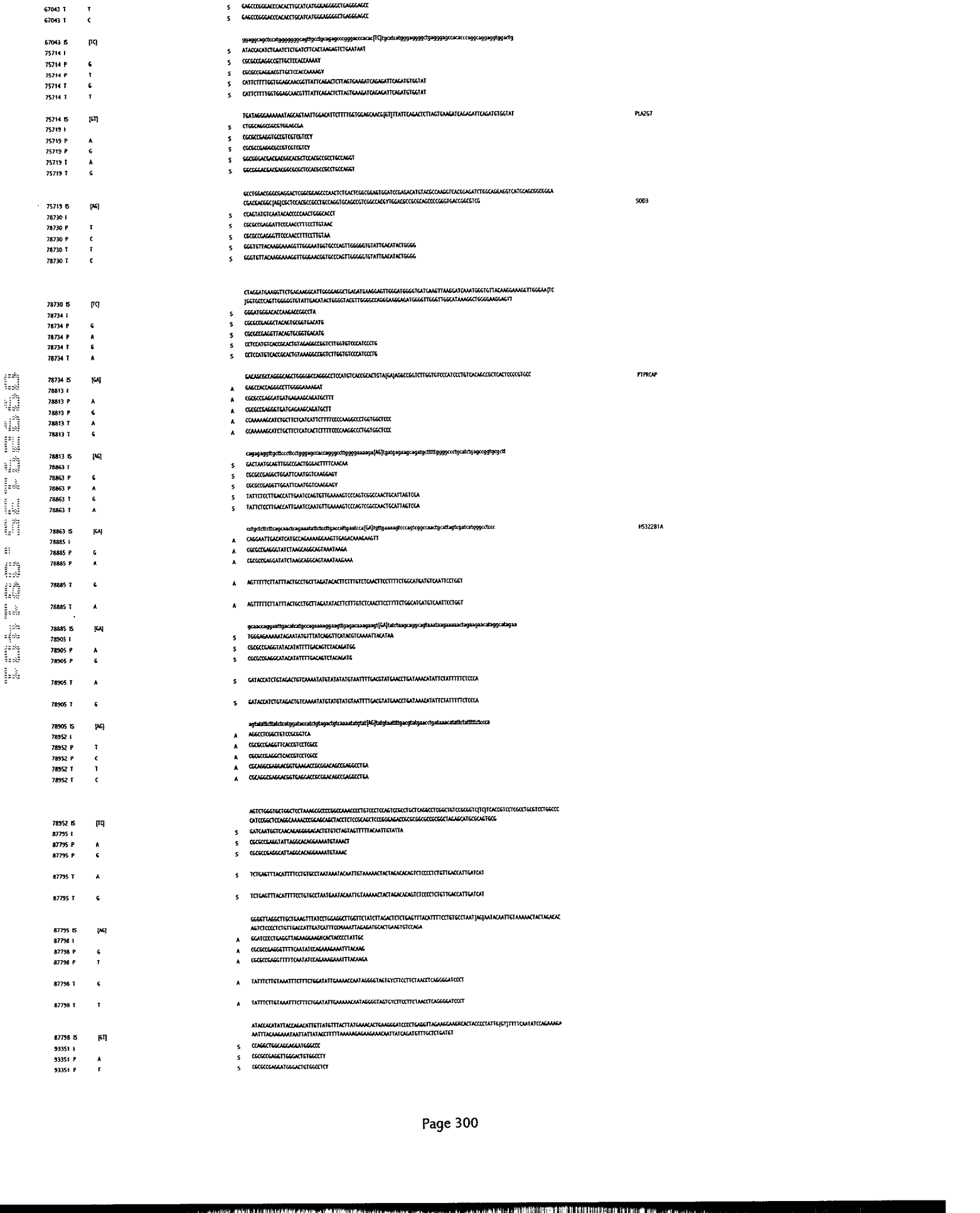
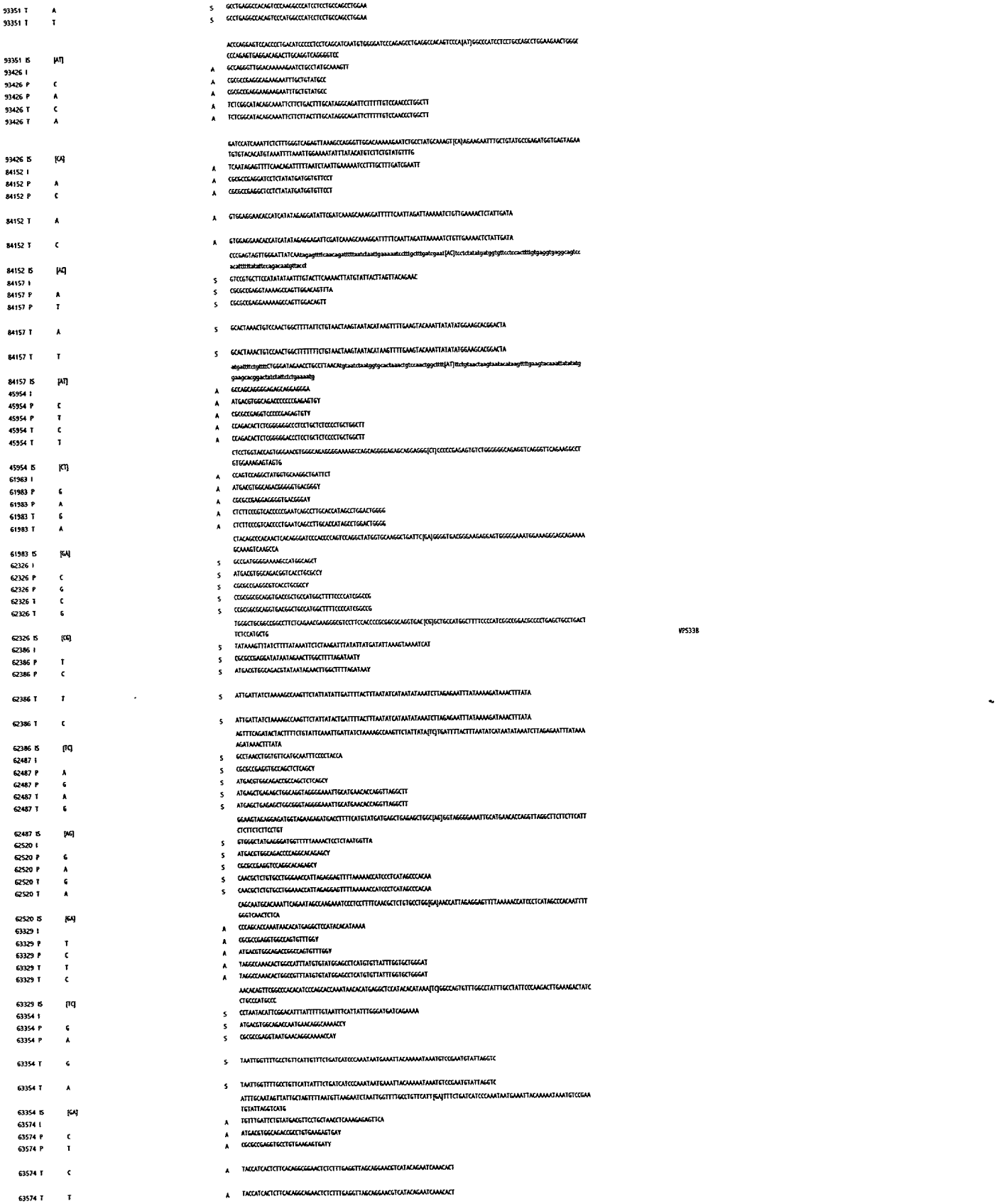
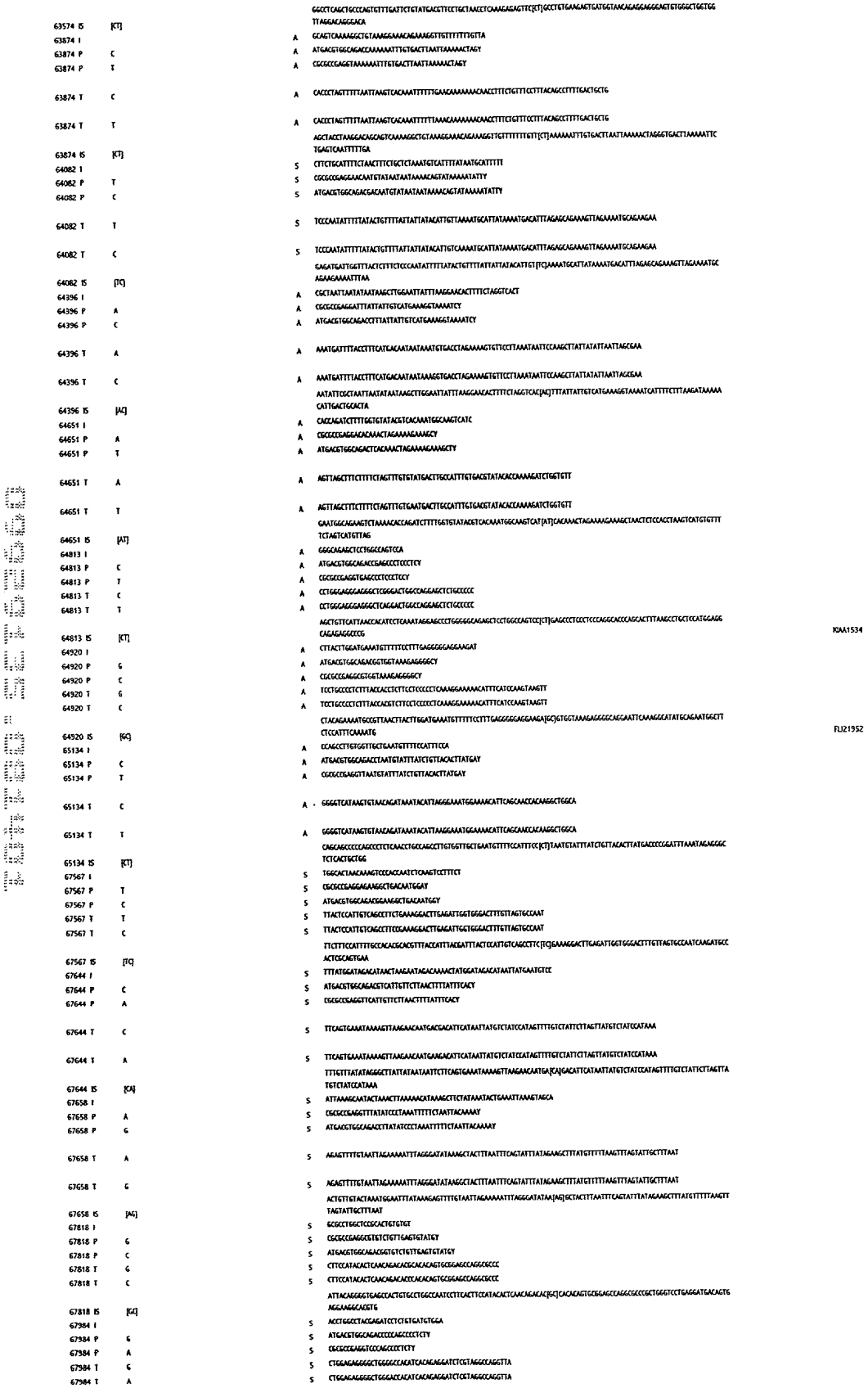


FIGURE 129C





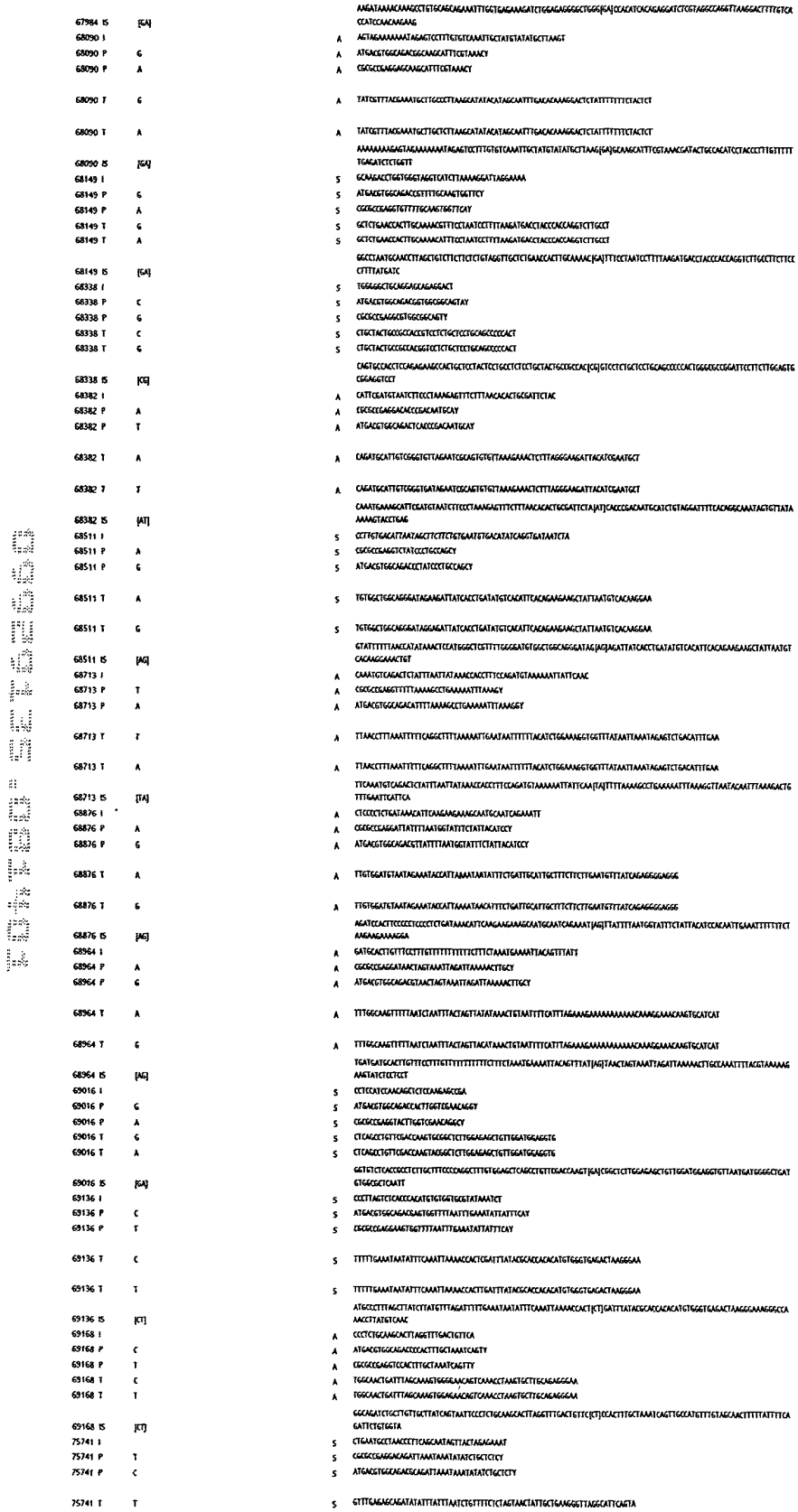
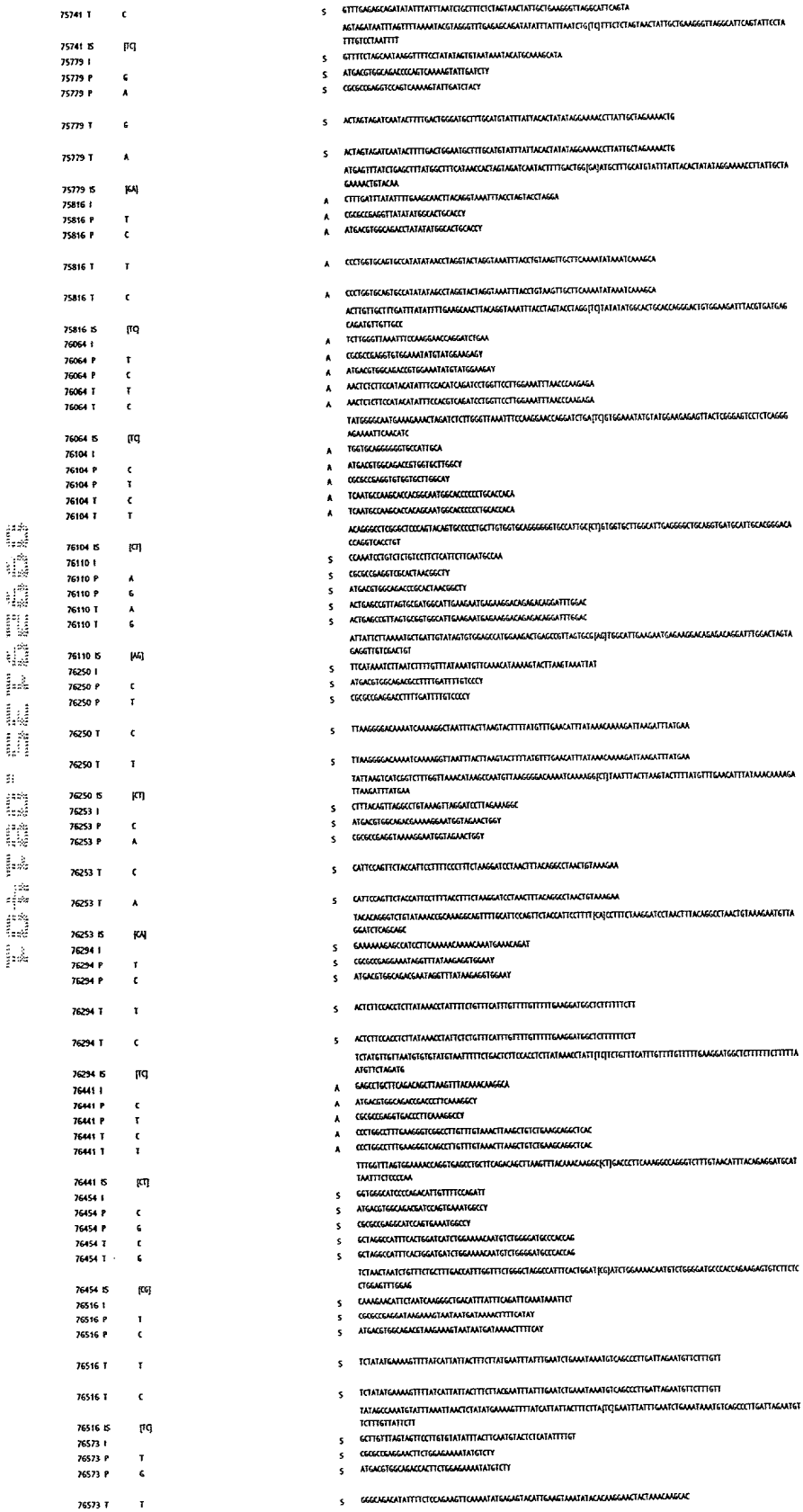


FIGURE 129C



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76573 IS  [TG]   AAACAAGCACTGAGC
76630 I                A  TTAGAAAATGTTTCTTTACTATTTTATTAAACACTGGAAAAATATTTGACATCCTACCAAC
76630 P   A    A  CGCGCCCAGGAGCTTTTGTGGTTTAAAAGCY
76630 P   T    A  ATGACGTGGCAGACTGCTTTTGTGGTTTAAAAGCY

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76630 T   T    A  TACTGCTTTTTAAACCACAAAAGCATTGGTAGGATGTCAAATATTTTTCCAGTGTTTAATAAAATAGTAAAGAAACATTTTCTAA
                 TTAGAAAATGTTTCTTTACTATTTTATTAAACACTGGAAAAATATTTGACATCCTACCAA[AT]GCTTTTGTGGTTTAAAAGCAGTACTAAGAGTTTGGGGACACAGAT
76630 IS  [AT]   TGCTTATTTGGATA
76647 I                A  GCCTTGGCTTTCCGCCCTCGCGTTCA
76647 P   C    A  ATGACGTGGCAGACCGTCTCCACACTTCTCTY
76647 P   T    A  CGCGCCGAGGTGTCTCCACACTTCTCTGY
76647 T   C    A  AGGCCAGAGAAGTGTGGAGACGGAACGCGAGGGCGAAAGCCAAGGCCA
76647 T   T    A  AGGCCAGAGAAGTGTGGAGACAGAACGCGAGGGCGAAAGCCAAGGCCA

                 GGCCTTCGCCTCCTGGTCCTCCTCGCCCTGGCATTGGCCTTGGCTTTCGCCCTGCGTTC[CT]GTCTCCACACTTCTCTGGCCTTCCTGGCGGCCTTGCGAAGGGGCTGGCGG
76647 IS  [CT]   CGCCTCCGGG
76677 I                S  GCTCTCCCATCGGACGTCCTGTGGCC
76677 P   C    S  ATGACGTGGCAGACGGGGCCCAGAAATGY
76677 P   A    S  CGCGCCGAGGTGGGCCCAGAAATGGY
76677 T   C    S  GCACCCATTTCTGGGCCCCGCCACAGGACGTCCGATGGGAGAGCTT
76677 T   A    S  GCACCCATTTCTGGGCCCAGCCACAGGACGTCCGATGGGAGAGCTT

                 AGACACCCTGGTCCTCCCGGAAGGGCAGTCCCCACAGGCAGCGGCCACCCATTTCTGGGCCC[CA]GCCACAGGACGTCCGATGGGAGAGCTTGTCTGGCTCTACTGATGATGG
76677 IS  [CA]   ATAGGCCCCTTC                                                                                                    FU14840
76690 I                S  GGGCTGAAGCACCTCTGTTTGCCCACT
76690 P   T    S  CGCGCCGAGGACCCCGCAGTGACY
76690 P   G    S  ATGACGTGGCAGACCCCCCGCAGTGACY
76690 T   T    S  GGGGGTCACTGCGGGGGTGTGGGCAAACAGAGGTGCTTCAGCCCAC
76690 T   G    S  GGGGGTCACTGCGGGGGGTGGGCAAACAGAGGTGCTTCAGCCCAC

                 CGCGATGTGACAGCCCGTGAGTCCGTCCATTCCGGGGACACTATGGGGGTCACTGCGGGG[TG]GTGGGCAAACAGAGGTGCTTCAGCCCACACAAACAGCTAATTGAGT
76690 IS  [TG]   TTTTCTGTTTGTT
76712 I                A  GGAGAAAATAGCTGTACTGCAGTGTATACTTGCAGGACTGATA
76712 P   T    A  CGCGCCGAGGTGGCAAGAAAATGGGTATAGY
76712 P   C    A  ATGACGTGGCAGACCGGCAAGAAAATGGGTATY

76712 T   T    A  TTTTCTATACCATTTTCTTGCCAATCAGTCCTGCAAGTATACACTGCAGTACAGCTATTTTCTCCCC

76712 T   C    A  TTTTCTATACCATTTTCTTGCCGATCAGTCCTGCAAGTATACACTGCAGTACAGCTATTTTCTCCCC

                 CTTAGAGCAAGGGAATGGGCAGAAAATAGCTGTACTGCAGTGTATACTTGCAGGACTGAT[TC]GGCAAGAAAATGGGTATAGAAAACTGGACATCTTAACAGAATTA
76712 IS  [TC]   AAATATAGAAATTTA
76743 I                A  CAGGGCAGGGGCCTCAGCCACA
76743 P   T    A  CGGGCCAGGTGGGAAAGAACGCCAY
76743 P   C    A  ATGACGTGGCAGACCGGGAAAGAACGCCY
76743 T   T    A  TGCTTGGCGTTCTTTCCCAGTGGCTGAGGCCCCTGCCCTGCC
76743 T   C    A  TGCTTGGCGTTCTTTCCCGGTGGCTGAGGCCCCTGCCCTGCC

                 CACACAGCCACACACACACACTCCCGGGCTCCCCATTTGGGCAGGGCAGGGGCCTCAGCCAC[TC]GGGAAAGAACGCCAAGCAGAGAGGTCCCCACAGCCACCCTGCAGCTGGGC
76743 IS  [TC]   TGCACCCAAGGA
76744 I                S  TCCCCAAAGTCTGGAGTCGATAAGGACTGAAGACAA
76744 P   G    S  ATGACGTGGCAGACCGACGCCGACGGY
76744 P   A    S  CGCGCCGAGGTGACGCCGACGGY
76744 T   G    S  GCCGCCGTCGGCGTCGTGTCTTCAGTCCTTATCGACTCCAGACTTTGGGGATG
76744 T   A    S  GCCGCCGTCGGGGTCATGTCTTCAGTCCTTATCGACTCCAGACTTTGGGGATG

                 GCTCGGCCTCCCCCTCGGATGAGACGCGCATGCCCGGTGTCCCCCGGCCGCCGTCGGCGTC[GA]TGTCTTCAGTCCTTATCGACTCCAGACTTTGGGGATGCGTATTAACGCC
76744 IS  [GA]   AGACTCCTGCA
76750 I                S  GAAGGGATTTGCATCATTCTGGATTGACATTCTCTTA
76750 P   G    S  ATGACGTGGCAGACCGCCTTTTGTATTTATCAGY
76750 P   A    S  CGCGCCGAGGTGCCCTTTTGTATTTATCAGTY
76750 T   G    S  CGCAACTGATAAATACAAAAGGGCGAAGAGAATGTCAATCCAGAATGATGCAAATCCCTTCAT
76750 T   A    S  CGCAACTGATAAATACAAAAGGGCAAAGAGAATGTCAATCCAGAATGATGCAAATCCCTTCAT

                 GGCAGCAGATTAGACACAAAATTGTAATTGTTAGTACGCAACTGATAAATACAAAAGGGC[GA]AAGAGAATGTCAATCCAGAATGATGCAAATCCCTTCATTATTACTC
76750 IS  [GA]   TCGGTATACGTCGT
76763 I                A  GAGAAGCAGTAGAGAGTGAGCTGAAGCCATCCAA
76763 P   T    A  CGCGCCGAGGTGACTCTTTCCTCCCTGY
76763 P   C    A  ATGACGTGGCAGACCGACTCTTTCCTCCCTY
76763 T   T    A  AAGACAGGGAGGAAAAGAGTCATGGATGGCTTCAGCTCACTCTCTACTGCTTCTCCC
76763 T   C    A  AAGACAGGGAGGAAAAGAGTCGTGGATGGCTTCAGCTCACTCTCTACTGCTTCTCCC

                 GTCGGGGTTTCTGGAGGTGGGGGTGGGGAGAAGCAGTAGAGAGTGAGCTGAAGCCATCCA[TC]GACTCTTTCCTCCCTGTCTTCCACCCATAGAAGTACCCAGAGGTTCT
76763 IS  [TC]   TGGAAATCCAGTT
76799 I                S  GGGGCGGACGTGCAGAGGGGT
76799 P   C    S  ATGACGTGGCAGACGCCCGGGCCGY
76799 P   T    S  CGCGCCGAGGACCCGGGCCGGY
76799 T   C    S  AGCCCCGGCCGGGCCGCCTCTGCAGGTCCGCCCCCG
76799 T   T    S  AGCCCCGGCCGGGCGGTCGCCTCTGCAGGTCCGCCCCG

                 TTCCAGTAACTCCCGCCCCTCCGCGGCTTGCCCCGCAGCTGATTCATAGCCCCGGCCGGG[CT]CGCCTCTGCAGGTCCGCCCCGGAGCCCGCACCCGGCCCCACGGGCCGCC
76799 IS  [CT]   GAGGACTCCG
76814 I                S  GACTTATGAGCTTATGAATGGAATCTTTCTGGTATAATTTTCAAACTTGAAA
76814 P   A    S  CGCGCCGAGGTTTTAATAACAGGTAGGTGAGAGY
76814 P   G    S  ATGACGTGGCAGACCTTTAATAACAGGTAGGTGAGAGY

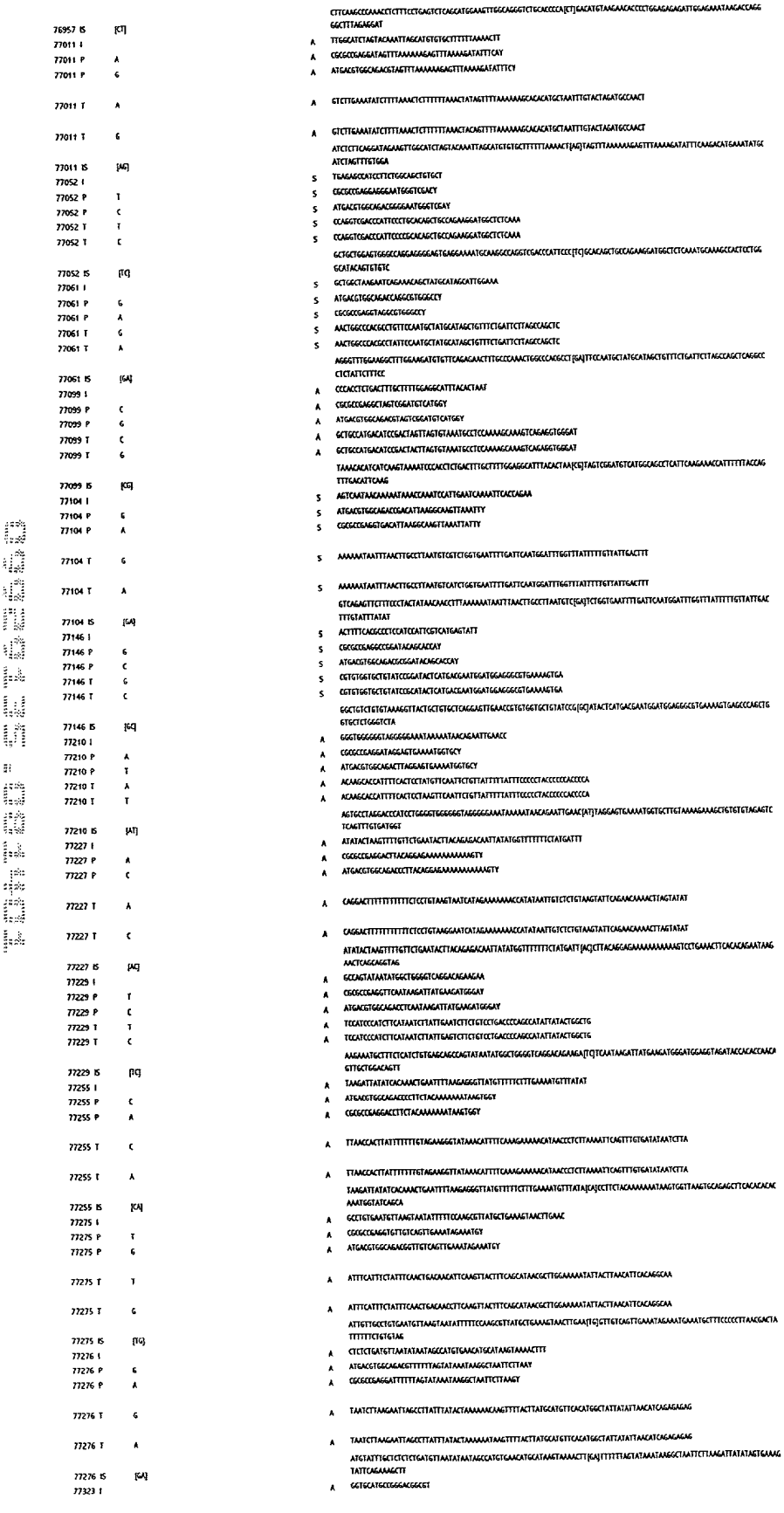
76814 T   A    S  TTCTCTCTCACCTACCTGTTATTAAAATTCAAGTTTGAAAATTATACAGAAAGATTCCATTCATAAGCTCATAAGTCAT

76814 T   G    S  TTCTCTCTCACCTACCTGTTATTAAAGTTCAAGTTTGAAAATTATACCAGAAAGATTCCATTCATAAGCTCATAAGTCAT

                 TTCAATTAGCCTTTAAATGCCACCCATGCATAGTTTCTCTCTCACCTACCTGTTATTAAA[AG]TTCAAGTTTGAAAATTATACCAGAAAGATTCCATTCATAAGCTCATA
76814 IS  [AG]   AGTCATCTACATT
76863 I                S  TGGGGGTAGGGTGTACTTCACCACAAGGACT
76863 P   T    S  CGCGCCGAGGATAACTCCAATAGATTTTAACCAAAAY
76863 P   C    S  ATGACGTGGCAGACGTAACTCCAATAGATTTTAACCAAAY
76863 T   T    S  TAAATTTTGGTTAAAATCTATTGGAGTTATGTCCTTGTGGTGAAGTACACCTACCCCCAAG
76863 T   C    S  TAAATTTTGGTTAAAATCTATTGGAGTTACGTCCTTGTGGTGAAGTACACCTACCCCCAAG

                 CTGCCTGTTAAAATATGTCCTTTCTTTGCTGTAAATTTTGGTTAAAATCTATTGGAGTTA[TC]GTCCTTGTGGTGAAGTACACCTACCCCCAAGAGAGCAAATGATGAA
76863 IS  [TC]   TAAATCAGTAGAT
76957 I                A  GAAGTTGGCAGGGTCTGCACCCCAA
76957 P   C    A  ATGACGTGGCAGACCGACATGTAAGAACACCCY
76957 P   T    A  CGCGCCGAGGTGACATGTAAGAACACCCY
76957 T   C    A  CCAGGGGTGTTCTTACATGTCGTGGGGTGCAGACCCTGCCAACTTCCA
76957 T   T    A  CCAGGGGTGTTCTTACATGTCATGGGGTGCAGACCCTGCCAACTTCCA
```

FIGURE 129C





77323 P G A ATGACGTGGCAGACGTGGGTGGTGCATGY
77323 P A A CGCGCCGAGGATGGGTGGTGCATGY
77323 T G A AGCGCATGCACCACCACCGCCGTCCCGGCATGCACCGC
77323 T A A AGCGCATGCACCACCCATCGCCGTCCCGGCATGCACCGC
77323 IS [GA] ATCCCAGCTCTGTGGTCCCGCGGAGGCGGAGCCCGCGGGCGCGGTGCATGCCGGGGACGGCG[GA]TGGGTGGTGCATGCGCTCGCATCATGGCGGCTGAGTGGGCTTCTCGCTTTCTTGGCTTTGGG
77365 I C CCCGCTTCTCTTACACCTATAAATTTGGAGGGAAAGTGCC
77365 P A S CGCGCCGAGGTAAATTTCTGCAAACGTCAAGY
77365 P C S ATGACGTGGCAGACGAAATTTCTGCAAACGTCAAY
77365 T A S ATTACTTGACGTTTGCAGAAATTTAGCACTTTCCCTCCAAATTTATAGGTGTAAGAGAAGCGGGGG
77365 T C S ATTACTTGACGTTTGCAGAAATTTCGCACTTTCCCTCCAAATTTATAGGTGTAAGAGAAGCGGGGG
77365 IS [AC] TGTATTGAGAATTTGCTGCTGATTGTATTTATAACAATTACTTGACGTTTGCAGAAATTT[AC]GCACTTTCCCTCCAAATTTATAGGTGTAAGAGAAGCGGGGGCAAGGTGCACCACATTTA
77390 I C CAGAAGTGTCAGAGTCGTTTTTAAAGTATAGAATTGTGTTTAAAATTTTAGCA
77390 P A S CGCGCCGAGGTTTCACTCTTTCACATTTTTTTCY
77390 P G S ATGACGTGGCAGACCTTCACTCTTTCACATTTTTTTCY
77390 T A S GAGGGAAAAAAATGTGAAAGAGTGAAAGCTAAAATTTTAAACACAATTCTATACTTTAAAAACGACTCTGACACTTCTGGA
77390 T G S GAGGGAAAAAAATGTGAAAGAGTGAAGGCTAAAATTTTAAACACAATTCTATACTTTAAAAACGACTCTGACACTTCTGGA
77390 IS [AG] GGTCCTTTCTTAAGTGCACCACCCCTCTGCATTAGAGGGAAAAAATGTGAAAGAGTGAA[AG]GCTAAAATTTTAAACACAATTCTATACTTTAAAAACGACTCTGACACTTCTGGAGAAATT
77458 I C GGTGAGGTGGGGGCAGCCAGAT
77458 P T S CGCGCCGAGGAGGGACCGTCCCTY
77458 P C S ATGACGTGGCAGACGGGGAACCGTCCCTY
77458 T T S GGCCAGGGAGGTCCCCTCTGGCTGCCCCCACCTCACCCA
77458 T C S GGCCAGGGAGGTCCCCTCTGGCTGCCCCCACCTCACCCA
77458 IS [TC] TGAGGCCCCATCCAGGGAGGAGTACCTTCGAGGCTGAACCATCTGGCCAGGGCACGGTCCC[TG]TCTGGCTGCCCCCACCTCACCCAGCGTGAGCTCCCAGGGAAGCCTGAGCAGCCCCCAACA
77466 I C GACAACTTAACGGTCATTTGTGCTTATAAGAACCATCAATTTA
77466 P G S ATGACGTGGCAGACCAGGTATATAAAAAAGGTACATTGCY
77466 P A S CGCGCCCGAGGTAGGTATATAAAAAAGGTACATTGCY
77466 T G S AACTGCAATGTACCTTTTTTATATACCTGAAATTGATGGTTCTTATAAGCACAAATGACCGTTAAGTTGTCCG
77466 T A S AACTGCAATGTACCTTTTTTATATACCTAAAATTGATGGTTCTTATAAGCACAAATGACCGTTAAGTTGTCCG
77466 IS [GA] AGCTCTCTCTGCCCTTTTTCATTATCTTAAAACTGCAATGTACCTTTTTTATATACCT[GA]AAATTGATGGTTCTTATAAGCACAAATGACCGTTAAGTTGTCCGTATACATTAAAGCTTG
77520 I C ACCATCTGGTCACTTGTCTAACTTTGGTTCCATAAACCATAAAGTCTTAC
77520 P A S CGCGCCGAGGTCTCAGGTGTTTTTGTTTGY
77520 P C S ATGACGTGGCAGACGCTCAGGTGTTTTTGTTGY
77520 T A S TCAGCAAACAAAACACCTGAGATAAGACTTTATGGTTTATGGAACCAAAGTTAGACAAGTGACCAGATGGTCA
77520 T C S TCAGCAAACAAAACACCTGAGCTAAGACTTTATGGTTTATGGAACCAAAGTTAGACAAGTGACCAGATGGTCA
77520 IS [AC] TTTTCAATCTTCCTGAGGTGAAAGATAGTCTTTTTAAATCAGCAAACAAAAACACCTGAG[AC]TAAGACTTTATGGTTTATGGAACCAAAGTTAGACAAGTGACCAGATGGTCAAGGAGACAC
77567 I A GGAAGCCTGTAATTACCTCTGAGTGCTCTATTTGGCTACAATTTAAAAC
77567 P A A CGCGCCGAGGACATATATATTTTAAAACTCTATAAACTCTTATGY
77567 P T A ATGACGTGGCAGACTCATATATATTTTAAAACTCTATAAACTCTTATGY
77567 T A A TATGCATAAGAGTTTATAGAGTTTTAAAATATATATGTTTTTAAATTGTAGCCAAAATAGAGCACTCAGAGGTAATTACAGGCTTCCTT
77567 T T A TATGCATAAGAGTTTATAGAGTTTTAAAATATATATGATTTTAAATTGTAGCCAAAATAGAGCACTCAGAGGTAATTACAGGCTTCCTT
77567 IS [AT] TTGCTTCTAAAGGAAGCCTGTAATTACCTCTGAGTGCTCTATTTTGGCTACAATTTAAAAA[AT]CATATATATTTTAAAACTCTATAAACTCTTATGCATATCCCTTTTTAAGAATCTGACCTG
77639 I C AGCAAGGGAAAGGAGCTCACTGAAGGCCA
77639 P G S ATGACGTGGCAGACCATGCTCATTAATGAGGAAGY
77639 P A S CGCGCCGAGGTATGCTCATTAATGAGGAAGY
77639 T G S TTTTGCTTCCTCATTAATGAGCATGGGCCTCAGTGAGCTCCTTTCCCTTGCTGG
77639 T A S TTTTGCTTCCTCATTAATGAGCATAGGCCTTCAGTGAGCTCCTTTCCCTTGCTGG
77639 IS [GA] AGCCTGGCCCTGGGAACAGACAGCTGTGTGCTGTTGTTTTTGCTTCCTCATTAATGAGCAT[GA]GGCCTTCAGTGAGCTCCTTTCCCTTGCTGGCCTTCATTTGTAAAATGTTGGCTGACGGCT
77640 I A GAGCAGATCACTCAGAGGTCACTGCAGTTCAAAGAAT
77640 P G A ATGACGTGGCAGACGGGTGCACTGACCTY
77640 P A A CGCGCCGAGGAGGTGCACTGACCTCY
77640 T G A GAGTGAGGTCAGTGCACCCTTCTTTGAACTGCAGTGACCTCTGAGTGATCTGCTCTT
77640 T A A GAGTGAGGTCAGTGCACCTTCTTTGAACTGCAGTGACCTCTGAGTGATCTGCTCTT
77640 IS [GA] CAGGAGGAATGGCAACAGGAGGAAGAGCAGATCACTCAGAGGTCACTGCAGTTCAAAGAA[GA]GGTGCACTGACCTCACTCCCTGAGGTCCCCCAACTCTGGGGCTTGGGCTAAGAGAGGG
77659 I C CATGTCCAGACACAGTCTGGACAAAACTGGAAAATCCTT
77659 P C S ATGACGTGGCAGACGAGCTAGATTATATTTTTTGAATATGCY
77659 P T S CGCGCCGAGGAAGCTAGATTATATTTTTTGAATATGCY
77659 T C S CCATGCATATTCAAAAATATAATCTAGCTCAGGATTTTCCAGTTTTGTCCAGACTGTGTCTGGACATGAA
77659 T T S CCATGCATATTCAAAAATATAATCTAGCTTAGGATTTTCCAGTTTTGTCCAGACTGTGTCTGGACATGAA
77659 IS [CT] GATCACAGGGGGTGATCTGCCAGCAGACAACCATGCATATTCAAAAAATATAATCTAGCT[CT]AGGATTTTCCAGTTTTGTCCAGACTGTGTCTGGACATGAACACAGTTGAGAGGGTTATGC
77771 I A GTAACCAAAGCATAATATACAATTAATGTAATAACTAATTGTATTTATTTTAATGTTTCTT
77771 P A A CGCGCCGAGGATAAGATAATGTCTGCTGTGAGY
77771 P G A ATGACGTGGCAGACGTAAGATAATGTCTGCTGTGAY
77771 T A A CCAACTCACAGCAGACATTATCTATAGAAACATTAAAATAAATACAATTAGTTATTACATTAATTGTATATTATCCTTTGGTTAC
77771 T G A CCAACTCACAGCAGACATTATCTTACAGAAACATTAAAATAAATACAATTAGTTATTACATTAATTGTATATTATCCTTTGGTTAC
77771 IS [AG] GTAACCAAAGCATAATATACAATTAATGTAATAACTAATTGTATTTATTTTAATGTTTCT[AG]TAAGATAATGTCTGCTGTGAGTTGGGACTCCCCATGTCTAAGCCATTGGAGACAGGGACT
77777 I C GGGACATCACAGGTTTTAAAAAAATCAATTATATTAGGCAAATAACATAGCT
77777 P C S ATGACGTGGCAGACGTAATACATTTGTAATTATAATTAACAAGGGY
77777 P T S CGCGCCGAGGATAATACATTTGTAATTATAATTAACAAGGGY
77777 T C S TTTACCCTTGTTAATTATAATTACAAATGTATTACGCTATGTTATTTGCCTAATATAATTGATTTTTTTAAAACCTGTGATGTCCCCA
77777 T T S TTTACCCTTGTTAATTATAATTACAAATGTATTATGCTATGTTATTTGCCTAATATAATTGATTTTTTTAAAACCTGTGATGTCCCCA
77777 IS [CT] GTATTTCAAGGTTTGGATTTTGATATTTTACCCT?GTTAATTATAATTACAAATGTATTA[CT]GCTATGTTATTTGCCTAATATAATTGATTTTTTTAAAACCTGTGATGTCCCCAAAATTAA
77786 I C CAGCCCCTATTTTTCACATCTTCATGATCACATCATAAAAATTGTTCTGTCTTACT
77786 P T S CGCGCCGAGGATCATCTGCAACTTAGACAATY

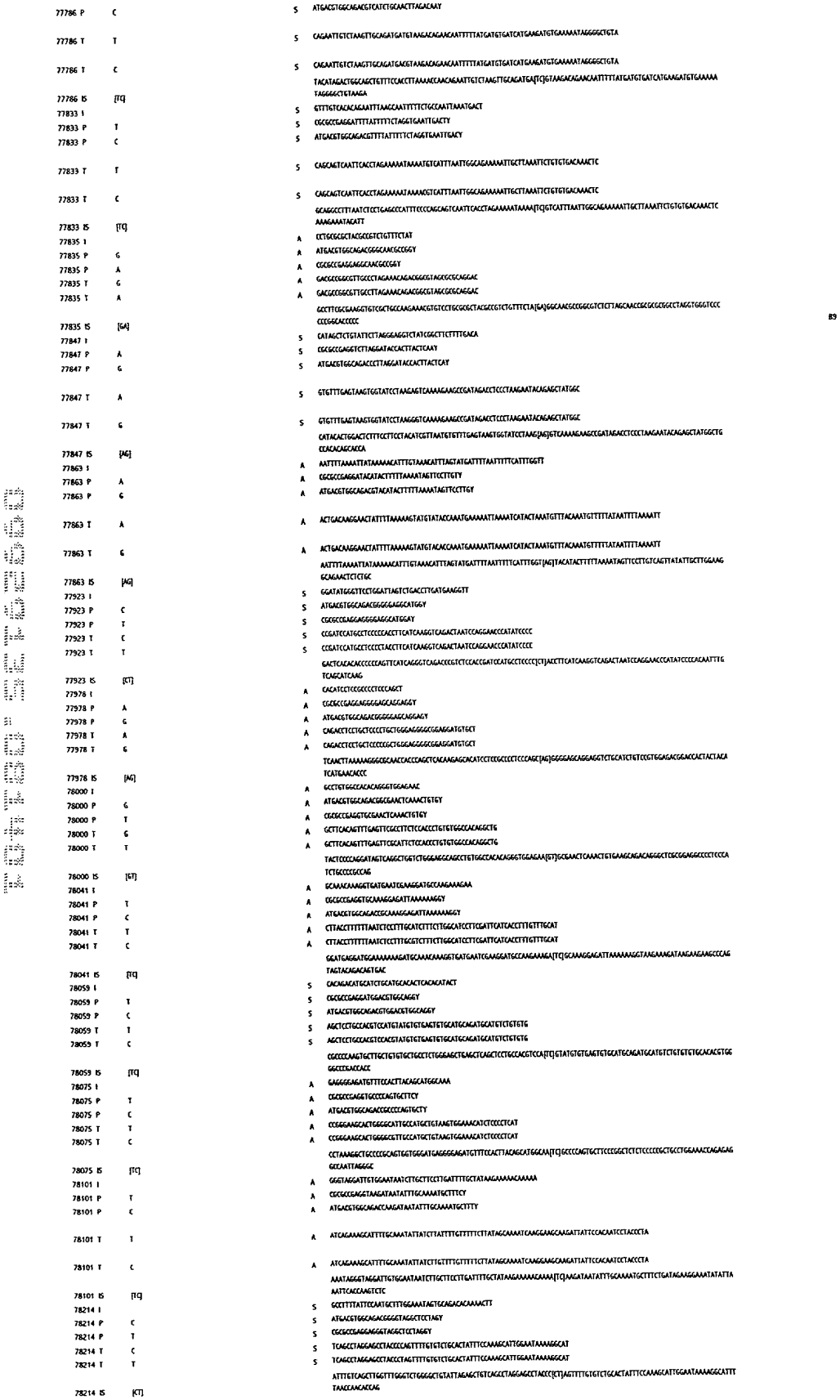
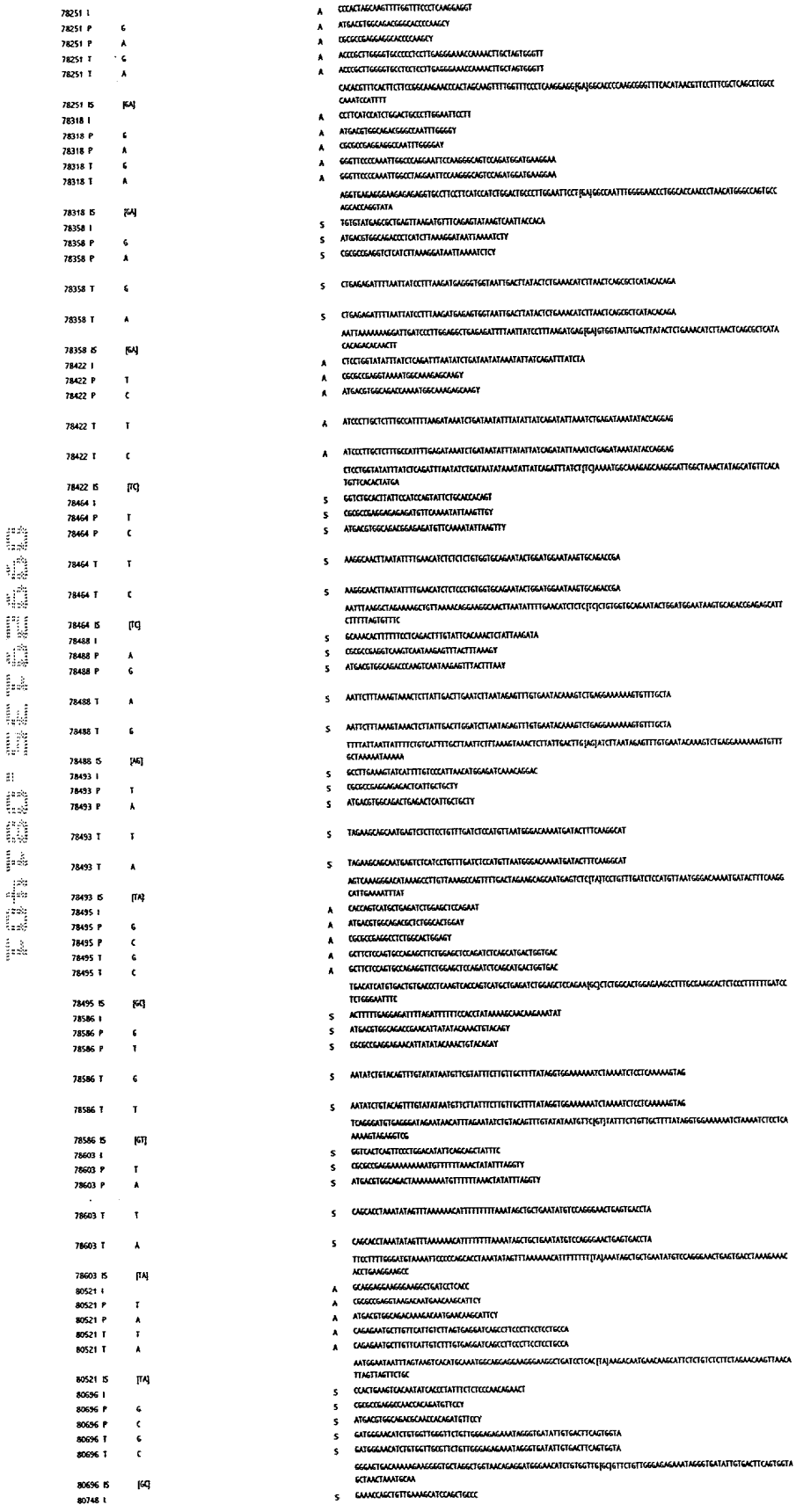

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77786 T T
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77786 T C
S CAGAATTGTCTAAGTTGCAGATGACGTAAGACAGAACAATTTTTATGATGTGATCATGAAGATGTGAAAAATAGGGGCTGTA
TACATAGACTGGCAGCTGTTTCCACCTTAAAACCAACAGAATTGTCTAAGTTGCAGATGAR[TC]GTAAGACAGAACAATTTTTATGATGTGATCATGAAGATGTGAAAAA
TAGGGGCTGTAAGA
77786 IS [TC]
77833 I
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77833 P T
S CGCGCCGAGGATTTTATTTTTCTAGGTGAATTGACTY
77833 P C
S ATGACGTGGCAGACGTTTTATTTTTCTAGGTGAATTGACY
77833 T T
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77833 T C
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AAAGAAATACATT
77833 IS [TC]
77835 I
A CCTGCGCGCTACGCCGTCTGTTTCTAT
77835 P G
A ATGACGTGGCAGACGGGCAACGCCGGY
77835 P A
A CGCGCCGAGGAGGCAACGCCGGY
77835 T G
A GACGCCGGCGTTGCCTAGAAACAGACGGGGGTAGCGCGCAGGAC
77835 T A
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77835 IS [GA]
77847 I
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77847 P A
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77847 P G
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77847 T A
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77847 T G
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77863 P A
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77863 P G
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77863 T A
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77863 T G
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77863 IS [AG]
77923 I
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77923 P C
S ATGACGTGGCAGACGGGGGAGGCATGGY
77923 P T
S CGCGCCGAGGAGGGGAGGCATGGAY
77923 T C
S CCGATCCATGCCTCCCCCACCTTCATCAAGGTCAGACTAATCCAGGAACCCATATCCCC
77923 T T
S CCGATCCATGCCTCCCCTACCTTCATCAAGGTCAGACTAATCCAGGAACCCATATCCCC
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TCAGCATCAAG
77923 IS [CT]
77978 I
A CACATCCTCCGCCCCTCCCCAGCT
77978 P A
A CGCGCCGAGGAGGGGAGCAGCAGGAGY
77978 P G
A ATGACGTGGCAGACGGGGGAGCAGGAGY
77978 T A
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77978 T G
A CAGACCTCCTGCTCCCCCGCTGGGAGGGGCGGAGGATGTGCT
TCAACTTAAAAAGGGCGCAACCACCCAGCTCACAAGAGCACATCCTCCGCCCCTCCCAGC[AG]GGGGAGCAGGAGGTCTGCATCTGTCCGTGGAGACGGACCACTACTACA
TCATGAACACCC
77978 IS [AG]
78000 I
A GCCTGTGGCCACACAGGGTGGAGAAC
78000 P G
A ATGACGTGGCAGACGGCGAACTCAAACTGTGY
78000 P T
A CGCGCCGAGGTGCGAACTCAAACTGTGY
78000 T G
A GCTTCACAGTTTGAGTTCGCCTTCTCCACCCTGTGTGGCCACAGGCTG
78000 T T
A GCTTCACAGTTTGAGTTCGCATTCTCCACCCTGTGTGGCCACAGGCTG
TACTCCCCAGGATAGTCAGGCTGGTCTGGGAGGCAGGCCTGTGGCCACACAGGGTGGAGAA[GT]GCGAACTCAAACTGTGAAGCAGACAGGCCTCGCGGAGGCCCCTCCCA
TCTGCCCCGCCAG
78000 IS [GT]
78041 I
A GCAACAAAGGTGATGAATCGAAGGATGCCAAGAAAGAA
78041 P T
A CGCGCCGAGGTGCAAAGGAGATTAAAAAAGGY
78041 P C
A ATGACGTGGCAGACGCAAAGGAGATTAAAAAAGGY
78041 T T
A CTTACCTTTTTTAATCTCCTTTGCATCTTTCTTGGCATCCTTCGATTCATCACCTTTGTTTGCAT
78041 T C
A CTTACCTTTTTTAATCTCCTTTGCGTCTTTCTTGGCATCCTTCGATTCATCACCTTTGTTTGCAT
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TAGTACAGACAGTGAC
78041 IS [TC]
78059 I
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78059 P T
S CGCGCCGAGGATGGACGTGGCAGGY
78059 P C
S ATGACGTGGCAGACGTGGACGTGGCAGGY
78059 T T
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78059 T C
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GGCCCCACCACC
78059 IS [TC]
78075 I
A GAGGGGAGATGTTTCCACTTACAGCATGGGCAAA
78075 P T
A CGCGCCGAGTGCCCCAGTGCTTCY
78075 P C
A ATGACGTGGCAGACCGCCCCAGTGCTY
78075 T T
A CCGGGAAGCACTGGGGCATTGCCATGCTGTAAGTGGAAACATCTCCCCTCAT
78075 T C
A CCGGGAAGCACTGGGGCGTTGCCATGCTGTAAGTGGAAACATCTCCCCTCAT
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GCCAATTAGGGC
78075 IS [TC]
78101 I
A GGGTAGGATTGTGGAATAATCTTGCTTCCTTGATTTTGCTATAAGAAAAACAAAAA
78101 P T
A CGCGCCGAGCTAAGATAATATTTGCAAAATGCTTTCY
78101 P C
A ATGACGTGGCAGACCAAGATAATATTTGCAAAATGCTTTY
78101 T T
A ATCAGAAAGCATTTTGCAAATATTATCTTATTTTGTTTTTCTTATAGCAAAATCAAGGAAGCAAGATTATTCCACAATCCTACCCTA
78101 T C
A ATCAGAAAGCATTTTGCAAATATTATCTTGTTTTGTTTTTCTTATAGCAAAATCAAGGAAGCAAGATTATTCCACAATCCTACCCTA
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AATTCACCAAGTCTC
78101 IS [TC]
78214 I
S GCCTTTTATTCCAATGCTTTGGAAATAGTGCAGACACAAAACTT
78214 P C
S ATGACGTGGCAGACGGGGTAGGCTCCTAGY
78214 P T
S CGCGCCGAGGAGGGTAGGCTCCTAGGY
78214 T C
S TCAGCCTAGGAGCCTACCCCAGTTTTGTGTCTGCACTATTTCCAAAGCATTGGAATAAAAGGCAT
78214 T T
S TCAGCCTAGGAGCCTACCCTAGTTTTGTGTCTGCACTATTTCCAAAGCATTGGAATAAAAGGCAT
ATTTGTCAGCTTGGTTTGGGTCTGGGGCTGTATTAGAGCTGTCAGCCTAGGAGCCTACC[CT]AGTTTTGTGTCTGCACTATTTCCAAAGCATTGGAATAAAAGGCATTT
TAACCAACACCAG
78214 IS [CT]

FIGURE 129C



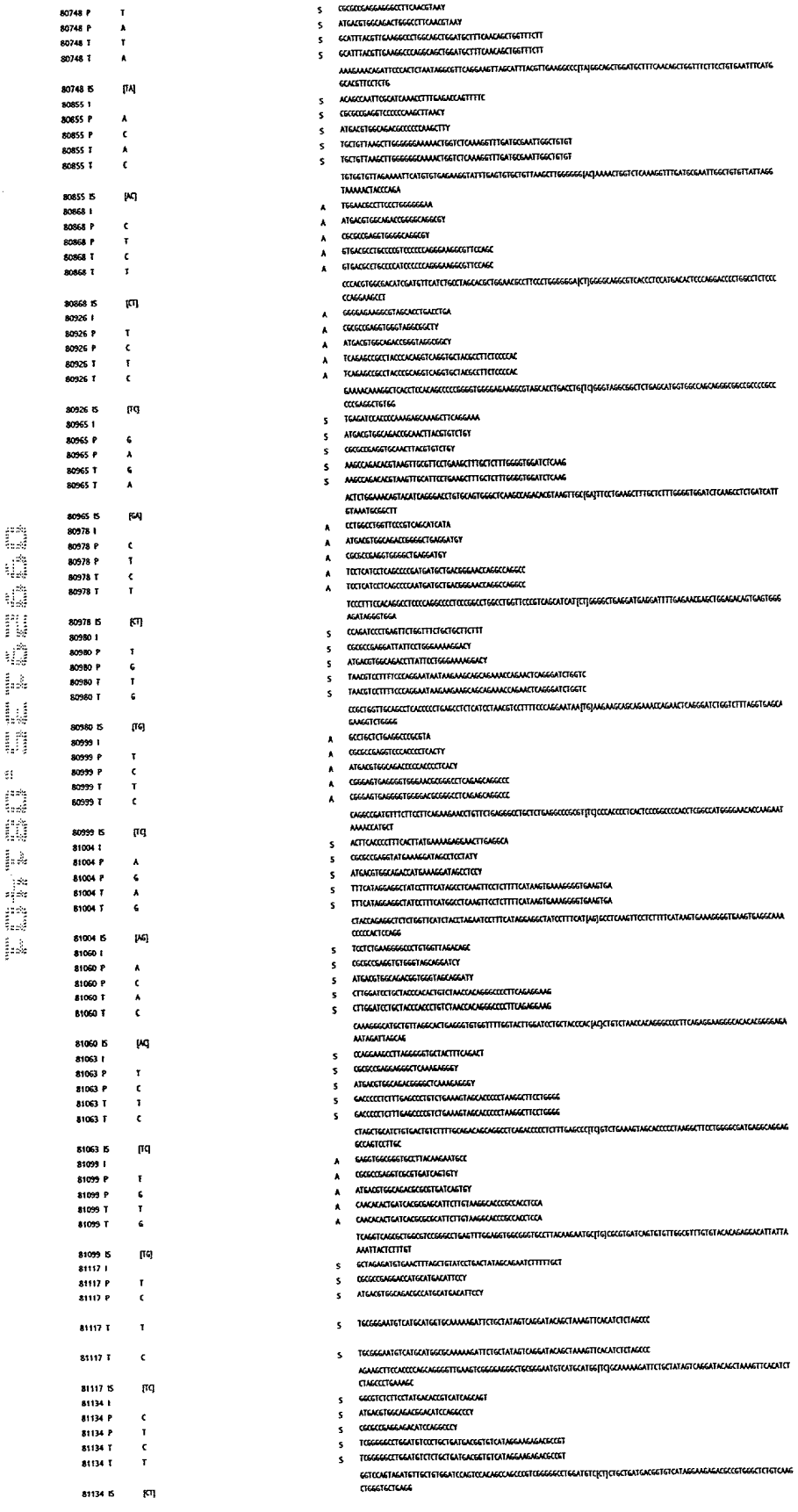
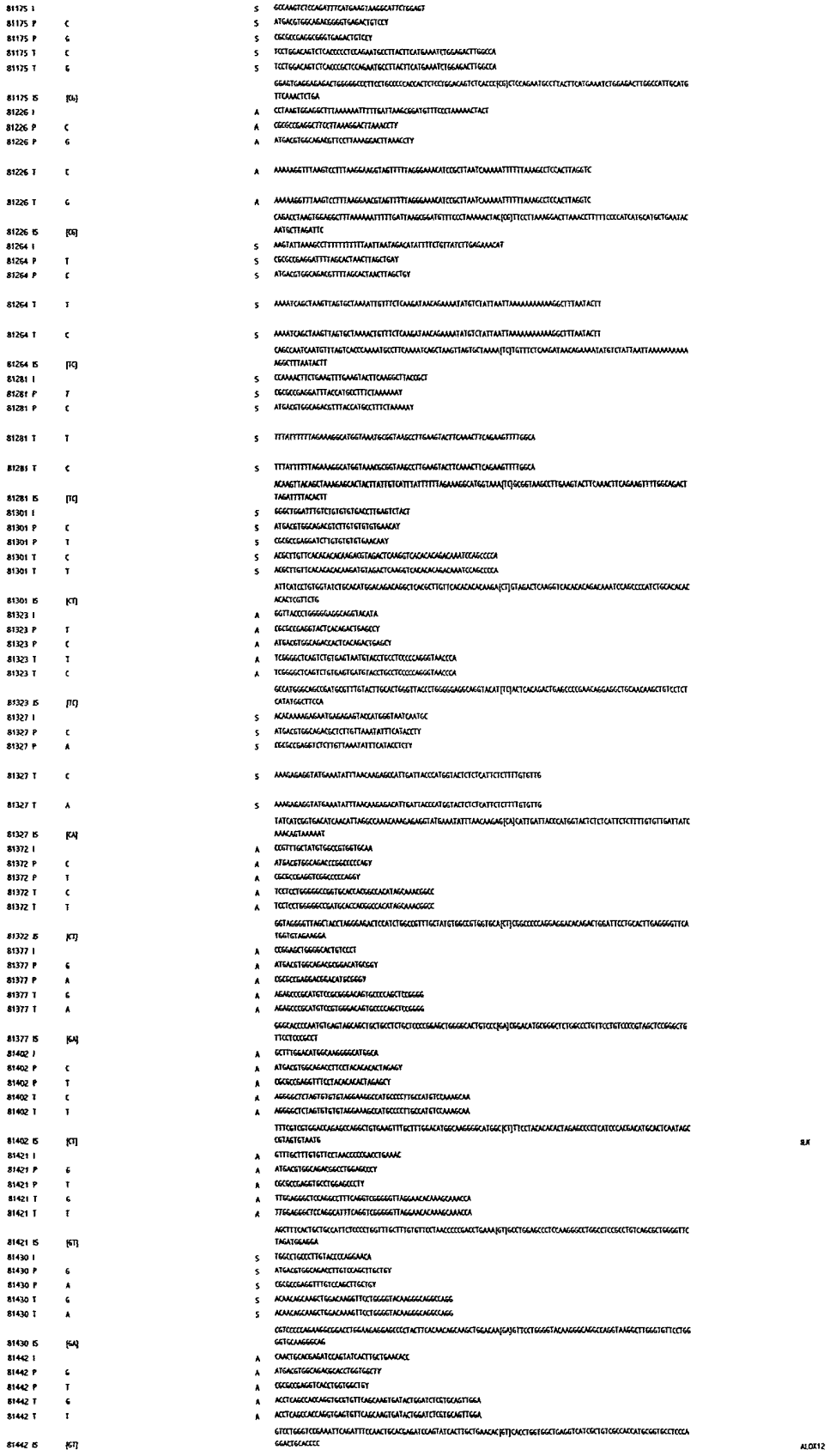

80748 P T
80748 P A
80748 T T
80748 T A
80748 IS [TA]
80855 I
80855 P A
80855 P C
80855 T A
80855 T C
80855 IS [AC]
80868 I
80868 P C
80868 P T
80868 T C
80868 T T
80868 IS [CT]
80926 I
80926 P T
80926 P C
80926 T T
80926 T C
80926 IS [TC]
80965 I
80965 P G
80965 P A
80965 T G
80965 T A
80965 IS [GA]
80978 I
80978 P C
80978 P T
80978 T C
80978 T T
80978 IS [CT]
80980 I
80980 P T
80980 P G
80980 T T
80980 T G
80980 IS [TG]
80999 I
80999 P T
80999 P C
80999 T T
80999 T C
80999 IS [TC]
81004 I
81004 P A
81004 P G
81004 T A
81004 T G
81004 IS [AG]
81060 I
81060 P A
81060 P C
81060 T A
81060 T C
81060 IS [AC]
81063 I
81063 P T
81063 P C
81063 T T
81063 T C
81063 IS [TC]
81099 I
81099 P T
81099 P G
81099 T T
81099 T G
81099 IS [TG]
81117 I
81117 P T
81117 P C
81117 T T
81117 T C
81117 IS [TC]
81134 I
81134 P C
81134 P T
81134 T C
81134 T T
81134 IS [CT]

FIGURE 129C


81175 1 S GCCAAGTCTCCAGATTTCATGAAGTAAGGCATTCTGGAGT
81175 P C S ATGACGTGGCAGAGGGGGTGAGACTGTCCY
81175 P G S CGCGCCGAGGCGGGTGAGACTGTCCY
81175 T C S TCCTGGACAGTCTCACCCCCTCCAGAATGCCTTACTTCATGAAATCTGGAGACTTGGCCA
81175 T G S TCCTGGACAGTCTCACCCGCTCCAGAATGCCTTACTTCATGAAATCTGGAGACTTGGCCA
81175 IS (CA) GGAGTGAGGAGAGACTGGGGGCCCTTCCTGCCCCCACCACTCTCCTGGCAGTCTCACCC[CG]CTCCAGAATGCCTTACTTCATGAAATCTGGAGACTTGGCCATTGCATG TTCAAACTCTGA
81226 1 A CCTAAGTGGAGGCTTTAAAAAATTTTTGATTAAGCGGATGTTTCCCTAAAAACTACT
81226 P C A CGCGCCGAGGCTTCCTTAAAGGACTTAAACCTY
81226 P G A ATGACGTGGCAGAGTTCCTTAAAGGACTTAAACCTY
81226 T C A AAAAGGTTTAAGTCCTTTAAGGAAGTAGTTTTTAGGGAAACATCCGCTTAATCAAAAATTTTTTAAAGCCTCCACTTAGGTC
81226 T G A AAAAGGTTTAAGTCCTTTAAGGAAGTAGTTTTTAGGGAAACATCCGCTTAATCAAAAATTTTTTAAAGCCTCCACTTAGGTC
81226 IS (CG) CAGACCTAAGTGGAGGCTTTAAAAAATTTTTGATTAAGCGGATGTTTCCCTAAAAACTAC[CG]TTCCTAAAGGACTTAAACCTTTTTCCCCATCATGCATGCTGAATAC AATGCTTAGATTC
81264 1 S AAGTATTAAAGCCTTTTTTTTTTTAATTAATAGACATATTTTCTGTTATCTTGAGAAACAT
81264 P T S CGCGCCGAGGATTTTAGCACTAACTTAGCTGAY
81264 P C S ATGACGTGGCAGACGTTTTAGCACTAACTTAGCTGY
81264 T T S AAAATCAGCTAAGTTAGTGCTAAAATTGTTTCTCAAGATAACAGAAAATATGTCTATTAATTAAAAAAAAAAAGGCTTTAATACTT
81264 T C S AAAATCAGCTAAGTTAGTGCTAAAACTGTTTCTCAAGATAACAGAAAATATGTCTATTAATTAAAAAAAAAAAGGCTTTAATACTT
81264 IS (TC) CAGCCAATCAATGTTTAGTCACCCAAAATGCCTTCAAAATCAGCTAAGTTAGTGCTAAAA[TC]TGTTTCTCAAGATAACAGAAAATATGTCTATTAATTAAAAAAAAAA AGGCTTTAATACTT
81281 1 S CCAAAACTTCTGAAGTTTGAAGTACTTCAAGGCTTACCGCT
81281 P T S CGCGCCGAGGATTTACCATGCCTTTCTAAAAAAY
81281 P C S ATGACGTGGCAGACGTTTACCATGCCTTTCTAAAAAY
81281 T T S TTTATTTTTTAGAAAGGCATGGTAAATGCGGGTAAGCCTTGAAGTACTTCAAACTTCAGAAGTTTTGGCA
81281 T C S TTTATTTTTTAGAAAGGCATGGTAAAGCGGGTAAGCCTTGAAGTACTTCAAACTTCAGAAGTTTTGGCA
81281 IS (TC) ACAAGTTACAGCTAAAGAGCACTACTTATTGTCATTTATTTTTTAGAAAGGCATGGTAAA[TC]GCGGTAAGCCTTGAAGTACTTCAAACTTCAGAAGTTTTGGCAGACT TAGATTTTACACTT
81301 1 S GGGCTGGATTTGTCTGTGTGTGTACCTTGAGTCTACT
81301 P C S ATGACGTGGCAGACGTCTTGTGTGTGTGAACAY
81301 P T S CGCGCCGAGGATCTTGTGTGTGTGAACAAY
81301 T C S ACGCTTGTTCACACACACAGACGTAGACTCAAGGTCACACACAGACAAATCCAGCCCCA
81301 T T S ACGCTTGTTCACACACACAAGATGTAGACTCAAGGTCACACACACAGACAAATCCAGCCCCA
81301 IS (CT) ATTCATCCTGTGGTATCTGCACATGGACAGACAGGCTCACGCTTGTTCACACACACAAGA[CT]GTAGACTCAAGGTCACACACACAGACAAATCCAGCCCCATCTGCACACAC ACACTCGTTCTG
81323 1 A GGTTACCCTGGGGGAGGCAGGTACATA
81323 P T A CGCGCCGAGGTACTCACAGACTGAGCCY
81323 P C A ATGACGTGGCAGACCACTCACAGACTGAGCY
81323 T T A TCGGGGCTCAGTCTGTGAGTAATGTACCTGCCTCCCCCAGGGTAACCCA
81323 T C A TCGGGGCTCAGTCTGTGAGTGATGTACCTGCCTCCCCCAGGGTAACCCA
81323 IS (TC) GCCATGGGCAGCCGATGCGTTTGTACTTGCACTGGGTTACCCTGGGGGAGGCAGGTACAT[TC]ACTCACAGACTGAGCCCCGAACAGGAGGCTGCAACAAGCTGTCCTCT CATATGGCTTCCA
81327 1 S ACACAAAAGAGAATGAGAGAGTACCATGGGTAATCAATGC
81327 P C S ATGACGTGGCAGACGCTCTTGTTAAATATTTCATACCTY
81327 P A S CGCGCCGAGGTCTCTTGTTAAATATTTCATACCTCTY
81327 T C S AAAGAGAGGTATGAAATATTTAACAAGAGGCATTGATTACCCATGGTACTCTCTCATTCTCTTTTGTGTTG
81327 T A S AAAGAGAGGTATGAAATATTTAACAAGAGACATTGATTACCCATGGTACTCTCTCATTCTCTTTTGTGTTG
81327 IS (CA) TATCATCGGTGACATCAACATTAGGCCAAACAAAGAGAGGTATGAAATATTTAACAAGAG[CA]CATTGATTACCCATGGTACTCTCTCATTCTCTTTTGTGTTGATTATC AAACAGTAAAAAT
81372 1 A CCGTTTGCTATGTGGCCGTGGTGCAA
81372 P C A ATGACGTGGCAGACCCGGCCCCCAGY
81372 P T A CGCGCCGAGGTCGGCCCCCAGGY
81372 T C A TCCTCCTGGGGGCCGGTGCACCACGGCCACATAGCAAACGGCC
81372 T T A TCCTCCTGGGGGCCGATGCACCACGGCCACATAGCAAACGGCC
81372 IS (CT) GGTAGGGGTTAGCTACCTAGGGAGACTCCATCTGGCCGTTTGCTATGTGGCCGTGGTGCA[CT]CGGCCCCCAGGAGGACACAGACTGGATTCCTGCACTTGAGGGGTTCA TGGTGTAGAAGGA
81377 1 A CCGGAGCTGGGGCACTGTCCCT
81377 P G A ATGACGTGGCAGACGCGGACATGCGGY
81377 P A A CGCCCCGAGGACGCACATGCGGGY
81377 T G A AGAGCCCGCATGTCCGCGGGACAGTGCCCCAGCTCCGGGG
81377 T A A AGAGCCCGCATGTCCGTGGGACAGTGCCCCAGCTCCGGGG
81377 IS (GA) GGGCACCCCAATGTGAGTAGCAGCTGCTGCCTCTGCTCCCCGGAGCTGGGGCACTGTCCC[GA]CGGACATGCGGGCTCTGGCCCTGTTCCTGTCCCGTAGCTCCGGGCTG TTCCTCCCGCCT
81402 1 A GCTTTGGACATGGCAAGGGGCATGGCA
81402 P C A ATGACGTGGCAGACCTTCCTACACACACTAGAGY
81402 P T A CGCGCCGAGGTTTCCTACACACACTAGAGCY
81402 T C A AGGGGCTCTAGTGTGTGTAGGAAGCCATGCCCCTTGCCATGTCCAAAGCAA
81402 T T A AGGGGCTCTAGTGTGTGTAGGAAAGCCATGCCCCTTGCCATGTCCAAAGCAA
81402 IS (CT) TTTCGTCGTGGACCAGAGCCAGGCTGTGAAGTTTGCTTTGGACATGGCCAGGGGCATGGC[CT]TTCCTACACACACTAGAGCCCCTCATCCCACGACATGCACTCAATAGC CGTAGTGTAATG BLK
81421 1 A GTTTGCTTTGTGTTCCTAACCCCCGACCTGAAAC
81421 P G A ATGACGTGGCAGACGGCCTGGAGCCCY
81421 P T A CGCGCCGAGGTGCCTGGAGCCCTY
81421 T G A TTGCAGGGCTCCAGGCTTTCAGGTCGGGGGTTAGGAACACAAAGCAAACA
81421 T T A TTGCAGGGCTCCAGGCATTTCAGGTCGGGGGTTAGGAACACAAAGCAAACA
81421 IS (GT) AGCTTTCACTGCTGCCATTCTCCCCTGGTTTGCTTTGTGTTCCTAACCCCCGACCTGAAA[GT]GCCTGGAGCCCTCCAAGGGCCTGGCCTCCGCCTGTCAGCGCTGGGGTTC TAGATGGAGGA
81430 1 S TGGCCTGCCCTTGTACCCCAGGAACA
81430 P G S ATGACGTGGCAGACCTTGTCCAGCTTGCTGY
81430 P A S CGCGCCGAGGTTTGTCCAGCTTGCTGY
81430 T G S ACAACAGCAAGCTGGACAAGGTTCCTGGGGGTACAAGGGCAGGCCAGG
81430 T A S ACAACAGCAAGCTGGACAAGGTTCCTGGGGTACAAGGGCAGGCCAGG
81430 IS (GA) CGTCCCCCAGAAGCGCGACCTGGAAGAGGAGCCCCTACTTCACAACAGCAAGCTGGACAAG[GA]GTTCCTGGGGTACAAGGGCAGGCCAGGTAAGGCTTGGGTGTTCCTGG GGTGCAAGGGCAG
81442 1 A CAACTGCAACAGATCCAGTATCACTTGCTGAACACC
81442 P G A ATGACGTGGCAGACGCACCTGGTGCTY
81442 P T A CGCGCCGAGGTCACCTGGTGGCTGY
81442 T G A ACCTCAGCCAACAGGTGCGTGTTCAGCAAGTGATACTGGATCTCCTGCAGTTGGA
81442 T T A ACCTCAGCCAACAGGTGAGTGTTCAGCAAGTGATACTGGATCTCCTGCAGTTGGA
81442 IS (GT) GTCCTGGGTCGGAAATTCAGATTTCCAACTGCACGAGATCCAGTATCACTTGCTGAACAC[GT]CACCTGGTGGCTGAGGTCATCGCTGTCGCCACCATGCGGTGCCTCCCA GGACTGCACCCC A1.0X12
81442 IS (GT)

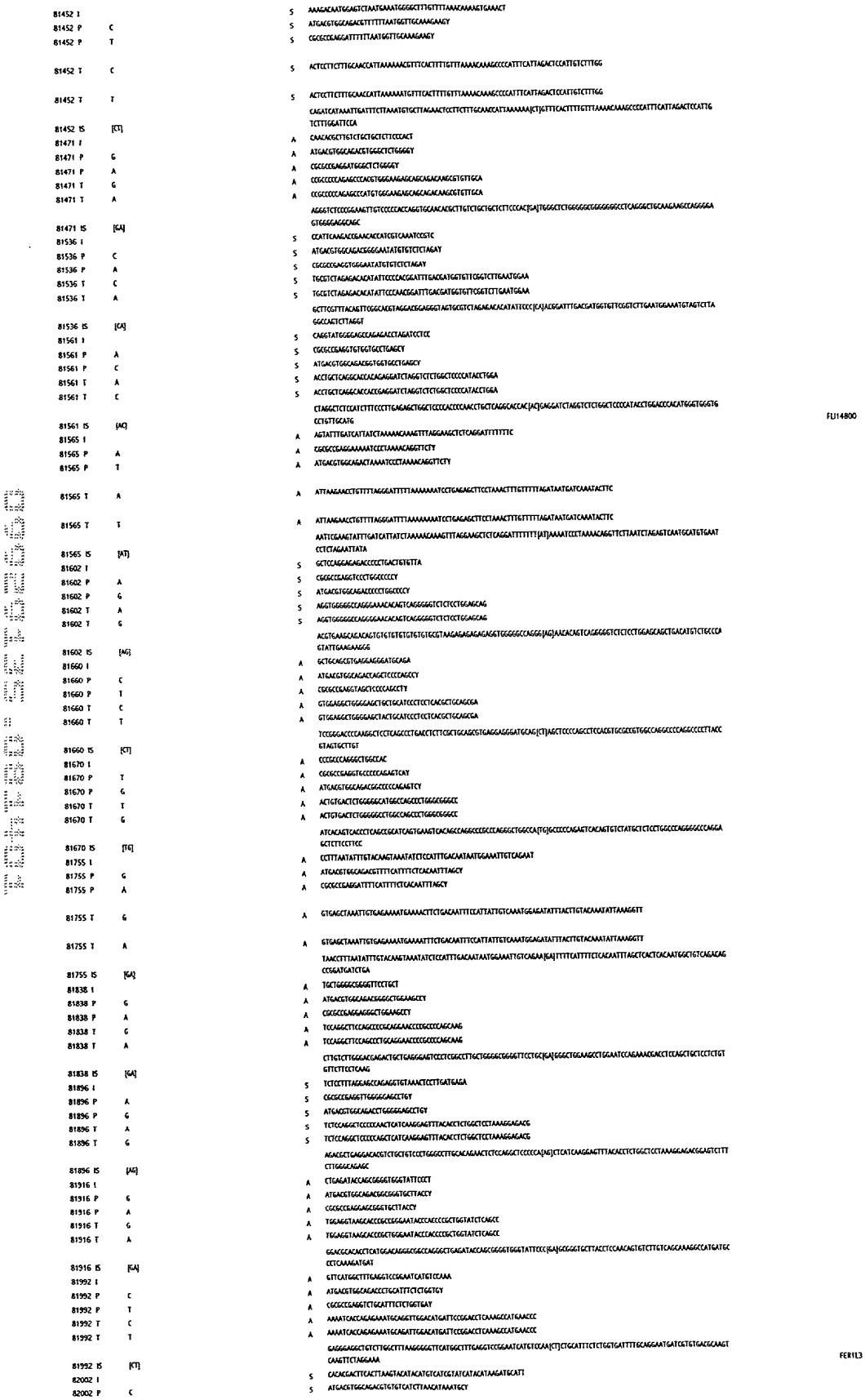

81452 I
81452 P C
81452 P T
81452 T C
81452 T T
81452 IS [CT]
81471 I
81471 P G
81471 P A
81471 T G
81471 T A
81471 IS [GA]
81536 I
81536 P C
81536 P A
81536 T C
81536 T A
81536 IS [CA]
81561 I
81561 P A
81561 P C
81561 T A
81561 T C
81561 IS [AC]
81565 I
81565 P A
81565 P T
81565 T A
81565 T T
81565 IS [AT]
81602 I
81602 P A
81602 P G
81602 T A
81602 T G
81602 IS [AG]
81660 I
81660 P C
81660 P T
81660 T C
81660 T T
81660 IS [CT]
81670 I
81670 P T
81670 P G
81670 T T
81670 T G
81670 IS [TG]
81755 I
81755 P G
81755 P A
81755 T G
81755 T A
81755 IS [GA]
81838 I
81838 P G
81838 P A
81838 T G
81838 T A
81838 IS [GA]
81896 I
81896 P A
81896 P G
81896 T A
81896 T G
81896 IS [AG]
81916 I
81916 P G
81916 P A
81916 T G
81916 T A
81916 IS [GA]
81992 I
81992 P C
81992 P T
81992 T C
81992 T T
81992 IS [CT]
82002 I
82002 P C
FLI14800
FER1L3

FIGURE 129C

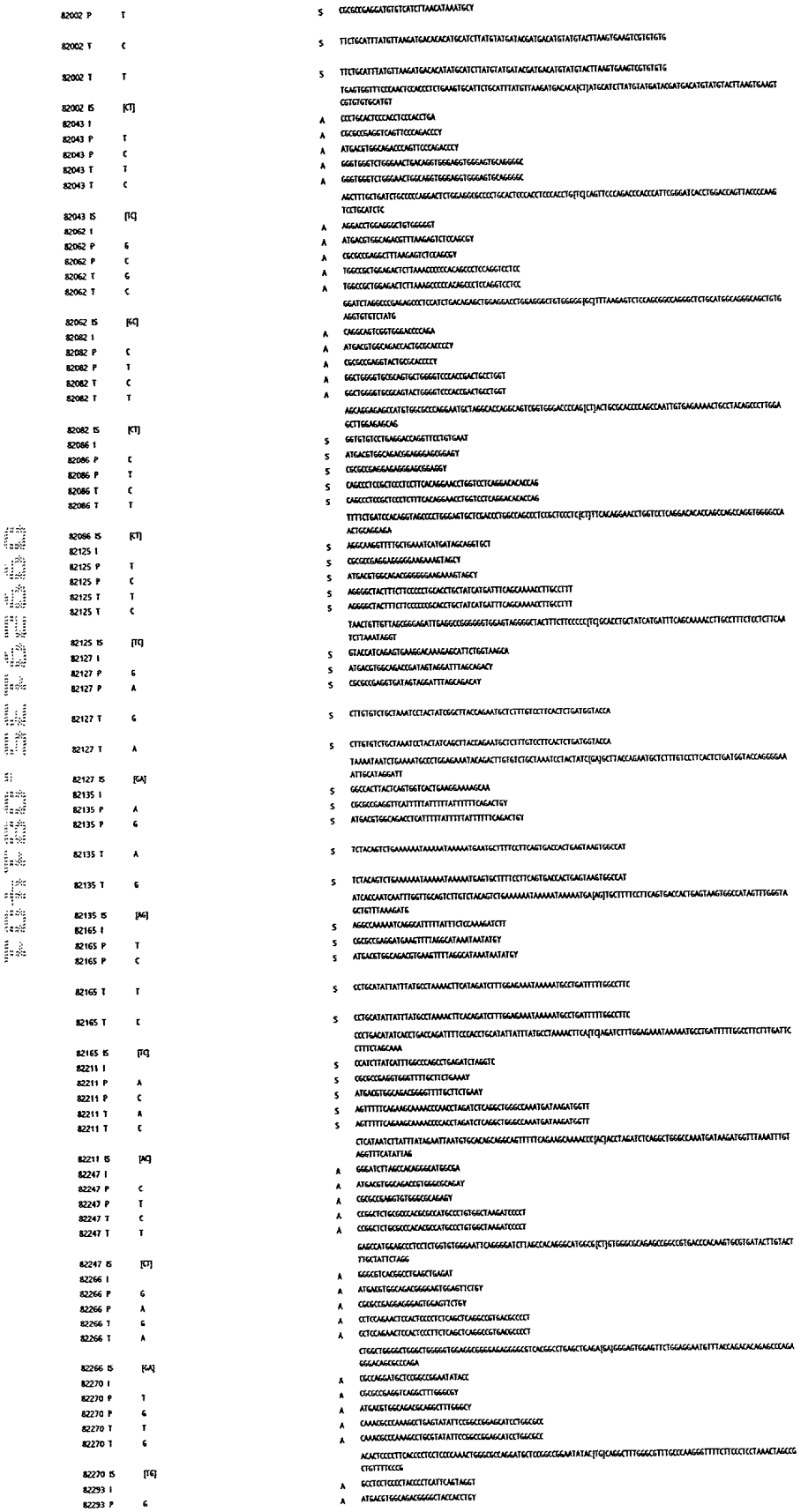
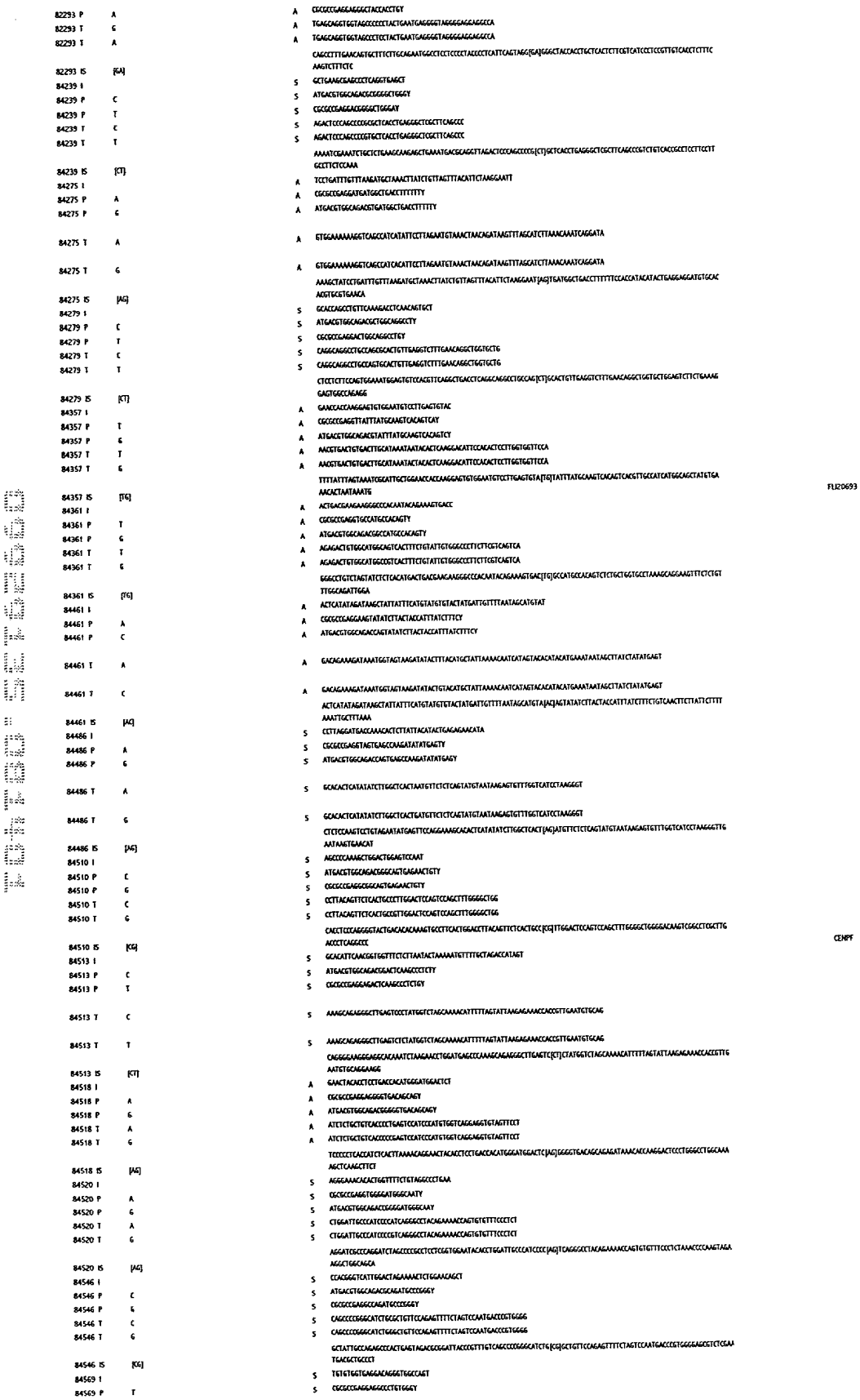


FIGURE 129C


82293 P A
82293 T G
82293 T A
82293 IS [GA]
84239 I
84239 P C
84239 P T
84239 T C
84239 T T
84239 IS [CT]
84275 I
84275 P A
84275 P G
84275 T A
84275 T G
84275 IS [AG]
84279 I
84279 P C
84279 P T
84279 T C
84279 T T
84279 IS [CT]
84357 I
84357 P T
84357 P G
84357 T T
84357 T G
84357 IS [TG]
84361 I
84361 P T
84361 P G
84361 T T
84361 T G
84361 IS [TG]
84461 I
84461 P A
84461 P C
84461 T A
84461 T C
84461 IS [AC]
84486 I
84486 P A
84486 P G
84486 T A
84486 T G
84486 IS [AG]
84510 I
84510 P C
84510 P G
84510 T C
84510 T G
84510 IS [CG]
84513 I
84513 P C
84513 P T
84513 T C
84513 T T
84513 IS [CT]
84518 I
84518 P A
84518 P G
84518 T A
84518 T G
84518 IS [AG]
84520 I
84520 P A
84520 P G
84520 T A
84520 T G
84520 IS [AG]
84546 I
84546 P C
84546 P G
84546 T C
84546 T G
84546 IS [CG]
84569 I
84569 P T
A CGCGCCGAGGAGGGCTACCACCTGY
A TGAGCAGGTGGTAGCCCCCCTACTGAATGAGGGGTAGGGGAGGAGGCCA
A TGAGCAGGTGGTAGCCCTCCTACTGAATGAGGGGTAGGGGAGGAGGCCA
CAGCCTTTGAACAGTGCTTTCTTGCAGAATGGCCTCCTCCCCTACCCCTCATTCAGTAGG[GA]GGGCTACCACCTGCTCACTCTTCGTCATCCCTCCGTTGTCAACTCTTTC
AAGTCTTTCTC
S GCTGAAGCGAGCCCTCAGGTGAGCT
S ATGACGTGGCAGACGCGGGGCTGGGY
S CGCGCCGAGGACGGGGCTGGGAY
S AGACTCCCAGCCCCGGCTCACCTGAGGGCTCGCTTCAGCCC
S AGACTCCCAGCCCCGTGCTCACCTGAGGGCTCGCTTCAGCCC
AAAATCGAAATCTGCTCTGAAGCAAGAGCTGAAATGACGCAGGTTAGACTCCCAGCCCCG[CT]GCTCACCTGAGGGCTCGCTTCAGCCCGTCTGTCACCGCCTCCTTCCTT
GCCTTCTCCAAA
A TCCTGATTTGTTTAAGATGCTAAACTTATCTGTTAGTTTACATTCTAAGGAATT
A CGCGCCGAGGATGATGGCTGACCTTTTTTY
A ATGACGTGGCAGACGTGATGGCTGACCTTTTTY
A GTGGAAAAAAGGTCAGCCATCATATTCCTTAGAATGTAAACTAACAGATAAGTTTAGCATCTTAAACAAATCAGGATA
A GTGGAAAAAAGGTCAGCCATCACATTCCTTAGAATGTAAACTAACAGATAAGTTTAGCATCTTAAACAAATCAGGATA
AAAGCTATCCTGATTTGTTTAAGATGCTAAACTTATCTGTTAGTTTACATTCTAAGGAATJAG]TGATGGCTGACCTTTTTTCCACCATACATACTGAGGAGGATGTGCAC
ACGTGCGTGAACA
S GCACCAGCCTGTTCAAAGACCTCAACAGTGCT
S ATGACGTGGCAGACGCTGGCAGGCCTY
S CGCGCCGAGGACTGGCAGGCCTGY
S CAGGCAGGCCTGCCAGCGCACTGTTGAGGTCTTTGAACAGGCTGGTGCTG
S CAGGCAGGCCTGCCAGTGCACTGTTGAGGTCTTTGAACAGGCTGGTGCTG
CTCCTCTTCCAGTGGAAATGGAGTGTCCAGTTCAGGCTGACCTCAGGCAGGCCTGCCAG[CT]GCACTGTTGAGGTCTTTGAACAGGCTGGTGCTGGAAGTCTTCTGAAAG
GAGTGGCCAGAGG
A GAACCACCAAGGAGTGTGGAATGTCCTTGAGTGTAC
A CGCGCCGAGGTTATTTATGCAAGTCACAGTCAY
A ATGACGTGGCAGACGTATTTATGCAAGTCACAGTCY
A AACGTGACTGTGACTTGCATAAATAATACACTCAAGGACATTCCACACTCCTTGGTGGTTCCA
A AACGTGACTGTGACTTGCATAAATACTACACTCAAGGACATTCCACACTCCTTGGTGGTTCCA
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AACACTAATAAATG
A ACTGACGAAGAAGGGCCCACAATACAGAAAGTGACC
A CGCGCCGAGGTGCCATGCCACAGTY
A ATGACGTGGCAGACGGCCATGCCACAGTY
A AGAGACTGTGGCATGGCAGTCACTTTCTGTATTGTGGGCCCTTCTTCGTCAGTCA
A AGAGACTGTGGCATGGCAGTCACTTTCTGTATTGTGGGCCCTTCTTCGTCAGTCA
GGGCCTGTCTAGTATCTCTCACATGACTGACGAACAAGGGCCCACAATACAGAAAGTGAC[TG]GCCATGCCACAGTCTCTGCTGGTGCCTAAAGCAGGAAGTTTCTCTGT
TTGGCAGATTGGA
A ACTCATATAGATAAGCTATTATTTCATGTATGTGTACTATGATGTTGTTTAATAGCATGTAT
A CGCGCCGAGGAAGTATATCTTACTACCATTTATCTTTCY
A ATGACGTGGCAGACCAGTATATCTTACTACCATTTATCTTTCY
A GACAGAAAGATAAATGGTAGTAAGATATACTTTACATGCTATTAAAACAATCATAGTACACATACATGAAATAATAGCTTATCTATATGAGT
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ACTCATATAGATAAGCTATTATTTCATGTATGTGTACTATGATTGTTTAATAGCATGTA[AC]AGTATATCTTACTACCATTTATCTTTCTGTCAACTTCTTATTCTTTT
AAATTGCTTTAAA
S CCTTAGGATGAGCAAACACTCTTATTACATACTGAGAGAACATA
S CGCGCCGAGGTAGTGAGCCAAGATATATGAGTY
S ATGACGTGGCAGACCAGTGAGCCAAGATATATGAGY
S GCACACTCATATATCTTGGCTCACTAATGTTCTCTCAGTATGTAATAAGAGTGTTTGGTCATCCTAAGGGT
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CTCTCCAAGTCCTGTAGAATATGAGTTCCAGGAAAGCACACTCATATATCTTGGCTCACT[AG]ATGTTCTCTCAGTATGTAATAAGAGTGTTTGGTCATCCTAAGGGTTG
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S CGCGCCGAGGCGGCAGTGAGAACTGTY
S CCTTACAGTTCTCACTGCCCTTGGACTCCAGTCCAGCTTTGGGGCTGG
S CCTTACAGTTCTCACTGCCGTTGGACTCCAGTCCAGCTTTGGGGCTGG
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ACCCTCAGGCCC
S GCACATTCAACGGTGGTTTCTCTTAATACTAAAAATGTTTTGCTAGACCATAGT
S ATGACGTGGCAGACGGACTCAAGCCCTCTY
S CGCGCCGAGGAGACTCAAGCCCTCTGY
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A GAACTACACCTCCTGACACATGGGATGGACTCT
A CGCGCCGAGGAGGGGTGACAGCAGT
A ATGACGTGGCAGACGGGGGTGACAGCAGY
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A ATCTCTGCTGTCACCCCGAGTCCATCCCATGTGGTCAGGAGGTGTAGTTCCT
TCCCCCTCACCATCTCACTTAAAACAGGAACTACACCTCCTGACCACATGGGATGGACTC[AG]GGGGTGACAGCAGAGATAAACACCAAGGACTCCCTGGGCCTGGCAAA
AGCTCAAGCTTCT
S AGGGAAACACACTGGTTTCTGTAGGCCCTGAA
S CGCGCCGAGGTGGGGATGGGCAATY
S ATGACGTGGCAGACGGGGATGGGCAAY
S CTGGATTGCCCATCCCCATCAGGGCCTACAGAAAACCAGTGTGTTCCCTCT
S CTGGATTGCCCATCCCCGTCAGGGCCTACAGAAAACCAGTGTGTTCCCTCT
AGGATCGCCCAGGATCTAGCCCCGCCTCCTCGGTGGAATACACCTGGATTGCCCATCCCC[AG]TCAGGGCCTACAGAAAACCAGTGTGTTTCCCTCTAAACCCCAAGTAGA
AGGCTGGCAGCA
S CCACGGGTCATTGGACTAGAAAACTCTGGAACAGCT
S ATGACGTGGCAGACGCAGATGCCCGGGY
S CGCGCCGAGGCCAGATGCCCGGGY
S CAGCCCCGGGCATCTGGGCTGTTCCAGAGTTTTCTAGTCCAATGACCCGTGGGG
S CAGCCCCGGGCATCTGGGCTGTTCCAGAGTTTTCTAGTCCAATGACCCGTGGGG
GCTATTGCCAGAGCCACTGAGTAGACGCGGATTACCCGTTGTCAGCCCCGGGGCATCTG[CG]GCTGTTCCAGAGTTTTCTAGTCCAATGACCCGTGGGGAGCGTCTCGAA
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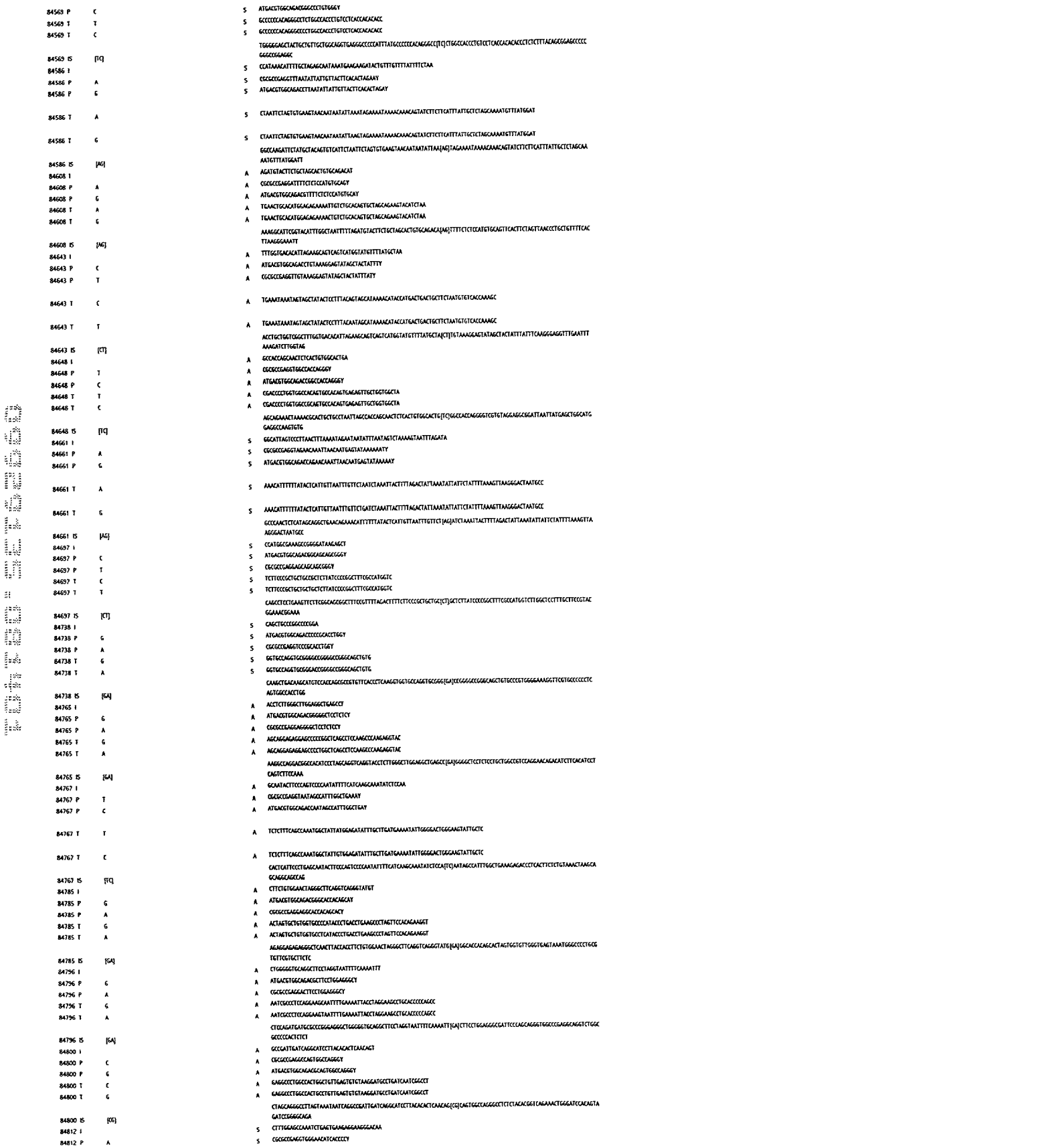

84569 P C S ATGACGTGGCGAGAGGGCCCTGTGGGY
84569 T T S GCCCCCCACAGGGCCTCTGGCCACCCTGTCCTCACCACACACC
84569 T C S GCCCCCCACAGGGCCCCTGGCCACCCTGTCCTCACCACACACC
84569 IS [TC] TGGGGGACTACTGCTGTTGCTGGCAGGTGAGGGCCCCCATTTATGCCCCCCACAGGGCC[TC]CTGGCCACCCTGTCCTCACCACACACCCTCTCTTTACAGGGGAGCCCCC GGGCCGGAGGC
84586 I S CCATAAACATTTTGCTAGAGCAATAAATGAAGAAGATACTGTTGTTTTATTTTCTAA
84586 P A S CGCGCCGAGGTTAATATTATTGTTACTTCACACTAGAAY
84586 P G S ATGACGTGGCAGACCTTAATATTATTGTTACTTCACACTAGAY
84586 T A S CTAATTCTAGTGTGAAGTAACAATAATATTAAATAGAAAATAAAACAAACAGTATCTTCTTCATTTATTGCTCTAGCAAAATGTTTATGGAT
84586 T G S CTAATTCTAGTGTGAAGTAACAATAATATTAAGTAGAAAATAAAACAAACAGTATCTTCTTCATTTATTGCTCTAGCAAAATGTTTATGGAT GGCCAAGATTCTATGCTACAGTGTCATTCTAATTCTAGTGTGAAGTAACAATATATTAA[AG]TAGAAAATAAAACAAACAGTATCTTCTTCATTTATTGCTCTAGCAA AATGTTTATGGATT
84586 IS [AG] A AGATGTACTTCTGCTAGCACTGTGCAGACAT
84608 I A S CGCGCCGAGGATTTTCTCTCCATGTGCAGY
84608 P A A ATGACGTGGCAGACGTTTTCTCTCCATGTGCAY
84608 P G A TCAACTGCACATGGAGACAAAATTGTCTGCACAGTGCTAGCAGAAGTACATCTAA
84608 T A A TGAACTGCACATGGAGACAAAACTGTCTGCACAGTGCTAGCAGAAGTACATCTAA
84608 T G A AAAGGCATTCGGTACATTTGGCTAATTTTTAGATGTACTTCTGCTAGCACTGTGCAGACA[AG]TTTTCTCTCCATGTGCAGTTCACTTCTAGTTAACCCTGCTGTTTTCAC TTAAGGGAAATT
84608 IS [AG] A TTTGGTGACACATTAGAAGCAGTCAGTCATGGTATGTTTTATGCTAA
84643 I A A ATGACGTGGCAGACCTGTAAAGGAGTATAGCTACTATTTY
84643 P C A CGCGCCGAGGTTGTAAAGGAGTATAGCTACTATTTATY
84643 P T A TGAAATAAATAGTAGCTATACTCCTTTACAGTAGCATAAAACATACCATGACTGACTGCTTCTAATGTGTCACCAAAGC
84643 T C A TGAAATAAATAGTAGCTATACTCCTTTACAATAGCATAAAACATACCATGACTGACTGCTTCTAATGTGTCACCAAAGC ACCTGCTGGTGGGCTTTGGTGACACATTAGAAGCAGTCAGTCATGGTATGTTTTATGCTA[CT]TGTAAAGAGTATAGCTACTATTTATTTCAAGGGAGGTTTGAATTT AAAGATCTTGGTAG
84643 T T A GCCACCAGCAACTCTCACTGTGGCACTGA
84643 IS [CT] A CGCGCCGAGGTGGCCACCAGGGY
84648 I A A ATGACGTGGCAGACCGGCCACCAGGGY
84648 P T A CGACCCCTGGTGGCCGCAGTGCCACAGTGAGAGTTGCTGGTGGCTA
84648 P C A CGACCCCTGGTGGCCGCAGTGCCACAGTGAGAGTTGCTGGTGGCTA AGCAGAAACTAAAACGCACTGCTGCCTAATTAGCCACCAGCAACTCTCACTGTGGCACTG[TC]GGCCACCAGGGGTCGTGTAGGAGGCGGATTAATTATGAGCTGGCATG GAGCCCAAGTGTG
84648 IS [TC] S GGCATTAGTCCCTTAACTTTAAAATAGAATAATATTTAATAGTCTAAAAGTAATTTAGATA
84661 I S S CGCGCCGAGGTAGAACAAATTAACAATGAGTATAAAAAATY
84661 P A S ATGACGTGGCAGACCAGAACAAATTAACAATGAGTATAAAAAT
84661 P G S AAACATTTTTTATACTCATTGTTAATTTGTTCTAATCTAAATTACTTTTAGACTATTAAATATTATTCTATTTTAAAGTTAAGGGACTAATGCC
84661 T A S AAACATTTTTTATACTCATTGTTAATTTGTTCTGATCTAAATTACTTTTAGACTATTAAATATTATTCTATTTTAAAGTTAAGGGACTAATGCC GCCCAACTCTCATAGCAGGCTGAACAGAAACATTTTTTATACTCATTGTTAATTTGTTCT[AG]ATCTAAATTACTTTTAGACTATTAAATATTATTCTATTTTAAAGTTA AGGGACTAATGCC
84661 T G S CCATGGCGAAAGCCGGGGATAAGAGCT
84661 IS [AG] S ATGACGTGGCAGACGGGAGCAGCGGGY
84697 I S S CGCGCCGAGGAGCAGCAGCGGGY
84697 P C S TCTTCCCGCTGCTGCCGCTCTTATCCCCGGCTTTCGCCATGGTC
84697 P T S TCTTCCCGCTGCTGCTGCTCTTATCCCCGGCTTTCGCCATGGTC CAGCCTCCTGAAGTTCCTCGGCAGCGGCTTTCCGTTTTAGACTTTTCTTCCCGCTGCTGC[CT]GCTCTTATCCCCGGCTTTCGCCATGGTCTTGGCTCCTTTGCTTCCGTAC GGAAACGGAAA
84697 IS [CT] S CAGCTGCCCGGCCCCGGA
84738 I S S ATGACGTGGCAGACCCCCCGCACCTGGY
84738 P G S CGCGCCGAGGTCCCGCACCTGGY
84738 P A S GGTGCCAGGTGCGGGGCCGGGGCCGGGCAGCTGTG
84738 T G S GGTGCCAGGTGCGGGGACCGGGGCCGGGCAGCTGTG CAAGCTGACAAGCATGTCCACCAGCGCCGTGTTCACCCTCAAGGTGGTGCCAGGTGCGGG[GA]CCCGGGGCCCGGGCAGCTGTGCCCGTGGGGAAAGGTTCGTGCCCCCTC AGTGGCCACCTGG
84738 IS [GA] A ACCTCTTGGGCTTGGAGGCTGAGCCT
84765 I A A ATGACGTGGCAGACGGGGGCTCCTCTCY
84765 P G A CGCGCCGAGGAGGGGCTCCTCTCCY
84765 P A A AGCAGGAGAGGAGCCCCCGGCTCAGCCTCCAAGCCCAAGAGGTAC
84765 T G A AGCAGGAGAGGAGCCCCCGGCTCAGCCTCCAAGCCCAAGAGGTAC AAGCCAGGACGGCCACATCCCTAGCAGGTCAGGTACCTCTTGGGCTTGGAGGCTGAGCC[GA]CGGGCTCCTCTCCTGCTGGCCGTCCAGGAACAGACATCTTCACATCCT CAGTCTTCCAAA
84765 IS [GA] A GCAATACTTCCCAGTCCCCAATATTTTCATCAAGCAAATATCTCCAA
84767 I A A CGGCCGAGGTAATAGCCATTTGGCTGAAAY
84767 P T A ATGACGTGGCAGACCAATAGCCATTTGGCTGAY
84767 P C A TCTCTTTCAGCCAAATGGCTATTATGGAGATATTTGCTTGATGAAAATATTGGGGACTGGGAAGTATTGCTC
84767 T T A TCTCTTTCAGCCAAATGGCTATTGTGGAGATATTTGCTTGATGAAAATATTGGGGACTGGGAAGTATTGCTC CACTCATTCCCTGAGCAATACTTCCCAGTCCCCAATATTTTCATCAAGCAAATATCTCCA[TC]AATAGCCATTTGGCTGAAAGAGACCCTCACTTCTCTGTAAACTAAGCA GCAGGCAGCCAG
84767 T C A CTTCTGTGGAACTAGGGCTTCAGGTCAGGGTATGT
84767 IS [TC] A ATGACGTGGCAGACGGGCACCACAGCAY
84785 I A A CGGGCCGAGAGAGGCACCACAGCACY
84785 P G A ACTAGTGCTGTGGTGCCCATACCCTGACCTGAAGCCCTAGTTCCACAGAAGGT
84785 P A A ACTAGTGCTGTGGTGCCTCATACCCTGACCTGAAGCCCTAGTTCCACAGAAGGT AGAGGAGAGAGGGCTCAACTTACCACCTTCTGTGGAACTAGGGCTTCAGGTCAGGGTATG[GA]GGCACCACAGCACTAGTGGTGTTGGGTGAGTAAATGGGCCCCTGCG TGTTCGTGCTTCTC
84785 T G A CTGGGGGTGCAGGCTTCCTAGGTAATTTTCAAAATTT
84785 T A A ATGACGTGGCAGACGCTTCCTGGAGGGCT
84785 IS [GA] A CGCGCCGAGGACTTCCTGGAGGGCY
84796 I A A AATCGCCCTCCAGGAAGCAATTTTGAAAATTACCTAGGAAGCCTGCACCCCCAGCC
84796 P G A AATCGCCCTCCAGGAAGTAATTTTGAAAATTACCTAGGAAGCCTGCACCCCCAGCC CTCCAGATGATGCGCCCGGGAGGGCTGGGGGTGCAGGCTTCCTAGGTAATTTTCAAAATT[GA]CTTCCTGGAGGGCGATTCCCAGCAGGGTGGCCCGAGGCAGGTCTGGC GCCCCCACTCTCT
84796 P A A GCCGATTGATCAGGCATCCTTACACACTCAACAGT
84796 T G A CGCGCCGAGGCCAGTGGCCAGGGY
84796 T A A ATGACGTGGCAGACGCCAGTGGCCAGGGT
84796 IS [GA] A GAGGCCCTGGCCACTGGCTGTTGAGTGTGTAAGGATGCCTGATCAATCGGCCT
84800 I A A GAGGCCCTGGCCACTGCCTGTTGAGTGTGTAAGGATGCCTGATCAATCGGCCT CTAGCAGGGCCTTAGTAAATAATCAGGCCGATTGATCAGGCATCCTTACACACTCAACAG[CG]CAGTGGCCAGGGCCTCTCTACACGGTCAGAAACTGGGATCCACAGTA GATCCGGGGCAGA
84800 P C S CTTTGGAGCCAAATCTGAGTGAAGAGGAAGGGACAA
84800 P G S CGCGCCGAGGTGGGAACATCACCCY
84800 T C
84800 T G
84800 IS [CG]
84812 I
84812 P A

FIGURE 129C

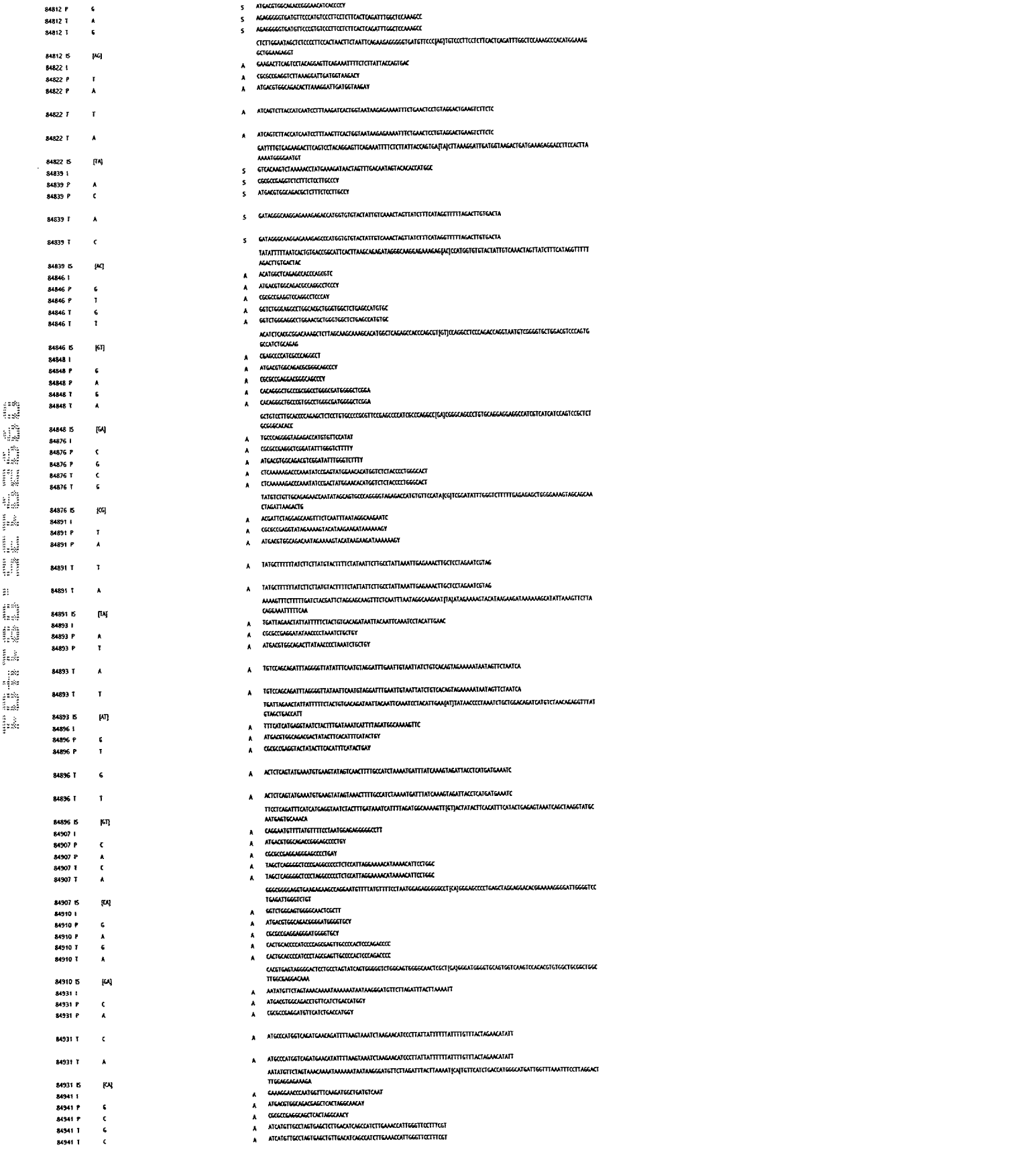


FIGURE 129C

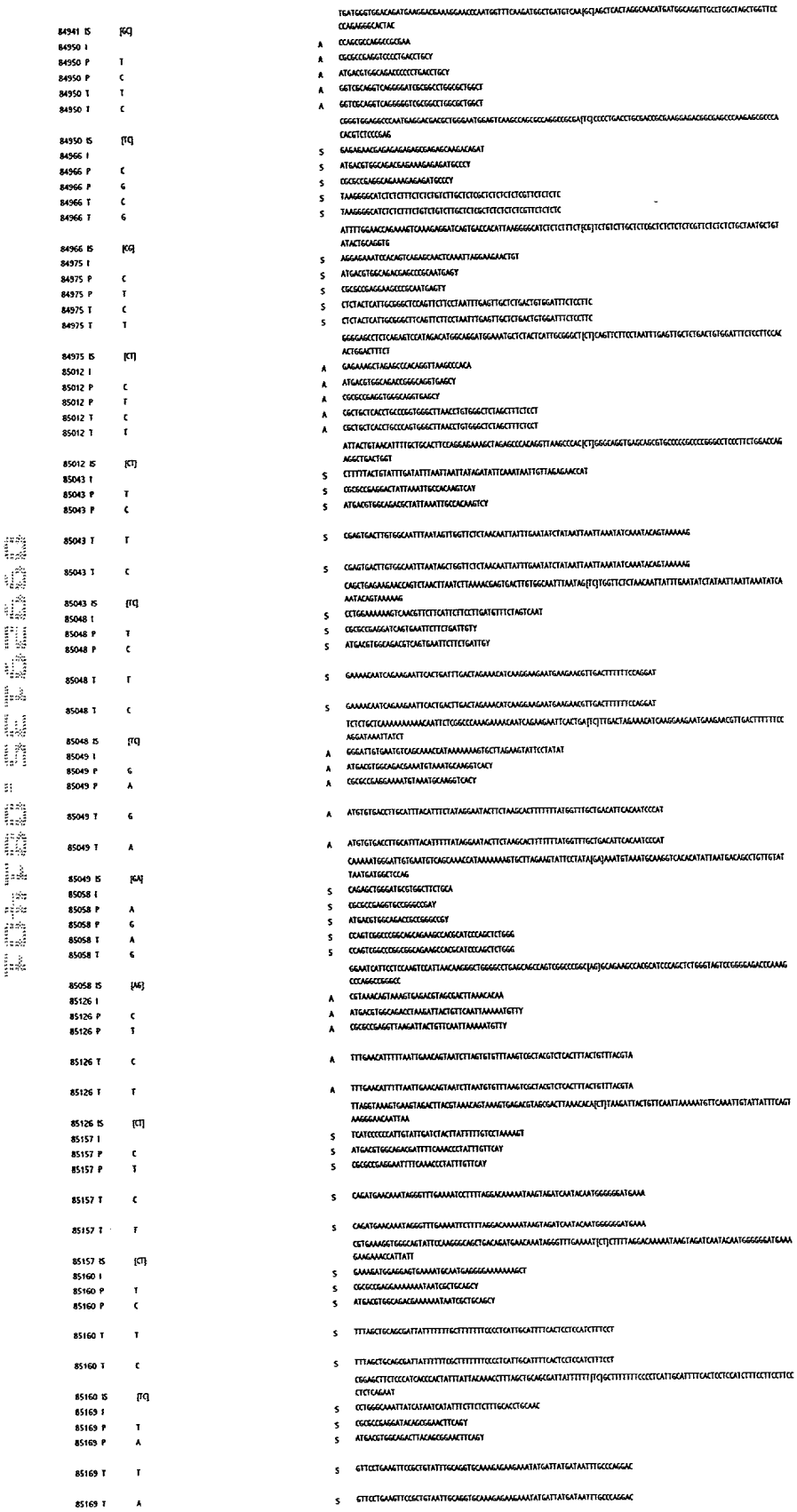
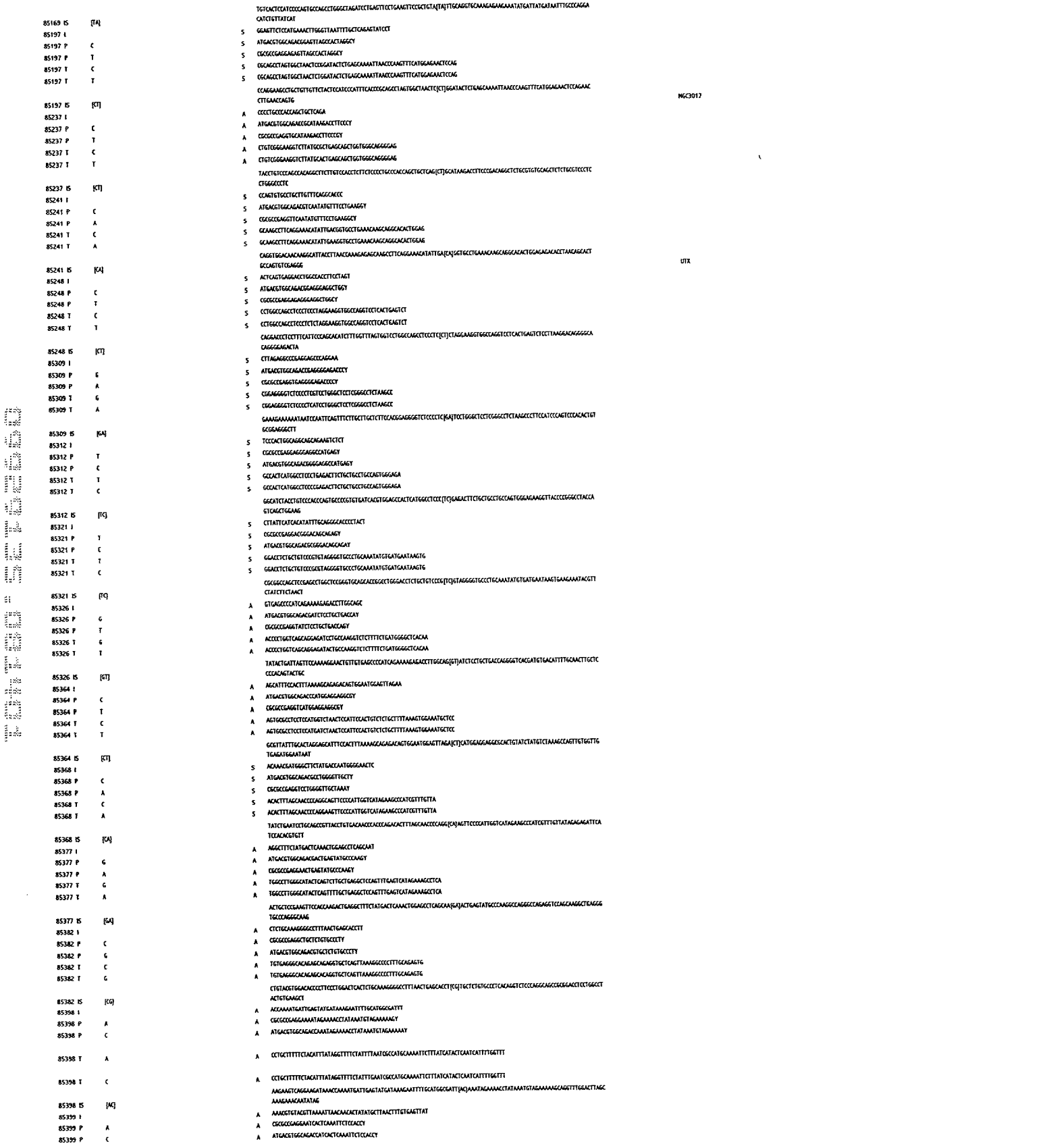


FIGURE 129C



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FIGURE 129C

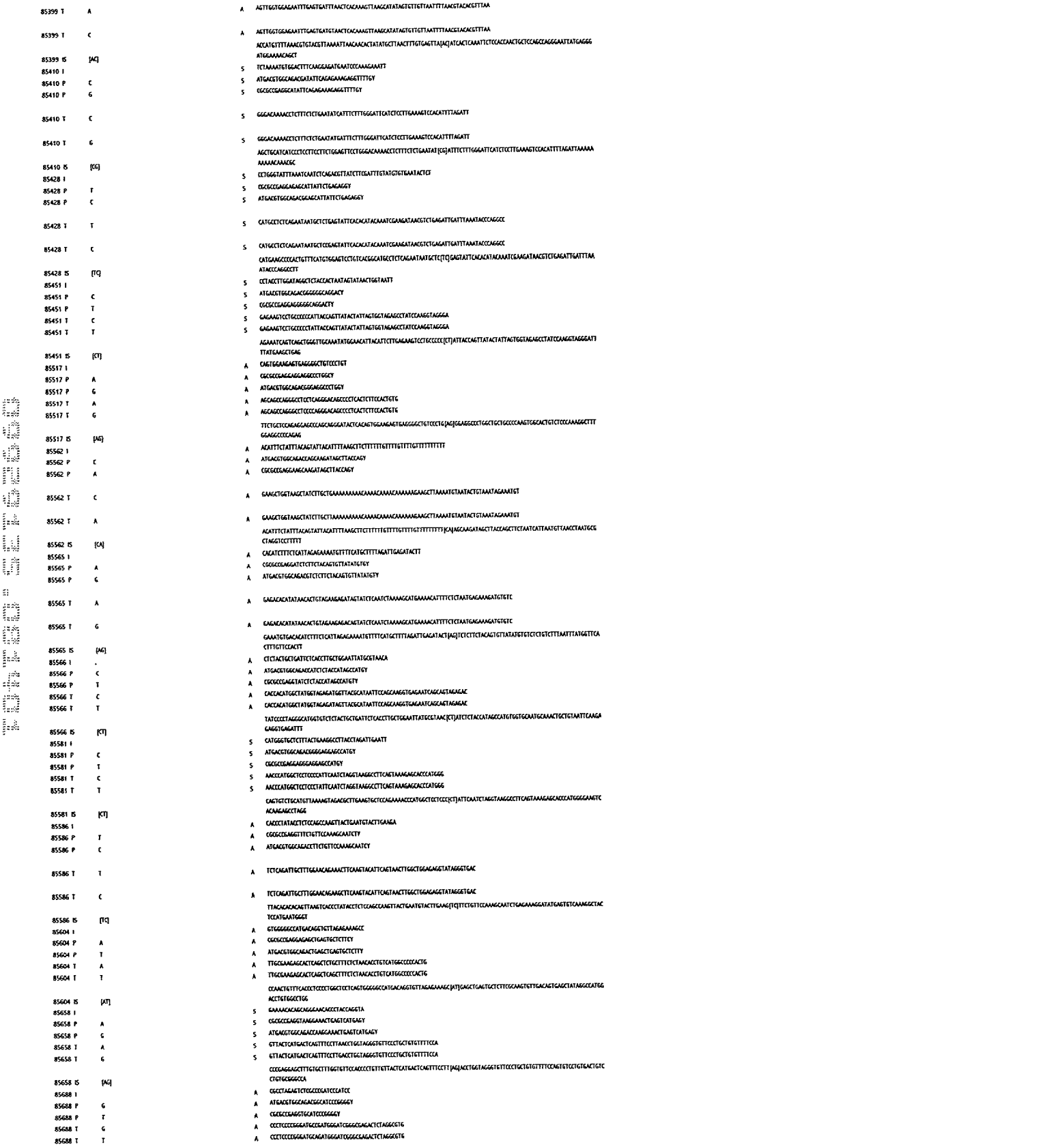

85399 T A
A AGTTGGTGGAGAATTTGAGTGATTTAACTCACAAAGTTAAGCATATAGTGTTGTTAATTTTAACGTACACGTTTAA
85399 T C
A AGTTGGTGGAGAATTTGAGTGATGTAACTCACAAAGTTAAGCATATAGTGTTGTTAATTTTAACGTACACGTTTAA
ACCATGTTTAAACGTGTACGTTAAAATTAACAACACTATATGCTTAACTTTGTGAGTTA[AC]ATCACTCAAATTCTCCACCAACTGCTCCAGCCAGGGAATTATGAGGG
ATGGAAAACAGCT
85399 IS [AC]
85410 I
S TCTAAAATGTGGACTTTCAAGGAGATGAATCCCAAAGAAATT
85410 P C
S ATGACGTGGCAGACGATATTCAGAGAAAGAGGTTTGY
85410 P G
S CGCGCCGAGGCATATTCAGAGAAAGAGGTTTGY
85410 T C
S GGGACAAAACCTCTTTCTCTGAATATCATTTCTTTGGGATTCATCTCCTTGAAAGTCCACATTTTAGATT
85410 T G
S GGGACAAAACCTCTTTCTCTGAATATGATTTCTTTGGGATTCATCTCCTTGAAAGTCCACATTTTAGATT
AGCTGCATCATCCCTCCTTCCTTCTGGAGTTCCTGGGACAAAACCTCTTTCTCTGAATAT[CG]ATTTCTTTGGGATTCATCTCCTTGAAAGTCCACATTTTAGATTAAAAA
AAAACAAACGC
85410 IS [CG]
85428 I
S CCTGGGTATTTAAATCAATCTCAGAGTTATCTTCGATTTGTATGTGTGAATACTCT
85428 P T
S CGCGCCGAGGAGAGCATTATTCTGAGAGGY
85428 P C
S ATGACGTGGCAGACGGAGCATTATTCTGAGAGGY
85428 T T
S CATGCCTCTCAGAATAATGCTCTGAGTATTCACACATACAAATCGAAGATAACGTCTGAGATTGATTTAAATACCCAGGCC
85428 T C
S CATGCCTCTCAGAATAATGCTCCGAGTATTCACACATACAAATCGAAGATAACGTCTGAGATTGATTTAAATACCCAGGCC
CATGAAGCCCCACTGTTTCATGTGGAGTCCTGTCACGGCATGCCTCTCAGAATAATGCTC[TC]GAGTATTCACACATACAAATCGAAGATAACGTCTGAGATTGATTTAA
ATACCCAGGCCTT
85428 IS [TC]
85451 I
S CCTACCTTGGATAGGCTCTACCACTAATAGTATAACTGGTAATT
85451 P C
S ATGACGTGGCAGACGGGGGGCAGGACY
85451 P T
S CGCGCCGAGGAGGGGGCAGGACTY
85451 T C
S GAGAAGTCCTGCCCCCATTACCAGTTATACTATTAGTGGTAGAGCCTATCCAAGGTAGGGA
85451 T T
S GAGAAGTCCTGCCCCCTATTACCAGTTATACTATTAGTGGTAGAGCCTATCCAAGGTAGGGA
AGAAATCAGTCAGCTGGGTTGCAAATATGGAACATTACATTCTTGAGAAGTCCTGCCCCC[CT]ATTACCAGTTATACTATTAGTGGTAGAGCCTATCCAAGGTAGGGATT
TTATGAAGCTGAG
85451 IS [CT]
85517 I
A CAGTGGAAGAGTGAGGGGCTGTCCCTGT
85517 P A
A CGCGCCGAGGAGGAGGGCCCTGGCY
85517 P G
A ATGACGTGGCAGACGGGAGGCCCTGGY
85517 T A
A AGCAGCCAGGGCCTCCTCAGGGACAGCCCCTCACTCTTCCACTGTG
85517 T G
A AGCAGCCAGGGCCTCCCAGGGACAGCCCCTCACTCTTCCACTGTG
TTCTGCTCCAGAGCAGCCCAGCAGGGATACTCACAGTGGAAGAGTGAGGGGCTGTCCCTG[AG]GGAGGCCCTGGCTGCTGCCCAAGTGGCACTGCTCTCCCAAAGGCTTT
GGAGGCCCCAGAG
85517 IS [AG]
85562 I
A ACATTTCTATTTACAGTATTACATTTTAAGCTCTTTTTTGTTTTGTTTTGTTTTTTTTT
85562 P C
A ATGACGTGGCAGACAGCAAGATAGCTTACCAGY
85562 P A
A CGCGCCGAGGAAGCAAGATAGCTTACCAGY
85562 T C
A GAAGCTGGTAAGCTATCTTGCTGAAAAAAAAACAAAACAAAACAAAAAGAAGCTTAAAATGTAATACTGTAAATAGAAATGT
85562 T A
A GAAGCTGGTAAGCTATCTTGCTAAAAAAAAACAAAACAAAACAAAAAGAAGCTTAAAATGTAATACTGTAAATAGAAATGT
ACATTTCTATTTACAGTATTACATTTTAAGCTTCTTTTTTGTTTTGTTTTGTTTTTTTT[CA]AGAAGATAGCTTACCAGCTTCTAATCATTAATGTTAACCTAATGCG
85562 IS [CA]
CTAGGTCCTTTTT
85565 I
A CACATCTTTCTCATTAGAGAAAATGTTTTCATGCTTTTAGATTGAGATACTT
85565 P A
A CGCGCCGAGGATCTCTTCTACAGTGTTATATGTGY
85565 P G
A ATGACGTGGCAGACGTCTCTTCTACAGTGTTATATGTY
85565 T A
A GAGACACATATAACACTGTAGAAGAGATAGTATCTCAATCTAAAAGCATGAAAACATTTTCTCTAATGAGAAAGATGTGTC
85565 T G
A GAGACACATATAACACTGTAGAAGAGACAGTATCTCAATCTAAAAGCATGAAAACATTTTCTCTAATGAGAAAGATGTGTC
GAAATGTGACACATCTTTCTCATTAGAGAAAATGTTTTCATGCTTTTAGATTGAGATACT[AG]TCTCTTCTACAGTGTTATATGTGTCTCTGTCTTTAATTTATGGTTCA
CTTTGTTCCACTT
85565 IS [AG]
85566 I .
A CTCTACTGCTGATTCTCACCTTGCTGGAATTATGCGTAACA
85566 P C
A ATGACGTGGCAGACGCATCTCTACCATAGCCATGY
85566 P T
A CGCGCCGAGGTATCTCTACCATAGCCATGTY
85566 T C
A CACCACATGGCTATGGTAGAGATGGTTACGCATAATTCCAGCAAGGTGAGAATCAGCAGTAGAGAC
85566 T T
A CACCACATGGCTATGGTAGAGATAGTTACGCATAATTCCAGCAAGGTGAGAATCAGCAGTAGAGAC
TATCCCCTAGGGCATGGTGTCTCTACTGCTGATTCTCACCTTGCTGGAATTATGCGTAAC[CT]ATCTCTACCATAGCCATGTGGTGCAATGCAAACTGCTGTAATTCAAGA
GAGGTGAGATTT
85566 IS [CT]
85581 I
S CATGGGTGCTCTTTACTGAAGGCCTTACCTAGATTGAATT
85581 P C
S ATGACGTGGCAGACGGGGAGGAGCCATGY
85581 P T
S CGCGCCGAGGAGGGAGGAGCCATGY
85581 T C
S AACCCATGGCTCCTCCCCATTCAATCTAGGTAAGGCCTTCAGTAAAGAGCACCCATGGG
85581 T T
S AACCCATGGCTCCTCCCTATTCAATCTAGGTAAGGCCTTCAGTAAAGAGCACCCATGGG
CAGTGTCTGCATGTTAAAAGTAGACGCTTGAAGTGCTCCAGAAAACCCATGGCTCCTCCC[CT]ATTCAATCTAGGTAAGGCCTTCAGTAAAGAGCACCCATGGGGAAGTC
ACAAGAGCCTAGG
85581 IS [CT]
85586 I
A CAGCCTATACCTCTCCAGCCAAGTTACTGAATGTACTTGAAGA
85586 P T
A CGGGCCGAGGTTTCTGTTCCAAAGCAATCTY
85586 P C
A ATGACGTGGCAGACCTTCTGTTCCAAAGCAATCY
85586 T T
A TCTCAGATTGCTTTGGAACAGAAACTTCAAGTACATTCAGTAACTTGGCTGGAGAGGTATAGGGTGAC
85586 T C
A TCTCAGATTGCTTTGGAACAGAAGCTTCAAGTACATTCAGTAACTTGGCTGGAGAGGTATAGGGTGAC
TTACACACACAGTTAAGTCACCCTATACCTCTCCAGCCAAGTTACTGAATGTACTTGAAG[TC]TTCTGTTCCAAAGCAATCTGAGAAAGGATATGAGTGTCAAAGGCTAC
TCCATGAATGGGT
85586 IS [TC]
85604 I
A GTGGGGGCCATGACAGGTGTTAGAGAAAGCC
85604 P A
A CGCGCCGAGGAGAGCTGAGTGCTCTTCY
85604 P T
A ATGACGTGGCAGACTGAGCTGAGTGCTCTTY
85604 T A
A TTGCGAAGAGCACTCAGCTCTGCTTTCTCTACACCTGTCATGGCCCCCACTG
85604 T T
A TTGCGAAGAGCACTCAGCTCAGCTTTCTCTACACCTGTCATGGCCCCCACTG
CCAACTGTTTCACCCTCCCCTGGCTCCTCAGTGGGGGCCATGACAGGTGTTAGAGAAAGC[AT]GAGCTGAGTGCTCTTCGCAAGTGTTGACAGTGAGCTATAGGCCATGG
ACCTGTGGCCTGG
85604 IS [AT]
85658 I
S GAAAACACAGCAGGCAACACCCTACCAGGTA
85658 P A
S CGCGCCGAGGTAAGGAAACTGAGTCATGAGY
85658 P G
S ATGAGGTGGCAGACCAAGGAAACTGAGTCATGAGY
85658 T A
S GTTACTCATGACTCAGTTTCCTTAACCTGGTAGGGTGTTCCCTGCTGTGTTTTCCA
85658 T G
S GTTACTCATGACTCAGTTTCCTTGACCTGGTAGGGTGTTCCCTGCTGTGTTTTCCA
CCCGAGGAGCTTTGTGCTTTGGTGTTCCACCCCTGTTGTTACTCATGACTCAGTTTCCTT[AG]ACCTGGTAGGGTGTTCCCTGCTGTGTTTTCCAGTGTCCTGTGACTGTC
CTGTGCGGGCCA
85658 IS [AG]
85688 I
A CGCCTAGAGTCTCCCCCGATCCCATCC
85688 P G
A ATGACGTGGCAGACGGCATCCCGGGGY
85688 P T
A CGCGCCGAGGTGCATCCCGGGGY
85688 T G
A CCCTCCCCGGGATGCCGATGGGATCGGGCCAGACTCTAGGCGTG
85688 T T
A CCCTCCCCGGGATGCAGATGGGATCGGGCCAGACTCTAGGCGTG

FIGURE 129C

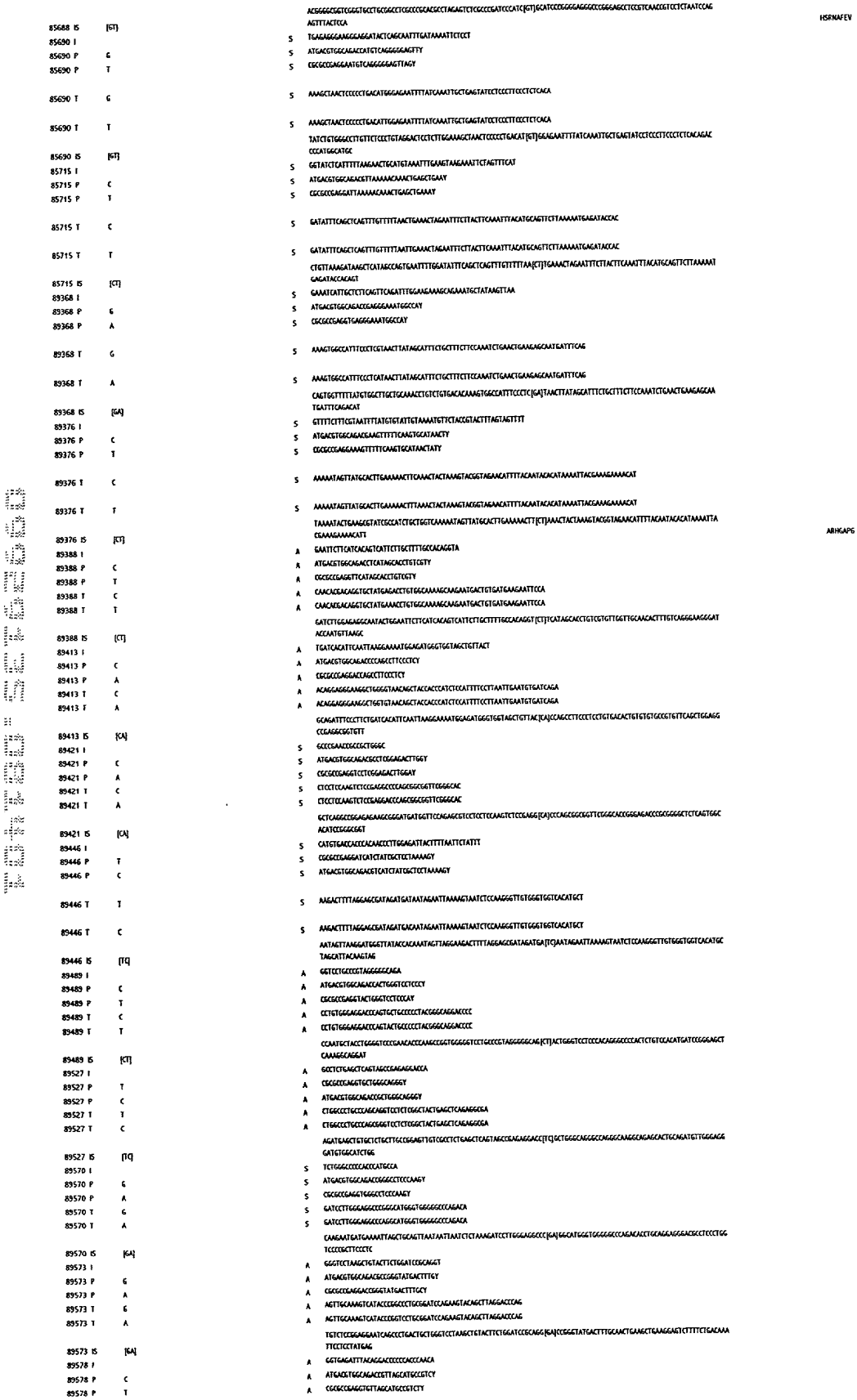
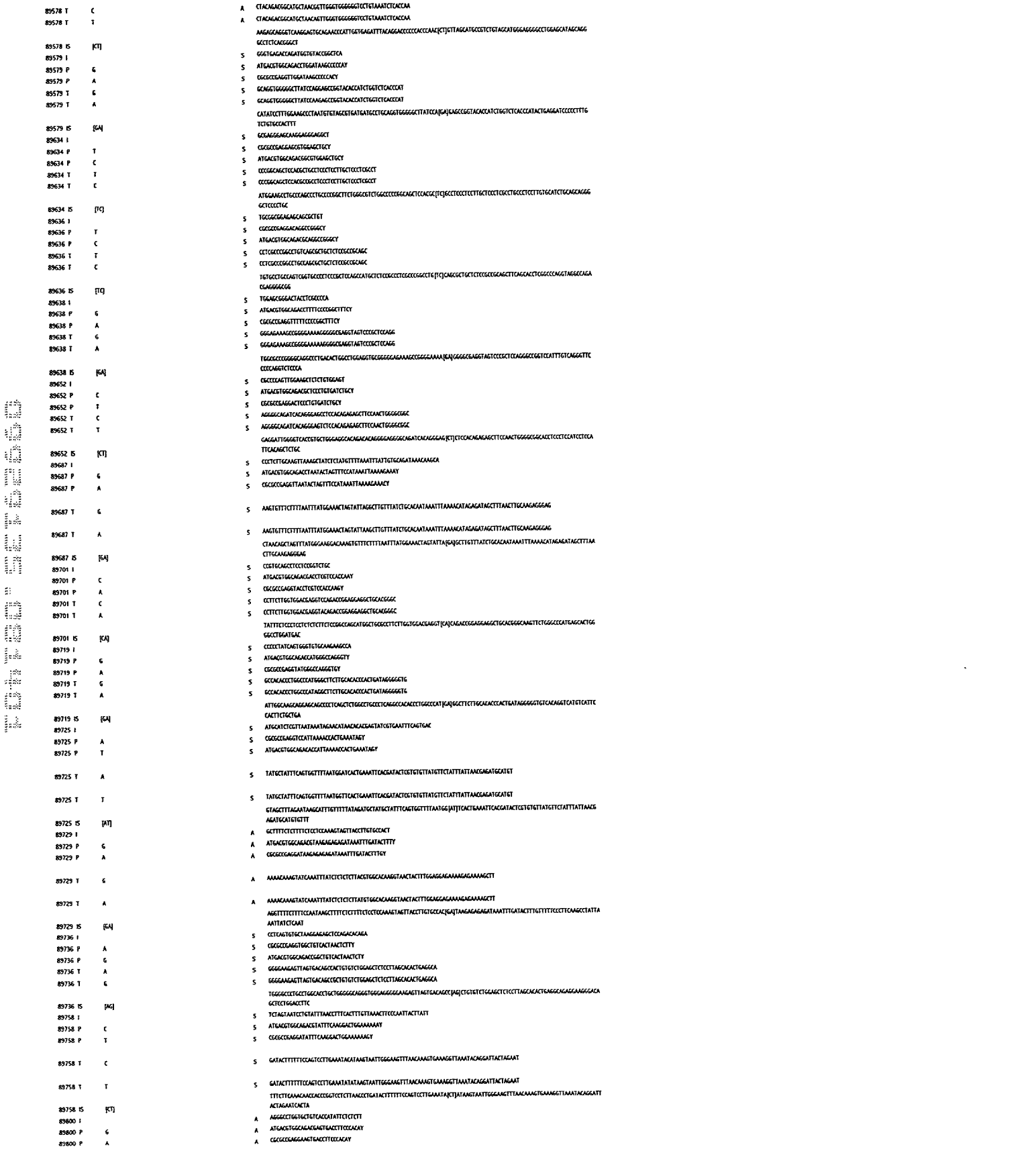


FIGURE 129C





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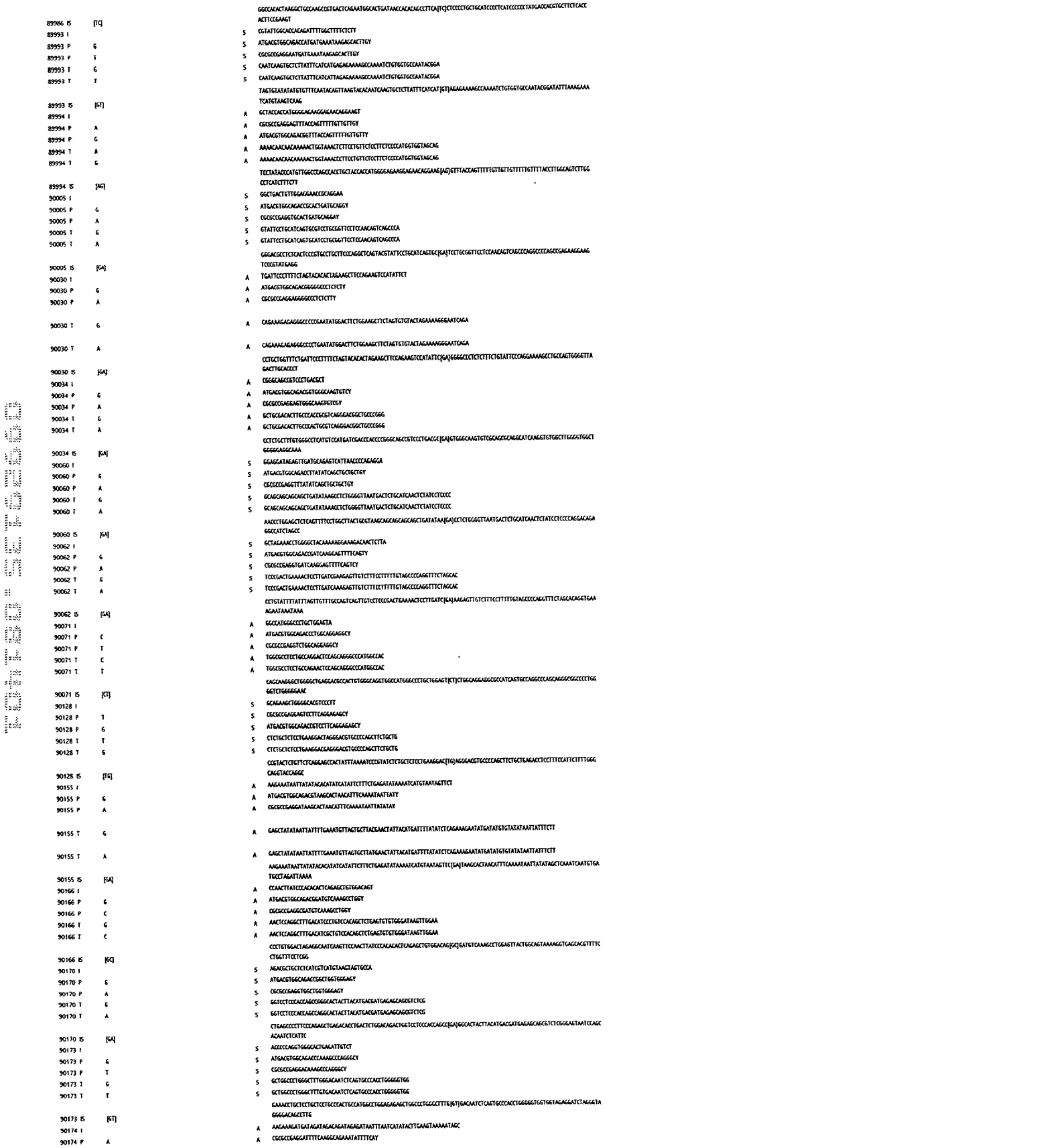


FIGURE 129C


90174 P T A ATGACGTGGCAGACTTTTTCAAGGCAGAAATATTTTCAY
90174 I A A TGTGTGAAAATATTTCTGCCTTGAAAATCTATTTTTACTTCAAGTATATGATTAAATTATCTCTATCTGTCTATCTATCATCTTTCTT
90174 T T A TGTGTGAAAATATTTCTGCCTTGAAAAACTATTTTTACTTCAAGTATATGATTAAATTATCTCTATCTGTCTATCTATCATCTTTCTT
90174 IS [AT] AAGAAAGATGATAGATAGACAGATAGAGATAATTTAATCATATACTTGAAGTAAAAATAG[AT]TTTTCAAGGCAGAAATATTTTCACACATCTCCCAACACAAGATTTGAGATTGCTAAATA
90175 I A GGACTGCCGGCCACTTCATAGGTGGAC
90175 P G A ATGACGTGGCAGACGCACAGAGGTGCTGY
90175 P T A CGCGCCCAGGTCACACAGGTGCTGGY
90175 T G A GGAGCCAGCACCTCTGTGCTCCACCTATGAAGTGGCCGGCAGTCCTT
90175 T T A GGAGCCAGCACCTCTGTGATCCACCTATGAAGTGGCCGGCAGTCCTT
90175 IS [GT] ACCCAGGAGACCTCAGCTCACACCCTCCTGGGAAGGACTGCCGGCCACTTCATAGGTGGA[GT]CACAGAGGTGCTGGCTCCACCCCCTGTGTGTGCGTGGCACTCTGTAGTCACCAGCCTGGC
90210 I A TGCTTTGCTGTTTGTCTCCTAGTTAAGGCTCTTTATAAAGAGCTTT
90210 P G A ATGACGTGGCAGAGGTTCTTCATGTTTTAAGCACTTY
90210 P C A CGCGCCGAGGCTTCTTCATGTTTTAAGCACTTY
90210 T G A CATAAAGTGCTTAAAACATGAAGAACAAGCTCTTTATAAAGAGCCTTAACTAGGAAGACAAACAGCAAAGCAGA
90210 T C A CATAAAGTGCTTAAAACATGAAGAAGAAGCTCTTTATAAAGAGCCTTAACTAGGAAGACAAACAGCAAAGCAGA
90210 IS [GC] AGCAGGCATGGTTCTGCTTTGCTGTTTGTCTTCCTAGTTAAGGCTCTTTATAAAGAGACTT[GC]TCTTCATGTTTTAAGCACTTTATGAAGAATAAAACATTCATGTACTGCAGGTGGCTCTG
90221 I A GTCTTTTCCACTTACAATTAATGTAAATAAAGACTAGACTTTTAAGGAGTGGCAGAGCA
90221 P T A CGCGCCGAGGTATTTACAAACTTTTATAAAGATGAATGACY
90221 P C A ATGACGTGGCAGACCATTTACAAACTTTTATAAAGATGAATGAY
90221 T T A CAGAGTCATTCATCTTTATAAAAGTTTGTAAATAGCTCTGCCACTCCTTAAAAGTCTAGTCTTTATTTACATTAATTGTAAGTGGAAAAGACAA
90221 T C A CAGAGTCATTCATCTTTATAAAAGTTTGTAAATAGGCTCTGCCACTCCTTAAAAGTCTAGTCTTTATTTACATTAATTGTAAGTGGAAAAGACAA
90221 IS [TC] TTGTCTTTTCCACTTACAATTAATGTAAATAAAGACTAGACTTTTAAGGAGTGGCAGAGC[TC]ATTTACAAACTTTTATAAAGATGAATGACTCTGTAGACCAGGAGCAAAGTAAGAATATCA
90225 I A CTTCCCTGCCCCCTGGTGGCCT
90225 P G A ATGACGTGGCAGACGGAGGAAGGGATTTGTCAY
90225 P A A CGCGCCGAGGAGAGGAGAGGGATTTGTCATY
90225 T G A CCTCATGACAAATCCCTCCTCCGGCCACCAGGGGGCAGGGAAGCG
90225 T A A CCTCATGACAAATCCCTCCTCTGGCCACCAGGGGGCAGGGAAGCG
90225 IS [GA] GGGCGGGCGACCCACGTGGAAGGCCTTCCATGGGAGAGGCGCTTCCCTGCCCCCTGGTGGCC[GA]GAGGAGGGATTTGTCATGAGGCTCCGCTCAGAGCGAACGACAGCTGGGGGTGCATTTTCT
90251 I S CCCCCACAACATCGATCCAAGAGGGGGT
90251 P T S CGCGCCGAGGAGCTCAGTGGGCGY
90251 P C S ATGACGTGGCAGACGGCTCAGTGGGCGY
90251 T T S ACGCCGCCCACTGAGCTCCCCCTCTTGGATCCATGTTGTGGGGGCT
90251 T C S ACGCCGCCCACTGAGCCCCCCTCTTGGATCCATGTTGTGGGGGCT
90251 IS [TC] CGAGGCCATCAGCAGCAGCAACATGCCCATCGACAGGTAGCACAGCCGCCCCACTGAGC[TC]CCCCCTCTTGGATCCATGTTGTGGGGCTCGTCCTCCTCCTGTGGATAGCAATGCTGGGTCAG
90289 I S CAGGTGAGTTGGTTTTTTATCCTTTATAAATTTATTTATAGGTGAGAGTAGAATGT
90289 P T S CGCGCCGAGGAGAGTTTTATTTTAATTTTACATATCTGTAATY
90289 P C S ATGACGTGGCAGACGGAGTTTATTTTAATTTTACATATCTGTAY
90289 T T S ATAAATTACAGATATGTAAAATTAAAATAAAACTCTCATTCTACTCTCACCTATAAATAAATTTATAAAGGATAAAAAACCAACTCACCTGCC
90289 T C S ATAAATTACAGATATGTAAAATTAAAATAAAACTCCCATTCTACTCTCACCTATAAATAAATTTATAAAGGATAAAAAACCAACTCACCTGCC
90289 IS [TC] AGTGCTAGTGCTTCTGAATTTTTCAATAAATTACAGATATGTAAAATTAAAATAAAACTC[TC]CATTCTACTCTCACCTATAAATAAATTTATAAAGGATAAAAAACCAACTCACCTGCCTGT
90308 I S ACACBCCCAGAGCTCCAGCCTTCTA
90308 P G S ATGACGTGGCAGACGGCACTCTTCAGGGTGY
90308 P A S CGCGCCGAGGTGGACTCTTCAGGGTGY
90308 T G S CCTGCACCCTGAAGAGTCCCAGAAGGCTGGAGCCTCTGGGCGTGTGT
90308 T A S CCTGCACCCTGAAGAGTCCAAGAAGGCTGGAGCCTCTGGGCGTGTGT
90308 IS [GA] CCATTACCAGTTGATTGGTCCGTGAAGGCCCCAGGCTCCATCCTGCACCCTGAAGAGTCC[GA]AGAAGGCTGGAGCTCTGGGCGTGTGTGTGTGCAAGACAGGCAGGCAATGAGGAGGG
90316 I S GCACAAGAGGACAGATATACATTTATGGCTGAGGTTTGCAAAGAAACA
90316 P G S ATGACGTGGCAGACCCCATATTCCCAGGAACTY
90316 P A S CGCGCCGAGGTCCATATTCCCAGGAACTY
90316 T G S TCAGAGTTCCTGGGAATATGGGGTTTCTTTCCAAACCTCAGCCATAAATGTATATCTGTCCTCTTGTCCTG
90316 T A S TCAGAGTTCCTGGGAATATGGAGTTTCTTTCCAAACCTCAGCCATAAATGTATATCTGTCCTCTTGTCCTG
90316 IS [GA] TTACTGTGTTGTGAATTGGTTTAAGATATACACTGTGATTCAGAGTTCCTGGGAAATATGG[GA]GTTTCTTTCCAAACCTCAGCCATAAATGTATATCTGTCCTCTTGTCCTGTTTGAGCTGA
90332 I S CTGCAGCAGCAGAGTGTGCGGGCA
90332 P G S ATGACGTGGCAGACCGGGAGCCTGCAGY
90332 P A S CGCGCCGAGGTGGGAGCCTGCAGY
90332 T G S AGGCCTGCAGGCTCCCGGCCCGCACACTCTCCTGCTGCAGCA
90332 T A S AGGCCTGCAGGCTCCCAGCCCGCACACTCTCCTGCTGCAGCA
90332 IS [GA] GTCTCCGCAGTTGTAGTGCTTGATGAGGTCCTCCGTGGTGTAGGAGGCCTGCAGGCTCCC[GA]GCCCGCACACTCTCCTGCTGCAGCAGGGTTTGGTTCAGGGCAAACAGCACCTGGGCCGAG
90339 I S CCGCTGGTGAATTCCTCTTAAAGAGTACTACCTGTGATAACTTTTTTC
90339 P T S CGCGCCGAGGAAAAAAAAAAACTGTTTATAACTTAGCAY
90339 P A S ATGACGTGGCAGACTAAAAAAAAAACTGTTTATAACTTAGCAY
90339 T T S TTATTGCTAAGTTATAAACAGTTTTTTTTTTAAAAAAAGTTATCACAGGTAGTACTCTTTAAGAGGAATTCACCAGCGGGA
90339 T A S TTATTGCTAAGTTATAAACAGTTTTTTTTTTAAAAAAAGTTATCACAGGTAGTACTCTTTAAGAGGAATTCACCAGCGGGA
90339 IS [TA] TAAGAATTTTCAAGGAATAAAATATTGAAT]ATTGCTAAGTTATAAACAGTTTTTTTTTT]TA]AAAAAAAGTTATCACAGGTAGTACTCTTTAAGAGGAATTCACCAGCGGGATGCAGTTGTA
90344 I S CAGAGGCTTTCCCGCGCCACCAGCT
90344 P T S CGCGCCGAGGAGTGACTGTCTCCAGGY
90344 P G S ATGACGTGGCAGACCGTGACTGTCTCCAGGY
90344 T T S CCATCCTGGAGACAGTCACTGCTGTGGCTGCGGGAAAGCCTCTCTC
90344 T G S CCATCCTGGAGACAGTCACGGCTGTGGCTGCGGGAAAGCCTCTCTC
90344 IS [TG] CGTGCTGCAGCGAACTCCAGGCAGCAACGCTGAGGAGTCTCCATCCTGGAGACAGTCAC[TG]GCTGTGGCTGCGGGAAAGCCTCTCTCTTGCCCAAACCACGATGGGAATGTAAGTGGCTGG
90366 I S GGGTTGCTATCAATGTTGCCAAACAAGTATTTTCCAGCCT
90366 P T S CGCGCCGAGGAATCACGTCATATTCCATACTGY
90366 P G S ATGACGTGGCAGACCATCACGTCATATTCCATACTY
90366 T T S GAGACAGTATGGAATATCACGTGATTGGCTGGAAAATACTTGTTTGGCAACATTGATAAGCAACCCTT

FIGURE 129C

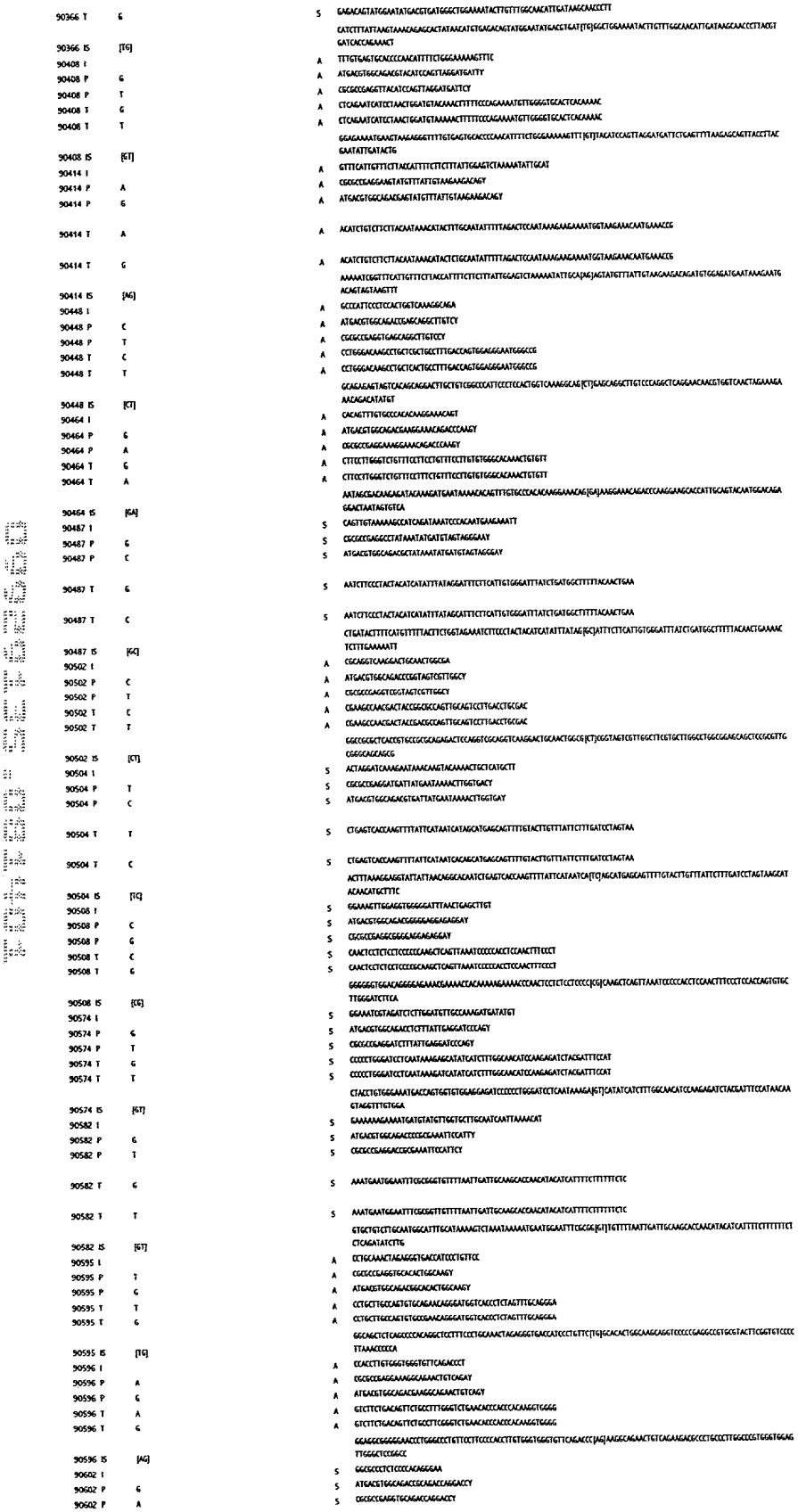


FIGURE 129C

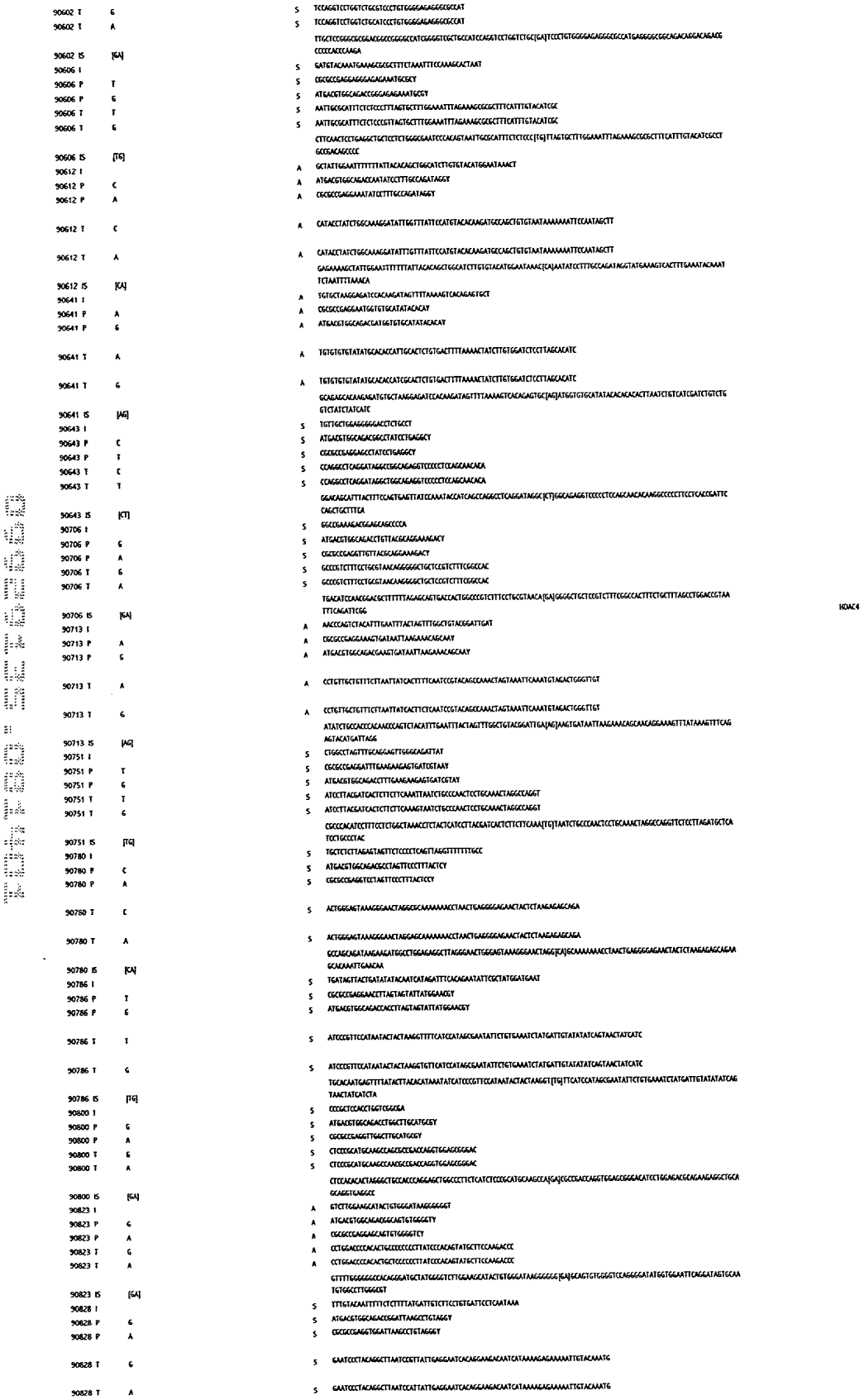
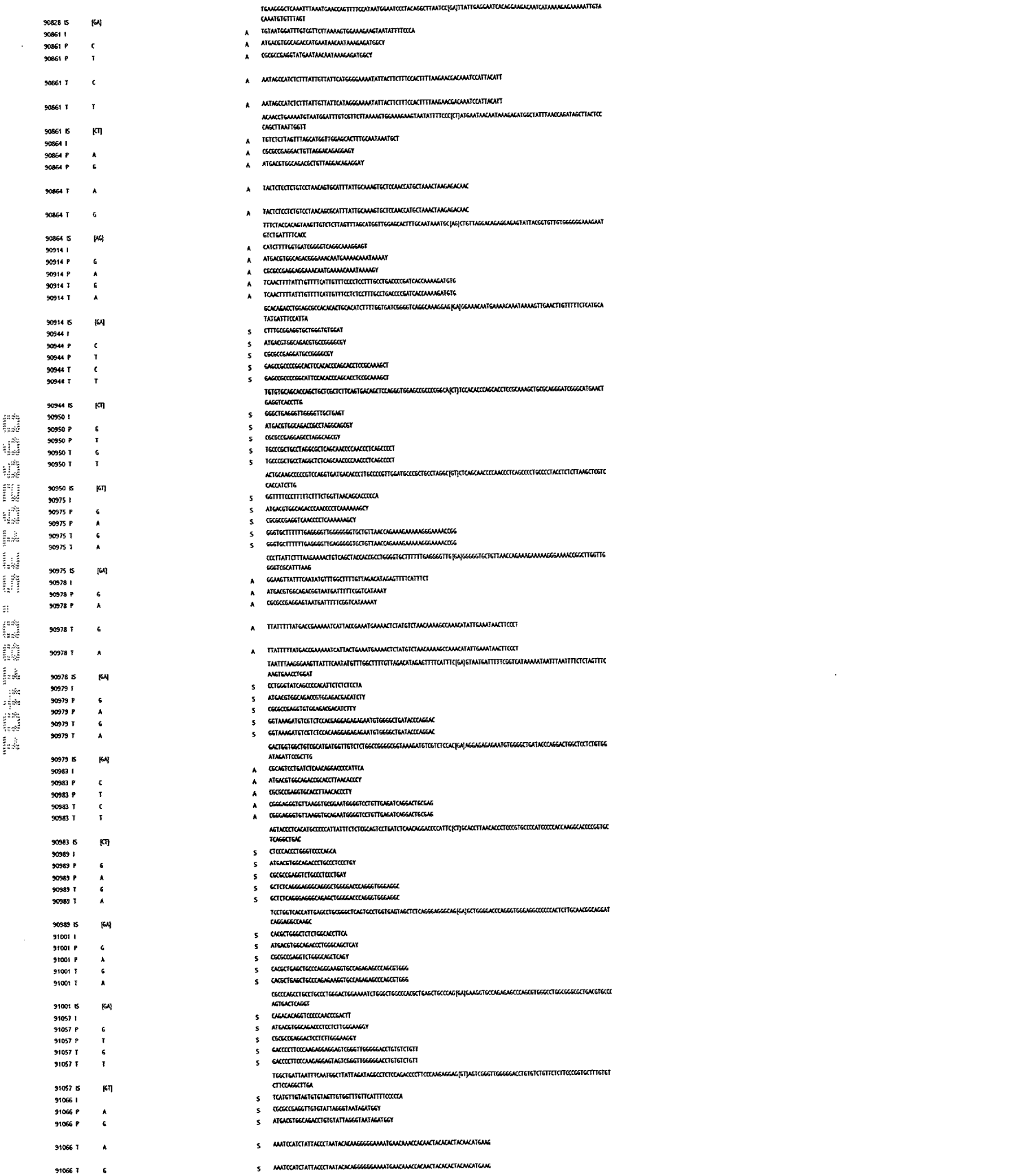
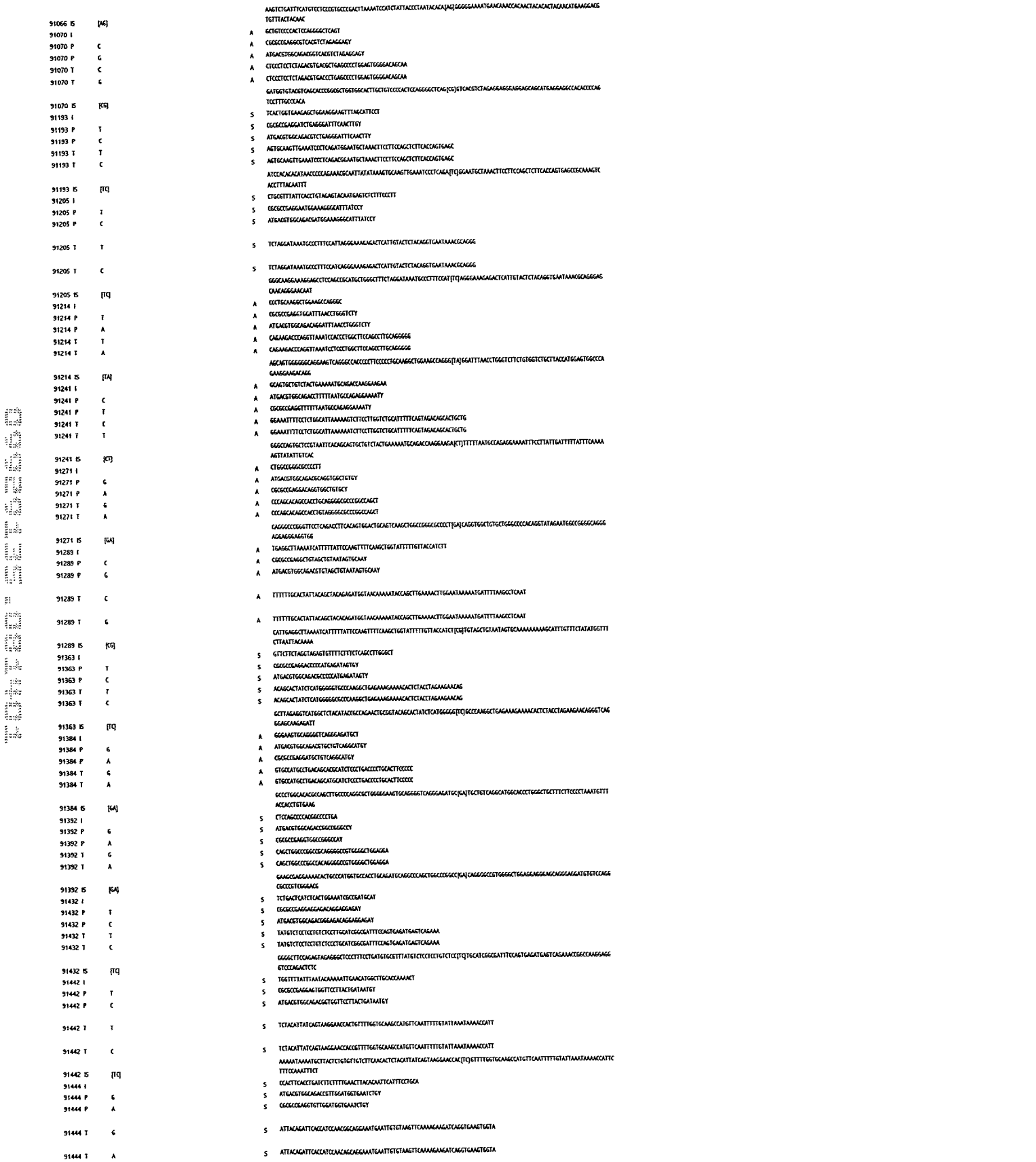
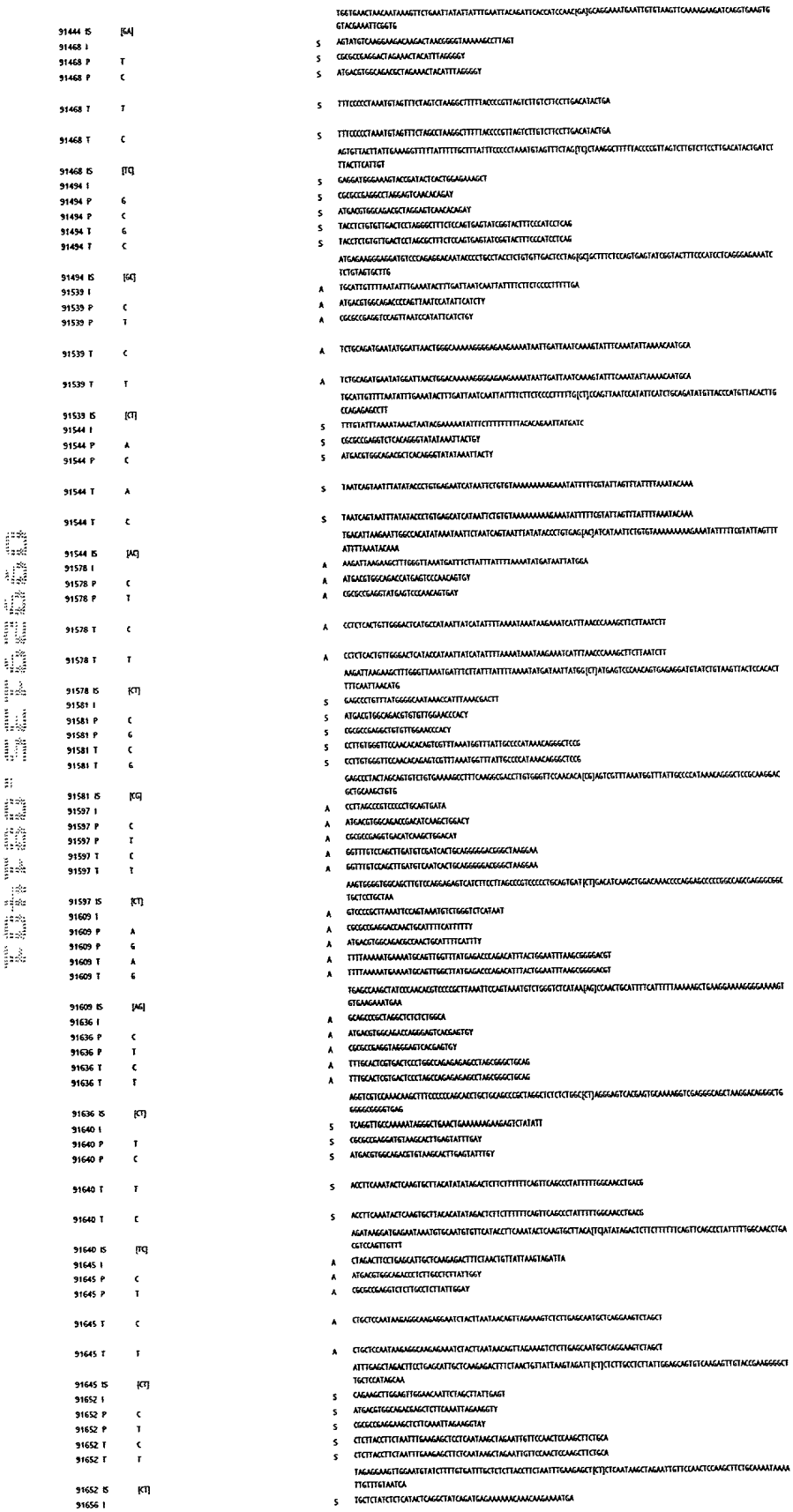

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90606 I
90606 P T
90606 P G
90606 T T
90606 T G
90606 IS [TG]
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90612 P C
90612 P A
90612 T C
90612 T A
90612 IS [CA]
90641 I
90641 P A
90641 P G
90641 T A
90641 T G
90641 IS [AG]
90643 I
90643 P C
90643 P T
90643 T C
90643 T T
90643 IS [CT]
90706 I
90706 P G
90706 P A
90706 T G
90706 T A
90706 IS [GA]
90713 I
90713 P A
90713 P G
90713 T A
90713 T G
90713 IS [AG]
90751 I
90751 P T
90751 P G
90751 T T
90751 T G
90751 IS [TG]
90780 I
90780 P C
90780 P A
90780 T C
90780 T A
90780 IS [CA]
90786 I
90786 P T
90786 P G
90786 T T
90786 T G
90786 IS [TG]
90800 I
90800 P G
90800 P A
90800 T G
90800 T A
90800 IS [GA]
90823 I
90823 P G
90823 P A
90823 T G
90823 T A
90823 IS [GA]
90828 I
90828 P G
90828 P A
90828 T G
90828 T A
HDAC4

FIGURE 129C




AAGTCTGATTTCATGTCCTCCCGTGCCCGACTTAAAATCCATCTATTACCCTAATACACA[AG]GGGGGAAAATGAACAAACCACAACTACACACTACAACATGAAGGACG
91066 IS [AG] TGTTTACTACAAC
91070 I A GCTGTCCCCACTCCAGGGGCTCAGT
91070 P C A CGGCCCGAGGGGTCACGTCTCAGAGGAGY
91070 P G A ATGACGTGGCAGACGGTCACGTCTAGAGGAGY
91070 T C A CTCCCTCCTCTAGACGTGACGCTGAGCCCCTGGAGTGGGGACAGCAA
91070 T G A CTCCCTCCTCTAGACGTGACCCTGAGCCCCTGGAGTGGGGACAGCAA
GATGGTGTACGTCAGCACCCGGGGCTGGTGGGCACTTGCTGTCCCCACTCCAGGGGCTCAG[CG]GTCACGTCTAGAGGAGGGAGGAGCAGCATGAGGAGGCCACACCCCAG
91070 IS [CG] TCCTTTGCCCACA
91193 I S TCACTGGTGAAGAGCTGGAAGGAAGTTTAGCATTCCT
91193 P T S CGCGCCGAGGATCTGAGGGATTTCAACTTGY
91193 P C S ATGACGTGGCAGACGTCTGAGGGATTTCAACTTY
91193 T T S AGTGCAAGTTGAAATCCCTCAGATGGAATGCTAAACTTCCTTCCAGCTCTTCACCAGTGAGC
91193 T C S AGTGCAAGTTGAAATCCCTCAGACGGAATGCTAAACTTCCTTCCAGCTCTTCACCAGTGAGC
ATCCACACACATAACCCCCAGAAACGCAATTATATAAAGTGCAAGTTGAAATCCCTCAGA[TC]GGAATGCTAAACTTCCTTCCAGCTCTTCACCAGTGAGCCGCAAAGTC
91193 IS [TC] ACCTTTACAATTT
91205 I S CTGCGTTTATTCACCTGTAGAGTACAATGAGTCTCTTTCCCTT
91205 P T S CGCGCCGAGGAATGGAAAGGGCATTTATCCY
91205 P C S ATGACGTGGCAGACGATGGAAAGGGCATTTATCCY
91205 T T S TCTAGGATAAATGCCCTTTCCATTAGGGAAAGAGACTCATTGTACTCTACAGGTGAATAAACGCAGGG
91205 T C S TCTAGGATAAATGCCCTTTCCATCAGGGAAAGAGACTCATTGTACTCTACAGGTGAATAAACGCAGGG
GGGCAAGGAAAGAGCCTCCAGCCGCATGCTGGGCTTTCTAGGATAAATGCCCTTTCCAT[TC]AGGGAAAGAGACTCATTGTACTCTACAGGTGAATAAACGCAGGGAG
91205 IS [TC] CAACAGGGAACAAT
91214 I A CCCTGCAAGGCTGGAAGCCAGGGC
91214 P T A CGCGCCGAGGTGGATTTAACCTGGGTCTY
91214 P A A ATGACGTGGCAGACAGGATTTAACCTGGGTCTY
91214 T T A CAGAAGACCCAGGTTAAATCCACCCTGGCTTCCAGCCTTGCAGGGGG
91214 T A A CAGAAGACCCAGGTTAAATCCTCCCTGGCTTCCAGCCTTGCAGGGGG
AGCAGTGGGGGGCAGGAAGTCAGGGCCACCCCCTTCCCCCTGCAAGGCTGGAAGCCAGGG[TA]GGATTTAACCTGGGTCTTCTGTGGTCTGCTTACCATGGAGTGGCCCA
91214 IS [TA] GAAGGAAGACAGC
91241 I A GCAGTGCTGTCTACTGAAAAATGCAGACCAAGGAAGAA
91241 P C A ATGACGTGGCAGACCTTTTTAATGCCAGAGGAAAATY
91241 P T A CGCGCCGAGGTTTTTTAATGCCAGAGGAAAATY
91241 T C A GGAAATTTTCCTCTGGCATTAAAAAGTCTTCCTTGGTCTGCATTTTTCAGTAGACAGCACTGCTG
91241 T T A GGAAATTTTCCTCTGGCATTAAAAAATCTTCCTTGGTCTGCATTTTTCAGTAGACAGCACTGCTG
GGGCCAGTGCTCCGTAATTCACAGCAGTGCTGTCTACTGAAAAATGCAGACCAAGGAAGA[CT]TTTTTAATGCCAGAGGAAAATTCCTTATTGATTTTTATTTCAAAA
91241 IS [CT] AGTTATATTGTCAC
91271 I A CTGGCCGGGGCGCCCCTT
91271 P G A ATGACGTGGCAGACGCAGGTGGCTGTGY
91271 P A A CGCGCCGAGGACAGGTGGCTGTGCY
91271 T G A CCCAGCACAGGCCACCTGCAGGGGGCGCCCGGCCAGCT
91271 T A A CCCAGCACAGGCCACCTGTAGGGGCGCCCGGCCAGCT
CAGGGCCCGGGGTTCCTCAGACCTTCACAGTGGACTGCAGTCAAGCTGGCCGGGCGCCCCT[GA]CAGGTGGCTGTGCTGGGCCCCACAGGTATAGAATGGCCGGGGCAGGG
91271 IS [GA] AGGAGGGAGGTGG
91289 I A TGAGGCTTAAAATCATTTTTATTCCAAGTTTTCAAGCTGGTATTTTTGTTACCATCTT
91289 P C A CGCGCCCAAGGCTGTAGCTGTAATAGTGCAAY
91289 P G A ATGACGTGGCAGACGTGTAGCTGTAATAGTGCAAY
91289 T C A TTTTTTGCACTATTACAGCTACAGACGATGGTAACAAAAATACCAGCTTGAAAACTTGGAATAAAAATGATTTTAAGCCTCAAT
91289 T G A TTTTTTGCACTATTACAGCTACACAGATGGTAACAAAAATACCAGCTTGAAAACTTGGAATAAAAATGATTTTAAGCCTCAAT
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91289 IS [CG] CTTAATTACAAAA
91363 I S GTTCTTCTAGGTAGAGTGTTTTCTTTCTCAGCCTTGGGCT
91363 P T S CGGGCCCAAGGACCCCCATGAGATAGTGY
91363 P C S ATGACGTGGCAGACGCCCCCATGAGATAGTY
91363 T T S ACAGCACTATCTCATGGGGGGTGCCCAAGGCTGAGAAAGAAAACACTCTACCTAGAAGAACAG
91363 T C S ACAGCACTATCTCATGGGGGGTGCCCAAGGCTGAGAAAGAAAACACTCTACCTAGAAGAACAG
GCTTAGAGGTCATGGCTCTACATACCGCCAGAACTGCGGTACAGCACTATCTCATGGGGG[TC]GCCCAAGGCTGAGAAAGAAAACACTCTACCTAGAAGAACAGGGTCAG
91363 IS [TC] GGAGCAAGAGATT
91384 I A GGGAAGTGCAGGGGTCAGGGAGATGCT
91384 P G A ATGACGTGGCAGACCTGCTGTCAGGCATGY
91384 P A A CGCGCCGAGGATGCTGTCAGGCATGY
91384 T G A GTGCCATGCCTGACAGCACGCATCTCCCTGACCCCTGCACTTCCCCC
91384 T A A GTGCCATGCCTGACAGCATGCATCTCCCTGACCCCTGCACTTCCCCC
GCCCTGGCACACGCCAGCTTGCCCCAGGCGCTGGGGGAAGTGCAGGGGTCAGGGAGATGC[GA]TGCTGTCAGGCATGGCACCCTGGGCTGCTTTCTTCCCCTAAATGTTT
91384 IS [GA] ACCACCTGTGAAG
91392 I S CTCCAGCCCCAGGGCCCTGA
91392 P G S ATGACGTGGCAGACGCGGCCGGGCCY
91392 P A S CGGGCCGAGGTGGCCGGGCCAY
91392 T G S CAGCTGGCCCGGCCGCAGGGGCGTGGGGCTGGAGGA
91392 T A S CAGCTGGCCCGGCCACAGGGGCGTGGGGCTGGAGGA
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91392 IS [GA] CGCCCGTCGGGACG
91432 I S TCTGACTCATCTCACTGGAAATCGCCGATGCAT
91432 P T S CGCGCCGAGGAGGAGACAGGAGGAGAY
91432 P C S ATGACGTGGCAGACGGGAGACAGGAGGAGAY
91432 T T S TATGTCTCCTCCTGTCTCCTTGCATCGGCGATTTCCAGTGAGATGAGTCAGAAA
91432 T C S TATGTCTCCTCCTGTCTCCCTGCATCGGCGATTTCCAGTGAGATGAGTCAGAAA
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91442 I S TGGTTTTATTTAATACAAAAATTGAACATGGCTTGCACCAAAACT
91442 P T S CGCGCCGAGGAGTGGTTCCTTACTGATAATGY
91442 P C S ATGACGTGGCAGACGGTGGTTCCTTACTGATAATGY
91442 T T S TCTACATTATCAGTAAGGAACCACTGTTTTGGTGCAAGCCATGTTCAATTTTTGTATTAAATAAAACCATT
91442 T C S TCTACATTATCAGTAAGGAACCACCGTTTTGGTGCAAGCCATGTTCAATTTTTGTATTAAATAAAACCATT
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91442 IS [TC] TTTCCAAATTTCT
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91444 P G S ATGACGTGGCAGACCGTTGGATGGTGAATCTGY
91444 P A S CGCGCCGAGGTGTTGGATGGTGAATCTGY
91444 T G S ATTACAGATTCACCATCCAACGGCAGGAAATGAATTGTGTAAGTTCAAAAGAAGATCAGGTGAAGTGGTA
91444 T A S ATTACAGATTCACCATCCAACAGCAGGAAATGAATTGTGTAAGTTCAAAAGAAGATCAGGTGAAGTGGTA


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91494 P G
91494 P C
91494 T G
91494 T C
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91539 I
91539 P C
91539 P T
91539 T C
91539 T T
91533 IS [CT]
91544 I
91544 P A
91544 P C
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91544 T C
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91578 I
91578 P C
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91578 T T
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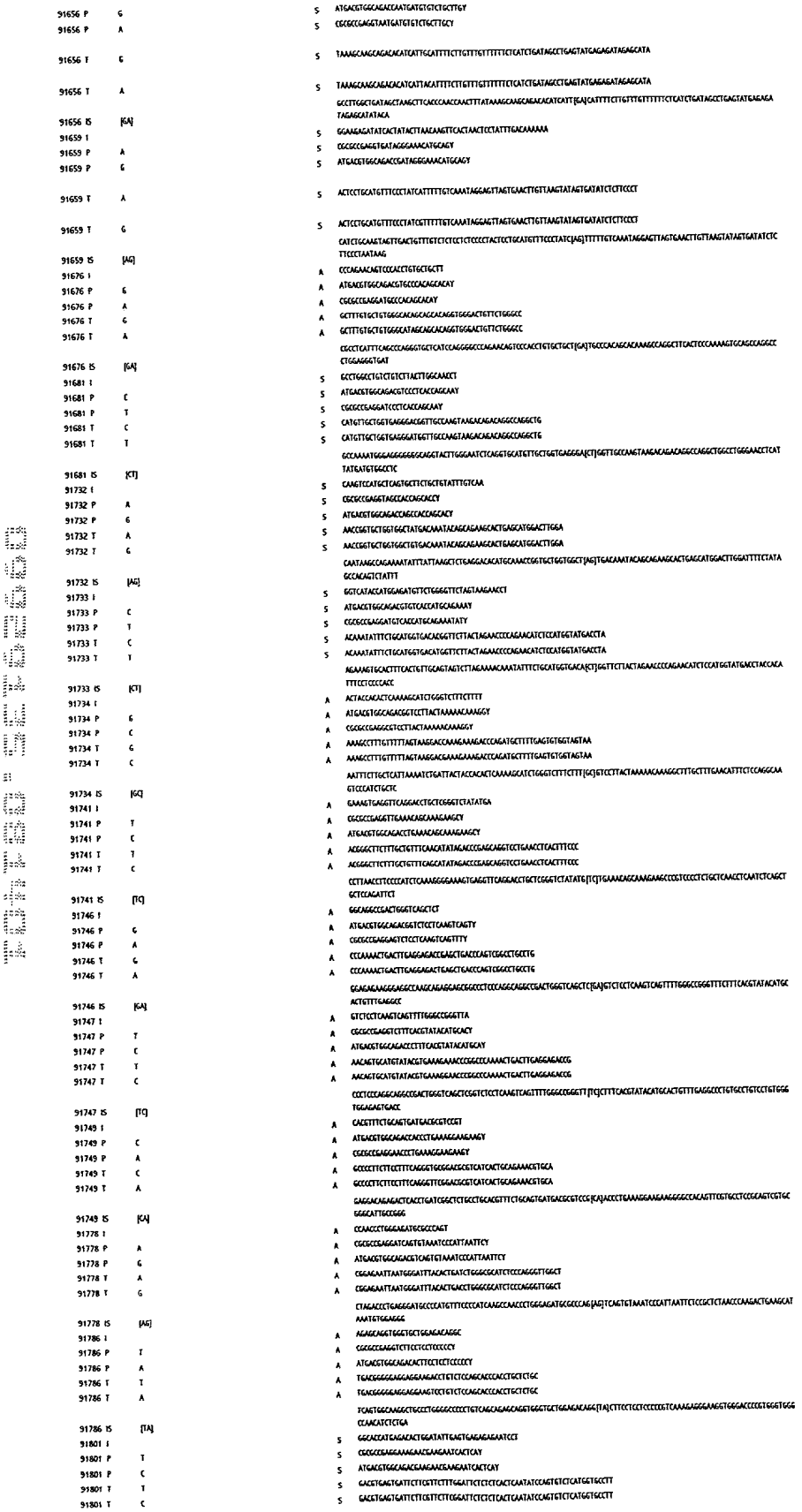

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CGCCTCATTTCAGCCCAGGGTGCTCATCCAGGGGCCCAGAACAGTCCCACCTGTGCTGCT[GA]TGCCCACAGCACAAAGCCAGGCTTCACTCCCAAAGTGCAGCCAGGCC
CTGGAGGGTGAT
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S CGCGCCCAGGATCCCTCACCAGCAAY
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S CGCGCCGAGGTAGCCACCAGCACCY
S ATGACGTGGCAGACCAGCCACCAGCACY
S AACCGGTGCTGGTGGCTATGACAAATACAGCAGAAGCACTGAGCATGGACTTGGA
S AACCGGTGCTGGTGGCTGTGACAAATACAGCAGAAGCACTGAGCATGGACTTGGA
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S ATGACGTGGCAGACGTGTCACCATGCAGAAAY
S CGCGCCGAGGATGTCACCATGCAGAAATATY
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A CCCAAAACTGACTTGAGGAGACTGAGCTGACCCAGTCGGCCTGCCTG
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A GTCTCCTCAAGTCAGTTTTGGGCCGGGTTA
A CGCGCCGAGGTCTTTCACGTATACATGCACY
A ATGACGTGGCAGACCCTTTCACGTATACATGCAY
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A AACAGTGCATGTATACGTGAAAGAAACCGGCCCAAAACTGACTTGAGGAGACCG
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A ATGACGTGGCAGACCACCCTGAAAGGAAGAAGY
A CGCGCCGAGGAACCCTGAAAGGAAGAAGY
A GCCCCTTCTTCCTTTCAGGGTGGGGACGCGTCATCACTGCAGAAACGTGCA
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A AGAGCAGGTGGGTGCTGGAGACAGGC
A CGCGCCGAGGTCTTCCTCCTCCCCCY
A ATGACGTGGCAGACACTTCCTCCTCCCCCY
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A TGACGGGGAAGGAGGAAGTCCTGTCTCCAGCACCCACCTGCTCTGC
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S CGCGCCGAGGAAAGAACGAAGAATCACTCAY
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FIGURE 129C

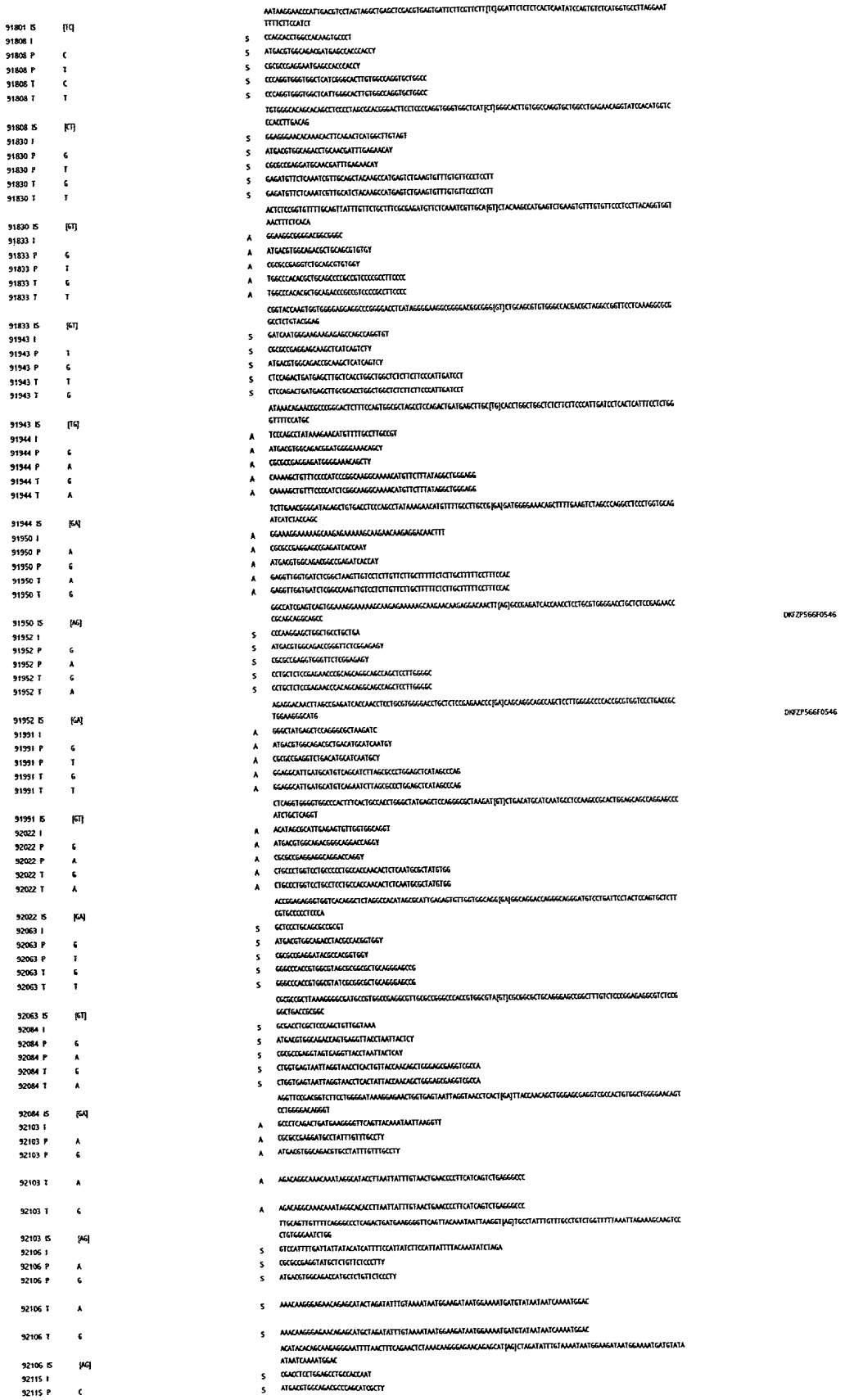
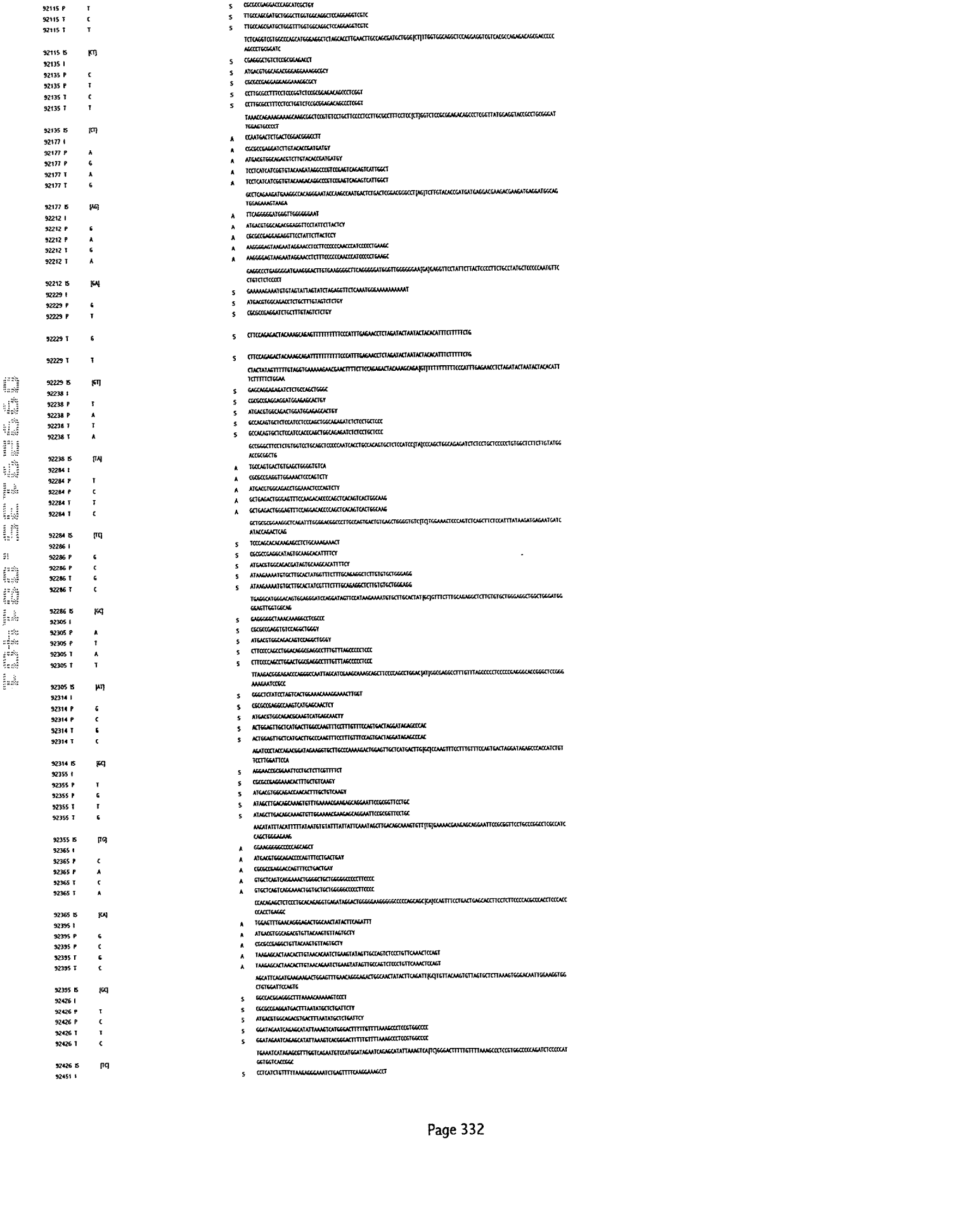


FIGURE 129C



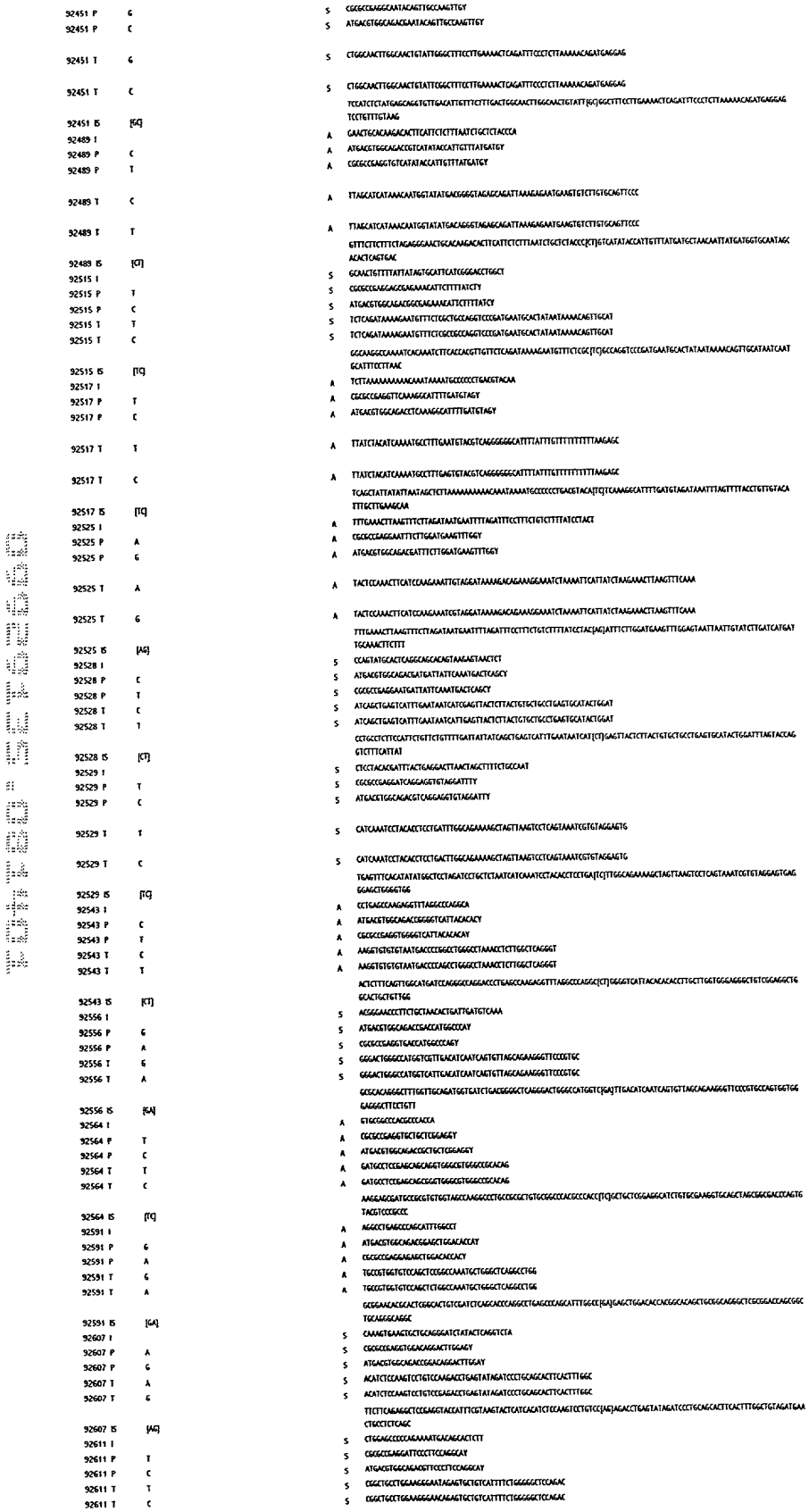

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92451 T G
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92451 T C
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92451 15 [GC]
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TCCTGTTTGTAAG
92489 I
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92489 P C
A ATGACGTGGCAGACCGTCATATACCATTGTTTATGATGY
92489 P T
A CGGGCCGAGGTGTCATATACCATTGTTTATGATGY
92489 T C
A TTAGCATCATAAACAATGGTATATGACGGGGTAGAGCAGATTAAAGAGAATGAAGTGTCTTGTGCAGTTCCC
92489 T T
A TTAGCATCATAAACAATGGTATATGACAGGGTAGAGCAGATTAAAGAGAATGAAGTGTCTTGTGCAGTTCCC
92488 15 [CT]
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ACACTCAGTGAC
92515 I
S GCAACTGTTTTATTATAGTGCATTCATCGGGAACCTGGCT
92515 P T
S CGGGCCGAGGAGCGAGAAAACATTCTTTTATCTY
92515 P C
S ATGACGTGGCAGACGGCGAGAAAACATTCTTTTATCY
92515 T T
S TCTCAGATAAAAGAATGTTTCTGCTGCCAGGTCCCGATGAATGCACTATAATAAAACAGTTGCAT
92515 T C
S TCTCAGATAAAAGAATGTTTCTGCTGCCAGGTCCCGATGAATGCACTATAATAAAACAGTTGCAT
GGCAAGGCCAAAATCACAAATCTTCACCACGTTGTTCTCAGATAAAAGAATGTTTCTCGC[TC]GCCAGGTCCCGATGAATGCACTATAATAAAACAGTTGCATAATCAAT
92515 15 [TC]
GCATTTCCTTAAC
92517 I
A TCTTAAAAAAAAAACAAATAAAATGCCCCCCTGACGTACAA
92517 P T
A CGGCCCGAGGTTCAAAGGCATTTTGATGTAGY
92517 P C
A ATGACGTGGCAGACCTCAAAGGCATTTTGATGTAGY
92517 T T
A TTATCTACATCAAAATGCCTTTGAATGTACGTCAGGGGGGCATTTTATTTGTTTTTTTTTAAGAGC
92517 T C
A TTATCTACATCAAAATGCCTTTGAGTGTACGTCAGGGGGGCATTTTATTTGTTTTTTTTTAAGAGC
92517 15 [TC]
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TTTGCTTGAAGCAA
92525 I
A TTTGAAACTTAAGTTTCTTAGATAATGAATTTTAGATTTCCTTTCTGTCTTTTATCCTACT
92525 P A
A CGCGCCGAGGAATTTCTTGGATGAAGTTTGGY
92525 P G
A ATGACGTGGCAGACGATTTCTTGGATGAAGTTTGGY
92525 T A
A TACTCCAAACTTCATCCAAGAAATTGTAGGATAAAAGACAGAAAGGAAATCTAAAATTCATTATCTAAGAAACTTAAGTTTCAAA
92525 T G
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92525 15 [AG]
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TGCAAACTTCTTT
92528 I
S CCAGTATGCACTCAGGCAGCACAGTAAGAGTAACTCT
92528 P C
S ATGACGTGGCAGACGATGATTATTCAAATGACTCAGCY
92528 P T
S CGCGCCGAGGAATGATTATTCAAATGACTCAGCY
92528 T C
S ATCAGCTGAGTCATTTGAATAATCATCGAGTTACTCTTACTGTGCTGCCTGAGTGCATACTGGAT
92528 T T
S ATCAGCTGAGTCATTTGAATAATCATTGAGTTACTCTTACTGTGCTGCCTGAGTGCATACTGGAT
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GTCTTTCATTAT
92528 15 [CT]
92529 I
S CTCCTACACGATTTACTGAGGACTTAACTAGCTTTTCTGCCAAT
92529 P T
S CGCGCCGAGGATCAGGAGGTGTAGGATTTY
92529 P C
S ATGACGTGGCAGACGTCAGGAGGTGTAGGATTY
92529 T T
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92529 T C
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GGAGCTGGGGTGG
92543 I
A CCTGAGCCAAGAGGTTTAGGCCCAGGCA
92543 P C
A ATGACGTGGCAGACCGGGGTCATTACACACY
92543 P T
A CGCGCCGAGGTGGGGTCATTACACACY
92543 T C
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92543 T T
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92556 I
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92556 P G
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92556 P A
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92556 T G
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92556 T A
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GAGGGCTTCCTGTT
92564 I
A GTGCGGCCCACGCCCACCA
92564 P T
A CGCGCCGAGGTGCTGCTCGGAGGY
92564 P C
A ATGACGTGGCAGACCGCTGCTCGGAGGY
92564 T T
A GATGCCTCCGAGCAGCAGGTGGGCGTGGGCCGCACAG
92564 T C
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TACGTCCCGCCC
92564 15 [TC]
92591 I
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92591 P G
A ATGACGTGGCAGACGGAGCTGGACACCAT
92591 P A
A CGCGCCGAGGAGAGCTGGACACCACY
92591 T G
A TGCCGTGGTGTCCAGCTCCGGCCAAATGCTGGGCTCAGGCCTGG
92591 T A
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TGCAGGGCAGGC
92591 15 [GA]
92607 I
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92607 P A
S CGCGCCGAGGTGACAGGACTTGGAGY
92607 P G
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92607 T A
S ACATCTCCAAGTCCTGTCCAAGACCTGAGTATAGATCCCTGCAGCACTTCACTTTGGC
92607 T G
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CTGCCTCTCAGC
92607 15 [AG]
92611 I
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92611 P T
S CGCGCCGAGGATTCCCTTCCAGGCAY
92611 P C
S ATGACGTGGCAGACGTTCCCTTCCAGGCAY
92611 T T
S CGGCTGCCTGGAAGGGAATAGAGTGCTGTCATTTTCTGGGGGCTCCAGAC
92611 T C
S CGGCTGCCTGGAAGGGAACAGAGTGCTGTCATTTTCTGGGGGCTCCAGAC

FIGURE 129C

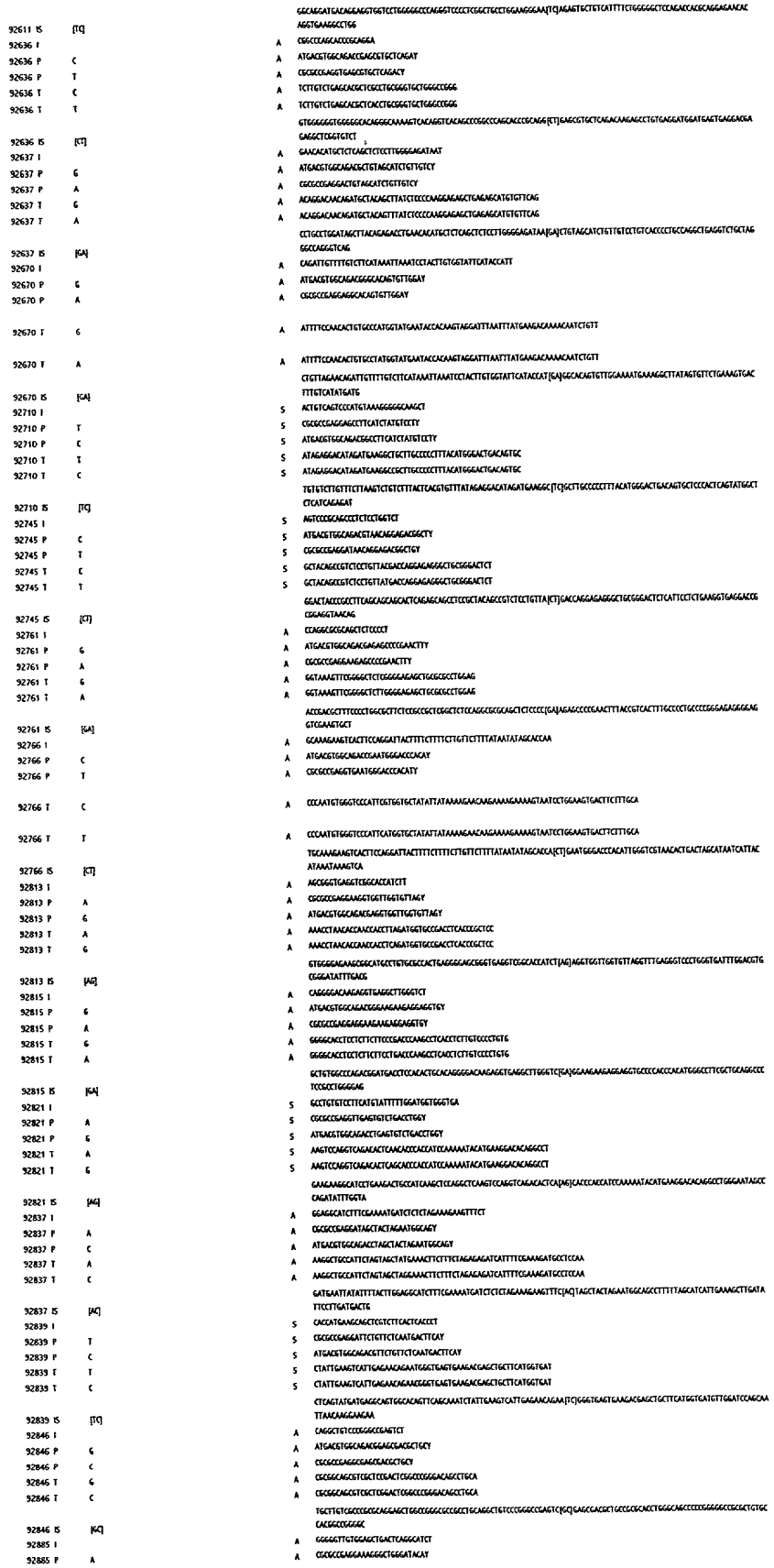
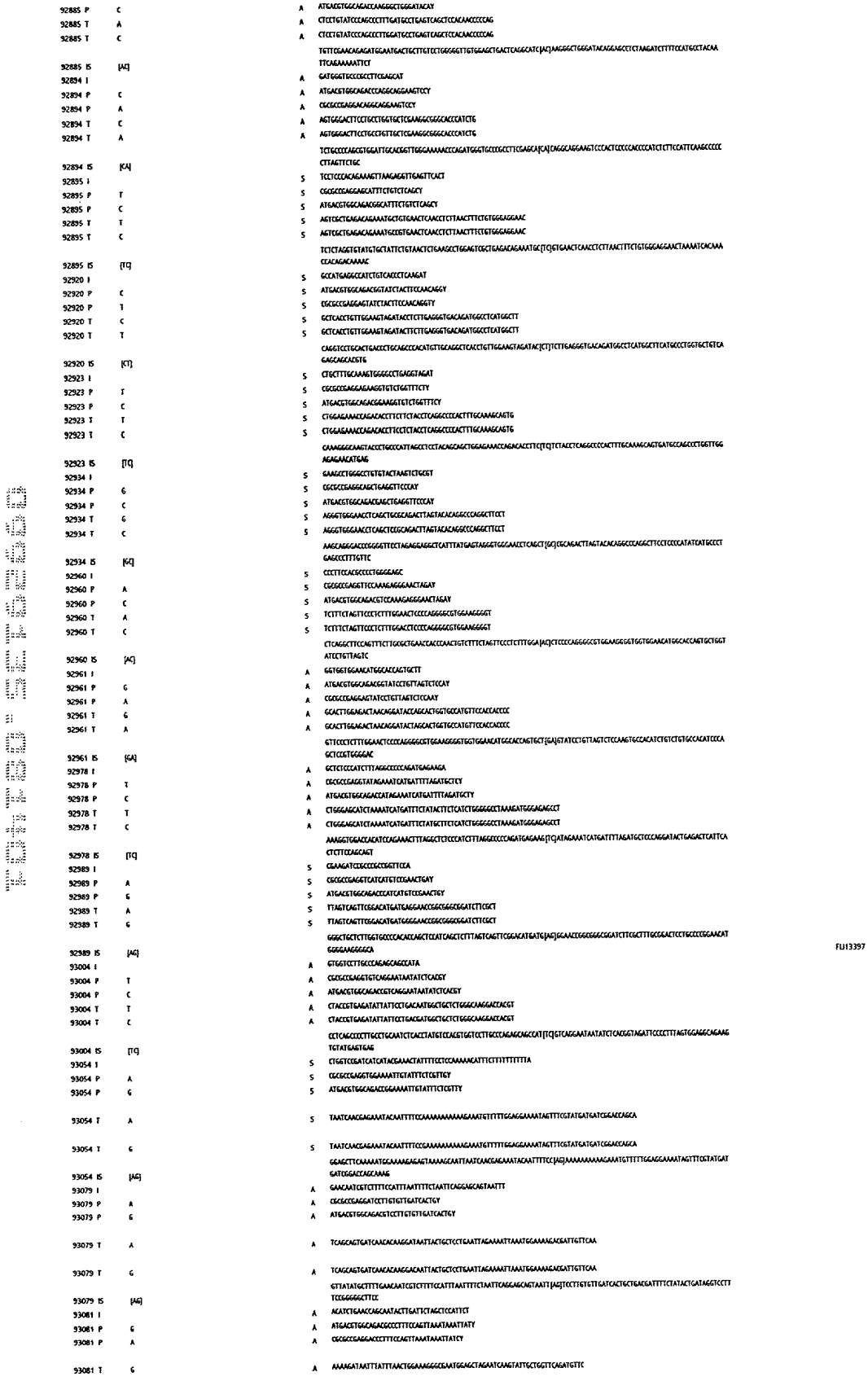
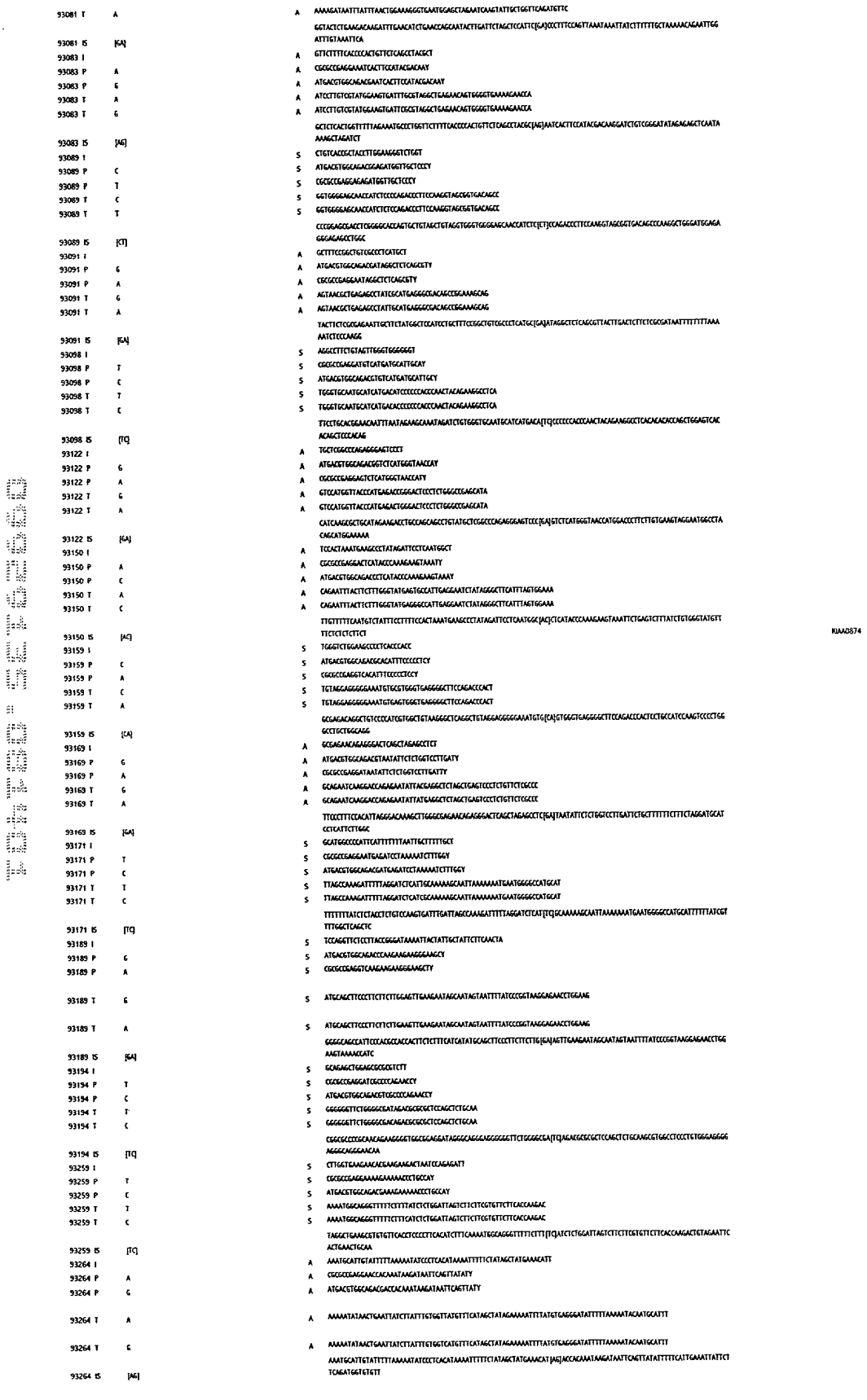


FIGURE 129C



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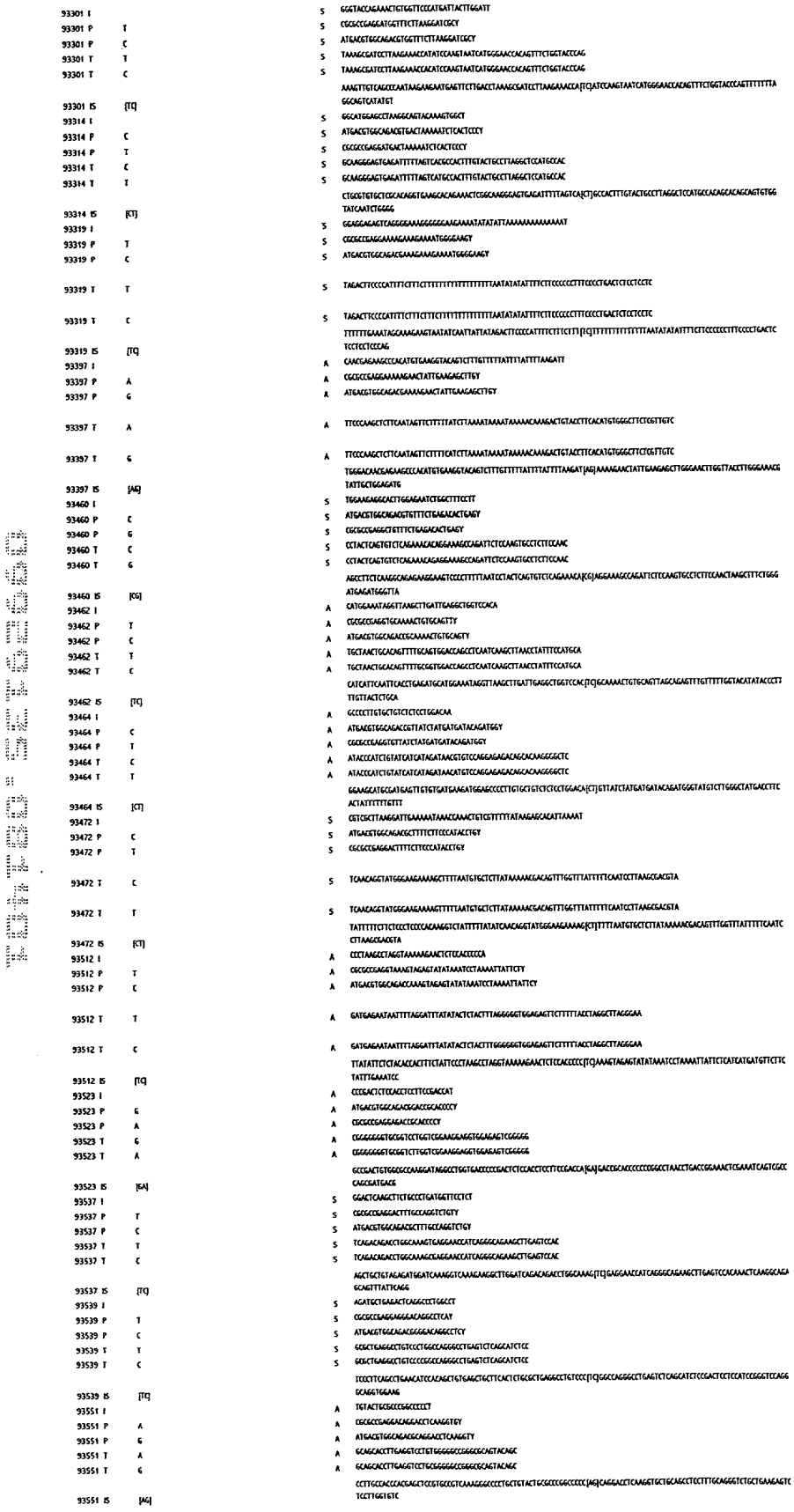


FIGURE 129C

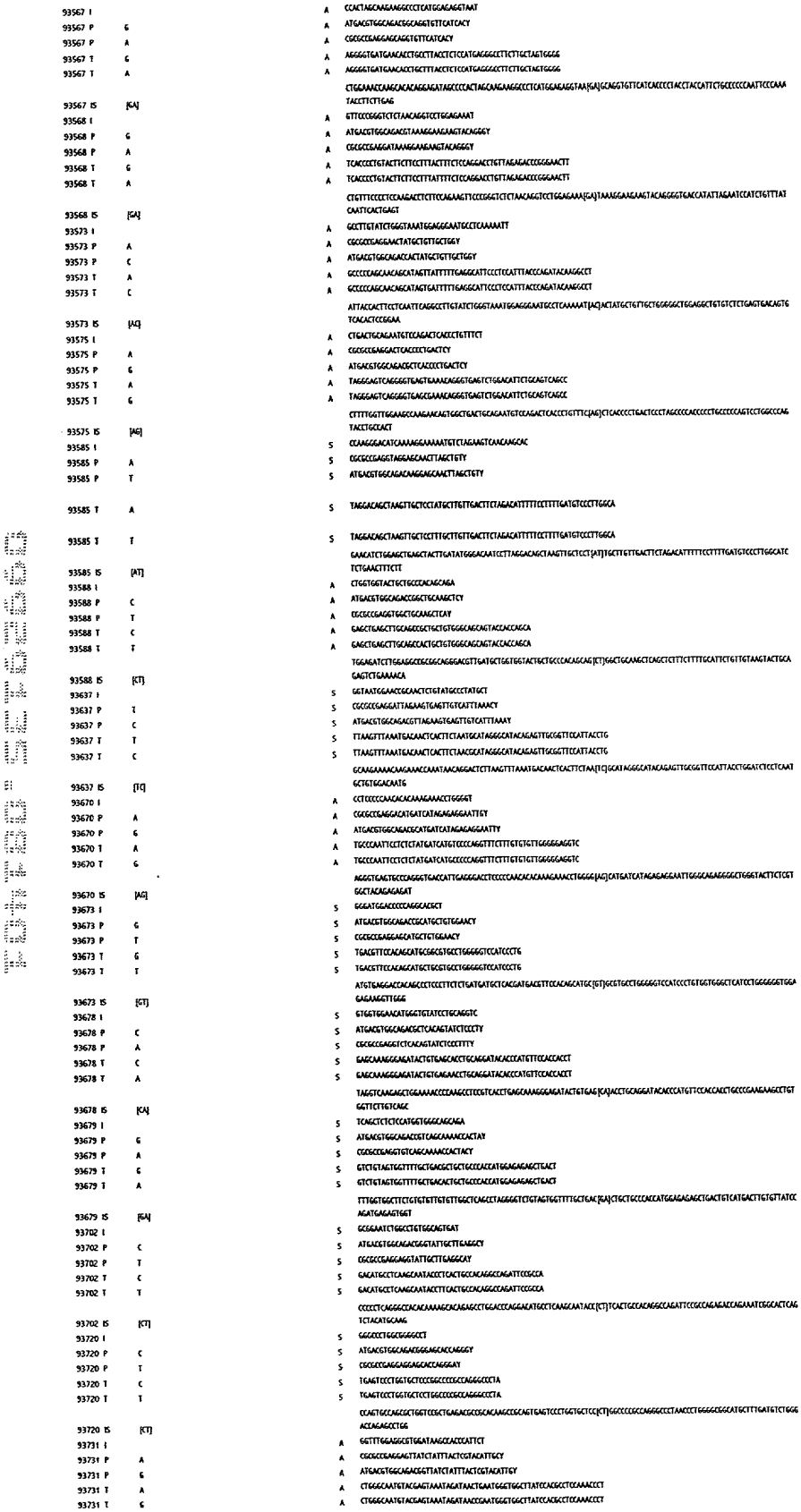
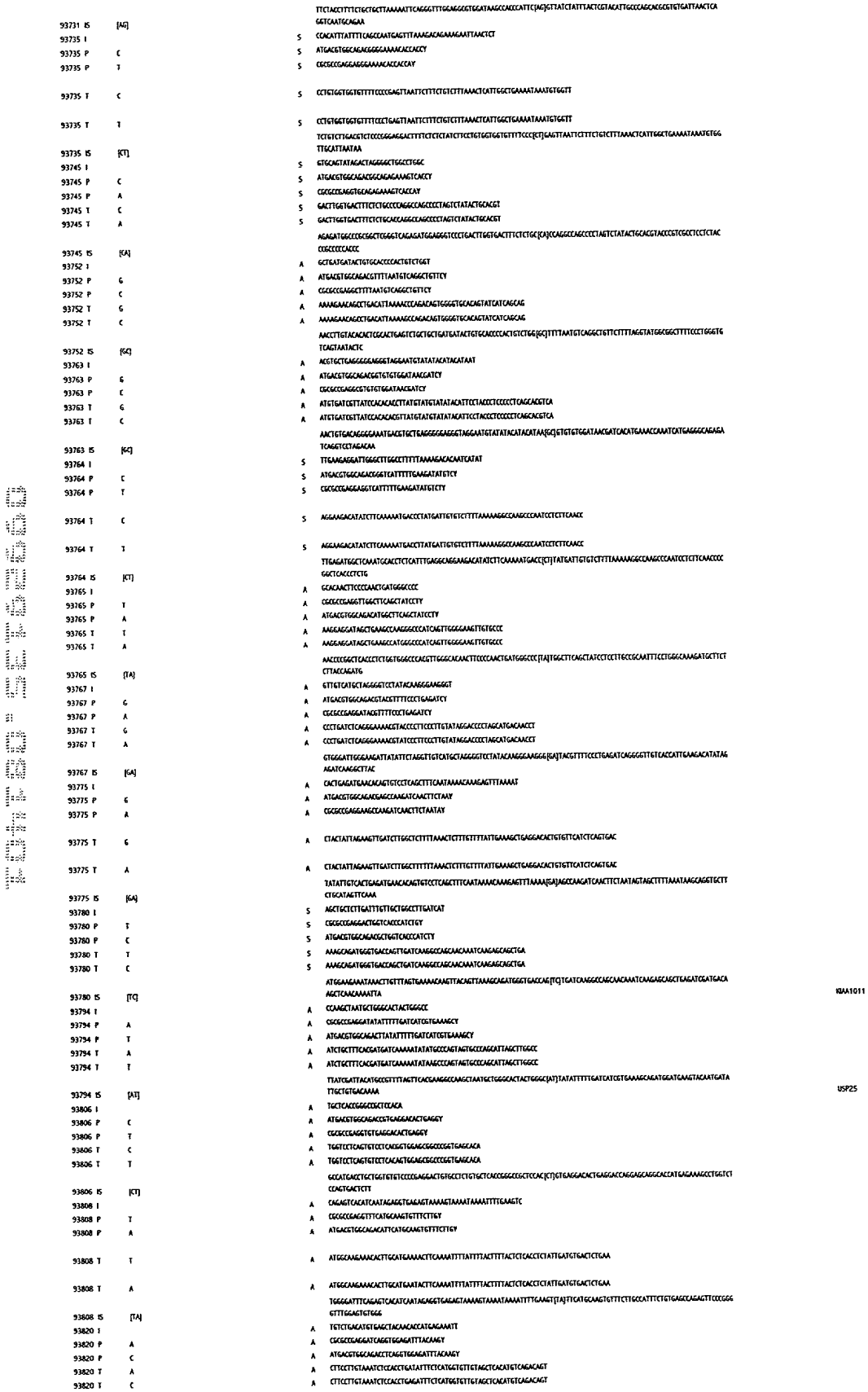


FIGURE 129C



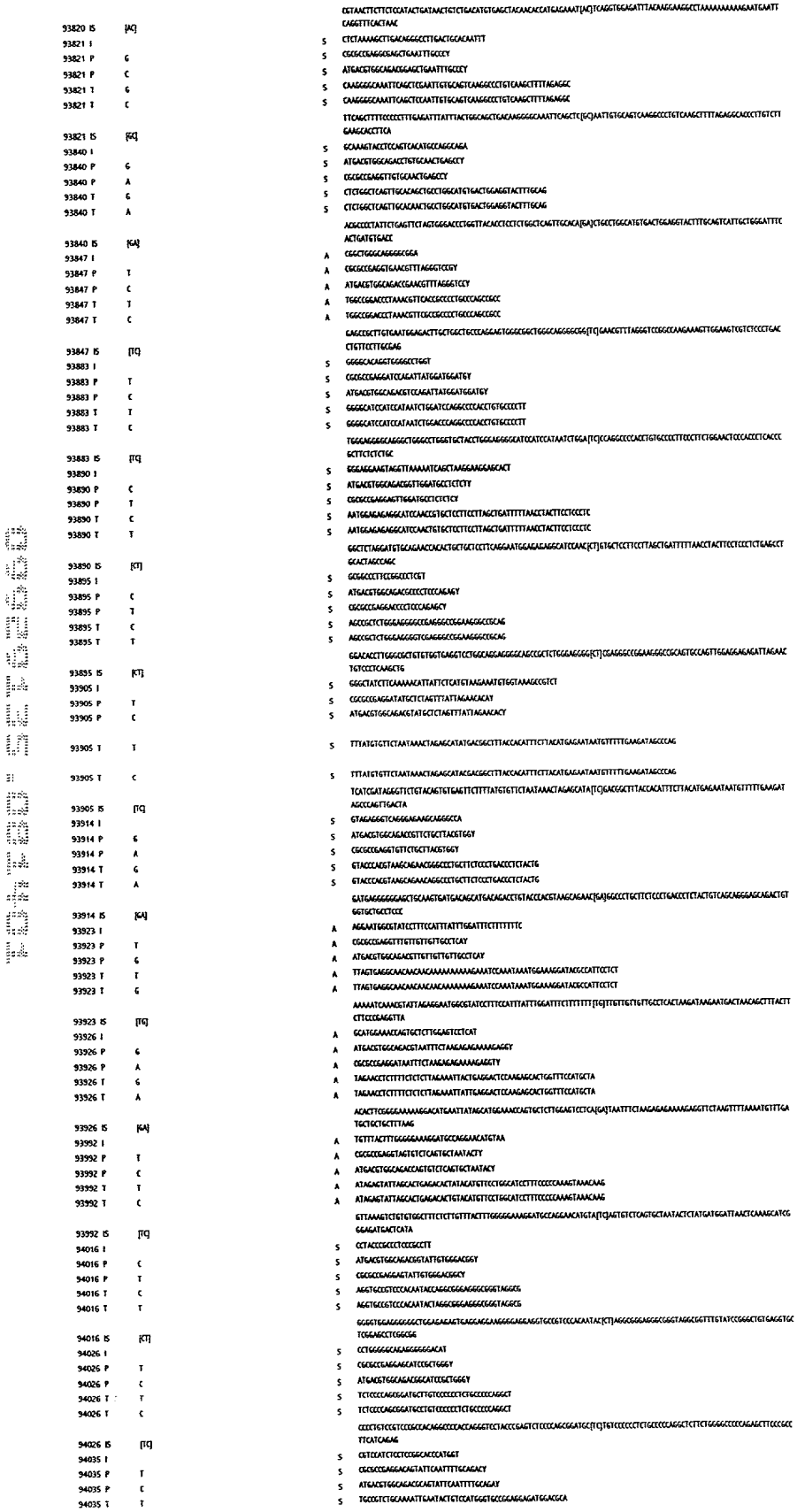


FIGURE 129C

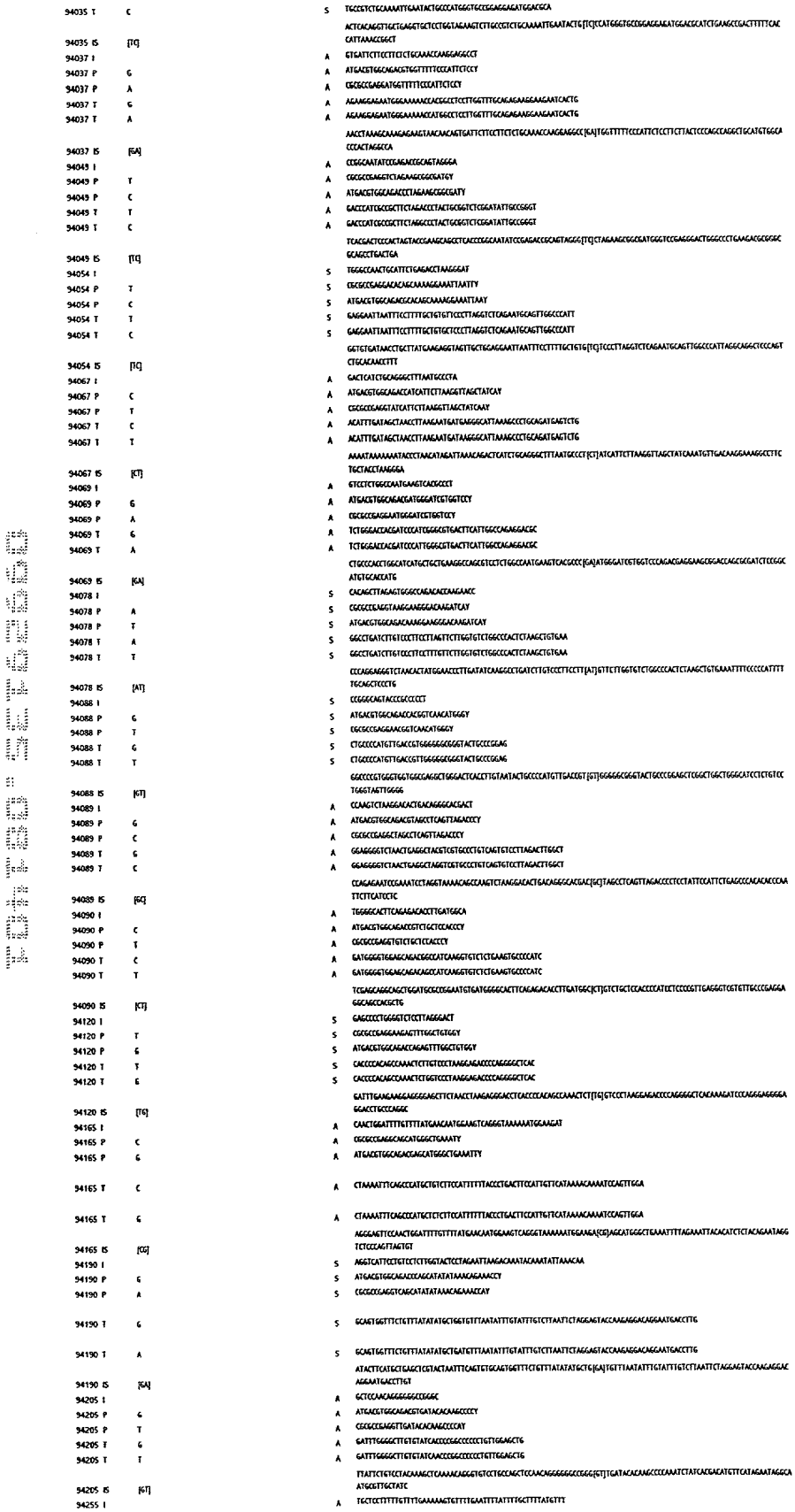


FIGURE 129C

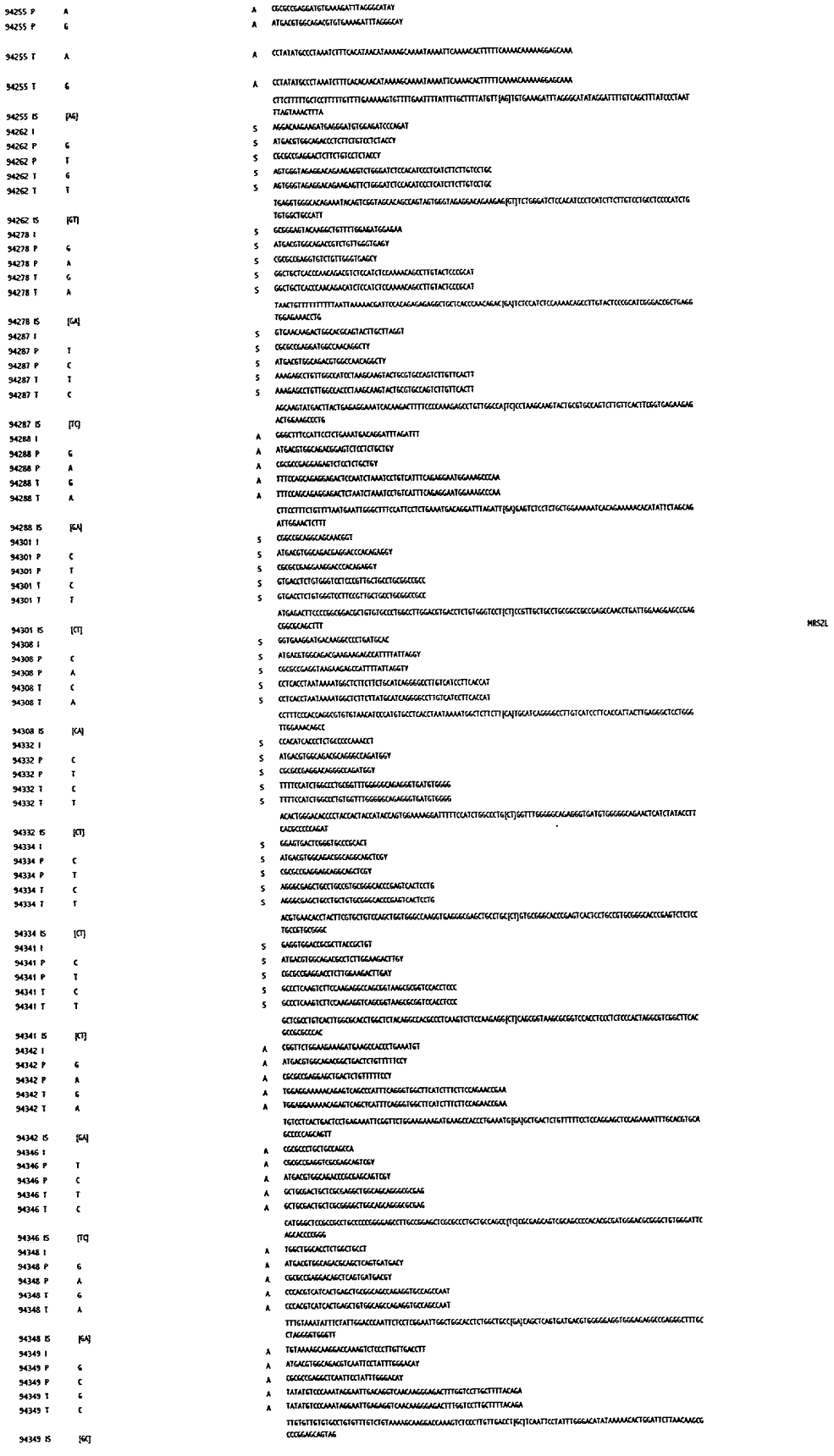


FIGURE 129C

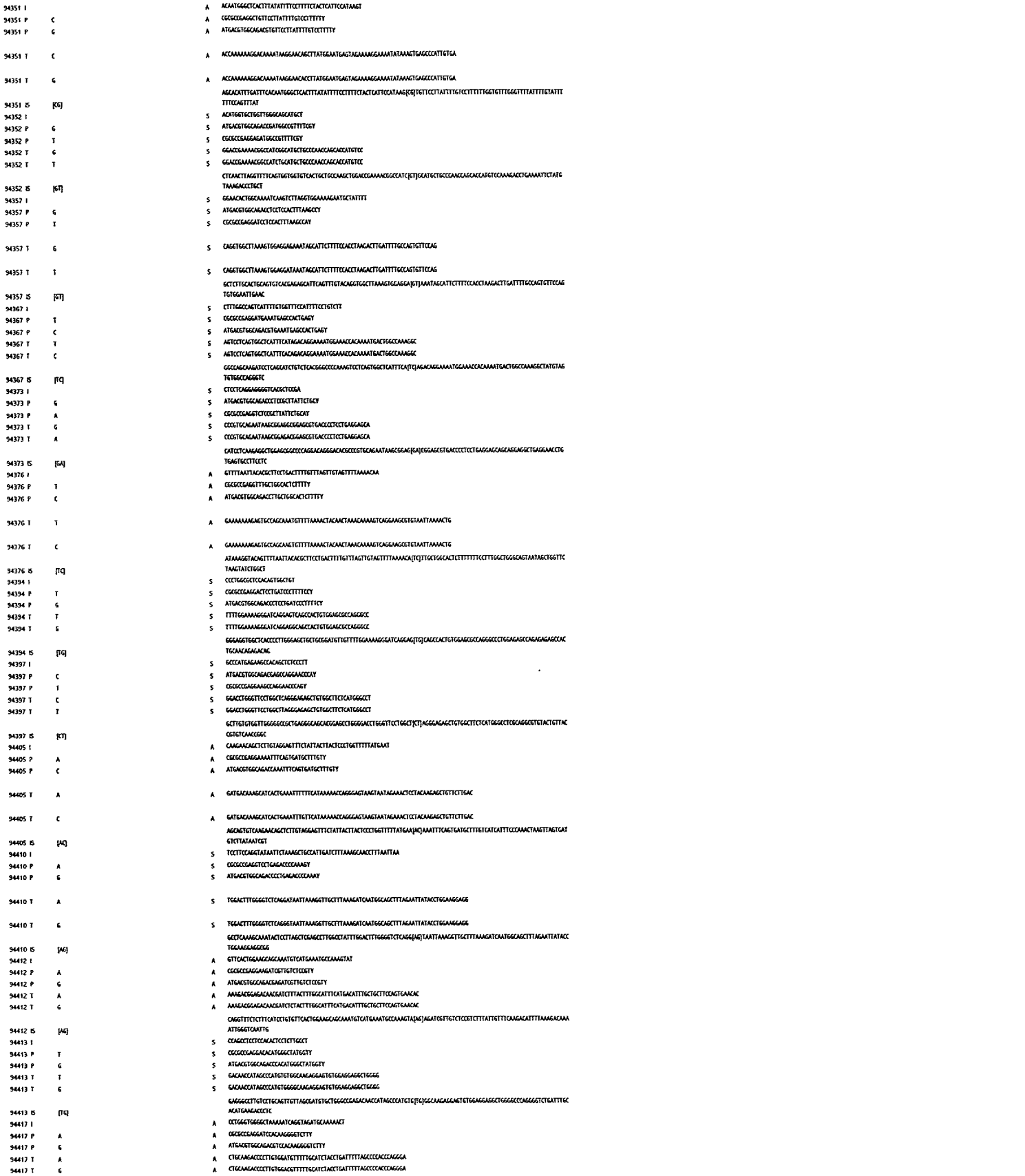


FIGURE 129C

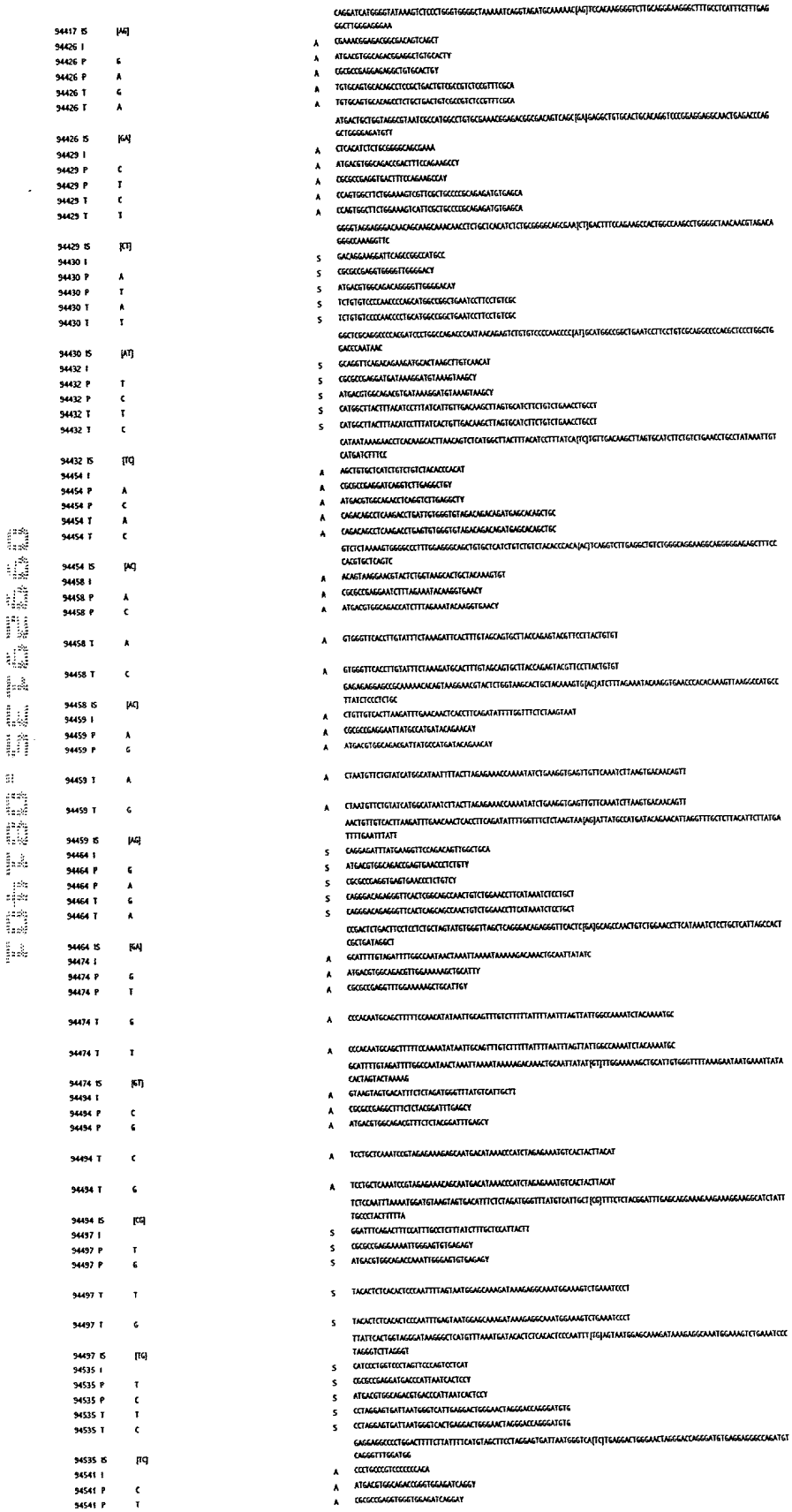
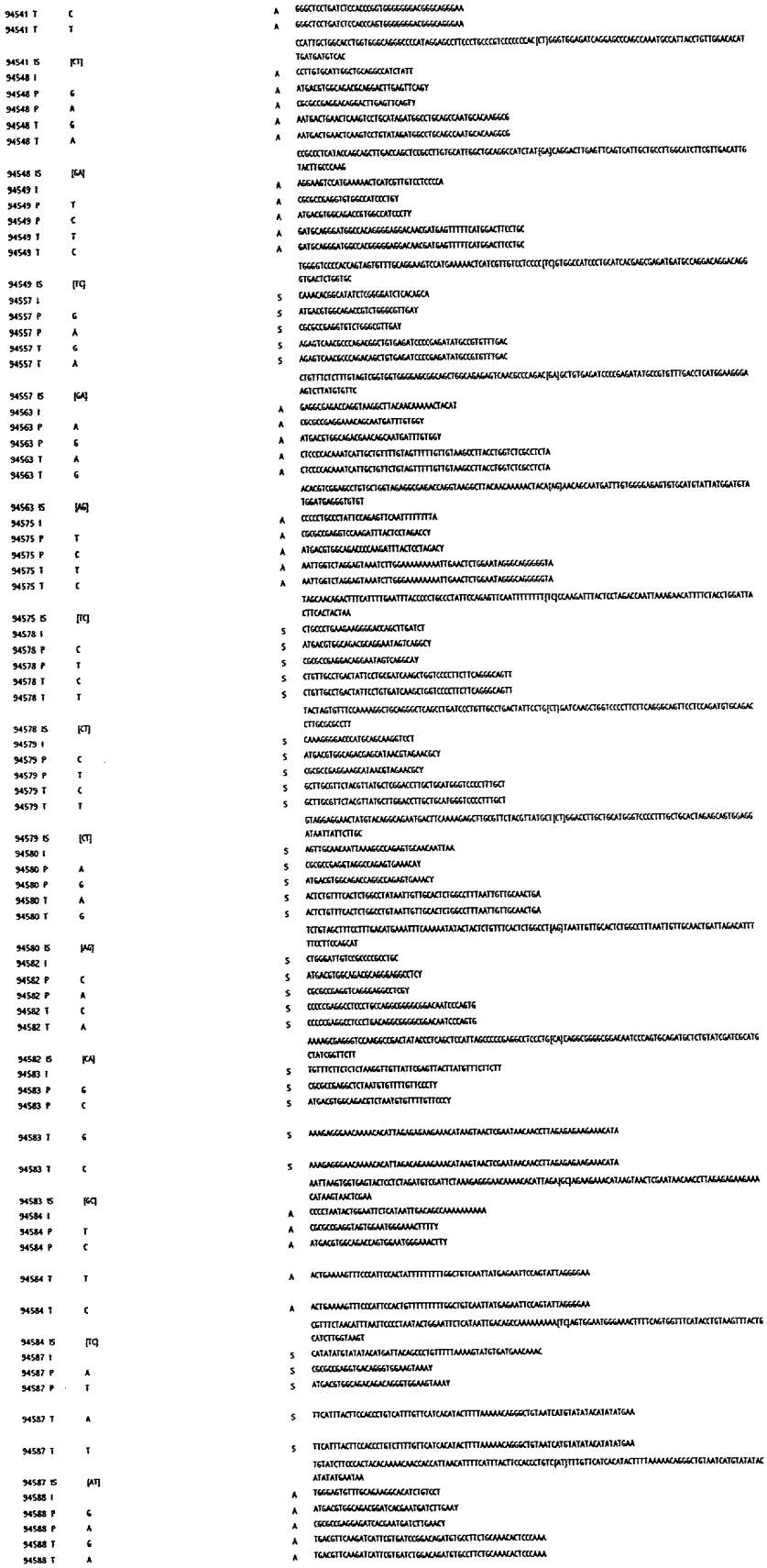


FIGURE 129C


94541 T C
94541 T T
94541 IS [CT]
94548 I
94548 P G
94548 P A
94548 T G
94548 T A
94548 IS [GA]
94549 I
94549 P T
94549 P C
94549 T T
94549 T C
94549 IS [TC]
94557 I
94557 P G
94557 P A
94557 T G
94557 T A
94557 IS [GA]
94563 I
94563 P A
94563 P G
94563 T A
94563 T G
94563 IS [AG]
94575 I
94575 P T
94575 P C
94575 T T
94575 T C
94575 IS [TC]
94578 I
94578 P C
94578 P T
94578 T C
94578 T T
94578 IS [CT]
94579 I
94579 P C
94579 P T
94579 T C
94579 T T
94579 IS [CT]
94580 I
94580 P A
94580 P G
94580 T A
94580 T G
94580 IS [AG]
94582 I
94582 P C
94582 P A
94582 T C
94582 T A
94582 IS [CA]
94583 I
94583 P G
94583 P C
94583 T G
94583 T C
94583 IS [GC]
94584 I
94584 P T
94584 P C
94584 T T
94584 T C
94584 IS [TC]
94587 I
94587 P A
94587 P T
94587 T A
94587 T T
94587 IS [AT]
94588 I
94588 P G
94588 P A
94588 T G
94588 T A
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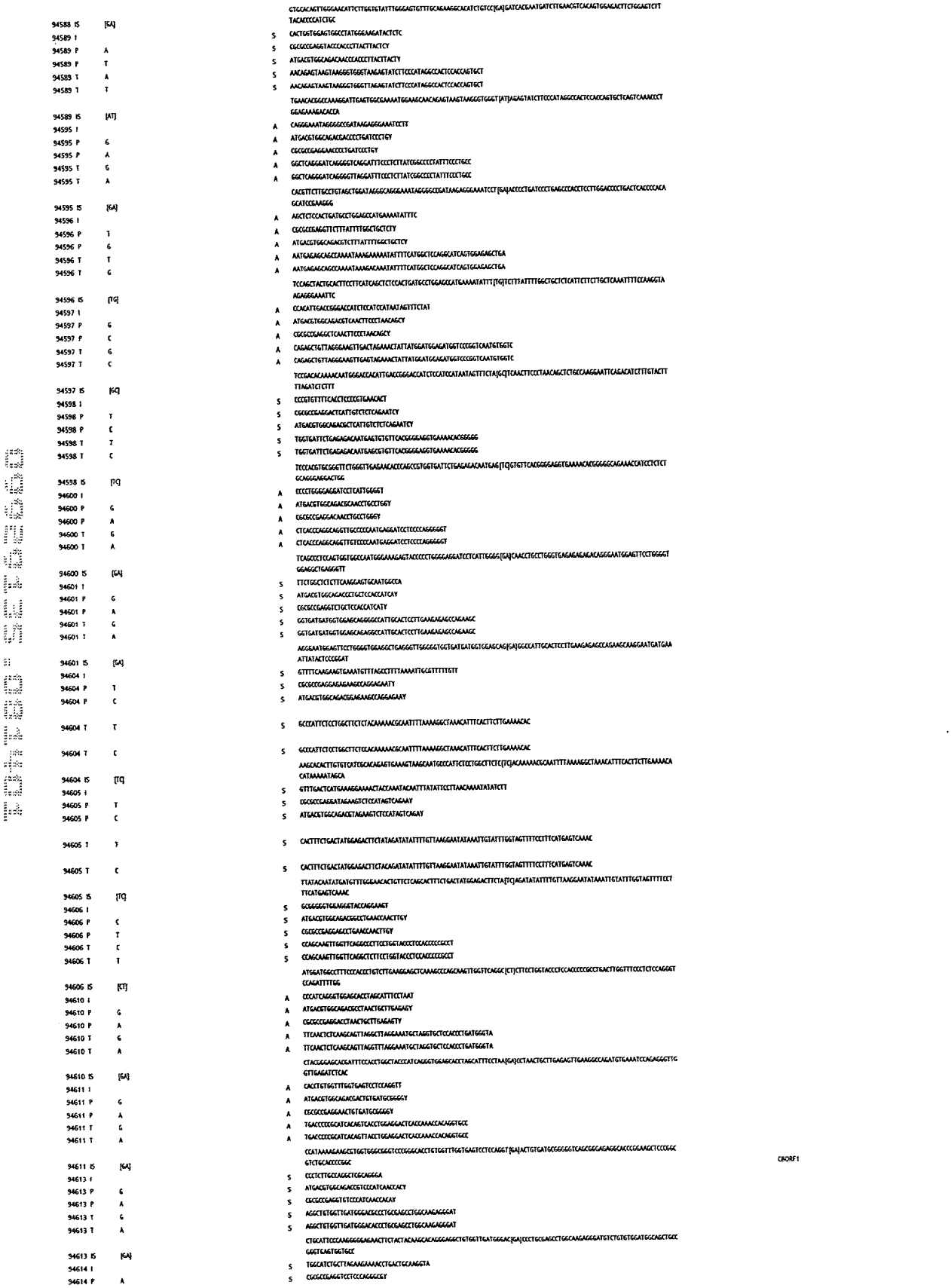

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FIGURE 129C

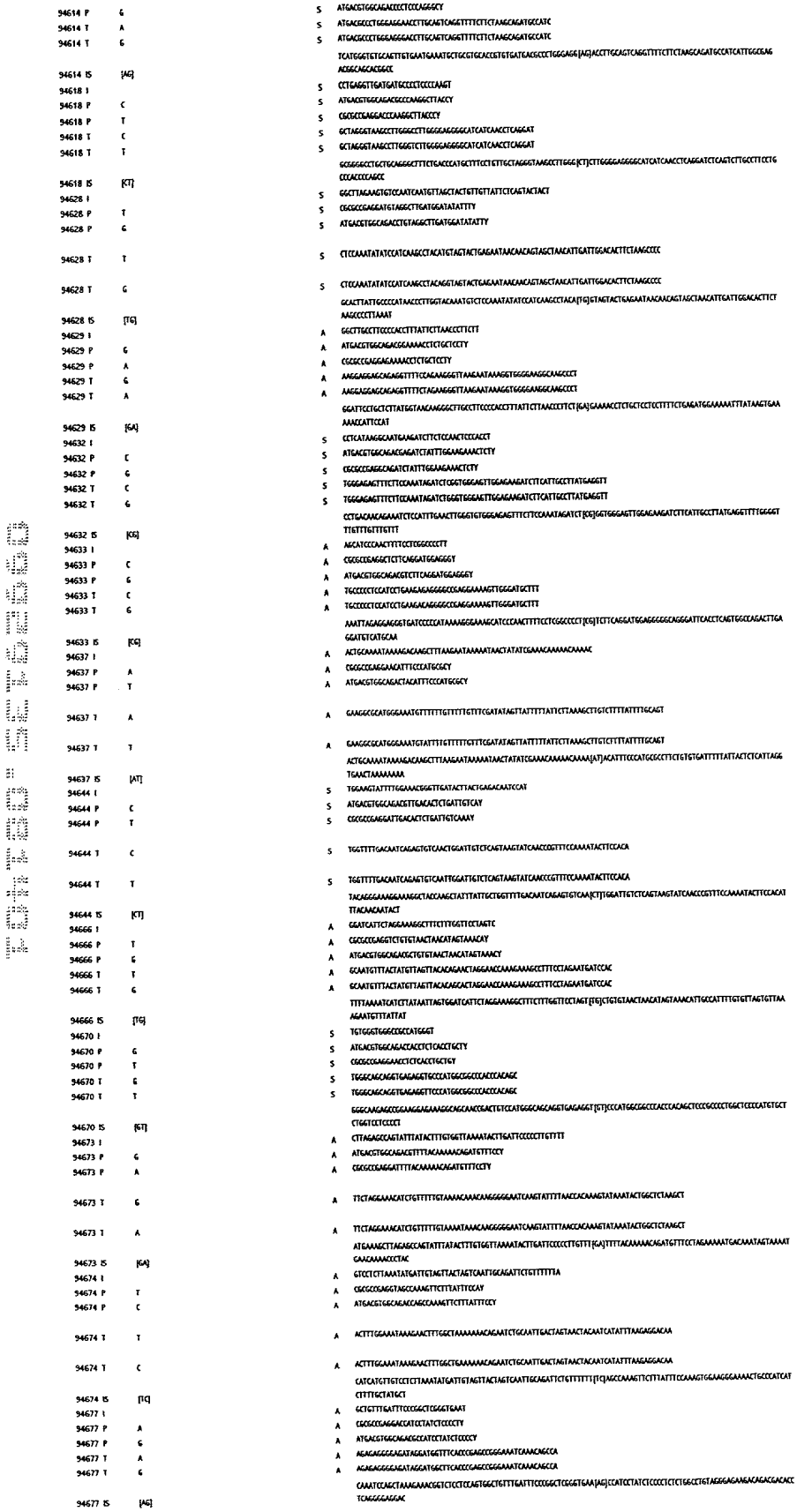


FIGURE 129C

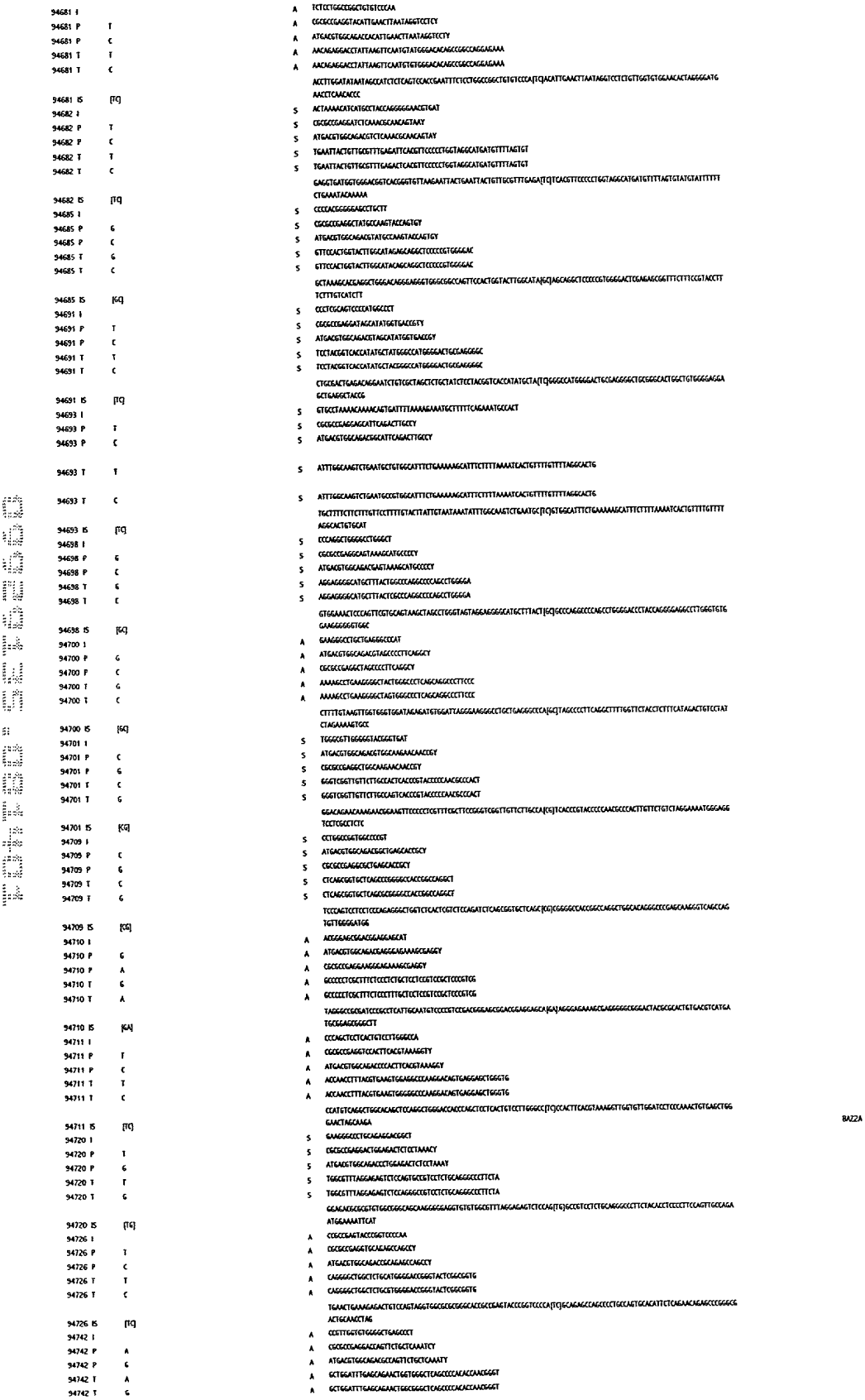


FIGURE 129C

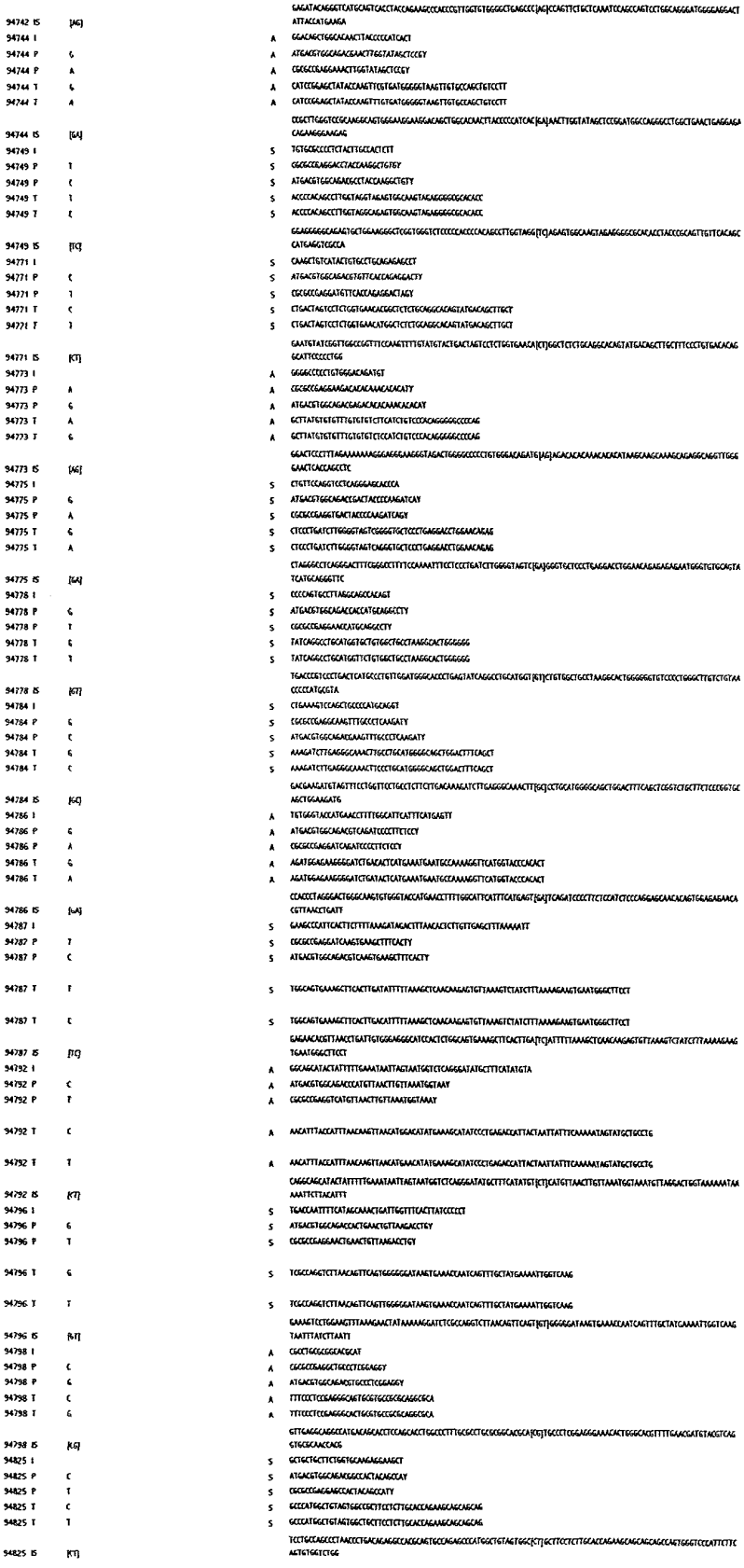


FIGURE 129C

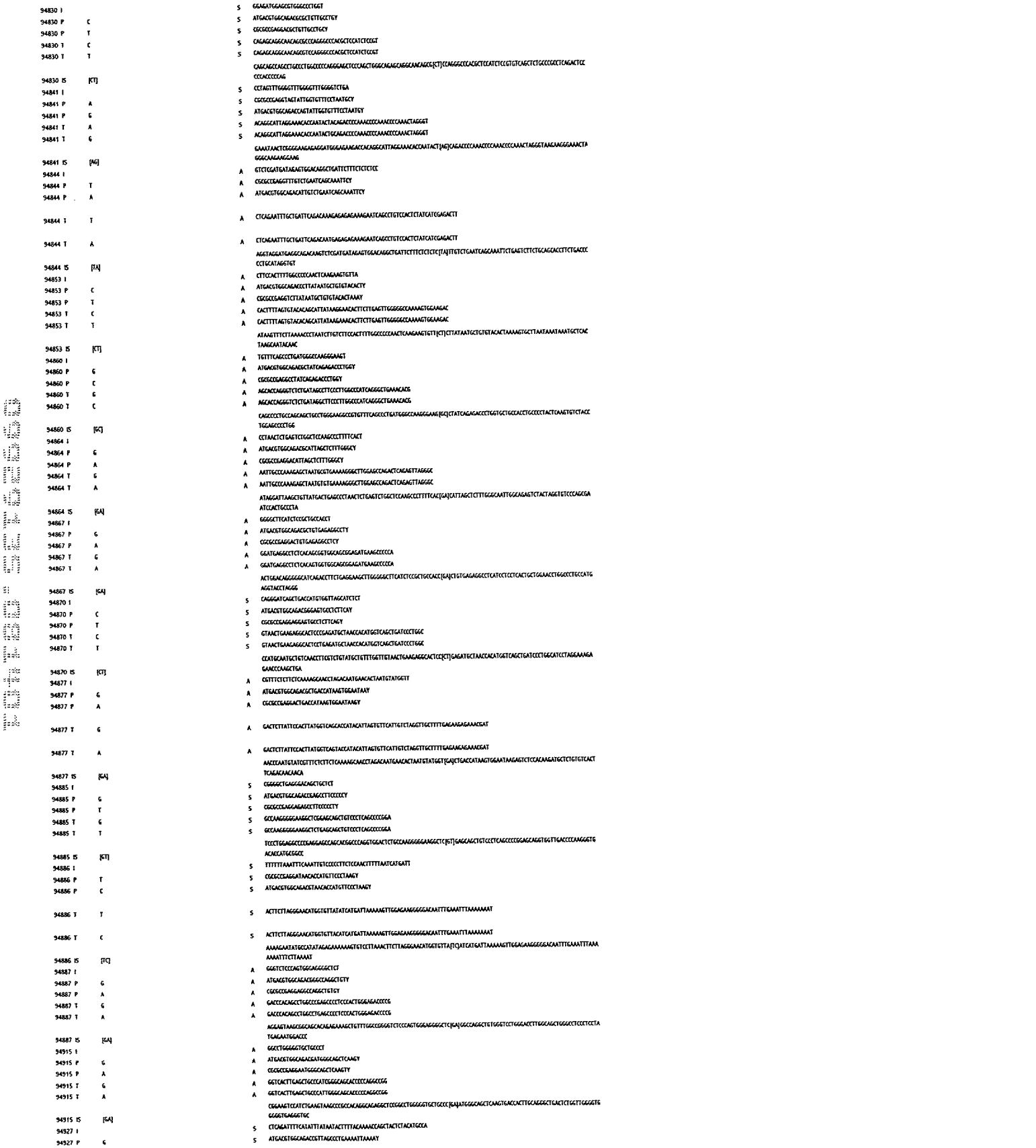
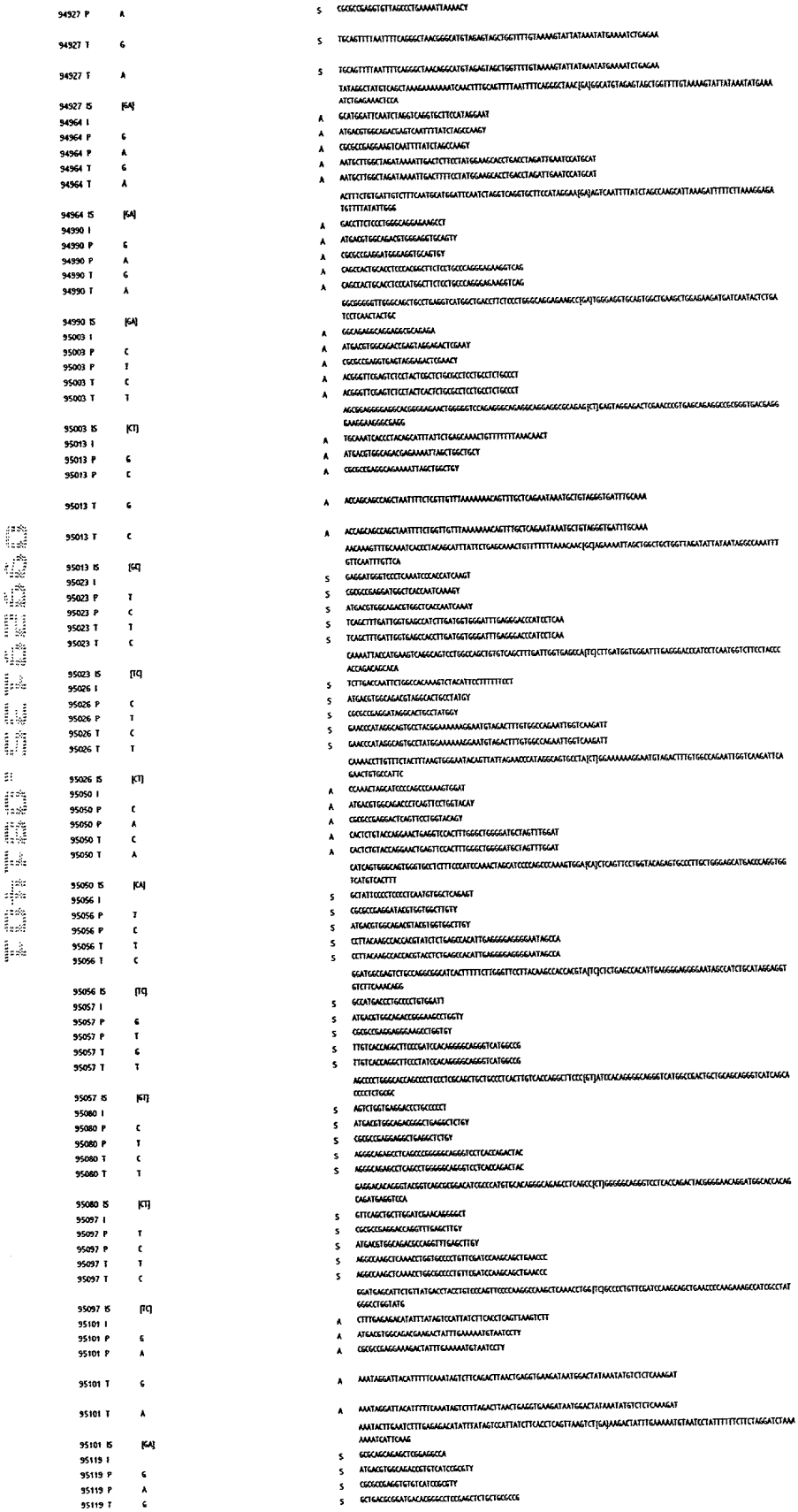
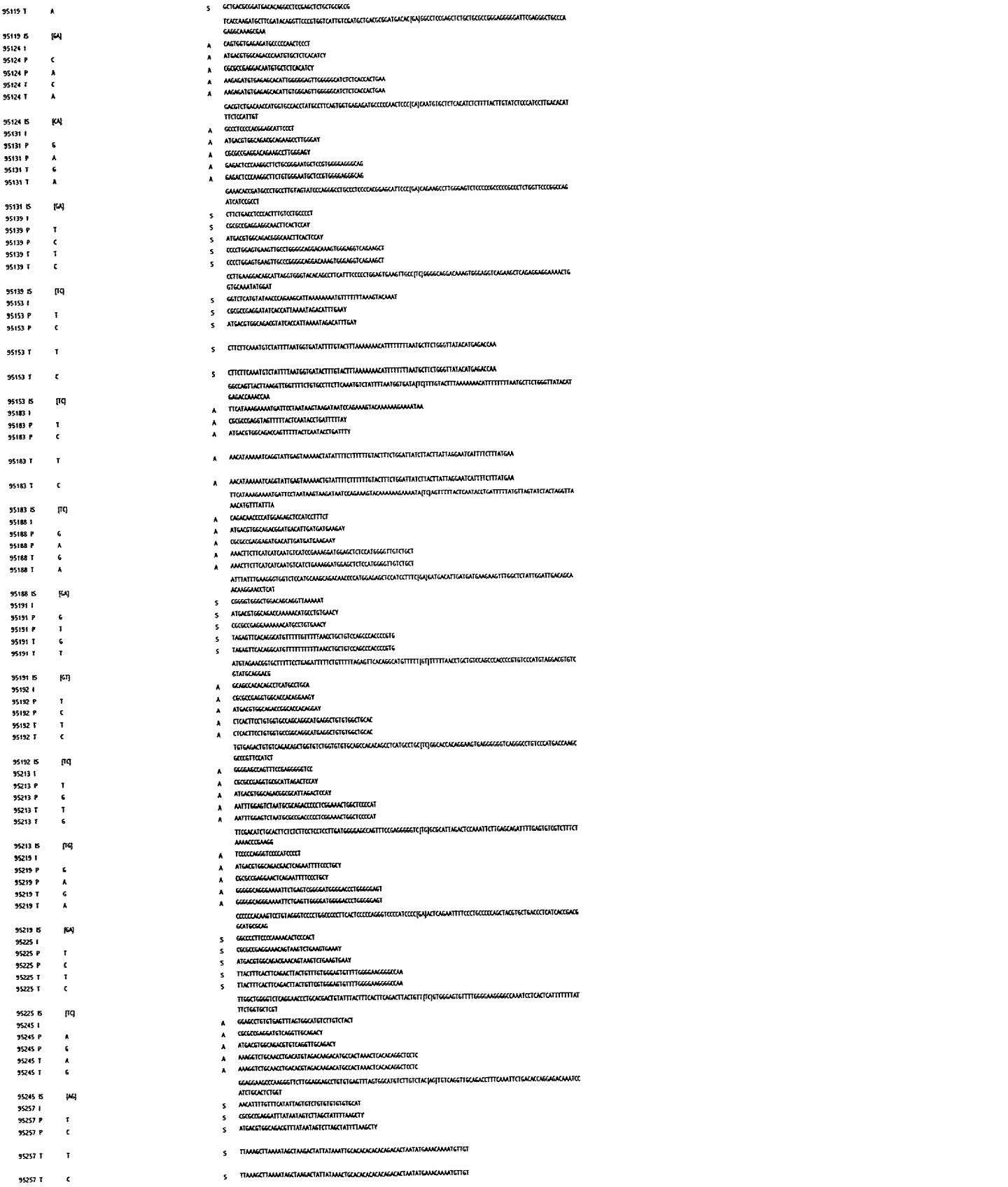
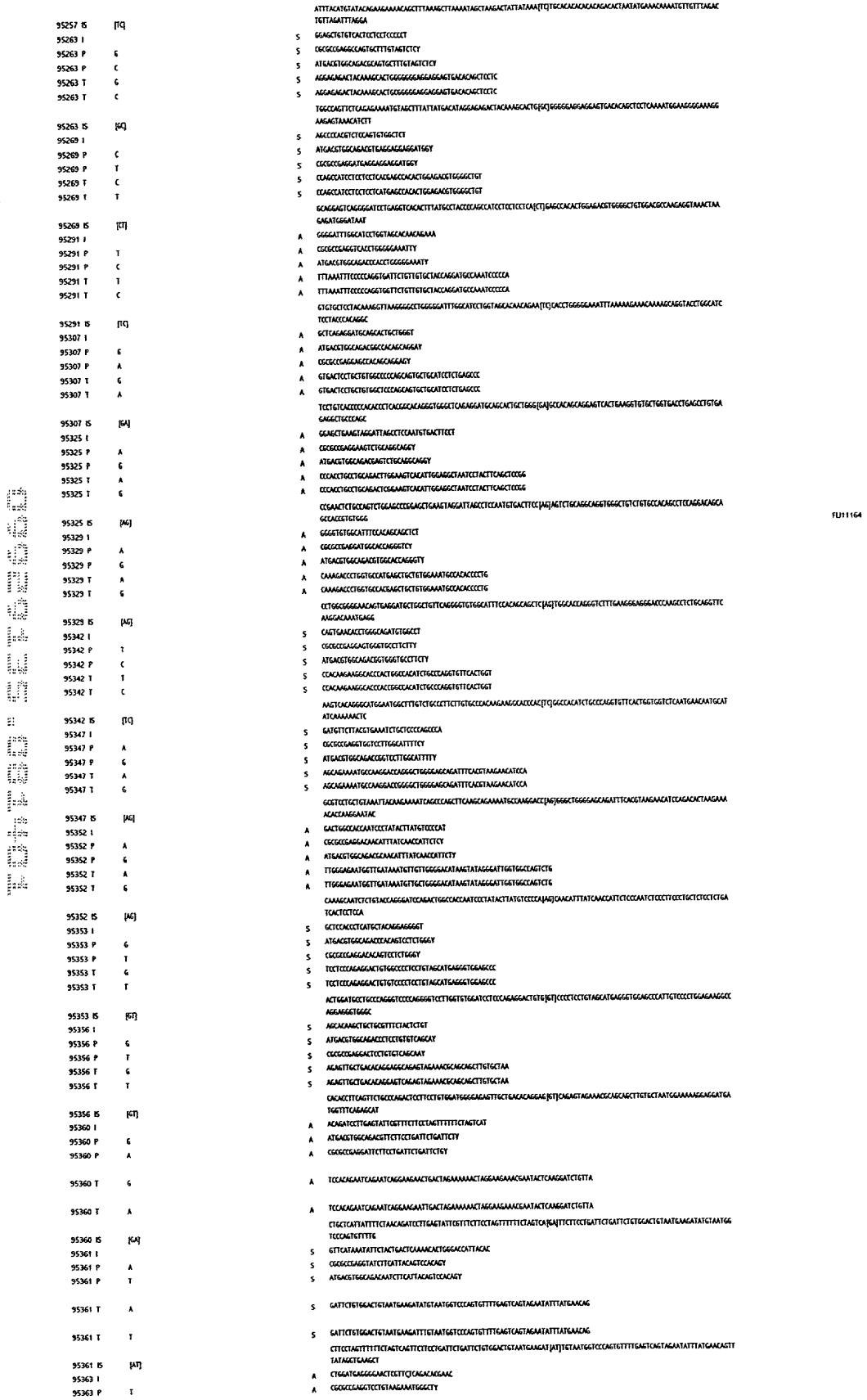


FIGURE 129C

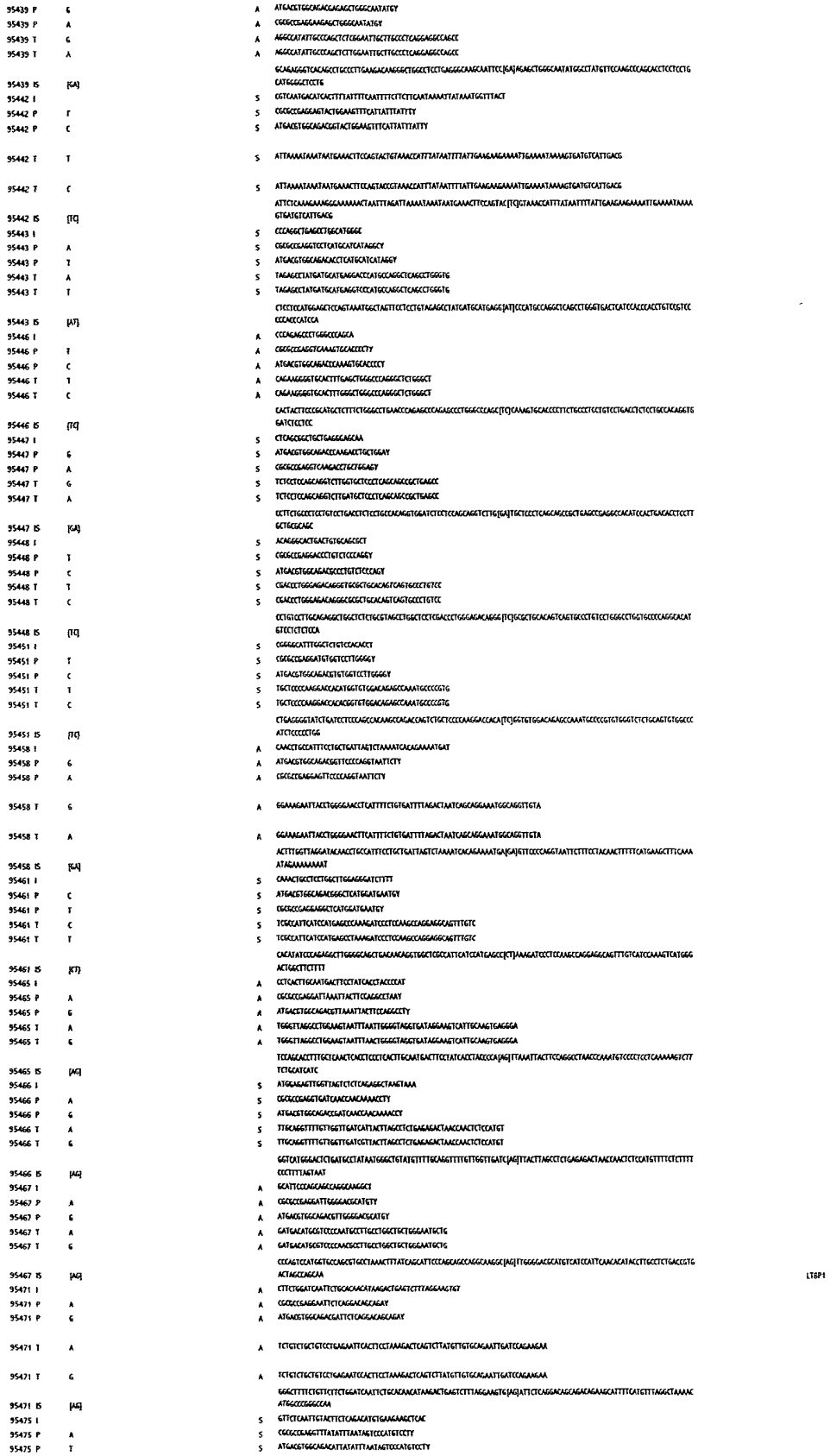




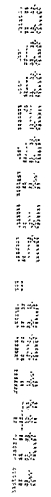


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95363 P   A      A  ATGACGTGGCAGACACCTGTAAGAAATGGGCTY
95363 T   T      A  TAGAAGCCCATTTCTTACAGGATTCGTGTCTGAGAACGAGTTCCCCTCATCCAGCT
95363 T   A      A  TAGAAGCCCATTTCTTACAGGTTCGTGTCTGAGAACGAGTTCCCCTCATCCAGCT
                    GAGGCAGAACAGGGAGATCAGACCGCAGCTGGATGAGGGGAACTCGTTCTCAGACACGAATTA[CCTGTAAGAAATGGGCTCCTAGGCTGCCTATCTACATGCCCCCAAT
95363 IS  [TA]      TTCCCTATCATGG
95365 1            A  GGCTCCAGGAAACTCCACGATGGCAGTGT
95365 P   A      A  CGCGCCGAGGATTCCGCCCTCTGGY
95365 P   G      A  ATGACGTGGCAGACGTTCCGCCCTCTGGY
95365 T   A      A  GCTGCCAGAGGGCGGAATCACTGCCATCGTGGAGTTCCTGGAGCCCC
95365 T   G      A  GCTGCCAGAGGGCGGAACCACTGCCATCGTGGAGTTCCTGGAGCCCC
                    GCCAGATGCCTGAAGGCCTTGCGGGCCTCCAGGGGCTCCAGGAACTCCACGATGGCAGTG[AGTTCCGCCTCTGGCAGCAGCACGCGGCCCAGGCTGCCAAAATGGCCGA
95365 IS  [AG]      AGGTCTCCTGCA                                                                                    MULTIPLE SHORT GENE NAMES
95385 1            S  GACCAGCAGCAGGCTGGGCCTTT
95385 P   T      S  CGCGCCGAGGAGGCATGTACGCTGAY
95385 P   C      S  ATGACGTGGCAGACGGGCATGTACGCTGAY
95385 T   T      S  GACCTCAGCGTACATGCCTAAGGCCAGCCTGCTGCTGGTCAT
95385 T   C      S  GACCTCAGCGTACATGCCCAAGGCCCAGCCTGCTGCTGGTCAT
                    ATGTTCACTGTTCCCTCATCTACATGGGACTCTGCAATACTGGACCTCAGCGTACATGCCC[TC]AAGGCCCAGCCTGCTGCTGGTCATGATGCCCTGCCATCGTCCCACCCAC
95385 IS  [TC]      TCAAGCAAGGA
95386 1            A  CCCAAGCATGAAAACAAAGAAAGGGCTTTCTCAGCT
95386 P   A      A  CGCGCCGAGGAGTGGGAGATTGTTCCTY
95386 P   G      A  ATGACGTGGCAGACGGTGGGGAGATTGTTCCTY
95386 T   A      A  CTAGAGGAACAATCTCCCACTGCTGAGAAAGCCCTTTCTTTGTTTTCATGCTTGGGGC
95386 T   G      A  CTAGAGGAACAATCTCCCACCGCTGAGAAAGCCCTTTCTTTGTTTTCATGCTTGGGGC
                    GATGACCACCACTCATTCATGGTGCCCCAAGCATGAAAACAAAGAAAGGGCTTTCTCAGC[AG]GTGGGAGATTGTTCCTCTAGCAAATACTCTGAGAGGTCTGGTCCTTT
95386 IS  [AC]      TAACCTGGAGAGA
95387 1            A  ACCACGTAGGCTGTCAGCGGGACAT
95387 P   A      A  CGCGCCGAGGATGCCGTGGATCCCY
95387 P   G      A  ATGACGTGGCAGACGTGCCGTGGATCCCY
95387 T   A      A  GGGTGGGATCCACGGCATTGTCCCGCTGACAGCCTACGTGGTGG
95387 T   G      A  GGGTGGGATCCACGGCACTGTCCCGCTGACAGCCTACGTGGTGG
                    ACCTCTGAGGCTGTGCCTGTTTCCAGGAGAGCAACCACCACGTAGGCTGTCAGCGGCACA[AG]TGCCGTGGATCCCACCCTGCAAGGGGACTCACAGGCCTCACCCTAAGC
95387 IS  [AG]      CAAAGGAGACAG
95390 1            A  CTGAGCACAAGTTTTAATCTATACCCTTTTAAGTTGCAAATAACACT
95390 P   G      A  ATGACGTGGCAGACGCAGGGTGCAATGTGY
95390 P   A      A  CGCGCCGAGGACAGGGTGCAATGTGY
95390 T   G      A  TCAGCACATTGCACCCTGCGTGTTATTTGCAACTTAAAAGGGTATAGATTAAAACTTGTGCTCAGTG
95390 T   A      A  TCAGCACATTGCACCCTGTGTGTTATTTGCAACTTAAAAGGGTATAGATTAAAACTTGTGCTCAGTG
                    ACTGAGTTGTTACACTGAGCACAAGTTTTAATCTATACCCTTTTAAGTTGCAAATAACAC[GA]CAGGGTGCAATGTGCTGAACCCAGTAAGAACAATGAACTAAATGTC
95390 IS  [GA]      ATACACTCCTACAC
95392 1            A  GGACCCTGCGCAGAGGACTTTATACAGGGAT
95392 P   A      A  CGCGCCGAGGAGTGATGTTGGAGAATTATAGGY
95392 P   G      A  ATGACGTGGCAGACGGTGATGTTGGAGAATTATAGGY
95392 T   A      A  GGTTCCTATAATTCTCCAACATCACTTCCCTGTATAAAGTCCTCTGCGCAGGGTCCAG
95392 T   G      A  GGTTCCTATAATTCTCCAACATCACCTCCCTGTATAAAGTCCTCTGCGCAGGGTCCAG
                    AGAGTTCTCTCAGGAAGAGTGGAAATGCCTGGACCTGCGCAGAGGACTTTATACAGGGA[AG]GTGATGTTGGAGAATTATAGGAACCTGGTCTTCCTGGGTGAGGATA
95392 IS  [AG]      ATGTCCCCTCAGAA
95396 1            A  AGGAAAAGTTTGCCTTGCCAGTAGGGAAAGTCTCTCT
95396 P   A      A  CGCGCCGAGGATCATTTTCTGCCATAGGCY
95396 P   C      A  ATGACGTGGCAGACCTCATTTTCTGCCATAGGCT
95396 T   A      A  TTTTGCCTATGGCAGAAAATGATGAGAGACTTTCCCTACTGGCAAGCGAAACTTTTCCTTA
95396 T   C      A  TTTTGCCTATGGCAGAAAATGAGGAGAGACTTTCCCTACTGGCAAGCGAAACTTTTCCTTA
                    TATGACAGTTAATCTATCTTATAAGCAAAAGTTCGCTTGCCAGTAGGGAAAGTCTCTC[AG]TCATTTTCTGCCATAGGCAAAAGCATAATTTAAATTTGAAATTTA
95396 IS  [AC]      AGAAACATTCAGAA
95403 1            A  GCACGGAATGAGAGTCCCTAATCACAAGTTAAAGCCAT
95403 P   A      A  CGCGCCGAGGACTGAATCTCAGCCCTTY
95403 P   G      A  ATGACGTGGCAGACGCTGAATCTCAGCCCTY
95403 T   A      A  GAAAAAGGGCTGAGATTCAGTTGGCTTTAACTTGTGATTAGGGACTCTCATTCCGTGCCA
95403 T   G      A  GAAAAAGGGCTGAGATTCAGCTGGCTTTAACTTGTGATTAGGGACTCTCATTCCGTGCCA
                    CCCCGGCATCCCCGCTGTGCCTGGCACGGAATGAGAGTCCCTAATCACAAGTTAAAGCCA[AG]CTGAATCTCAGCCCTTTTCATGATGCACATTTGGAGAATAAAGTAT
95403 IS  [AG]      TTAAGTTACATAT
95406 1            A  CATCAGGGTCCCATGGGAGGCCTTTTGAAT
95406 P   G      A  ATGACGTGGCAGACGATCTTATTTCTGAATTACATGCTY
95406 P   A      A  CGCGCCGAGGAATCTTATTTCTGAATTACATGCTGY
95406 T   G      A  CCACCAGCATGTAATTCAGAAATAAGATCTTCAAAGGCCTCCCATGGGACCCTGATGCC
95406 T   A      A  CCACCAGCATGTAATTCAGAAATAAGATTTTCAAAGGCCTCCCATGGGACCCTGATGCC
                    TTGTAAGTATTTGCTCCTGGGACCAGGAGGGCATCAGGGTCCCATGGGAGGCCTTTTGAA[GA]ATCTTATTTCTGAATTACATGCTGGTGGTCAGCCGCACGTCCCAAGA
95406 IS  [GA]      GGGAAGACTTGGA
95407 1            A  AGGCTCAGGCCAGGGGTGTCTCCT
95407 P   G      A  ATGACGTGGCAGACGGGTCTCACTCCCTCY
95407 P   A      A  CGCGCCGAGGAGGTCTCACTCCCTCTY
95407 T   G      A  GGGGACAGGGAGTGAGACCCGGAGACACCCCTGGCCTGAGCCTCA
95407 T   A      A  GGGGAGAGGGAGTGAGACCTGGAGACACCCCTGGCCTGAGCCTCA
                    GGCTCCCAGGTCCCTGGTAGGGCAGGGGCTGGGTGTGAGGCTCAGGCCAGGGGTGTCTCCC[GA]GGTCTCACTCCCTCTCCCCACAGGGCCCGCAAGCCTGGCTACTTCTCCT
95407 IS  [GA]      TCCTGGACCCCT
95408 1            A  GGAAGAATGCTACAGGGCTCTGTGCCCACT
95408 P   G      A  ATGACGTGGCAGACGCTGATCAGAGACAGCTY
95408 P   A      A  CGCGCCGAGGACTGATCAGAGACAGCTCY
95408 T   G      A  CTGTGAGCTGTCTCTGATCAGCGTGGGCACAGAGCCCTGTAGCATTCTTCCAA
95408 T   A      A  CTGTGAGCTGTCTCTGATCAGTGTGGGCACAGAGCCCTGTAGCATTCTTCCAA
                    GCATGGAGACTGTGACAGCTAGCAGCTCCTTGGAAGAATGCTACAGGGCTCTGTGCCCAC[GA]CTGATCAGAGACAGCTCACAGCGTGTCCTACAAACCAGCAGAGTTC
95408 IS  [GA]      CTCCAGCTCCAGC
95412 1            S  TGAAGATCTGCGGGAAAGGGGGGCAT
95412 P   C      S  ATGACGTGGCAGACGAGGATGGATGGGGTAAY
95412 P   T      S  CGCGCCGAGGAAGCATGGATGGGGTAAAY
95412 T   C      S  GCCTTTTACCCCATCCATCTCTGCCCCCTTTCCCGCAGATCTTCATC
95412 T   T      S  GCCTTTTACCCCATCCATCCTTTGCCCCCCTTTCCCGCAGATCTTCATC
                    GGGGTTGGTAGGAACAGGGGCAGGACCCCACTCAGTCCTGCCTTTTACCCCATCCATCCT[CT]TGCCCCCCTTTCCCGCAGATCTTCATCGCAGCAGGGACCCTACAGTCTTCG
95412 IS  [CT]      CCCCCATCCTC
95420 1            A  GCTTGACCGTGTATCCTAGAATGAGTCACTGGCCT
95420 P   A      A  CGCGCCGAGGAGCCTCTGCCTCTTGAATY
95420 P   G      A  ATGACGTGGCAGACGCCTCTGCCTCTTGAY
95420 T   A      A  CAAAATTCAAGAGGCAGAGGTGGCCAGTGACTCATTCTAGGATACACGGTCAAGCAA
95420 T   G      A  CAAAATTCAAGAGGCAGAGGCGGCCAGTGACTCATTCTAGGATACACGGTCAAGCAA
                    GCAAGTTTTGTCAGTTTTTGATTCTGCTTGACCGTGTATCCTAGAATGAGTCACTGGCC[AG]CCTCTGCCTCTTGAATTTTGTTAACTACATTGCAGGAAGGAAAGCTA
95420 IS  [AG]      GAAAGATAAATAT
95439 1            A  CTGGCCTCCTGAGGGCAAGCAATTCCT
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FIGURE 129C



Page 355



95475 T A S TTCTAGGACATGGGACTATTAAATATAAATGAGCTTCTTCACATGTCTGAGAAGTACAATTGAGAACTA

95475 T T S TTCTAGGACATGGGACTATTAAATATAATTGAGCTTCTTCACATGTCTGAGAAGTACAATTGAGAACTA

95475 IS [AT] TAATGTGATTTTTTTCAGAGATAGATTTAGAGTTCCAGGACATGGGACTATTAAATATAA[AT]TGAGCTTCTTCACATGTCTGAGAAGTACAATTGAGAACTACATCAA AGAAGTTTTCTATA

95476 I S TGAGTGGAATCTTTTATGATCTACAGTAAGGCTTAGTGATGATTAAATTTC

95476 P C S ATGACGTGGCAGAGCATTTTACCCTGGGATTY

95476 P A S CGCGCCGAGGTCATTTTACCCTGGGATTGY

95476 T C S TCTACAATCCCAGGGTAAAATGCAAATTTAATATCATCACTAAGCCTTACTGTAGATCATAAAAGATTCCACTCATT

95476 T A S TCTACAATCCCAGGGTAAAATGAAAATTTAATATCATCACTAAGCCTTACTGTAGATCATAAAAGATTCCACTCATT

95476 IS [CA] AGGTATCATCATAGTTACAAATCTGCTAAAACTGGGTTTCTACAATCCCAGGGTAAAATG[CA]AATTTAATATCATCACTAAGCCTTACTGTAGATCATAAAAGATTC CACTCATTATGCTG

95489 I S TGAAAACCATGTTAATTTAATAGTGTTTTATATTCAACATTTTTAACGTTTCTTTTTCCT

95489 P C S ATGACGTGGCAGAGCGATGAATTCTTGAAAAATAAGACTTTCY

95489 P T S CGCGCCGAGGAATGAATTCTTGAAAAATAAGACTTTCY

95489 T C S AAAAGAAAGTCTTATTTTTCAAGAATTCATCGGAAAAAGAAACGTTAAAAATGTTGAATATAAAAACACTATTAAATTAACATGGTTTTCA

95489 T T S AAAAGAAAGTCTTATTTTTCAAGAATTCATTGGAAAAAGAAACGTTAAAAATGTTGAATATAAAAACACTATTAAATTAACATGGTTTTCA

95489 IS [CT] ATATTGATTCACAGAATGTAGACAGGTTATAAAAGAAAGTCTTATTTTTCAAGAATTCAT[CT]GGAAAAAGAAACGTTAAAAATGTTGAATATAAAAACACTATTAAA TTAACATGGTTTTCA

95493 I S AGTACGAGGACGTAAGTATGTCTTTAAAAACTATTGCTGTGTGTTTAACTT

95493 P T S CGCGCCGAGGATACTTTGAATCCACATTTGGAY

95493 P G S ATGACGTGGCAGACCTACTTTGAATCCACATTTGGY

95493 T T S CAGTTCCAAATGTGGATTCAAAGTATAGTTAAACACACAGCAATAGTTTTTAAAGACATACCTACGTCCTCGTACTAG

95493 T G S CAGTTCCAAATGTGGATTCAAAGTAGAGTTAAACACACAGCAATAGTTTTTAAAGACATACCTACGTCCTCGTACTAG

95493 IS [TG] CAAAAAATTAACAACTCATCCCCCAAATTACTTTCCAGTTCCAAATGTGGATTCAAAGTA[TG]AGTTAAACACACAGCAATAGTTTTTAAAGACATACCTACGTCCTCGT ACTAGTAGTCTGG

95495 I S GGCGTGTTAACTCCCAAACACCTCATCTCA

95495 P A S CGCGCCGAGGTGAGCATGCTTTAACTTCCY

95495 P G S ATGACGTGGCAGACCGAGCATGCTTTAACTTCY

95495 T A S AGTAGGAAGTTAAAGCATGCTCAGACATGAGGTGTTTGGGAGTTAACACGCCAC

95495 T G S AGTAGGAAGTTAAAGCATGCTCGGAGATGAGGTGTTTGGGAGTTAACACGCCAC

95495 IS [AG] AAAACAGACTGATCCAGCTATAAAATGCCAAACATATGAGTAGGAAGTTAAAGCATGCTC[AG]GAGATGAGGTGTTTGGGAGTTAACACGCCACTTTAAATTTCAATTT GAATACTGTGGATA

95500 I A CAGGAGGTTCCCGGGTCTCGCTCAGAT

95500 P G A ATGACGTGGCAGACGTCGACCAGGTATGCGY

95500 P A A CGCGCCGAGGATCGACCAGGTATGCGY

95500 T G A CAGACGCATACCTGGTCGACTCTGAGCAGACGCGGCGAACCTCCTGCA

95500 T A A CAGACGCATACCTGGTCGAATTCTGAGCAGACGCGGCGAACCTCCTGCA

95500 IS [GA] CATACCGAGGCTCCTTCGGCCTGGCCCTGAAGGTGCAGGAAGGTTCCCCGCGTCTGCTCAGA[GA]TCGACCAGGTATGCGTCTGTCTCTGTGCTCACTCAAGGCCTCACTGAG GCAGCGGGCTGT

95503 I A CCTAGGCCCTTGTCCCACCCCCGT

95503 P A A CGCGCCGAGGAGGTGCCTCTGCTGY

95503 P C A ATGACGTGGCAGACCGGTGCCTCTGCTY

95503 T A A AAGGCAGCAGACAGCCACCTCGGGGGTGGGACAAGGGCCTAGGCA

95503 T C A AAGGCAGCAGAGGCCACCGCGGGGGTGGGACAAGGGCCTAGGCA

95503 IS [AC] CTGAGGGCTCCTATCCCATCCTGGCCCCACCCACATGCCTAGGCCCTYGTCCCACCCCCG[AC]GGTGCCTCTGCTGCCTTGGCAGCAGCTGACACTGCCCTATCCCGGGTCCA GCGGGGCTGC

95517 I S GGCATCCTGGACCCCCGGCCA

95517 P G S ATGACGTGGCAGACGGGTGTGGTCACCAY

95517 P A S CGCGCCGAGGTGGTGTGGTCACCAAY

95517 T G S GCCCTTGGTGACCACACCGGGCCGGGGGTCCAGGATGCCCC

95517 T A S GCCCTTGGTGACCACACCAGGCCGGGGGTCCAGGATGCCCC

95517 IS [GA] AAGGCAGTACACTTCGTCCAGGTCAACATCCAGCGTCCGGAAGCCCTTGGTGACCACACC[GA]GGCCGGGGGTCCAGGATGCCCCCAAGGTGAGGTTGGGCCAACTGCTG CCAGTGGTGAAGT KIAA1042

95528 I A CCAGCATCTATCCGTCGCCCTCCCATTACT

95528 P G A ATGACGTGGCAGAGCGCTTCAGATATAAAAGCCCTY

95528 P A A CGCGCCGAGGACTTCAGATATAAAAGCCCTCY

95528 T G A ATTTGAGGGCTTTTATATCTGAAGCGTAATGGGCAGGGCGCACGGATAGATGCTGGGT

95528 T A A ATTTGAGGGCTTTTATATCTGAAGTGTAATGGGAGGGCGCACGGATAGATGCTGGGT

95528 IS [GA] ACAAGAGGCAAGTGTGGAGGCCACATCCCACCCAGCATCTATCCGTCGCCCTCCCATTAC[GA]CTTCAGATATAAAAGCCCTCAAATCAGGACTTTGTCAGAATGGCCCCA GTTTGCACTCCA

95543 I S ACAAACACCAGCAGTGGCAGACACACACTCT

95543 P T S CGCGCCGAGGAAGGATTACACAGAGATAGACAT

95543 P C S ATGACGTGGCAGACAGGATTACACAGAGATAGACY

95543 T T S GCCTTGTCTATCTCTGTGTAATCCTCGAGTGTGGTCTGCCACTGCTGGTGTTTGTTT

95543 T C S GCCTTGTCTATCTCTGTGTAATCCTCGAGTGTGGTCTGCCACTGCTGGTGTTTGTTT

95543 IS [TC] AGATGGTCTATTTGACTTTTCCTGCTCCTCTCAAGGCCTTGTCTATCTCTGTGTAATCCT[TC]GAGTGTGGTCTGCCACTGCTGGTGTTTGTTTTCTGAGCTGGAGGAAG TTTAAGATCTTG

95546 I A CCTACAACTGGTGTTTCAACTGGCCGGAGAGTAGC

95546 P G A ATGACGTGGCAGACGACTAGGATTGGGAACAGY

95546 P T A CGCGCCGAGGTACTAGGATTGGGAACAGGY

95546 T G A ACCTCCTGTTCCCAATCCTAGTCCTACTCTCCGGCCAGTTGAAACACCAGTTGTAGGTG

95546 T T A ACCTCCTGTTCCCAATCCTAGTACTACTCTCCGGCCAGTTGAAACACCAGTTGTAGGTG

95546 IS [GT] TGGAAACACTGCCCATACCAGGAGCACCTACAACTGGTGTTTCAACTGGCCGGAGAGTAG[GT]ACTAGGATTGGGAACAGGAGGTGGAAGTATGAGAAGAGGAGAGGC TGTATCTGAAGGAAT

95574 I S GGGGTCCCTGCCCTGAGACGCAT

95574 P C S ATGACGTGGCAGACGGAGTTTTGAATGTGATGATGY

95574 P G S CGCGCCGAGGCGAGTTTTGAATGTGATGATGY

95574 T C S GCCACATCATCACATTCAAAACTCCTGCGTCTCAGGGCAGGGACCCCTC

95574 T G S GCCACATCATCACATTCAAAACTCGTGCGTCTCAGGGCAGGGACCCCTC

95574 IS [CG] TCAGCCTTATCTTGTTTAAACAGCTCCTGTGGGTCTGCCACATCATCACATTCAAAACTC[CG]TGCGTCTCAGGGCAGGGACCCCTCATGCGGGTCTCCTCTAGGTCCCCG AATGCCAGCAT

95591 I A TGGTATTTCTTGTCTTATTTCCCCAGTGCAAAATAAAAAACAGAATATAA

95591 P T A CGCGCCGAGGTGCTGTCGGATAAAAAATAGTY

95591 P C A ATGACGTGGCAGACCGCTGTCGGATAAAAAATAGY

95591 T T A AACTACTATTTTTTATCCGCACAGCATATATTCTGTTTTTTATTTTGCACTGGGGAAATAAGACAAGAAATACCAAA

95591 T C A AACTACTATTTTTTATCCGCACAGCGTATATTCTGTTTTTTATTTTGCACTGGGGAAATAAGACAAGAAATACCAAA

95591 IS [TC] TTATCAGCATTTGGTATTTCTTGTCTTATTTCCCCAGTGCAAAATAAAAAACAGAATATA[TC]GCTGTCGGATAAAAAATAGTAGTTACTCAAATTGAATTCAATTCAG GAACTTTTCTTAA

95593 I A CCTCATATAAGCATGATAGATAGTTTTGGATAATAATAAGTTCTTTCAGGCTATAAAT

FIGURE 129C



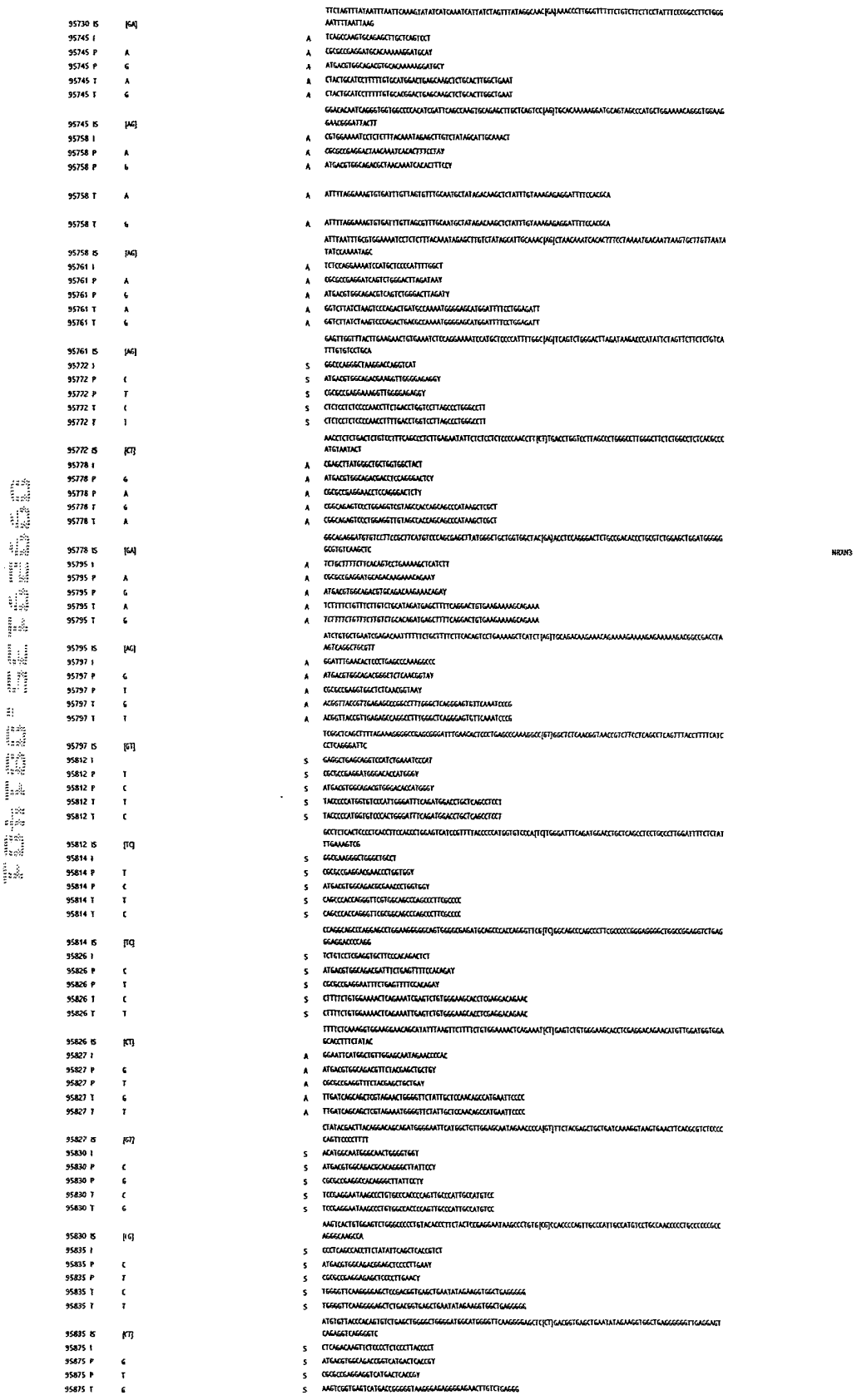


FIGURE 129C

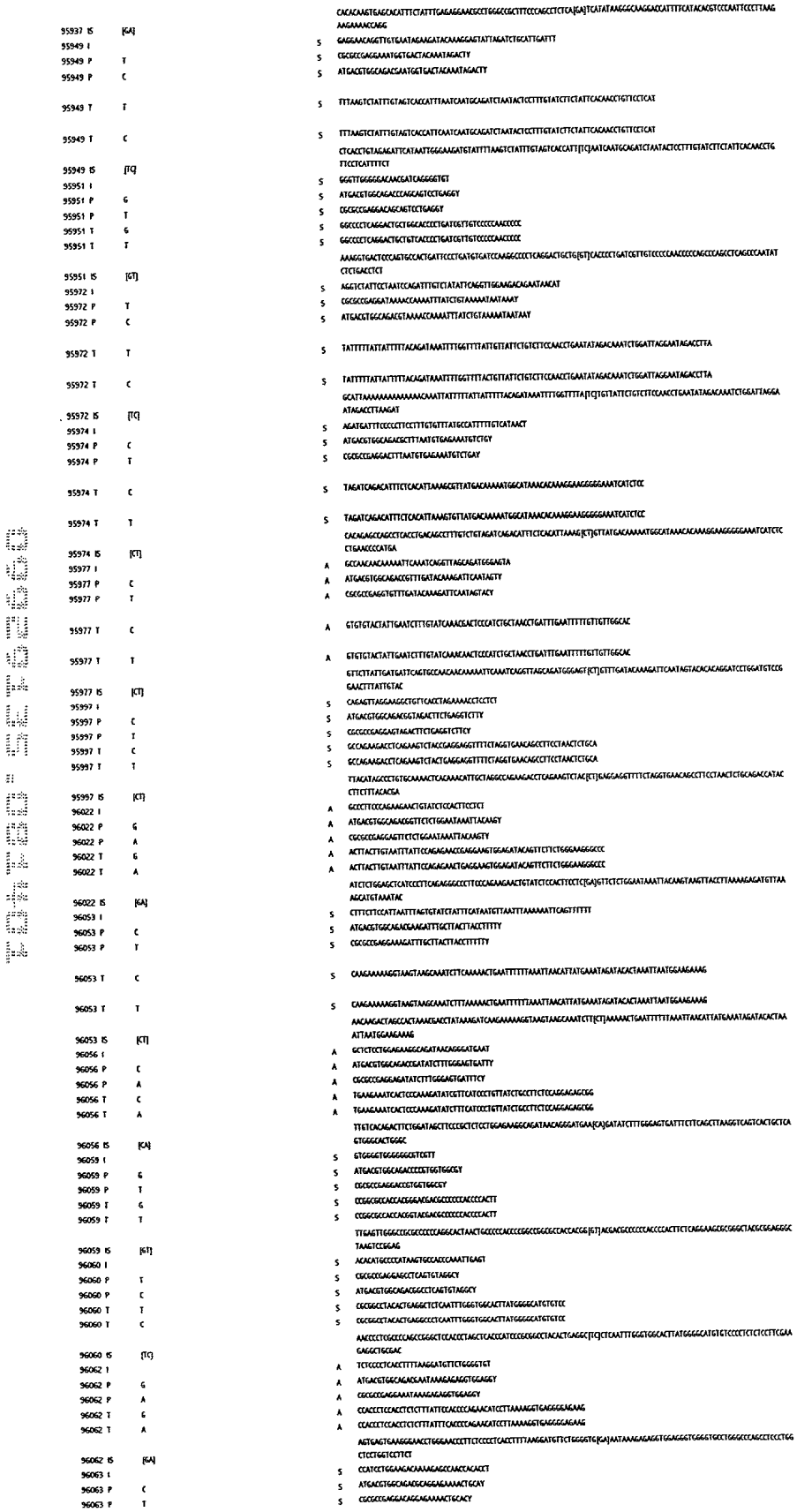
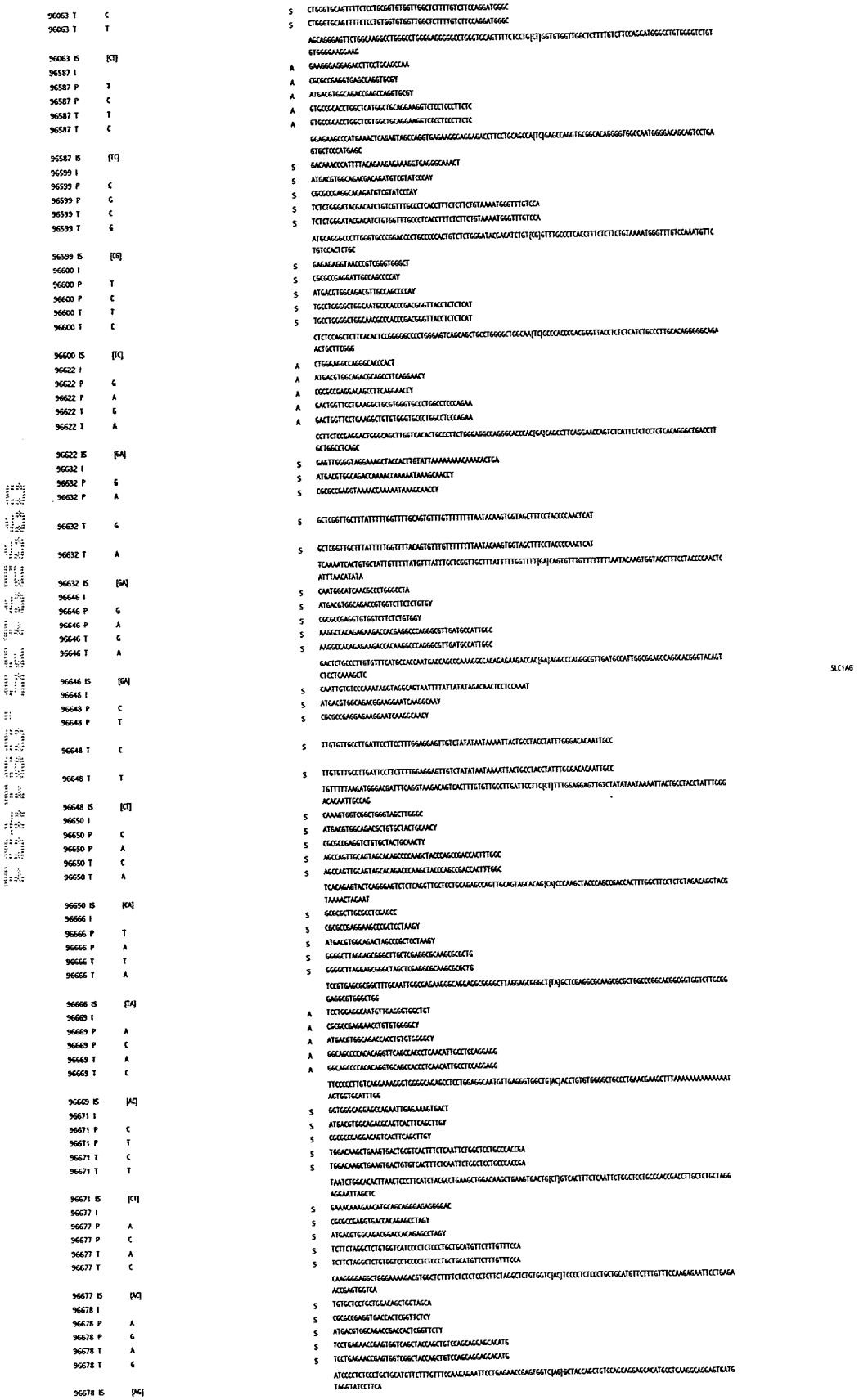
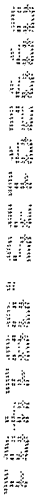


FIGURE 129C



SLC1A6



96681	I		A	GGACCCCTCAGCCCAGCATGGGT	
96681	P	C	A	ATGACGTGGCAGACCCACCTCCACTGCAY	
96681	P	A	A	CCCGCCGAGGACACCTCCACTGCAGY	
96681	T	C	A	TGTACTGCAGTGGAGGTGCCCATGCTGGGCTGAGGGTCCCT	
96681	T	A	A	TGTACTGCAGTGGAGGTGTCCCATGCTGGGCTGAGGGTCCCT	
96681	IS	[CA]		CAGGGACAGCCCCAGACAGGAAGCCCTGCCCCACCAGGGACCCCTCAGCCCAGCATGGG[CA]CACCTCCACTGCAGTACACTGTGGAGGGTGGCATGGCGTCACCTGTCG TGAGCAGCCAGG	
96682	I		A	CCCCCACAGCCAGGTTACCTCCTTGTTTTTTTCA	
96682	P	T	A	CGCGCCGAGGTTTGTCCACAGCAGTCY	
96682	P	C	A	ATGACGTGGCAGACCTTGTCCAACAGCAGTCY	
96682	T	T	A	TGTGGACTGCTGTGGACAAGAAAAAAACAAGGAGGTAACCTGGCTGTGGGGGGG	
96682	T	C	A	TGTGGACTGCTGTGGACAAGGAAAAAACAAGGAGGTAACCTGGCTGTGGGGGGG	
96682	IS	[TC]		TGTGAAGTGGTGCCCGGGCCACTCCCCCCCCACAGCCAGGTTACCTCCTTGTTTTTTTC[TC]TGTCCACAGCAGTCCACACGAAGCCGAAGGCCCCACTGCCCAGCGGGC TCATGGTACTG	
96684	I		A	GCAAGAACAGGCGGGTCCTGGCT	
96684	P	G	A	ATGACGTGGCAGACGGCTGAGTCGCGTY	
96684	P	A	A	CGCGCCGAGGAGCTGAGTCGCGTTY	
96684	T	G	A	AGCCAACGCGACTCAGCTGCCAGGACCCGCCTGTTCCTTGCCA	
96684	T	A	A	AGCCAACGCGACTCAGCTGCCAGGACCCGCCTGTTCCTTGCCA	
96684	IS	[GA]		CTCAGCAGCGGTAGAGTGGGTGCAGCCGGGCAGGCTGGCAAGCAACAGGCGGGTCCTGGC[GA]GCTGAGTCGGCTTGGCTGTGGAGGAGGTCTTTCACCAGCCAGCAGC AGAACAGAGGTGTG	KIAA0135
96694	I		A	CCATGGCCAGCCAAGGGGCCACT	
96694	P	A	A	CGCGCCGAGGAACCCCACCTCTTCCY	
96694	P	G	A	ATGACGTGGCAGACGACCCACCTCTTCCY	
96694	T	A	A	CAGGGGAAGAGGTGGGGTGTGTGGCCCCTTGGCTGGCCATGGCC	
96694	T	G	A	CAGGGGAAGAGGTGGGGTCGTGGCCCCTTGGCTGGCCATGGCC	
96694	IS	[AG]		CGTTCTTGGGAGTCTGAGCACCAGGGAAGAGGAAGAGGGAAGGGCCATGGCCAGCCAAGGGGCCAC[AG]ACCCCACCTCTTCCCCCTCTCTCCTCCAGAGGAATGCCACAACCCCAC CAATGCCTGAAC	
96696	I		A	GCCAACTCCAGGGCAGGGGCATGC	
96696	P	A	A	CGCGCCGAGGAATGGAATGCCCCCTY	
96696	P	T	A	ATGACGTGGCAGACTATGGAATGCCCCCTCY	
96696	T	A	A	AGGTGAGGGGGGCATTCCATTCATGCCCCTGCCCTGGAGTTGGCTC	
96696	T	T	A	AGGTGAGGGGGGCATTCCATACATGCCCCTGCCCTGGAGTTGGCTC	
96696	IS	[AT]		TCCCTGCACCCTGCCCTGTGAGCTGTGTCTGTCCAGAGCCAACTCCAGGGCAGGGGCATG[AT]ATGGAATGCCCCCTCACCTTCCAACTAGGTAAAGTCCCCAGCAGGCT CCCAGCTGGGCT	
96718	I		S	CCAGACCCTGTGGTACCCCCAATTTCTTGGT	
96718	P	C	S	ATGACGTGGCAGACGAATCCTCATCCCAGGCY	
96718	P	T	S	CGCGCTGAGGAAATCCTCATCCCAGGCY	
96718	T	C	S	CCAGGCCTGGGATGAGGATTCCCCAAGAAATTGGGGGTACCACAGGGTCTGGGG	
96718	T	T	S	CCAGGCCTGGGATGAGGATTTCCCAAGAAATTGGGGGTACCACAGGGTCTGGGG	
96718	IS	[CT]		AGAGCCTGGGGTGGGTGGTAGGACAGAAATCAGGGCTCCTCCAGGCCTGGGATGAGGATT[CT]CCAAGAAATTGGGGGTACCACAGGGTCTGGGGGGCAGGGCAGACAC CCCCAAAGCTCCTC	
96719	I		A	GCGAGCGCCAAAACAAAAAACTGGACTCTGGA	
96719	P	C	A	ATGACGTGGCAGACCGGGCATGTGGGCY	
96719	P	T	A	CGCGCCGAGGTGGGGATGTGGGCY	
96719	T	C	A	TCTTGCCCACATCCCCCCACAGAGTCCAGTTTTTGTTTGGCGCTCGCTG	
96719	T	T	A	TCTTGCCCACATCCCCACCAGAGTCCAGTTTTTGTTTGGCGCTCGCTG	
96719	IS	[CT]		CACAAAAAGTGACAAGTCTTGGGGTCTCAGCGAGCGCCAAAACAAAAAACTGGACTCTGG[CT]GGGGATGTGGGCAAGAAGCGACTAAGCGAGGAAGCAAACCAGTTT GGGCCTCCGAGAAAT	
96720	I		S	GCGGGAGGGTGGGGTCCCCC	
96720	P	A	S	CGCGCCGAGGTATGTCCAGGGGCACTGY	
96720	P	C	S	ATGACGTGGCAGACGATGTCCAGGGCACTGY	
96720	T	A	S	GCTCCAGTCCCCTGGACATAGGGGACCCCACCCTCCCGCCT	
96720	T	C	S	GCTCCAGTCCCCTGGACATCGGGGACCCCACCCTCCCGCCT	
96720	IS	[AG]		CAGAGGCCAAAGGCCTTGTCACTGGGAAATCTGTCCCCTCATGGCTCCAGTCCCCTGGACAT[AG]GGGGACCCCACCCTCCCGCCTGCAAGCGGCCCCTCACCGTGGTAGGGC AGAGCACATAGG	
96724	I		S	CATTTCTTGCCAAGAACTTTAAGAATAGGTTTAGGTCCAGATTGGGT	
96724	P	C	S	ATGACGTGGCAGAGGTTAGGCTCATTCTTGTTGGT	
96724	P	T	S	CGCGCCGAGGATTAGGCTCATTCTTGTTGGY	
96724	T	C	S	TTCCCCAACAAGAATGAGCCTAACCCCAATCTGGACCTAAACCTATTCTTAAAGTTCTTGGCAAGAAATGCA	
96724	T	T	S	TTCCCCAACAAGAATGAGCCTAATCCCAATCTGGACCTAAACCTATTCTTAAAGTTCTTGGCAAGAAATGCA	
96724	IS	[CT]		GTCTCCAGGGGGTCATTTCTTCCAGCCTCCCTTCCCAATTCCCCCAACAAGAATGAGCCTAA[CT]CCCAATCTGGACCTAAACCTATTCTTAAAGTTCTTGGCAAGAAATGCA GATTCCAGAGCA	
96738	I		S	CGGTCTGAGCTCACCCAGGTCCAGGT	
96738	P	C	S	ATGACGTGGCAGACGCCACCTGGTCCAY	
96738	P	T	S	CGCGCCGAGGACCACCTGGTCCACY	
96738	T	C	S	GGAAGTGGACCAGGTGGCCCTGGACCTGGGTGAGCTCAGACCTAG	
96738	T	T	S	GGAAGTGGACCAGGTGGTCCTGGACCTGGGTGAGCTCAGACCTAG	
96738	IS	[CT]		CCCAGCGGGGGCAGCAAAGACTCATCCTCCTAGGAACTTGAGGGGAAGTGGACCAGGTGG[CT]CCTGGACCTGGGTGAGCTCAGACCTGAGCCAAGGGGGGACTGACCGT GGCTAAGGCTCCA	PLD2
96740	I		A	GTTAAAGATGTCAAAGGTCAGGAAGATTAAAGAAGTCAGGGGA	
96740	P	C	A	ATGACGTGGCAGACCGGGTCATTGAGGTCAY	
96740	P	T	A	CGCGCCGAGGTGGGTCATTGAGGTCAGY	
96740	T	C	A	CCTCCTGACCTCAATGACCGCCCCGTGACTTCTTTAATCTTCCTGACCTTGACATCTTAACCA	
96740	T	T	A	CCTCCTGACCTCAATGACCACCCCGTGACTTCTTTAATCTTCCTGACCTTGACATCTTAACCA	
96740	IS	[CT]		TCAGAGAGATCAATGTGGTTAAAGATGTCAAAGGTCAGGAAGATTAAAGAAGTCACGGGG[CT]GGGTCATTGAGGTCAGGAGGGTTCAGATGAAGAAAGAGAGGATG AAGGACTCAGAGATTA	
96742	I		A	ACGTCGTGGAACCACCATGGTGCTGAA	
96742	P	C	A	ATGACGTGGCAGACCGCTGTCTGTATCCCCY	
96742	P	T	A	CGCGCCGAGGTGCTGTCTGTATCCCCY	
96742	T	C	A	CGATGGGGATACAGACAGCGTCAGCACCATGGTGGTCCACGACGTCG	
96742	T	T	A	CGATGGGGATACAGACAGGATCAGCACCATGGTGGTCCACGACGTCG	
96742	IS	[CT]		CCCCGTATGGGGGCTGGGTCCCGGTGATCTCCTCGACGTCGTGGACCACCATGGTGCTGA[CT]GCTGTCTGTATCCCCATCGCTGCTGTGAGACAGGAAGGTGGGGCCCCT CCAGGTCCTGCC	
96746	I		A	CTCTGGTTCTGGAGGGAGCTGACACTGGT	
96746	P	A	A	CGCGCCGAGGACACCAATGAACTGCY	
96746	P	G	A	ATGACGTGGCAGACGCAGCCAATGAACTGCY	
96746	T	A	A	TGCAGCAGTTCATTGGCTGTCCAGTGTCAGCTCCCTCCAGAACCAGAGCC	
96746	T	G	A	TGCAGCAGTTCATTGGCTGCCCAGTGTCAGCTCCCTCCAGAACCAGAGCC	
96746	IS	[AG]		CCCAGAGGTTCTCAAAGGCAGATAATCCCTGGCTCTGGTTCTGGAGGGAGCTGACACTGG[AG]CAGCCAATGAACTGCTGCAGTGGGAGGAGGGGCCTTTACTTTTTCTT ATAAGCTTCTGCT	
96747	I		A	CCGTGGCCTTCCAGCGTCATTGCCT	
96747	P	G	A	ATGACGTGGCAGACGGCCTTCCCTCTCCY	
96747	P	A	A	CGCGCCGAGGAGCCTTCCCTCTCCTY	
96747	T	G	A	CGGAAGGAGAGGCAAGCCGGCAATGAGCTGGAAGGCCACGGGA	
96747	T	A	A	CGGAAGGAGAGGCAAGCTGGCAATGACGCTGGAAGGCCACGGGA	



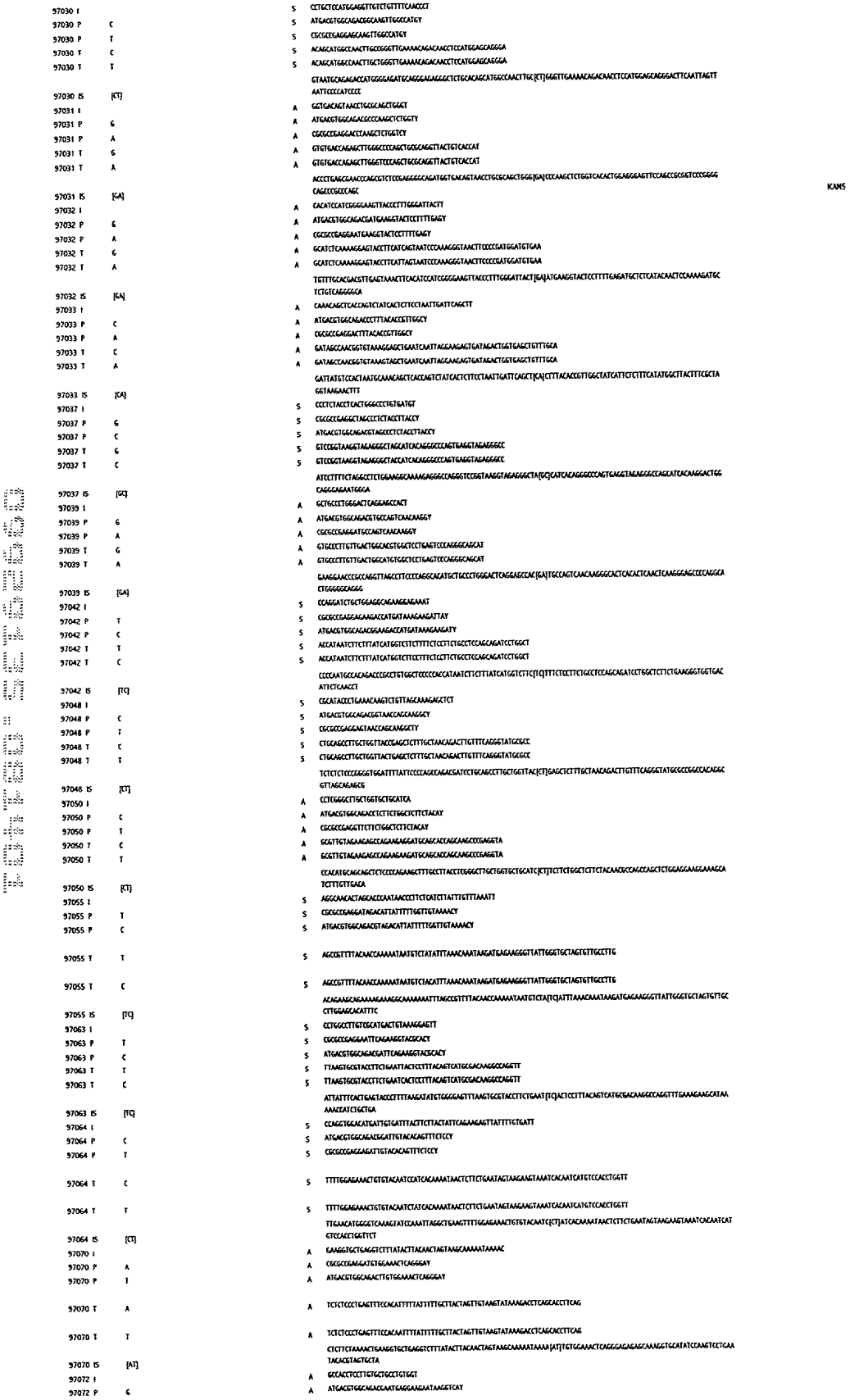
FIGURE 129C

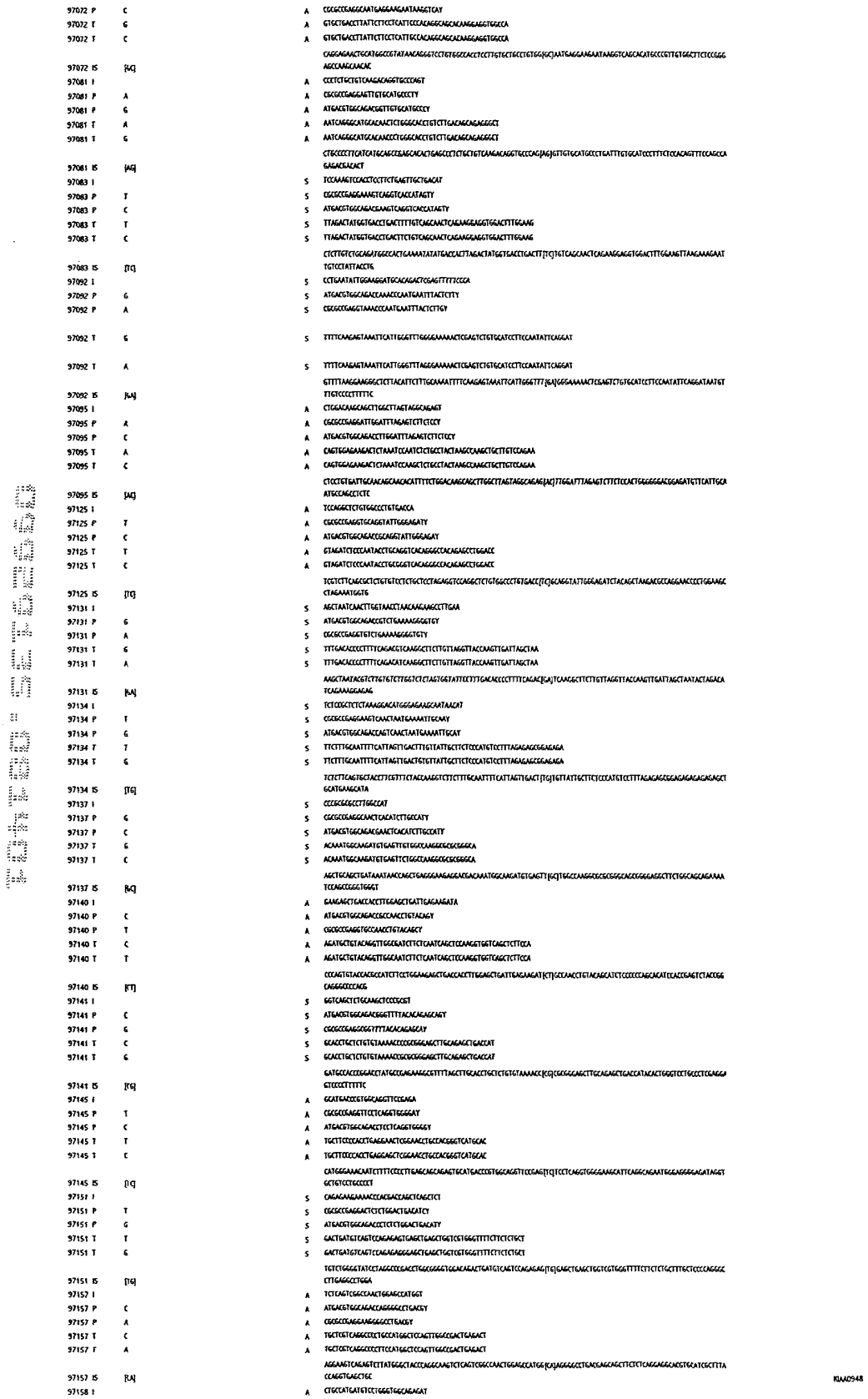
96821 P	T	S	CGCGCCGAGGAGTCTGAGGCTCTGTTAGY		
96821 T	C	S	ATGTCTAACAGAGCCTCAGACCAGGGTCACCTGGGGTTATGGTTGTGTCCAG		
96821 T	T	S	ATGTCTAACAGAGCCTCAGACTAGGGTCACCTGGGGTTATGGTTGTGTCCAG		
96821 IS	[CT]		GGTACTTCAGAAGTGTACTTTTGGGCCTCAAGAGTCGGGATGTCTAACAGAGCCTCAGAC[CT]AGGGTCACCTGGGGTTATGGTTGTGTCAGCCAGTAGGGCCTGGAG GCTGTGGGGCTTC		
96824 I		S	CCTACATTTGGCTCCTTGCAGGGCCTAAAAGATAAATATTTTAAGGATT		
96824 P	C	S	ATGACGTGGCAGACAGCAATCACAAGGCAAY		
96824 P	T	S	CGCGCCGAGGAAGCAATCACAAGGCAAY		
96824 T	C	S	TTGCTTGCCTTGTGATTGCTCATCCTTAAAATATTTATCTTTTAGGCCCTGCAAGGAGCCAAATGTAGGGT		
96824 T	T	S	TTGCTTGCCTTGTGATTGCTTATCCTTAAAATATTTATCTTTTAGGCCCTGCAAGGAGCCAAATGTAGGGT		
96824 IS	[CT]		CACTTGAGCCCAATACAGAGGGAAATGCTTTTAAAATGCTTTGCTTGCCT[GTGATTGCT[CT]ATCCTTAAAATATTTATCTTTTAGGCCCTGCAAGGAGCCAAATGTAG GGTTCATCTGGCA		
96826 I		S	GAGTCCAGCCCAGTCAGGGAGTCAAGCT		
96826 P	T	S	CGCGCCGAGGATGCTTGGAAGGAAGCY		
96826 P	C	S	ATGACGTGGCAGACGTGCTTGGAAGGAAGCY		
96826 T	T	S	GCTGGCTTCCTTCCAAGCATGCTTGACTCCCTGACTGGGCTGGACTCTG		
96826 T	C	S	GCTGGCTTCCTTCCAAGCACGCTTGACTCCCTGACTGGGCTYGGACTCTG		
96826 IS	[TC]		AAATGTAGGGTTCATCTGGCATTCCTTTAGCTCCCTACCTTGCTGGCTTCCTTCCAAGCA[TC]GCTTGACTCCCTGACTGGGCTGGACTCTGGGGATGTGTTTTTATATCA TCCTCTCCAAAC		
96829 I		A	TGCTGTCTAGGAGCCTGGCTCTGACACTA		
96829 P	T	A	CGCGCCGAGGTCCTCCCACCCTGCY		
96829 P	C	A	ATGACGTGGCAGACCCCTCCCACCCTGY		
96829 T	T	A	TGGGCAGGGTGGCAGAGGAGTGTCAGAGCCAGGCTCCTAGACAGCAGC		
96829 T	C	A	TGGGGCAGGGTGGCAGAGGAGTGTCAGAGCCAGGCTCCTAGACAGCAGC		
96829 IS	[TC]		GGGCTCCAGACAGTCCTGCGTGCTCCTGCTGCTGCTGTCTAGGAGCCTGGCTCTCACACT[TC]CCTCCCCACCCTGCCCCATCCCCAGCATCCTCTATGCGGACATCGTGGGC TTCACGCAGCT		
96844 I		S	GCCTCAGTGAACTCCTCAGCCTCCAAGCT		
96844 P	C	S	ATGACGTGGCAGACGTTCCTGGGGTGATCCY		
96844 P	T	S	CGCGCCGAGGATTCCTGGGGTGATCCY		
96844 T	C	S	AAGAGGATCACCCCAGGAACGCTTGCAGGCTGAGGAGTTCACTGAGGCTA		
96844 T	T	S	AAGAGGATCACCCCAGGAATGCTTGCAGGCTGAGGAGTTCACTGAGGCTA		
96844 IS	[CT]		GAAGCACAGAATAACGGGCTCCCAGATTCACAAGCCCCACCAAGAGGATCACCCCAGGAA[CT]GCTTGGAGGCTGAGGAGTTCACTGAGGCTACTGCATCTTGAAGACTCA GGATGAAGACCCA		
96851 I		A	CACCCAACAGTCACTAATCATTAAACACACACACGCAA		
96851 P	T	A	CGCGCCGAGGTACCCTGACACACTGGY		
96851 P	C	A	ATGACGTGGCAGACACCCTGACACACTGGY		
96851 T	T	A	TGTGCCAGTGTGTCAGGGTATGCGTGTGTGTGTTTAATGATTAGTGACTGTTGGGTGCA		
96851 T	C	A	TGTGCCAGTGTGTCAGGGTGTGCGTGTGTGTGTTTAATGATTAGTGACTGTTGGGTGCA		
96851 IS	[TC]		TCCCATATTTCCCCTAAGTTCTGCACCCAACAGTCACTAATCATTAAACACACACACGCA[TC]ACCCTGACACACTGGCACAGGGAGAAGAAATTGAAGGCACTAAGGGA ACAGGAGGAACAT		
96857 I		S	CAGGGGCGGCTCCTCCAGCCA		
96857 P	G	S	ATGACGTGGCAGACCTGCACAGCATGTCTGGY		
96857 P	A	S	CGCGCCGAGATTGCAGAGCATGTCTGGY		
96857 T	G	S	AGCTCCAGACATCCCTCTGCAGGGCTGGAGGAGCCGCCCCTGCC		
96857 T	A	S	AGCTCCAGACATCCTCTGCAAGGCTGCAGGAGCCGCCCCTGCC		
96857 IS	[GA]		CAGATCCCCGTGGTCTTCCGCCTCGCCGGGTCCACCCGGGAGCTCCAGACATCTCTGCA[GA]GGCTGGAGCAGCCGCCCTGCCCGAGGACCACCAGCAAGAAGAGCACA ACCTGCAGCGAC		LOC51295
96859 I		S	TGTCACATCTCCTCTACATGTGGGGCCATT		
96859 P	G	S	CGCGCCGAGGCTTGTTCCTGAGTCTTACCY		
96859 P	C	S	ATGACGTGGCAGACGTTGTTCCTGAGTCTTACCY		
96859 T	G	S	AGAAGGTAAGACTCAGGAACAAGATGGCCCCACATGTGAGAGGAGATGTGACACA		
96859 T	C	S	AGAAGGTAAGACTCAGGAACAACATGGCCCCACATGTGAGAGGAGATGTGACACA		
96859 IS	[GC]		AAAGACAAGGCCAAAGAGACTGCAGATGCCATCACTAAAGAAGGTAAGACTCAGGAACAA[GC]ATGGCCCCACATGTGAGAGGAGATGTGACACACTGGGCTCAAATAA CAGGCTTCCTGGCC		
96866 I		S	TCCTAGCTCCCAGAGTATAGAGAGGAGGGGCT		
96866 P	T	S	CGCGCCGAGGAGGAGAGGTTCATAAGGY		
96866 P	C	S	ATGACGTGGCAGACGGAGAGGTTCATAAGGY		
96866 T	T	S	AGTTCCTTATGAACCCTCTCCTGCCCCTCCTCTCTATACTCTGGGAGCTAGGAGG		
96866 T	C	S	AGTTCCTTATGAACCCTCTCCCGCCCCTCCTCTCTATACTCTGGGAGCTAGGAGG		
96866 IS	[TC]		GCTGGGGGACACCTTGGTCCCTGGAAAGGGCTTCTGCCAAGTTCCTTATGAACCC[CT]C[TC]GCCCCTCCTCTCTATACTCTGGGAGCTAGGAGGGTGCAAACTTGAGAT CAAGCCTTCCTC		
96893 I		A	CATCAGGAGCCCTTCGGGGACAGTGACT		
96893 P	G	A	ATGACGTGGCAGACGTACTGAGCCTGGCCY		
96893 P	A	A	CGCGCCGAGGATACTGAGCCTGGCCY		
96893 T	G	A	TGGGGGCCAGGCTCAGTACGTCACTGTCCCCGAAGGGCTCCTCATGCC		
96893 T	A	A	TGGGGGCCAGGCTCAGTATGTCACTGTCCCCGAAGGGCTCCTCATGCC		
96893 IS	[GA]		AGCCTGGGTCAGGGTCAATCCCTCTGGGATAGGCATGAGGAGCCCTTCGGGGACAGTGAC[GA]TACTGAGCCTGGCCCCCACCGGGAGCAGAGCCATGGCTGTGTCCC GATCTTCCAGTGT		PIK3
96897 I		A	TGCTTATCAAAGACCAAGAGCCTTATACGTGCTGGGT		
96897 P	G	A	ATGACGTGGCAGACGGAACACTTATACAATGGTATAAGT		
96897 P	A	A	CGCGCCGAGGAGAACACTTATACAATGGTATAAGCY		
96897 T	G	A	TCTACCTTATACCATTGTATAAGTGTTCCCCCAGCAGGTATAAGGCTCTTGGTCTTTGATAAGCAAT		
96897 T	A	A	TCTACCTTATACCATTGTATAAGTGTTCTCCCAGCAGCTATAAGGCTCTTGGTCTTTGATAAGCAAT		
96897 IS	[GA]		GGATGCTCAGAAGGGTTCAGGGATTGCTTATCAAAGACCAAGAGCCTTATACGTGCTGGG[GA]GAACACTTATACAATGGTATAAGGTAGATGGGGCTCACTTAGCAGA TCTTGGGCCAGCTC		
96902 I		A	GCAGTGATGAGTCCTAGGAGGGCTGGT		
96902 P	C	A	CGCGCCGAGGCYCTTTGGCGGCTCY		
96902 P	G	A	ATGACGTGGCAGACGTCTTTGGCGGCTCY		
96902 T	C	A	CTCCGAGCCGCCAAGAGCCAGCGCCTCCTAGGACTCATCACTGCCG		
96902 T	G	A	CTCCGAGCCGCCAAGAGCCAGCGCCTCCTAGGACTCATCACTGCCG		
96902 IS	[CG]		TTCAGGGGCTAGAAAAGAGCGTCGATGCCGGCGGCAGTGATGAGTCCTAGGAGGCGCTGG[CG]TCTTTGGCGGCTCGGAGGAGCGGCTGCTGCTGCTGCTGCTGCTG GTGCCCCCTTTGC		
96914 I		S	TGAAGTACACCAGTCTCTGACCCATTTTTAAACACGGCT		
96914 P	C	S	ATGACGTGGCAGACGCTTTTGGCCCACCAGY		
96914 P	T	S	CGCGCCGAGGACTTTTGGCCACCAGTY		
96914 T	C	S	ATATACTGGTGGCCAAAAGCGCCGTGTTTAAAAATGGGTCAGAGACTGGTGTACTTCACA		
96914 T	T	S	ATATACTGGTGGCCAAAAGTGCCGTGTTTAAAAATGGGTCAGAGACTGGTGTACTTCACA		
96914 IS	[CT]		AATAAGCAAGTTTTTTATTTTGAAACTGAAATTAACATTTAATATACTGGTGGCCAAAAG[CT]GCCGTGTTTAAAAATGGGTCAGAGACTGGTGTACTTCACATGACAC TAGTAAAAATGTGA		
96916 I		S	CTTTCTCCAAGTACAGATCTTTACCTTGGATTGTTTCAAGTAT		
96916 P	T	S	CGCGCCGAGGACGAAGAAAACCCAATTCTY		
96916 P	C	S	ATGACGTGGCAGACGCGAAGAAAACCCAATTCY		
96916 T	T	S	CAGAAGAATTGGGTTTTCTTCGTTACTTGAAACAATCCAAGGTAAAGATCTGTACTTGGAGAAAGAT		



96971 T	C		S	GTCTGTGAAGGAAGTATTCTGGAGCTGTAAGTTAAAAATAAGGTGTTTATAGCAAATTATGTAAATAAAGATTGTATATTAGAA	
96971 T	G		S	GTCTGTGAAGGAAGTATTCTGGAGCTGTAAGTTAAAAATAAGGTGTTTATAGCAAATTATGTAAATAAAGATTGTATATTAGAA	
96971 IS	[CG]			CTCACCTTTACAAGGGTGAATGTTGGTAAATAACTTCTGTCTGTGAAGGAAGTATTCTGGA[CG]CTGTAAGTTAAAAATAAGGTGTTTATAGCAAATTATGTAAATAAA GATTGTATATTAGAA	
96980 I			A	AGTACTTACGACACACATTTTCATGGCTGTAACGGATTTTGGCT	
96980 P	G		A	ATGAAGTGGCAGAGCTTGTAAGCTCCATTATCCAY	
96980 P	A		R	CGCGCCGAGGATTGTAAGCTCCATTATCCAGY	
96980 T	G		A	AGTGCTGGATAATGGAGCTTACAACGCCAAAATCGGTTACAGCCATGAAAATGTGTCGTAAGTACTTT	
96980 T	A		A	AGTGCTGGATAATGGAGCTTACAATGCCAAAATCGGTTACAGCCATGAAAATGTGTCGTAAGTACTTT	
96980 IS	[GA]			TTGTCCCTCGGAGAAAGAAAGTACTTACGACACATTTTCATGGCTGTAACCGATTTTGGC[GA]TTGTAAGCTCCATTATCCAGCACTAAGGTCGTCATCTCAACCACCAACC ACACCGCAGCCG	
96985 I			A	CAGACATCCTCAATCTTCACAATTTGGGGTGGACCA	
96985 P	T		A	CGCGCCGAGGTGGACGGTCTACAGGAT	
96985 P	C		A	ATGACGTGGCAGACCGGACGGTCTACAGGY	
96985 T	T		A	TTCATCCTGTAGACCGTCCAGGTCCACCCCAAATTGTGAAGATTGAGGATGTCTGGG	
96985 T	C		A	TTCATCCTGTAGACCGTCCGGGTCCACCCCAAATTGTGAAGATTGAGGATGTCTGGG	
96985 IS	[TC]			CCATGTGAGAGCGACATTTTCTCCCCAGACATCCTCAATCTTCACAATTTGGGGTGGACC[TC]GGACGGTCTACAGGATGAATTCATGGTGTCACTGCAAGGTCACTTTC TTTCCCAGTCTAC	
96986 I			S	ACCGGACAGGGCGCAGCATGCA	
96986 P	G		S	ATGACGTGGCAGACGCCACCAAGTGCY	
96986 P	A		S	CGCGCCGAGGTGCCACCAAGTGCAY	
96986 T	G		S	CTGGTGCACTTGGTGGCGGGATGCTGCGCCCTGTCCGGTTT	
96986 T	A		S	CTGGTGCACTTGGTGGCAGCATGCTGCGCCCTGTCCGGTTT	
96986 IS	[GA]			CAGCGTCGCGCCCTGGAGGTGATGCTGAGCTCCGTGGACGGGCTGGTGCACTTGGTGGC[GA]GCATGCTGCGCCCTGTCCGGTTTGCTCCTGAGCAGGTAGAGGCCTTT GAGCACAGCCAAG		HYPE
96988 I			S	CTGGCGGAGATGGGCTCCGCTGA	
96988 P	G		S	ATGACGTGGCAGACCGGGGCAAGGAGCY	
96988 P	A		S	CGCGCCGAGGTGGGGCAAGGAGCY	
96988 T	G		S	CGGCTGCTCTTGCCCCGCAGCGGAGCCCATCTCCGCCAGGC	
96988 T	A		S	CGGCGCTCCTTGCCCCACAGCGGAGCCCATCTCCGCCAGGC	
96988 IS	[GA]			CGACCGCGGCGGGGCCGGCAAGCGAGCCTCCAGCCCAGCGCTCACGGGCGCTCCTTGCCCC[GA]CAGCGGAGCCCATCTCCGCCAGGCAGCCAGCCCTGCGGCCCAGGTCCA CAAGCAGCCGG	
96989 I			S	GACGTGGGGCCGCAGGGCA	
96989 P	A		S	CGCGCCGAGGTGGCTGCCTGGCY	
96989 P	G		S	ATGACGTGGCAGACCGGCTGCCTGGCY	
96989 T	A		S	CTCCGCCAGGCAGCCAGCCCTGGGGCCCCACGTCCA	
96989 T	G		S	CTCCGCCAGGCAGCCGGCCCTGCGGCCCCACGTCCA	
96989 IS	[AG]			CCAGCCCAGGCGCTCACGGGCGCTCCTTGCCCCGCAGCGGAGCCCATCTCCGCCAGGCAGCC[AG]GCCCTGCGGCCCCACGTCCACACAAGCAGCCGCGAGAAGACCACCCGCGTGC GGACTGTGCTG	
96992 I			A	GAGATGGAAAGGCAAGACACAATTAATACAAAGGCAAA	
96992 P	T		A	CGCGCCGAGGTGGGAACTTCCTTTTCACY	
96992 P	C		A	ATGACGTGGCAGACCGGGAACTTTCCTTTTCAY	
96992 T	T		A	ATATGTGAAAAGGAAAGTTCCCATTGCCTTTGTATTAATTGTGTCTTGCCTTTCCATCTCAT	
96992 T	C		A	ATATGTGAAAAGGAAAGTTCCCGTTGCCTTTGTATTAATTGTGTCTTGCCTTTCCATCTCAT	
96992 IS	[TC]			TTGTACCCCTCTACAAAGAAAATGAGATGGAAAGCAAGACACAATTAATACAAAGGCAA[TC]GGGAACTTTCCTTTTCACATATTCTTAGCTTTTCAGCTGCAGGGGT GAGGGCTGTATTTA	
97007 I			A	CGACCAGGGGAGCTGACCACACTCACC	
97007 P	A		A	CGCGCCGAGGAGCCCTAGACCCAGAY	
97007 P	T		A	ATGACGTGGCAGACTGCCCTAGACCGAGAY	
97007 T	A		A	CCTTTCTCGGTCTAGGGCTGTGAGTGTGGTCAGCTCCCCTGGTCGGA	
97007 T	T		A	CCTTTCTCGGTCTAGGGCAGTGAGTGTGGTCAGCTCCCCTGGTCGGA	
97007 IS	[AT]			TTCCCCAGAGAAAGCTCAACTTTTGTCATTTCTCCGAGCAGGGGAGCTGACCACACTCAC[AT]GCCCTAGACCGAGAAAGGAAGGATGTGTTCAACCTTGTTGCCAAGGC GACGGATGCAGGT	
97010 I			A	GGACATATCTGTTTCCCCTGTACTCCCAGGGT	
97010 P	G		A	ATGACGTGGCAGAGTCAAGATTCCTGTCCCTY	
97010 P	A		A	CGCGCCGAGGATCAAGATTCCTGTCCCTY	
97010 T	G		A	ATGGAGGGCACAGGAATCTTGACCCCTGGGAGTACAGGGGGAAACAGATATGTCCCT	
97010 T	A		A	ATGGAGGGCACAGGAATCTTGATCCCTGGGAGTACAGGGGGAAACAGATATGTCCCT	
97010 IS	[GA]			GCTAGCCCAAAGGCAGTCACTGGGGCAGGGACATATCTGTTTCCCCTGTACTCCCAGGG[GA]TCAAGATTCCTGTCCCTCCATTCACAATCCCCCTACCCCACCGCAGGTA TCAGCGACTGA	
97012 I			A	ATGAGCACTTCCCACCATTGAGGCATGTGTTT	
97012 P	C		A	CGCGCCGAGGCTGGCTGCAGTAGTCAY	
97012 P	G		A	ATGACGTGGCAGAGTGGCTGCAGTAGTCAY	
97012 T	C		A	ACAGTGACTACTGCAGCCAGAACACATGCCTCAATGGTGGGAAGTGCTCATGG	
97012 T	G		A	ACAGTGACTACTGCAGCCACAACACATGCCTCAATGGTGGGAAGTGCTCATGG	
97012 IS	[CG]			ACCCCAGCCCTCACCTGCCCCGTGGGTCCATGAGCACTTCCCACATTGAGGCATGTGTT[CG]TGGCTGCAGTAGTCACTGTGGAGGCAGCACTGGGTGAGGGCTTGTGTC TCCAGCAAGCCT	
97016 I			S	TCTAACATGCAATGGGGCCAAGTCTCCCTATGAT	
97016 P	G		S	ATGACGTGGCAGACCCAAAGAAGGTACTTCTACAAY	
97016 P	T		S	CGCGCCGAGGCAAAGAAGGTACTTCTACAAGY	
97016 T	G		S	GTGACTTGTAGAAGTACCTTCTTTGGTCATAGGGAGACTTGGCCCCATTGCATGTTAGACT	
97016 T	T		S	GTGACTTGTAGAAGTACCTTCTTTGTTCATAGGGAGACTTGGCCCCATTGCATGTTAGACT	
97016 IS	[GT]			TTGTGCATCCAGGGACCTTAGCAAGAGATTACGAGTGACTTGTAGAAGTACCTTCTTTG[GT]TCATAGGGAGACTTGGCCCCATTGCATGTTAGACTCATTCTGACCAC ACAGCTCCTGGAT	
97021 I			A	GTCCAACCCCCACCCTCCCAGGAA	
97021 P	C		A	ATGACGTGGCAGACCCAAGCACATCCTGY	
97021 P	T		A	CGCGCCGAGGTCCAAGCACATCCTGTY	
97021 T	C		A	CCATACAGGATGTGCTTGGGTCCTGGGAGGGTGGGGGTTGGACCT	
97021 T	T		A	CCATACAGGATGTGCTTGGATCCTGGGAGGGTGGGGGTTGGACCT	
97021 IS	[CT]			GGATCCCAGCATATCCCCACAGGTCCACGTCCCCCCAGGTCCAACCCCCACCCTCCCAGGA[CT]CCAAGCACATCCTGTATGGACATACGTCCACTACCTAGTGTTTGGACCC TCTCTTTTGAG	
97023 I			A	GGGAATTTGGAATAGGAGAGAGTGGGCAGGGAA	
97023 P	C		A	ATGACGTGGCAGACAAGGAAGAGGAAGAGAAGY	
97023 P	T		A	CGCGCCGAGGTAAGGAAGAGGAAGAAGAAGGT	
97023 T	C		A	TTTTCCTTCTTCTTGCTCTTCCTTGTCCCTCCCACTCTCTCCTATTCCAAATTCCCTT	
97023 T	T		A	TTTTCCTTCTTCTTGCTCTTCCTTATCCCTCCCACTCTCTCCTATTCCAAATTCCCTT	
97023 IS	[CT]			AGGGAAAAATGGAGAAGTAGAAGTAGAAGGGAATTTGGAATAGGAGAGAGTGGGCAGGGA[CT]AAGGAACAGGAAGAAGAAGCAGAAAAAGAAATGGGAGAGGGAAA GAGAAAAGGGAGGTGGGG	
97029 I			A	CGCCCTCAAATGGGAACGCTGGCCA	
97029 P	T		A	CGCGCCGAGGTGGGACTAAAGCATAGACCY	
97029 P	C		A	ATGACGTGGCAGACGGGACTAAAGCATAGACY	
97029 T	T		A	TGGTGGTCTATGCTTTAGTCCCAGGCCAGGGTTCCCATTTGAGGGCGAG	
97029 T	C		A	TGGTGGTCTATGCTTTAGTCCCGGGCCAGGGTTCCCATTTGAGGGCGAG	
97029 IS	[TC]			TACGTAACAGCAAGACAGCGTCACCTCACCTGTTCTCGCCCTCAAATGGGAACGCTGGCC[TC]GGGACTAAAGCATAGACCACCAGGCTGAGTATCCTGACCTGAGTCATC CCCAGGGATCAG	

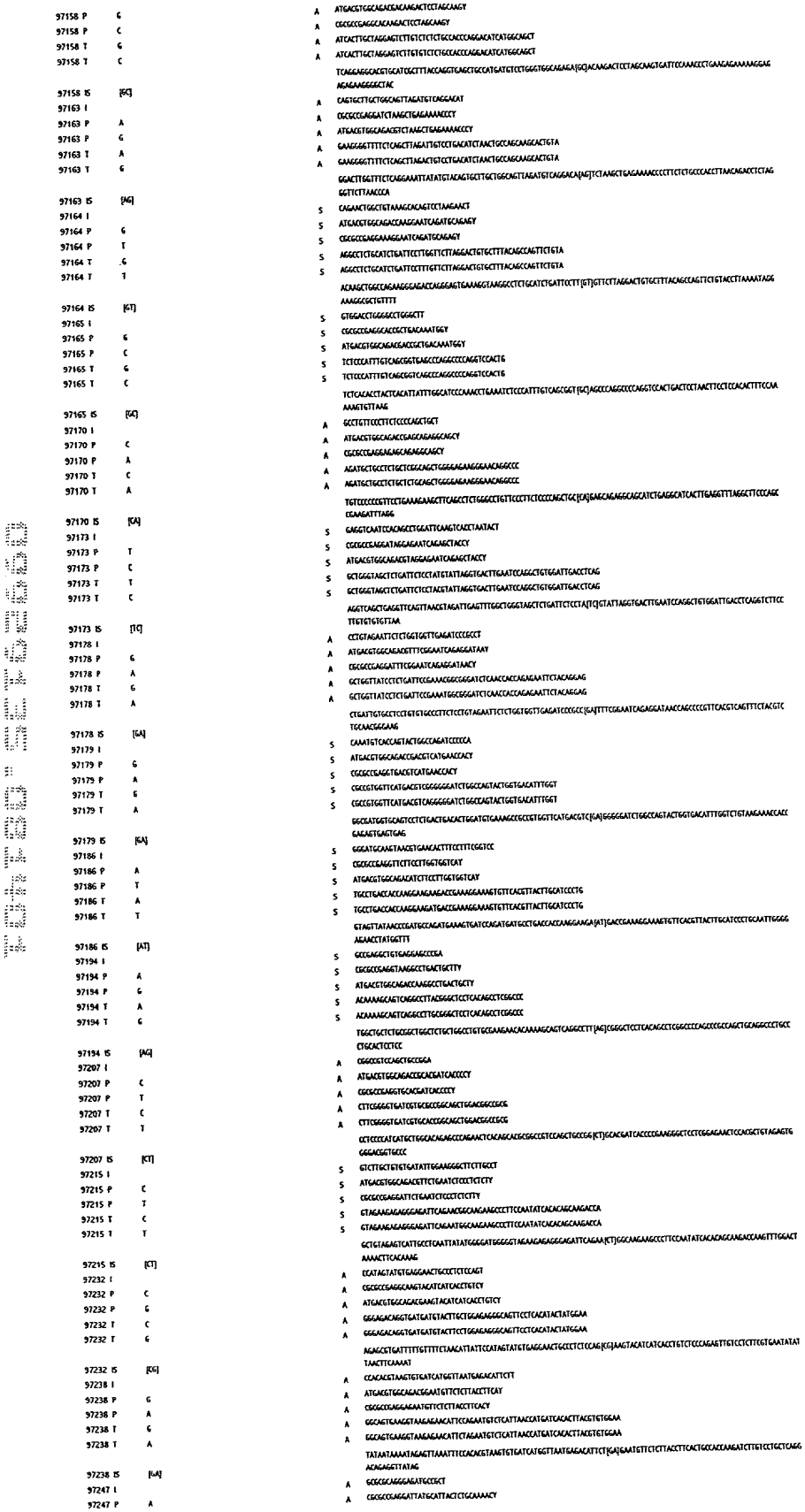
FIGURE 129C




97072 P C A CCGCCCAGGCAATGAGGAAGAATAAGGTCAT
97072 I G A GTGCTGACCTTATTCTTCCTCATTCCCACAGGCAGCACAAGGAGGTGGCCA
97072 T C A GTGCTGACCTTATTCTTCCTCATTGCCACAGGCAGCACAAGGAGGTGGCCA
CAGCAGAACTGCATGGCCGTATAACAGGGTCCTGTGGCCACCTCCTTGTGCTGCCTGTGGGGCAATGAGGAAGAATAAGGTCAGCACATGCCCGTTGTGGCTTCTCCCGGG
97072 IS [GC] AGCCAAGCAACAC
97081 I A CCCTCTGCTGTCAAGACAGGTGCCCAGT
97081 P A A CGCGCCGAGGAGTTGTGCATGCCCTY
97081 P G A ATGACGTGGCAGACGGTTGTGCATGCCCY
97081 T A A AATCAGGGCATGCACAACTCTGGGCACCTGTCTTGACAGCAGAGGGCT
97081 T G A AATCAGGGCATGCACAACCCTGGGCACCTGTCTTGACAGCAGAGGGCT
CTGCCCCTTCATCATGCAGCCCGAGCACACTGAGCCCTCTGCTGTCAAGACAGGTGCCCAGJAGJGTTGTGCATGCCCTGATTTGTGCATCCCTTTCTCCACAGTTTCCAGCCA
97081 IS [AG] GAGACGACACT
97083 I S TCCAAAGTCCACCTCCTTCTGAGTTGCTGACAT
97083 P T S CGCGCCGAGGAAAGTCAGGTCACCATAGTY
97083 P C S ATGACGTGGCAGACGAAGTCAGGTCACCATAGTY
97083 T T S TTAGACTATGGTGACCTGACTTTGTCAGCAACTCAGAAGGAGGTGGACTTTGGAAG
97083 T C S TTAGACTATGGTGACCTGACTCTGTCAGCAACTCAGAAGGAGGTGGACTTTGGAAG
CTCTTGTCTGCAGATGGCCACTGAAAATATATGACCACTTAGACTATGGTGACCTGACTTJTCJTGTCAGCAACTCAGAAGGAGGTGGACTTTGGAAGTTAAGAAAGAAT
97083 IS [TC] TGTCCTATTACCTG
97092 I S CCTGAATATTGGAAGGATGCACAGACTCGAGTTTTTCCCA
97092 P G S ATGACGTGGCAGACAAACCAATGAATTTACTCTTY
97092 P A S CGCGCCGAGGTAAACCCAATGAATTTACTCTTGY
97092 T G S TTTTCAAGAGTAAATTCATTGGGTTTGGGGAAAAACTCGAGTCTGTGCATCCTTCCAATATTCAGGAT
97092 T A S TTTTCAAGAGTAAATTCATTGGGTTTAGGGAAAAACTCGAGTCTGTGCATCCTTCCAATATTCAGGAT
GTTTTAAGGAAGGGCTCTTACATTCTTTGCAAAATTTTCAAGAGTAAATTCATTGGGTTTJGAJGGGAAAAACTCGAGTCTGTGCATCCTTCCAATATTCAGGATAATGT
97092 IS [AA] TTGTCCCCTTTTTC
97095 I A CTGGACAAGCAGCTTGGCTTAGTAGGCAGAGT
97095 P A A CGCGCCGAGGATTGGATTTAGAGTCTTCTCCY
97095 P C A ATGACGTGGCAGACCTTGGATTTAGAGTCTTCTCCY
97095 T A A CAGTGGAGAAGACTCTAAATCCAATCTCTGCCTACTAAGCCAAGCTGCTTGTCCAGAA
97095 T C A CAGTGGAGAAGACTCTAAATCCAAGCTCTGCCTACTAAGCCAAGCTGCTTGTCCAGAA
CTCCTGTGATTGCAACAGCAACACATTTTCTGGACAAGCAGCTTGGCTTAGTAGGCAGAGJAGJTGGAATTTAGAGTCTTCTCCACTGGGGGGACGGAGATGTTCATTGCA
97095 IS [AC] ATGCCAGCCTCTC
97125 I A TCCAGGCTCTGTGGCCCTGTGACCA
97125 P T A CGCGCCGAGGTGCAGGTATTGGGAGATY
97125 P C A ATGACGTGGCAGACCGCAGGTATTGGGAGAY
97125 T T A GTAGATCTCCCAATACCTGCAGGTCACAGGGCCACAGAGCCTGGACC
97125 T C A GTAGATCTCCCAATACCTGCGGGTCACAGGGCCACAGAGCCTGGACC
TCGTCTTCAGCGCTCTGTGTCCTCTGCTCCTAGAGGTCCAGGCTCTGTGGCCCTGTGACCJTCJGCAGGTATTGGGAGATCTACAGCTAAGACGCCAGGAACCCCTGGAAGC
97125 IS [TC] CTAGAAATGGTG
97131 I S AGCTAATCAACTTGGTAACCTAACAAGAAGCCTTGAA
97131 P G S ATGACGTGGCAGACCGTCTGAAAAGGGGTGY
97131 P A S CGCGCCGAGGTGTCTGAAAAGGGGTGTY
97131 T G S TTTGACACCCTTTTCAGACGTCAAGGCTTCTTGTTAGGTTACCAAGTTGATTAGCTAA
97131 T A S TTTGACACCCTTTTCAGACGTCAAGGCTTCTTGTTAGGTTACCAAGTTGATTAGCTAA
AAGCTAATACGTCTTGTGTCTTGGTCTCTAGTGGTATTTCTTJGACACCCCTTTTCAGACJCAJTCAAGCTTCTTGTTAGGTTACCAAGTTGATTAGCTAATACTAGACA
97131 IS [AA] TCAGAAAGGAGAG
97134 I S TCTCCGCTCTCTAAAGGACATGGGAGAAGCAATAACAT
97134 P T S CGCGCCGAGGAAGTCAACTAATGAAAATTGCMY
97134 P G S ATGACGTGGCAGACCAGTCAACTAATGAAAATTGCAY
97134 T T S TTCTTTGCAATTTTCATTAGTTGACTTTGTTATTGCTTCTCCCATGTCTCTTTAGAGAGCGGAGAGA
97134 T G S TTCTTTGCAATTTTCATTAGTTGACTGTGTTATTGCTTCTCCCATGTCTCTTTAGAGAGCGGAGAGA
TCTCTTCAGTGCTACCTTCGTTTCTACCAAGGTCTTCTTTGCAATTTTCATTAGTTGACTJTGJTGTTATTGCTTCTCCCATGTCCTTTAGAGAGCGGAGAGACAGAGACT
97134 IS [TG] GCATGAAGCATA
97137 I S CCCGCGCGCCTTGGCCAT
97137 P G S CGCGCCGAGGCAACTCACATCTTGCCATY
97137 P C S ATGACGTGGCAGACGAACTCACATCTTGCCATY
97137 T G S ACAAATGGCAAGATGTGAGTTGTGGCCAAGGCGCGCGGGCA
97137 T C S ACAAATGGCAAGATGTGAGTTCTGGCCAAGGCGCGCGGGCA
AGCTGCAGCTGATAAATAACCAGCTGAGGGAAGAGGAGCACAAATGGCAAGATGTGAGTTJGCJTGGCCAAGGCGCGCGGGCAGCGGGGAGGCTTCTGGCAGCAGAAAA
97137 IS [GC] TCCAGCCGGGTGGGT
97140 I A GAAGAGCTGACCACCTTGGAGCTGATTGAGAAGATA
97140 P C A ATGACGTGGCAGACCGCCAACCTGTACAGY
97140 P T A CGCGCCGAGGTGCCAACCTGTACAGCY
97140 T C A AGATGCTGTACAGGTTGGGAATCTTCTCAATCAGCTCCAAGGTGGTCAGCTCTTCCA
97140 T T A AGATGCTGTACAGGTTGGCAATCTTCTCAATCAGCTCCAAGGTGGTCAGCTCTTCCA
CCCAGTGTACCACGCCATCTTCCTGGAAGAGCTGACCACCTTGGAGCTGATTGAGAAGATJCTJGCCAACCTGTACAGCATCTCCCCCCAGCACATCCACCGAGTCTACTGG
97140 IS [CT] CAGGGCCCAG
97141 I S GGTCAGCTCTGCAAGCTCCCGCGT
97141 P C S ATGACGTGGCAGACGGGTTTTACACAGAGCAY
97141 P G S CGCGCCGAGGCGGGTTTTACACAGAGCAY
97141 T C S GCACCTGCTCTGTGTAAAACCCGCGCGGAGCTTGCAGAGCTGACCAT
97141 T G S GCACCTGCTCTGTGTAAAACCGCGCGGGAGCTTGCAGAGCTGACCAT
GATGCCACCCGACCTATGCCGAGAAAGCGTTTTAGCTTGCACCTGCTCTGTGTAAAACCJCGJCGCGGGAGCTTGCAGAGCTGACCATACACTGGGTCCTGCCCTCGAGGA
97141 IS [CG] CTCCCCTTTTTC
97145 I A GCATGACCCGTGGCAGGTTCCGAGA
97145 P T A CGCGCCGAGGTTCCTCAGGTGGGGAY
97145 P C A ATGACGTGGCAGACCTCCTCAGGTGGGGY
97145 T T A TGCTTCCCCACCTGAGGAACTCGGAACCTGCCACGGGTCATGCAC
97145 T C A TGCTTCCCCACCTGAGGAGCTCGGAACCTGCCACGGGTCATGCAC
CATGGGAAACAATCTTTCCCCTTGAGCAGCAGAGTGCATGACCCGTGGCAGGTTCCGAGJTGJTCCTCAGGTGGGGAAGCATTCAGGCAGAATGGAAGGGGAGATAGGT
97145 IS [TC] GCTGTCCTCCCCCT
97151 I S CAGAGAAGAAAACCCACGACCAGCTCAGCTCT
97151 P T S CGCGCCGAGGACTCTCTGGACTGACATCT
97151 P G S ATGACGTGGCAGACCCTCTCTGGACTGACATY
97151 T T S GACTGATGTCAGTCCAGAGAGTGAGCTGAGCTGGTCGTGGGTTTTCTTCTCTGCT
97151 T G S GACTGATGTCAGTCCAGAGAGGGAGCTGAGCTGGTCGTGGGTTTTCTTCTCTGCT
TGTCTGGGGTATCCTAGGCCCGACCTGGCGGGGTGGACAGACTGATGTCAGTCCAGAGAGJTGJGAGCTGAGCTGGTCGTGGGTTTTCTTCTCTGCTTTGCTCCCCAGGGC
97151 IS [TG] CTTGAGGCCTGGA
97157 I A TCTCAGTCGGCCAACTGGAGCCATGGT
97157 P C A ATGACGTGGCAGACCAGGGGCCTGACGY
97157 P A A CGGCCCAGGAAGGGGCCTGACGY
97157 T C A TGCTCGTCAGGCCCTCCCATGGCTCCAGTTGGCCGACTGAGACT
97157 T A A TGCTCGTCAGGCCCCTCCCATGGCTCCAGTTGGCCGACTGAGACT
AGGAAGTCAGAGTCTTATGGGCTACCCAGGCAAGTCTCAGTCGGCCAACTGGAGCCATGGJCJAJAGGGGCCTGACGAGCAGCTCTCTCAGGAGGCACGTGCATCGCTTA
97157 IS [CA] CCAGGTGAGCTGC
97158 I A CTGCCATGATGTCCTGGGTGGCAGACAT

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FIGURE 129C


97158 P G
97158 P C
97158 T G
97158 T C
97158 IS [GC]
97163 I
97163 P A
97163 P G
97163 T A
97163 T G
97163 IS [AG]
97164 I
97164 P G
97164 P T
97164 T G
97164 T T
97164 IS [GT]
97165 I
97165 P G
97165 P C
97165 T G
97165 T C
97165 IS [GC]
97170 I
97170 P C
97170 P A
97170 T C
97170 T A
97170 IS [CA]
97173 I
97173 P T
97173 P C
97173 T T
97173 T C
97173 IS [TC]
97178 I
97178 P G
97178 P A
97178 T G
97178 T A
97178 IS [GA]
97179 I
97179 P G
97179 P A
97179 T G
97179 T A
97179 IS [GA]
97186 I
97186 P A
97186 P T
97186 T A
97186 T T
97186 IS [AT]
97194 I
97194 P A
97194 P G
97194 T A
97194 T G
97194 IS [AG]
97207 I
97207 P C
97207 P T
97207 T C
97207 T T
97207 IS [CT]
97215 I
97215 P C
97215 P T
97215 T C
97215 T T
97215 IS [CT]
97232 I
97232 P C
97232 P G
97232 T C
97232 T G
97232 IS [GG]
97238 I
97238 P G
97238 P A
97238 T G
97238 T A
97238 IS [GA]
97247 I
97247 P A
A ATGACGTGGCAGACGACAAGACTCCTAGCAAGY
A CGCGCCGAGGCACAAGACTCCTAGCAAGY
A ATCACTTGCTAGGAGTCTTGTCTCTCTGCCACCCAGGACATCATGGCAGCT
A ATCACTTGCTAGGAGTCTTGTGTCTCTGCCACCCAGGACATCATGGCAGCT
TCAGGAGGCACGTGCATCGCTTACCAGGTGAGCTGCCATGATGTCCTGGGTGGCAGAGA[GG]ACAAGACTCCTAGCAAGTGATTCCAAACCCTGAACAGAAAAAGGAG
AGAGAGGGCCTAC
A CAGTGCTTGCTGGCAGTTAGATGTCAGGACAT
A CGCGCCGAGGATCTAAGCTGAGAAAACCCT
A ATGACGTGGCAGACGTCTAAGCTGAGAAAACCCY
A GAAGGGGTTTTCTCAGCTTAGATTGTCCTGACATCTAACTGCCAGCAAGCACTGTA
A GAAGGGGTTTTCTCAGCTTAGACTGTCCTGACATCTAACTGCCAGCAAGCACTGTA
GGACTTGGTTTCTCAGGAAATTATATGTACAGTGCTTGCTGGCAGTTAGATGTCAGGACA[AG]TCTAAGCTGAGAAAACCCCTTCTCTGCCCACCTTAACAGACCTCTAG
GGTTCTTAACCCA
S CAGAACTGGCTGTAAAGCACAGTCCTAAGAACT
S ATGACGTGGCAGACCAAGGAATCAGATGCAGAGY
S CGCGCCGAGGAAAGGAATCAGATGCAGAGY
S AGGCCTCTGCATCTGATTCCTTGGTTCTTAGGACTGTGCTTTACAGCCAGTTCTGTA
S AGGCCTCTGCATCTGATTCCTTGTTCTTAGGACTGTGCTTTACAGCCAGTTCTGTA
ACAAGCTGGCCAGAAGGGAGACCAGGAGTGAAAGGTAAGGCCTCTGCATCTGATTCCTT[GT]GTTCTTAGGACTGTGCTTTACAGCCAGTTCTGTACCTTAAAATAGG
AAAGGCGCTGTTTT
S GTGGACCTGGGGCCTGGGCTT
S CGCGCCGAGGCACCGCTGACAAATGGY
S ATGACGTGGCAGACGACCGCTGACAAATGGY
S TCTCCCATTTGTCAGCGGTGAGCCCAGGCCCCAGGTCCACTG
S TCTCCCATTTGTCAGCGGTCAGCCCAGGCCCCAGGTCCACTG
TCTCACACCTACTCACATTATTTGGCATCCCAAACCTGAAATCTCCCATTTGTCAGCGGT[GC]AGCCCAGGCCCCAGGTCCACTGACTCCTAACTTCCTCCACACTTTCCAA
AAAGTGTTAAG
A GCCTGTTCCCTTCTCCCCAGCTGCT
A ATGACGTGGCAGACCGAGCAGAAGGCAGCY
A CGCGCCGAGGAGAGCAGAGGCAGCY
A AGATGCTGCCTCTGCTCGGCAGCTGGGGAGAAGGGAACAGGCCC
A AGATGCTGCCTCTGCTCGCAGCTGGGGAGAAGGGAACAGGCCC
TGTCCCCCCCTTCCTGAAACAAGCTTCAGCCTCTGGGCCTGTTCCCTTCTCCCCAGCTGC[CA]GAGCAGAGGCAGCATCTGAGGCATCACTTGAGGTTAGGCTTCCCAGC
CGAAGATTTAGG
S GAGGTCAATCCACAGCCTGGATTCAAGTCACCTAATACT
S CGCGCCGAGGATAGGAGAATCAGAGCTACCY
S ATGACGTGGCAGACGTAGGAGAATCAGAGCTACCY
S GCTGGGTAGCTCTGATTCTCCTATGTATTAGGTGACTTGAATCCAGGCTGTGGATTGACCTCAG
S GCTGGGTAGCTCTGATTCTCCTACGTATTAGGTGACTTGAATCCAGGCTGTGGATTGACCTCAG
AGGTCAGCTGAGGTTCAGTTAAGCTAGATTGAGTTTGGCTGGGTAGCTCTGATTCTCCTA[TC]GTATTAGGTGACTTGAATCCAGGCTGTGGATTGACCTCAGGTCTTCC
TTGTGTGTGTTAA
A CCTGTAGAATTCTCTGGTGGTTGAGATCCCGCCT
A ATGACGTGGCAGACGTTTCGGAATCAGAGGATAAY
A CGCGCCGAGGATTTCGGAATCAGAGGATAACY
A GCTGGTTATCCTCTGATTCCGAAATGGCGGGATCTCAACCACCAGAGAATTCTACAGGAG
A GCTGGTTATCCTCTGATTCCGAAATGGCGGGATCTCAACCACCAGAGAATTCTACAGGAG
CTGATTGTGCCTCCTGTGTGCCCTTCTCCTGTAGAATTCTCTGGTGGTTGAGATCCCGCC[GA]TTTCGGAATCAGAGGATAACCAGCCCCGTTCACGTCAGTTTCTACGTC
TGCAACGGCAAG
S CAAATGTCACCAGTACTGGCCAGATCCCCCA
S ATGACGTGGCAGACCGACGTCATGAACCACY
S CGCGCCGAGGTGACGTCATGAACCACY
S CGCCGTGGTTCATGACGTCGGGGGGATCTGGCCAGTACTGGTGACATTTGGT
S CGCCGTGGTTCATGACGTCAGGGGGGATCTGGCCAGTACTGGTGACATTTGGT
GGCGATGGTGCAGTCCTCTGACTGACACTGGATGTGAAAGCCGCCGTGGTTCATGACGTC[GA]GGGGGATCTGGCCAGTACTGGTGACATTTGGTCTGTAAGAAACCACC
GACAGTGAGTGAG
S GGGATGCAAGTAACGTGAACACTTTCCTTTCGGTCC
S CGCGCCGAGGTTCTTCCTTGGTGGTCAY
S ATGACGTGGCAGACATCTTCCTTGGTGGTCAY
S TGCCTGACCACCAAGGAAGAAGACCGAAAGGAAAGTGTTCACGTTACTTGCATCCCTG
S TGCCTGACCACCAAGGAAGATGACCGAAAGGAAAGTGTTCACGTTACTTGCATCCCTG
GTAGTTATAACCCGATGCCAGATGAAAGTGATCCAGATGATGCCTGACCACCAAGGAAGA[AT]GACCGAAAGGAAAGTGTTCACGTTACTTGCATCCCTGCAATTGGGG
AGAACCTATGGTTT
S GCCGAGGCTGTGAGGAGCCCGA
S CGCGCCGAGGTAAGCCTGACTGCTTY
S ATGACGTGGCAGACCAAGCCTGACTGCTY
S ACAAAGCAGTCAGGCCTTACGGGCTCCTCACAGCCTCGGCCC
S ACAAAAGCAGTCAGGCCTTGCGGGCTCCTCACAGCCTCGGCCC
TGGCTGCTCTGCGGCTGGCTCTGCTGGCCTGTGCGAAGAACACAAAAGCAGTCAGGCCTT[AG]CGGGCTCCTCACAGCCTCGGCCCCAGCCCGCCAGCTGCAGGCCTGCC
CTGCACTCCTCC
A CGGCCCTCCAGCTGCCGGA
A ATGACGTGGCAGACCGCACGATCACCCCY
A CGCGCCGAGGTGCACGATCACCCCY
A CTTCGGGGTGATCGTGCGCCGGCAGCTGCACGGCCGCG
A CTTCGGGGTGATCGTGCGCCGGCAGCTGCACGGCCGCG
CCTCCCCATCATGCTGGCACAGAGCCCAGAACTCACAGCACGCGGCCGTCCAGCTGCCGG[CT]GCACGATCACCCCGAAGGGCTCCTCGGAGAACTCCACGCTGTAGAGTG
GGGACGCTGCCC
S GTCTTGCTGTGTGATATTGGAAGGGCTTCTTGCCT
S ATGACGTGGCAGACGTTCTGAATCTCCCTCTCTY
S CGCGCCGAGGATTCTGAATCTCCCTCTCTTY
S GTAGAAGAGAGGCAGATTCAGAACGGCAACAAGCCCTTCCAATATCACACAGCAAGACCA
S GTAGAAGAGAGGCAGATTCAGAATGGCAACAAGCCCTTCCAATATCACACAGCAAGACCA
GCTGTAGAGTCATTGCCTCAATTATATGGGGATGGGGGTAGAAGAGAGGCAGATTCAGAA[CT]GGCAAGAAGCCCTTCCAATATCACACAGCAAGACCAAGTTTGGACT
AAAACTTCACAAG
A CCATAGTATGTGAGGAACTGCCCTCTCCAGT
A CGCGCCGAGGCAAGTACATCATCACCTGTCY
A ATGACGTGGCAGACGAAGTACATCATCACCTGTCY
A GGAGACAGGTGATGATGTACTTGCTGGAGAGGGCAGTTCCTCACATACTATGGAA
A GGAGACAGGTGATGATGTACTTCCTGGAGAGGGCAGTTCCTCACATACTATGGAA
AGAGCGTGATTTTTGTTTTCTAACATTATTCCATAGTATGTGAGGAACTGCCCTCTCCAG[CG]AAGTACATCATCACCTGTCTCCCAGAGTTGTCCTCTTCGTGAATATAT
TAACTTCAAAAT
A CCACACGTAAGTGTGATCATGGTTAATGAGACATTCTT
A ATGACGTGGCAGACGGAATGTTCTCTTACCTTCAY
A CGGCCCGAGGAGAATGTTCTCTTACCTTCACY
A GGCAGTGAAGGTAAGAGAACATTCAGAATGTCTCATTAACCATGATCACACTTACGTGTGGAA
A GGCAGTGAAGGTAAGAGAACATTCTAGAATGTCTCATTAACCATGATCACACTTACGTGTGGAA
TATAATAAAATAGAGTTAAATTTCCACACGTAAGTGTGATCATGGTTAATGAGACATTCT[GA]GAATGTTCTCTTACCTTCACTGCCACCAAGATCTTGTCCTGCTCAGG
ACAGAGTTATAG
A GCGCGCAGGGAGATGCCGCT
A CGCGCCGAGGATTATGCATTACTCTGCAAAACY

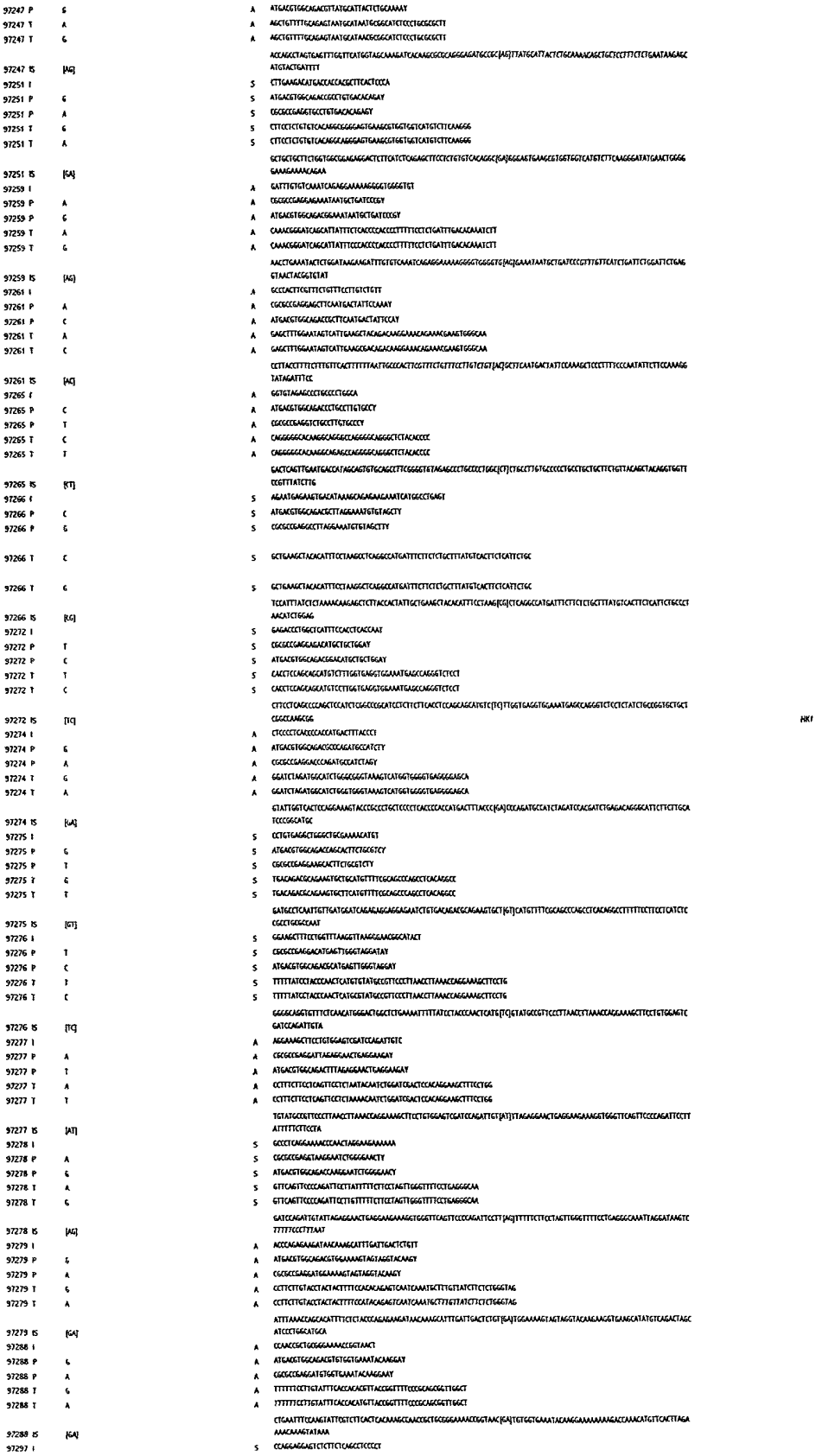


FIGURE 129C

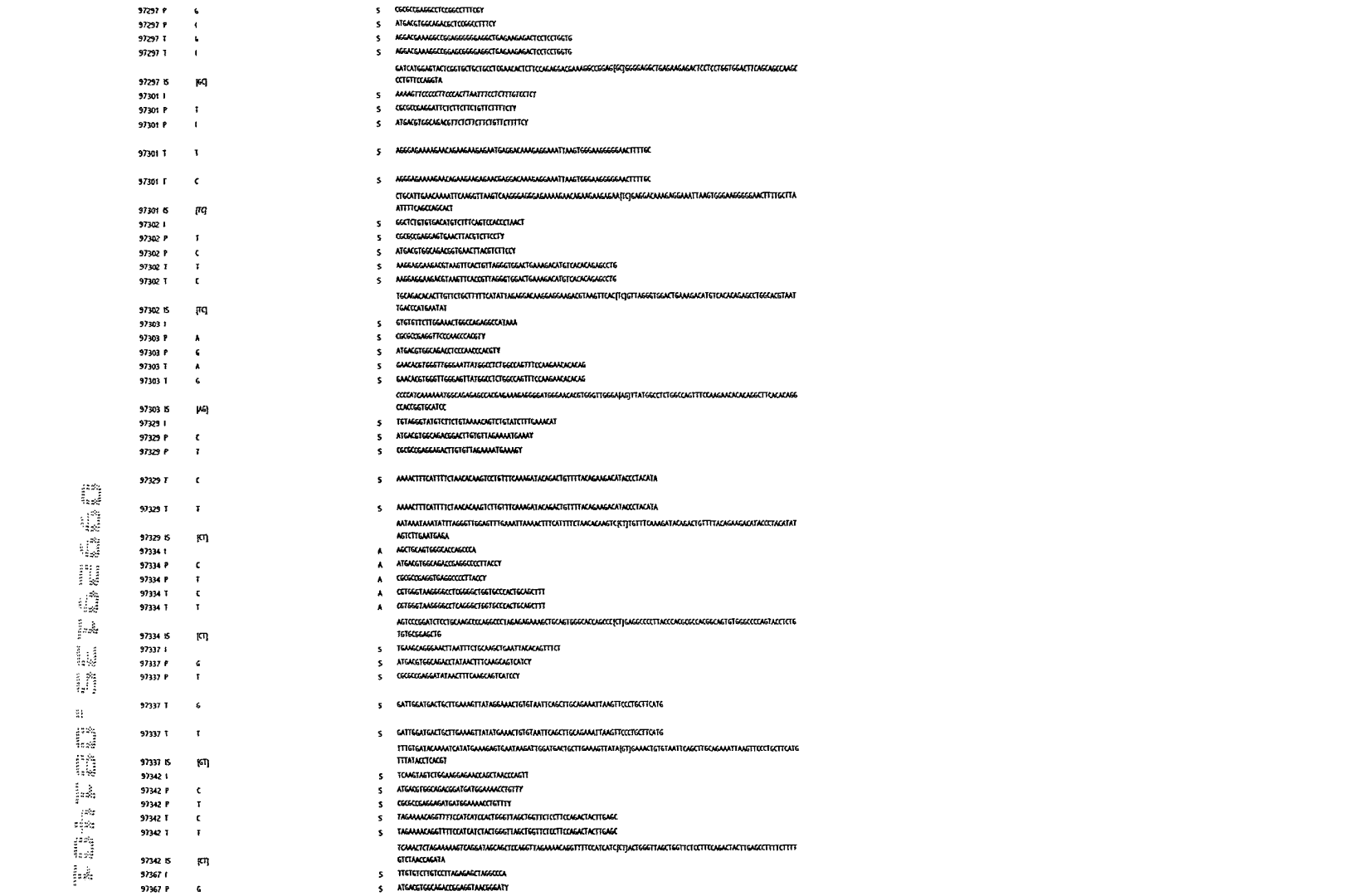
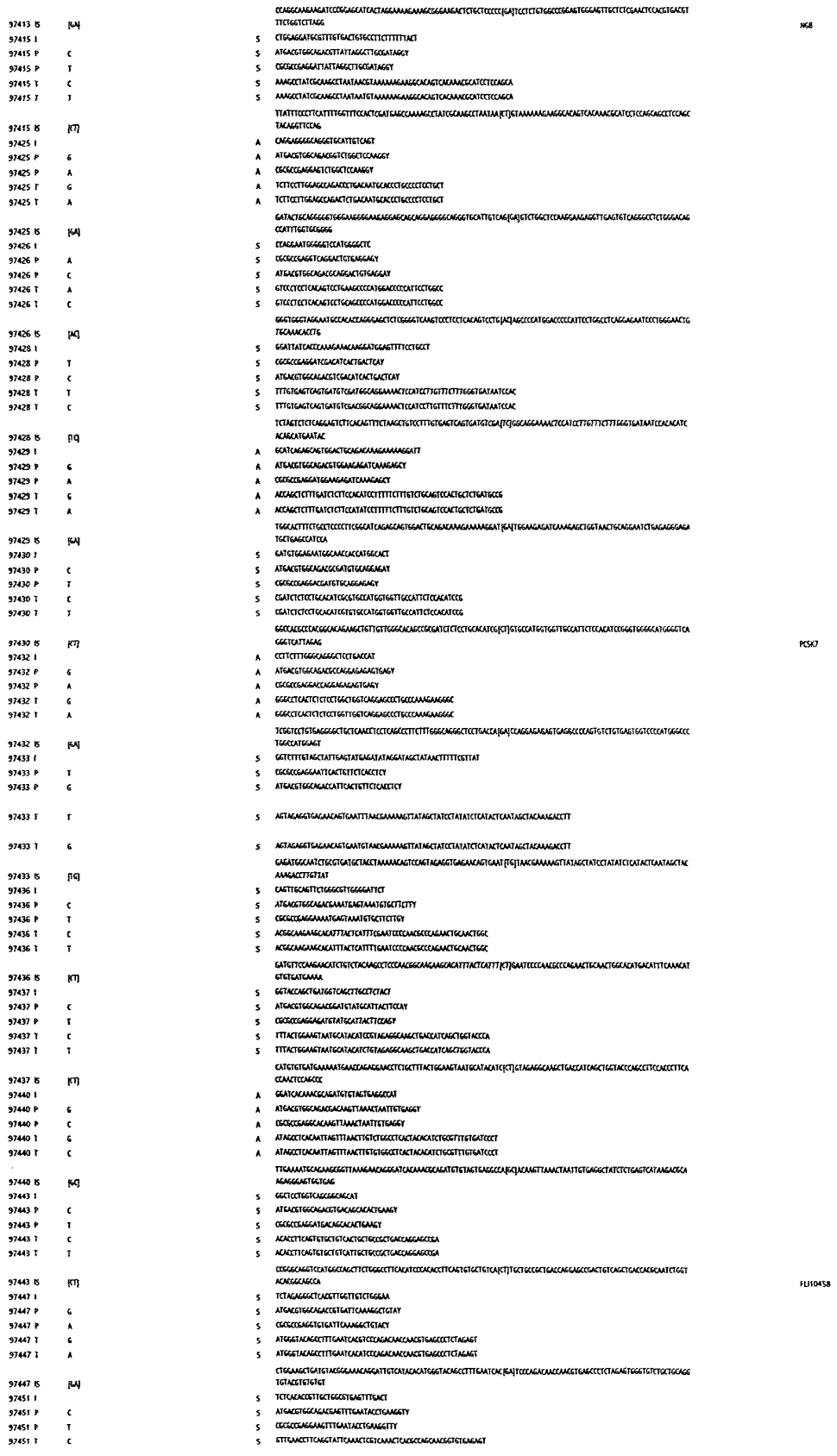




FIGURE 129C



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97451 T   T    S  GTTGAACCTTCAGGTATTCAAACTTGTCAAACTCACGCCAGCAACGGTGTGAGAGT

                 AACAGCTTTGGCCAAGAGGGAGGCAGACCTAGTCCAGTTGAACCTTCAGGTATTCAAACT[CT]GTCAAACTCACGCCAGCAACGGTGTGAGAGTTGGTGGGGCTGTGCGC
97451 IS  [CT]    ACTCCGAGAATCT
97454 I           S  CCATCTTGAAATTTGCTTAATCTTTCAAAGTATGATGACATGGGT
97454 P   C       S  ATGACGTGGCAGACGGCCTGTACAATGTCTAAAAY
97454 P   T       S  CGGCGCGAGGAGCCTGTACAATGTCTAAAATAY

97454 T   C       S  TGGCTATTTTAGACATTGTACAGGCCCCCATGTCATCATACTTTGAAAGATTAAGCAAATTTCAAGATGGAG

97454 T   T       S  TGGCTATTTTAGACATTGTACAGGCTCCCATGTCATCATACTTTGAAAGATTAAGCAAATTTCAAGATGGAG

                 TTTCAGTGAGTTATTAAGGCTAACAAGAACACTTCTGGCTATTTTAGACATTGTACAGGC[CT]CCCATGTCATCATACT)TGAAAGATTAAGCAAATTTCAAGATGGAG
97454 IS  [CT]    GTAAGAATTTTGGG
97458 I           A  GGTGCTTGTACCAGAATATAAA[GAATJACTTCTTTCATTGGCT
97458 P   G       A  ATGACGTGGCAGACGAAGTCTTGCTTCGAAAACY
97458 P   A       A  CGCGCCGAGGAAAGTCTTGCTTCGAAAACAY

97458 T   G       A  TGTTTGTTTTCGAAGCAAGACTTGCCAATGAAAGAAGTAATTGATTTATATTCTGGTACAAGCACCTT

97458 T   A       A  TGTTTGTTTTCGAAGCAAGACTTGCCAATGAAAGAAGTAATTGATTTATATTCTGGTACAAGCACCTT

                 TGGTCTGTGATAGATAAGGTGCTTGTACCAGAATATAAATCAATTACTTCTTTCATTGGC[GA]AAGTCTTGCTTCGAAAACAAACACAACAAATGTCAGCTGAAGTAA
97458 IS  [GA]    ACAATCTGCTGAAT
97467 I           S  GGCATGGAAGGTCATAGGATTAACACAGAATATCTTCTCGGGA
97467 P   G       S  ATGACGTGGCAGACCGATCAGCTTTACTTGGGY
97467 P   A       S  CGCGCCGAAGGTGATCAGGTTTACTTGGGY
97467 T   G       S  TTTCCCCAAGTAAACCTGATCGCCCGAGAAGATATTCTGTGTTAATCCTATGACCTTCCATGCCCC
97467 T   A       S  TTTCCCCAAGTAAACCTGATCACCCGAGAAGATATTCTGTGTTAATCCTATGACCTTCCATGCCCC

                 ATATATCCATATATCCATGTTTAACGGGAAAATACATTTTTTCCCCAAGTAAACCTGATC[GA]CCCGAGAAGATATTCTGTGTTAATCCTATGACCTTCCATGCCCTAA
97467 IS  [GA]    AGCACCAGCCTGC
97476 I           S  GACTGCTGTCACCCACCATGAGAGGCAT
97476 P   G       S  CGCGCTGAGGCAGCAGCCAGGCY
97476 P   C       S  ATGACGTGGCAGACGAGCAGCCAGGCT
97476 T   G       S  CCCCGCCTGGGCTGCTGTGCCTCCATGGTGGGTGACAGCAGTCCC
97476 T   C       S  CCCCGCCTGGGCTGCTCTGCCTCTCATGGTGGGTGACAGCAGTCCC

                 AAGATAAATCAAGTCAGAAACCCCCTGTAACTATCTTCCCCCCACCCCGCCTGGGCTGCT[GC]TGCCTCTCATGGTGGGTGACAGCAGTCCCTGTGCCCTCCAAGTCAATG
97476 IS  [GC]    CAGGCCAGGCAT
97477 I           S  CCTGCCTCTGCTTCTCATTCCCATCGCCT
97477 P   T       S  CGCGCCGAGGAACTCCATACAGAGCCAGY
97477 P   C       S  ATGACGTGGCAGACGCTCCATACAGAGCCAY
97477 T   T       S  GCCCCTGGCTCTGTATGGAGTGGCGATGGGAATGAGAAGCAGAGGCAGGCA
97477 T   C       S  GCCCCTGGCTCTGTATGGAGCGGCGATGGGAATGAGAAGCAGAGGCAGGCA

                 CAGGCATTCAACCAGGGTAAGGAACTCTCCGGTCTTCCAGGGCCCCTGGCTCTGTATGGAG[TC]GGCGATGGGAATGAGAAGCAGAGGCAGGCAACTGGAGCCTGTGGGT
97477 IS  [TC]    TAGGGTAAGCCTAG
97489 I           A  AACCCCTAAATTCTCTTTACTGTGGCACCTCGTTAGCT
97489 P   A       A  CGCGCCGAGGAGCGATCCATATCTAGCTTATTAACY
97489 P   G       A  ATGACGTGGCAGACGCGATCCATATCTAGCTTATTAAY

97489 T   A       A  TAGGGTTAATAAGCTAGATATGGATCGTGCTAACCAGGTGCCCACAGTAAAGAGAATTTAGGGGTTCT

97489 T   G       A  TAGGGTTAATAAGCTAGATATGGATCGCGCTAACGAGGTGCCACAGTAAAGAGAATTTAGGGGTTCT

                 GGGAAGCAGGTGCTGGCCCAGAGAACCCCTAAATTCTCTTTACTGTGGCACCTCGTTAGC[AG]CGATCCATATCTAGCTTATTAACCCTACGGACTGACAACCTGCAGGG
97489 IS  [AG]    CTAATCTGCGGCA
97490 I           S  GCATGCTCATTTATGGCTGAAAAATTGATTTAGTCTTCAACTT
97490 P   C       S  ATGACGTGGCAGACGCACAGAGGCAGTTTCY
97490 P   G       S  CGCGCCGAGGCCACAGAGGCAGTTTCY
97490 T   C       S  AAAAGAAACTGCCTCTGTGGAGTTGAAGACTAAATCAATTTTTCAGCCATAAATGAGCATGCTA
97490 T   G       S  AAAAGAAACTGCCTCTGTGGAGTTGAAGACTAAATCAATTTTTCAGCCATAAATGAGCATGCTA

                 TTGAGTATTATTTCTTTTTTTCTTTTTTTTTCTTTCAGATCAAAAGAAACTGCCTCTGTG[CG]AGTTGAAGACTAAATCAATTTTTCAGCCATAAATGAGCATGCTAACA
97490 IS  [CG]    AAGATCTTGGAAT
97491 I           S  GGCTGAAAACGAGGCCCCAAACTCGAGTTTT
97491 P   C       S  ATGACGTGGCAGACGCCCTTCACTATGGGGY
97491 P   T       S  CGCGCCGAGGACCCTTCACTATGGGGY
97491 T   C       S  CCCTCCCCATAGTGAAGGGCAAACTCGAGTTTGGGGCCTCGTTTTCAGCCAC
97491 T   T       S  CCCTCCCCATAGTGAAGGGTAAACTCGAGTTTGGGGCCTCGTTTTCAGCCAC

                 AGCCTCTTTAGAAGCCGGGGCCCGGGGAGGGTCCGCTTTCCCCCTCCCCATAGTGAAGGG[CT]AAACTCGAGTTTGGGGCCTCGTTTTCAGCCACTTCTAACTTTATGTTT
97491 IS  [CT]    ATGTCCCACCCG
97492 I           A  CCTCGCCTAGCTCCTGCTACCAGTTACGATT
97492 P   G       A  ATGACGTGGCAGACGGCAAAACAGCAGTGAY
97492 P   A       A  CGCGCCGAGGAGCAAAACAGCAGTGACY
97492 T   G       A  CTCGGTCACTGCTGTTTTGCCATCGTAACTGGTAGCAGGAGCTAGGCGAGGCT
97492 T   A       A  CTCGGTCACTGCTGTTTTGCTATCGTAACTGGTAGCAGGAGCTAGGCGAGGCT

                 CTGGATTCCCGCTTTCAAACTCCCGCAAAGCCTCGCCTAGCTCCTGCTACCAGTTACGAT[GA]GCAAAACAGCAGTGACCGAGATCGTCAACAGGTGGGGAGCAAGTTAG
97492 IS  [GA]    GCAGTCTGAACCA
97522 I           A  GGCACCTGCAGCCAGCTATGCACCT
97522 P   A       A  CGCGCCGAGGAACACAGACGCTCCY
97522 P   G       A  ATGACGTGGCAGACGACACAGACGCTCCY
97522 T   A       A  TGAAGGAGCCGTCTGTGTTGGTATGCATAGCTGGCTGCAGGTGCCGT
97522 T   G       A  TGAAGGAGCCGTCTGTGTCGGTGCATAGCTGGCTGCAGGTGCCGT

                 CTTTCCTGGGCAGATTTTGATGAGTGCTCAGTGTACGGCACCTGCAGCCAGCTATGCACC[AG]ACACAGACGGCTCCTCATATGTGGCTGTGTTGAAGGATACCTCCTGC
97522 IS  [AG]    AGCCGGATAACC
97526 I           A  GCCCAGCTAGGGGCTAGTGTGGGGT
97526 P   A       A  CGCGCCGAGGAACCTGTCCTAGAGGGAY
97526 P   G       A  ATGACGTGGCAGACGCCTGTCCTAGAGGGY
97526 T   A       A  GCAGTCCCTCTAGGACAGGTCCCCACACTAGCCCCTAGCTGGGCTT
97526 T   G       A  GCAGTCCCTCTAGGACAGGCCCCCACACTAGCCCCTAGCTGGGCTT

                 TGTGGAGGCGGTGGTTGGGGAGGATGTCCTGGAAAAGCCCAGCTAGGGGCTAGTGTGGGG[AG]CCTGTCTAGAGGGACTGCCTCCTCTGACTCTAAGCAGAGTTCTCTC
97526 IS  [AC]    CGTCCCTTCCAGCC
97532 I           A  ACATTCGCTTGGTCTTAGTTCACAATAGAGCACCAGTTATTACAT
97532 P   G       A  ATGACGTGGCAGACGGTTTTCTGGGATCGCY
97532 P   A       A  CGCGCCGAGGAGTTTTCTGGGATCGCAT

97532 T   G       A  ACTGTGCGATCCCAGAAAACCTGTAATAACTGGTGCTCTATTGTGAACTAAGAACCAAGCGAATGTTG

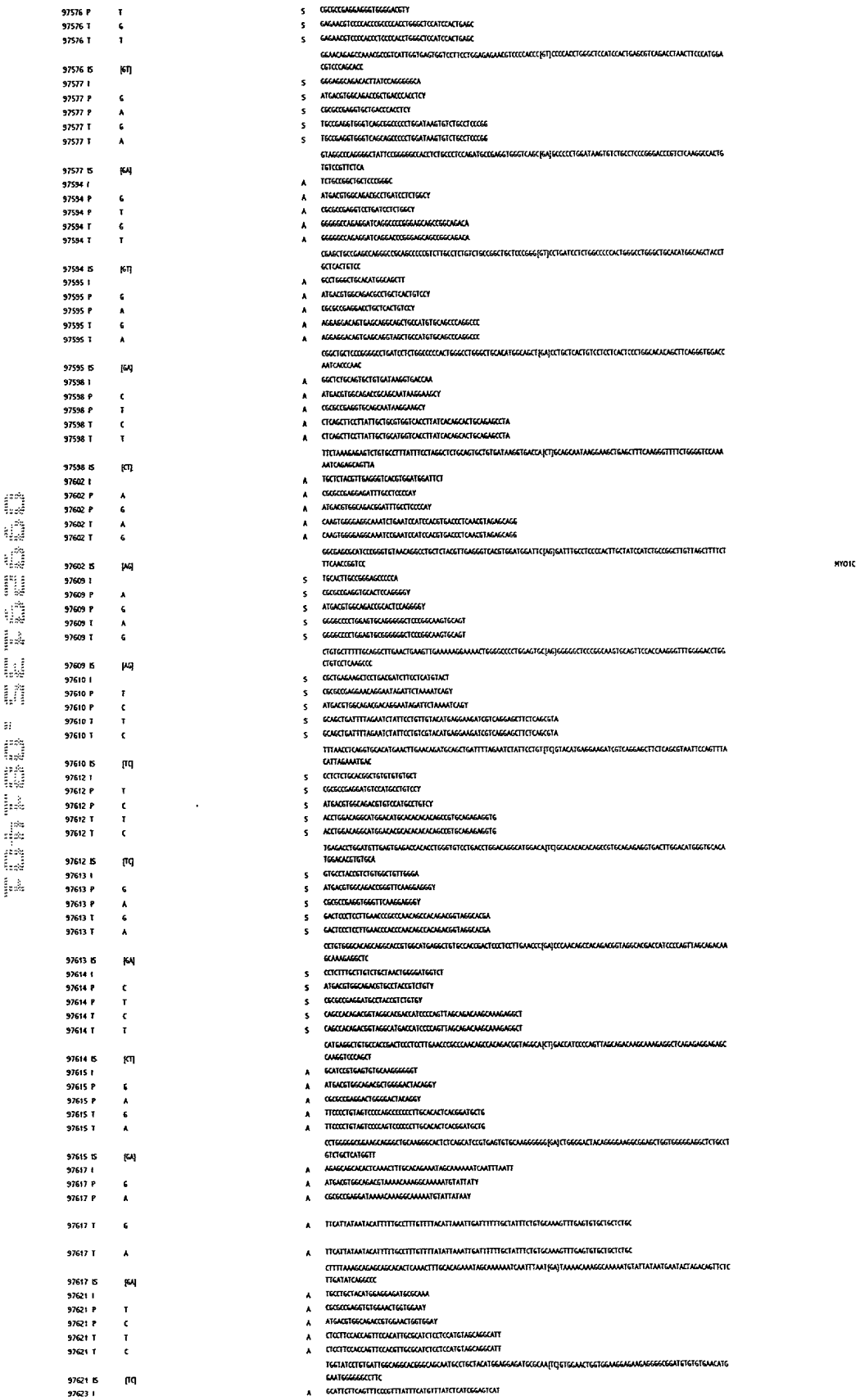
97532 T   A       A  ACTGTGCGATCCCAGAAAACTTGTAATAACTGGTGCTCTATTGTGAACTAAGAACCAAGCGAATGTTG

                 TAGCATTTGCTACCAACATTCGCTTGGTTCTTAGTTCACAATAGAGCACCAGTTATTACA[GA]GTTTTCTGGGATCGCACAGTCAACACAATGCAAATGTGGCTTTTTGA
97532 IS  [GA]    AAATGAACACAAAT
97534 I           S  GCCAGGTGCACAAGTTAGAGTTGCTTTTTGGGACC
97534 P   A       S  CGCGCCGAGGTGGCATTTATGTATGTGAGAAY
97534 P   C       S  ATGACGTGGCAGACGGGCATTTATGTATGTGAGAY
97534 T   A       S  TTGATTCTCACATACATAAATGCCAGTCCCAAAAAGCAACTCTAACTTGTGCACCTGGCTT
```

FIGURE 129C


97534 T C S TTGATTCTCACATACATAAATGCCCGTCCCAAAAAGCAACTCTAACTTGTGCACCTGGCTT
ATGGCTTTAGTCAGGCTGCCAAGAGTGATATCAGGTTTGATTCTCACATACATAAATGCC[AC]GTCCCAAAAGCAACTCTAACTTGTGCACCTGGCTTAAAACAAAATG
97534 IS [AC] TACTGAAAACTTT
97535 I A CCATTCAGGCCTCAATTCCCTTTGGACTTGCACT
97535 P G A ATGACGTGGCAGACGCGCACTTCCTACACY
97535 P A A CGCGCCGAGGACGCACTTCCTACACAY
97535 T G A TCTGTGTGTAGGAAGTGCGCGTGCAAGTCCAAAGGGAATTGAGGCCTGAATGGGT
97535 T A A TCTGTGTGTAGGAAGTGCGTGTGCAAGTCCAAAGGGAATTGAGGCCTGAATGGGT
TTGTATTTGTTAATTGGGATAACCEACCCATTEAGGCCTCAATTCCCTTTGGACTTGCACJGA]CGCACTTCCTACACACAGAAGTGGCCTGTTATGCAGCAATAATCATAG
97535 IS [GA] TGAAAAGCAGCA
97539 I A CTCCACAAAGCACGGATTGTCCACGGCTA
97539 P T A CGCGCCGAGGTTGTGCATTCCTAGGGTY
97539 P C A ATGACGTGGCAGACCTGTGCATTCCTAGGGTY
97539 T T A TAAGACCCTAGGAATGCACAAAGCCGTGGACAATCCGTCCTTTGTGGAGTC
97539 T C A TAAGACCCTAGGAATGCACAGAGCCGTGGACAATCCGTCCTTTGTGGAGTC
AGCGTGTGCGTCTGTCTGGGGCTGTGCACAGACTCCACAAAGGAAGCGATTGTCCACGGCTJTCJTGTGCATTCCTAGGGTCTTATATAAGCAGGATTGCCCTCCGTGCCAT
97539 IS [TC] CCGACTTCTCATG
97546 I A GACCCAATAATTCCCGAGTACCTTCAGGAAAGTCAT
97546 P A A CGCGCCGAGGATTTATTTTGAGTCAAAGGAATCTY
97546 P G A ATGACGTGGCAGACGTTTATTTTTGAGTCAAAGGAATCT
97546 T A A TTTGAGATTCCTTGACTCAAAAATAAATTGACTTTCCTGAAGGTACCTCGGGAATTATTGGGTCGG
97546 T G A TTTGAGATTCCTTTGACTCAAAAATAAACTGACTTTCCTGAAGGTACCTCGGGAATTATTGGGTCGG
AGAAATCTGCCAGGACTAAAGACCGACCCAATAATTCCCGAGGTACCTTCAGGAAAGTCA[AG]TTTATTTTTGAGTCAAAGGAATCTCAAATTATCCTAAATGGCATTG
97546 IS [AG] CTTCCACCAAGTT
97553 I A GCACCACACCTTTGAGAAGTGTTTTTTTTCCTTCTAACTGTATTCAT
97553 P G A ATGACGTGGCAGACGCAGGAGAGAAAATTGACATY
97553 P A A CGCGCCGAGGACAGGAGAGAAAATTGACATY
97553 T G A CTACATGTCAATTTTCTCTCCTGCTGAATACAGTTAGAAGGAAAAAAAAGACTTCTCAAAGGTGTGGTGCTG
97553 T A A CTACATGTCAATTTTCTCTCCTGTTGAATACAGTTAGAAGGAAAAAAAAGACTTCTCAAAGGTGTGGTGCTG
TCCTTAACGAAACAGCACACACCTTTGAGAAGTGTTTTTTTTCCTTCTAACTGTATTCA[GA]CAGGAGAGAAAATTGACATGTAGTGAGGTTAGATGTCGTTTCAAAA
97553 IS [GA] CCGTGAATCAGAGA
97561 I A CGCCACCTCCTGTTAGACAGAGAAGGTAGAGTTGAT
97561 P G A ATGACGTGGCAGACGGGATGTTCAGGTGTCTY
97561 P A A CGCGCCGAGGAGGATGTTCAGGTGTCTY
97561 T G A GCTCAGACACCTGAACATCCCTCAACTCTACCTTCTCTGTCTAACAGGAGGTGGCGGC
97561 T A A GCTCAGACACCTGAACATCCTTCAACTCTACCTTCTCTGTCTAACAGGAGGTGGCGGC
TTGCCATAACTGGAGTAGCCAGCGCGCCACCTCCTGTTAGACAGAGAAGGTAGAGTTGA[GA]GGATGTTCAGGTGTCTGAGCGTGGGGTTTCCTGCAGGTGTTGGTCT
97561 IS [GA] GTCCAGCTCATTGG
97563 I A AGTTTGTTCTGATTTGCTGCCCACGGTGTGTTTATAGATA
97563 P T R CGGCCCGAGGTGCCATTGTCTGGTTAAAAY
97563 P C A ATGACGTGGCAGACGCCCATTGTCTGGTTAAY
97563 T T A TGATTTTTAACCAGACAATGGCAATCTATAAACACACCGTGGGCAGCAAATCAGAACAAACTGC
97563 T C A TGATTTTTAACCAGACAATGGCGATCTATAAACACACCGTGGGCAGCAAATCAGAACAAACTGC
CGGCGTGACTATGCGACCTTGCAGTTTGTTCTGATTTGCTGCCCACGGTGTGTTTATAGATJTG]GCCATTGTCTGGTTAAAAATCACTTTGCAGATAGAAGTAAAACCTTG
97563 IS [TC] AAACCTGAAACTT
97564 I S GGCGTTCATGGCCTTTCTTCATGCTTCCAT
97564 P T S CGCGCCGAGGATGAATCTTCAATGCATATTGCY
97564 P C S ATGACGTGGCAGACGTGAATCTTCAATGCATATTGCY
97564 T T S AAATGCAATATGCATTGAAGATTCATTGCAAGCATGAAGAAAGCCCATGAACGCCCT
97564 T C S AAATGCAATATGCATTGAAGATTCACTGGAAGCATGAAGAAAGCCCATGAACGCCCT
CTTCTTGGTGGGTTCTGTGAACAAACAGAGACAAATAAATGCAATATGCATTGAAGATTCA[TC]TGGAAGCATGAAGAAAGCCATGAACGCCCTGATGAAAGGTGAAA
97564 IS [TC] AGGGAGTGACAAAGC
97565 I A CCATACAAAGTAAATGATATATAGACACAAATTCCATGTTGAATTGAGAAAAAAGT
97565 P A A CGCGCCGAGGACAAGAAAACACCCTTAAAATCY
97565 P G A ATGACGTGGCAGACGCAAGAAAACACCCTTAAAATY
97565 T A A AATGGATTTTAAGGGTGTTTTCTTGTCTTTTTCTCAATTCAACATGGAATTTGTGTCTATATCATTTACTTTGTATGGCT
97565 T G A AATGGATTTTAAGGGTGTTTTCTTGCCTTTTTCTCAATTCAACATGGAATTTGTGTCTATATCATTTACTTTGTATGGCT
GAZAAAGCATACAAAGTAAATGATATAGACACAAATTCCATGTTGAATTGAGAAAAAAG[AG]CAAGAAAACACCCTTAAAATCCATTCAAAACAATCCACCCTTGAG
97565 IS [AG] GCTGTGAGGATGCC
97569 I S CTGAATCTGCTCAAATTTATATTAAAAATAAGTCGTTCATGGCTTTGAGATAATAT
97569 P C S ATGACGTGGCAGACGCCTCAGTTAGTAACAAGTTAY
97569 P T S CGGCCCGAGGACCTCAGTTAGTAACAAGTTATTY
97569 T I S CTCAAATAACTTGTTACTAACTGAGGCTATTATCTCAAAGCCATGAACGACTTATTTTTAATATAAATTTGAGCAGATTCAGGG
97569 T T S CTCAAATAACTTGTTACTAACTGAGGTTATTATCTCAAAGCCATGAACGACTTATTTTTAATATAAATTTGAGCAGATTCAGGG
TCAGTCCAACCACTGGGCAACATCTTTTTTTGCACTCAAATAACTTGTTACTAACTGAGG[CT]TATTATCTCAAAGCCATGAACGACTTATTTTTAATATAAATTTGAGC
97569 IS [CT] AGATTCAGGGTTC
97570 I S CTCCCATGGTTCTGTGTGTGCTGGCCT
97570 P T S CGCGCCGAGGATAACCCGCCCTGCY
97570 P C S ATGACGTGGCAGACGTAACCCGCCCTGCY
97570 T T S CTCAGCAGGGCGGGTTATGGCGCAGCACACACAGAACCATGGGAGCC
97570 T C S CTCAGCAGGGCGGGTTACGGCCAGCACACACAGAACCATGGGAGCC
CACTCCTACTCTTTGTACTCCAGGATGCTCTCCTGCATGAACTCAGCAGGGCGGGTTA[TC]GGCCAGCACACACAGAACCATGGGAGCCCACAGCCCCCAGGGAACAG
97570 IS [TC] TGCGGTGGGTGC
97572 I S AGACACTACCAGCACTTTGTGCTTTGAGGTATCACATTTCTAGT
97572 P T S CGCGCCGAGGAAGGAGAAATAGAGAATGTTAGGY
97572 P C S ATGACGTGGCAGACGAGGAGAAATAGAGAATGTTAGGY
97572 T T S GATACCTAACATTCTCTATTTCTCCTTCTAGAAATGTGATACCTCAAAGCACAAAGTGCTGGTAGTGTCTGT
97572 T C S GATACCTAACATTCTCTATTTCTCCTCCTAGAAATGTGATACCTCAAAGCACAAAGTGCTGGTAGTGTCTGT
AGGTGTGTAACTTTTACTCCTTGTGTAATCAGCAGATACCTAACATTCTCTATTTCTCCT[TC]CTAGAAATGTGATACCTCAAAGCACAAAGTGCTGGTAGTGTCTGTGT
97572 IS [TC] GTCCTCAATCTTT
97574 I S CGGGCCTGCTGCACCTTAGGTTGACT
97574 P T S CGCGCCGAGGATCGTAAATGTCATGAATTCATTTY
97574 P C S ATGACGTGGCAGACGTGTAAATGTCATGAATTCATTY
97574 T T S TTTAAAATGAATTCATGACATTTACGATGTCAACCTAAGGTGCAGCAGGCCCGTT
97574 T C S TTTAAAATGAATTCATGACATTTACGACGTCAACCTAAGGTGCAGCAGGCCCGTT
CTCTCTGTAAGAAAAAAAATCCTTCTACCTTGCTTTAAAATGAATTCATGACATTTACGA[TC]GTCAACCTAAGGTGCAGCAGGCCCGTTTTCCGTTTACTGACTGAAAC
97574 IS [TC] GCAGCTGTTCTAT
97576 I S TCAGTGGATGCAGCCCAGGTGGGGT
97576 P G S ATGACGTGGCAGACCGGCTGGGGACGY

FIGURE 129C


97576 P T S CGCGCCGAGGAGGGTGGGGACGTY
97576 T G S GAGAACGTCCCCACCCGCCCCACCTGGGCTCCATCCACTGAGC
97576 T T S GAGAACGTCCCCACCCTCCCCACCTGGGCTCCATCCACTGAGC
97576 IS [GT] GGAACAGAGCCAAACGCCGTCATTGGTGAGTGGTCCTTCCTGGAGAGAAGTCCCCCACCC[GT]CCCCACCTGGGCTCCATCCACTGAGCGTCAGACCTAACTTCCCATGGA CGTCCCAGCACC
97577 I S GGGAGGCAGACACTTATCCAGGGGGCA
97577 P G S ATGACGTGGCAGACGCTGACCCACCTCY
97577 P A S CGCGCCGAGGTGCTGACCCACCTCY
97577 T G S TGCCGAGGTGGGTCAGCGCCCCCTGGATAAGTGTCTGCCTCCCGG
97577 T A S TGCCGAGGTGGGTCAGCAGCCCCTGGATAAGTGTCTGCCTCCCGG
97577 IS [GA] GTAGGCCCAGGGGCTATTCCGGGGGCCACCTCTGCCCTCCAGATGCCGAGGTGGGTCAGC[GA]GCCCCCTGGATAAGTGTCTGCCTCCCGGGACCCGTCTCAAGGCCACTG TGTCCGTTCTCA
97594 I A TCTGCCGGCTGCTCCCCGGGC
97594 P G A ATGACGTGGCAGACGCCTGATCCTCTGGCY
97594 P T A CGCGCCGAGGTCCTGATCCTCTGGCY
97594 T G A GGGGGCAGAGGATCAGGCCCCGGGAGCAGCCGGCAGACA
97594 T T A GGGGGCCAGAGGATCAGGACCCGGGAGCAGCCGGCAGACA
97594 IS [GT] CGAGCTGCCGAGCCAGGGCCGGAGCCCCCGTCTTGCCTCTGTCTGCCGGCTGCTCCCGGG[GT]CCTGATCCTCTGGCCCCCACTGGGCCTGGGCTGCACATGGCAGCTACCT GCTCACTGTCC
97595 I A GCCTGGGCTGCACATGGCAGCTT
97595 P G A ATGACGTGGCAGACCGCAGCAATAAGGAAGCY
97595 P A A CGCGCCGAGGAACCTGCTCACTGTCCY
97595 T G A AGGAGCACAGTGAGCAGGCAGCTGCCATGTGCAGCCCAGGCCC
97595 T A A AGGAGGACAGTGAGCAGGTAGCTGCCATGTGCAGCCCAGGCCC
97595 IS [GA] CGGCTGCTCCCGGGGCCTGATCCTCTGGCCCCCACTGGGCCTGGGCTGCACATGGCAGCT[GA]CCTGCTCACTGTCCTCCTCACTCCCTGGCACACAGCTTCAGGGTGGACC AATCACCCAAC
97598 I A GGCTCTGCAGTGCTGTGATAAGGTGACCAA
97598 P C A ATGACGTGGCAGACCGCAGCAATAAGGAAGCY
97598 P T A CGCGCCGAGGTGCAGCAATAAGGAAGCY
97598 T C A CTCAGCTTCCTTATTGCTGCGTGGTCACCTTATCACAGCACTGCAGAGCCTA
97598 T T A CTCAGCTTCCTTATTGCTGCATGGTCACCTTATCACAGCACTGCAGAGCCTA
97598 IS [CT] TTCTAAAGAGAGTCTGTGCCTTTATTTCCTAGGCTCTGCAGTGCTGTGATAAGGTGACCA[CT]GCAGCAATAAGGAAGCTGAGCTTTCAAGGGTTTTCTGGGGTCCAAA AATCAGAGCAGTTA
97602 I A TGCTCTACGTTGAGGGTCACGTGGATGGATTCT
97602 P A A CGCGCCGAGGAGATTTGCCTCCCCAY
97602 P G A ATGACGTGGCAGACGGATTTGCCTCCCCAY
97602 T A A CAAGTGGGGAGGCAAATCTGAATCCATCCACGTGACCCTCAACGTAGAGCAGG
97602 T G A CAAGTGGGGAGGCAAATCCGAATCCATCCACGTGACCCTCAACGTAGAGCAGG
97602 IS [AG] GGCGAGGCATCCCGGGTGTAACAGGCCTGCTCTACGTTGAGGGTCACGTGGATGGATTC[AG]GATTTGCCTCCCACTTGCTATCCATCTGCCGGCTTGTTAGCTTTCT TTCAACCGTCC MYO1C
97609 I S TGCACTTGCCGGGAGCCCCCA
97609 P A S CGCGCCGAGGTGCACTCCAGGGGY
97609 P G S ATGACGTGGCAGACCGCACTCCAGGGGY
97609 T A S GGGGCCCCTGGAGTGCAGGGGGCTCCCGGCAAGTGCAGT
97609 T G S GGGGCCCCTGGAGTGCGGGGGGCTCCCGGCAAGTGCAGT
97609 IS [AG] CTGTGCTTTTTGCAGGCTTGAACTGAAGTTGAAAAAGGAAAACTGGGGCCCCTGGAGTGC[AG]GGGGCTCCCGGCAAGTGCAGTTCCACCAAGGGTTTGGGGACCTGG CTGTCCTCAAGCCC
97610 I S CGCTGAGAAGCTCCTGACGATCTTCCTCATGTACT
97610 P T S CGCGCCGAGGAACAGGAATAGATTCTAAAATCAGY
97610 P C S ATGACGTGGCAGACGACAGGAATAGATTCTAAAATCAGT
97610 T T S GCAGCTGATTTTAGAATCTATTCCTGTTGTACATGAGGAAGATCGTCAGGAGCTTCTCAGCGTA
97610 T C S GCAGCTGATTTTAGAATCTATTCCTGTCGTACATGAGGAAGATCGTCAGGAGCTTCTCAGCGTA
97610 IS [TC] TTTAACCTCAGGTGCACATGAACTTGAACAGATGCAGCTGATTTTAGAATCTATTCCTGT[TC]GTACATGAGGAAGATCGTCAGGAGCTTCTCAGCGTAATTCCAGTTTA CATTAGAAATGAC
97612 I S CCTCTCTGCACGGCTGTGTGTGTGCT
97612 P T S CGCGCCGAGGATGTCCATGCCTGTCCY
97612 P C S ATGACGTGGCAGACGTGTCCATGCCTGTCY
97612 T T S ACCTGGACAGGCATGGACATGCACACACACAGCCGTGCAGAGAGGTG
97612 T C S ACCTGGACAGGCATGGACACGCACACACACAGCCGTGCAGAGAGGTG
97612 IS [TC] TGAGACCTGGATGTTGAGTGAGACACACCTGGGTGTCCTGACCTGGACAGGCATGGACA[TC]GCACACACACAGCCGTGCAGAGAGGTGACTTGGACATGGGTGCACA TGGACACGTGTGCA
97613 I S GTGCCTACCGTCTGTGGCTGTTGGGA
97613 P G S ATGACGTGGCAGACCGGGTTCAAGGAGGGY
97613 P A S CGCGCCGAGGTGGGTTCAAGGAGGGY
97613 T G S GACTCCCTCCTTGAACCCGCCCAACAGCCACAGACGGTAGGCACGA
97613 T A S GACTCCCTCCTTGAACCCACCCAACAGCCACAGACGGTAGGCACGA
97613 IS [GA] CCTGTGGGCACAGCAGGCAGCCTGGCATGAGGCTGTGCCACCCGACTCCCTCCTTGAACCT[GA]CCCAACAGCCACAGACGGTAGGCAGCATCATCCCCAGTTAGCAGACAA GCAAAGAGGCTC
97614 I S CCTCTTTGCTTGTCTGCTAACTGGGGATGGTCT
97614 P C S ATGACGTGGCAGACGTGCCTACCGTCTGTGY
97614 P T S CGCGCCGAGGATGCCTACCGTCTGTGY
97614 T C S CAGCCACAGACGGTAGGCATGACCATCCCCAGTTAGCAGACAAGCAAAGAGGCT
97614 T T S CAGCCACAGACGGTAGGCATGACCATCCCCAGTTAGCAGACAAGCAAAGAGGCT
97614 IS [CT] CATGAGGCTGTGCCACCGACTCCCTCCTTGAACCCGCCCAACAGCCACAGACGGTAGGCA[CT]GACCATCCCCAGTTAGCAGACAAGCAAAGAGGCTCAGAGAGGAGAGC CAAGGTCCCAGCT
97615 I A GCATCCGTGAGTGTGCAAGGGGGGT
97615 P G A ATGACGTGGCAGACGCTGGGGACTACAGGY
97615 P A A CGCGCCGAGGACTGGGGACTACAGGY
97615 T G A TTCCCCTGTAGTCCCCAGCCCCCCTTGCACACTCACGGATGCTG
97615 T A A TTCCCCTGTAGTCCCCAGTCCCCCCTTGCACACTCACGGATGCTG
97615 IS [GA] CCTGGGGGCGGAAGCAGGGCTGCAAGGGCACTCTCAGCATCCGTGAGTGTGCAAGGGGGG[GA]CTGGGGACTACAGGGGAAGGCGGAGCTGGTGGGGGAGGCTCTGCCT GTCTGCTCATGGTT
97617 I A AGAGCAGCACACTCAAACTTTGCACAGAAATAGCAAAAATCAATTTAATT
97617 P G A ATGACGTGGCAGACGTAAAACAAAGGCAAAAATGTATTATAY
97617 P A A CGCGCCGAGGATAAAACAAAGGCAAAAATGTATTATAAY
97617 T G A TTCATTATAATACATTTTGCCTTTGTTTTACATTAAATTGATTTTTGCTATTTCTGTGCAAAGTTTGAGTGTGCTGCTCTGC
97617 T A A TTCATTATAATACATTTTGCCTTTGTTTTATATTAAATTGATTTTTGCTATTTCTGTGCAAAGTTTGAGTGTGCTGCTCTGC
97617 IS [GA] CTTTTAAAGCAGAGCAGCACACTCAAACTTTGCACAGAAATAGCAAAAAATCAATTTAAT[GA]TAAAACAAAGGCAAAAATGTATTATAATGAATACTAGACAGTTCTC TTGATATCAGGCCC
97621 I A TGCCTGCTACATGGAGGAGATGCGCAAA
97621 P T A CGCGCCGAGGTGTGGAACTGGTGGAAY
97621 P C A ATGACGTGGCAGACGTGGAACTGGTGGAY
97621 T T A CTCCTTCCACCAGTTCCACATTGCGCATCTCCTCCATGTAGCAGGCATT
97621 T C A CTCCTTCCACCAGTTCCACGTTGCGCATCTCCTCCATGTAGCAGGCATT
97621 IS [TC] TGGTATCCTGTGATTGGCAGGCACGGGCAGCAATGCCTGCTACATGGAGGAGATGCGCAAT[TC]GTGGAACTGGTGGAAGGAGAAGAGGGGCGGATGTGTGTGAACATG GAATGGGGGGCCTTC
97623 I A GCATTCTTCAGTTTCCGGTTTATTTCATGTTTATCTCATCGGAGTCAT

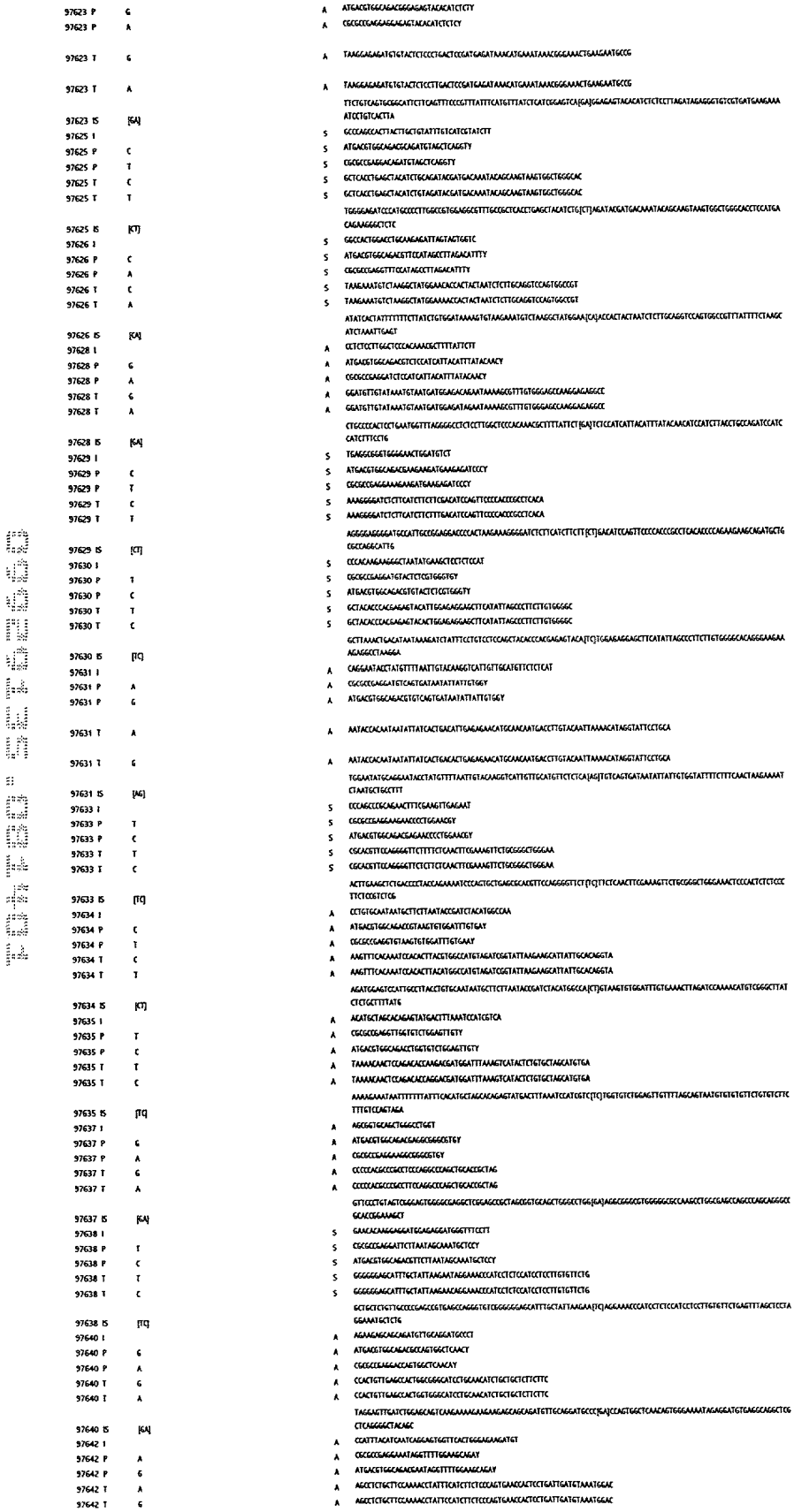

97623 P G A ATGACGTGGCAGACGGGAGAGTACACATCTCTY
97623 P A A CGCGCCGAGGAGCAGAGTACACATCTCTCY
97623 T G A TAAGGAGAGATGTGTACTCTCCCTGACTCCGATGAGATAAACATGAAATAAACGGGAAACTGAAGAATGCCG
97623 T A A TANGAGAGATGTGTACTCTCCTTGACTCCGATGAGATAAACATGAAATAAACGGGAAACTGAAGAATGCCG
97623 IS [GA] TTCTGTCAGTGCGGCATCTCTCAGTTTCCCGTTTATTTCATGTTTATCTGATCGGAGTCA[GA]GGAGAGTACACATCTCTCCTTAGATAGAGGGTGTCGTGATGAAGAAA ATCCTGTCACTTA
97625 I S GCCCAGCCACTTACTTGCTGTATTTGTCATCGTATCTT
97625 P C S ATGACGTGGCAGACGCAGATGTAGCTCAGGTY
97625 P T S CGCGCCGAGGACAGATGTAGCTCAGGTY
97625 T C S GCTCACCTGAGCTACATCTGCAGATACGATGACAAATACAGCAAGTAAGTGGCTGGGCAC
97625 T T S GCTCACCTGAGCTACATCTGTAGATACGATGACAAATACAGCAAGTAAGTGGCTGGGCAC
97625 IS [CT] TGGGGAGATCCCATCGCCCCTTGGCCGTGGAGGCGTTTGCCGCTCACCTGAGCTACATCTG[CT]AGATACGATGACAAATACAGCAAGTAAGTGGCTGGGCACCTCCATGA CAGAGGGCTCTC
97626 I S GGCCACTGGACCTGCAAGAGATTAGTAGTGGTC
97626 P C S ATGACGTGGCAGACGTTCCATAGCCTTAGACATTTY
97626 P A S CGCGCCGAGGTTTCCATAGCCTTAGACATTTY
97626 T C S TAAGAAATGTCTAAGGCTATGGAAAACCACTACTAATCTCTTGCAGGTCCAGTGGCCGT
97626 T A S TAAGAAATGTCTAAGGCTATGGAAAACCACTACTAATCTCTTGCAGGTCCAGTGGCCGT
97626 IS [CA] ATATCACTATTTTTTTCTTATCTGTGGATAAAAGTGTAAGAAATGTCTAAGGCTATGGAA[CA]ACCACTACTAATCTCTTGCAGGTCCAGTGGCCGTTTATTTTCTAAGC ATCTAAATTGAGT
97628 I A CCTCTCCTTGGCTCCCACAAACGCTTTTATTCTT
97628 P G A ATGAGGTGGCAGACGTCTCCATCATTACATTTATACAACY
97628 P A A CGCGCCCGAGGATCTCCATCATTACATTTATACAACY
97628 T G A GGATGTTGTATAAATGTAATGATGGAGACACAGAATAAAAGCGTTTGTGGGAGCCAAGGAGAGGCC
97628 T A A GGATGTTGTATAAATGTAATGATGGAGATAGAATAAAAGCGTTTGTGGGAGCCAAGGAGAGGCC
97628 IS [GA] CTGCCCCACTCCTGAATGGTTTAGGGGCCTCTCCTTGGCTCCCACAAACGCTTTTATTCT[GA]TCTCCATCATTACATTTATACAACATCCATCTTACCTGCCAGATCCATC CATCTTTCCTG
97629 I S TGAGGCGGGTGGGGAACTGGATGTCT
97629 P C S ATGACGTGGCAGACGAAGAAGATGAAGAGATCCCY
97629 P T S CGCGCCGAGGAAAGAAGATGAAGAGATCCCY
97629 T C S AAAGGGGATCTCTTCATCTTCTTCGACATCCAGTTCCCCACCCGCCTCACA
97629 T T S AAAGGGGATCTCTTCATCTTCTTTGACATCCAGTTCCCCACCCGCCTCACA
97629 IS [CT] AGGGGAGGGGGATGCCATTGCCGGAGGAACCCACTAAGAAAGGGGATCTCTTCATCTTCTT[CT]GACATCCAGTTCCCCACCCGCCTCACACCCCAGAAGAAGCAGATGCTG CGCCAGGCATTG
97630 I S CCCACAAGAAGGGCTAATATGAAGCTCCTCTCCAT
97630 P T S CGCGCCGAAGGAATGTACTCTCGTGGGTGY
97630 P C S ATGACGTGGCAGACGTGTACTCTCGTGGGTY
97630 T T S GCTACACCCACGAGAGTACATTGGAGAGGAGCTTCATATTAGCCCTTCTGTGGGGC
97630 T C S GCTACACCCACGAGAGTACACTGGAGAGGAGCTTCATATTAGCCCTTCTTGTGGGGC
97630 IS [TC] GCTTAAACTGACATAATAAAGATCTATTTCCTGTCCTCCAGCTACACCCACGAGAGTACA[TC]TGGAGAGGAGCTTCATATTAGCCCTTCTTGTGGGGCACAGGGAAGAA AGAGGCCTAAGGA
97631 I A CAGGAATAGCTATGTTTAATTGTACAAGGTCATTGTTGCATGTTCTCTCTCAT
97631 P A A CGCGCCGAGGATGTCAGTGATAATATTATTGTGGY
97631 P G A ATGACGTGGCAGACGTGTCAGTGATAATATTATTGTGGY
97631 T A A AATACCACAATAATATTATCACTGACATTGAGAGAACATGCAACAATGACCTTGTACAATTAAAACATAGGTATTCCTGCA
97631 T G A AATACCACAATAATATTATCACTGACACTGAGAGAACATGCAACAATGACCTTGTACAATTAAAACATAGGTATTCCTGCA
97631 IS [AG] TGGAATATGCAGGAATACCTATGTTTAATTGTACAAGGTCATTGTTGCATGTTCTCTCA[AG]TGTCAGTGATAATATTATTGTGGTATTTTCTTTCAACTAAGAAAAT CTAATGCTGCCTTT
97633 I S CCCAGCCCGCAGAACTTTCGAAGTTGAGAAT
97633 P T S CGCGCCGAGGAAGAACCCCTGGAACGY
97633 P C S ATGACGTGGCAGACGAGAACCCCTGGAACGY
97633 T T S CGCACGTTCCAGGGGTTCTTTTCTCAACTTCGAAAGTTCTGCGGGCTGGGAA
97633 T C S CGCACGTTCCAGGGGTTCTCTTCTCAACTTCGAAAGTTCTGCGGGCTGGGAA
97633 IS [TC] ACTTGAAGCTCTGACCCCTACCAGAAAATCCCAGTGCTGAGCGCAGTTCCAGGGGTCT[TC]TTCTCAACTTCGAAAGTTCTGCGGGCTGGGAAACTCCCACTCTCTCCC TTCTCCGCTCTG
97634 I A CCTGTGCAATAATGCTTCTTAATACCGATCTACATGGCCAA
97634 P C A ATGACGTGGCAGACGTAAGTGTGGATTTGTGAY
97634 P T A CGCGCCGAGGTGTAAGTGTGGATTTGTGAY
97634 T C A AAGTTTCACAAATCCACACTTACGTGGCCATGTAGATCGGTATTAAGAAGCATTATTGCACAGGTA
97634 T T A AAGTTTCACAAATCCACACTTACATGGCCATGTAGATCGGTATTAAGAAGCATTATTGCACAGGTA
97634 IS [CT] AGATGCAGTCCATTGCCTTACCTGTGCAATAATGCTTCTTAATACCGATCTACATGGCCA[CT]GTAAGTGTGGATTTGTGAAACTTAGATCCAAAACATGTCGGGCTTAT CTCTGCTTTTATG
97635 I A ACATGCTAGCACAGAGTATGACTTTAAATCCATCGTCA
97635 P T A CGCGCCGAGGTTGGTGTCTGGAGTTGTY
97635 P C A ATGACGTGGCAGACCTGGTGTCTGGAGTTGTY
97635 T T A TAAACAACTCCAGACACAAGAGGATGGATTTAAAGTCATACTCTGTGCTAGCATGTGA
97635 T C A TAAACAACTCCAGACACAAGAGGATGGATTTAAAGTCATACTCTGTGCTAGCATGTGA
97635 IS [TC] AAAGAAATAATTTTTTTATTTCNCATGCTAGCACAGAGTATGACTTTAAATCCATGTC[TC]TGGTGTCTGGAGTTGTTTTAGCAGTAATGTGTGTGTTCTGTGTCTTC TTTGTCCAGTAGA
97637 I A AGCGGTGCAGCTGGGCCTGGT
97637 P G A ATGACGTGGCAGACGAGCGGGCGTGY
97637 P A A CGCGCCGAGGAAGGCGGGCGTGY
97637 T G A CCCCCACGCCCGCCTCCCAGGCCCAGCTGCACCGCTAG
97637 T A A CCCCCACGCCCGCCTTCCAGGCCCAGCTGCACCGCTAG
97637 IS [GA] GTCCCTGTAGTCGGCAGTGGGGCGAGGCTCGGAGCCGCTAGCGGTCGAGCTGGGCCTGG[GA]AGGCGGGCGTGGGGGCGCCAAGCCTGCCGAGCCAGCCCAGCAGGGCC GCACCGGAAAGCT
97638 I S GAACACAAGGAGGATGGAGAGGATGGGTTTCCTT
97638 P T S CGCGCCGAGGATTCTTAATAGCAAATGCTCCY
97638 P C S ATGACGTGGCAGACGTTCTTAATAGCAAATGCTCCY
97638 T T S GGGGGGAGCATTTGCTATTAAGAATAGGAAACCCATCCTCTCCATCCTCCTTGTGTTCTG
97638 T C S GGGGGGAGCATTTGCTATTAAGAACAGGAAACCCATCCTCTCCATCCTCCTTGTGTTCTG
97638 IS [TC] GCTGCTCTGTTGCCCCGAGCCCTGAGCCAGGGTGTCGGGGCGGAGCATTTGCTATTAAGAA[TC]AGAAAACCCATCCTCTCCATCCTCCTTGTGTTCTGAGTTTAGCTCCTA GGAAATGCTCTG
97640 I A AGAAGAGCAGCAGATGTTGCAGGATGCCCT
97640 P G A ATGACGTGGCAGACGCAGTGGCTCAACY
97640 P A A CGCGCCGAGGACCAGTGGCTCAACAY
97640 T G A CCACTGTTGAGCCACTGGCGGGCATCCTGCAACATCTGCTGCTCTCTTC
97640 T A A CCACTGTTGAGCCACTGGTGGGCATCCTGCAACATCTGCTGCTCTCTTC
97640 IS [GA] TAGGAGTTGATCTGGAGCAGTCAAGAAAAGAAGAAGAGCAGAGATGTTGCAGGATGCCC[GA]CCAGTGGCTCAACAGTGGGAAAATAGAGGATGTGAGGCAGGCTCG CTCAGGGGCTACAGC
97642 I A CCATTTACATCAATCAGGAGTGGTTCACTGGGAGAAGATGT
97642 P A A CGCGCCGAGGAAATAGGTTTTGGAAGCAGAY
97642 P G A ATGACGTGGCAGACGAATAGGTTTTGGAAGCAGAY
97642 T A A AGCCTCTGCTTCCAAAACCTATTCATCTCTCCCAGTGAACCACTCCTGATTGATGTAAATGGAC
97642 T G A AGCCTCTGCTTCCAAAACCTATTCATCTCTCCCAGTGAACCACTCCTGATTGATGTAAATGGAC

FIGURE 129C

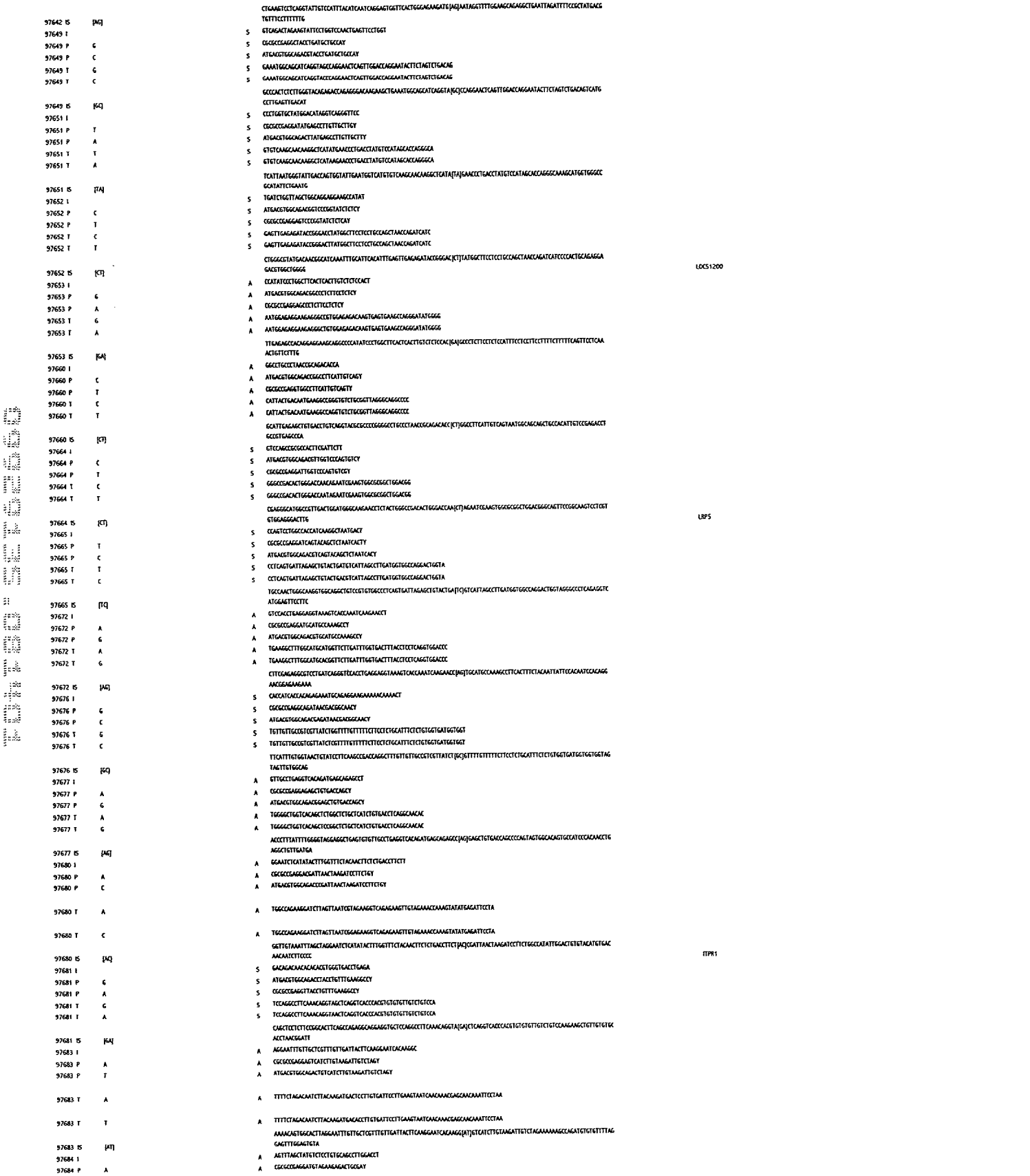
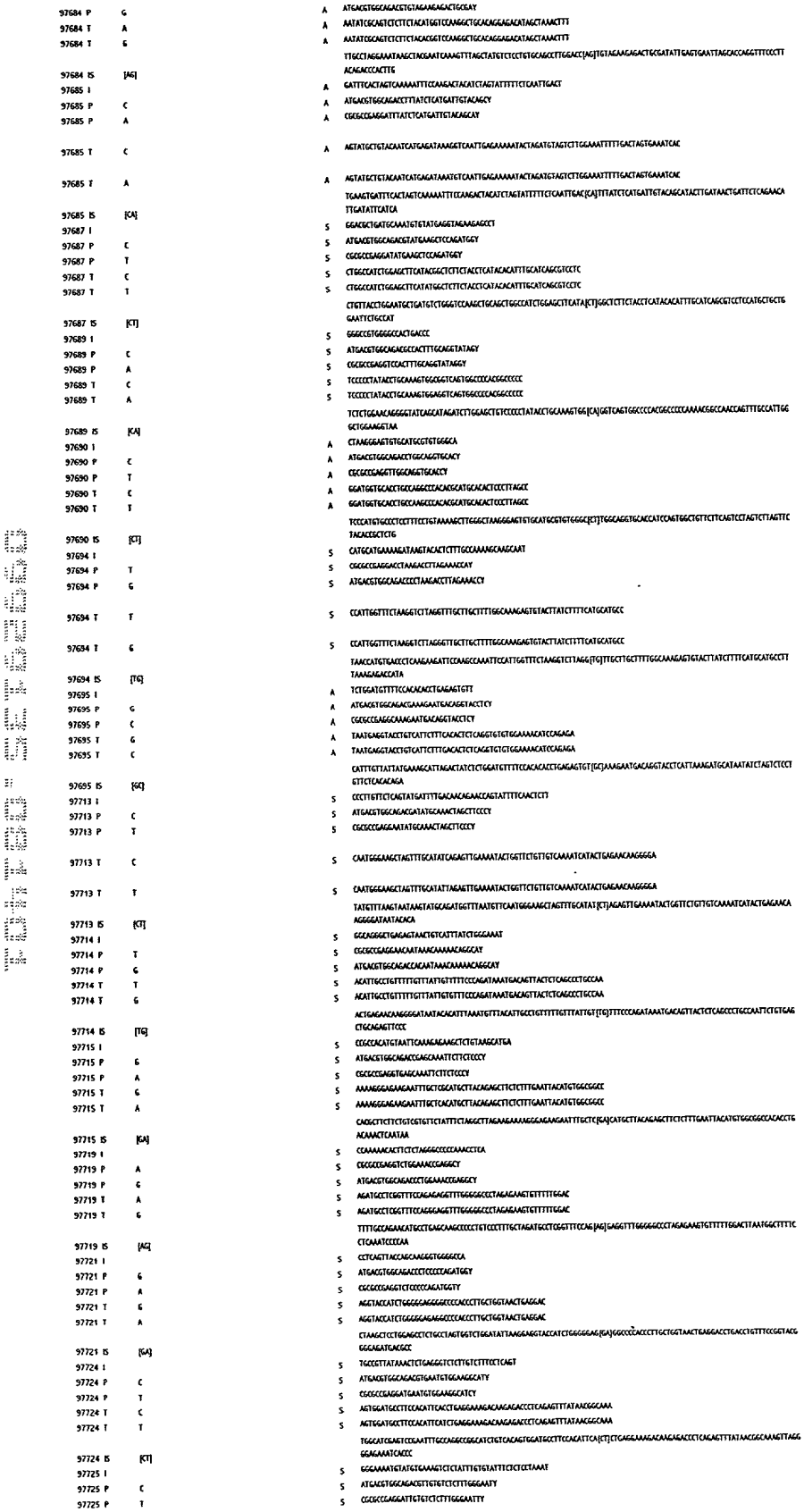
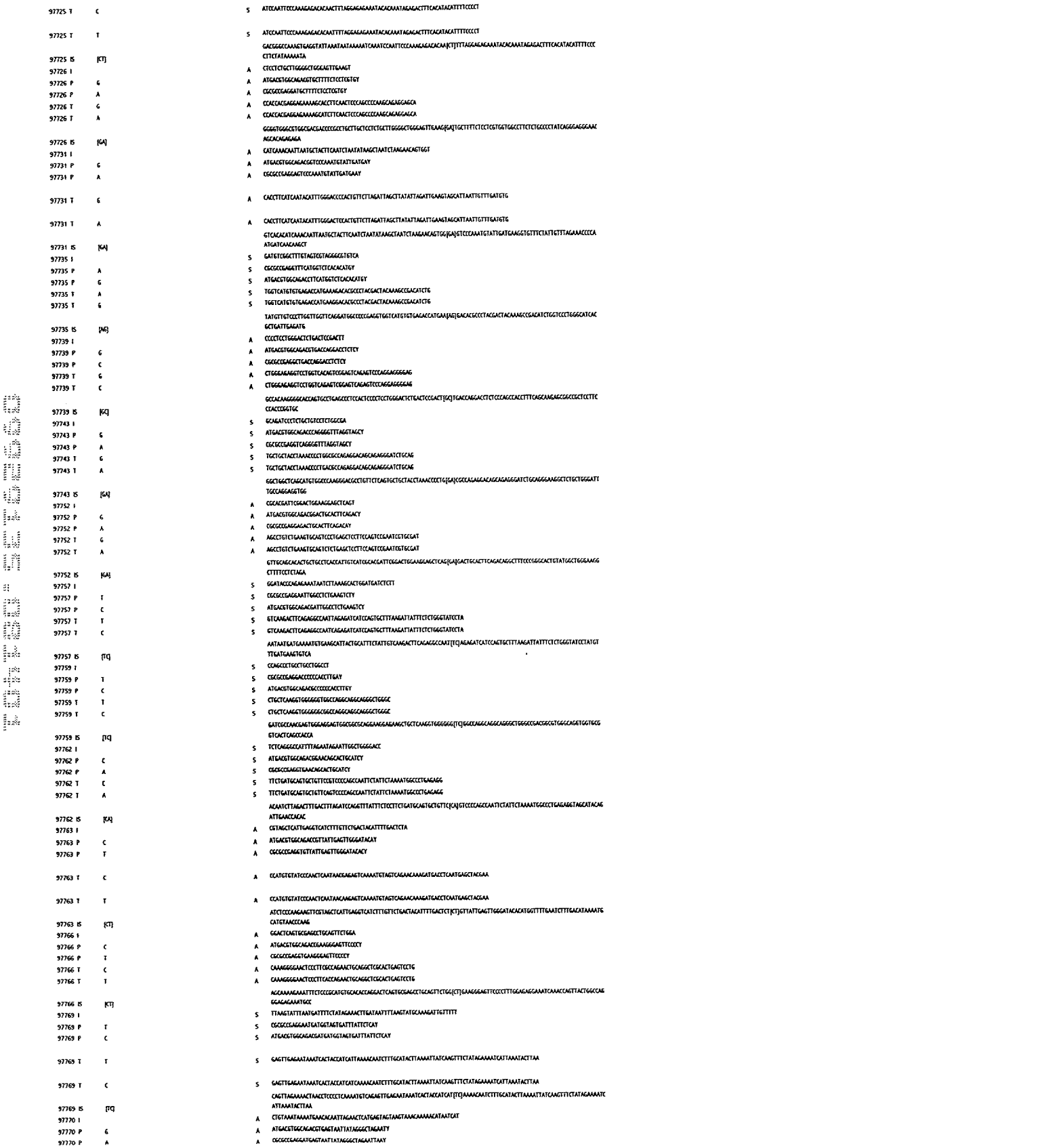


FIGURE 129C





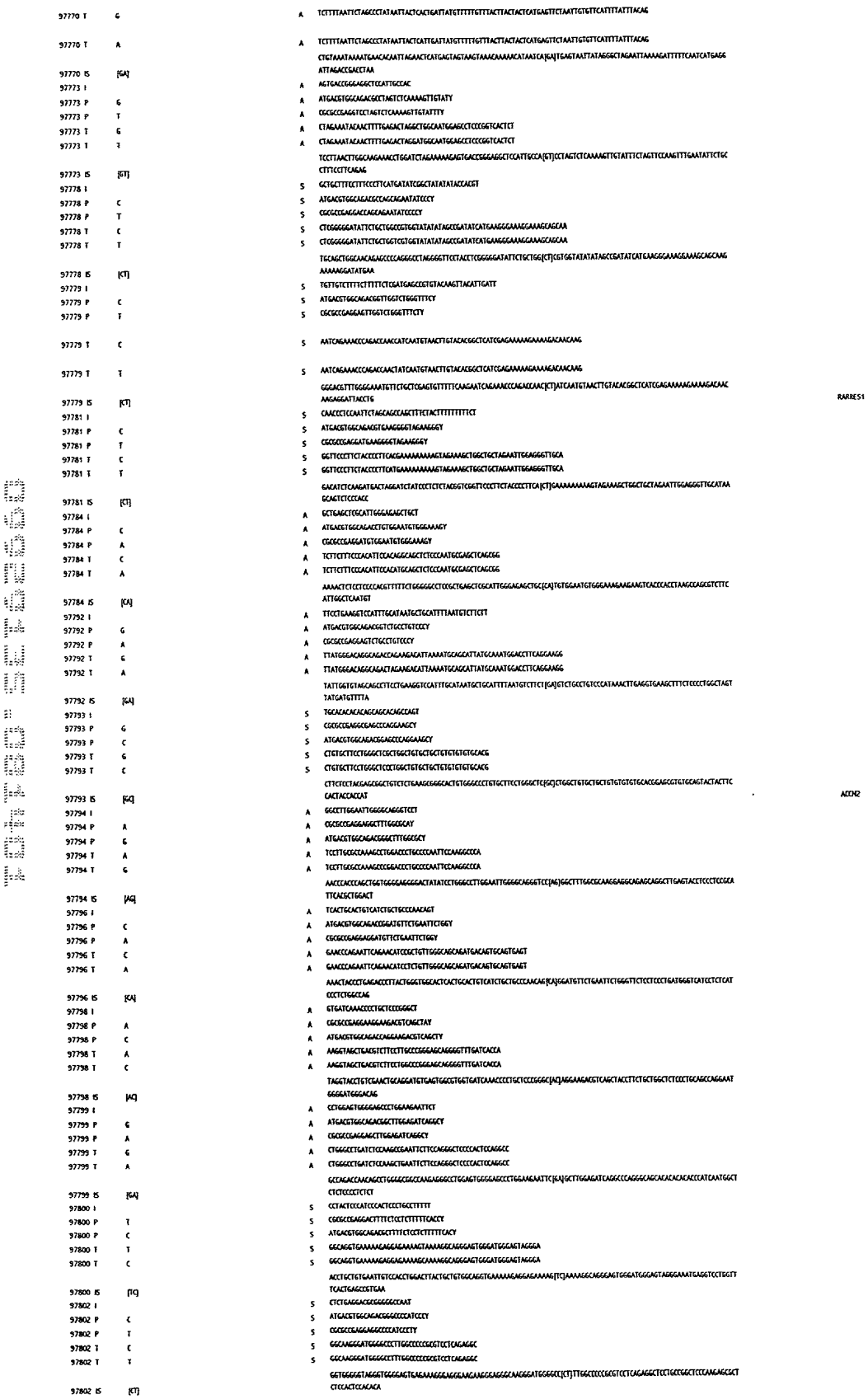


FIGURE 129C

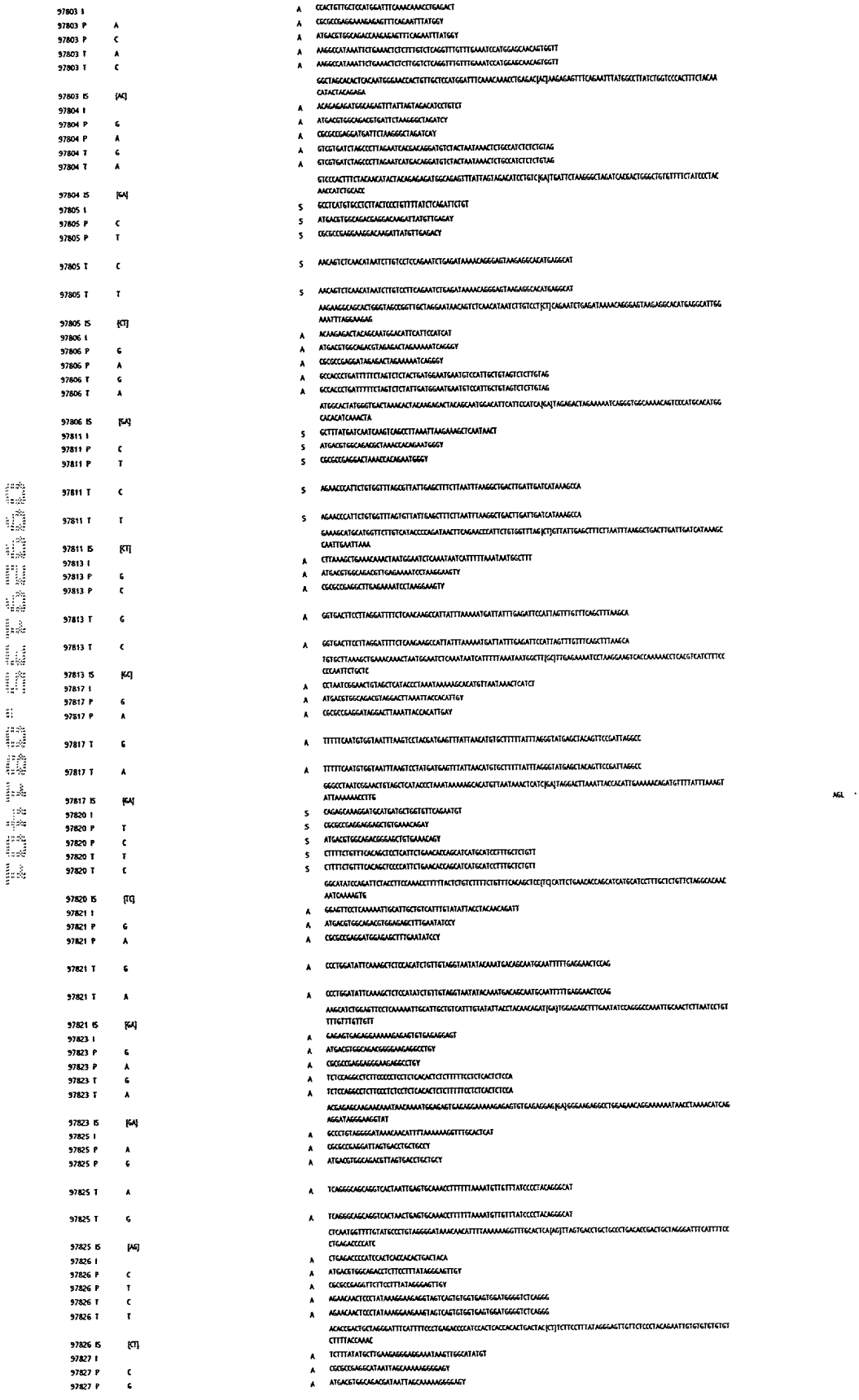


FIGURE 129C

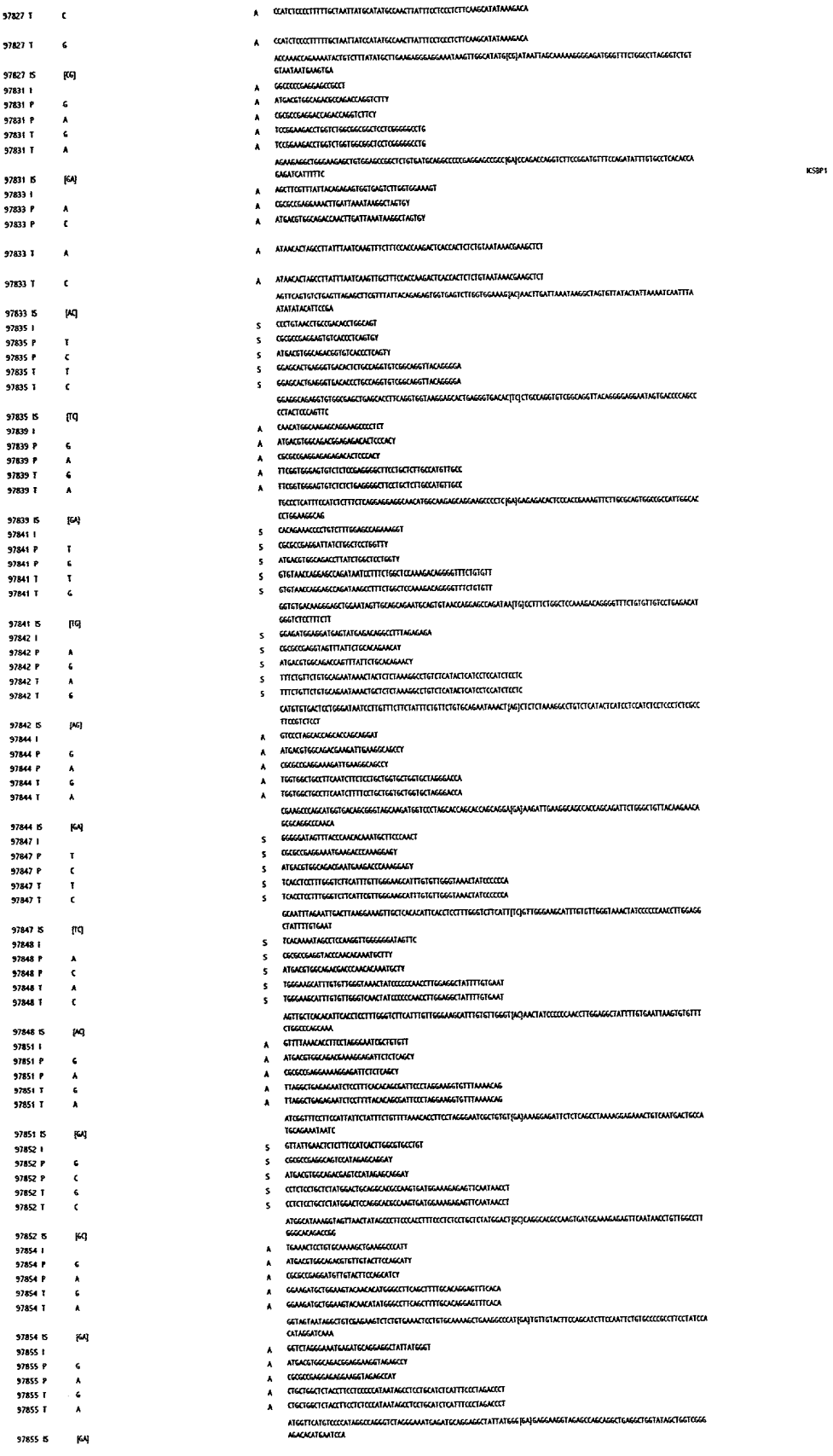

97827 T C A CCATCTCCCCTTTTTGCTAATTATGCATATGCCAACTTATTTCCTCCCTCTTCAAGCATATAAAGACA
97827 T G A CCATCTCCCCTTTTTGCTAATTATCCATATGCCAACTTATTTCCTCCCTCTTCAAGCATATAAAGACA
97827 IS (CG) ACCAAACCAGAAAATACTGTCTTTATATGCTTGAAGAGGAAGGAAATAAGTTGGCATATG[CG]ATAATTAGCAAAAAGGGGAGATGGGTTTCTGGCCTTAGGGTCTGT GTAATAATGAAGTGA
97831 I A GGCCCCCCAGGAGCCGCCT
97831 P G A ATGACGTGGCAGACGCCAGACCAGGTCTTY
97831 P A A CGCGCCCAGGACCAGACCAGGTCTTCY
97831 T G A TCCGGAAGACCTGGTCTGGCGGCGGCTCCTCGGGGGCCTG
97831 T A A TCCGGAAGACCTGGTCTGGTGGCGGCTCCTCGGGGGCCTG
97831 IS (GA) AGAAGAGGCTGGGAAGAGCTGTGGAGCCGGCTCTGTGATGCAGGCCCCCGAGGAGCCGGC[GA]CCAGACCAGGTCTTCCGGATGTTTCCAGATATTTGTGCCTCACACCA GAGATCATTTTC KSBP1
97833 I A AGCTTCGTTTATTACAGAGAGTGGTGAGTCTTGGTGGAAAGT
97833 P A A CGCGCCCAGGAAACTTGATTAAATAAGGCTAGTGY
97833 P C A ATGACGTGGCAGACCAACTTGATTAAATAAGGCTAGTGY
97833 T A A ATAACACTAGCCTTATTTAATCAAGTTTCTTTCCACCAAGACTCACCACTCTCTGTAATAAACGAAGCTCT
97833 T C A ATAACACTAGCCTTATTTAATCAAGTTGCTTTCCACCAAGACTCACCACTCTCTGTAATAAACGAAGCTCT
97833 IS (AC) AGTTCAGTGTCTGAGTTAGAGCTTGGTTTATTACAGAGAGTGGTGAGTCTTGGTGGAAAG[AC]AACTTGATTAAATAAGGCTAGTGTTATACTATTAAAATCAATTTA ATATATACATTCCGA
97835 I S CCCTGTAACCTGCCGACACCTGGCAGT
97835 P T S CGCGCCCAGGAGTGTCACCCTCAGTGY
97835 P C S ATGACGTGGCAGACGGTGTCACCCTCAGTY
97835 T T S GGAGCACTGAGGGTGACACCTGTGCCAGGTGTCGGCAGGTTACAGGGGA
97835 T C S GGAGCACTGAGGGTGACACCTGCCAGGTGTCGGCAGGTTACAGGGGA
97835 IS (TC) GGAGGCAGAGGTGTGGCGAGCTGAGCACCTTCAGGTGGTAAGGAGCACTGAGGGTGACAC[TC]CTGCCAGGTGTCGGCAGGTTACAGGGGAGGAATAGTGACCCCAGCC CCTACTCCCAGTTC
97839 I A CAACATGGCAAGAGCAGGAAGCCCCTCT
97839 P G A ATGACGTGGCAGACGGAGAGACACTCCCACY
97839 P A A CGCGCCCAGGAGAGAGACACTCCCACY
97839 T G A TTCGGTGGGAGTGTCTCTCCGAGGGGCTTCCTGCTCTTGCCATGTTGCC
97839 T A A TTCGGTGGGAGTGTCTCTCGAGGGGCTTCCTGCTCTTGCCATGTTGCC
97839 IS (GA) TGCCCTCATTTCCATCTCTTTCTCAGGAGGAGGCAACATGGCAAGAGCAGGAAGCCCCTC[GA]GAGAGACACTCCCACCGAAAGTTCTTGCGCAGTGGCGCCATTGGCAC CCTGGAAGGCAG
97841 I S CACAGAAACCCCTGTCTTTGGAGCCAGAAAGGT
97841 P T S CGCGCCCAGGATTATCTGGCTCCTGGTTY
97841 P G S ATGACGTGGCAGACCTTATCTGGCTCCTGGTY
97841 T T S GTGTAACCAGGAGCCAGATAATCTTTCTGGCTCCAAAGACAGGGGTTTCTGTGTT
97841 T G S GTGTAACCAGGAGCCAGATAAGCCTTTCTGGCTCCAAAGACAGGGGTTTCTGTGTT
97841 IS (TG) GGTGTGACAAGGGAGCTGGAATAGTTGCAGCAGAATGCAGTGTAACCAGGAGCCAGATAA[TG]CCTTTCTGGCTCCAAAGACAGGGGTTTCTGTGTTGTGCCTGAGACAT GGGTCTCCTTTCTT
97842 I S GGAGATGGAGGATGAGTATGAGACAGGCCTTTAGAGAGA
97842 P A S CGCGCCGAGGTAGTTTATTCTGCAGAGAACAT
97842 P G S ATGACGTGGCAGACCAGTTTATTCTGCAGAGAACY
97842 T A S TTTCTGTTCTGTGCAGAATAAACTACTCTCTAAAGGCCTGTCTCATACTCATCCTCCATCTCCTC
97842 T G S TTTCTGTTCTGTGCAGAATAAACTGCTCTCTAAAGGCCTGTCTCATACTCATCCTCCATCTCCTC
97842 IS (AG) CATGTGTGACTCCTGGGATAATCCTTGTTTCTTCTATTTCTGTTCTGTGCAGAATAAACT[AG]CTCTCTAAAGGCCTGTCTCATACTCATCCTCCATCTCCTCCCTCTCGCC TTCCGTCTCCT
97844 I A GTCCCTAGCACCAGCACCAGCAGGAT
97844 P G A ATGACGTGGCAGACGAAGATTGAAGGCAGCCY
97844 P A A CGCGCCGAGGAAGATTGAAGGCAGCCY
97844 T G A TGGTGGCTGCCTTCAATCTTCCTCCTGCTGGTGCTGGTGCTAGGGACCA
97844 T A A TGGTGGCTGCCTTCAATCTTTCCTGCTGGTGCTGGTGCTAGGGACCA
97844 IS (GA) CGAAGCCCAGCATGGTGACAGCGGGTAGCAAGATGGTCCCTAGCACCAGCACCAGCAGGA[GA]AAGATTGAAGGCAGCCCACCAGCAGATTCTGGGCTGTTACAAGAACA GCGCAGGCCCAACA
97847 I S GGGGGATAGTTTACCCAACACAAATGCTTCCCAACT
97847 P T S CGCGCCGAGGAAATGAAGACCCAAAGGAGY
97847 P C S ATGACGTGGCAGACGAATGAAGACCCAAAGGAGY
97847 T T S TCACCTCCTTTGGGTCTTCATTTGTTGGGAAGCATTTGTGTTGGGTAAACTATCCCCCCA
97847 T C S TCACCTCCTTTGGGTCTTCATTCGTTGGGAAGCATTTGTGTTGGGTAAACTATCCCCCCA
97847 IS (TC) GCAATTTAGAATTGACTTAAGGAAAGTTGCTCACACATTCACCTCCTTTGGGTCTTCATTT[TC]GTTGGGAAGCATTTGTGTTGGGTAAACTATCCCCCCAACCTTGGAGG CTATTTTGTGAAT
97848 I S TCACAAATAGCCTCCAAGGTTGGGGGGGATAGTTC
97848 P A S CGCGCCGAGGTACCCAACACAAATGCTTY
97848 P C S ATGACGTGGCAGACGACCCAACACAAATGCTY
97848 T A S TGGGAAGCATTTGTGTTGGGTAAACTATCCCCCCAACCTTGGAGGCTATTTTGTGAAT
97848 T C S TGGGAAGCATTTGTGTTGGGTCAACTATCCCCCCAACCTTGGAGGCTATTTTGTGAAT
97848 IS (AC) AGTTGCTCACACATTCACCTCCTTTGGGTCTTCATTTGTTGGGAAGCATTTGTGTTGGGT[AC]AACTATCCCCCCAACCTTGGAGGCTATTTTGTGAATTAAGTGTGTTT CTGGCCCAGCAAA
97851 I A GTTTTAAACACCTTCCTAGGGAATCGCTGTGTT
97851 P G A ATGACGTGGCAGACGAAAGCAGATTCTCTCAGCY
97851 P A A CGCGCCCAGGAAAAGGAGATTCTCTCAGCY
97851 T G A TTAGGCTGAGAGAATCTCCTTTCACACAGCGATTCCCTAGGAAGGTGTTTAAAACAG
97851 T A A TTAGGCTGAGAGAATCTCCTTTTACACAGCGATTCCCTAGGAAGGTGTTTAAAACAG
97851 IS (GA) ATCGGTTTCCTTCCATTATTCTATTTCTGTTTTAAACACCTTCCTAGGGAATCGCTGTGTTGA[GA]AAAGGAGATTCTCTCAGCCTAAAGGAGAAACTGTCAATGACTGCCA TGCAGAAATAATC
97852 I S GTTATTGAACTCTCTTTCCATCACTTGGCGTGCCTGT
97852 P G S CGCGCCGAGGCAGTCCATAGAGCAGGAY
97852 P C S ATGACGTGGCAGACGAGTCCATAGAGCAGGAY
97852 T G S CCTCTCCTGCTCTATGGACTCGAGGCACGCCAAGTGATGGAAAGAGAGTTCAATAACCT
97852 T C S CCTCTCCTGCTCTATGGACTCCAGGCACGCCAAGTGATGGAAAGAGAGTTCAATAACCT
97852 IS (GC) ATGGCATAAAGGTAGTTAACTATAGCCCTTCCCACCTTTCCCTCTCCTGCTCTATGGACT[GC]CAGGCACGCCAAGTGATGGAAAGAGAGTTCAATAACCTGTTGGCCTT GGGCACAGACCGG
97854 I A TGAAACTCCTGTGCAAAAGCTGAAGGCCCATT
97854 P G A ATGACGTGGCAGACGTGTTGTACTTCCAGCATY
97854 P A A CGCGCCGAGGATGTTGTACTTCCAGCATCY
97854 T G A GGAAGATGCTGGAAGTACAACACATGGGCCTTCAGCTTTTGCACAGGAGTTTCACA
97854 T A A GGAAGATGCTGGAAGTACAACATATGGGCCTTCAGCTTTTGCACAGGAGTTTCACA
97854 IS (GA) GGTAGTAATAGGCTGTGAGAAGTCTCTGTGAAACTCCTGTGCAAAAGCTGAAGGCCCATTGA[GA]TGTTGTACTTCCAGCATCTTCCAATTCTGTGCCCCGCCTTCCTATCCA CATAGGATCAAA
97855 I A GGTCTAGGGAAATGAGATGCAGGAGGCTATTATGGGT
97855 P G A ATGACGTGGCAGACGGAGGAAGGTAGAGCCAY
97855 P A A CGCGCCGAGGAGAGGAAGGTAGAGCCAY
97855 T G A CTGCTGGCTCTACCTTCCTCCCCATAATAGCCTCCTGCATCTCATTTCCCTAGACCCT
97855 T A A CTGCTGGCTCTACCTTCCTCTCCCATAATAGCCTCCTGCATCTCATTTCCCTAGACCCT
97855 IS (GA) ATGGTTCATGTCCCCATAGGCCAGGGTCTAGGGAAATGAGATGCAGGAGGCTATTATGGG[GA]GAGGAAGGTAGAGCCAGCAGGCTGAGGCTGGTATAGCTGGTCGGG AGACACATGAATCCA

FIGURE 129C

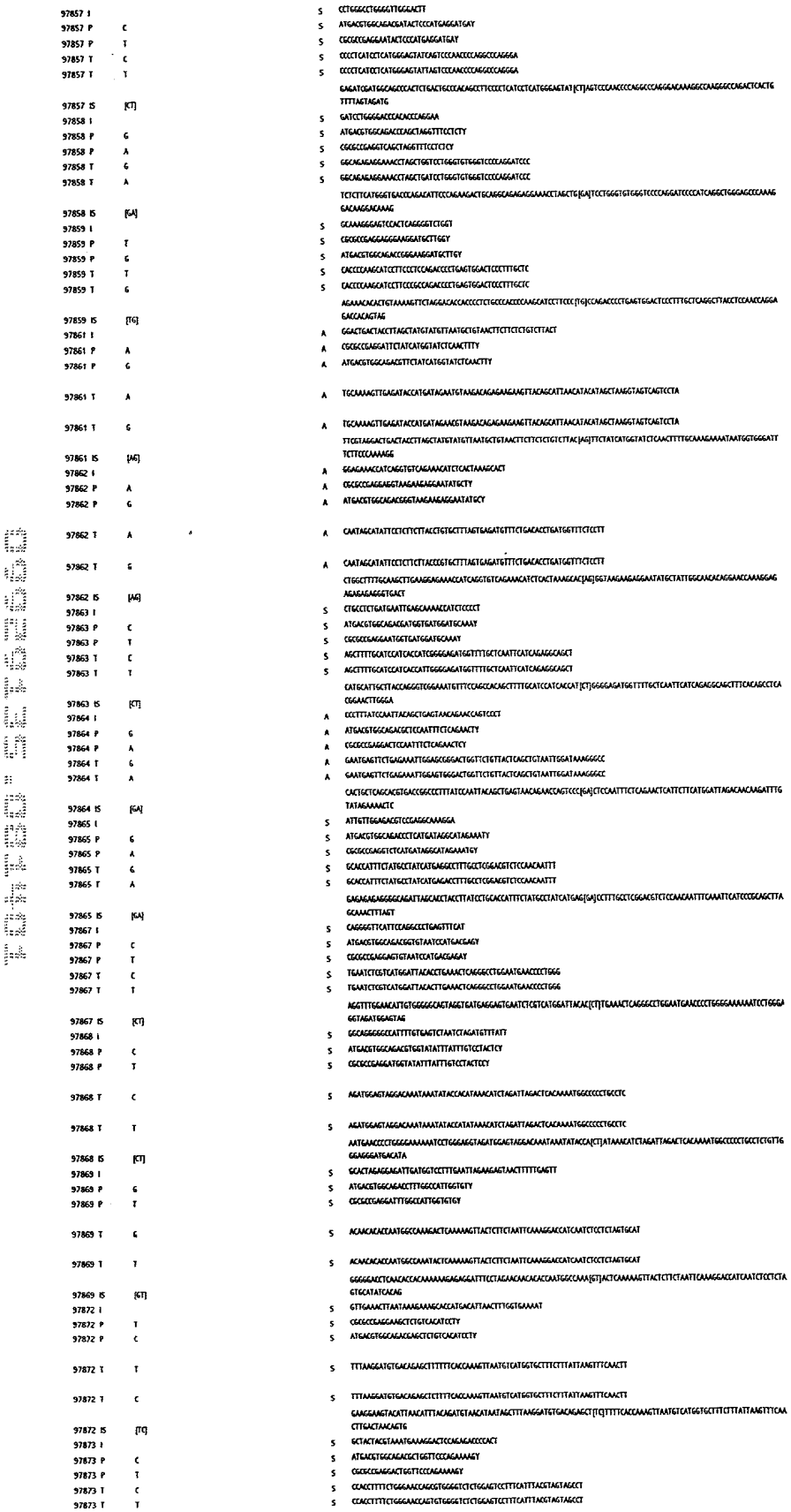


FIGURE 129C

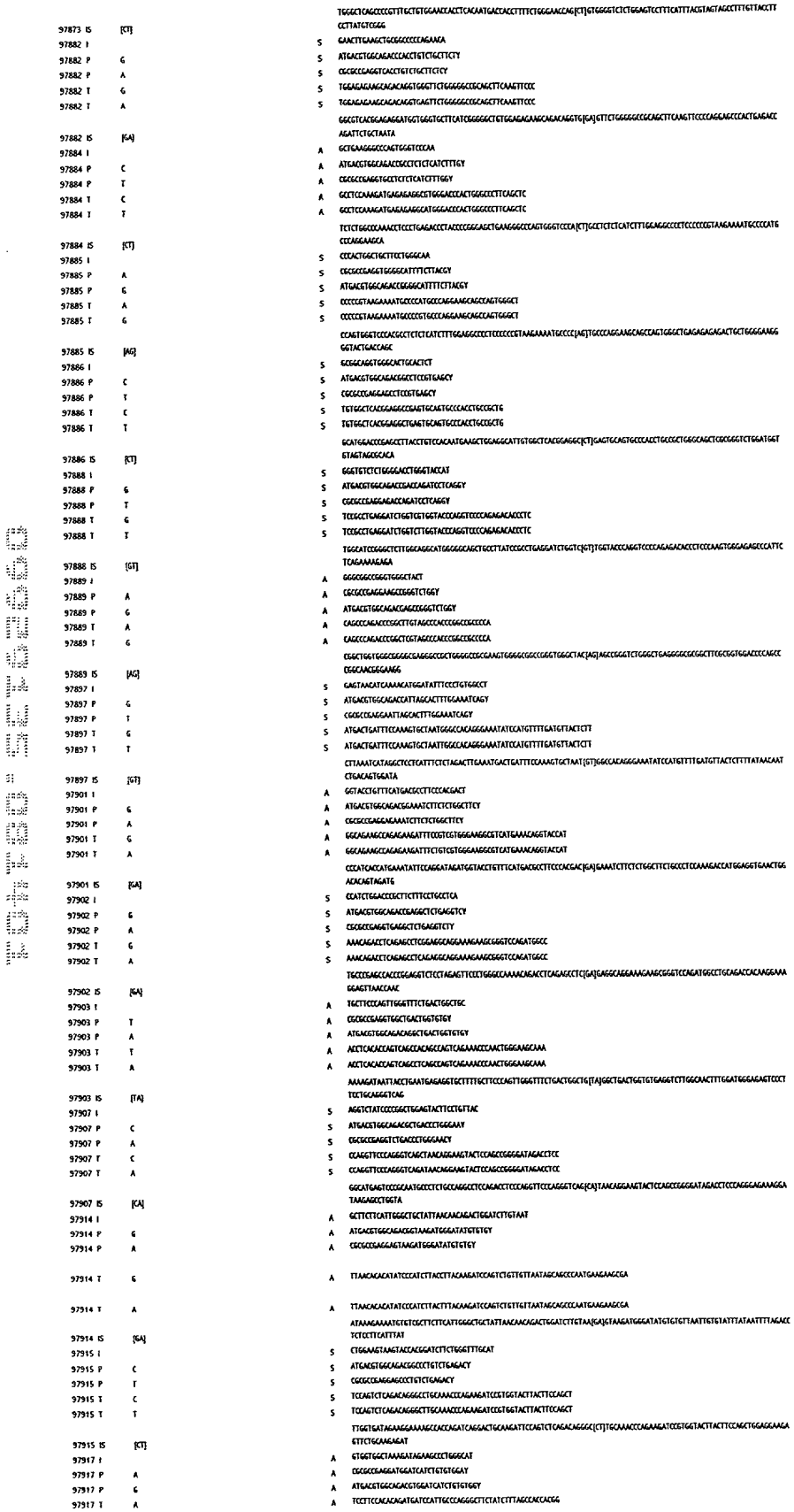
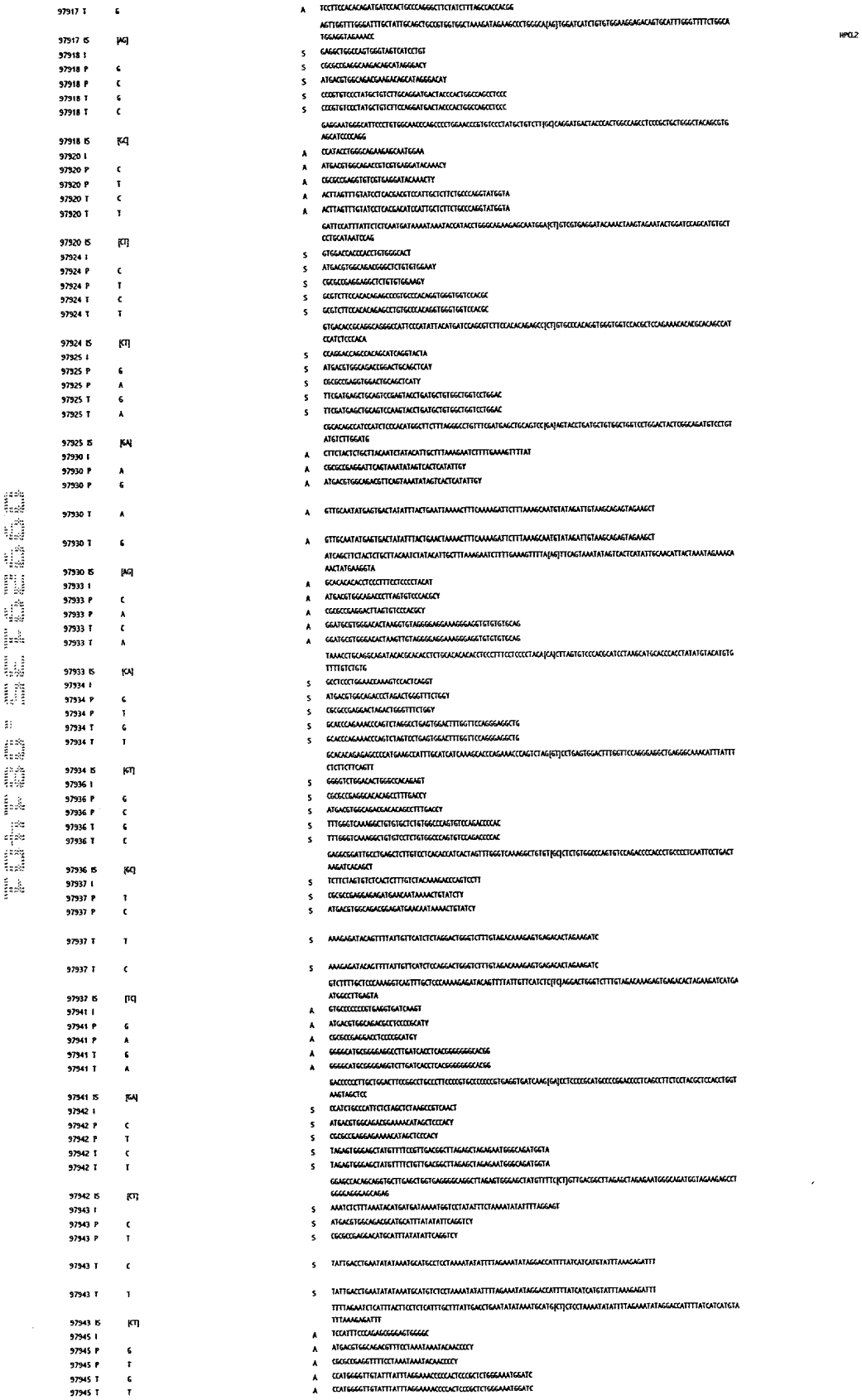
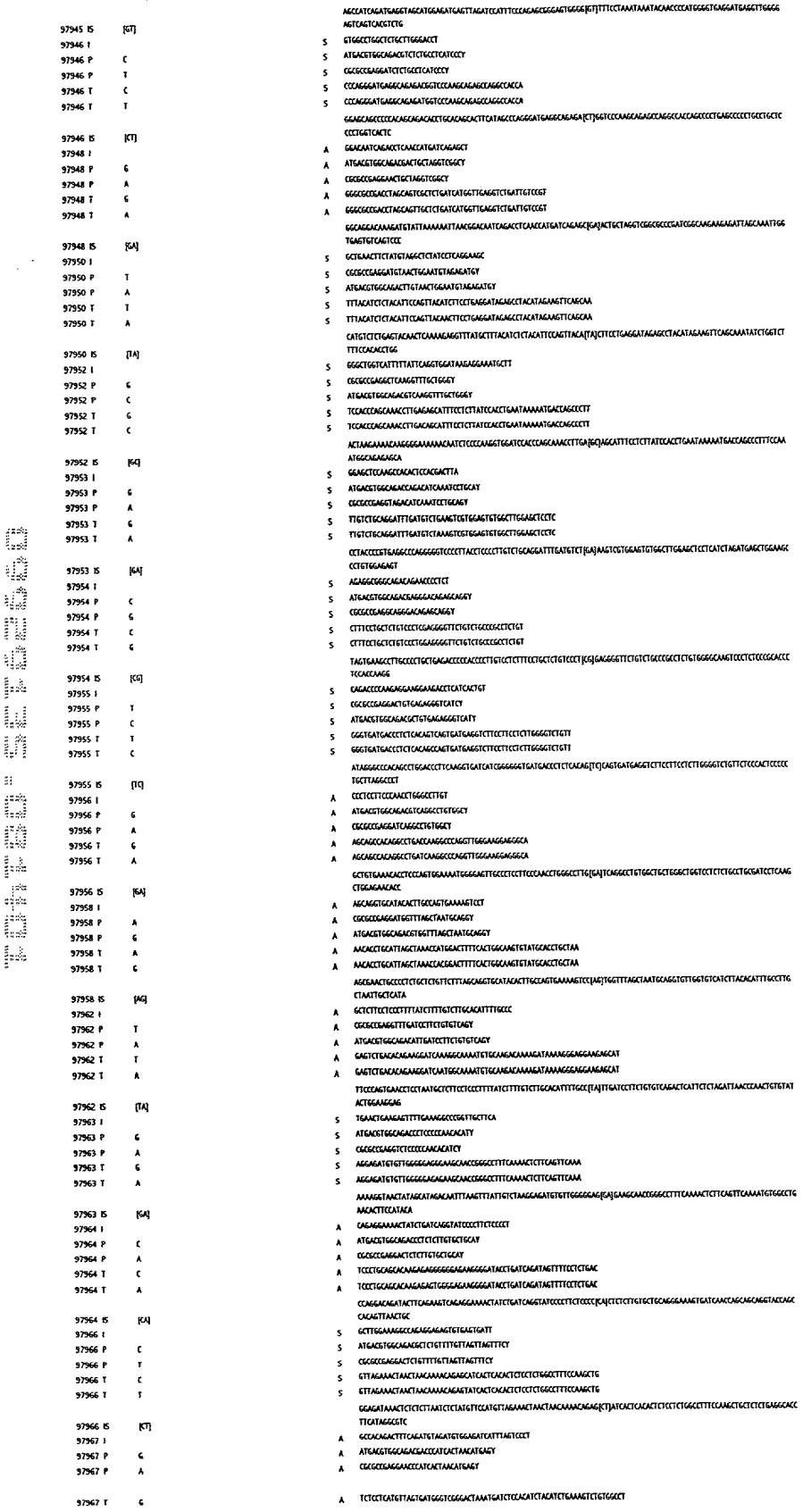
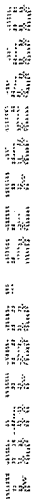


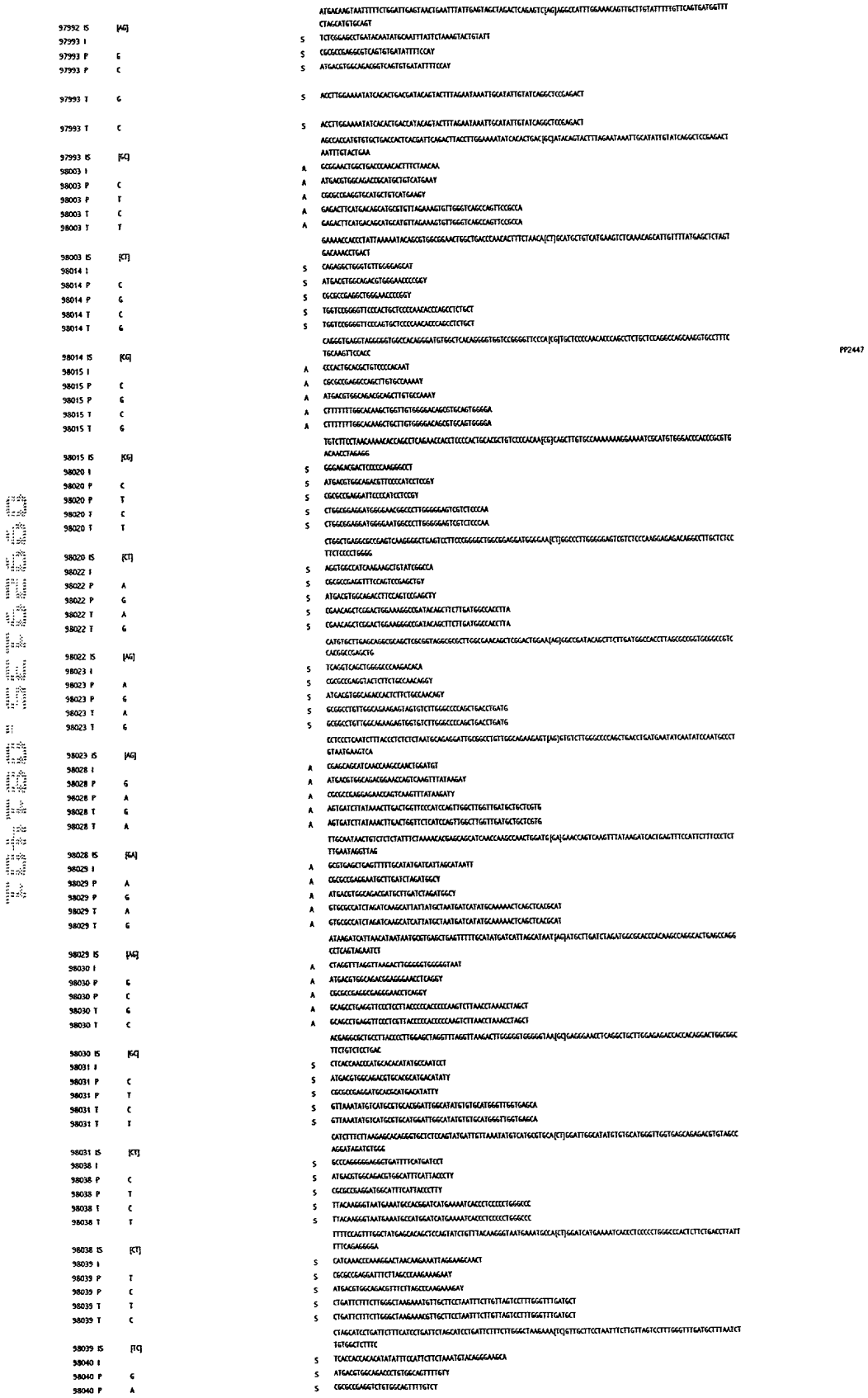
FIGURE 129C



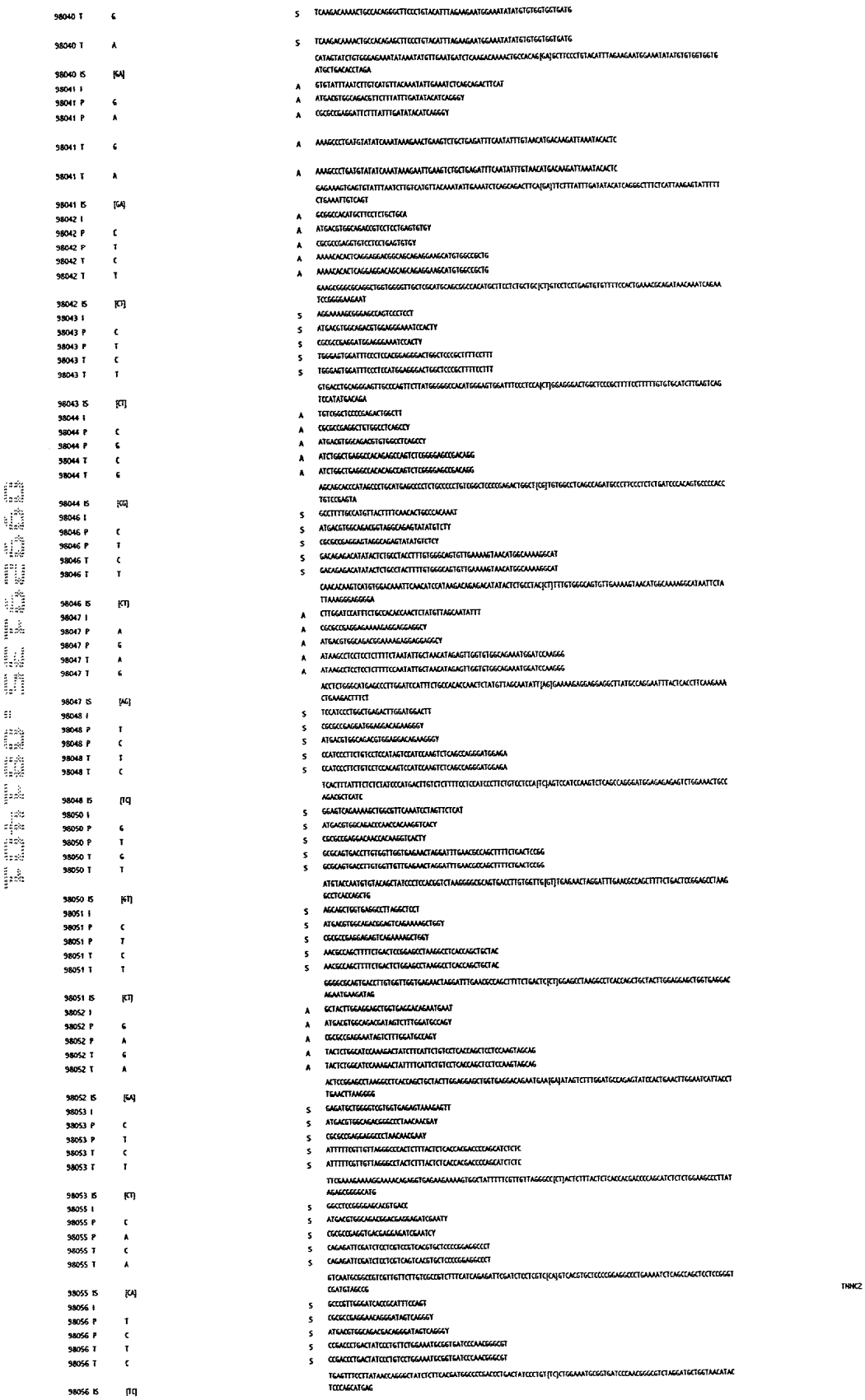


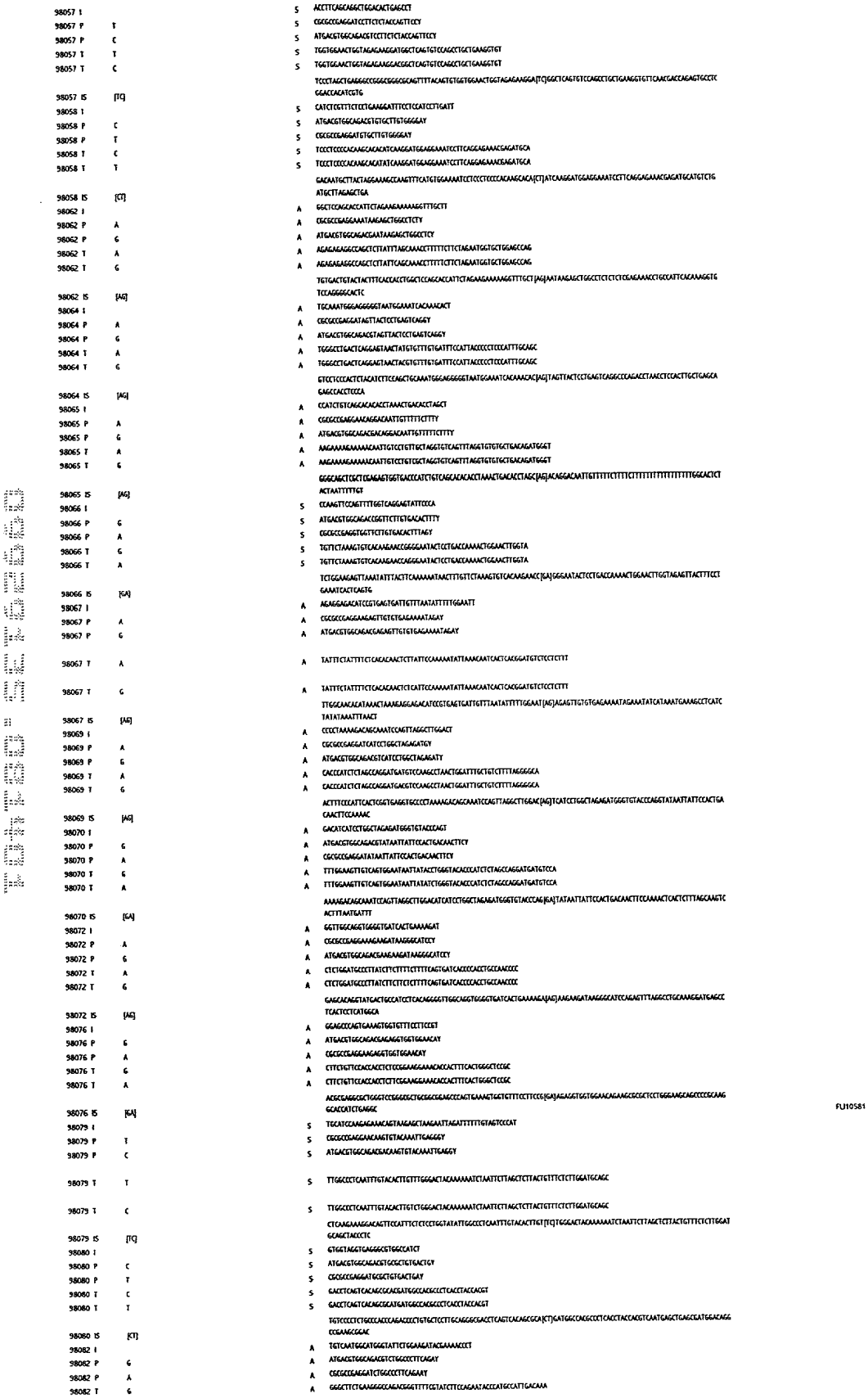


97967 T	A	A	TCTCCTCATGTTAGTGATGGGTTGGGACTAAATGATCTCCACATCTACATCTGAAAGTCTGTGGGCCT	
97967 IS	[GA]		GCTTGGAGAAGGTAGAAGGCCACAGACTTTCAGATGTAGATGTGGAGATCATTTAGTCCC[GA]ACCCATCACTAACATGAGGAGACTGAGACTGATGTGGTAATTAAGG GAAGAGGCTAAAGT	
97968 I		A	CTGTTCAATCTGCTCAAATTCTTTCCCCTCATCTGTGTAACAT	
97968 P	A	A	CGCCCGAGGAAAGAAGAATTTGACTATGAAGTTGY	
97968 P	G	A	ATGAGTGGCAGACGAAGAAGAATTTGACTATGAAGTTY	
97968 T	A	A	AAACCAACTTCATAGTCAAATTCTTCTTTTGTTACACAGATGAGGGGAAAGAATTTGAGCAGATTGAACAGCT	
97968 T	G	A	AAACCAACTTCATAGTCAAATTCTTCTTCTGTTACACAGATGAGGGGAAAGAATTTGAGCAGATTGAACAGCT	
97968 IS	[AG]		AAAAAATAATACTTACAGCTGTTCAATCTGCTCAAATTCTTTCCCCTCATCTGTGTAACA[AG]AAGAAGAATTTGACTATGAAGTTGGTTTGTCATTTTTATTGAAACGT ATATGCTCAATTAA	
97975 I		S	GGCAGAGAGGCTGGCAGAGACCTACTGAT	
97975 P	T	S	CGCGCCGAGGAGCCATTTGTGAGAGCY	
97975 P	C	S	ATGAGGTGGCAGACGGCCATTTGTGAGAGCY	
97975 T	T	S	GGTTGCTCTCACAAATGGCTTCAGTAGGTCTCTGCCAGCCTCTCTGCCTG	
97975 T	C	S	GGTTGCTCTCACAAATGGGCTCAGTAGGTCTCTGCCAGCCTCTCTGCCTG	
97975 IS	[TC]		CACGTAGGATTAAAGTTAAGTCAACGTCACTGCACCTGAAGGGTTGCTCTCACAAATGGC[TC]TCAGTAGGTCTCTGCCAGCCTCTCTGCCTGGGGCCTGCCAGGTAGCCCC GACCCTCCAGGT	
97976 I		S	ACTGTCCCACCCCCAAATCATCTATATTGTTGCATGTT	
97976 P	T	S	CGCGCCGAGGACTTAGCTTTGTGCCTTGY	
97976 P	C	S	ATGACGTGGCAGACGCTTAGCTTTGTGCCTTY	
97976 T	T	S	AATTCAAGGCACAAAGCTAAGTACATGCAACAATATAGATGATTTGGGGGTGGGACAGTAC	
97976 T	C	S	AATTCAAGGCACAAAGCTAAGCACATGCAACAATATAGATGATTTGGGGGTGGGACAGTAC	
97976 IS	[TC]		TAAAAATACCATCTGAGTGCAAGATAAAAAGGAAATAGCAATTCAAGGCACAAAGCTAAG[TC]ACATGCAACAATATAGATGATTTGGGGGTGGGACAGTACAGAATT CAGAACTGATAGAAG	
97980 I		S	GGCTGGGTCAGTTTCCCACCTGTGGA	
97980 P	A	S	CGCGCCGAGGTCCAGTCAGCTGTGGY	
97980 P	G	S	ATGACGTGGCAGACCCCAGTCAGCTGTGGY	
97980 T	A	S	CTGGCCACAGCTGACTGGACCACAGGTGGGAAACTGACCCAGCCGG	
97980 T	G	S	CTGGCCACAGCTGACTGGGCCACAGGTGGGAAACTGACCCAGCCGG	
97980 IS	[AG]		GGTGGTGCAGCAGCTGTTTTTATACTATGTGACCTTATCTTCCTGGCCACAGCTGACTGG[AG]CCACAGGTGGGAAACTGACCCAGCCGGCCAGTCTCTCCTCTGGCTTT GGCATTGGGATA	
97981 I		S	GTCTTTTCAATTCCAAGTTTCAGAAGGCTACTAGGTTAAGTAAAAAC	
97981 P	T	S	CGCGCCGAGGATGAACACTTATTATGAGATTATGGY	
97981 P	A	S	ATGACGTGGCAGACTTGAACACTTATTATGAGATTATGGY	
97981 T	T	S	ACCCCCATAATCTCATAATAAGTGTTCATTTTTTACTTAACCTAGTAGCCTTCTGAAACTTGGAATTGAAAAGACTA	
97981 T	A	S	ACCCCCATAATCTCATAATAAGTGTTCAATTTTTACTTAACCTAGTAGCCTTCTGAAACTTGGAATTGAAAAGACTA	
97981 IS	[TA]		CTCCTCCCCCCCTTCACCTTTACCTTTGAGATACCCCCATAATCTCATAATAAGTGTTCA[TA]TTTTTACTTAACCTAGTAGCCTTCTGAAACTTGGAATTGAAAAGACTA TGTCTATAGCCC	
97982 I		S	CTGGGGCAACGCGTCCCACCTCA	
97982 P	A	S	CGCGCCGAGGTTTCTAATTTGCTGCATTCAAAT	
97982 P	G	S	ATGACGTGGCAGACCTTCTAATTTGCTGCATTCAAY	
97982 T	A	S	TTTGTTTGAATGCAGCAAATTAGAAAGAGGTGGGACGCGTTGCCCCAGGC	
97982 T	G	S	TTTGTTTGAATGCAGCAAATTAGAAAGAGGTGGGACGCGTTGCCCCAGGC	
97982 IS	[AG]		TTATGTCACCAGTAACGTAGGTGGTAAAACAAACATTTGTTTGAATGCAGCAAATTAGAAA[AG]GAGGTGGGACGCGTTGCCCCAGGCCACCAATACTAAGAGCAGCGAT ACACAAATAGCCCA	
97983 I		A	ACTGGAAGAAGAACTAGCTGCTGCTAATCAGGAGGTAACT	
97983 P	C	A	ATGACGTGGCAGACCTGCCACACTTTCTCCY	
97983 P	A	A	CGCGCCGAGGATGCCACACTTTCTCCTY	
97983 T	C	A	AAAGAGGAGAAAGTGTGGCAGGTTACCTCCTGATTAGCAGCAGCTAGTTCTTCTTCCAGTGC	
97983 T	A	A	AAAGAGGAGAAAGTGTGGCATGTTACCTCCTGATTAGCAGCAGCTAGTTCTTCTTCCAGTGC	
97983 IS	[CA]		TTCTTTAGAAAGAGTCTCTGCACTGGAAGAAGAACTAGCTGCTGCTAATCAGGAGGTAAC[CA]TGCCACACTTTCTCCTCTTTGAGGTGCAATATCGCTGACATTACAT CCCTTGTGTTTCA	
97984 I		S	TGGACTTCACACGGGAGGAACAGGGTACTTGT	
97984 P	G	S	CGCGCCGAGGCAACCCTGCTCAGAGGY	
97984 P	C	S	ATGACGTGGCAGACGAACCCTGCTCAGAGGY	
97984 T	G	S	GGGTCCTCTGAGCAGGGTTGCAAGTACCCTGTTCCTCCCGGTGTGAAGTCCACA	
97984 T	C	S	GGGTCCTCTGAGCAGGGTTCCAAGTACCCTGTTCCTCCCGGTGTGAAGTCCACA	
97984 IS	[GC]		GACTAGGTCCCTGTGGTTCTCCAGGATCACATCTCTGTCCAGGGTCCTCTGAGCAGGGTTT[GC]CAAGTACCCTGTTCCTCCCGGTGTGAAGTCCACAGTCACAATTTTGAAG TTCACTCCTTCC	ZNF180
97985 I		A	CTTTGGGTTATCTCTACTCATATGTTTACAATCTTGGTTTATAAACTTTGTTTAT	
97985 P	A	A	CGGCCGAGGAGATTCCAGCTATTAAATCTGGY	
97985 P	G	A	ATGACGTGGCAGACGGATTCCAGCTATTAAATCTGGY	
97985 T	A	A	ATATCCAGATTTAATAGCTGGAATCTTAAACAAAGTTTATAAACCAAGATTGTAAACATATGAGTAAGAGATAACCCAAAGGT	
97985 T	G	A	ATATCCAGATTTAATAGCTGGAATCCTAAACAAAGTTTATAAACCAAGATTGTAAACATATGAGTAAGAGATAACCCAAAGGT	
97985 IS	[AG]		GTTAACCTTTGGGTTATCTCTACTCATATGTTTACAATCTTGGTTTATAAACTTTGTTTA[AG]GATTCCAGCTATTAAATCTGGATATAAGGGCTGGGGAGTTTACTTGG TACTGGGTCATAAT	
97986 I		A	GCTTTTAACGTTCAGCCTCCCCAAGAAAGCCAGT	
97986 P	A	A	CGGCCGAGGATGTCAGGGCAGAAGAY	
97986 P	G	A	ATGACGTGGCAGACGTGTCAGGGCAGAAGAY	
97986 T	A	A	GCGGTCTCTCGCCCTGACACTCTGGCTTTCGTCGGGAAGGCTGAACGTTAAAAGCTG	
97986 T	G	A	GCGGTCTCTCGCCCTGACACCTGGCTTTCGTCGGGAAGGCTGAACGTTAAAAGCTG	
97986 IS	[AG]		TCACTGATGGCGGCTCATAGGGAGCCAGCTTTTAACGTTCAGCCTCCCGAAGAAAGCCAG[AG]TGTCAGGGCAGAAGACCGCCATTCTTGCCAGTACACCTGCCAGCCTA CAGAGGAAGCCAG	
97988 I		S	AGTACCTTTTTAGCATGTCCATTTCCTTTTACTCTTCTT	
97988 P	C	S	ATGACGTGGCAGACGTATTTTAGGCCATGCTGTY	
97988 P	G	S	CGCGCCGAGGCTATTTTAGGCCATGCTGTY	
97988 T	C	S	CATGACAGCATGGCCTAAAATACAGAAGGAGTAAAAGGAAATGGACATGCTAAAAAGGTACTGA	
97988 T	G	S	CATGACAGCATGGCCTAAAATAGAGAAGGAGTAAAAGGAAATGGACATGCTAAAAAGGTACTGA	
97988 IS	[CG]		CTGGTATCTTCCGGGTCATTGAGAAGAAGCCACTTTCTCATGACAGCATGGCCTAAAATA[CG]AGAAGGAGTAAAAGGAAATGGACATGCTAAAAAGGTACTGATAAGT CTGTGATTCCTCTG	
97989 I		A	CAGGTGAAGTCTGACTCACAGAACTCCCAGCATT	
97989 P	A	A	CGCGCCGAGGATACAAATGCAAGAATTTATAGTCCY	
97989 P	G	A	ATGACGTGGCAGACGTACAAATGCAAGAATTTATAGTCCY	
97989 T	A	A	ACTTGGACTATAAATTCTTGCATTTGTATATGCTGGGAGTTCTGTGAGTCAGACTTCACCTGAA	
97989 T	G	A	ACTTGGACTATAAATTCTTGCATTTGTACATGCTGGGAGTTCTGTGAGTCAGACTTCACCTGAA	
97989 IS	[AG]		TACCCCCAAGATACTCTTAGAATTATTCAGGTGAAGTCTGACTCACAGAACTCCCAGCAT[AG]TACAAATGCAAGAATTTATAGTCCAAGTTTGTTGTAAGTAATGGATC AGTGCACATCTGG	
97992 I		A	TGGATTGACTAACTGAATTTATTGAGTAGCTAGACTCAGAGTCT	
97992 P	A	A	CGCGCCGAGGAAGGCCATTTGGAAACAY	
97992 P	G	A	ATGACGTGGCAGACGAGGCCATTTGGAAACAY	
97992 T	A	A	CAACTGTTTCCAAATGGCCTTGACTCTGAGTCTAGCTACTCAATAAATTCAGTTACTCAATCCAGA	
97992 T	G	A	CAACTGTTTCCAAATGGCCTCGACTCTGAGTCTAGCTACTCAATAAATTCAGTTACTCAATCCAGA	


ATGACAAGTAATTTTTCTGGATTGAGTAACTGAATTTATTGAGTAGCTAGACTCAGAGTC[AG]AGGCCATTTGGAAACAGTTGCTTGTATTTTTGTTCAGTGATGGTTT
CTAGCATGTGCAGT
97992 IS [AG]
97993 I
S TCTGGGAGCCTGATACAATATGCAATTTATTCTAAAGTACTGTATT
97993 P G
S CGCGCCGAGGCGTCAGTGTGATATTTTCCAY
97993 P C
S ATGACGTGGCAGACGGTCAGTGTGATATTTTCCAY
97993 T G
S ACCTTGGAAAATATCACACTGACGATACAGTACTTTAGAATAAATTGCATATTGTATCAGGCTCCGAGACT
97993 T C
S ACCTTGGAAAATATCACACTGACGATACAGTACTTTAGAATAAATTGCATATTGTATCAGGCTCCGAGACT
AGCCACCATGTGTGCTGACCACTCACGATTCAGACTTACCTTGGAAAATATCACACTGAC[GC]ATACAGTACTTTAGAATAAATTGCATATTGTATCAGGCTCCGAGACT
AATTTGTACTGAA
97993 IS [GC]
98003 I
A GCGGAACTGGCTGACCCAACACTTTCTAACAA
98003 P C
A ATGACGTGGCAGACCGCATGCTGTCATGAAY
98003 P T
A CGGGCCGAGGTGCATGCTGTCATGAAGY
98003 T C
A GAGACTTCATGACAGCATGCGTGTTAGAAAGTGTTGGGTCAGCCAGTTCCGCCA
98003 T T
A GAGACTTCATGACAGCATGCATGTTAGAAAGTGTTGGGTCAGCCAGTTCCGCCA
GAAAACCACCCTATTAAAAATACAGCGTGGCGGAACTGGCTGACCCAACACTTTCTAACA[CT]GCATGCTGTCATGAAGTCTCAAACAGCATTGTTTTATGAGCTCTAGT
GACAAACCTGACT
98003 IS [CT]
98014 I
S CAGAGGCTGGGTGTTGGGGAGCAT
98014 P C
S ATGACGTGGCAGACGTGGGGAAGCCCGGY
98014 P G
S CGCGCCGAGGCTGGGAACCCGGY
98014 T C
S TGGTCCGGGGTTCCCACTGCTCCCCAACACCCAGCCTCTGCT
98014 T G
S TGGTCCGGGGTTCCCAGTGCTCCCCAACACCCAGCCTCTGCT
CAGGGTGAGGTAGGGGGTGGCCACAGGGATGTGGCTCACAGGGGTGGTCCGGGGTTCCCA[CG]TGCTCCCCAACACCCAGCCTCTGCTCCAGGCCAGCAAGGTGCCTTTC
TGCAAGTTCCACC
98014 IS [CG]
98015 I
A CCCACTGCACGCTGTCCCCACAAT
98015 P C
A CGCGCCGAGGCCAGCTTGTGCCAAAAY
98015 P G
A ATGACGTGGCAGACGCAGCTTGTGCCAAAY
98015 T C
A CTTTTTTTGGCACAAGCTGGTTGTGGGGACAGCGTGCAGTGGGGA
98015 T G
A CTTTTTTTGGCACAAGCTGCTTGTGGGGACAGCGTGCAGTGGGGA
TGTCTTCCTAACAAAACACAGCCTCAGAACCACCTCCCCACTGCACGCTGTCCCCACAA[CG]CAGCTTGTGCCAAAAAAAGGAAAATCGCATGTGGGACCCACCCGCGTG
ACAACCTAGAGG
98015 IS [CG]
98020 I
S GGGAGACGACTCCCCCAGGGCCT
98020 P C
S ATGACGTGGCAGACGTTCCCCATCCTCCGY
98020 P T
S CGCGCCGAGGATTCCCCATCCTCCGY
98020 T C
S CTGGCGGAGGATGGGGAACGGCCCTTGGGGGAGTCGTCTCCCAA
98020 T T
S CTGGCGGAGGATGGGGAATGGCCCTTGGGGGAGTCGTCTCCCAA
CTGGCTGAGCGCCGAGTCAAGGGGCTGAGTCCTTCCCGGGGCTGGCGGAGGATGGGGAA[CT]GGCCCTTGGGGGAGTCGTCTCCCAAGGAGAGACAGGCCTTGCTCTCC
TTCTCCCCTGGGG
98020 IS [CT]
98022 I
S AGGTGGCCATCAAGAAGCTGTATGGCCA
98022 P A
S CGCGCCGAGGTTTCCAGTCCGAGCTGY
98022 P G
S ATGACGTGGCAGACCTTCCAGTCCGAGCTY
98022 T A
S CGAACAGCTCGGACTGGAAAGGCCGATACAGCTTCTTGATGGCCACCTTA
98022 T G
S CGAACAGCTCGGACTGGAAGGGCCGATACAGCTTCTTGATGGCCACCTTA
CATGTGCTTGAGCAGGCGCAGCTCGCGGTAGGCGCGCTTGGCGAACAGCTCGCACTGGAA[AG]GGCCGATACAGCTTCTTGATGGCCACCTTAGCGCCGGTGGGGCCGTC
CACGGCCGAGCTG
98022 IS [AG]
98023 I
S TCAGGTCAGCTGGGGCCCAAGACACA
98023 P A
S CGCGCCCAGGTACTCTTCTGCCAACAGGY
98023 P G
S ATGACGTGGCAGACCACTCTTCTGCCAACAGY
98023 T A
S GCGGCCTGTTGGCAGAAGAGTAGTGTCTTGGCCCCAGCTGACCTGATG
98023 T G
S GCGGCCTGTTGGCAGAAGAGTGGTGTCTTGGCCCCAGCTGACCTGATG
ECTCCCTCAATCTTTACCCTCTCTCTAATGCAGCAGGATTGCGGCCTGTTGGCAGAAGAGTGGTGTCTTGGGCCCCAGCTGACCTGATGAATATCAATATCCAATGCCCT
GTAATGAAGTCA
98023 IS [AG]
98028 I
A CGAGCAGCATCAACCAAGCCAACTGGATGT
98028 P G
A ATGACGTGGCAGACGGAACCAGTCAAGTTTATAAGAT
98028 P A
A CGCGCCCAGGAGAACCAGTCAAGTTTATAAGATY
98028 T G
A AGTGATCTTATAAACTTGACTGGTTCCCATCCAGTTGGCTTGGTTGATGCTGCTCGTG
98028 T A
A AGTGATCTTATAAACTTGACTGGTTCTCATCCAGTTGGCTTGGTTGATGCTGCTCGTG
TTGCAATAACTGTCTCTCTATTTCTAAAACACGAGCAGCATCAACCAAGCCAACTGGATG[GA]GAACCAGTCAAGTTTATAAGATCACTGAGTTTCCATTCTTTCCCTCT
TTGAATAGGTTAG
98028 IS [GA]
98029 I
A GCGTGAGCTGAGTTTTTGCATATGATCATTAGCATAATT
98029 P A
A CGCGCCGAGGAATGCTTGATCTAGATGGCY
98029 P G
A ATGACGTGGCAGACGATGCTTGATCTAGATGGCY
98029 T A
A GTGCGCCATCTAGATCAAGCATTATTATGCTAATGATCATATGCAAAACTCAGCTCACGCAT
98029 T G
A GTGCGCCATCTAGATCAAGCATCATTATGCTAATGATCATATGCAAAACTCAGCTCACGCAT
ATAAGATCATTAACATAATAATGCGTGAGCTGAGTTTTTGCATATGATCATTAGCATAAT[AG]ATGCTTGATCTAGATGGCGCACCCACAAGCCAGGCACTGAGCCAGG
CCTCAGTAGAATCT
98029 IS [AG]
98030 I
A CTAGGTTTAGGTTAAGACTTGGGGGTGGGGGTAAT
98030 P G
A ATGACGTGGCAGACGGAGGGAACCTCAGGY
98030 P C
A CGCGCCGAGGCGAGGGAACCTCAGGY
98030 T G
A GCAGCCTGAGGTTCCCTCGTTACCCCCACCCCCAAGTCTTAACCTAAACCTAGCT
98030 T C
A GCAGCCTGAGGTTCCCTCGTTACCCCCACCCCCAAGTCTTAACCTAAACCTAGCT
ACGAGGCGCTGCCTTACCCCTTGGAGCTAGGTTTAGGTTAAGACTTGGGGGTGGGGGTAA[GC]GAGGGAACCTCAGGCTGCTTGGAGAGACCACCACAGGACTGGCGGC
TTCTGTCTCCTGAC
98030 IS [GC]
98031 I
S CTCACCAACCATGCACACATATGCCAATCCT
98031 P C
S ATGACGTGGCAGACGTGCACGCATGACATATY
98031 P T
S CGCGCCGAGGATGCACGCATGACATATTY
98031 T C
S GTTAAATATGTCATGCGTGCACGGATTGGCATATGTGTGCATGGGTTGGTGAGCA
98031 T T
S GTTAAATATGTCATGCGTGCATGGATTGGCATATGTGTGCATGGGTTGGTGAGCA
CATCTTTCTTAAGAGCACAGGGTGCTCTCCAGTATGATTGTTAAATATGTCATGCGTGCA[CT]GGATTGGCATATGTGTGCATGGGTTGGTGAGCAGAGACGTGTAGCC
AGGATAGATCTGGG
98031 IS [CT]
98038 I
S GCCCAGGGGGAGGGTGATTTTCATGATCCT
98038 P C
S ATGACGTGGCAGACGTGGCATTTCATTACCCTY
98038 P T
S CGCGCCGAGGATGGCATTTCATTACCCTTY
98038 T C
S TTACAAGGGTAATGAAATGCCACGGATCATGAAAATCACCCTCCCCCTGGGCCC
98038 T T
S TTACAAGGGTAATGAAATGCCATGGATCATGAAAATCACCCTCCCCCTGGGCCC
TTTTCCAGTTTGGCTATGAGCACAGCTCCAGTATCTGTTTACAAGGGTAATGAAATGCCA[CT]GGATCATGAAAATCACCCTCCCCCTGGGCCCACTCTTCTGACCTTATT
TTTCAGAGGGGA
98038 IS [CT]
98039 I
S CATCAAACCCAAAGGACTAACAAGAAATTAGGAAGCAACT
98039 P T
S CGCGCCGAGGATTTCTTAGCCCAAGAAAGAAT
98039 P C
S ATGACGTGGCAGACGTTTCTTAGCCCAAGAAAGAY
98039 T T
S CTGATTCTTTCTTGGGCTAAGAAATGTTGCTTCCTAATTTCTTGTTAGTCCTTTGGGTTTGATGCT
98039 T C
S CTGATTCTTTCTTGGGCTAAGAAACGTTGCTTCCTAATTTCTTGTTAGTCCTTTGGGTTTGATGCT
CTAGCATCCTGATTCTTTCATCCTGATTCTAGCATCCTGATTCTTTCTTGGGCTAAGAAA[TC]GTTGCTTCCTAATTTCTTGTTAGTCCTTTGGGTTTGATGCTTTAATCT
TGTGGCTCTTTC
98039 IS [TC]
98040 I
S TCACCACCACACATATATTTCCATTCTTCTAAATGTACAGGGAAGCA
98040 P G
S ATGACGTGGCAGACCCTGTGGCAGTTTTGTY
98040 P A
S CGCGCCGAGGTCTGTGGCAGTTTTGTCT

PP2447


98040 T G
S TCAAGACAAAACTGCCACAGGGCTTCCCTGTACATTTAGAAGAATGGAAATATATGTGTGGTGGTGATG
98040 T A
S TCAAGACAAAACTGCCACAGAGCTTCCCTGTACATTTAGAAGAATGGAAATATATGTGTGGTGGTGATG
CATAGTATCTGTGGGAGAAATATAAATATGTTGAATGATCTCAAGACAAAACTGCCACAG[GA]GCTTCCCTGTACATTTAGAAGAATGGAAATATATGTGTGGTGGTG
ATGCTGACACCTAGA
98040 IS [GA]
98041 I
A GTGTATTTAATCTTGTCATGTTACAAATATTGAAATCTCAGCAGACTTCAT
98041 P G
A ATGACGTGGCAGACGTTCTTTATTTGATATACATCAGGGY
98041 P A
A CGCGCCGAGGATTCTTTATTTGATATACATCAGGGY
98041 T G
A AAAGCCCTGATGTATATCAAATAAAGAACTGAAGTCTGCTGAGATTTCAATATTTGTAACATGACAAGATTAAATACACTC
98041 T A
A AAAGCCCTGATGTATATCAAATAAAGAATTGAAGTCTGCTGAGATTTCAATATTTGTAACATGACAAGATTAAATACACTC
GAGAAAGTGAGTGTATTTAATCTTGTCATGTTACAAATATTGAAATCTCAGCAGACTTCA[GA]TTCTTTATTTGATATACATCAGGGCTTTCTCATTAAGAGTATTTTT
CTGAAATTGTCAGT
98041 IS [GA]
98042 I
A GCGGCCACATGCTTCCTCTGCTGCA
98042 P C
A ATGACGTGGCAGACGGTCCTCCTGAGTGTGY
98042 P T
A CGCGCCGAGGTGTCCTCCTGAGTGTGY
98042 T C
A AAAACACACTCAGGAGGACGGCAGCAGAGGAAGCATGTGGCCGCTG
98042 T T
A AAAACACACTCAGGAGGACAGCAGCAGAGGAAGCATGTGGCCGCTG
GAAGCGGGCGCAGGCTGGTGGGGTTGCTCGCATGCAGCGGCCACATGCTTCCTCTGCTGC[CT]GTCCTCCTGAGTGTGTTTTCCACTGAAACGCAGATAACAAATCAGAA
TCCGGGGAAGAAT
98042 IS [CT]
98043 I
S AGGAAAAGCGGGAGCAGTCCCTCCT
98043 P C
S ATGACGTGGCAGACGTGGAGGGAAATCCACTY
98043 P T
S CGCCCCGAAGGATGAGGGAAATCCACTY
98043 T C
S TGGGAGTGGATTTCCCTCCATGGAGGGACTGGCTCCCGCTTTCCTTT
98043 T T
S TGGGAGTGGATTTCCCTCCATGGAGGGACTGGCTCCCGCTTTTCCTTT
GTGACCTGCAGGGAGTTGCCCAGTTCTTATGGGGGCCACATGGGAGTGGATTTCCCTCCA[CT]GGAGGGACTGGCTCCCGCTTTTCCTTTTTGTGTGCATCTTGAGTCAG
TCCATATGACAGA
98043 IS [CT]
98044 I
A TGTCGGCTCCCCCAGACTGGCTT
98044 P C
A CGCGCCGAGGCTGTGGCCTCAGCCY
98044 P G
A ATGACGTGGCAGACGTGTGGCCTCAGCCY
98044 T C
A ATCTGGCTGAGGCCACAGAGCCAGTCTCGGGGAGCCGACAGG
98044 T G
A ATCTGGCTGAGGCCACAGCAGCCAGTCTCGGGGAGCCGACAGG
AGCAGCACCCATAGCCCTGCATGAGCCCCTCTGCCCCCTGTCGGCTCCCCGAGACTGGCT[CG]TGTGGCCTCAGCCAGATGCCCTTCCCTCTCTGATCCCACAGTGCCCCACC
TGTCCGAGTA
98044 IS [CG]
98046 I
S GCCTTTTGCCATGTTACTTTTCAACACTGCCCACAAAT
98046 P C
S ATGACGTGGCAGACGGTAGGCAGAGTATATGTCTY
98046 P T
S CGCGCCGAGGAGTAGGCAGAGTATATGTCTY
98046 T C
S GACAGACACATATACTCTGCCTACTTTTGTGGGCAGTGTTGAAAAGTAACATGGCAAAAGGCAT
98046 T T
S GACAGACACATATACTCTGCCTACTTTTGTGGGCAGTGTTGAAAAGTAACATGGCAAAAGGCAT
CAACACAAGTCATGTGGACAAATTCAACATCCATAAGACAGAGACATATACTCTGCCTAC[CT]TTTGTGGGCAGTGTTGAAAAGTAACATGGCAAAAGGCATAATTCTA
TTAAAGGGAGGGGA
98046 IS [CT]
98047 I
A CTTGGATCCATTTCTGCCACACCAACTCTATGTTAGCAATATTT
98047 P A
A CGCGCCGAGGAGAAAACGAGCAGGAGGY
98047 P G
A ATGACGTGGCAGACGGAAAAGAGGAGGAGGY
98047 T A
A ATAAGCCTCCTCCTCTTTCTAATATTGCTAACATAGAGTTGGTGTGGCAGAAATGGATCCAAGG
98047 T G
A ATAAGCCTCCTCCTCTTTCCAATATTGCTAACATAGAGTTGGTGTGGCAGAAATGGATCCAAGG
ACCTCTGGGCATGAGCCCTTGGATCCATTTCTGCCACACCAACTCTATGTTAGCAATATT[AG]GAAAAGAGGAGGAGGCTTATGCCAGGAATTTACTCACCTTCAAGAAA
CTGAAGACTTTCT
98047 IS [AG]
98048 I
S TCCATCCCTGGCTGAGACTTGGATGGACTT
98048 P T
S CGCGCCGAGGATGGAGGCACAGAAGGGY
98048 P C
S ATGACGTGGCAGACGTGGAGGACAGAAGGGY
98048 T T
S CCATCCCTTCTGTCCTCCATAGTCCATCCAAGTCTCAGCCAGGGATGGAGA
98048 T C
S CCATCCCTTCTGTCCTCCAGTCCATCCAAGTCTCAGCCAGGGATGGAGA
TCACTTTATTTCTCTCTATCCCATGACTTGTCTCTTTTCCTCCATCCCTTCTGTCCTCCA[TC]AGTCCATCCAAGTCTCAGCCAGGGATGGAGAGAGAGTCTGGAAACTGCC
AGACGCTCATC
98048 IS [TC]
98050 I
S GGAGTCAGAAAAGCTGGCGTTCAAATCCTAGTTCTCAT
98050 P G
S ATGACGTGGCAGACCCAACCACAAGGTCACY
98050 P T
S CGCGCCGAGGACAACCACAAGGTCACTY
98050 T G
S GCGCAGTGACCTTGTGGTTGGTGAGAACTAGGATTTGAACGCCAGCTTTTCTGACTCCGG
98050 T T
S GCGCAGTGACCTTGTGGTTGTTGAGAACTAGGATTTGAACGCCAGCTTTTCTGACTCCGG
ATGTACAATGTGTACAGCTATCCCTCCACGGTCTAAGGGGCGCAGTGACCTTGTGGTTG[GT]TGAGAACTAGGATTTGAAGCCAGCTTTTCTGACTCCGGAGCCTAAG
GCCTCACCAGCTG
98050 IS [GT]
98051 I
S AGCAGCTGGTGAGGCCTTAGGCTCCT
98051 P C
S ATGACGTGGCAGACGGAGTCAGAAAAGCTGGY
98051 P T
S CGCGCCGAGGAGAGTCAGAAAAGCTGGY
98051 T C
S AACGCCAGCTTTTCTGACTCTGGAGCCTAAGGCCTCACCAGCTGCTAC
98051 T T
S AACGCCAGCTTTTCTGACTCTGGAGCCTAAGGCCTCACCAGCTGCTAC
GGGGCGCAGTGACCTTGTGGTTGGTGAGAACTAGGATTTGAACGCCAGCTTTCTGACTC[CT]GGAGCCTAAGGCCTCACCAGCTGCTACTTGGAGGAGCTGGTGAGGAC
AGAATGAAGATAG
98051 IS [CT]
98052 I
A GCTACTTGGAGGAGCTGGTGAGGACAGAATGAAT
98052 P G
A ATGACGTGGCAGACGATAGTCTTTGGATGCCAGY
98052 P A
A CGCGCCGAGGAATAGTCTTTGGATGCCAGY
98052 T G
A TACTCTGGCATCCAAAGACTATCTTCATTCTGTCCTCACCAGCTCCTCCAAGTAGCAG
98052 T A
A TACTCTGGCATCCAAAGACTATTTTCATTCTGTCCTCACCAGCTCCTCCAAGTAGCAG
ACTCCGGAGCCTAAGGCCTCACCAGCTGCTACTTGGAGGAGCTGGTGAGGACAGAATGAA[GA]ATAGTCTTTGGATGCCAGAGTATCCACTGAACTTGGAATCATTACCT
TGAACTTAAGGGG
98052 IS [GA]
98053 I
S GAGATGCTGGGGGTCGTGGTGAGAGTAAAGAGTT
98053 P C
S ATGACGTGGCAGACGGGCCCTAACAACGAY
98053 P T
S CGCGCCGAGGAGGCCCTAACAACGAAY
98053 T C
S ATTTTTCGTTGTTAGGGCCCACTCTTTACTCTCACCACGACCCCAGCATCTCTC
98053 T T
S ATTTTTCGTTGTTAGGGCCTACTCTTTACTCTCACCACGACCCCAGCATCTCTC
TTCGAAAGAAAAGCAAACACAGAGGTGAGAAGAAAAGTGGCTATTTTTCGTTGTTAGGGCC[CT]ACTCTTTACTCTCACCACGACCCCAGCATCTCTCTGGAAGCCCTTAT
AGAGCGGGGCATG
98053 IS [CT]
98055 I
S GGCCTCCGGGGAGCACGTGACC
98055 P C
S ATGACGTGGCAGACGGACGAGGAGATCGAATY
98055 P A
S CGCGCCGAGGTGACGAGGAGATCGAATCY
98055 T C
S CAGAGATTCGATCTCGTCGTCCGTCAGTGCTCCCCGGAGGCCCT
98055 T A
S CAGAGATTCGATCTCGTCGTCAGTCACGTGCTCCCCGGAGGCCCT
GTCAATGCGGCCGTCGTTGTTCTTGTGGCCGTCTTTCATCAGAGATTCGATCTCGTC[CA]GTCACGTGCTCCCCGGAGGCCCTGAAAATCTCAGCCAGCTCCTCCGGGT
CGATGTAGCCG
98055 IS [CA]
98056 I
S GCCCGTTGGGATCACCGCATTTCCAGT
98056 P T
S CGCGCCGAGGAACAGGGATAGTCAGGGY
98056 P C
S ATGACGTGGCAGACGACAGGGATAGTCAGGGY
98056 T T
S CCGACCCTGACTATCCCTGTTCTGGAAATGCGGTGATCCCAACGGGCGT
98056 T C
S CCGACCCTGACTATCCCTGTCCTGGAAATGCGGTGATCCCAACGGGCGT
TGAGTTTCCTTATAACCAGGGCTATCTCTTCACGATGGGCCCGACCCTGACTATCCCTGT[TC]CTGGAAATGCGGTGATCCCAACGGGCGTCTAGGATGCTGGTAACATAC
TCCCAGCATGAG
98056 IS [TC]
TNNC2


98057 I
98057 P T
98057 P C
98057 T T
98057 T C
98057 IS [TC]
98058 I
98058 P C
98058 P T
98058 T C
98058 T T
98058 IS [CT]
98062 I
98062 P A
98062 P G
98062 T A
98062 T G
98062 IS [AG]
98064 I
98064 P A
98064 P G
98064 T A
98064 T G
98064 IS [AG]
98065 I
98065 P A
98065 P G
98065 T A
98065 T G
98065 IS [AG]
98066 I
98066 P G
98066 P A
98066 T G
98066 T A
98066 IS [GA]
98067 I
98067 P A
98067 P G
98067 T A
98067 T G
98067 IS [AG]
98069 I
98069 P A
98069 P G
98069 T A
98069 T G
98069 IS [AG]
98070 I
98070 P G
98070 P A
98070 T G
98070 T A
98070 IS [GA]
98072 I
98072 P A
98072 P G
98072 T A
98072 T G
98072 IS [AG]
98076 I
98076 P G
98076 P A
98076 T G
98076 T A
98076 IS [GA]
98079 I
98079 P T
98079 P C
98079 T T
98079 T C
98079 IS [TC]
98080 I
98080 P C
98080 P T
98080 T C
98080 T T
98080 IS [CT]
98082 I
98082 P G
98082 P A
98082 T G

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FIGURE 129C

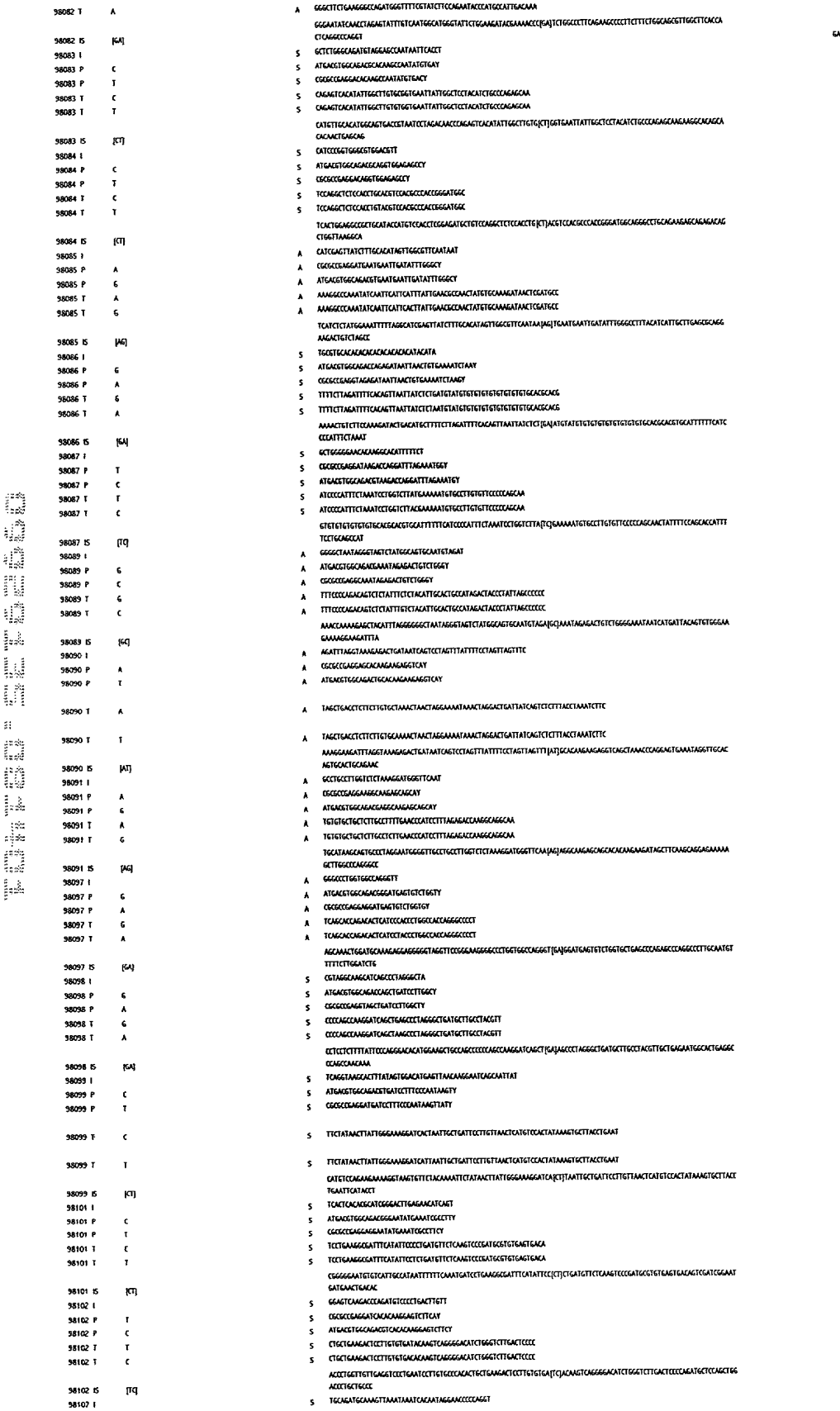
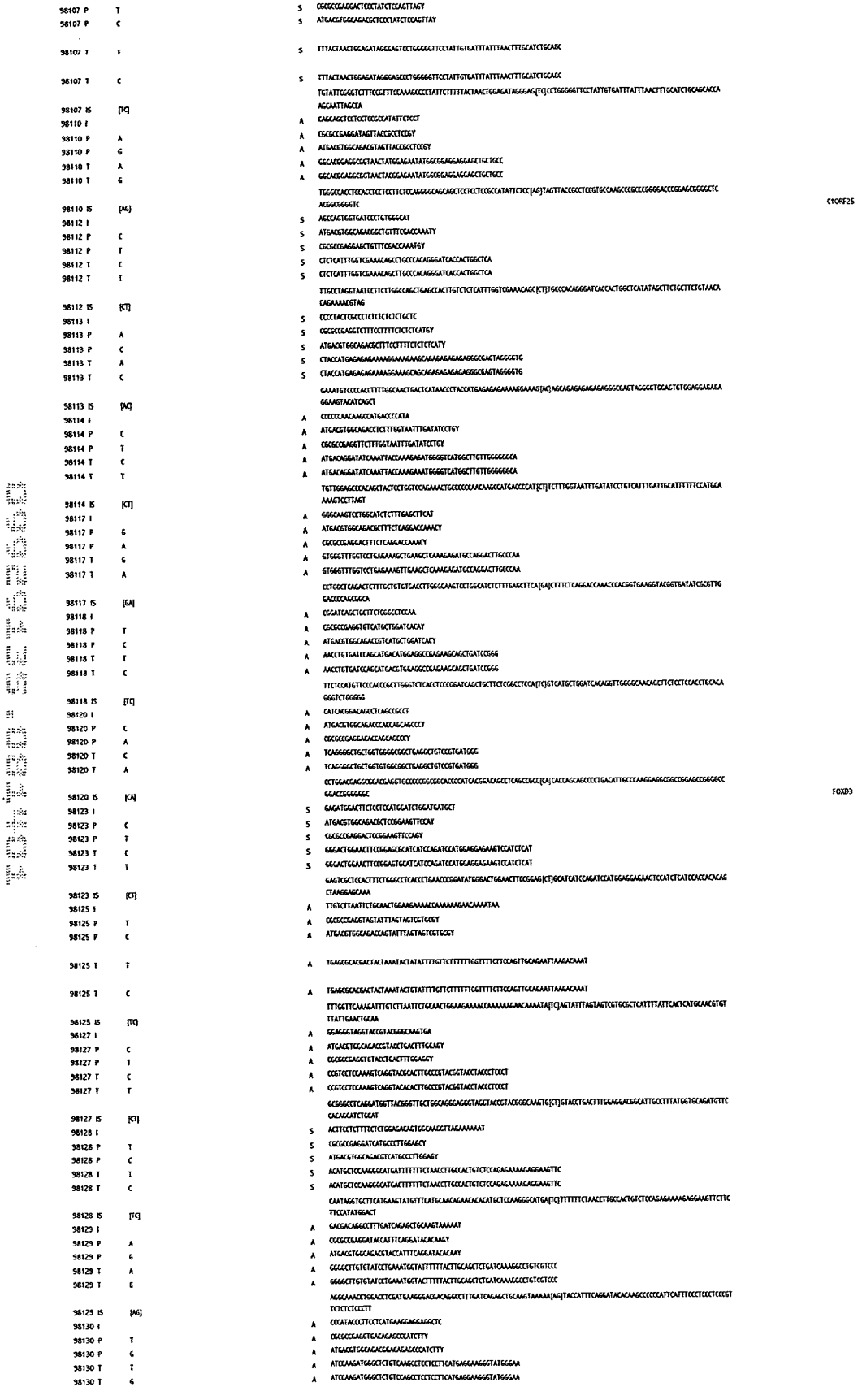
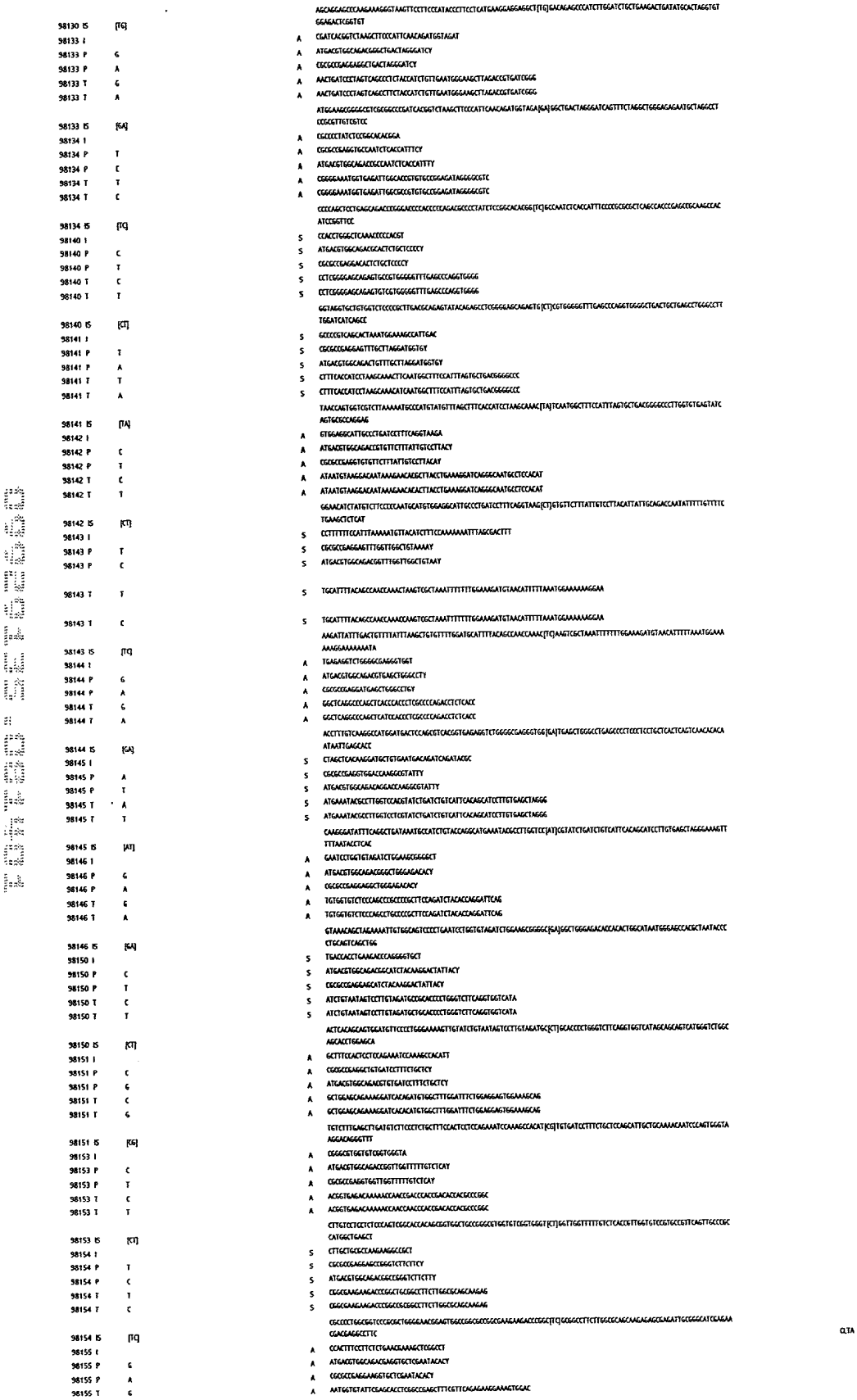


FIGURE 129C


98107 P T S CGCGCCGAGGACTCCCTATCTCCAGTTAGY
98107 P C S ATGACGTGGCAGACGCTCCCTATCTCCAGTTAY
98107 T T S TTTACTAACTGGAGATAGGGAGTCCTGGGGGTTCCTATTGTGATTTATTTAACTTTGCATCTGCAGC
98107 T C S TTTACTAACTGGAGATAGGCAGCCCTGGGGGTTCCTATTGTGATTTATTTAACTTTGCATCTGCAGC
98107 IS [TC] TGTATTCGGGTCTTTCCGTTTCCAAAGCCCCTATTCTTTTTACTAACTGGAGATAGGGAG[TC]CCTGGGGGTTCCTATTGTGATTTATTTAACTTTGCATCTGCAGCACCA AGCAATTAGCCA
98110 I A CAGCAGCTCCTCCTCCGCCATATTCTCCT
98110 P A A CGCGCCGAGGATAGTTACCGCCTCCGY
98110 P G A ATGACGTGGCAGACGTAGTTACCGCCTCCGY
98110 T A A GGCACGCAGGCGGTAACTATGCAGAGATATGGCGGAGGAGGAGCTGCTGCC
98110 T G A GGCACGCAGGCGGTAACTACGGAGAATATGGCGGAGGAGGAGCTGCTGCC
98110 IS [AG] TGGGCCACCTCCACCTCCTCCTTCTCCAGGGGCAGCAGCTCCTCCTCCGCCATATTCTCC[AG]TAGTTACCGCCTCCGTGCCAAGCCCGCCCGGGGACCCGGAGCGGGGCTC ACGGCGGGGCTC C1ORF25
98112 I S AGCCAGTGGTGATCCCTGTGGGCAT
98112 P C S ATGACGTGGCAGACGGCTGTTTCGACCAAATY
98112 P T S CGCGCCGAGGAGCTGTTTCGACCAAATGY
98112 T C S CTCTCATTTGGTCGAAACAGCCTGCCCACAGGGATCACCACTGGCTCA
98112 T T S CTCTCATTTGGTCGAAACAGCTTGCCCACAGGGATCACCACTGGCTCA
98112 IS [CT] TTGCCTAGGTAATCCTTCTTGGCCAGCTGAGCCACTTGTCTCTCATTTGGTCGAAACAGC[CT]TGCCCACAGGGATCACCACTGGCTCATATAGCTTCTGCTTCTGTAACA CAGAAAAEGTAG
98113 I S CCCCTACTGGCCCTCTCTCTCTCTGCTC
98113 P A S CGCGCCGAGGTCTTTCCTTTTCTCTCTCATGY
98113 P C S ATGACGTGGCAGACGCTTTCCTTTTCTCTCTCATY
98113 T A S CTACCATGAGAGAGAAAAGCAAAGAAGCAGAGAGAGAGAGGGCGAGTAGGGGTG
98113 T C S CTACCATGAGAGAGAAAAGCAAAGCAGCAGAGAGAGAGAGGGCGAGTAGGGGTG
98113 IS [AC] GAAATGTCCCCACCTTTTGGCAACTGACTCATAACCCTACCATGAGAGAGAAAAGGAAAG[AC]AGCAGAGAGAGAGAGGGCCAGTAGGGGTGCAGTGTGGAGGAGAAA GGAAGTACATCAGCT
98114 I A CCCCCCAACAAGCCATGACCCCATA
98114 P C A ATGACGTGGCAGACCTCTTTGGTAATTTGATATCCTGY
98114 P T A CGCGCCGAGGTTCTTTGGTAATTTGATATCCTGY
98114 T C A ATGACAGGATATCAAATTACCAAAGAATGGGGTCATGGCTTGTTGGGGGGCA
98114 T T A ATGACAGGATATCAAATTACCAAAGAATGGGGTCATGGCTTGTTGGGGGGCA
98114 IS [CT] TGTTGGAGCCCCACAGCTACTCCTGGTCCAGAAACTGCCCCCCAACAAGCCATGACCCCATC[CT]TCTTTGGTAATTTGATATCCTGTCATTTGATTGCATTTTTTCCATGCA AAAGTCCTTAGT
98117 I A GGGCAAGTCCTGGCATCTCTTTGAGCTTCAT
98117 P G A ATGACGTGGCAGACGCTTTCTCAGGACCAAACY
98117 P A A CGCGCCGAGGACTTTCTCAGGACCAAACY
98117 T G A GTGGGTTTGGTCCTGAGAAAGCTGAAGCTCAAAGAGATGCCAGGACTTGCCCAA
98117 T A A GTGGGTTTGGTCCTGAGAAAGTTGAAGCTCAAAGAGATGCCAGGACTTGCCCAA
98117 IS [GA] CCTGGCTCAGACTCTTTGCTGTGTGACCTTGGGCAAGTCCTGGCATCTCTTTGAGCTTCA[GA]CTTTCTCAGGACCAAACCCCACGGTGAAGGTACGGTGATATCGCGTTG GACCCCAGCGGCA
98118 I A CGGATCAGCTGCTTCTCGGCCTCCAA
98118 P T A CGCGCCGAGGTGTCATGCTGGATCACAY
98118 P C A ATGACGTGGCAGACCGTCATGCTGGATCACY
98118 T T A AACCTGTGATCCAGCATGACATGGAGGCCGAGAAGCAGCTGATCCGGG
98118 T C A AACCTGTGATCCAGCATGACGTGGAGGCCGAGAAGCAGCTGATCCGGG
98118 IS [TC] TTCTCCATGTTCCCACCCGCTTGGGTCTCACCTCCCGGATCAGCTGCTTCTCGGCCTCCA[TC]GTCATGCTGGATCACAGGTTGGGGCAACAGCTTCTCCTCCACCTGCACA GGGTCTGGGGG
98120 I A CATCACGGACAGCCTCAGCCGCCT
98120 P C A ATGACGTGGCAGACCCACCAGCAGCCCT
98120 P A A CGCGCCGAGGACACCAGCAGCCCY
98120 T C A TCAGGGGCTGCTGGTGTGGCGGCTGAGGCTGTCCGTGATGGG
98120 T A A TCAGGGGCTGCTGGTGTGGCGGCTGAGGCTGTCCGTGATGGG
98120 IS [CA] CCTGGACGAGGCGGACGAGGTGCCCCCGGCGGCACCCCATCACGGACAGCCTCAGCCGCC[CA]CACCAGCAGCCCCTGACATTGCCCAAGGAGGCGGCCGGAGCCGGGCC GGACCGGGGGGC FOXD3
98123 I S GAGATGGACTTCTCCTCCATGGATCTGGATGATGCT
98123 P C S ATGACGTGGCAGACGCTCCGGAAGTTCCAY
98123 P T S CGCGCCGAGGACTCCGGAAGTTCCAGY
98123 T C S GGGACTGGAACTTCCGGAGCGCATCATCCAGATCCATGGAGGAGAAGTCCATCTCAT
98123 T T S GGGACTGGAACTTCCGGAGTGCATCATCCAGATCCATGGAGGAGAAGTCCATCTCAT
98123 IS [CT] GAGTCGCTCCACTTTCTGGGCCTCACCCTGAACCCGGATATGGGACTGGAACTTCCGGAG[CT]GCATCATCCAGATCCATGGAGGAGAAGTCCATCTCATCCACCACACAG CTAAGGAGCAAA
98125 I A TTGTCTTAATTCTGCAACTGGAAGAAAACCAAAAAGAACAAATAA
98125 P T A CGCGCCGAGGTAGTATTTAGTAGTCGTGCGY
98125 P C A ATGACGTGGCAGACCAGTATTTAGTAGTCGTGCGY
98125 T T A TGAGCGCACGACTACTAAATACTATATTTTGTTCTTTTTTGGTTTTCTTCCAGTTGCAGAATTAAGACAAAT
98125 T C A TGAGCGCACGACTACTAAATACTGTATTTTGTTCTTTTTTGGTTTTCTTCCAGTTGCAGAATTAAGACAAAT
98125 IS [TC] TTTGGTTCAAAGATTTGTCTTAATTCTGCAACTGGAAGAAAACCAAAAAAGAACAAATA[TC]AGTATTTAGTAGTCGTGCGCTCATTTTATTCACTCATGCAACGTGT TTATTGAACTGCAA
98127 I A GGAGGGTAGGTACCGTACGGGCAAGTGA
98127 P C A ATGACGTGGCAGACCGTACCTGACTTTGGAGY
98127 P T A CGCGCCGAGGTGTACCTGACTTTGGAGGY
98127 T C A CCGTCCTCCAAAGTCAGGTACGCACTTGCCCGTACGGTACCTACCCTCCCT
98127 T T A CCGTCCTCCAAAGTCAGGTACACACTTGCCCGTACGGTACCTACCCTCCCT
98127 IS [CT] GCGGGCCTCCAGGATGGTTACGGGTTGCTGGCAGGGAGGGTAGGTACCGTACGGGCAAGTG[CT]GTACCTGACTTTGGAGGAGCGGCATTGCCTTTATGGTGCAGATGTTC CACAGCATCTGCAT
98128 I S ACTTCCTCTTTTCTCTGGAGACAGTGGCAAGGTTAGAAAAAAT
98128 P T S CGCGCCGAGGATCATGCCCTTGGAGCY
98128 P C S ATGACGTGGCAGACGTCATGCCCTTGGAGY
98128 T T S ACATGCTCCAAGGGCATGATTTTTTTCTAACCTTGCCACTGTCTCCAGAGAAAAGAGGAAGTTC
98128 T C S ACATGCTCCAAGGGCATGACTTTTTTCTAACCTTGCCACTGTCTCCAGAGAAAAGAGGAAGTTC
98128 IS [TC] CAATAGGTGCTTCATGAAGTATGTTTCATGCAACAGAACACACATGCTCCAAGGCATGA[TC]TTTTTTCTAACCTTGCCACTGTCTCCAGAGAAAAGAGGAAGTTCTTC TTCCATATGGACT
98129 I A GACGACAGGCCTTTGATCAGAGCTGCAAGTAAAAAT
98129 P A A CGCGCCGAGGATACCATTTCAGGATACACAAGY
98129 P G A ATGACGTGGCAGACGTACCATTTCAGGATACACAAY
98129 T A A GGGGCTTGTGTATCCTGAAATGGTACTTTTTACTTGCAGCTCTGATCAAAGGCCTGTCGTCCC
98129 T G A GGGGCTTGTGTATCCTGAAATGGTACTTTTTACTTGCAGCTCTGATCAAAGGCCTGTCGTCCC
98129 IS [AG] AGGCAAACCTGGAACCTGATGAAGGGACACAACAGGCCTTGATCAGACGCTGCAAGTAAAAA[AG]TACCATTTCAGGATACACAAGCCCCCCATTCATTTCCCTCCCTCCCGT TCTCTCTCCCTT
98130 I A CCCATACCCTTCCTCATGAAGGAGGAGGCTC
98130 P T A CGCGCCGAGGTGACAGAGCCCCATCTTY
98130 P G A ATGACGTGGCAGACGGACAGAGACCCATCTTY
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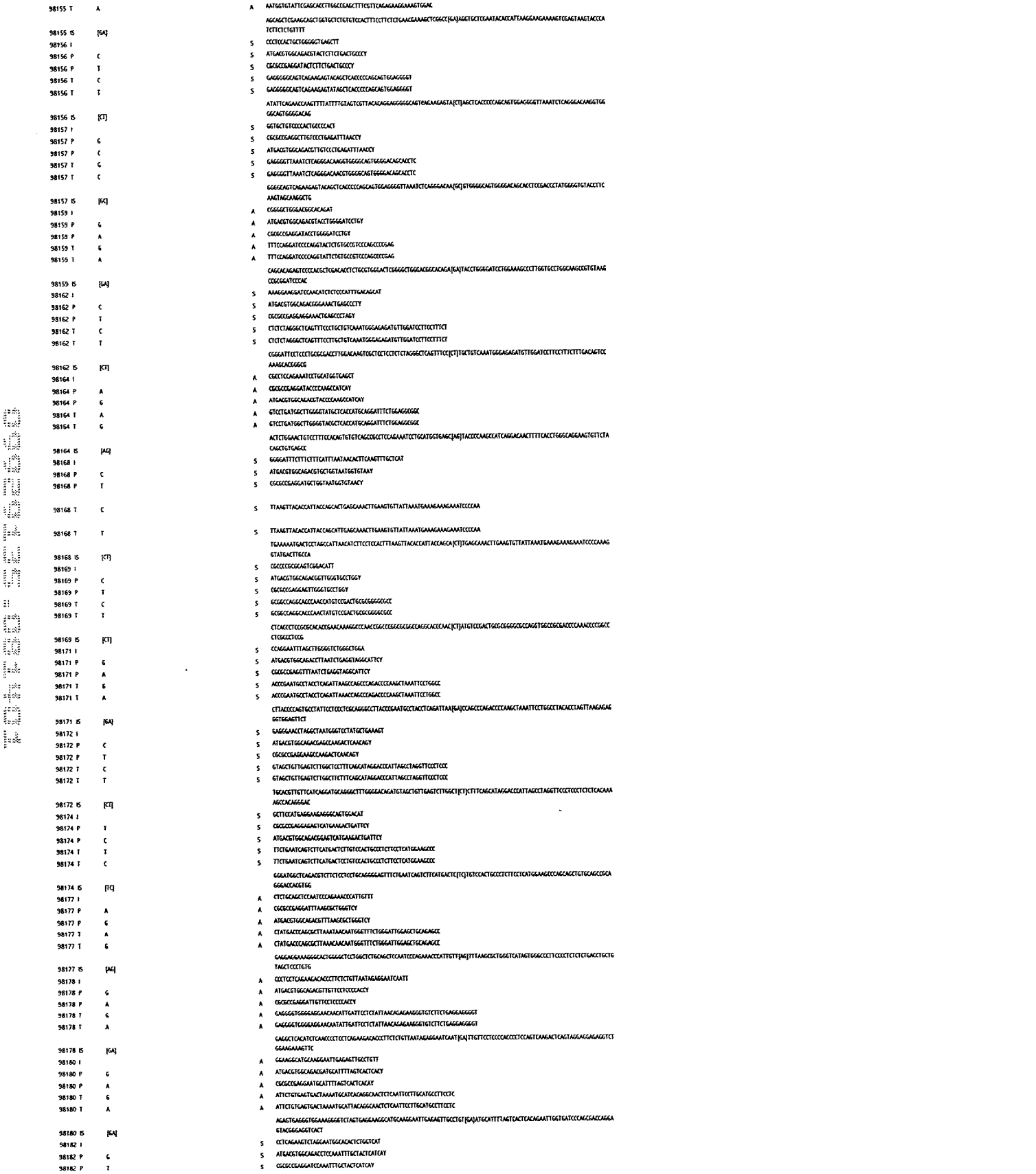


FIGURE 129C

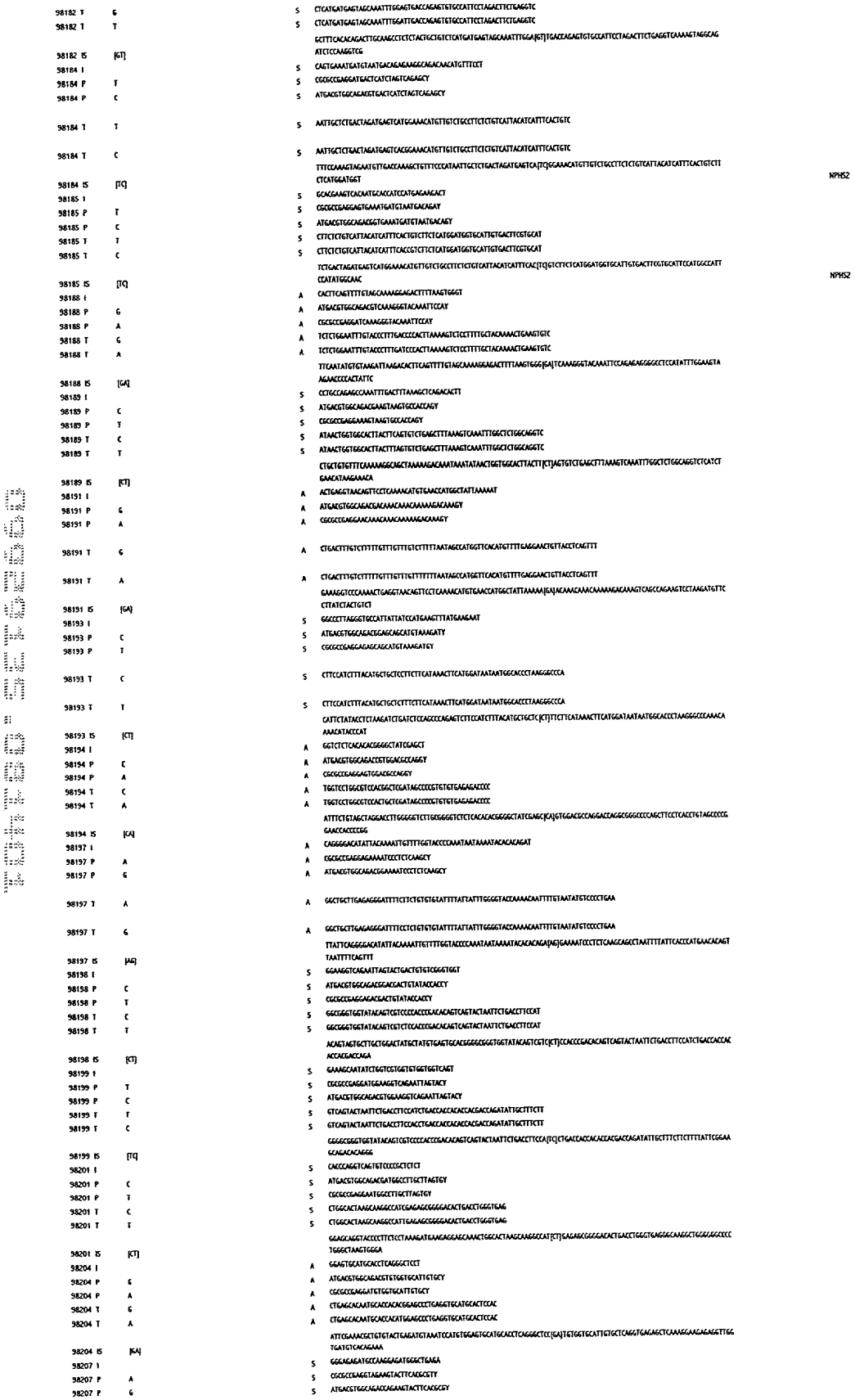


FIGURE 129C

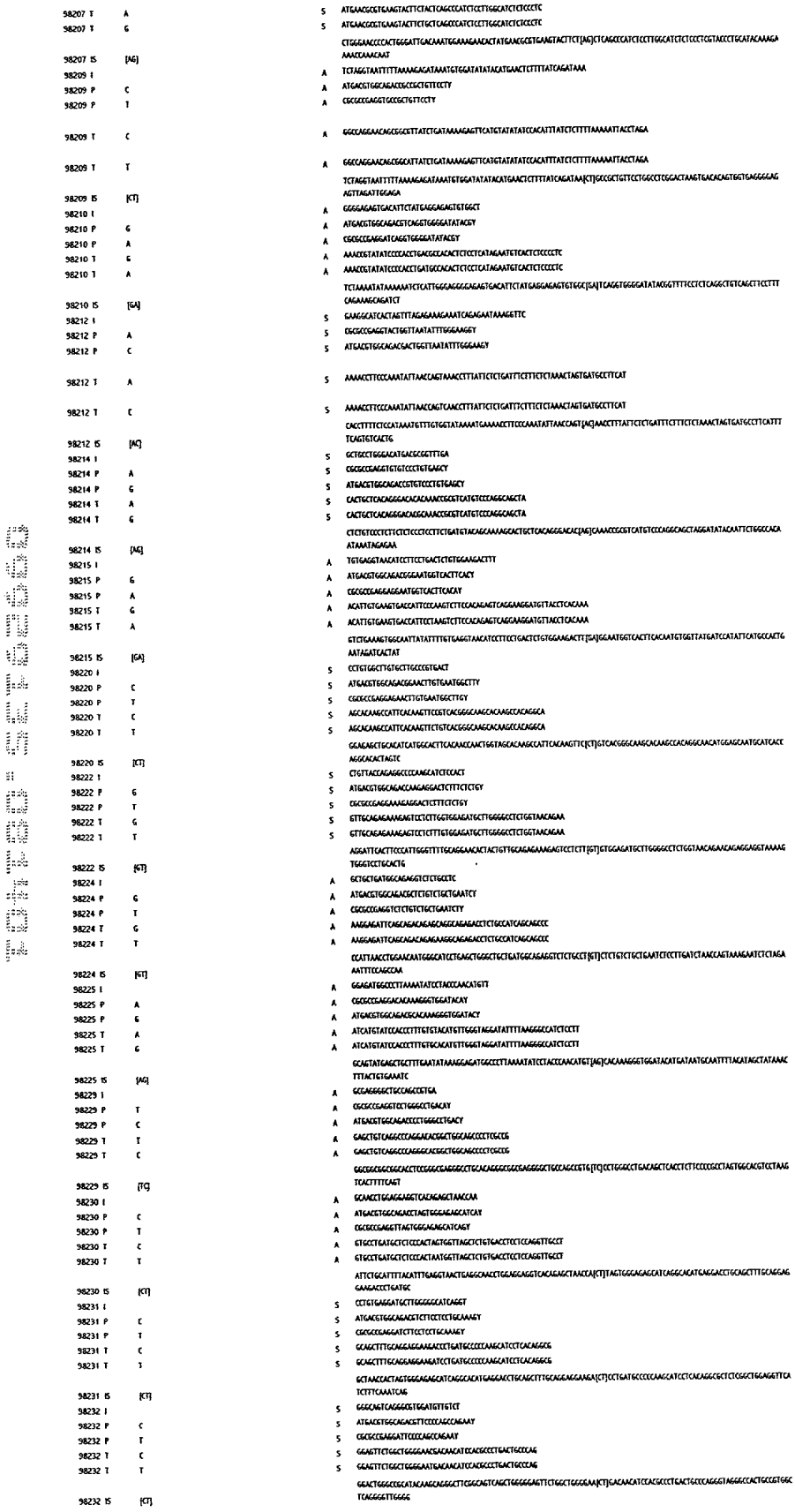


FIGURE 129C

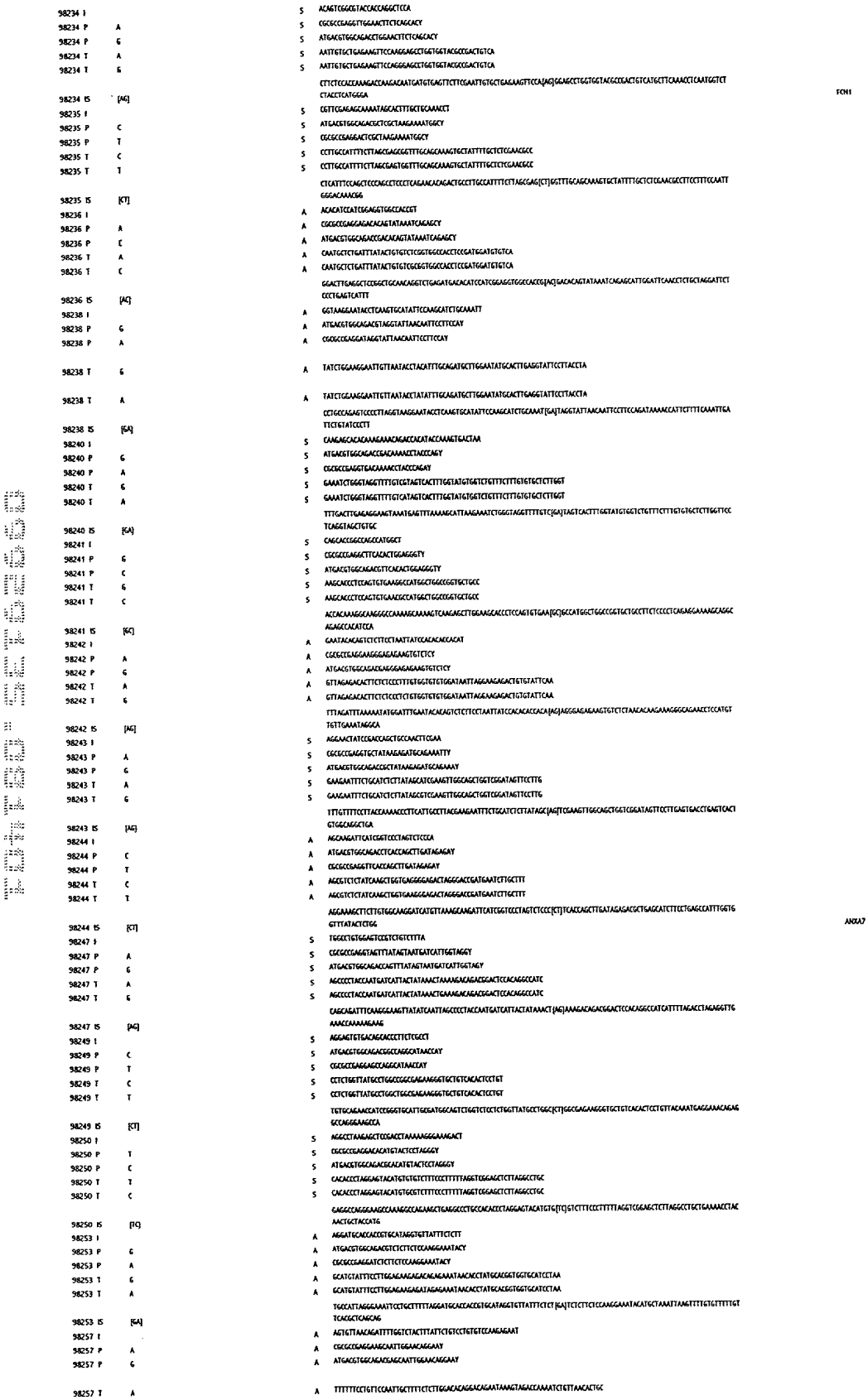
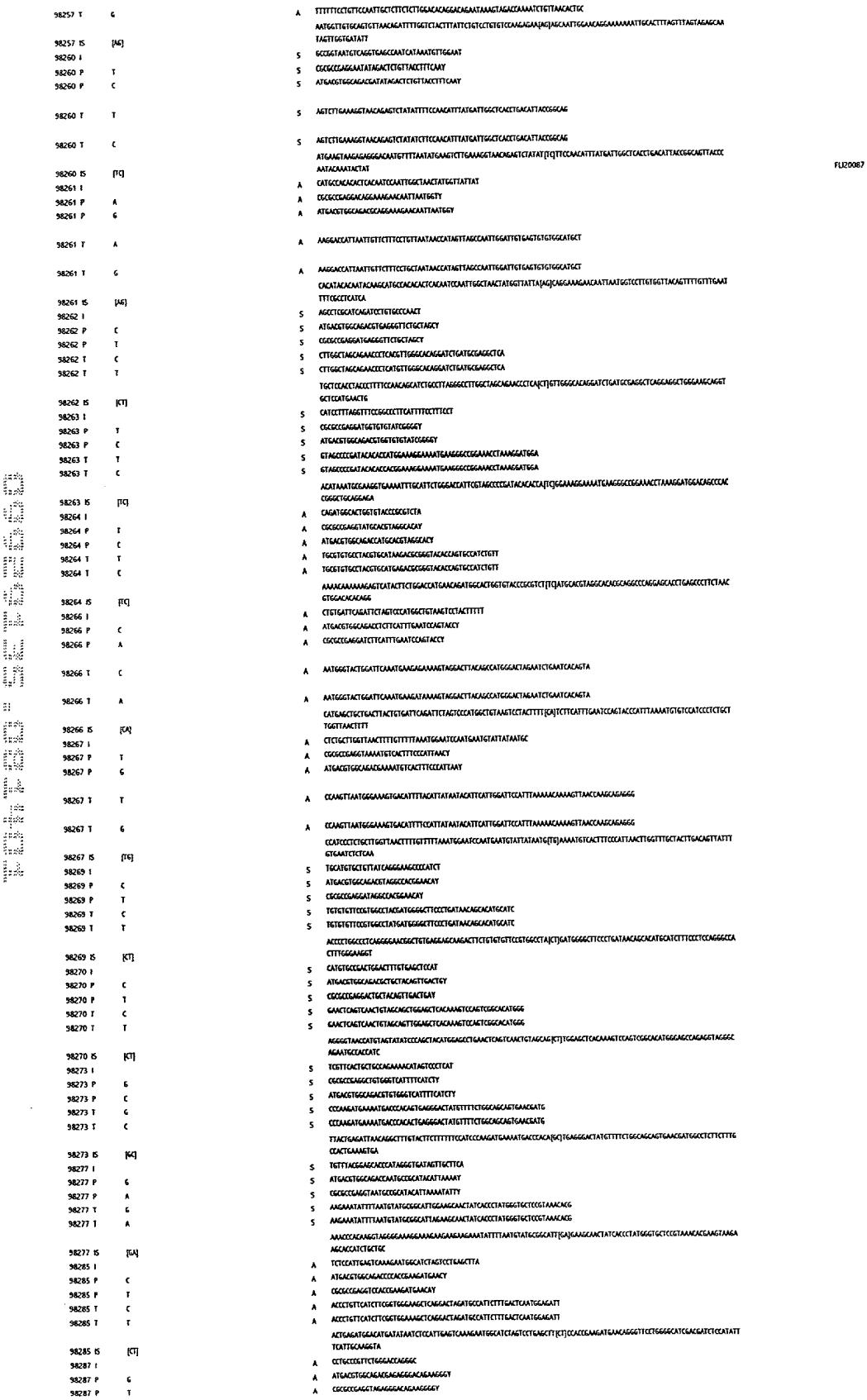


FIGURE 129C



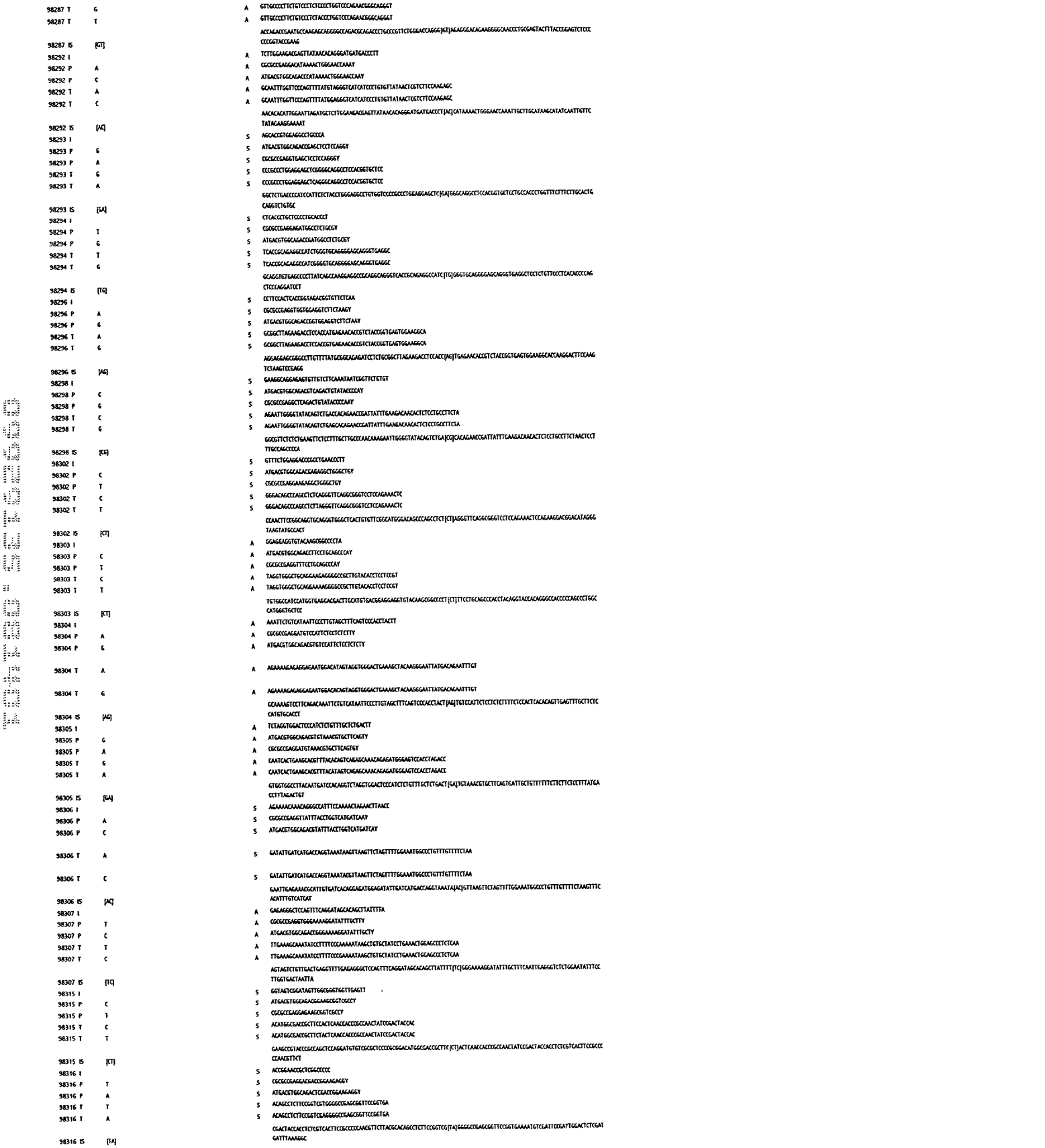

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98292 P A
98292 P C
98292 T A
98292 T C
98292 IS [AC]
98293 I
98293 P G
98293 P A
98293 T G
98293 T A
98293 IS [GA]
98294 I
98294 P T
98294 P G
98294 T T
98294 T G
98294 IS [TG]
98296 I
98296 P A
98296 P G
98296 T A
98296 T G
98298 IS [AG]
98298 I
98298 P C
98298 P G
98298 T C
98298 T G
98298 IS [CG]
98302 I
98302 P C
98302 P T
98302 T C
98302 T T
98302 IS [CT]
98303 I
98303 P C
98303 P T
98303 T C
98303 T T
98303 IS [CT]
98304 I
98304 P A
98304 P G
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98307 P C
98307 T T
98307 T C
98307 IS [TC]
98315 I
98315 P C
98315 P T
98315 T C
98315 T T
98315 IS [CT]
98316 I
98316 P T
98316 P A
98316 T T
98316 T A
98316 IS [TA]

FIGURE 129C

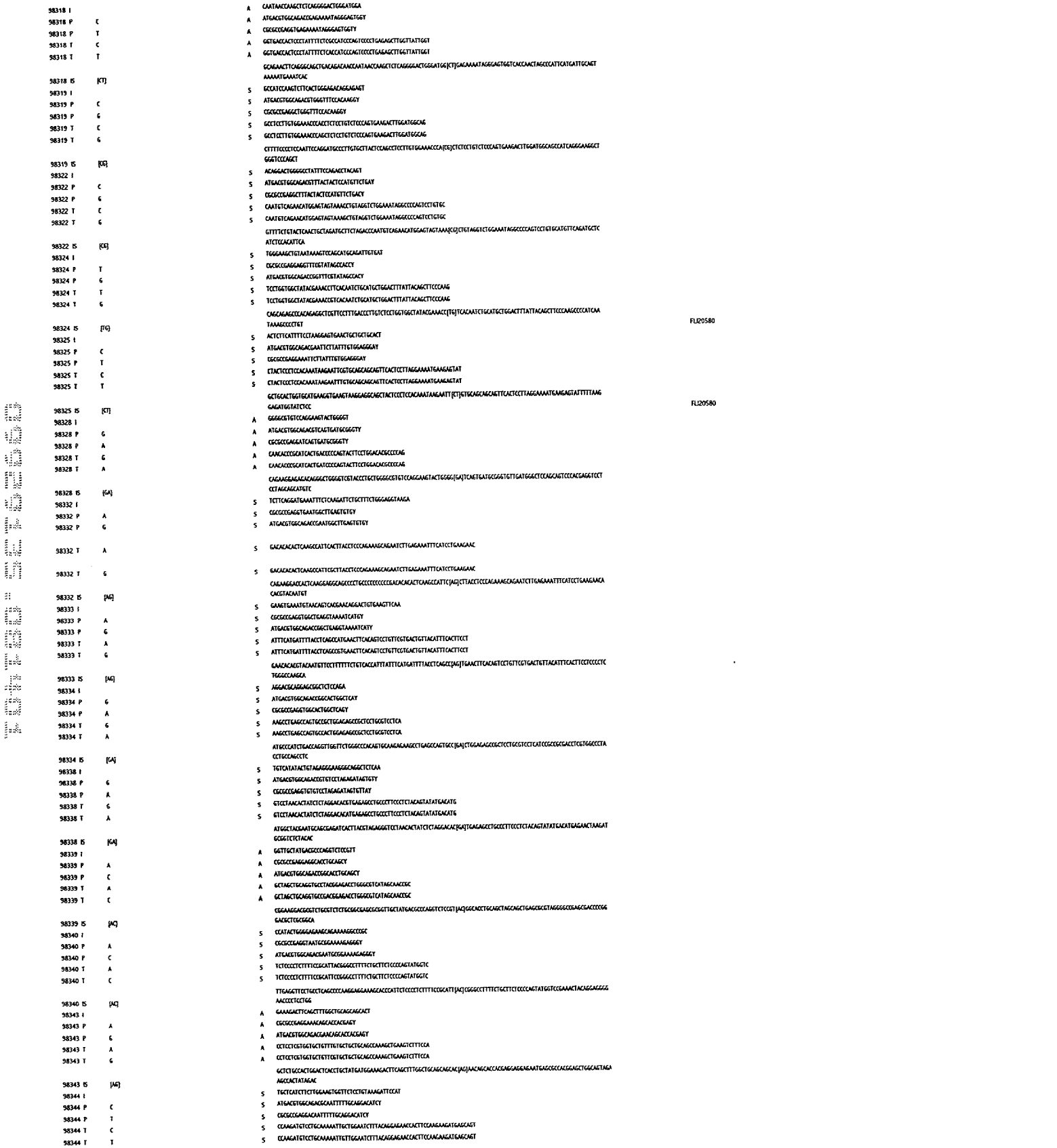


FIGURE 129C

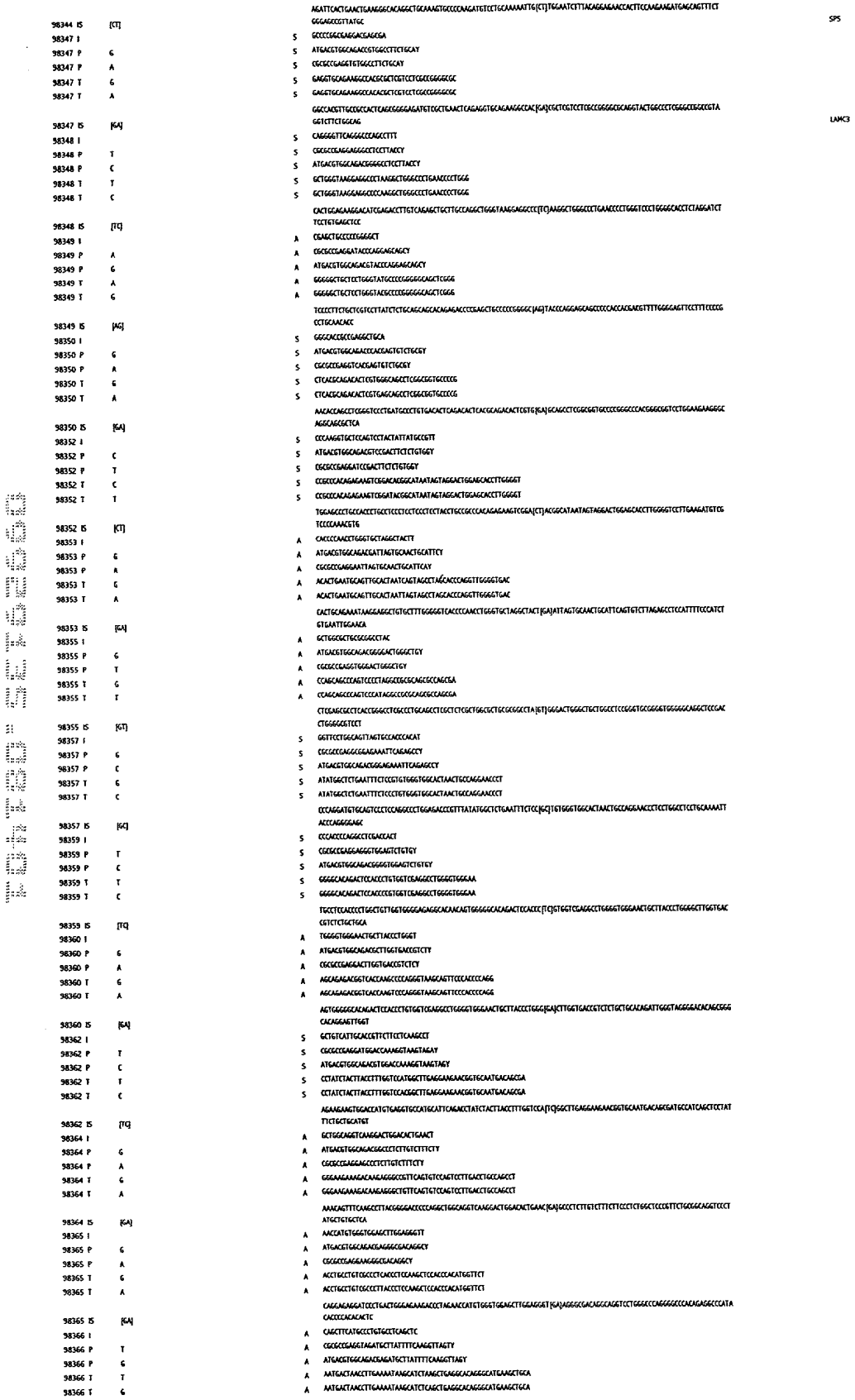
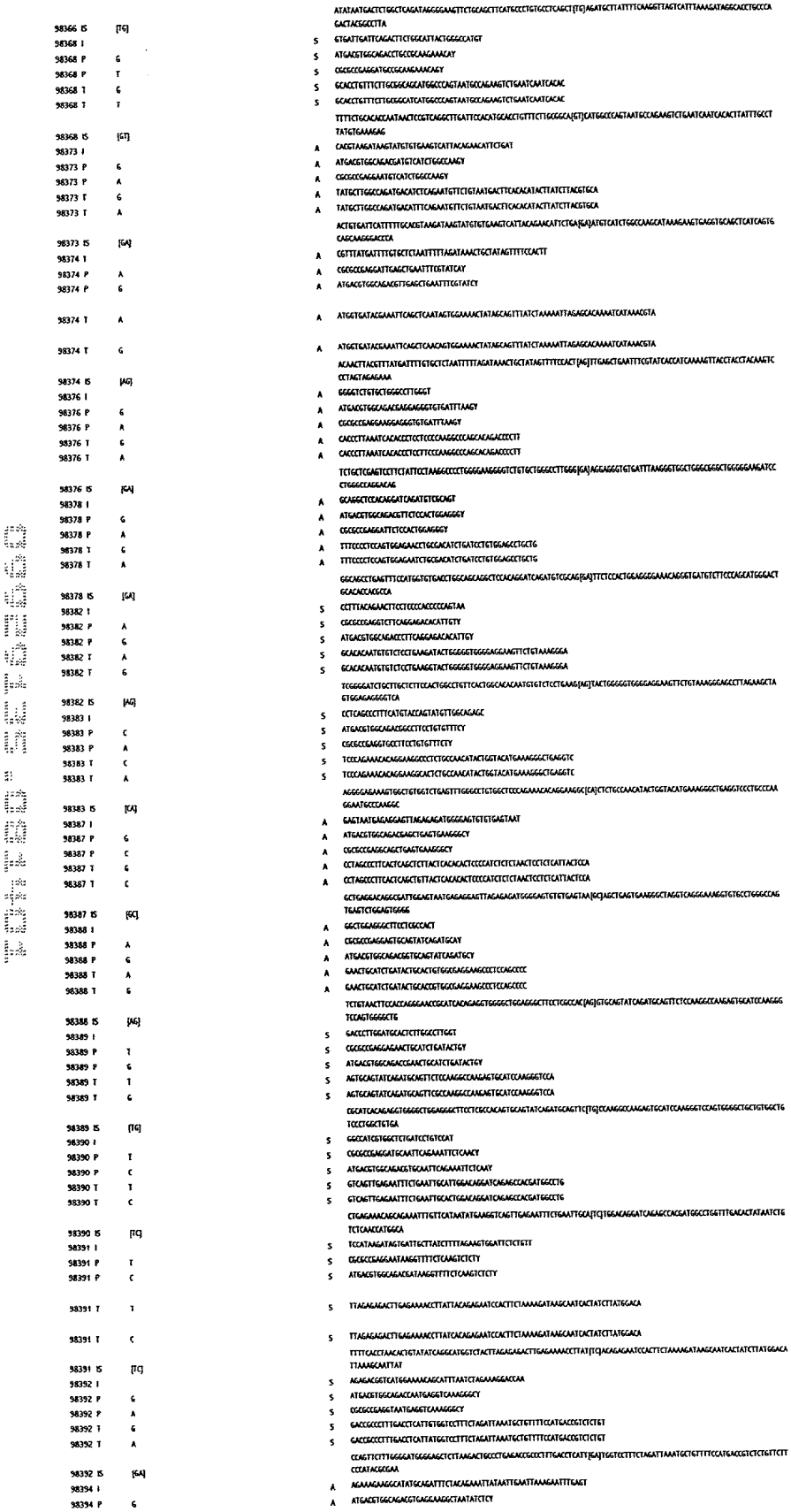
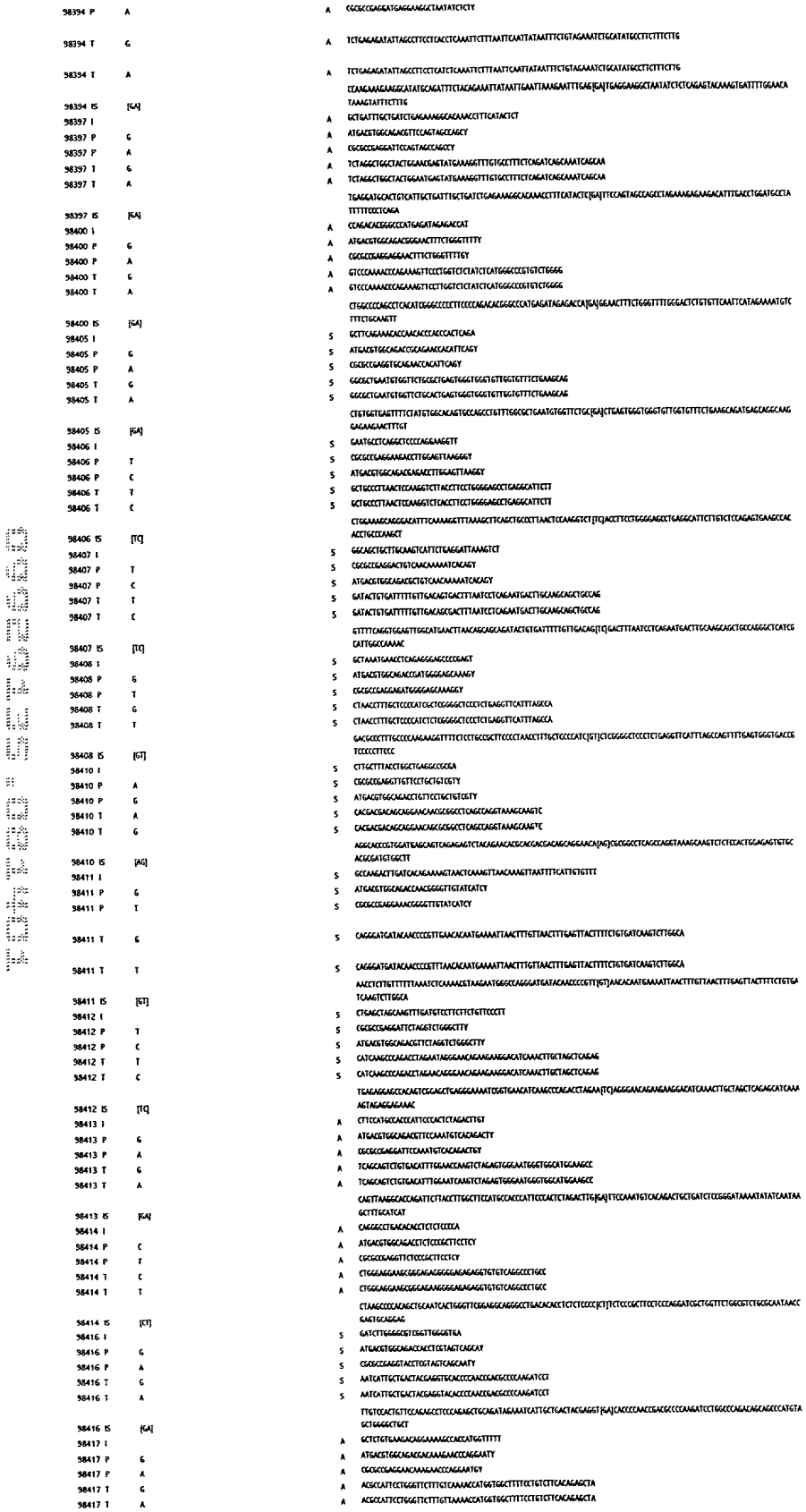
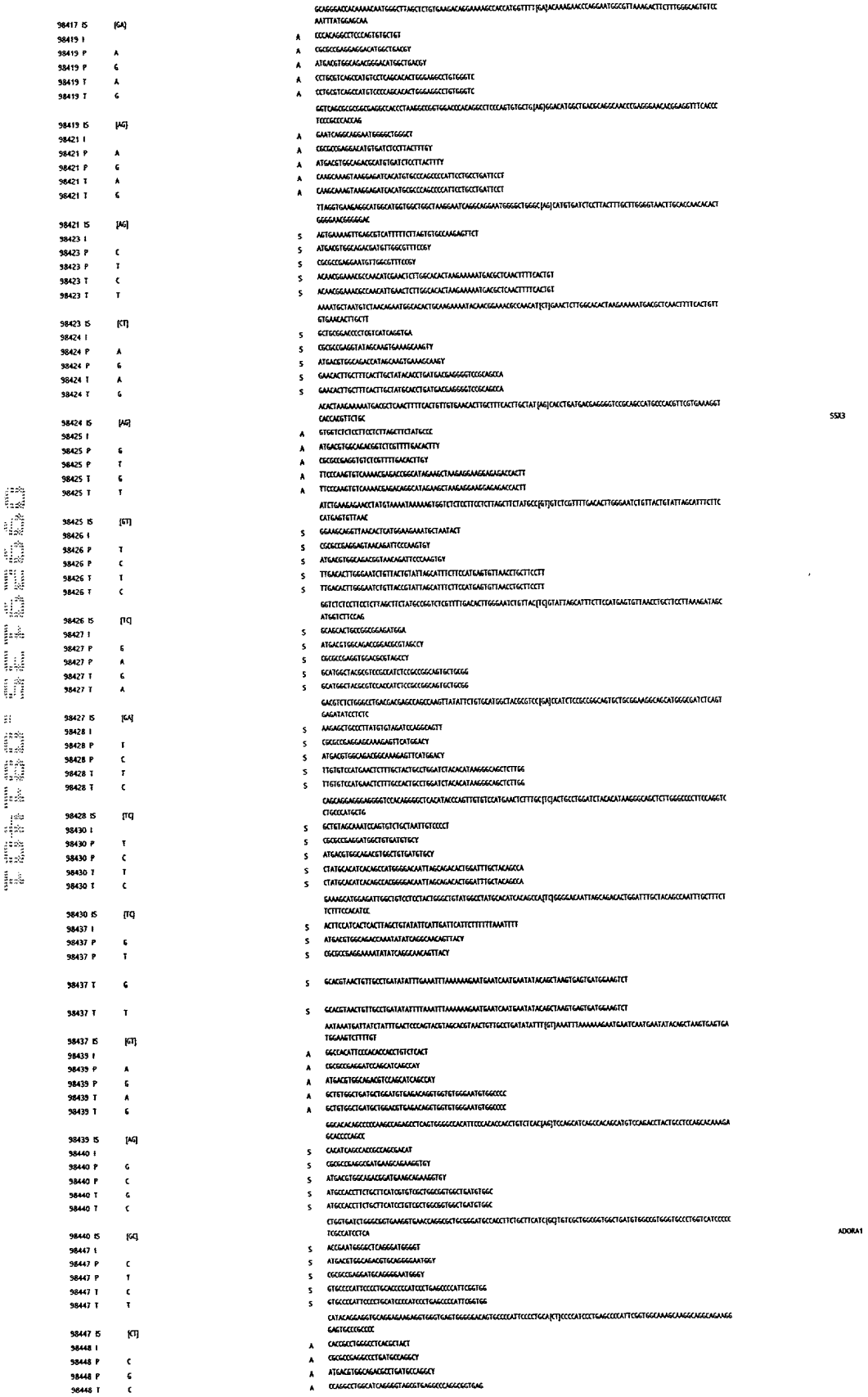


FIGURE 129C







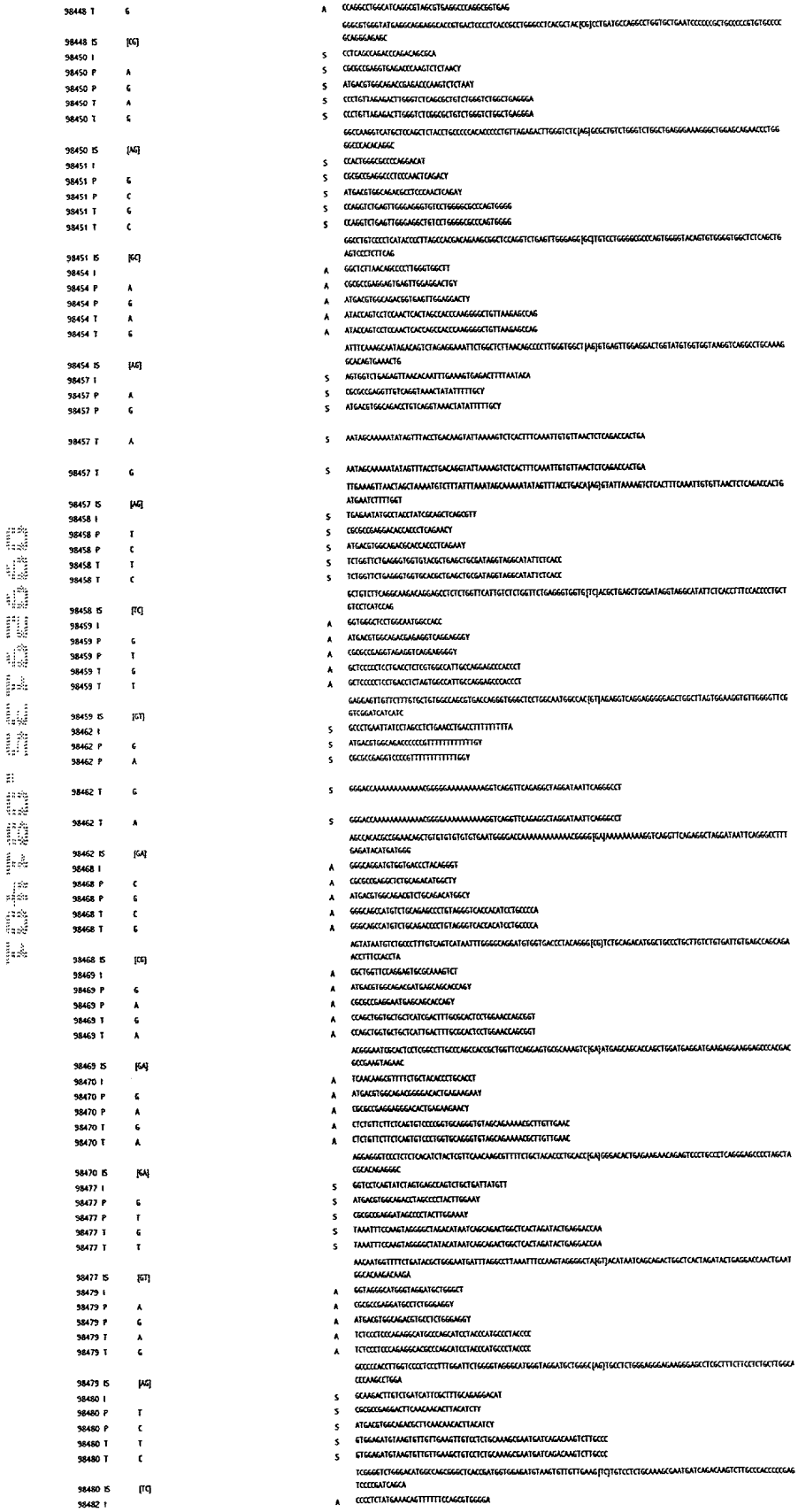


FIGURE 129C

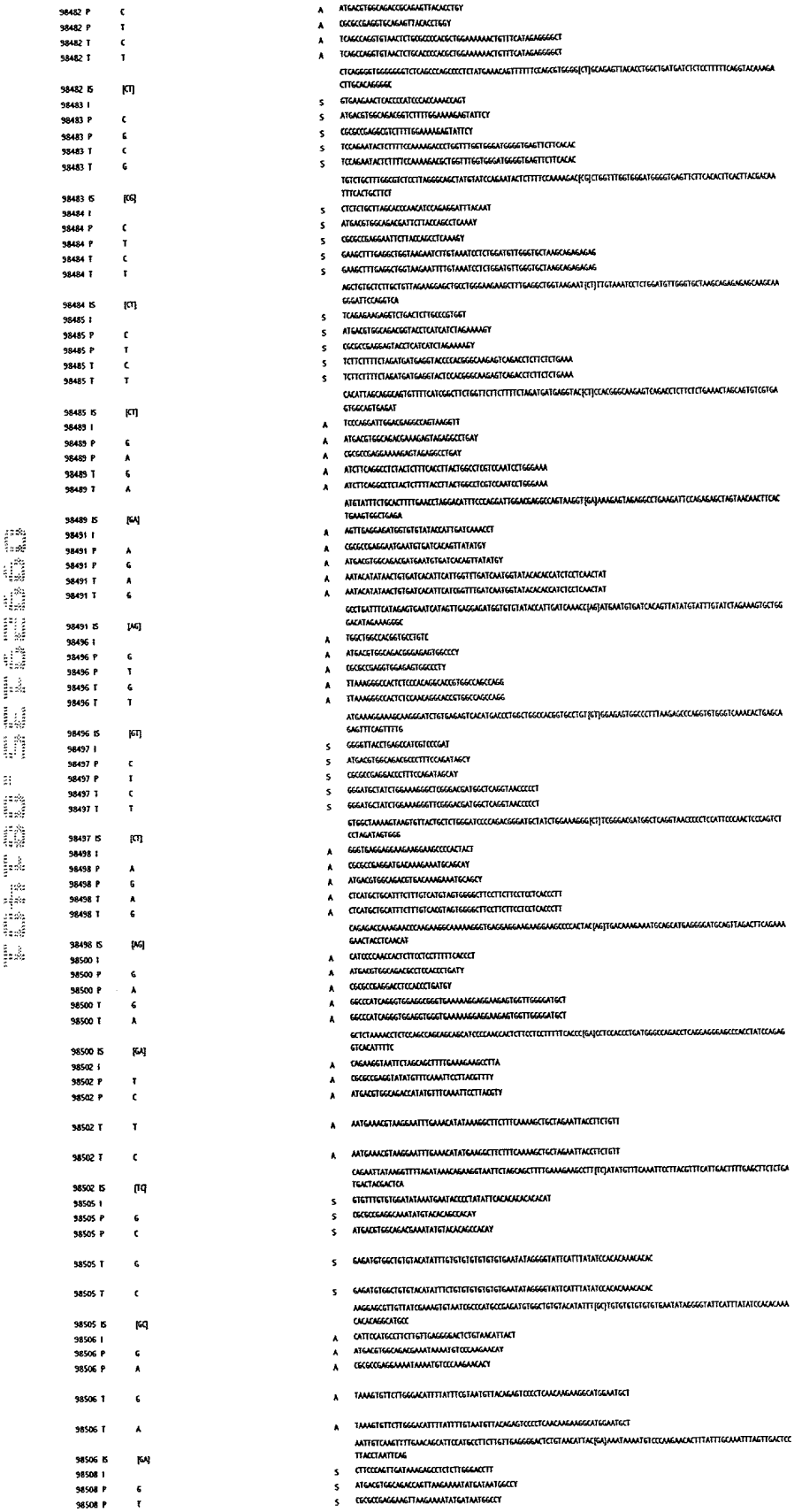
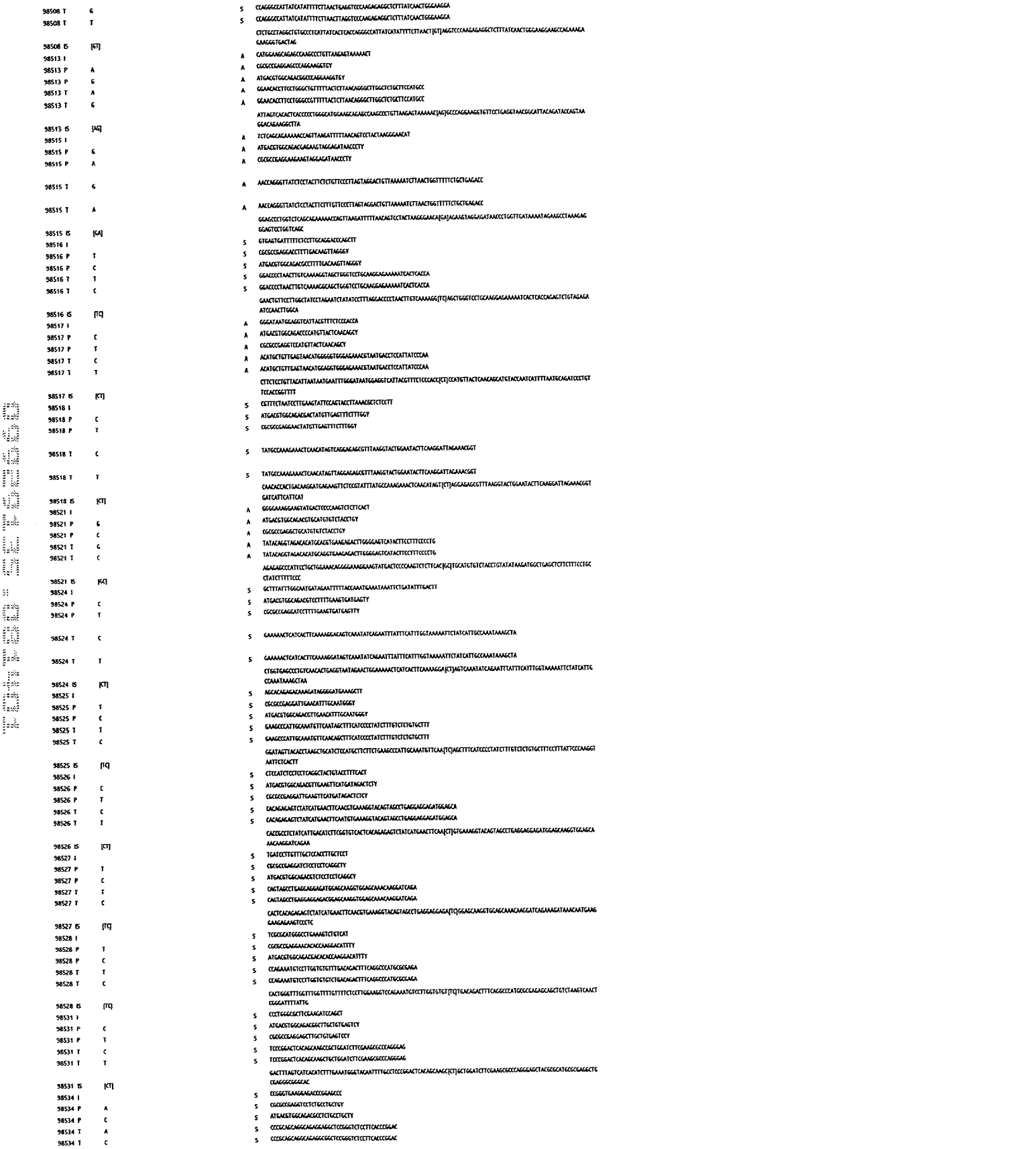


FIGURE 129C



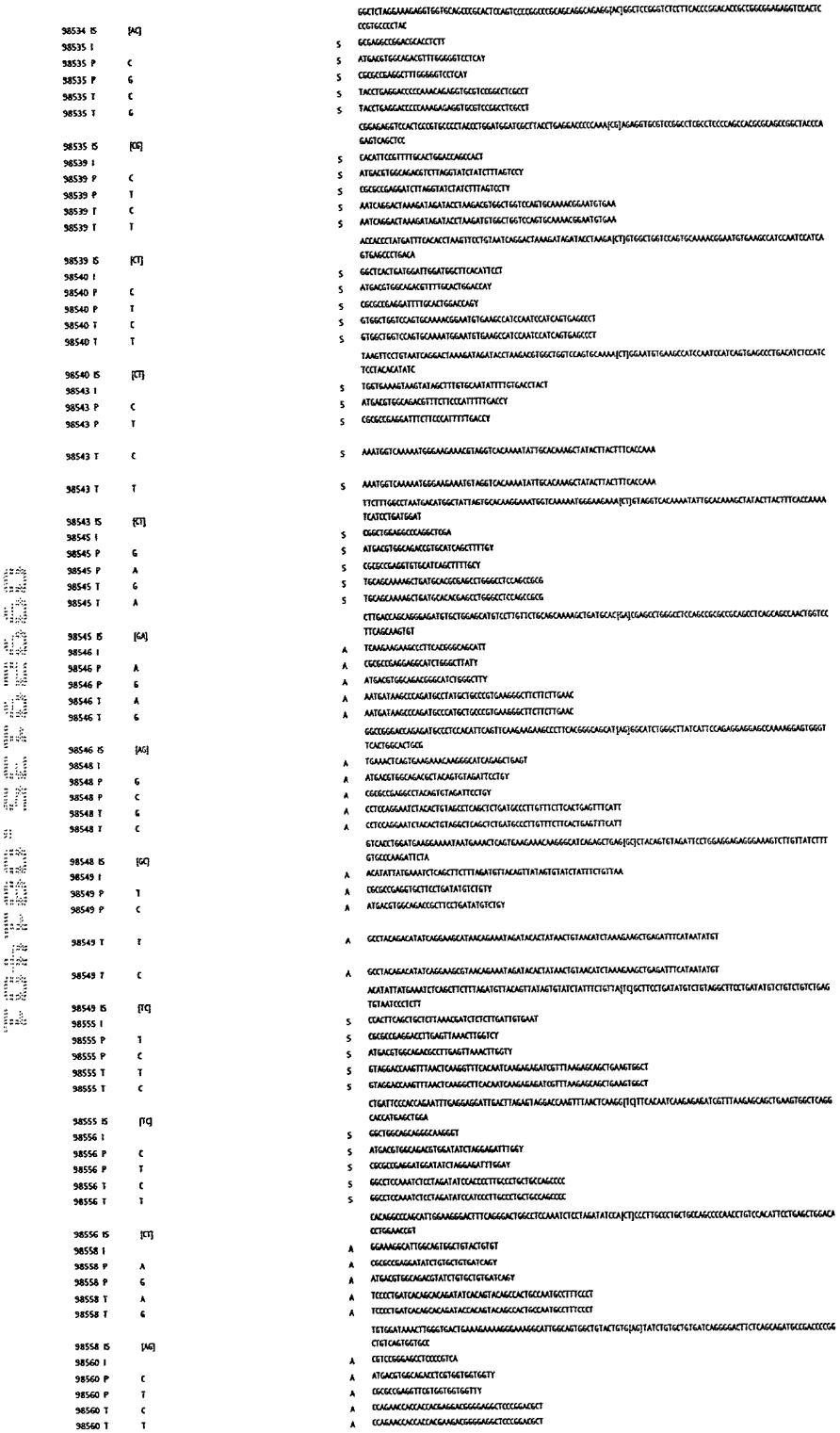
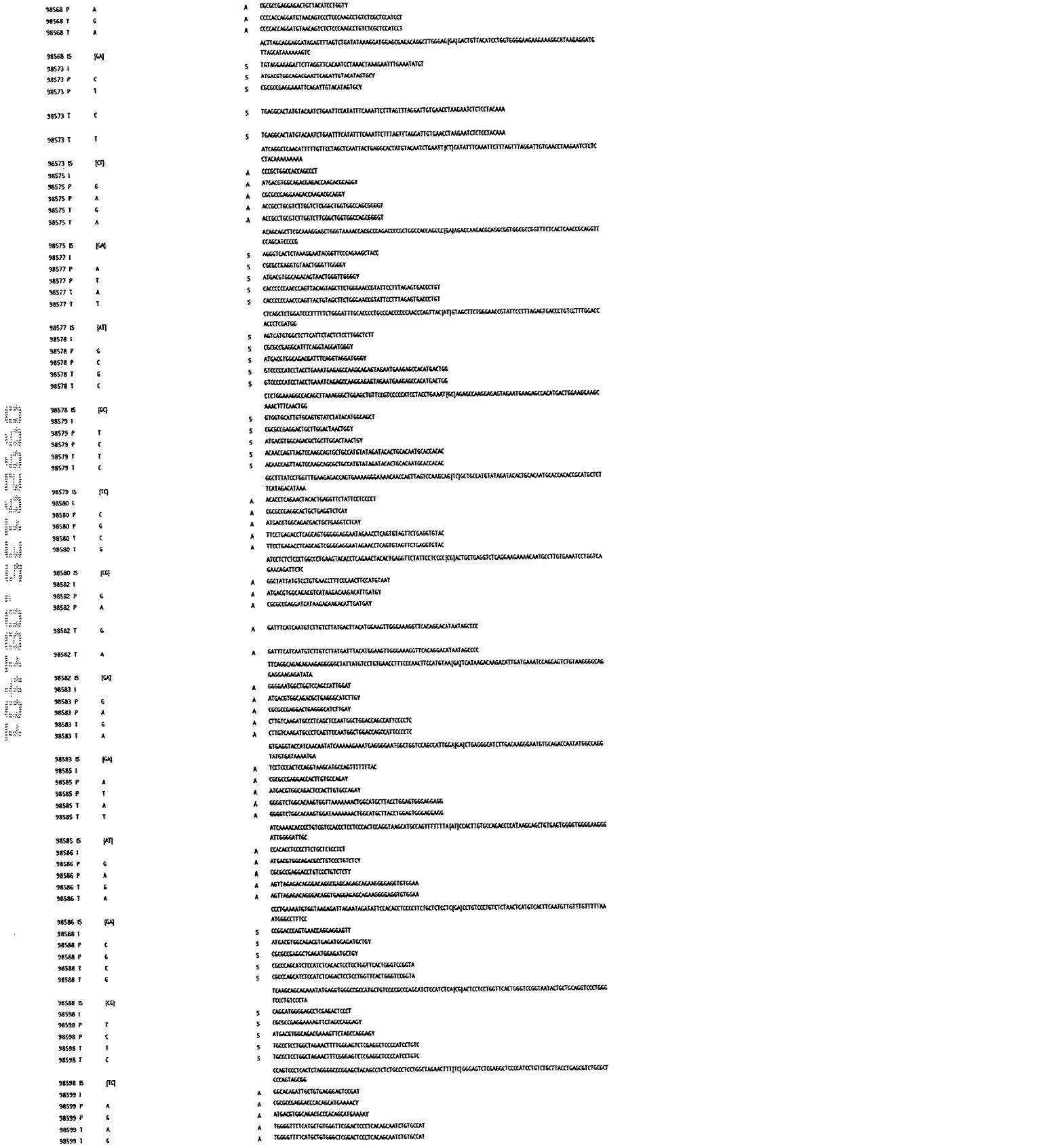
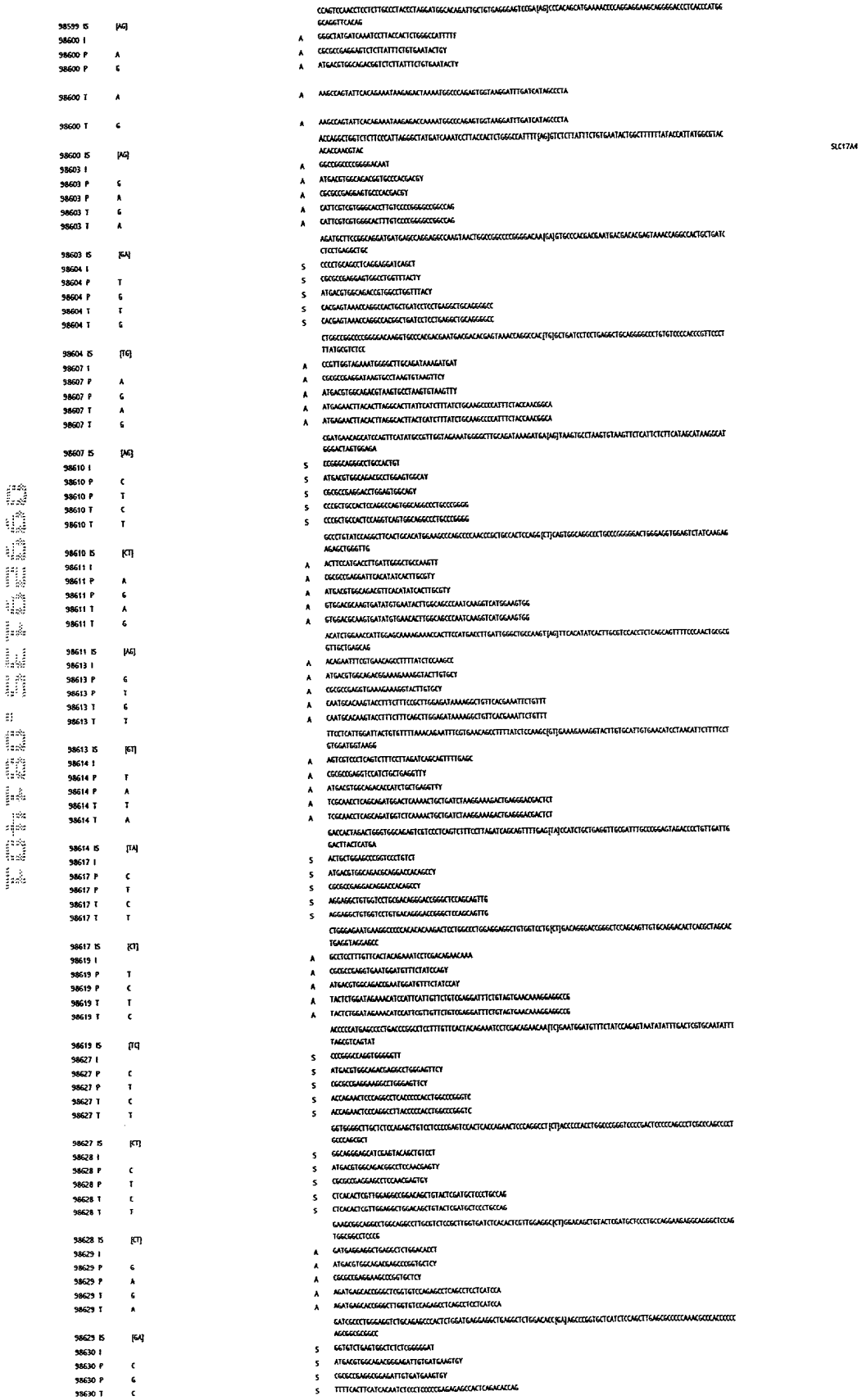


FIGURE 129C




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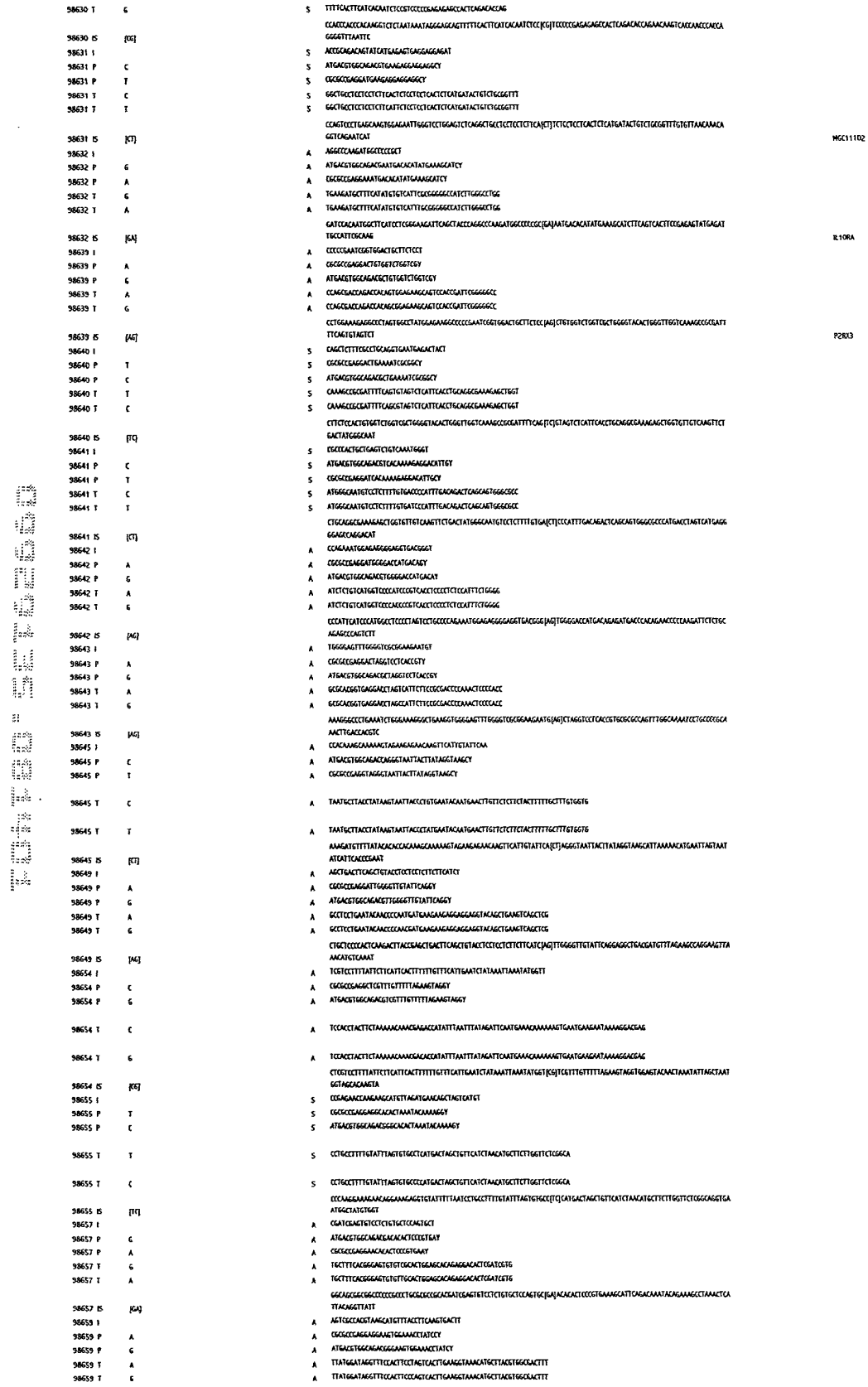

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98631 I S ACCGCAGACAGTATCATGAGAGTGAGGAGGAGAT
98631 P C S ATGACGTGGCAGACGTGAAGAGGAGGAGGCY
98631 P T S CGCGCCGAGGATGAAGAGGAGGAGGCY
98631 T C S GGCTGCTCCTCCTCTTCACTCTCCTCCTCACTCTCATGATACTGTCTGCGGTTT
98631 T T S GGCTGCTCCTCCTCTTCATTCTCCTCCTCACTCTCATGATACTGTCTGCGGTTT
98631 IS [CT] CCAGTCCCTGAGCAAGTGGAGAAATTGGGTCCTGGAGTCTCAGGCTGCCTCCTCCTCTTCA[CT]TCTCCTCCTCACTCTCATGATACTGTCTGCGGTTTGTGTTAACAAACA GGTCAGAATCAT MGC11102
98632 I A AGGCCCAAGATGGCCCCCGCT
98632 P G A ATGACGTGGCAGACGAATGACACATATGAAAGCATCY
98632 P A A CGCGCCGAGGAAAATGACACATATGAAAGCATCY
98632 T G A TGAAGATGCTTTCATATGTGTCATTTGCGCGGGGCCATCTTGGGCCTGG
98632 T A A TGAAGATGCTTTCATATGTGTCATTTGCGCGGGGCCATCTTGGGCCTGG
98632 IS [GA] GATCCACAATGGCTTCATCCTCGGGAAGATTCAGCTACCCAGGCCCAAGATGGCCCCCGC[GA]AATGACACATATGAAAGCATCTTCAGTCACTTCCGAGAGTATGAGAT TGCCATTCGCAAG IL10RA
98639 I C CCCCCGAATCGGTGGACTGCTTCTCCC
98639 P A A CGCGCCGAGGACTGTGGTCTGGTCGY
98639 P G A ATGACGTGGCAGACGCTGTGGTCTGGTCGY
98639 T A A CCAGCGACCAGACCACAGTGGAGAAGCAGTCCACCGATTCGGGGGCC
98639 T G A CCAGCGACCAGACCACAGCGGAGAAGCAGTCCACCGATTCGGGGGCC
98639 IS [AG] CCTGGAAAGAGGCCCTAGTGGCCTATGGAGAAGGCCCCCCAATCGGTGGACTGCTTCTCC[AG]CTGTGGTCTGGTCGCTGGGGTACACTGGGTTGGTCAAAGCCGCGATT TTCAGTGTAGTCT P2RX3
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98640 P T S CGCGCCGAGGACTGAAAATCGCGGCY
98640 P C S ATGACGTGGCAGACGCTGAAAATCGCGGCY
98640 T T S CAAAGCCGCGATTTTCAGCGTAGTCTCATTCACCTGCAGGCGAAAGAGCTGGT
98640 T C S CAAAGCCGCGATTTTCAGCGTAGTCTCATTCACCTGCAGGCGAAAGAGCTGGT
98640 IS [TC] CTTCTCCACTGTGGTCTGGTCGCTGGGGTACACTGGGTTGGTCAAAGCCGCGATTTTCAG[TC]GTAGTCTCATTCACCTGCAGGCGAAAGAGCTGGTGTTGTCAAGTTCT GACTATGGGCAAT
98641 I C CGCCCACTGCTGAGTCTGTCAAATGGGT
98641 P C S ATGACGTGGCAGACGTCACAAAAGAGGACATTGY
98641 P T S CGCGCCGAGGATCACAAAAGAGAACATTGCY
98641 T C S ATGGGCAATGTCCTCTTTTGTGACCCCATTTGCACAGACTCAGCAGTGGGCCCC
98641 T T S ATGGGCAATGTCCTCTTTTGTGATCCCATTTGCACAGACTCAGCAGTGGGCCCC
98641 IS [CT] CTGCAGGCGAAAGAGCTGGTGTTGTCAAGTTCTGACTATGGGCAATGTCCTCTTTTGTGA[CT]CCCATTTGACAGACTCAGCAGTGGGCCCCATGACCTAGTCATGAGG GGACCCAGCACAT
98642 I A CCAGAAATGGAGAGGGGAGGTGACGGGT
98642 P A A CGCGCCGAGGATGGGGACCATGACAGY
98642 P G A ATGACGTGGCAGACGTGGGGACCATGACAT
98642 T A A ATCTCTGTCATGGTCCCCATCCGTCACCTCCCCTCTCCATTTCTCTGGGG
98642 T G A ATCTCTGTCATGGTCCCCACCCCGTCACCTCCCCTCTCCATTTCTCTGGGG
98642 IS [AG] CCCATTCATCCCATGGCCTCCCCTAGTCCTGCCCCAGAAATGGAGAGGGGAGGTGACGGG[AG]TGGGGACCATGACAGAGATGACCCACAGAACCCCCAAGATTCTCTGC AGAGCCAGTCTT
98643 I C TGGGGAGTTTGGGGTCGCGGAAGAATGT
98643 P A A CGCGCCGAGGAACTAGGTCCTCACCGTY
98643 P G A ATGACGTGGCAGACGCTAGGTCCTCACCGY
98643 T A A GCGCACGGTGAGGAACTAGTCATTCTCCCGCGACCCCAAACTCCCCACC
98643 T G A GCGCACGGTGAGGAACTAGCCATTCTCCCGCGACCCCAAACTCCCCACC
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98645 I A CCACAAGCAAAAAGTAGAAGAGAACAAGTTCATTGTATTCAA
98645 P C A ATGACGTGGCAGACTAGGGTAATTACTTATAGGTAAGCY
98645 P T A CGCGCCGAGGTAGGGTAATTACTTATAGGTAAGCY
98645 T C A TAATGCTTACCTATAAGTAATTACCCTGTGAATACAATGAACTTGTTCTCTTCTACTTTTTGCTTTGTGGTG
98645 T T A TAATGCTTACCTATAAGTAATTACCCTATGAATACAATGAACTTGTTCTCTTCTACTTTTTGCTTTGTGGTG
98645 IS [CT] AAAGATGTTTTATACACACCACAAAGCAAAAAGTAGAAGAGAACAAGTTCATTGTATTCA[CT]AGGGTAATTACTTATAGGTAAGCATTAAAAACATGAATTAGTAAT ATCATTCACCCGAAT
98649 I A AGCTGACTTCAGCTGTACCTCCTCCTCTTCATCY
98649 P A A CGCGCCGAGGATTGGGGTTGTATTCAGGY
98649 P G A ATGACGTGGCAGACGTTGGGGTTGTATTCAGGY
98649 T A A GCCTCCTGAATACAACCCCAATGATGAAGAAGAGGAGGAGGAGGTACAGCTGAAGTCAGCTCG
98649 T G A GCCTCCTGAATACAACCCCAACGATGAAGAAGAGGAGGAGGAGGTACAGCTGAAGTCAGCTCG
98649 IS [AG] CTGCTCCCCACTCAAGACTTACCGAGCTGACTTCAGCTGTACCTCCTCCTCTTCATC[AG]TTGGGGTTGTATTCAGGAGGCTGACGATGTTTAGAAGCCAGGAAGTTA AACATGTCAAAT
98654 I A TCGTCCTTTTATTCTCATTCACTTTTTGTTTCATTGAATCTATAAATTAAATATGGTT
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98654 P G A ATGACGTGGCAGACGTCGTTTGTTTTTAGAAGTAGGY
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98655 P T S CGCGCCGAGGAGGCACACTAAATACAAAAGGY
98655 P C S ATGACGTGGCAGACGGGCACACTAAATACAAAAGY
98655 T T S CCTGCCTTTTGTATTTAGTGTGCCTCATGACTAGCTGTTCATCTAACATGCTTCTTGGTTCTCGGCA
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98655 IS [TC] CCCAAGGAAAGAACAGGAAAGAGGTGTATTTTTAATCCTGCCTTTTGTATTTAGTGTGCCC[TC]CATGACTAGCTGTTCATCTAACATGCTTCTTGGTTCTCGGCAGGTGA ATGGCTATGTGGT
98657 I A CGATCGAGTGTCCTCTGTGCTCCAGTGCT
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98657 P A A CGCGCCGAGGAACACACTCCCGTGAAY
98657 T G A TGCTTTCACGGCAGTGTGTCGCACTGGAGCACAGAGGACACTCGATCGTG
98657 T A A TGCTTTCACGGCAGTGTGTTGCACTGGAGCACAGAGGACACTCGATCGTG
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98659 I A AGTCGCCAGGTAAGCATGTTTACCTTCAAGTGACTT
98659 P A A CGCGCCGAGGAGGAAGTGGAAACCTATCCY
98659 P G A ATGACGTGGCAGACGGGAAGTGGAAACCTATCY
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FIGURE 129C

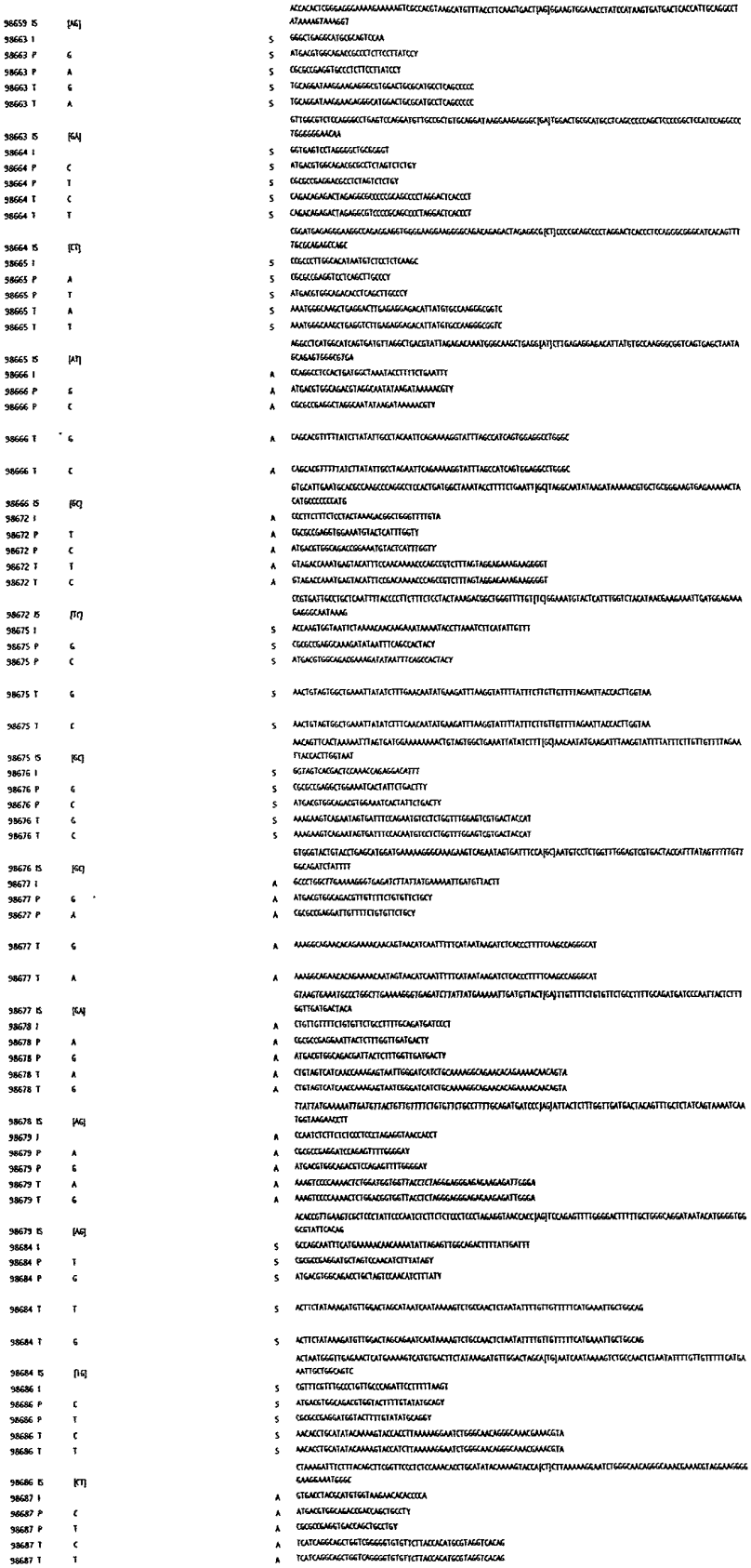
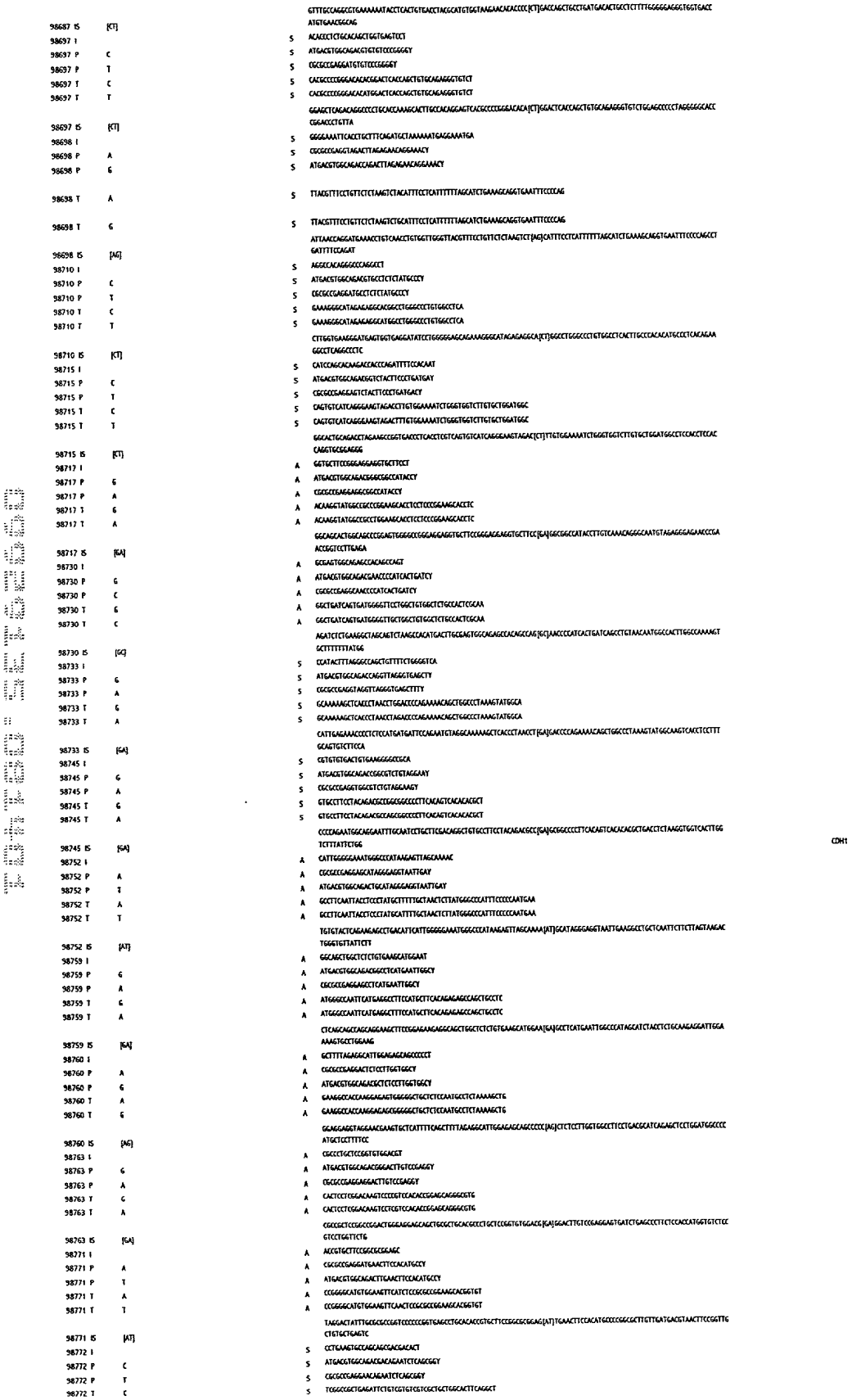
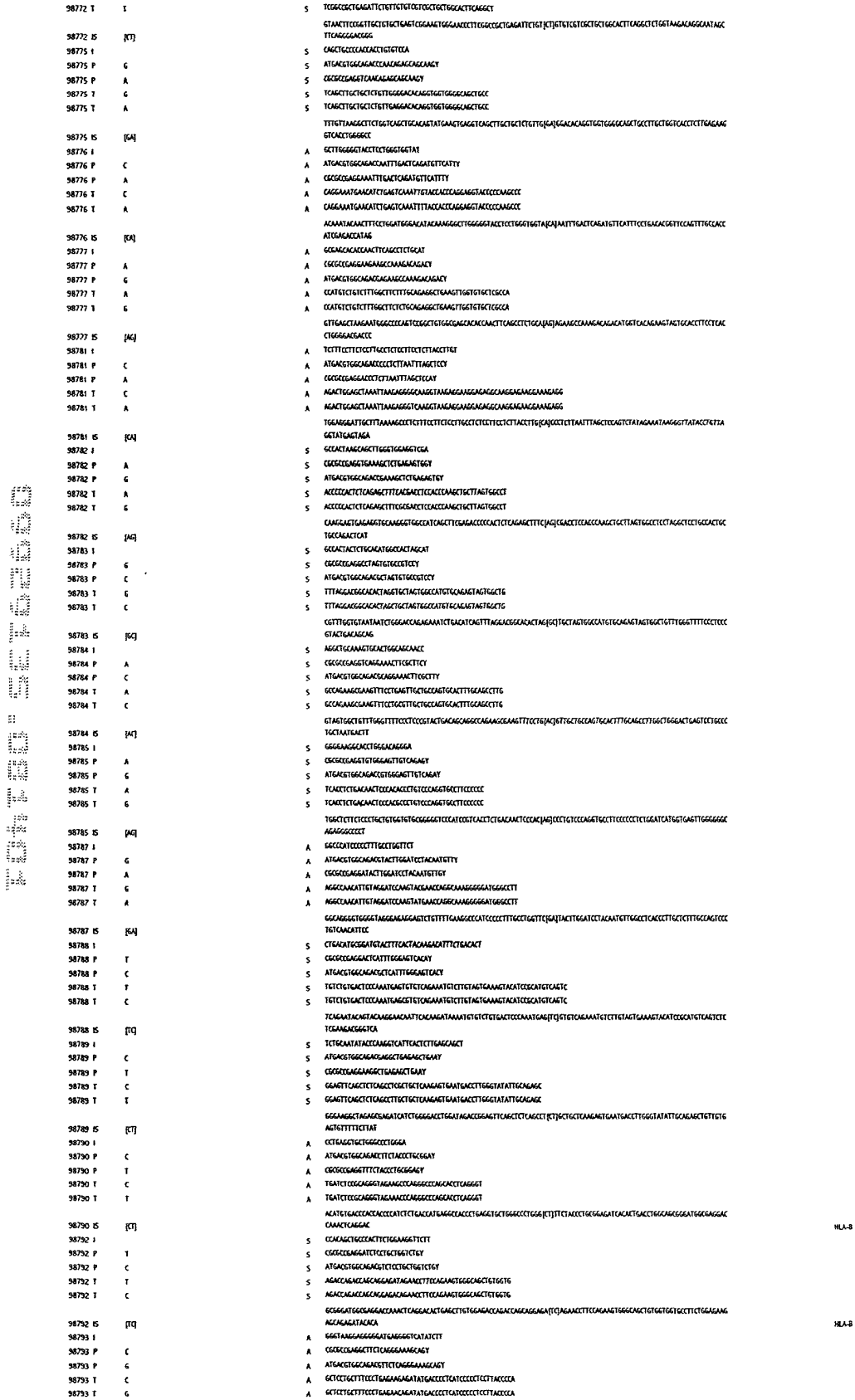


FIGURE 129C




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98772 IS [CT] GTAACTTCCGGTTGCTGCTGACTCGGAAGTGGGAACCCTTCGGCCGCTGAGATTCTGT[CT]GTCGTCGCTGCTGGCACTTCAGGCTCTGGTAAGACAGGCAATAGC TTCAGGGGACGGG
98775 I S CAGCTGCCCCACCACCTGTGTCCA
98775 P G S ATGACGTGGCAGACCCAACAGCAGCAAGY
98775 P A S CGCGCCGAGGTCAACAGAGCAACAGY
98775 T G S TCAGCTTGCTGCTCTGTTGGGGACACAGGTGGTGGGGCAGCTGCC
98775 T A S TCAGCTTGCTGCTCTGTTGAGGACACAGGTGGTGGGGCAGCTGCC
98775 IS [GA] TTTGTTAAGGCTCTGGTCAGCTGCACAGTATGAAGTGAGGTCAGCTTGCTGCTCTGTTG[GA]GGACACAGGTGGTGGGGCAGCTGCCTTGCTGGTCACCTCTTGAGAAG GTCACCTGGGGCC
98776 I A GCTTGGGGGTACCTCCTGGGTGGTAT
98776 P C A ATGACGTGGCAGACCAATTTGACTCAGATGTTCATTY
98776 P A A CGCGCCGAGGAAATTTGACTCAGATGTTCATTTY
98776 T C A CAGGAAATGAACATCTGAGTCAAATTTACCACCCAGGAGGTACCCCCAAGCCC
98776 T A A CAGGAAATGAACATCTGAGTCAAATTTTACCACCCAGGAGGTACCCCCAAGCCC
98776 IS [CA] ACAAATACAACTTTCCTGGATGGGACATACAAAGGGCTTGGGGGTACCTCCTGGGTGGTA[CA]AATTTGACTCAGATGTTCATTTCCTGACACGGTTCCAGTTTGCCACC ATCGAGACCATAG
98777 I A GCCAGCACACCAACTTCAGCCTCTGCAT
98777 P A A CGCGCCGAGGAAGAAGCCAAGACAGACY
98777 P G A ATGACGTGGCAGACGAGAAGCCAAGACAGACY
98777 T A A CCATGTCTGTCTTTGGCTTCTTTGCAGAGGCTGAAGTTGGTGTGCTCGCCA
98777 T G A CCATGTCTGTCTTTGGCTTCTCTGCAGAGGCTGAAGTTGGTGTGCTCGCCA
98777 IS [AG] GTTGAGCTAAGAATGGGCCCCAGTCCGGCTGTGGCGAGCACACCAACTTCAGCCTCTGCA[AG]AGAAGCCAAAGACAGACATGGTCACAGAAGTAGTGCACCTTCCTCAC CTGGGGACGACCC
98781 I A TCTTTCCTTCTCCTTGCCTCTCCTCCTTCTCTTACCTTGT
98781 P C A ATGACGTGGCAGACCCCTCTTAATTTAGCTCCY
98781 P A A CGCGCCGAGGAACCTCTTAATTTAGCTCCAY
98781 T C A AGACTGGAGCTAAATTAAGAGGGCAAGGTAAGAGGAAGGAGAGCCAAGGAGAAGGAAAGAGG
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98782 P A S CGCGCCGAGGTGAAAGCTCTGAGAGTGGY
98782 P G S ATGACGTGGCAGACGGAAAGCTCTGAGAGTGY
98782 T A S ACCCCCACTCTCAGAGCTTTCACGAACTCCACCCAAGCTGCTTAGTGGCCT
98782 T G S ACCCCCACTCTCAGAGCTTTCGGSAACTCCACCCAAGCTGCTTAGTGGCCT
98782 IS [AG] CAAGAAGTGAGAGGTGCAAGGGTGGCCATCAGCTTCGAGACCCCCACTCTCAGAGCTTTC[AG]CGACCTCCACCCAAGCTGCTTAGTGGCCTCCTAGCCTCCTGCCACTGC TGCCAGACTCAT
98783 I S GCCACTACTCTGCACATGGCCACTAGCAT
98783 P G S CGCGCCGAGGCCTAGTGTGCCCTCCY
98783 P C S ATGACGTGGCAGACGCTAGTGTGCCSTCCY
98783 T G S TTTAGGACGGCACACTAGGTGCTAGTGGCCATGTGCAGAGTAGTGGCTG
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98784 P A S CGCGCCGAGGTCAGGAAACTTCGCTTCY
98784 P C S ATGACGTGGCAGACGCAGGAAACTTCGCTTY
98784 T A S GCCAGAAGCGAAGTTTCCTGAGTTGCTGCCAGTGCACTTTGCAGCCTTG
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98785 P A S CGCGCCGAGGTGTGGGAGTTGTCAGAGY
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98785 T G S TCACCTCTGACAACTCCCAGCCCTGTCCCAGGTGCCTTCCCCCC
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98787 I A GGCCCATCCCCCTTTGCCTGGTTCT
98787 P G A ATGACGTGGCAGACGTACTTGGATCCTACAATGTTY
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98788 P T S CGCGCCGAGGACTCATTTGGGAGTCACAY
98788 P C S ATGACGTGGCAGACGCTCATTTGGGAGTCACY
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98789 P T S CGCGCCGAGGAAGGCTGAGAGCTGAAY
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98790 P C A ATGACGTGGCAGACCTTCTACCCTGCGGAY
98790 P T A CGCGCCGAGGTTTCTACCCTGCGGAGY
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98793 P C A CGCGCCGAGGCTTCTCAGGGAAAGCAGY
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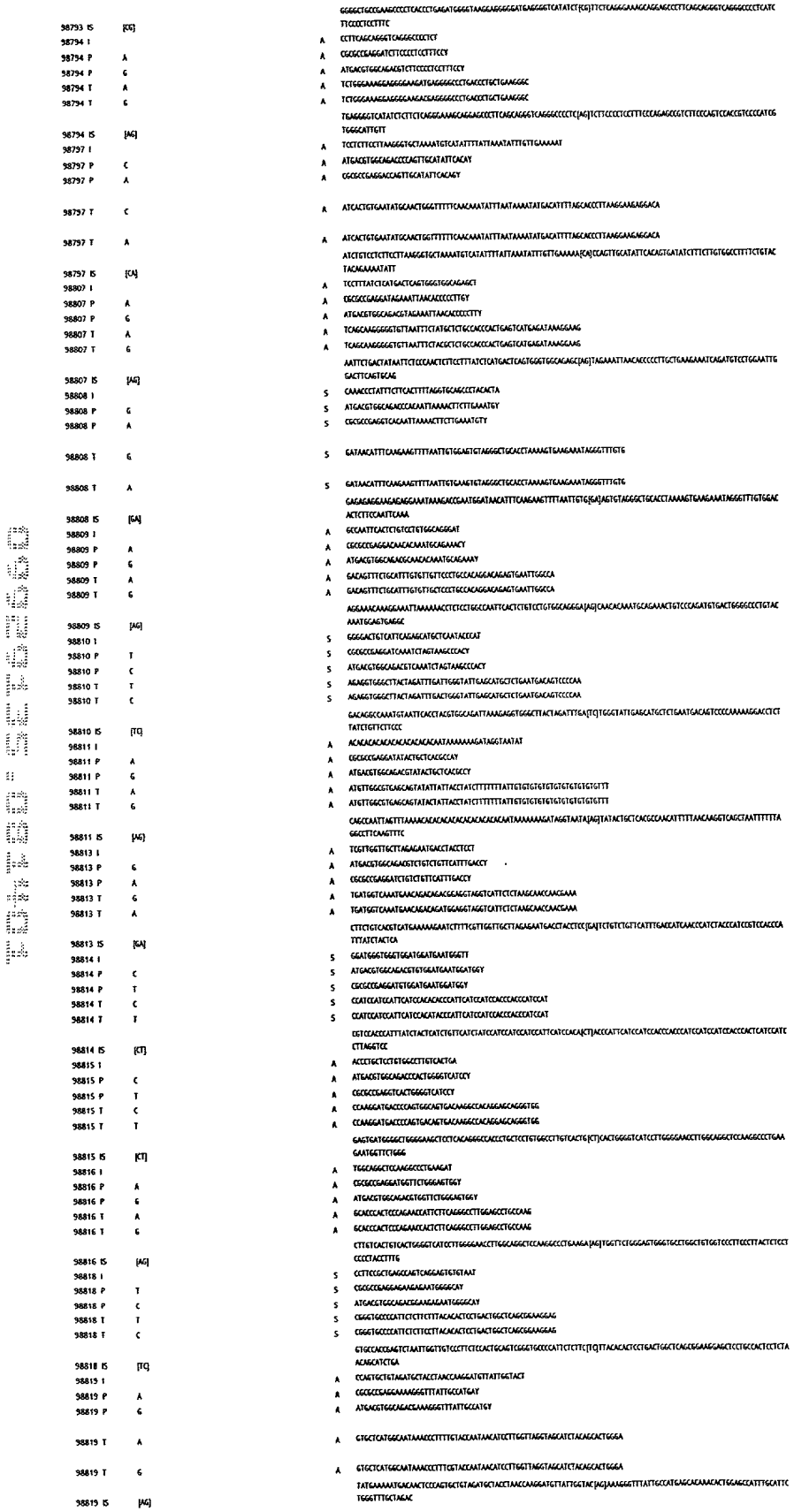


FIGURE 129C

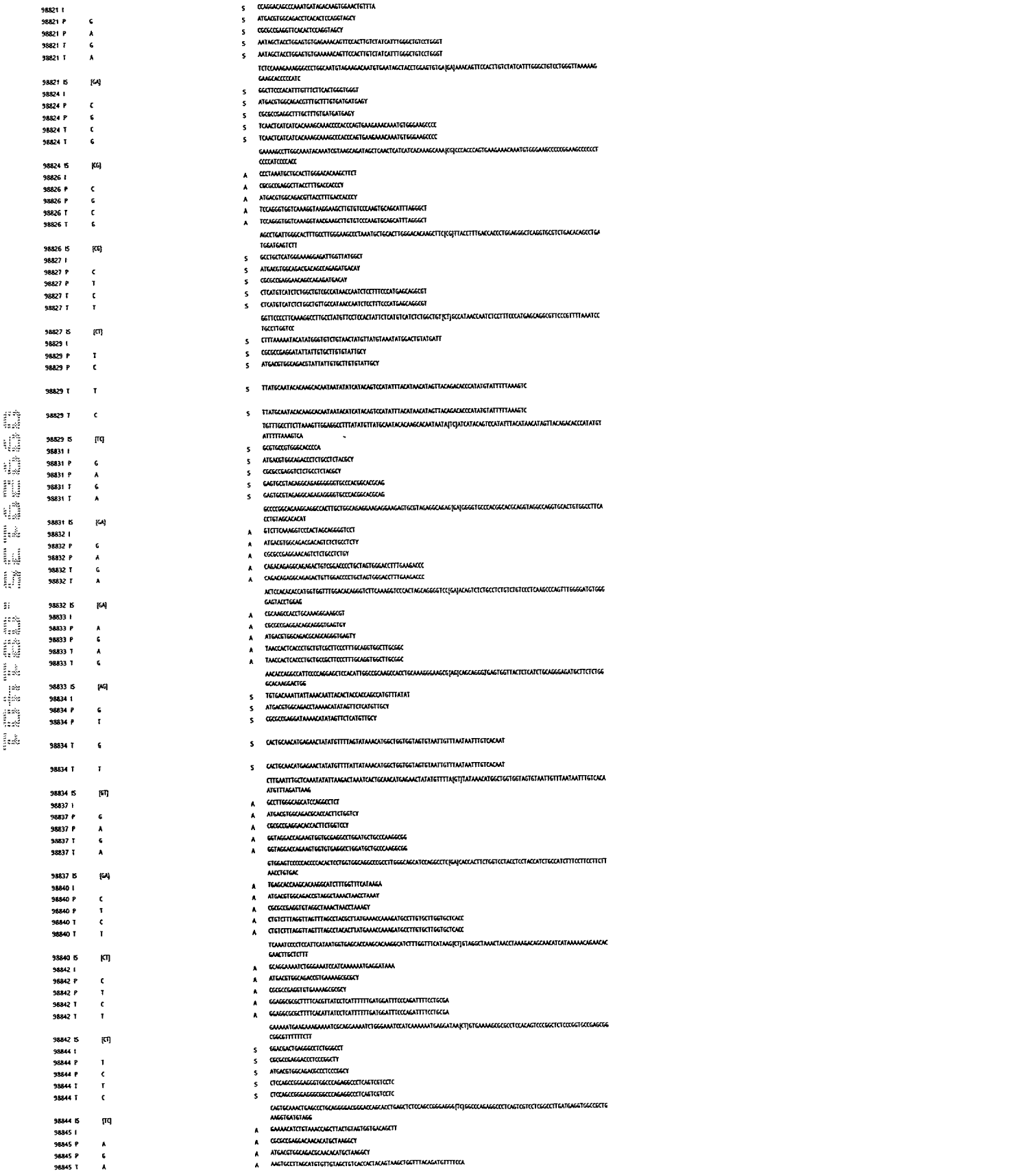


FIGURE 129C

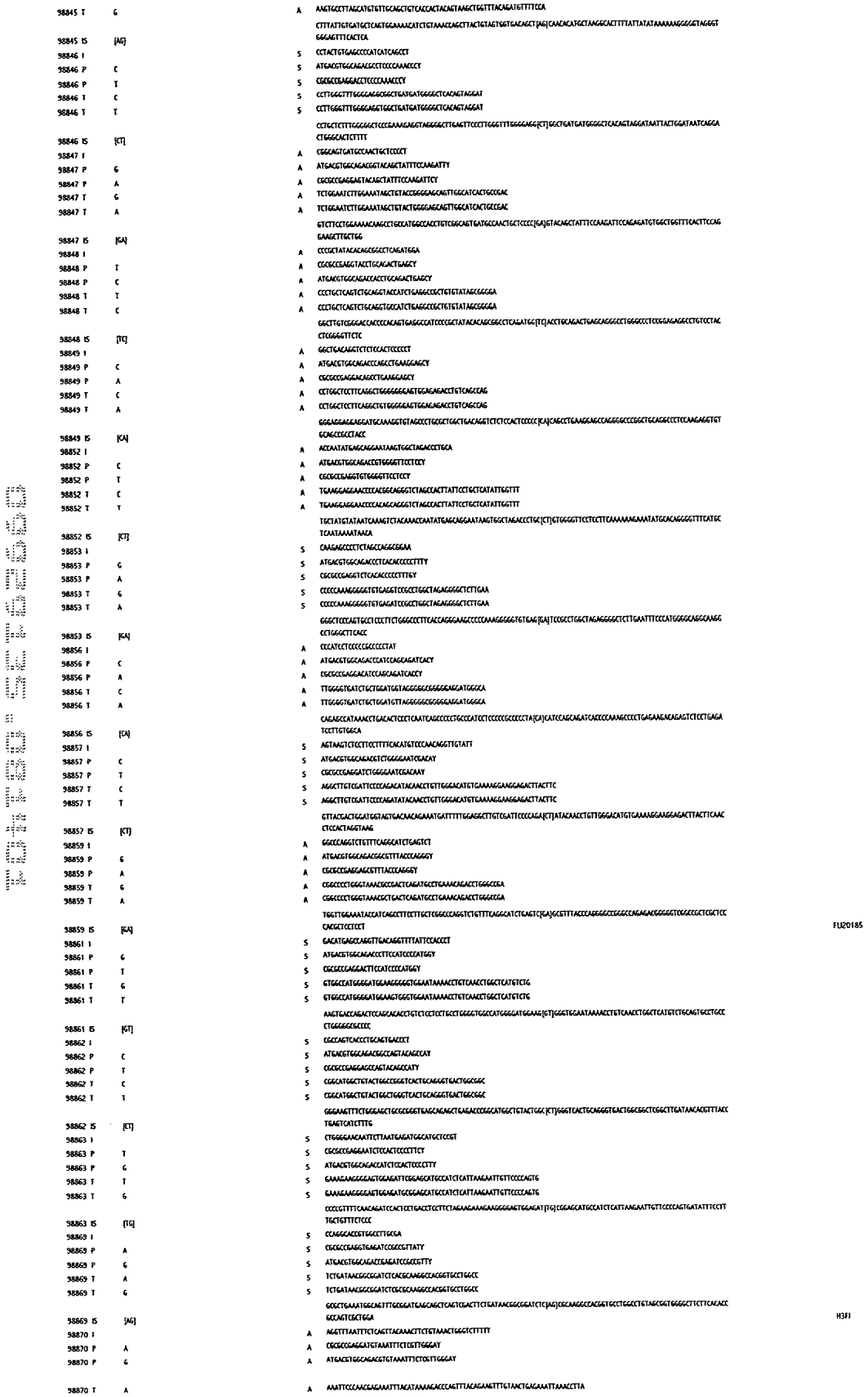
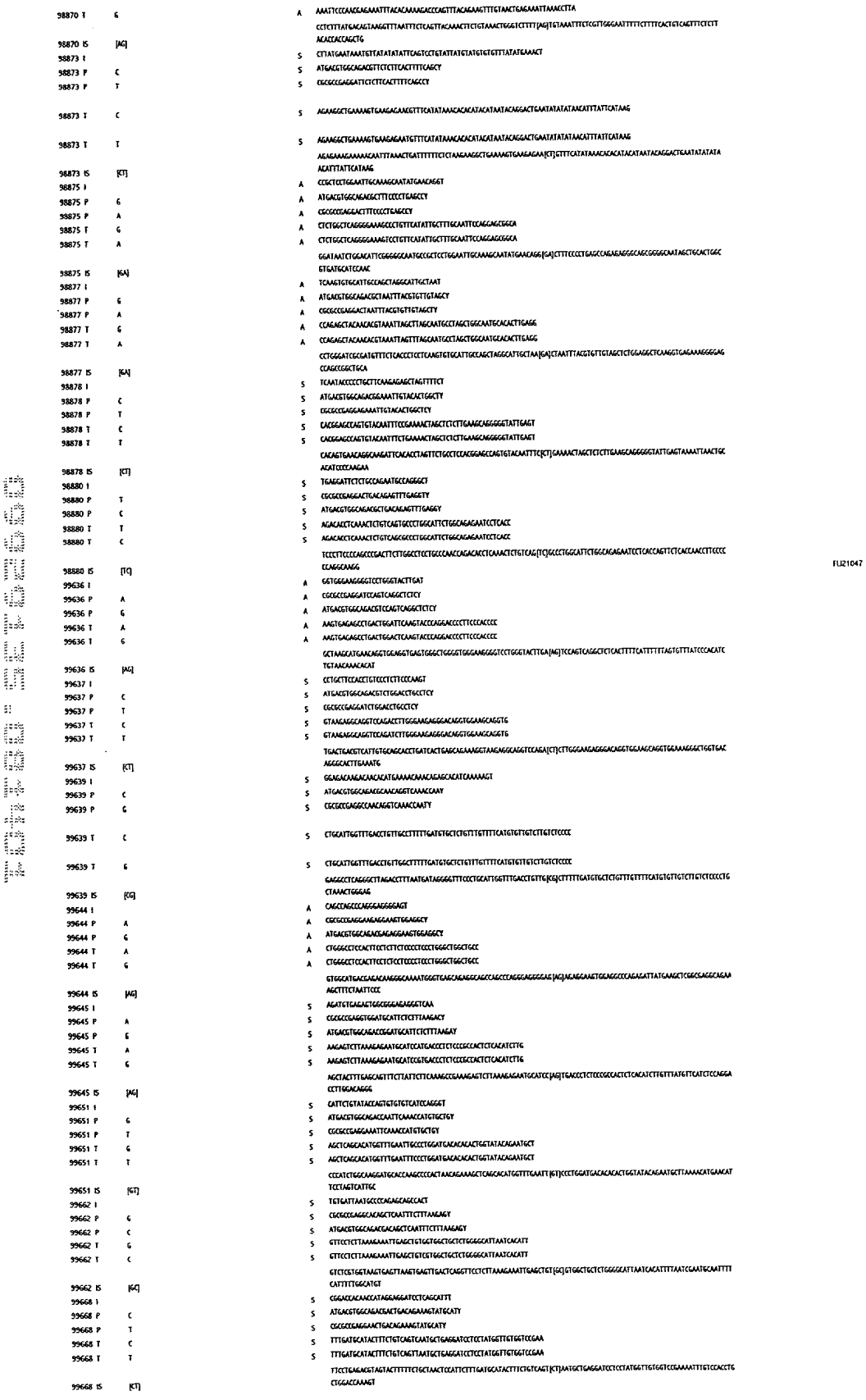

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98846 I S CCTACTGTGAGCCCCATCATCAGCCT
98846 P C S ATGACGTGGCAGACGCCTCCCCAAACCCY
98846 P T S CGGCCCGAGGACCTCCCCAAACCCY
98846 T C S CCTTGGGTTTGGGCAGGCGGCTGATGATGGGGCTCACAGTAGGAT
98846 T T S CCTTGGGTTTGGGCAGGTGGCTGATGATGGGGCTCACAGTAGGAT
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98847 P G A ATGACGTGGCAGACGGTACAGCTATTTCCAAGATTY
98847 P A A CGCGCCGAGGAGTACAGCTATTTCCAAGATTCY
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98848 P C A ATGACGTGGCAGACACCTGCAGACTGAGCY
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98852 P T A CGCGCCGAGGTGTGGGGTTCCTCCY
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98853 P A S CGCGCCCAGGTCTCACACCCCCTTTGY
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98856 P C A ATGACGTGGCAGACCCATCCAGCAGATCACY
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98857 I S AGTAAGTCTCCTTCCTTTCACATGTCCCAACAGGTTGTATT
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98857 P T S CGCGCCGAGGATCTGGGGAATCGACAAY
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98869 P A S CGCGCCGAGGTGAGATCCGCCGTTATY
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FIGURE 129C



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FIGURE 129C

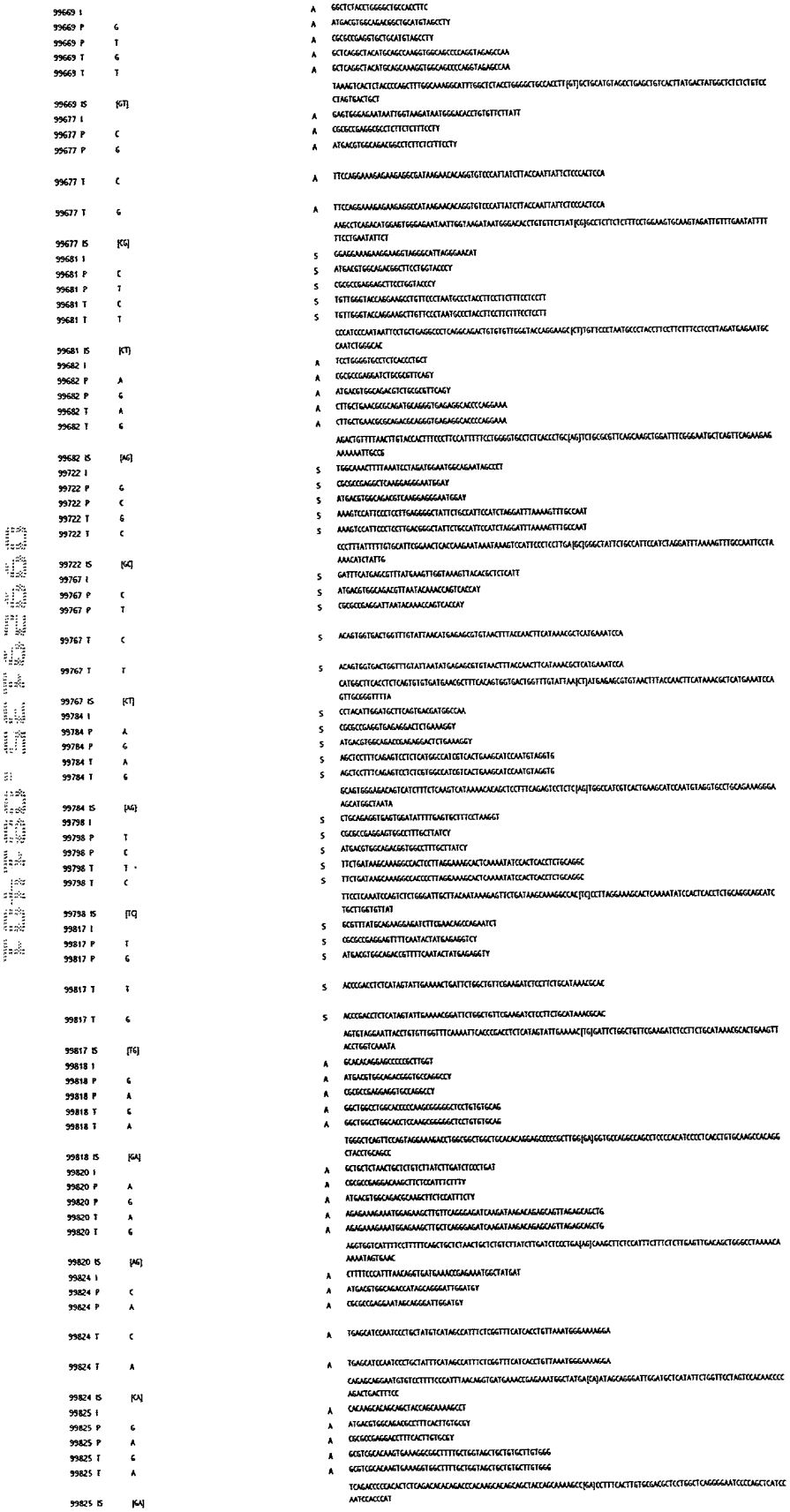


FIGURE 129C

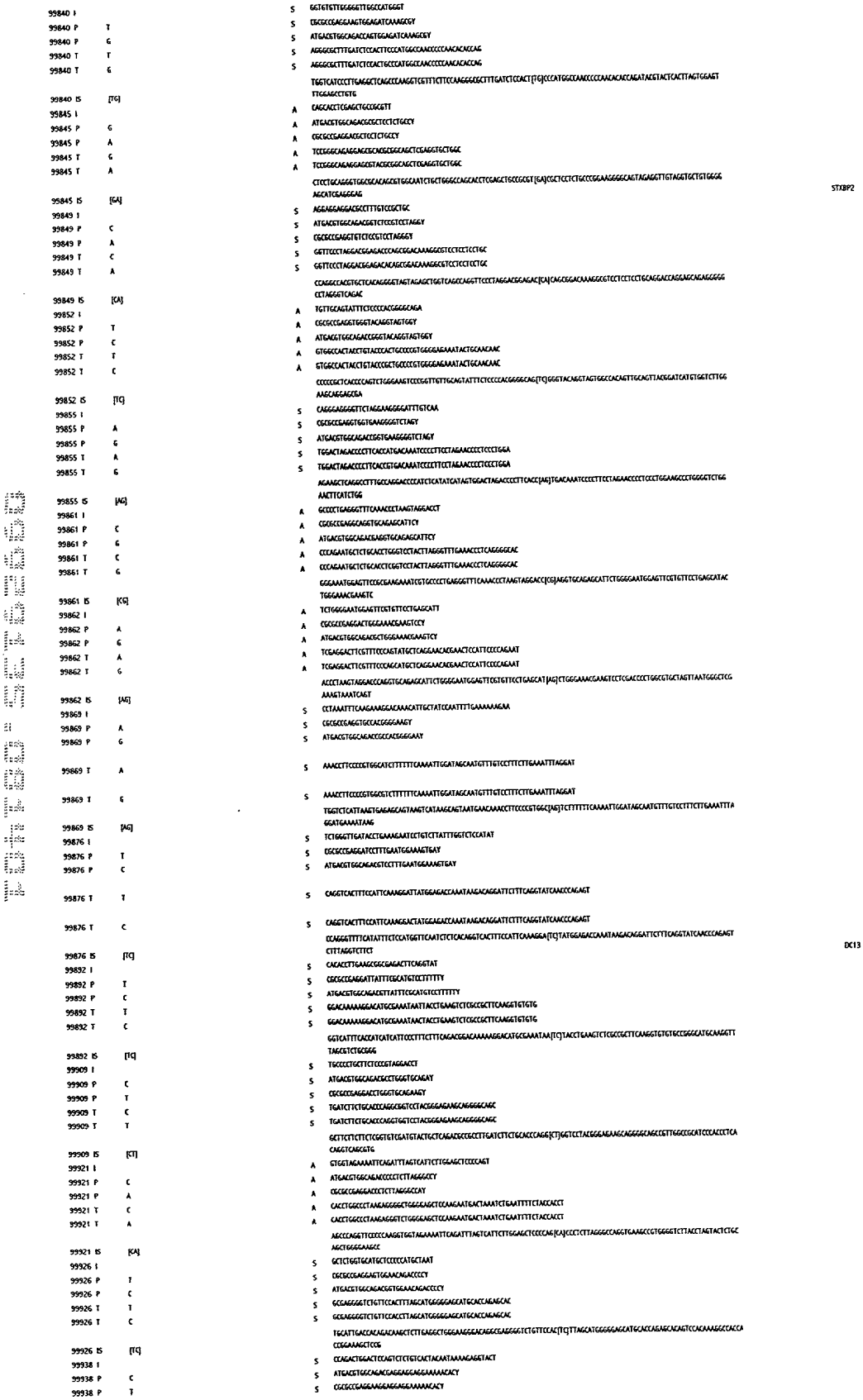


FIGURE 129C

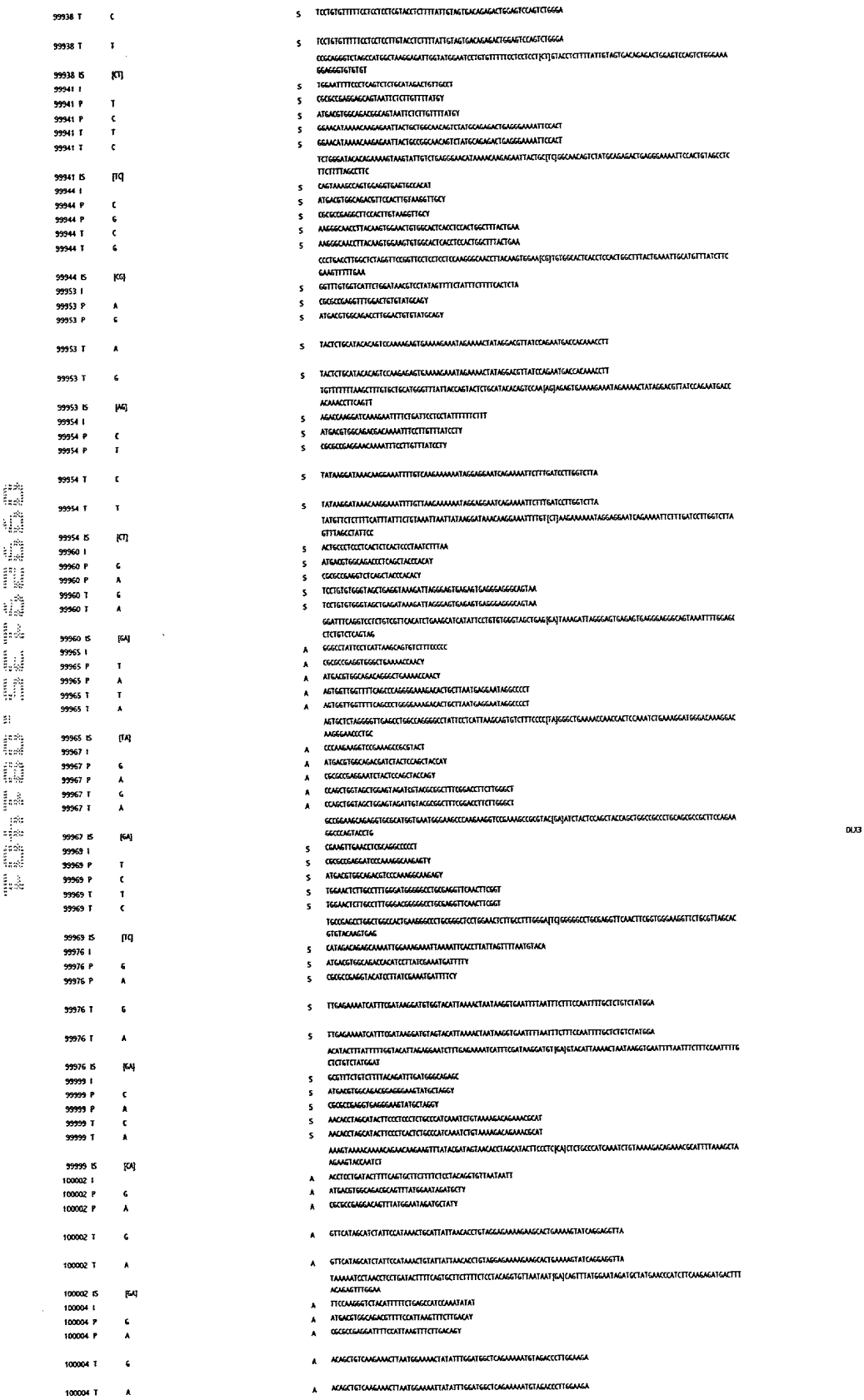


FIGURE 129C

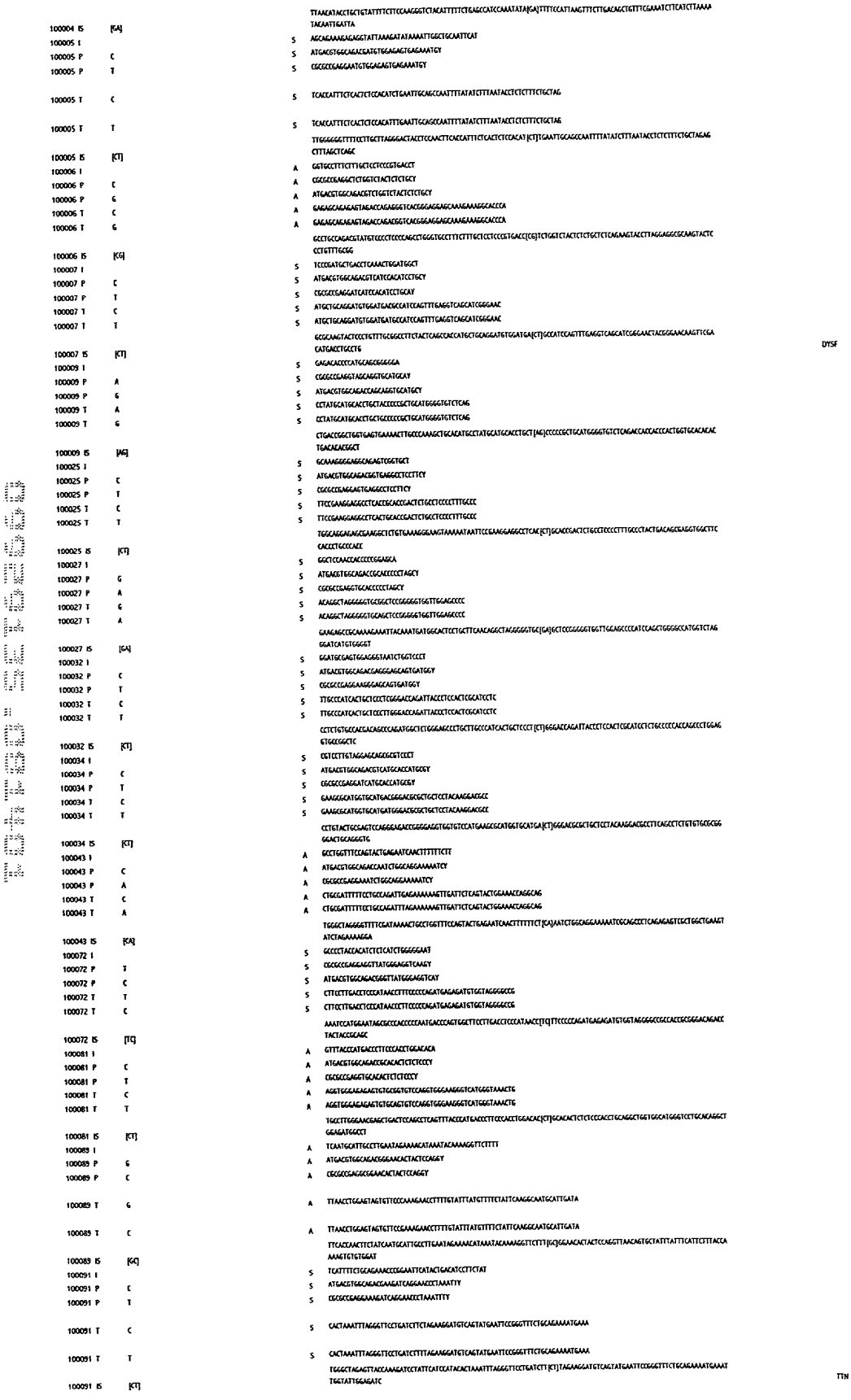


FIGURE 129C

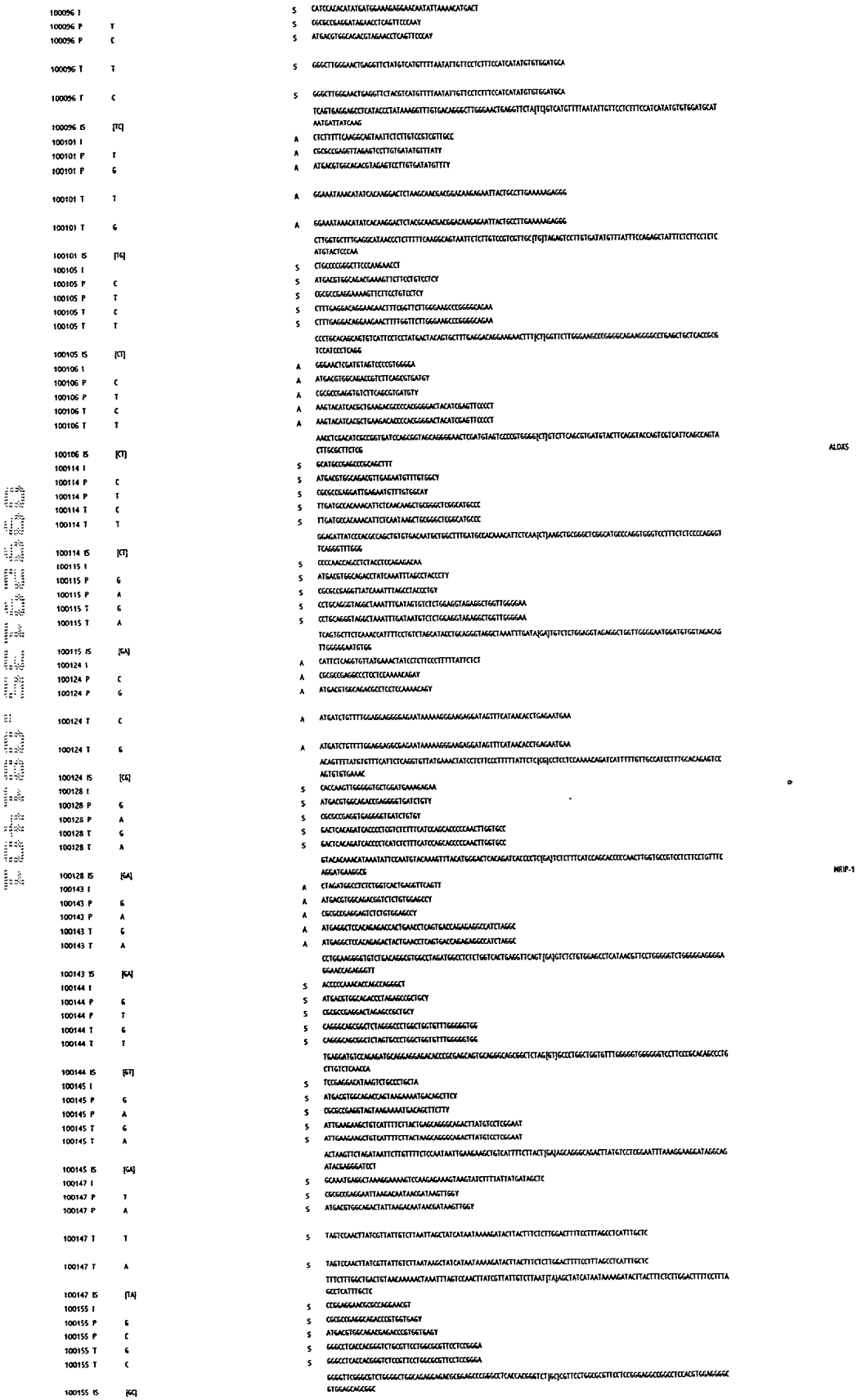


FIGURE 129C

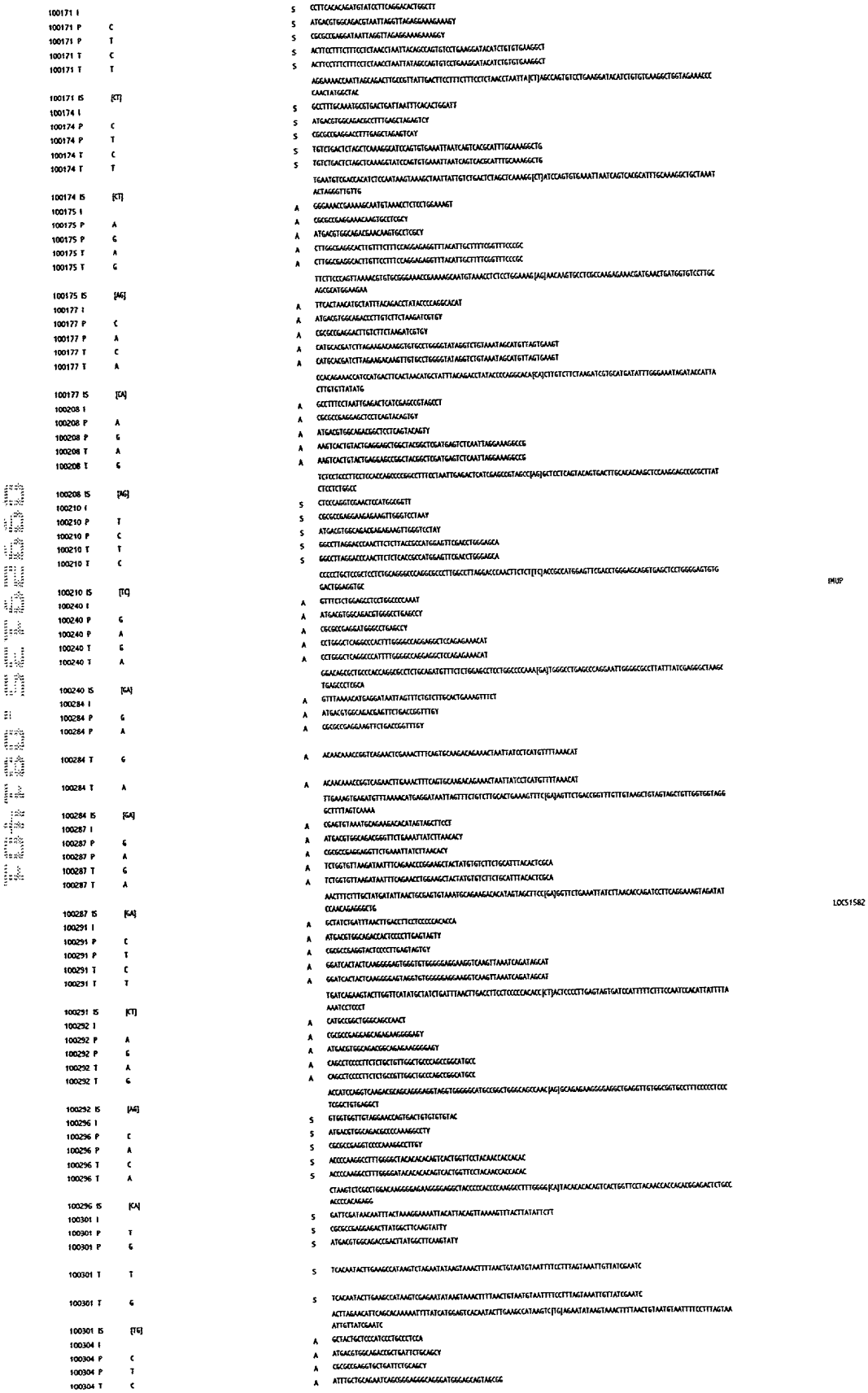

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A GGATCACTACTCAAGGGGAGTGGGTGTGGGGGAGGAAGGTCAAGTTAAATCAGATAGCAT
A GGATCACTACTCAAGGGGAGTAGGTGTGGGGGAGGAAGGTCAAGTTAAATCAGATAGCAT
TGATCAGAAGTACTTGGTTCATATGCTATCTGATTTAACTTGACCTTCCTCCCCCACACC[CT]ACTCCCCTTGAGTAGTGATCCATTTTTCTTTCCAATCCACATTATTTTA
AAATCCTCCCT
A CATGCCGGCTGGGCAGCCAACT
A CGCGCCGAGGAGCAGAGAAGGGGAGY
A ATGACGTGGCAGACGGCAGAGAAGGGGAGY
A CAGCCTCCCCTCTCTGCTGTTGGCTGCCCAGCCGGCATGCC
A CAGCCTCCCCTCTCTGCCGTTGGCTGCCCAGCCGGCATGCC
ACCATCCAGGTCAAGACGCAGCAGGCAGGCAGGTAGGTGGGGGCATGCCGGCTGGGCAGCCAAC[AG]GCAGAGAAGGGCAGGCTCAGGTTGTGGCGGTGCCTTTCCCCCTCCC
TCGGCTGTGAGGCT
S GTGGTGGTTGTAGGAACCAGTGACTGTGTGTGTAC
S ATGACGTGGCAGACGCCCCAAGGCCTY
S CGCGCCGAGGTCCCCAAGGCCTTGY
S ACCCCAAGGCCTTTGGGGCTACACACACAGTCACTGGTTCCTACAACCACCACAC
S ACCCCAAGGCCTTTGGGGATACACACACAGTCACTGGTTCCTACAACCACCACAC
CTAAGTCTCGCCTGGACAAGGGGAGAAGGGGAGGCTACCCCCACCCCAAGGCCTTTGGGG[CA]TACACACACAGTCACTGGTTCCTACAACCACCACACGCAGACTCTGCC
ACCCCACAGAGG
S GATTCGATAACAATTTACTAAAGGAAAATTACATTACAGTTAAAAGTTTACTTATATTCTT
S CGCGCCGAGGAGACTTATGGCTTCAAGTATTY
S ATGACGTGGCAGACCGACTTATGGCTTCAAGTATY
S TCACAATACTTGAAGCCATAAGTCTAGAATATAAGTAAACTTTTAACTGTAATGTAATTTTCCTTTAGTAAATTGTTATCGAATC
S TCACAATACTTGAAGCCATAAGTCGAGAATATAAGTAAACTTTTAACTGTAATGTAATTTTCCTTTAGTAAATTGTTATCGAATC
ACTTAGAACATTCAGCACAAAAATTTTATCATGGAGTCACAATACTTGAAGCCATAAGTC[TG]AGAATATAAGTAAACTTTTAACTGTAATGTAATTTTCCTTTAGTAA
ATTGTTATCGAATC
A GCTACTGCTCCCATCCCTGCCCTCCA
A ATGACGTGGCAGACCGCTGATTCTGCAGCY
A CGCGCCGAGGTGCTGATTCTGCAGCY
A ATTTGCTGCAGAATCAGCGGCAGGGCAGGCATGGCAGCAGTAGCGG
IMUP
LOC51582

FIGURE 129C

100304 T	T	A	ATTTGCTGCAGAATCAGCAGGAGGCAGGGATGGGAGCAGTAGCGG	
100304 IS	[CT]		CTGGAAGACATGCTTGCCTGAGCAGTGGGCTCACCGCTACTGCTCCCATCCCTGCCCTCC[CT]GCTGATTCTGCAGCAAATTCTCCAATTCTGACCCAACTGGCAGCCTATG ACATACATCTA	
100337 I		A	GTCAGCCTTAAGGAAACCGAGGCCAGGAACT	
100337 P	A	A	CGCGCCGAGGACTTATCACACAGCATCCY	
100337 P	G	A	ATGACGTGGCAGCAGCCTTATCACACAGCATCCY	
100337 T	A	A	TGAAGCATGCTGTGTGATAAGTGTTCCTGGCCTCGGTTTCCTTAAGGCTGACCT	
100337 T	G	A	TGAAGGATGCTGTGTGATAAGCGTTCCTGGCCTCGGTTTCCTTAAGGCTGACCT	
100337 IS	[AG]		TGCAGTGTGTGTGAAGCAATCTGACTCAAGGTCAGCCTTAAGGAAACCGAGCCCAGGAAC[AG]CTTATCACACAGCATCCTTCAATGGTCACCGATTCCCTTCTGCTTGC TCCAGTGTGTGAA	
100361 I		S	TCTCCCTCTCCCCACAAGACCAGTCATTCTTCAAAAGATT	
100361 P	T	S	CGCGCCGAGGAGTCCAAGTCTCTTTAGAGCY	
100361 P	C	S	ATGACGTGGCAGCAGCTCCAAGTCTCTTTAGAGCY	
100361 T	T	S	AATTCCTCTAAAGAGACTTGGACTATCTTTTGAAGAATGACTGGTCTTGTGGGAAGAGGGAGAGT	
100361 T	C	S	AATTCCTCTAAAGAGACTTGGACATCTTTTGAAGAATGACTGGTCTTGTGGGAAGAGGGAGAGT	
100361 IS	[TC]		ATAGGAGTTGTCGGAAAAGGAGAAAACAGGAGAAGACAATTCCTCTAAAGAGACTTGGAC[TC]ATCTTTTGAAGAATGACTGGTCTTGTGGGAAGAGGCAGAGTAATC AAGGTGTGTTTGATA	
100363 I		S	GCCATCCCAGGGCTCCCAGGGT	
100363 P	C	S	ATGACGTGGCAGACGACTGCCCCACCTGY	
100363 P	T	S	CGCGCCGAGGAACTGCCCCACCTGY	
100363 T	C	S	TCCTCAGGTGGGGCAGTCCCCTGGCAGCCCTGGGATGGCTC	
100363 T	T	S	TCCTCAGGTGGGGCAGTTCCCTGGCAGCCCTGGGATGGCTC	
100363 IS	[CT]		AAAGCAGCCTCTCGATGCCTAAAGGGACTAGATTCTTCCCTGTCCTCAGGTGGGGCAGT[CT]CCCTGGGAGCCCTGGGATGGCTCATTAAAGAATGGACCCCAAACAA CCCTCTTAGACAC	
100400 I		A	AGTAATGGTTGTTCGGTGCTGCTGGCCTT	
100400 P	G	A	ATGACGTGGCAGCAGCTTGTCTAATTTACGTCTTTAGY	
100400 P	A	A	CGCGCCGAGGACTTGTCTAATTTACGTCTTTAGTY	
100400 T	G	A	ATCCACTAAAGACGTAAATTAGACAAGCAGGCCAGCAGCACCGAACAACCATTACTAT	
100400 T	A	A	ATCCACTAAAGACGTAAATTAGACAAGTAGGCCAGCAGCACCGAACAACCATTACTAT	
100400 IS	[GA]		CAGGAAAAGGAGTTTACTTCAGTACTTGACATAGTAATGGGTTGTTCGGTGCTGCTGGCCT[GA]CTTGTCTAATTTACGTCTTTAGTGGATTCCATAACTTTATTTATTTC CACTCTAGGATAT	
100528 I		S	CCTCTTTGGTCTCATCTGGCCCTCTCAGGAA	
100528 P	G	S	ATGACGTGGCAGACCCAGCTGCTGCTTTCY	
100528 P	A	S	CGCGCCGAGGTCAGCTGCTGCTTTCTY	
100528 T	G	S	GAGGAGAAAGCAGCAGCTGGTCCTGAGAGGGCCAGATGAGACCAAAGAGGAG	
100528 T	A	S	GAGGAGAAAGCAGCAGCTGATCCTGAGAGGGCCAGATGAGACCAAAGAGGAG	
100528 IS	[GA]		TTCTGCTGGCTGAGGGCAACCTTCTGGCTGCTAGCTACCAAGAGGAGAAAGCAGCAGCTG[GA]TCCTGAGAGGGCCAGATGAGACCAAAGAGGAGCAAGAGGACCCTCC TCTGCCCACCACCC	
100549 I		A	CCCAGATGCCGTTACAGCACCCACCT	
100549 P	G	A	ATGACGTGGCAGACGCGGGGTATGGATGCY	
100549 P	A	A	CGCGCCGAGGACGGGTATGGATGCCY	
100549 T	G	A	CTCTGGCATCCATACCGCCGTGGGTGCTGTAACGGCATCTGGGCT	
100549 T	A	A	CTCTGGCATCCATACCGCTGGTGGGTGCTGTAACGGCATCTGGGCT	
100549 IS	[GA]		CACAGCTACGATGTTCTGCAAAGGAGATGACAAAGCCCACATGCCGTTACAGCACCCACC[GA]CGGGTATGGATGCCAGAGGTGGTGGGGGATGCCGAGGCAGGGGCAG ACCAGGGACATTGG	
100591 I		S	GCTGCCCTCAGCCTCCCCACCT	
100591 P	C	S	ATGACGTGGCAGACGGTATCCTTACTGCAGGAGY	
100591 P	T	S	CGCGCCGAGGAGTATCCTTACTGCAGGAGY	
100591 T	C	S	CCACCTCCTCCAGTAAGGATACCGGTGGGGAGGCTGAGGGCAGCAG	
100591 T	T	S	CCACCTCCTCCAGTAAGGATACTGGTGGGGAGGCTGAGGGCAGCAG	
100591 IS	[CT]		GATCCTCATCAAGAACAAGAAGAAACAGTTTTCTGGCCCCACCTCCTCCAGTAAGGATAC[CT]GGTGGGGAGGCTGAGGGCAGCAGCCCACCCAGTGCCCCTGCAGGTGA GGGCACAGGTGAG	
100608 I		A	CCCCAGACCCCCCTTCCCCTT	
100608 P	A	A	CGCGCCGAGGATCTCTCATGATGAACACATATY	
100608 P	G	A	ATGACGTGGCAGACGTCTCTCATGATGAACACATATY	
100608 T	A	A	AGGCATATGTGTTCATCATGAGAGATAGGGGAAGGGGGGGTCTGGGGGA	
100608 T	G	A	AGGCATATGTGTTCATCATGAGAGACAGGGGAAGGGGGGGTCTGGGGGA	
100608 IS	[AG]		ATGTCTACTTTGTGAGTAGACGCCCTCACCCTTCATCTCCCCCAGACCCCCCTTCCCCT[AG]TCTCTCATGATGAACACATATGCCTCTGAGCTGCTGTGATTTCTGGCTT CAAAGTAAACG	
100611 I		S	CGTGCCTGGCCCGGACATCTGGA	
100611 P	A	S	CGCGCCGAGGTCCCTCAGAGTGGCAY	
100611 P	G	S	ATGACGTGGCAGACCCCTCAGAGTGGCY	
100611 T	A	S	CAGCTGCCACTCTGAGGGACCAGATGTCCGGGCCAGGCACGAG	
100611 T	G	S	CAGCTGCCACTCTGAGGGGCCAGATGTCCGGGCCAGGCACGAG	
100611 IS	[AG]		TGAATCTTTCAGCCCCAGGAGGGCTTCAGCTGCCTCTTGCTGCAGCTGCCACTCTGAGGG[AG]CCAGATGTCCGGCCAGGCACGAGGCTCCAGAGGCCTGCAAGGGAAA GGGAGACAAGCAG	
100612 I		A	CAGAAAATACCTTGAAGTGCAAATGTTGAGGAGAAGGT	
100612 P	A	A	CGCGCCAGGAAGAATAAAGCCGTGCATY	
100612 P	C	A	ATGACGTGGCAGACAGAATAAAGCCGTGCAY	
100612 T	A	A	TGGGATGCAACGGCTTTATTCTTCCTTCTCCTCAACATTTGCACTTCAAGGTATTTTCTGTT	
100612 T	C	A	TGGGATGCAACGGCTTTATTCTGCCTTCTCCTCAACATTTGCACTTCAAGGTATTTTCTGTT	
100612 IS	[AC]		GCACAAAATCTGAAGCAATTAAACAGAAAATACCTTGAAGTGCAAATGTTGAGGAGAAGG[AC]AGAATAAAGCCGTGCATCCCATGGTAATAGAAAGCTCAGCCGTCT TCCCAGGAAATTGA	
100633 I		A	GGGATGCTGGGCATGAGTCCACTTTAGGTGA	
100633 P	C	A	ATGACGTGGCAGACCTTCTTGGTTCTAGTTTCTGTY	
100633 P	T	A	CGCGCCGAGGTTTCTTGGTTCTAGTTTCTGTY	
100633 T	C	A	AAACACAGAAACTAGAACCAAGAAGCACCTAAAGTGGACTCATGCCCAGCATCCCTG	
100633 T	T	A	AAACACAGAAACTAGAACCAAGAAACACCTAAAGTGGACTCATGCCCAGCATCCCTG	
100633 IS	[CT]		GAACTATAGCTCAGAGAAAGTCAGTCTGCAGGGATGCTGGGCATCAGTCCACTTTAGGTG[CT]TCTTGGTTCTAGTTTCTGTGTTTTATCCTTTGGATCAGCAGCATC TTCCTCATTATGT	
100728 I		S	GGGAGGCAGGGGTGTGGTCTGTGGT	
100728 P	C	S	ATGACGTGGCAGACGCAGAAGGTGAACCCTY	
100728 P	T	S	CGCGCCGAGGACAGAAGGTGAACCCTY	
100728 T	C	S	CCTCAGGGTTCACCTTCTGCCCACAGACCACACCCCTGCCTCCCCG	
100728 T	T	S	CCTCAGGGTTCACCTTCTGTCCACAGACCACACCCCTGCCTCCCCG	
100728 IS	[CT]		CGTGCCTGCACGAGGCTGGCCACCCTCTCCAGACACTGTCCCCTCAGGGTTCACCTTCTG[CT]CCACAGACCACACCCCTGCCTCCCCGTGGACTTTGTCCCCGTGGCTGCCG TGCCCAGGTG	
100733 I		S	CCTGGTAGGTGTCCGAGGGCACTACT	
100733 P	C	S	ATGACGTGGCAGACGCGGGACAAGAAGTCGY	
100733 P	T	S	CGCGCCGAGACGGCAGAAGAAGTCGY	
100733 T	C	S	GCTACGACTCTCTCTCCCCGGTGGTGCCCTCGGACACGTACCAGGCC	
100733 T	T	S	GCTACGACTCTCTCTCCCGTGTGGTGCCCTCGGACACGTACCAGGCC	
100733 IS	[CT]		CAGCTACGCCTCCACAGGCGCCAGACCTGAGTGACAACAGCCGCTACGACTCTCTCTCCCG[CT]GTGGTGCCCTCGGACACGTACCAGGCCCAGGCCATGGTGGACATCGTCC GTGCCCTCAAG	GRM4
100742 I		S	CGGGCAGAGCTGGTTTTGACAGTGATGCAT	
100742 P	C	S	ATGACGTGGCAGACGTTGCTGGCAAATCCGY	
100742 P	T	S	CGCGCCGAGGATTGCTGGCAAATCCGY	
100742 T	C	S	CAAACGGATTTGCCAGCAACTGCATCACTGTCAAAACCAGCTCTGCCCGTG	
100742 T	T	S	CAAACGGATTTGCCAGCAATTGCATCACTGTCAAAACCAGCTCTGCCCGTG	

FIGURE 129C

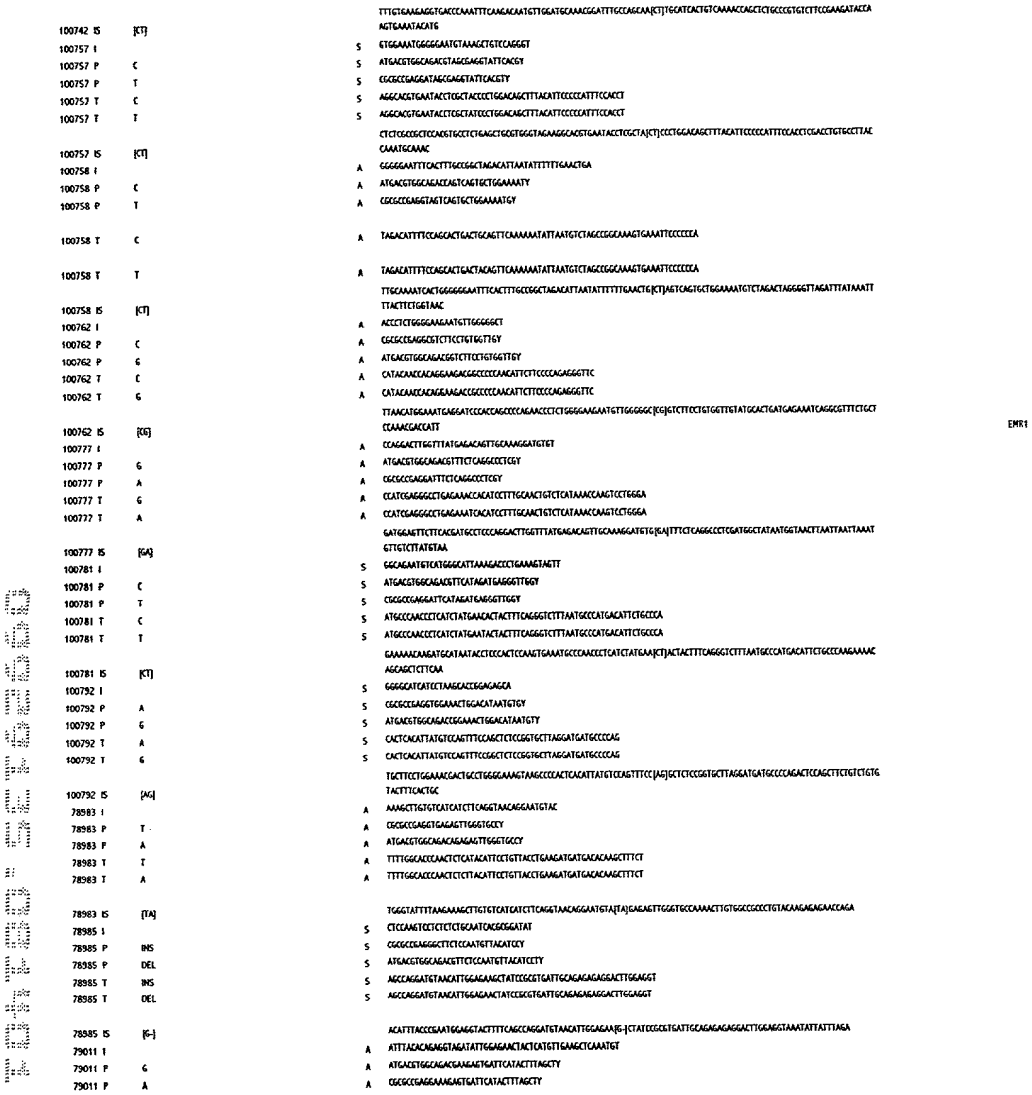


FIGURE 129C

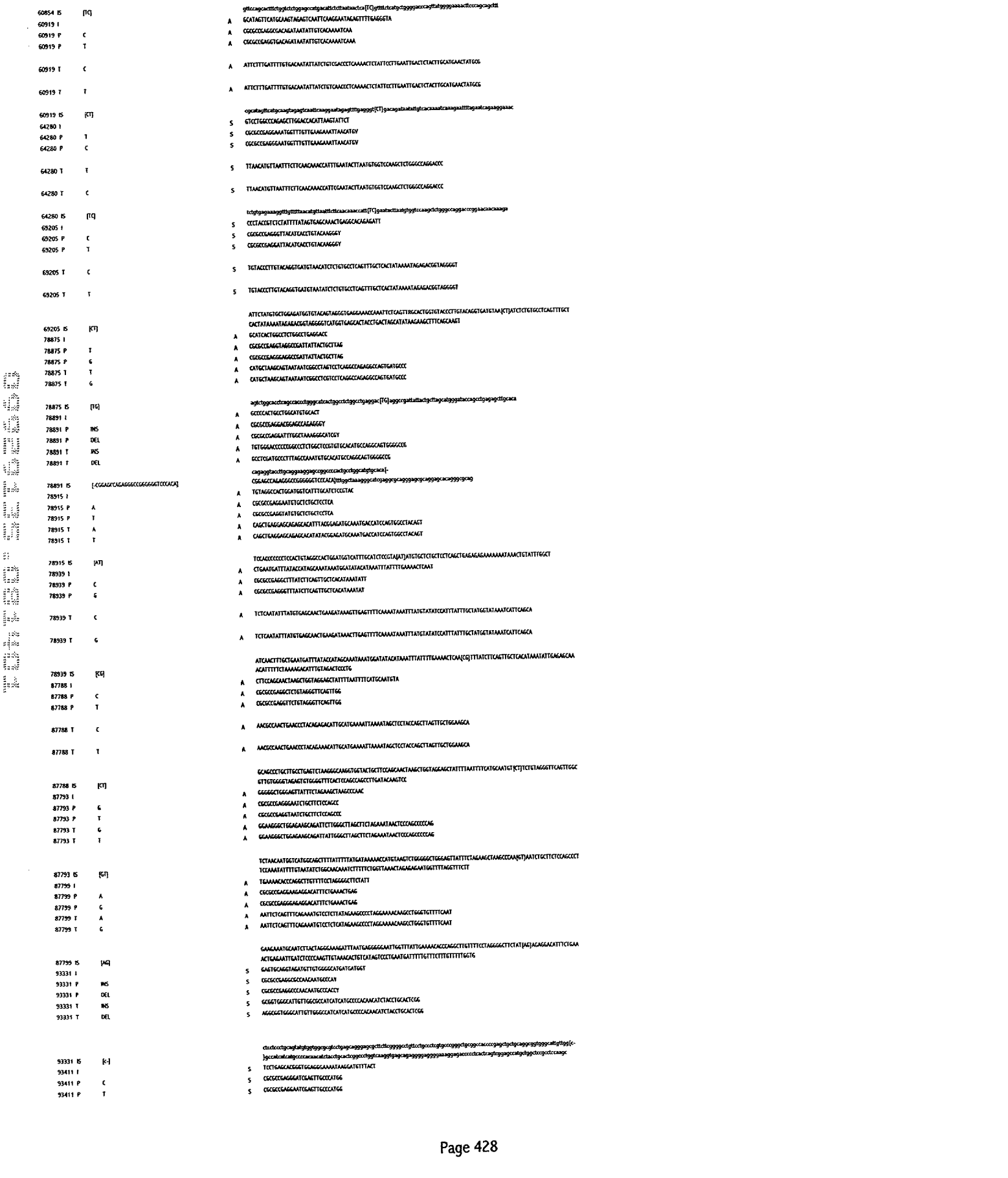
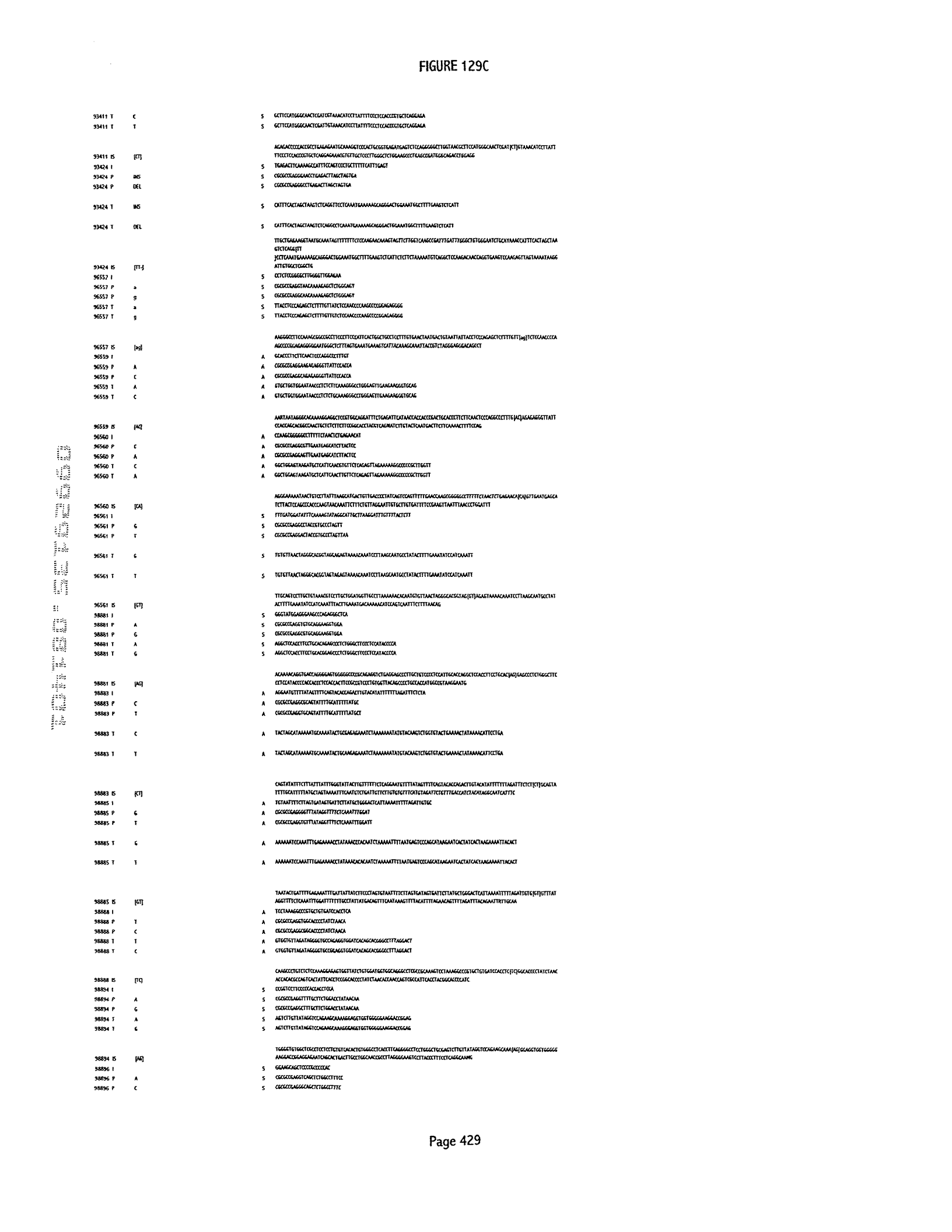


FIGURE 129C


93411 T C S GCTTCCATGGGCAACTCGATCGTAAACATCCTTATTTTCCCTCCACCCGTGCTCAGGAGA
93411 T T S GCTTCCATGGGCAACTCGATTGTAAACATCCTTATTTTCCCTCCACCCGTGCTCAGGAGA
93411 IS [CT] ACACACCCCCACCGCTCGAGAGAATGCAAAGGTCCCACTGCGGTGAGATGAGTCTCCAGGGGGCTTGGTAACGCTTCCATGGGCAACTCGATJCTJGTAAACATCCTTATT TTCCCTCCACCCGTGCTCAGGAGAAACGTGTTGCTCCCTTGGGCTCTGGAAGCCCTCAGCCGATGGCGAGACCTGCAGC
93424 I S TGAGACTTCAAAAGCCATTTCCAGTCCCTGCTTTTTCATTTGAGT
93424 P INS S CGCGCCGAGGGAACCTGAGACTTAGCTAGTGA
93424 P DEL S CGCGCCGAGGGCCTGAGACTTAGCTAGTGA
93424 T INS S CATTTCACTAGCTAAGTCTCAGGTTCCTCAAATGAAAAAGCAGGGACTGGAAATGGCTTTTGAAGTCTCATT
93424 T DEL S CATTTCACTAGCTAAGTCTCAGGCCTCAAATGAAAAAGCAGGGACTGGAAATGGCTTTTGAAGTCTCATT
93424 IS [TT-] TTGCTGAGAAGGTAATGCAAATAGTTTTTTTCTCCCAAGAACAAAGTAGTCTCTGGTCAAGCCGATTTGATTTGGGCTGTGGGAATCTGCAYAAACCATTTCACTAGCTAA GTCTCAGGTT JCCTCAAATGAAAAAGCAGGGACTGGAAATGGCTTTTGAAGTCTCATTCTCTTCTAAAAATGTCAGGCTCCAAGACAACCAGGTGAAGTCCAAGAGTTAGTAAAATAAGG ATTGTGGCTCGGCTG
96557 I S CCTCTCCGGGGCTTGGGGTTGGAGAA
96557 P a S CGCGCCGAGGTAACAAAAGAGCTCTGGGAGY
96557 P g S CGCGCCGAGGCAACAAAAGAGCTCTGGGAGY
96557 T a S TTACCTCCCAGAGCTCTTTTGTTATCTCCAACCCCAAGCCCCGGAGAGGGG
96557 T g S TTACCTCCCAGAGCTCTTTTGTTGTCTCCAACCCCAAGCCCCGGAGAGGGG
96557 IS [ag] AAGGGCCTTCCAAAGCGGCCGCCTTCCCTTCCCATTCACTGGCTGCCTCCTTTGTGAACTAATGACTGTAATTATTACCTCCAGAGCTCTTTTGTT[ag]TCTCCAACCCCA AGCCCCGGAGAGGGGGAATGGGCTCTTTAGTGAAATGAAAGTCATTACAAAGCAAATTACCGTCTAGGGAGGGAGAAGCCT
96559 I A GCACCCTTCTTCAACTCCCAGGCCCTTTGT
96559 P A A CGCGCCGAGGAAGAGAGGGTTATTCCACCA
96559 P C A CGCGCCGAGGCAGAAGAGGGTTATTCCACCA
96559 T A A GTGCTGGTGGAATAACCCTCTCTTCAAAGGGCCTGGGAGTTGAAGAAGGGTGCAG
96559 T C A GTGCTGGTGGAATAACCCTCTCTGCAAAGGGCCTGGGAGTTGAAGAAGGGTGCAG
96559 IS [AC] AARTAATAGGGCACAAAAGGAGGCTCCGTGGCAGGATTTCTGAGATTCATAACCACCACCCGACTGCACCCTCTCTTCAACTCCCAGGCCCTTTG[AC]AGAGAGAGGTTATT CCACCAGCACGGCCCAACTGCTCTCTTCTTCCGGCCACCTACCTCAGMATCTGTACTCAATGACTTCTTCAAAACTTTTCCAG
96560 I A CCAAGCGGGGGGCTTTTTCTAACTCTGAGAAACAT
96560 P C A CGCGCCGAGGCGTTGAATGAGCATCTTACTCC
96560 P A A CGCGCCGAGGAGTTGAATGAGCATCTTACTCC
96560 T C A GGCTGGAGTAAGATGCTCATTCAACGTGTTCTCAGAGTTAGAAAAAGGCCCCCGCTTGGTT
96560 T A A GGCTGGAGTAAGATGCTCATTCAACTTGTTCTCAGAGTTAGAAAAAGGCCCCCGCTTGGTT
96560 IS [CA] AGGGAAAAATAACTGTCCTTATTTAAGCATGACTGTTGACCCCTATCAGTCCAGTTTTTGAACCAAGCCGGGGCCTTTTTCTAACTCTGAGAACA[CA]GTTGAATGAGCA TCTTACTCCAGCCCACCCAAGTAACAAATTCTTTCTGTTAGGAATTGTGCTTGTGATTTTCGGAAGTTAATTTAACCCTGCATTT
96561 I S TTTGATGGATATTTCAAAAGTATAGGCATTGCTTAAGGATTTGTTTTACTCTT
96561 P G S CGCGCCGAGGCCTACGTGCCCTAGTT
96561 P T S CGCGCCGAGGACTACCGTGCCCTAGTTAA
96561 T G S TGTGTTAACTAGGGCACGGTAGCAGAGTAAAACAAATCCTTAAGCAATGCCTATACTTTGAAATATCCATCAAATT
96561 T T S TGTGTTAACTAGGGCACGGTAGTAGAGTAAAACAAATCCTTAAGCAATGCCTATACTTTGAAATATCCATCAAATT
96561 IS [GT] TTGCAGTCCTTGCTGTAAACGTCCTTGCTGGATGGTTGCCTTAAAAACACAATGTGTTAACTAGGGCACGGTAG[GT]AGAGTAAAACAAATCCTTAAGCAATGCCTAT ACTTTTGAAATATCCATCAAATTTACTTGAAATGACAAAAACATCCAGTCAATTTCTTTTAACAG
98881 I S GGGTATGGAGGGAAGCCCAGAGGCTCA
98881 P A S CGCGCCGAGGTGTGCAGGAAAGGTGGA
98881 P G S CGCGCCGAGGCGTGCAGGAAAGGTGGA
98881 T A S AGGCTCCACCTTCCTGCACAGAAGCCCTCTGGGCTTCCCTCCATACCCCA
98881 T G S AGGCTCCACCTTCCTGCACGAAGCCCTCTGGGCTTCCCTCCATACCCCA
98881 IS [AG] ACAAAACAGGTGACCAGGGGAGTGGGGGCCCCCACAGAGGTCTGAGGAGCCCTTGCTGTCCCCTCCATTGCACCAGGCTCCACCTTCCTGCAC[AG]GAGCCCTCTGGGCTTC CTCCATACCCCACACCCTCCACCACTTCCCGCCGTCCCTGTGGTTACAGCCCCTGCCACCATGGCCGTAAGGAATG
98883 I A AGGAATGTTTTATAGTTTTCAGTACACCAGACTTGTACATATTTTTTAGATTTCTCTA
98883 P C A CGCGCCGAGGCGCAGTATTTTGCATTTTTATGC
98883 P T A CGCGCCGAGGTGCAGTATTTTGCATTTTTATGCT
98883 T C A TACTAGCATAAAAATGCAAAATACTGCGAGAGAAATCTAAAAAAATATGTACAAGTCTGGTGTACTGAAAACTATAAAACATTCCTGA
98883 T T A TACTAGCATAAAAATGCAAAATACTGCAAGAGAAATCTAAAAAAATATGTACAAGTCTGGTGTACTGAAAACTATAAAACATTCCTGA
98883 IS [CT] CAGTATATTTCTTTATTTATTTGGGTATTACTTGTTTTTTCTCAGGAATGTTTTATAGTTTTGAGTACACCAGACTTGTACATATTTTTTTAGATTTCTCTF[CT]GCAGTA TTTTGCATTTTTATGCTAGTAAAATTTCAATGTCTGATTGTTCTTGTGTGTTTCATGTAGATTCTGTTTGACCATCTACATAGGCAATCATTTC
98885 I A TGTAATTTTCTTAGTGATAGTGATTCTTATGCTGGGACTCATTAAAATTTTTAGATTGTGC
98885 P G A CGCGCCGAGGGGTTTATAGGTTTTCTCAAATTTGGAT
98885 P T A CGCGCCGAGGTGTTATAGGTTTTCTCAAATTTGGATT
98885 T G A AAAAATCCAAATTTGAGAAAACCTATAAACCACACATCTAAAAATTTTAATGAGTCCCAGCATAAGAATCACTATCACTAAGAAAATTACACT
98885 T T A AAAAATCCAAATTTGAGAAAACCTATAAACACACAATCTAAAAATTTTAATGAGTCCCAGCATAAGAATCACTATCACTAAGAAAATTACACT
98885 IS [GT] TAATACTGATTTTGAGAAATTTGATTATTATCTTCCCTAGTGTAATTTCTTAGTGATAGTGATTCTTATGCTGGGACTCATTAAAATTTTTAGATTGTG[GT]GTTTAT AGGTTTTCTCAAATTTGGATTTTTTTGCCTATTATGACAGTTTCAATAAAGTTTTACATTTTAGAACAGTTTTAGATTTACAGAAATTRTTGCAA
98888 I A TECTAAAGGCCCGTGCTGTGATCCACCTCA
98888 P T A CGCGCCGAGGTGGCACCCCTATCTAACA
98888 P C A CGCGCCGAGGCGGCACCCCTATCTAACA
98888 T T A GTGGTGTTAGATAGGGGTGCCAGAGGTGGATCACAGCACGGGGCTTTAGGACT
98888 T C A GTGGTGTTAGATAGGGGTGCCGGAGGTGGATCACAGCACGGGGCTTTAGGACT
98888 IS [TC] CAAGCCCTGTCTCTCCAAAGGAAGAGTGGTTATCTGTGGATGGTGGCAGGCCTCTGCCGCAAAGTCCTAAAGCCCGTGCTGTGATCCACCTC[TC]GGCACCCCTATCTAAC ACCACAGCCAGTCACTATTCAACTCCGGCACCCCTATCTAACACCAACCAGTCGCCATTCACCTACGGCACCCCATC
98894 I S CCGGTCCTCCCCCCACCACCTCCA
98894 P A S CGCGCCGAGGTTTTGCTTCTGGACCTATAACAA
98894 P G S CGCGCCGAGGCTTTGCTTCTGGACCTATAACAA
98894 T A S AGTCTTGTTATAGGTCCAGAAGCAAAGGGAGGTGGTGGGGGAAGGACCGGAG
98894 T G S AGTCTTGTTATAGGTCCAGAAGCAAAGGGAGGTGGTGGGGGAAGGACCGGAG
98894 IS [AG] TGGGGTGTGGCTCGCCTCCTCCTGTGTCACACTGTGGGCCTCACCTTCAGGGGCCTCCTGGGCTGCGAGTCTTGTTATAGTCCAGAAGCAAA[AG]GCAGGTGGTGGGGG AAGGACCGGAGGAGAATCAGCACTGACTTGCCTGGCAACGCGCCTAGGGGAAGTCCTTACCCTTCCTCAGGCAAMG
98896 I S GGAAGCAGCTCCCCGCCCCCAC
98896 P A S CGCGCCGAGGTCAGCTCTGGCCTTTCC
98896 P C S CGCGCCGAGGGCAGCTCTGGCCTTTC

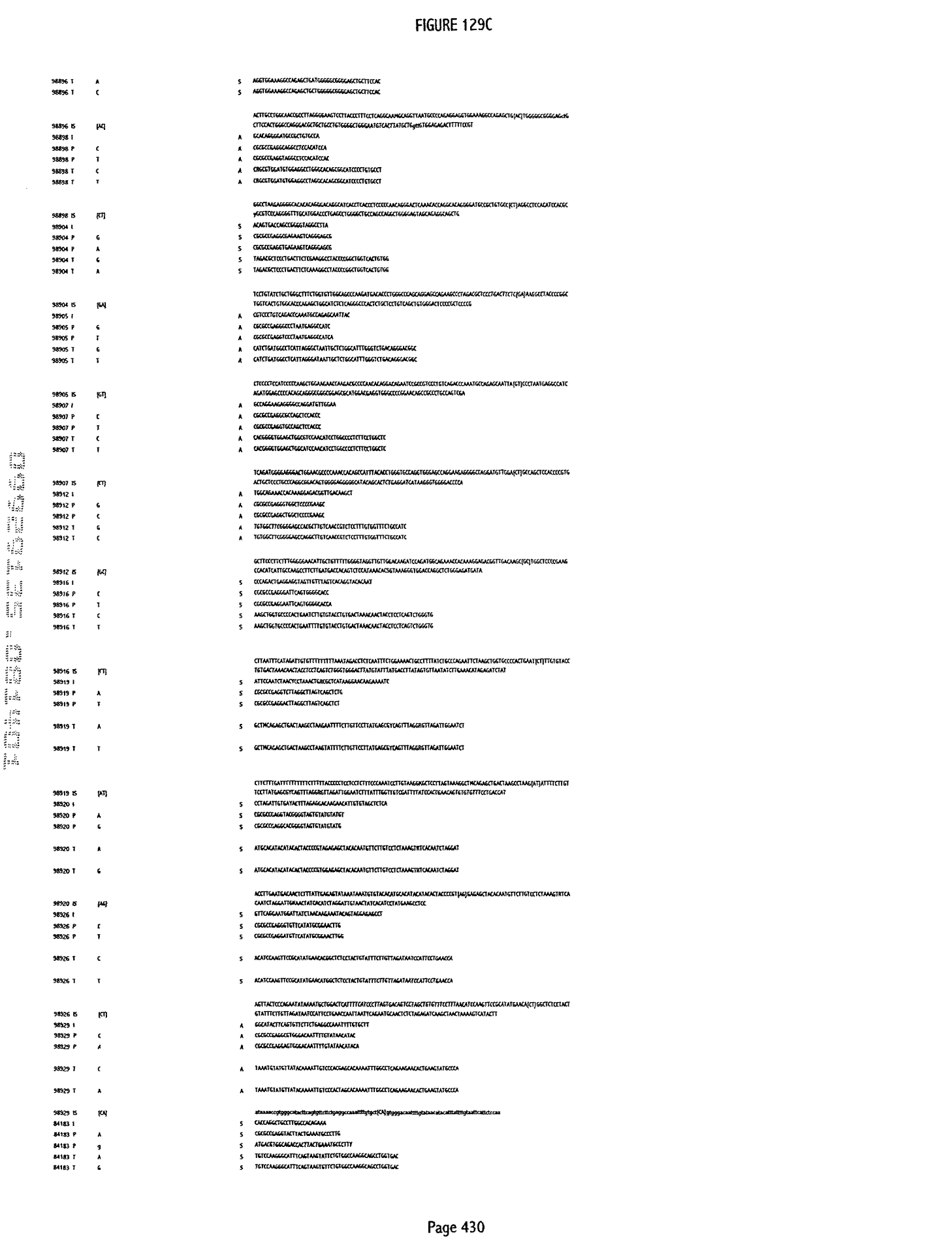

98896 T A S AGGTGGAAAGGCCAGAGCTGATGGGGGCGGGGAGCTGCTTCCAC
98896 T C S AGGTGGAAAGGCCAGAGCTGCTGGGGGCGGGGAGCTGCTTCCAC
ACTTGCCTGGGCAACGCGCCTTAGGGGAAGTCCTTACCCTTTCCTCAGGCAAMGCAGGTTAATGCCCCAGAGGAGGTGGAAAGGCCAGAGCTG[AC]TGGGGGCGGGAGCAG
98896 IS [AC] CTTCCACTGGGCCAGGGACGCTGCTGCCTGTGGGGCTGGGAATGTCACTTATGCTGggttGTGGACAGACTTTTTCCGT
98898 I A GCACAGGGGATGCCGCTGTGCCA
98898 P C A CGCGCCGAGGCAGGCCTCCACATCCA
98898 P T A CGCGCCGAGGTAGGCCTCCACATCCAC
98898 T C A CBGCGTGGATGTGGAGGCCTGGGCACAGCGGCATCCCCTGTGCCT
98898 T T A CBGCGTGGATGTGGAGGCCTAGGCACAGCGGCATCCCCTGTGCCT
GGCCTAAGAGGGGCACACACAGGACAGGCATCACCTCACCCTCCCCCAACAGGGAACTCAAACACCAGGCACAGGGGATGCCGCTGTGCC[CT]AGGCCTCCACATCCACGC
98898 IS [CT] yGCGTCCCAGGGGTTTGCATGGACCCTGAGCCTGGGGCTGCCAGCCAGGCTGGGGAGTAGCAGCAGGCAGCTG
98904 I S ACAGTGACCAGCCGGGGTAGGCCTTA
98904 P G S CGCGCCGAGGCGAGAAGTCAGGGAGCG
98904 P A S CGCGCCGAGGTGAGAAGTCAGGGAGCG
98904 T G S TAGACGCTCCCTGACTTCTCGAAGGCCTACCCCGGCTGGTCACTGTGG
98904 T A S TAGACGCTCCCTGACTTCTCAAAGGCCTACCCCGGCTGGTCACTGTGG
TCCTGTATCTGCTGGGCTTTCTGGTGTTGGCAGCCCAAGATGACACCCTGGGCCCAGCAGGAGCCAGAAGCCCTAGACGCTCCCTGACTTCTC[GA]AAGGCCTACCCCGGC
98904 IS [GA] TGGTCACTGTGGCACCCAGAGCTGGCATCTCTCAGGGCCCACTCTGCTCCTGTCAGCTGTGGGACTCCCCGCTCCCCG
98905 I A CGTCCCTGTCAGACCCAAATGCCAGAGCAATTAC
98905 P G A CGCGCCGAGGGCCCTAATGAGGCCATC
98905 P T A CGCGCCGAGGTCCCTAATGAGGCCATCA
98905 T G A CATCTGATGGGCTCATTAGGGCTAATTGCTCTGGCATTTGGGTCTGACAGGGACGGC
98905 T T A CATCTGATGGGCTCATTAGGGATAATTGCTCTGGCATTTGGGTCTGACAGGGACGGC
CTCCCCTCCATCCCCCAAGCTGGAAGAACCAAGAGCCCCCAACACAGGACAGAATCCGCCGTCCCTGTCAGACCCAAATGCCAGAGCAATTA[GT]CCCTAATGAGGCCATC
98905 IS [GT] ACATGGAGCCCCACAGCAGGGCGGGCGGAGCGCATGGACAGAGTGGGCCCCGGAACAGCCGCCCTGCCAGTCGA
98907 I A GCCAGGAAGAGGGGCCAGGATGTTGGAA
98907 P C A CGCGCCGAGGCGCCAGCTCCACCC
98907 P T A CGCGCCGAGGTGCCAGCTCCACCC
98907 T C A CACGGGGTGGAGCTGGCGTCCAACATCCTGGCCCCTCTTCCTGGCTC
98907 T T A CACGGGGTGGAGCTGGCATCCAACATCCTGGCCCCTCTTCCTGGCTC
TCAGATGGGGAGGGAGTGGAACGCCCCAAMCCACAGCCATTTACACCTGGGTGCCAGGTGGGGAGCCAGGAAGAGGGGCCAGGATGTTGGA[CT]GCCAGCTCCACCCCGTG
98907 IS [CT] ACTGCTCCCTCGCCCAGGCGGACACTGGGGAGGGGGCATACAGCACTCTGAGGATCATAAGGGTGGGGACCCCA
98912 I A TGGCAGAAACCACAAAGGAGACGGTTGACAAGCT
98912 P G A CGCGCCGAGGGTGGCTCCCCGAAGC
98912 P C A CGCGCCGAGGCTGGCTCCCCGAAGC
98912 T G A TGTGGCTTCGGGGAGCCAGGCTTGTCAACCGTCTCCTTTGTGGTTTCTGCCATC
98912 T C A TGTGGCTTCGGGGAGCCAGGCTTGTCAACCGTCTCCTTTGTGGTTTCTGCCATC
GCTTCCCTTCTTTGGGGGAACATTGCTGTTTTTGGGGTAGGTTGTTGGACAAGATCCAGATGGCAGAAACCACAAAGGAGACGGTTGACAAGC[GC]TGGCTCCCCGAAG
98912 IS [GC] CCACATCATTGCCAGCCTTCTTGATGACCACAGTCTCCATAAACACSGTAAAGGGTGGCACCAGGCTCTGGGAGATGATA
98916 I S CCCAGACTGAGGAGGTAGTTGTTTAGTCACAGGTACACAAT
98916 P C S CCGCGCCGAGGGATTCAGTGGGGCACC
98916 P T S CCGCGCCGAGGAATTCAGTGGGGCACCA
98916 T C S AAGCTGGTGCCCCACTGAATCTTGTGTACCTGTGACTAAACAACTACCTCCTCAGTCTGGGTG
98916 T T S AAGCTGGTGCCCCACTGAATTTTGTGTACCTGTGACTAAACAACTACCTCCTCAGTCTGGGTG
CTTAATTTCATAGATTGTGTTTTTTTTTAAATAGACCTCTCAATTTCTGGAAAACTGCCTTTTATCTGCCCAGAATTCTAAGCTGGTGCCCCACTGAAT[CT]TTGTGTACC
98916 IS [CT] TGTGACTAAACAACTACCTCCTCAGTCTGGGTGGGACTTATGTATTTATGACCTTATAGTGTTAATATCTTGAAACATAGAGATCTAT
98919 I S ATTCCAATCTAACTCCTAAACTGRCGCTCATAAGGAACAAGAAAATC
98919 P A S CGCGCCGAGGTCTAGGCTTAGTCAGCTCTG
98919 P T S CGCGCCGAGGACTTAGGCTTAGTCAGCTCT
98919 T A S GCTMCAGAGCTGACTAAGCCTAAGAATTTCTTGTTCCTTATGAGCCYCAGTTTAGGRGTTAGATTGGAATCT
98919 T T S GCTMCAGAGCTGACTAAGCCTAAGTATTTTCTTGTTCCTTATGAGCCYCAGTTTAGGRGTTAGATTGGAATCT
CTTCTTTGATTCTTTTTTTCTTTTTACCCCCTCCTCCTCTTTCCCAAATCCCTGTAAGGKGCTCCTTAGTAAAGCCTMCAGAGCTGACTAAGCCTAAG[AT]ATTTTCTTGT
98919 IS [AT] TCCTTATGAGCCYCAGTTTAGGRGTTAGATTGGAATCTTTATTTGGTTGTCGATTTTATCCACTGAACAGTGTGTGTTTCCTGACCA?
98920 I S CCTAGATTGTGAYACTTTAGAGCACAAGAACATTGTGTAGCTCTCA
98920 P A S CGCGCCGAGGTACGGGGTAGTGTATGTATGT
98920 P G S CGCGCCGAGGCACGGGGTAGTGTATGTATG
98920 T A S ATGCACATACATACACTACCCCCGTAGAGAGCTACACAATGTTCTTGTCCTCTAAAGTRTCACAATCTAGGAT
98920 T G S ATGCACATACATACACTACCCCCGTGGAGAGCTACACAATGTTCTTGTCCTCTAAAGTRTCACAATCTAGGAT
ACCTTGAATGACAACTCTTTATTGAGAGTATAAATAAATGTGTACACATGCACATACATACACTACCCCGT[AG]GAGAGCTACACAATGTTCTTGTCCTCTAAAGTRTCA
98920 IS [AG] CAATCTAGGATTGAAACTATCACATCTAGGATTGTAACTATCACATCCTATGAAGCCTCC
98926 I S GTTCAGGAATGGATTATCTAACAAGAAATACAGTAGGAAGAGCCT
98926 P C S CGCGCCGAGGGTGTTCATATGCCGAACTTG
98926 P T S CGCGCCGAGGATGTTCATATGCCGAACTTGG
98926 T C S ACATCCAAGTTCCGCATATGAACACGGCTCTCCTACTGTATTTCTTGTTAGATAATCCATTCCTGAACCA
98926 T T S ACATCCAAGTTCCGCATATGAACATGGCTCTCCTACTGTATTTCTTGTTAGATAATCCATTCCTGAACCA
AGTTACTCCCAGAATATAAAATGCTGGACTGATTTTGATCCCTTAGTGACAETCCTAGCTGTGTTTCCTTTAACATCCAAGTTCCGCATATGAACA[CT]GGCTCTCCTACT
98926 IS [CT] GTATTTCTTGTTAGATAATCCATTCCTGAACCAATTAATTCAGAATGCAACTCTCTAGAGATCAAGCTAACTAAAAGTCATACTT
98929 I A GGCATACTTCAGTGTSTCTTCTGAGGCCAAATTTTGTGCTT
98929 P C A CGCGCCGAGGCCTGGGACAATTTTGTATAACATAC
98929 P A A CGCGCCGAGGAGTGGGACAATTTTGTATAACATACA
98929 T C A TAAATGTATGTTATACAAAATTGTCCCACGAGCACAAAATTTGGCCTCAGAAGAACACTGAAGTATGCCCA
98929 T A A TAAATGTATGTTATACAAAATTGTCCCACTAGCACAAAATTTGGCCTCAGAAGAACACTGAAGTATGCCCA
98929 IS [CA] atacaaaccgtgggcatactcagtgttcttctgagggcaaaattttgtgct[CA]gtgggacaattttgtatacacatacatttattttgtaatttcattcttccaa
84183 I S CACCAGCTGCCTTGGCCACAGAAA
84183 P A S CGCGCCGAGGTACTTACTGAAATGCCCTTG
84183 P g S ATGACTGGCAGACCACTTACTGAAATGCCCTTY
84183 T A S TGTCCAAGGGCATTTCAGTAAGTATTCTGTGGCCAAGGCAGCCTGGTGAC
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FIGURE 129C

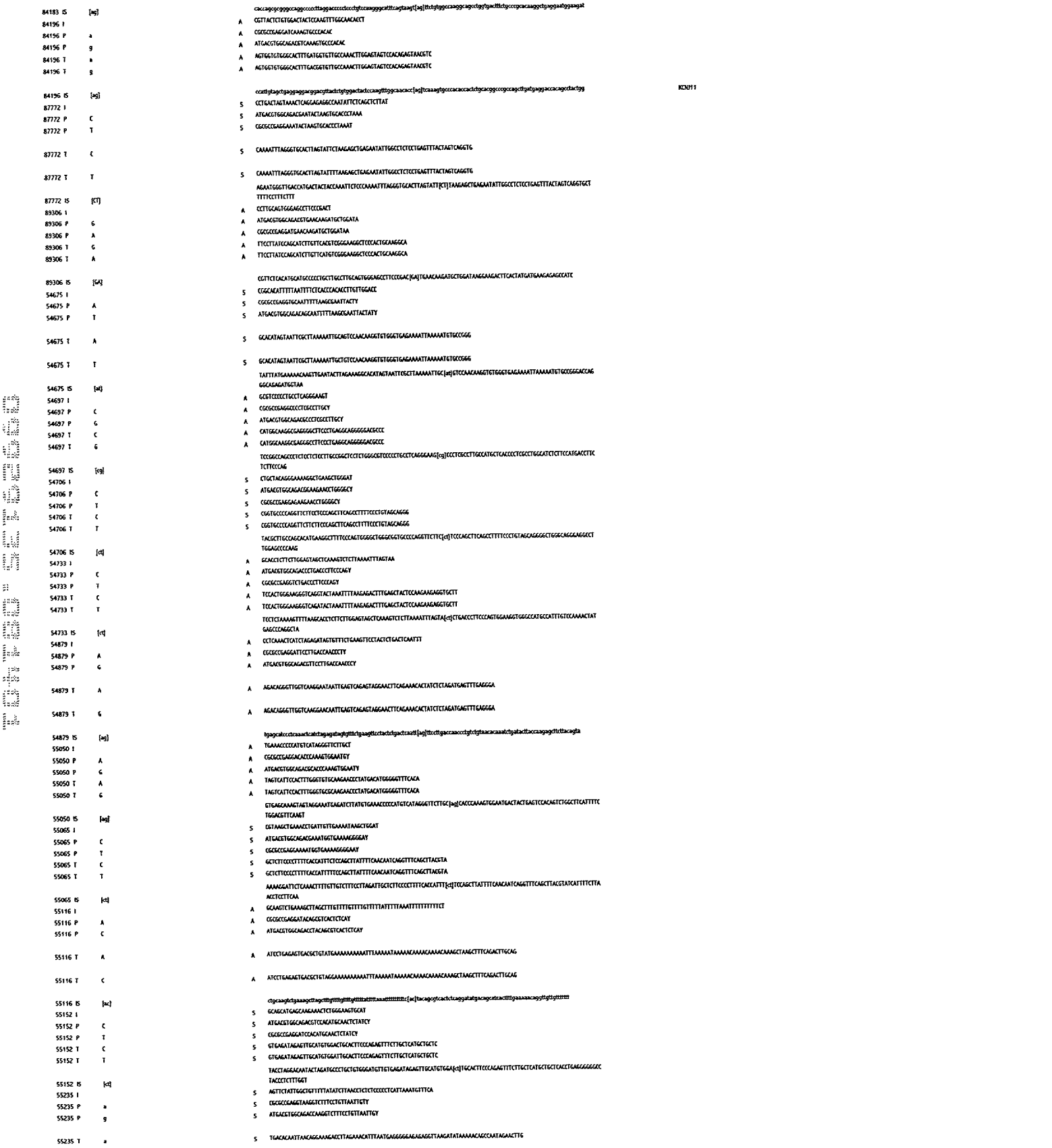
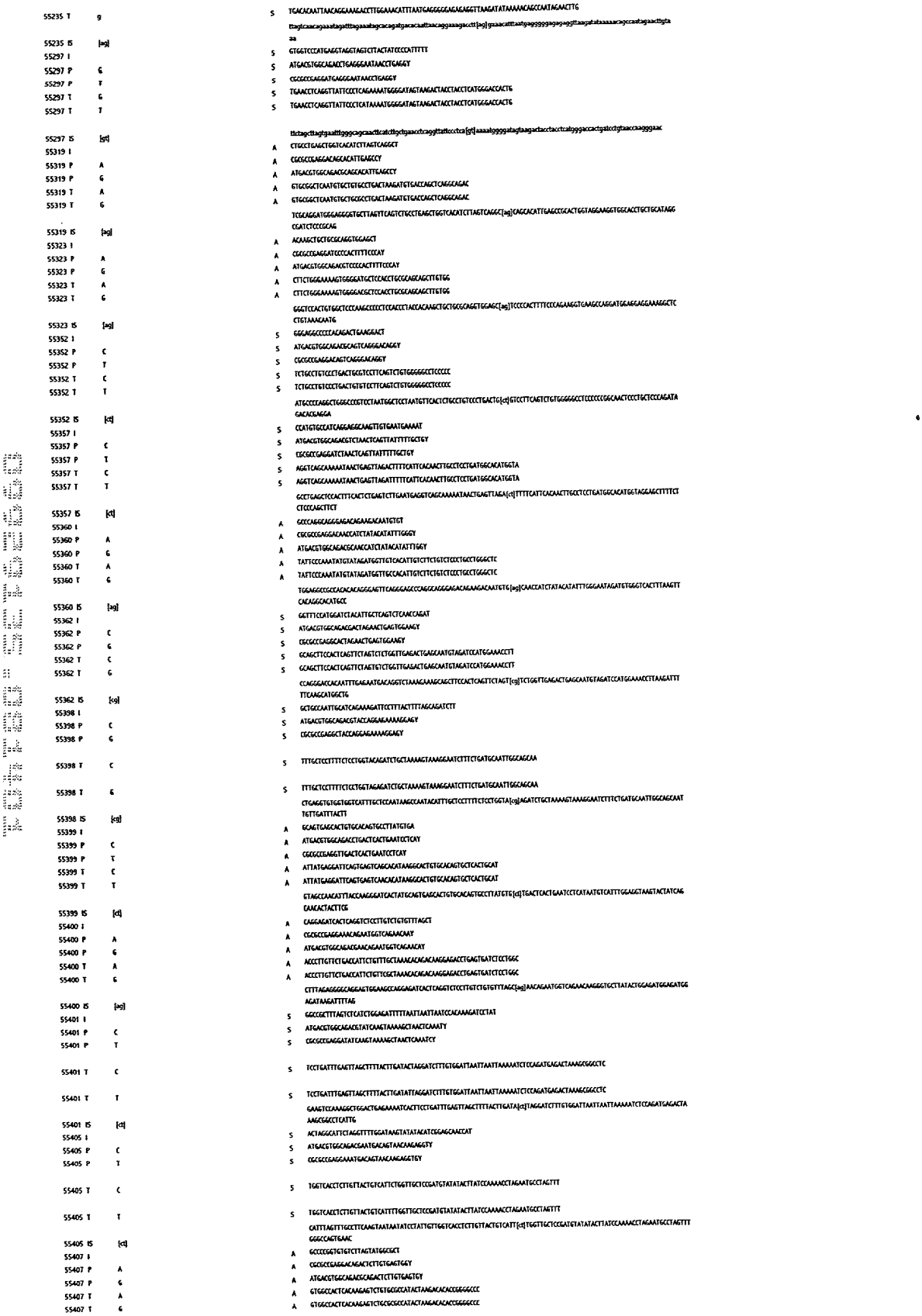


FIGURE 129C



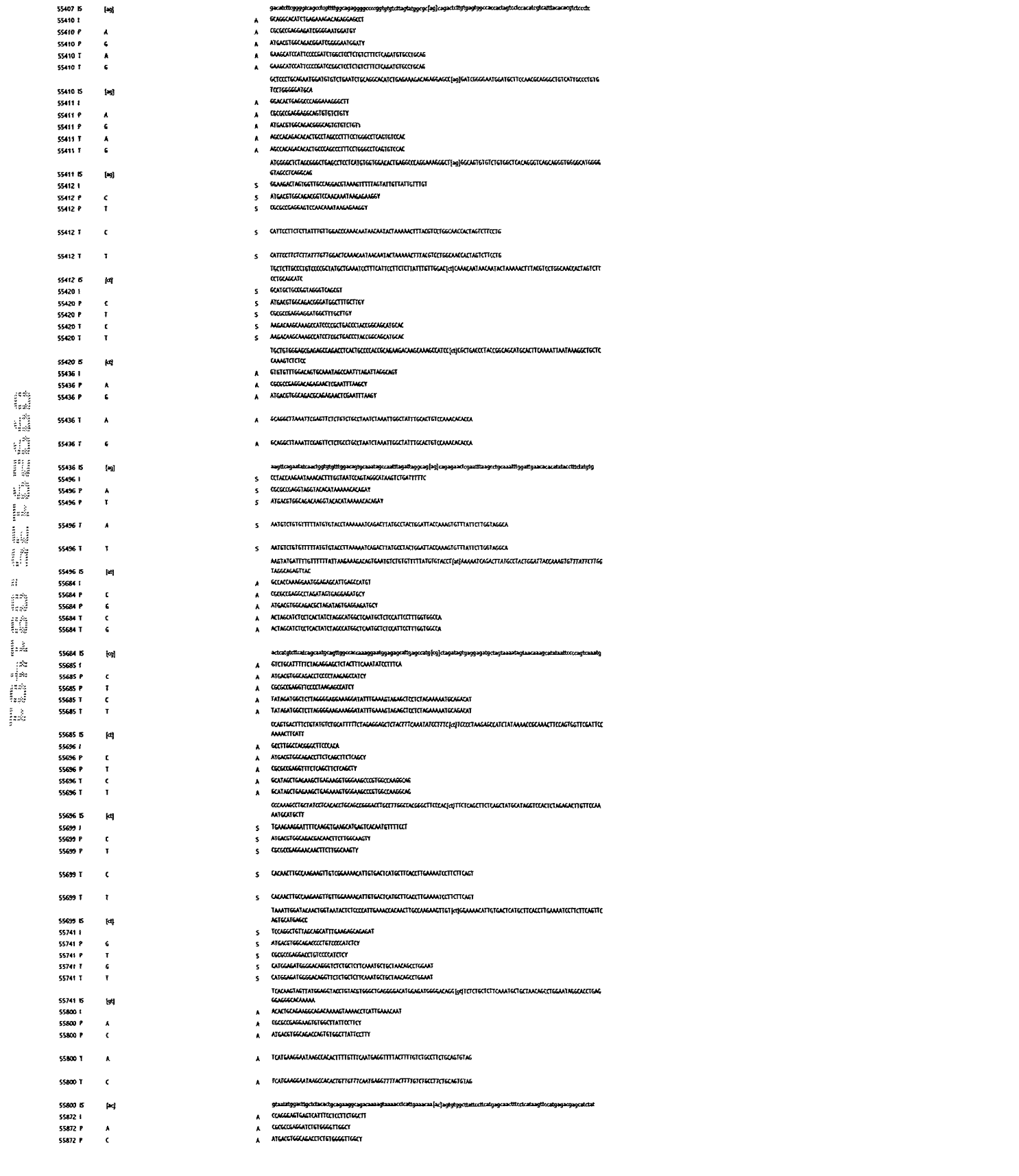


FIGURE 129C

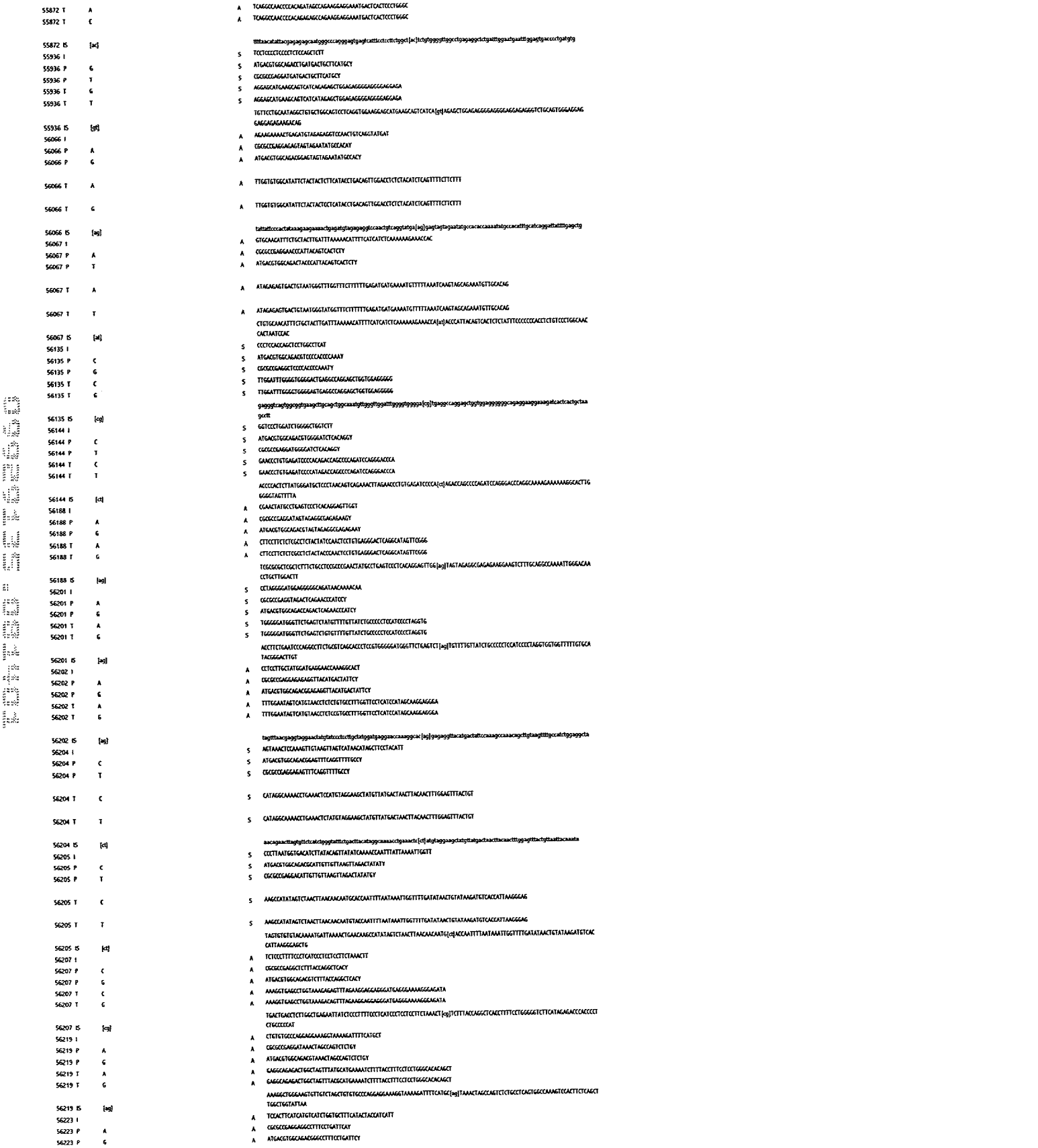


FIGURE 129C

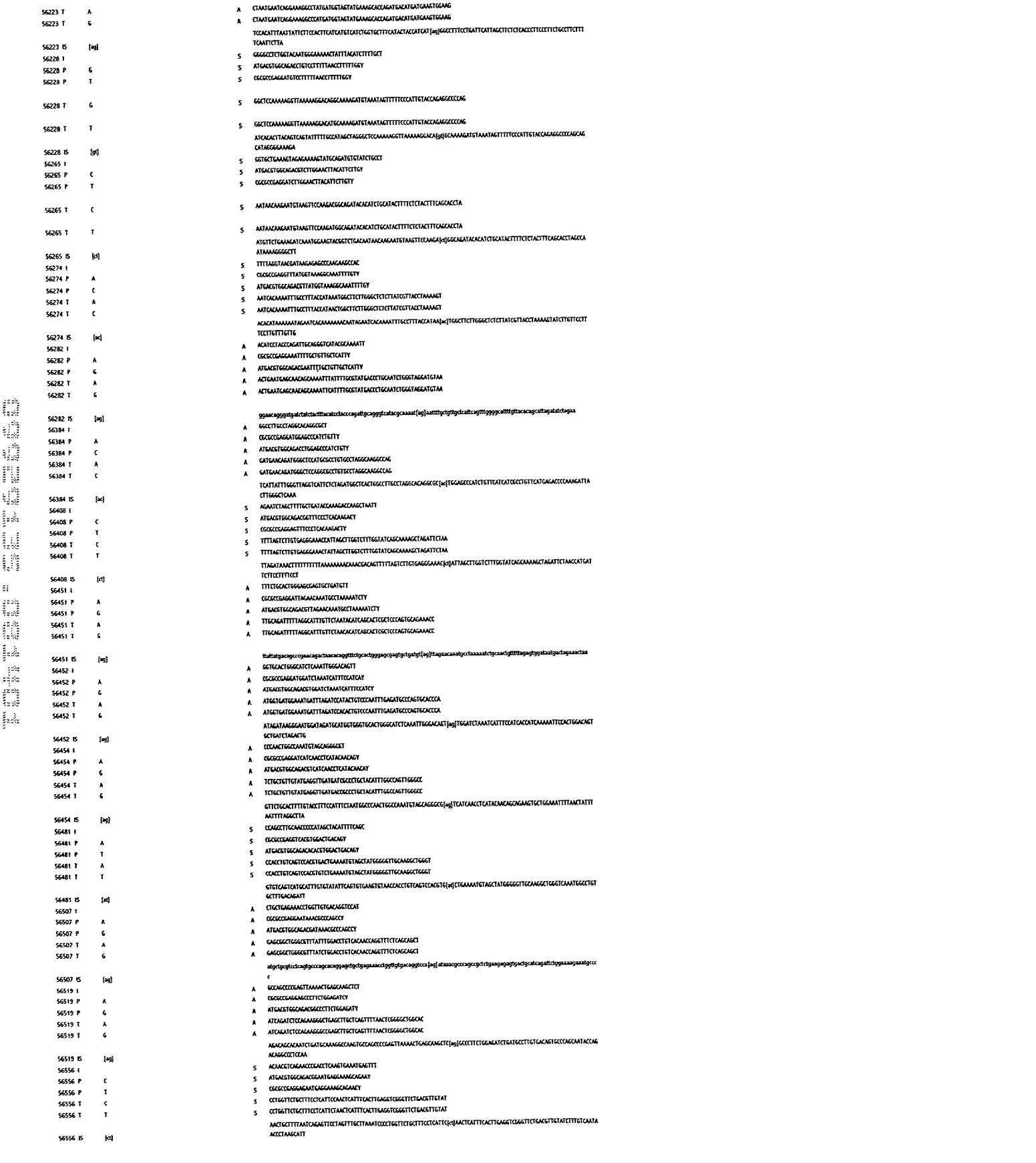


FIGURE 129C

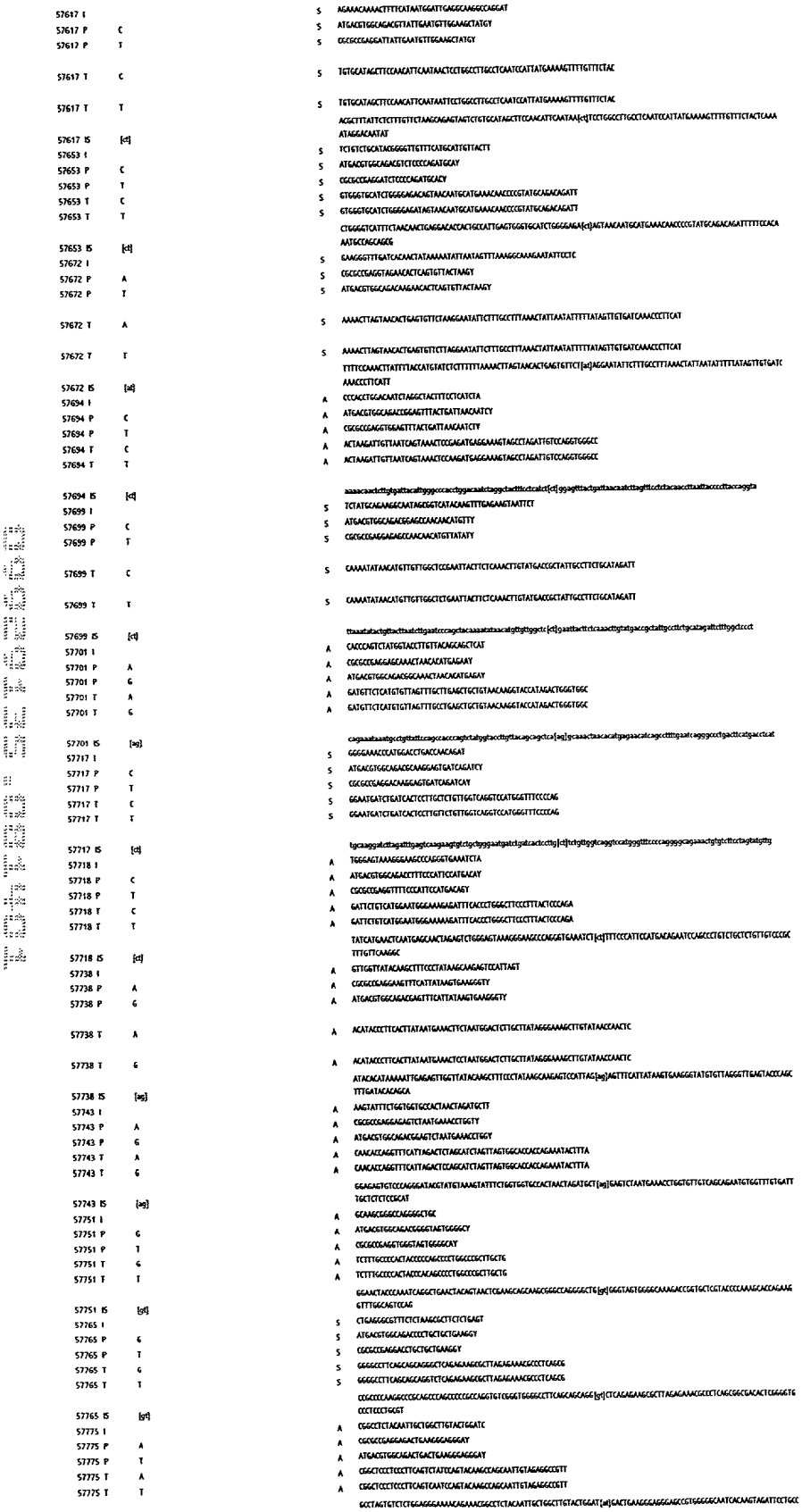


FIGURE 129C

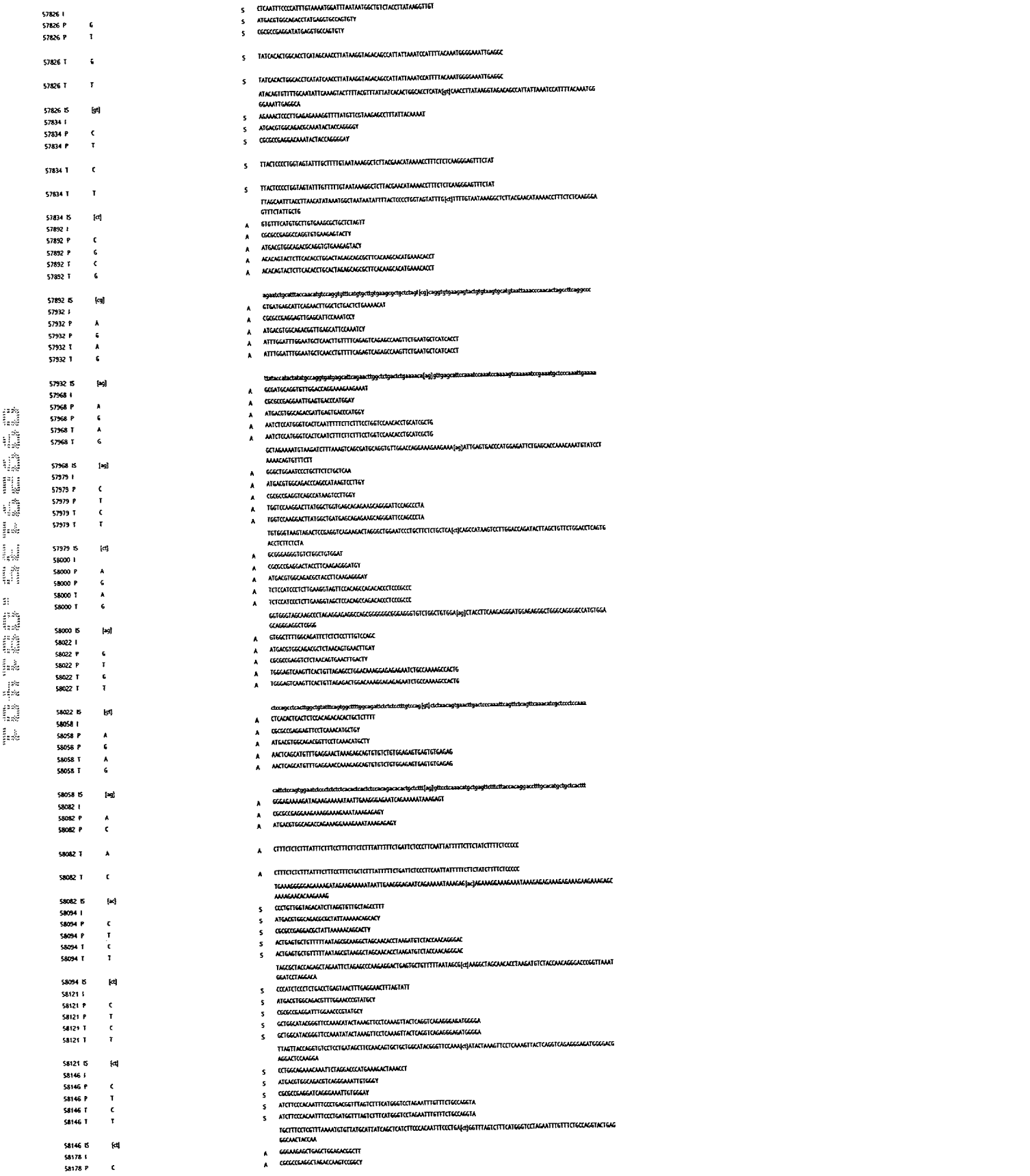


FIGURE 129C

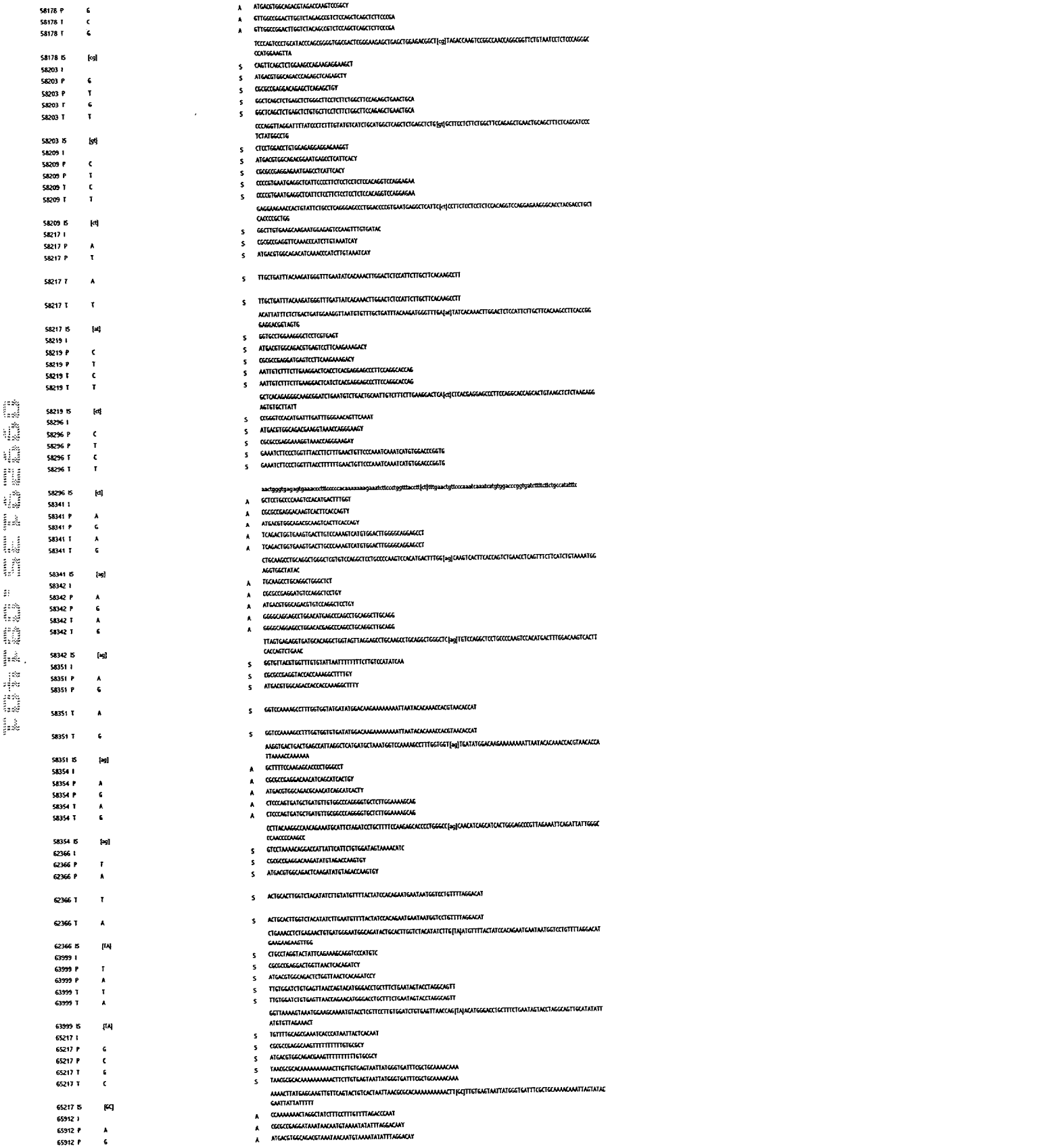


FIGURE 129C

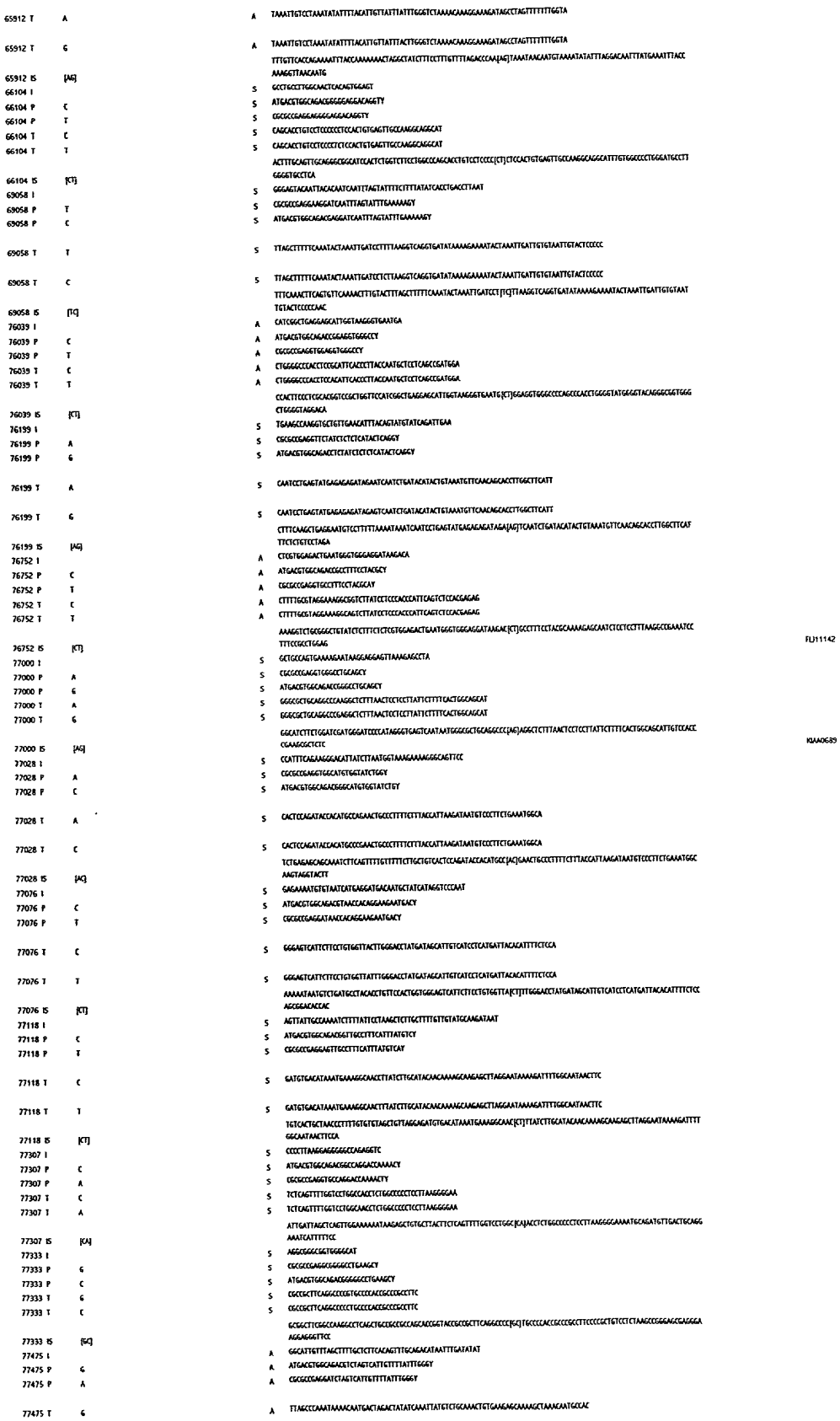


FIGURE 129C

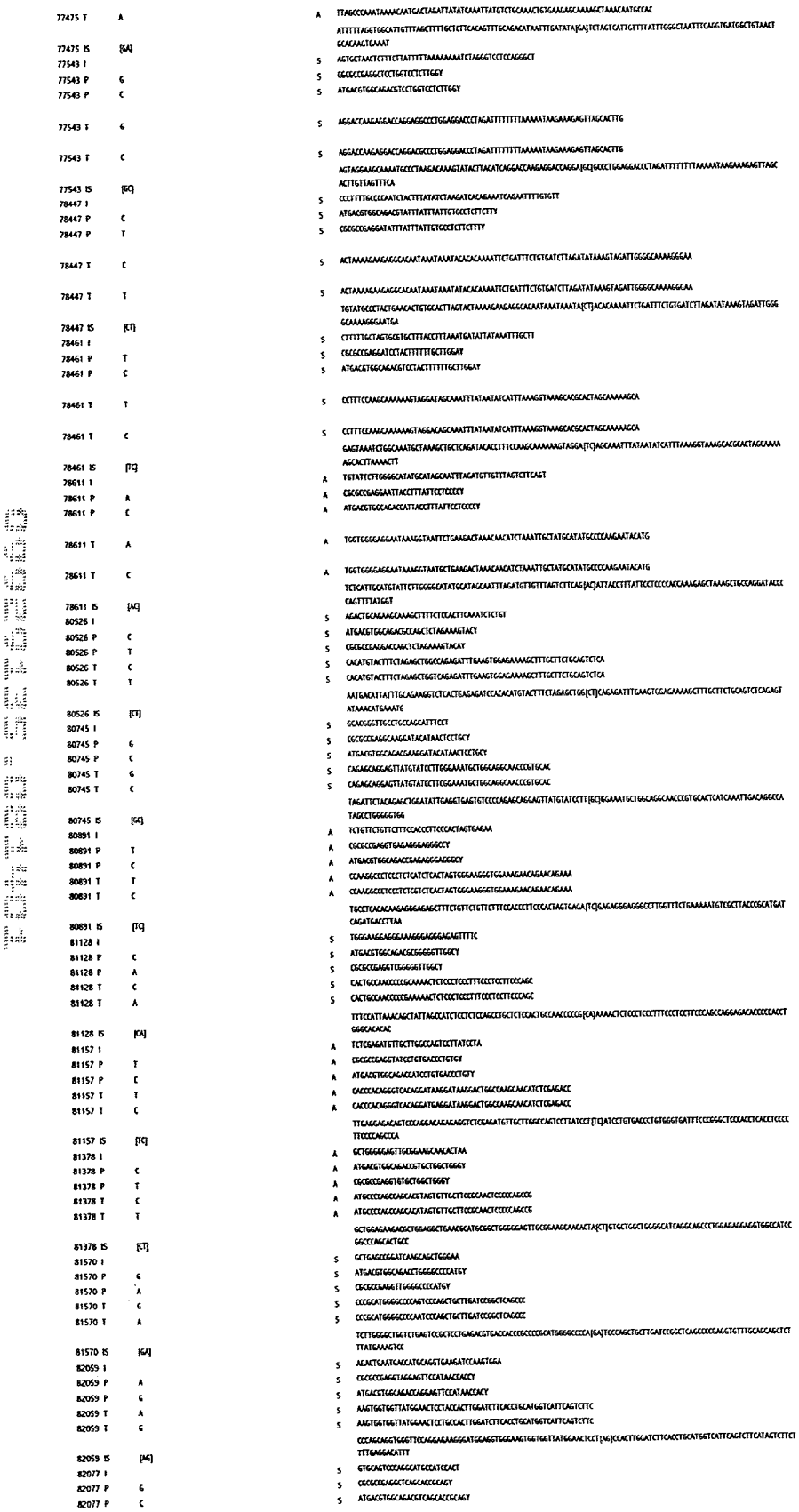
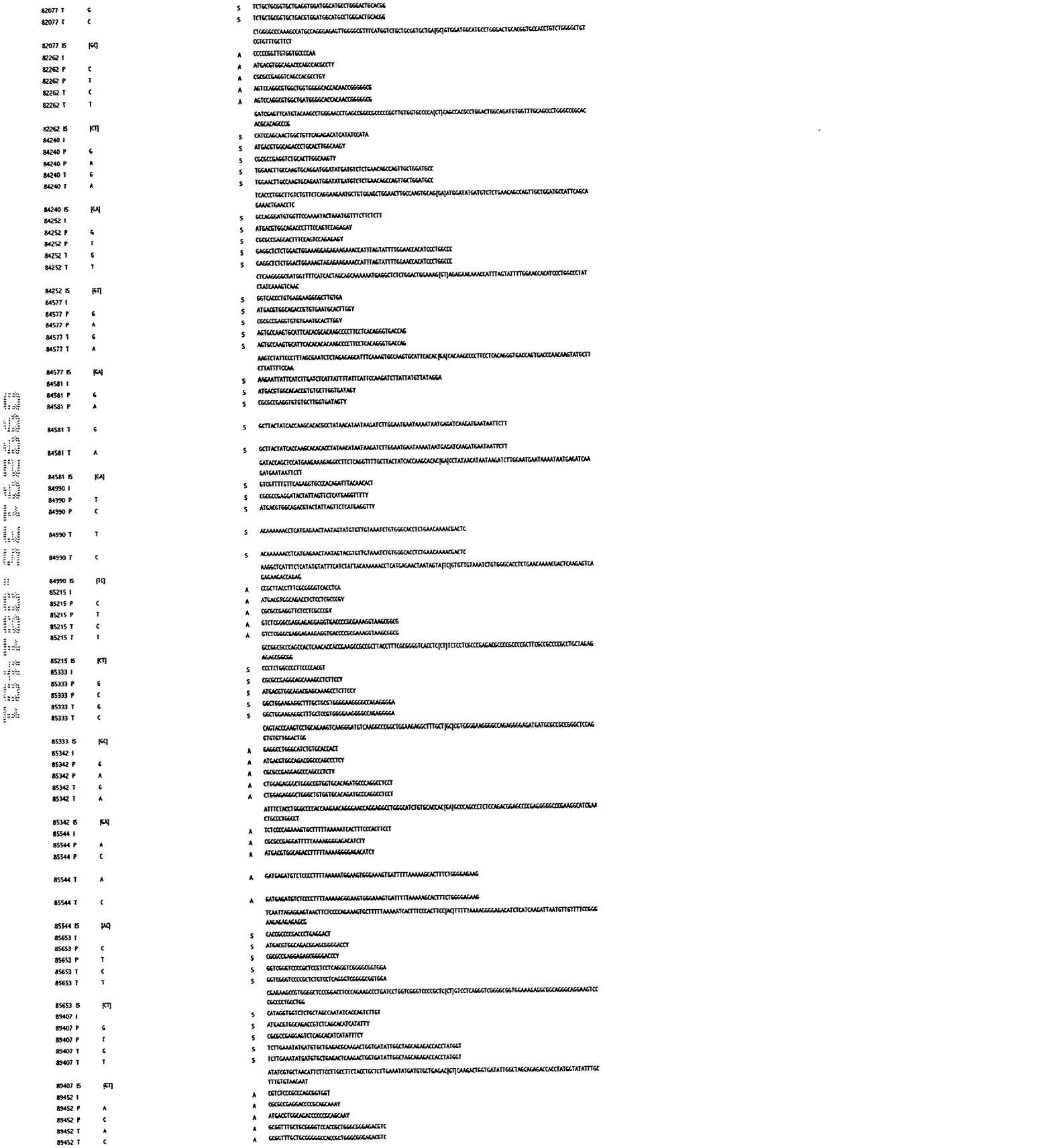
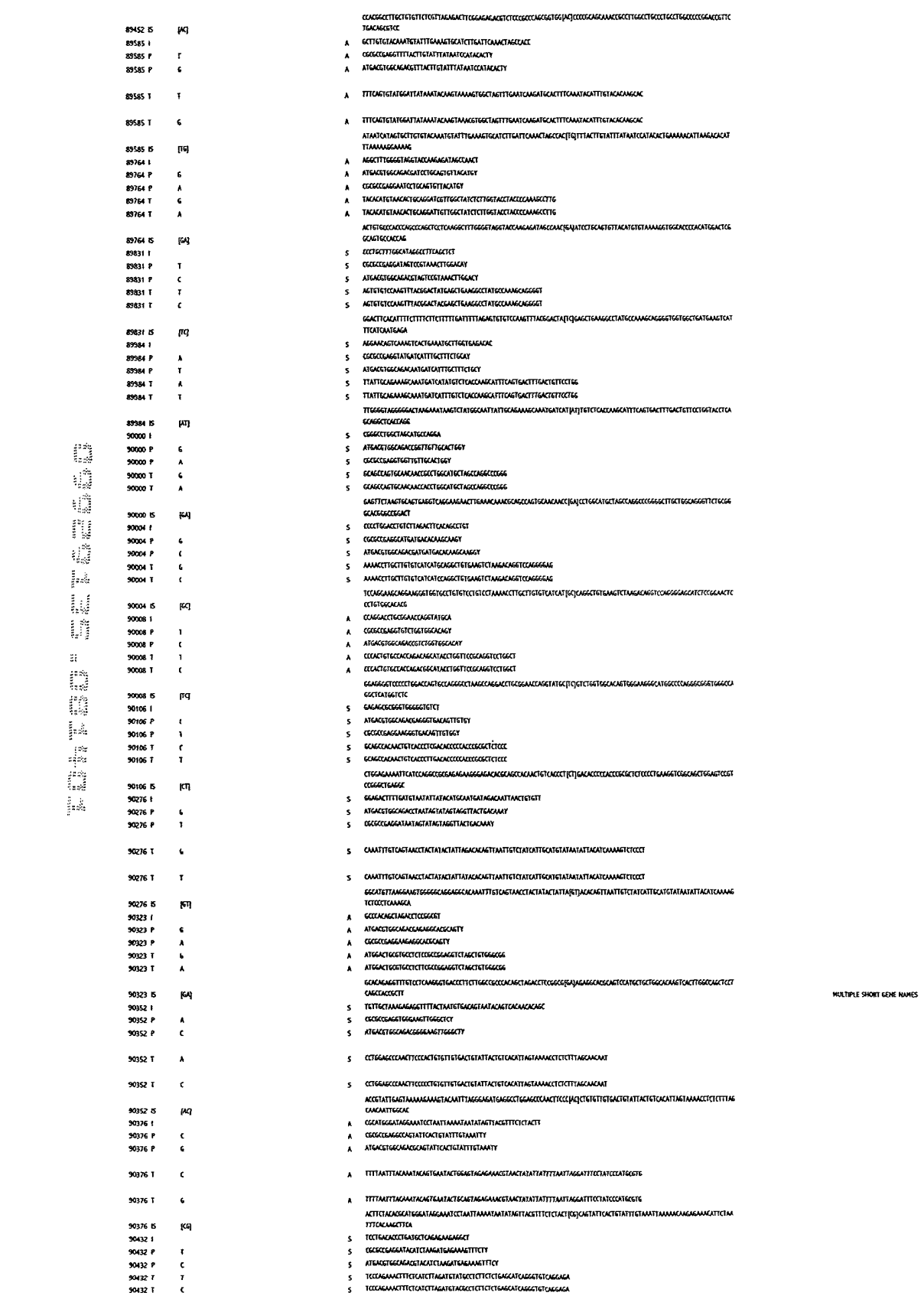


FIGURE 129C




MULTIPLE SHORT GENE NAMES

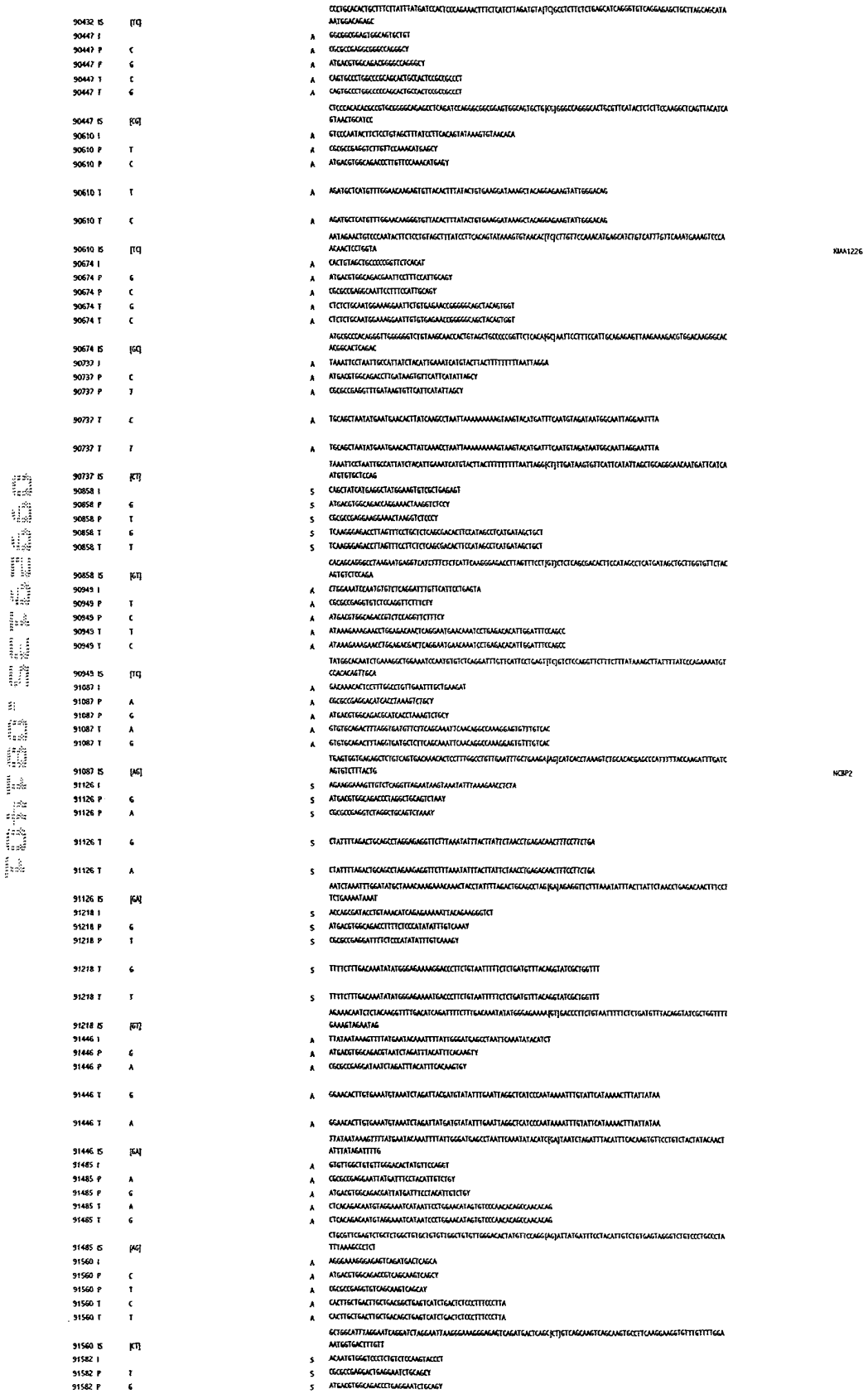


FIGURE 129C

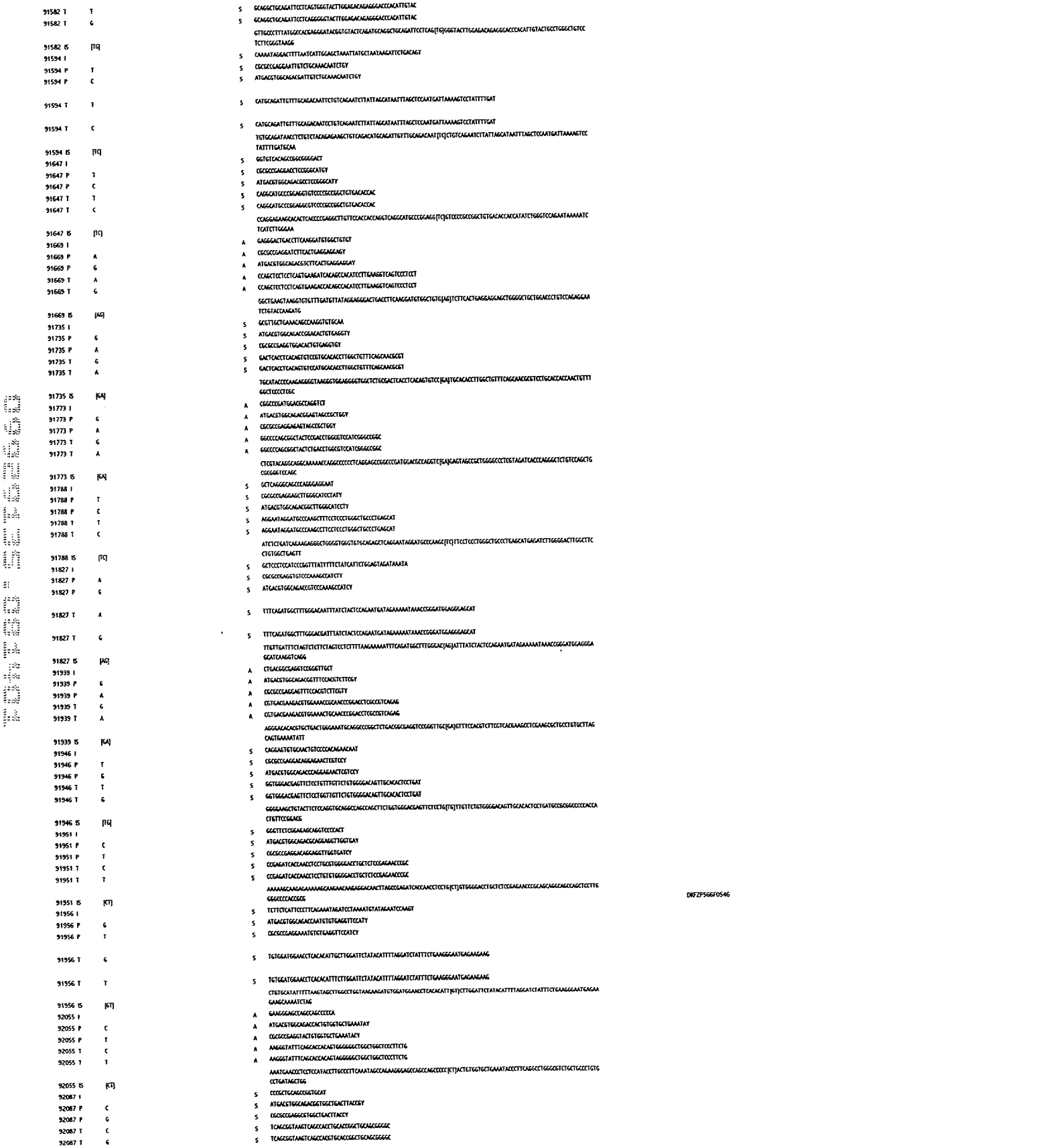


FIGURE 129C

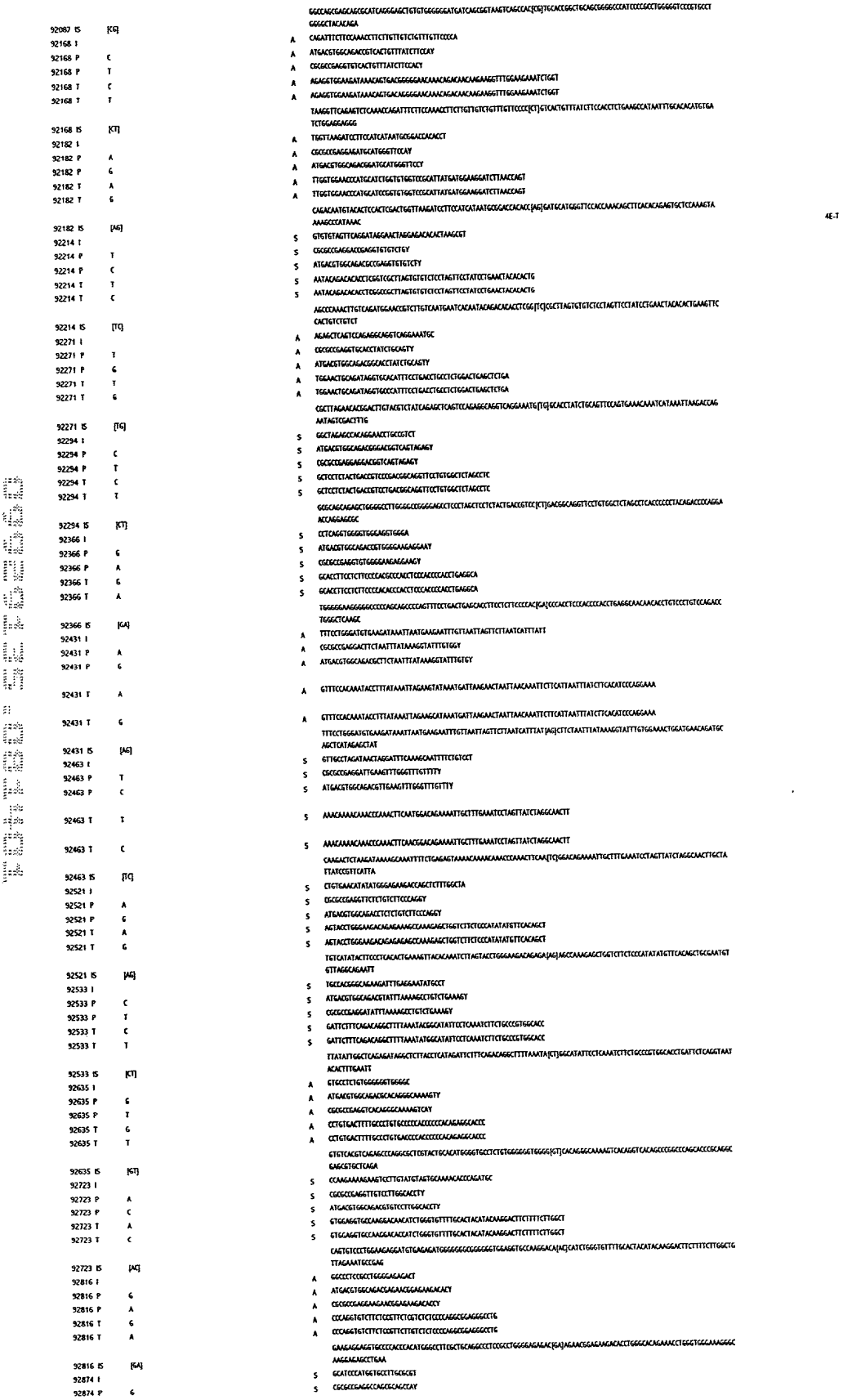
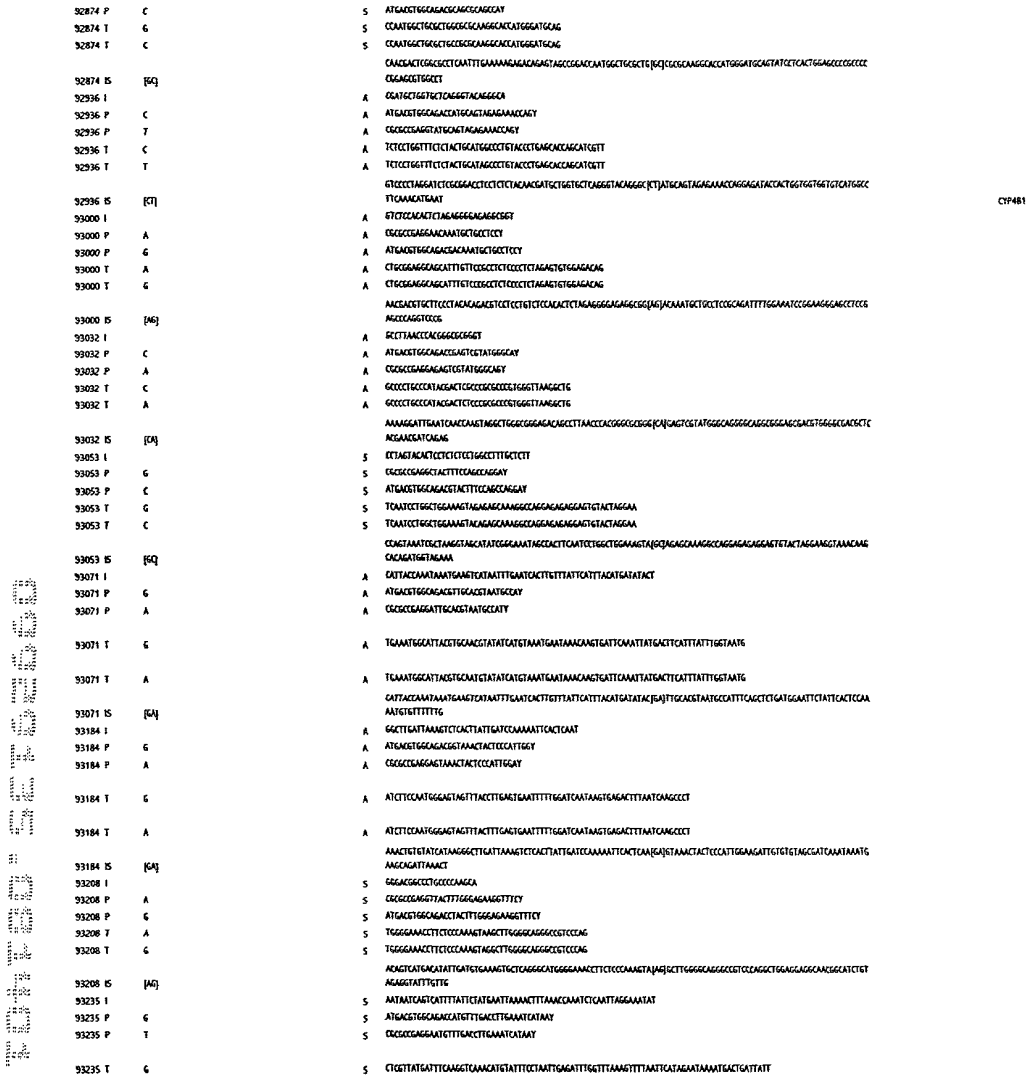
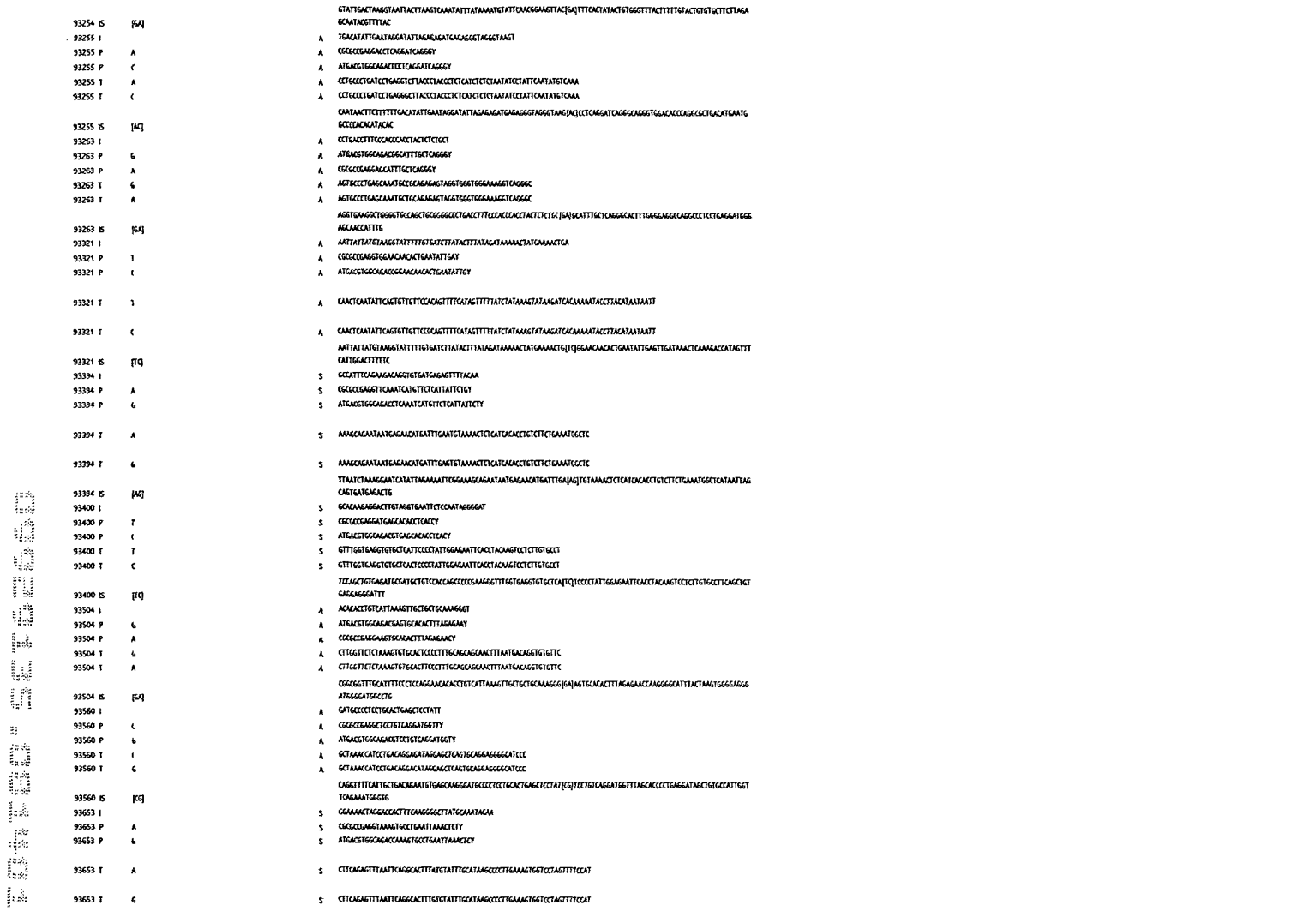


FIGURE 129C





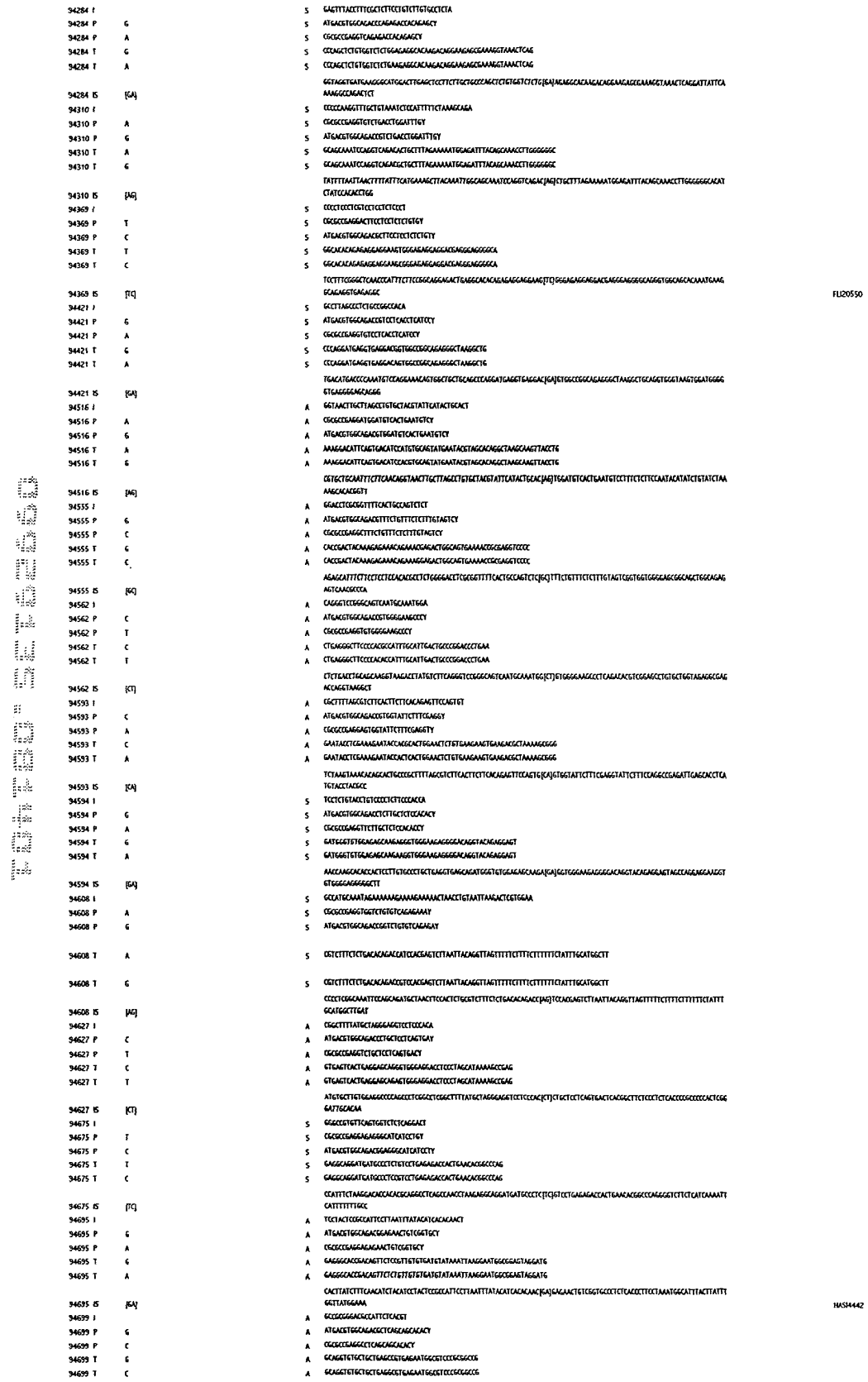

94284 t S GAGTTTACCTTTCGCTCTTCCTGTCTTGTGCCTCTA
94284 P G S ATGACGTGGCAGACCCAGAGACCACAGAGCT
94284 P A S CGCGCCGAGGTCAGAGAACACAGAGCY
94284 T G S CCCAGCTCTGTGGTCTCTGAAGAGGCACAAGACAGGAAGAGCGAAAGGTAAACTCAG
94284 T A S CCCAGCTCTGTGGTCTCTGAAGAGGCACAAGACAGGAAGAGCGAAAGGTAAACTCAG
94284 IS [GA] GGTAGGTGATGAAGGGCATCGACTTGAGCTCCTTCTTGCTGCCCAGCTCTGTGGTCTCTG[GA]AGAGGCACAAGACAGGAAGAGGCGAAAGGTAAACTCAGGATTATTCA AAAGGCCAGCACTCT
94310 t S CCCCCAAGGTTTGCTGTAAATCTCCATTTTTCTAAAGCAGA
94310 P A S CGCGCCGAGGTGTCTGACCTGGATTTGY
94310 P G S ATGACGTGGCAGACCGTCTGACCTGGATTTGY
94310 T A S GCAGCAAATCCAGGTCAGACGCTGCTTTAGAAAAATGCAGATTTACAGCAAACCTTGGGGGGGC
94310 T G S GCAGCAAATCCAGGTCAGACGCTGCTTTAGAAAAATGCAGATTTACAGCAAACCTTGGGGGGC
94310 IS [AG] TATTTTAATTAACTTTTATTTCATGAAAGCTTACAAATTGGCAGCAAATCCAGGTCAGAC[AG]CTGCTTTAGAAAAATGGCAGATTTACAGCAAACCTTGGGGGCACAT CTATCCACACCTGG
94369 t S CCCCTCCCTCGTCCTCCTCTCCCT
94369 P T S CGCGCCGAGGACTTCCTCCTCCTCTGTGY
94369 P C S ATGACGTGGCAGACGCTTCCTCCTCCTCTGTY
94369 T T S GGCACACAGAGAGGAGGAAGTGGGAGAGGAGGACCAGGGAGGGGCA
94369 T C S GGCACACAGAGAGGAGGAAGCGGGAGAGGAGGACCAGGGAGGGGCA
94369 IS [TC] TCCTTTCGGGCTCAACCCATTTCTTCCGGCAGGACACTGAGGCACACAGAGAGCAGGAAGTT[C]GGGAGAGGAGGACCAGGGAGGGGCAGGGTGGCAGCACAAATGAAG GCAGAGGTGAGAGGC FLI20550
94421 t S GCCTTAGCCCTCTGCCGGCCACA
94421 P G S ATGACGTGGCAGACCGTCCTCACCTCATCCY
94421 P A S CGCGCCGAGGTGTCCTCACCTCATCCY
94421 T G S CCCAGGATGAGGTGAGGACGGTGGCCGGCAGAGGGCTAAGGCTG
94421 T A S CCCAGGATGAGGTGAGGACAGTGGCCGGCAGAGGGCTAAGGCTG
94421 IS [GA] TGACATGACCCCAAATGTCCAGGAAACAGTGGCTGCTGCAGCCCAGGA[T]GAGGTGAGGACJGA]GTGGCCGGCAGAGGGCTAAGCCTGCAGGTGGGTAAGTGGATGGGG GTGAGGGGAGGAGG
94516 t A GGTAACTTGCTTAGCCTGTGCTAGTATTCATACTGCACT
94516 P A A CGCGCCGAGGATGGATGTCACTGAATGTCY
94516 P G A ATGACGTGGCAGACGTGGATGTCACTGAATGTCY
94516 T A A AAAGAACATTCAGTGACATCCATGTGCAGTATGAATACGTAGCACAGGCTAAGCAAGTTACCTG
94516 T G A AAAGAACATTCAGTGACATCCACGTGCAGTATGAATACGTAGCACAGGCTAAGCAAGTTACCTG
94516 IS [AG] CGTGCTGCAATTTCTTCAACAGGTAACTTGCTTAGCCTGTGCTAGTATTCATACTGCAC[AG]TGGATGTCACTGAATGTCCTTTCTCTTCCAATACATATCTGTATCTAA AAGCACACGGTT
94555 t A GGACCTCGCGGTTTTCACTGCCAGTCTCT
94555 P G A ATGACGTGGCAGACGTTTCTGTTTCTCTTTGTAGTCY
94555 P C A CGCGCCGAGGCTTTCTGTTTCTCTTTGTAGTCY
94555 T G A CACCGACTACAAGAGAAACAGAAACGAGACTGGCAGTGAAAACCGCGAGGTCCCC
94555 T C A CACCGACTACAAAGAGAAACAGAAAGGAGACTGGCAGTGAAAACCGCGAGGTCCCC
94555 IS [GC] AGAGCATTTCTTCCTCCTCCACACGCCTCTGGGGAACCTCGCGGTTTTCACTGCCAGTCTC[GC]TTTCTGTTTCTCTTTGTAGTCGGTGGTGGGGAGCGGCAGCTGGCAGAG AGTCAACGCCCA
94562 t A CAGGGTCCGGGCAGTCAATGCAAATGGA
94562 P C A ATGACGTGGCAGACCGTGGGGAAGCCCY
94562 P T A CGCGCCGAGGTGTGGGGAAGCCCY
94562 T C A CTGAGGGCTTCCCCACGCCATTTGCATTGACTGCCCGGACCCTGAA
94562 T T A CTGAGGGCTTCCCCACACCATTTGCATTGACTGCCCGGACCCTGAA
94562 IS [CT] CTCTGACCTGCAGCAAGGTAAGACCTATGTCTTCAGGGTCCGGGCAGTCAATGCAAATGG[CT]GTGGGGAAGCCCTCAGATACGTCGGAGCCTGTGCTGGTAGAGGCGAG ACCAGGTAAGGCT
94593 t A CGCTTTTAGCGTCTTCACTTCTTCACAGAGTTCCAGTGT
94593 P C A ATGACGTGGCAGACCGTGGTATTCTTTCGAGGY
94593 P A A CGCGCCGAGGAGTGGTATTCTTTCGAGGTY
94593 T C A GAATACCTCGAAAGAATACCAGCGACTGGAACTCTGTGAAGAAGTGAAGACGCTAAAAGCGGG
94593 T A A GAATACCTCGAAAGAATACCACTCACTGGAACTCTGTGAAGAAGTGAAGACGCTAAAAGCGGG
94593 IS [CA] TCTAAGTAAACACAGCACTGCCCGCTTTTAGCGTCTTCACTTCTTCACAGAGTTCCAGTG[CA]GTGGTATTCTTTCGAGGTATTCTTTCCAGCCCAGATTGAGCACCTCA TGTACCTACGCC
94594 t S TCCTCTGTACCTGTCCCCTCTTCCCACCA
94594 P G S ATGACGTGGCAGACCTCTGCTCTCCACACY
94594 P A S CGCGCCGAGGTTCTTGCTCTCCACACCY
94594 T G S GATGGGTGTGGAGAGCAAGAGGGTGGGAAGAGGGGACAGGTACAGAGGAGT
94594 T A S GATGGGTGTGGAGAGCAAGAAGGTGGGAAGAGGGGACAGGTACAGAGGAGT
94594 IS [GA] AACCAAGCACACCACTCCTTGTGCCCTGCTGAGGTGAGCAGATGGGTGTGGAAGAGCAAGA[GA]GGTGGGAAGAGGGCACAGGTACAGAGGAGTAGCCAGGAGGAAGGT GTGGGCAGGGGGCTT
94608 t S GCCATGCAAATAGAAAAAAGAAAAGAAAAACTAACCTGTAATTAAGACTCGTGGAA
94608 P A S CGCGCCGAGGTGGCTCTGTGTCAGAGAAAY
94608 P G S ATGACGTGGCAGACCGGTCTGTGTCAGAGAY
94608 T A S CGTCTTTCTCTGACAGAGACCATCCACGAGTCTTAATTACAGGTTAGTTTTCTTTTCTTTTTCTATTTGCATGGCTT
94608 T G S CGTCTTTCTCTGACAGAACCGTCACGAGTCTTAATTACAGGTTAGTTTTCTTTTCTTTTTCTATTTGCATGGCTT
94608 IS [AG] CCCCTCGGCAAATTCCAGCAGATGCTAACTTCCACTCTGCGTCTTTCTCTGACAGACAGACC[AG]TCCACGAGTCTTAATTACAGGTTAGTTTTCTTTTCTTTTTCTATTT GCATGGCTTGAT
94627 t A CGGCTTTTATGCTAGGGAAGGTCCTCCCACA
94627 P C A ATGACGTGGCAGACCCTGCTCCTCAGTGAY
94627 P T A CGCGCCGAGGTCTGCTCCTCAGTGACY
94627 T C A GTGAGTCACTGAGGAGCAGAGTGGGAGGAGCCTCCCTAGCATAAAAGCCGAG
94627 T T A GTGAGTCACTGAGGAGCAGAGTGGGAGGAGCCTCCCTAGCATAAAAGCCGAG
94627 IS [CT] ATGTGCTTGTGGAGGCCCAGCCCTCGGCCTCGGCTTTATGCTAGGGAGGTCCTCCCCAC[CT]CTGCTCCTCAGTGACTCACGGCTTCTCCCTCTCACCCCGCCCCCACTCGG GATTGCACAA
94675 t S GGGCCGTGTTCAGTGGTCTCTCAGGACT
94675 P T S CGCGCCGAGGAGAGGGCATCATCCTGY
94675 P C S ATGACGTGGCAGACGGAGGGCATCATCCTY
94675 T T S GAGGCAGGATGATGCCCTCTGTCCTCAGAGACCACTGAACAGCCCCAG
94675 T C S GAGGCAGGATCATGCCCTCCGTCCTGAGAGACCACTGAACAGCCCCAG
94675 IS [TC] CCATTTCTAAGCACACCACACGCAGGCCTCAGCCAACCTAAGAGGCAGGATGATGCCCTC[TC]GTCCTGAGAGACCACTGAACAGCCCAGGGTCTTCTCATCAAAATT CATTTTTTTGCC
94695 t A TCCTACTCCGCCATTCCTTAATTTATACATCACACAACT
94695 P G A ATGACGTGGCAGACGGAGAACTGTCGGTGCY
94695 P A A CGCGCCGAGGAGAGAACTGTCGGTGCY
94695 T G A GAGGGCACCGACAGTTCTCCGTTGTGTGATGTATAAATTAAGGAATGGCGGAGTAGGATG
94695 T A A GAGGGCACCGACAGTTCTCTGTTGTGTGATGTATAAATTAAGGAATGGCGGAGTAGGATG
94695 IS [GA] CACTTATCTTTCAACATCTACATCCTACTCCGGCCATTCCTTAATTTATACATCACACAAC[GA]GAGAACTGTCGGTGCCCTCTCACCCTTCCTAAATGGCATTTACTTATTT GGTTATGGAAA HASH4442
94699 t A GCCGCGGGAACGCCATTCTCACGT
94699 P G A ATGACGTGGCAGACGCTCAGCAGCACACY
94699 P C A CGCGCCGAGGCCTCAGCAGCACACY
94699 T G A GCAGGTGTGCTGCTGAGCCGTGAGAATGGCGTCCCGCGGCCG
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FIGURE 129C



FIGURE 129C

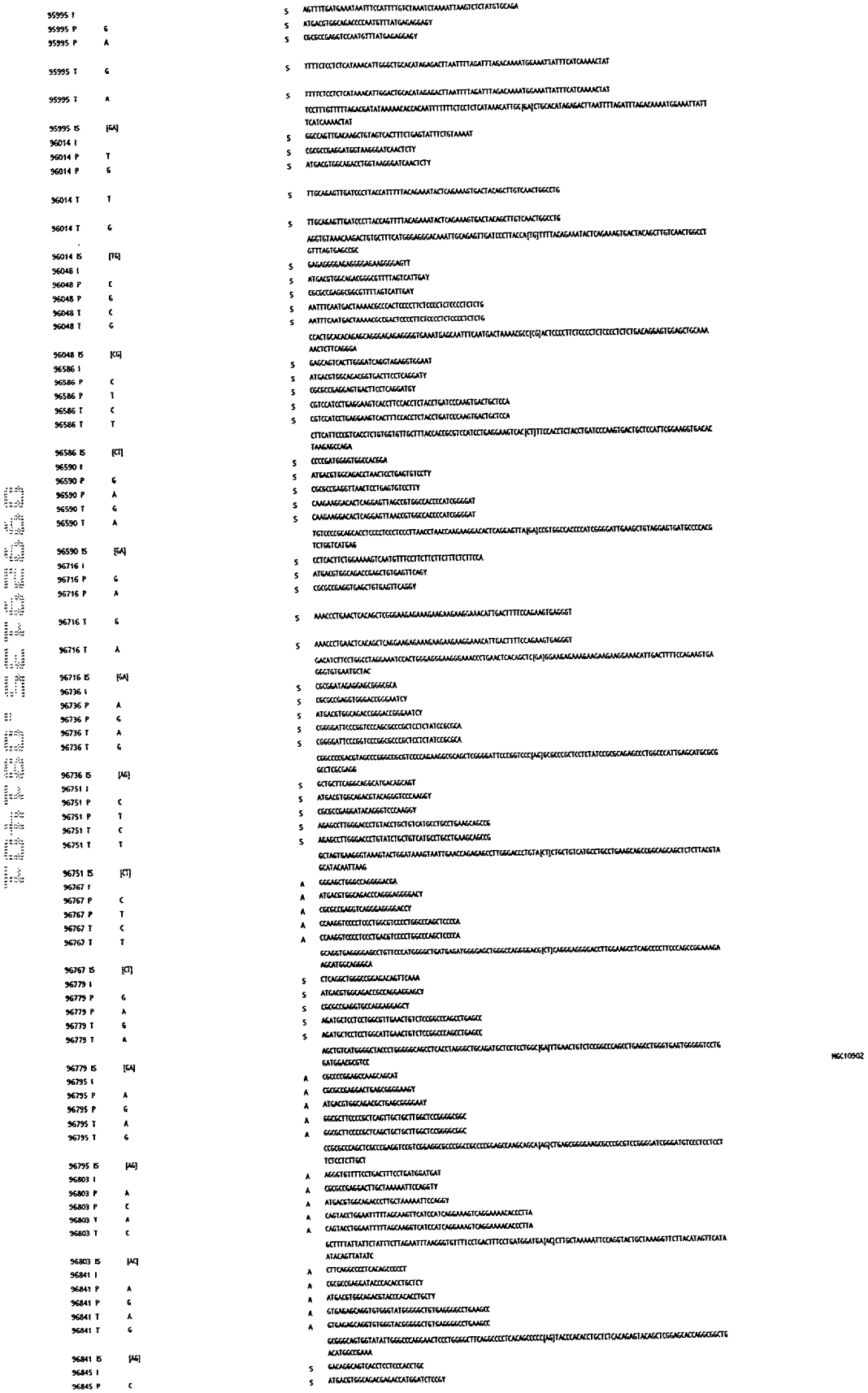


FIGURE 129C

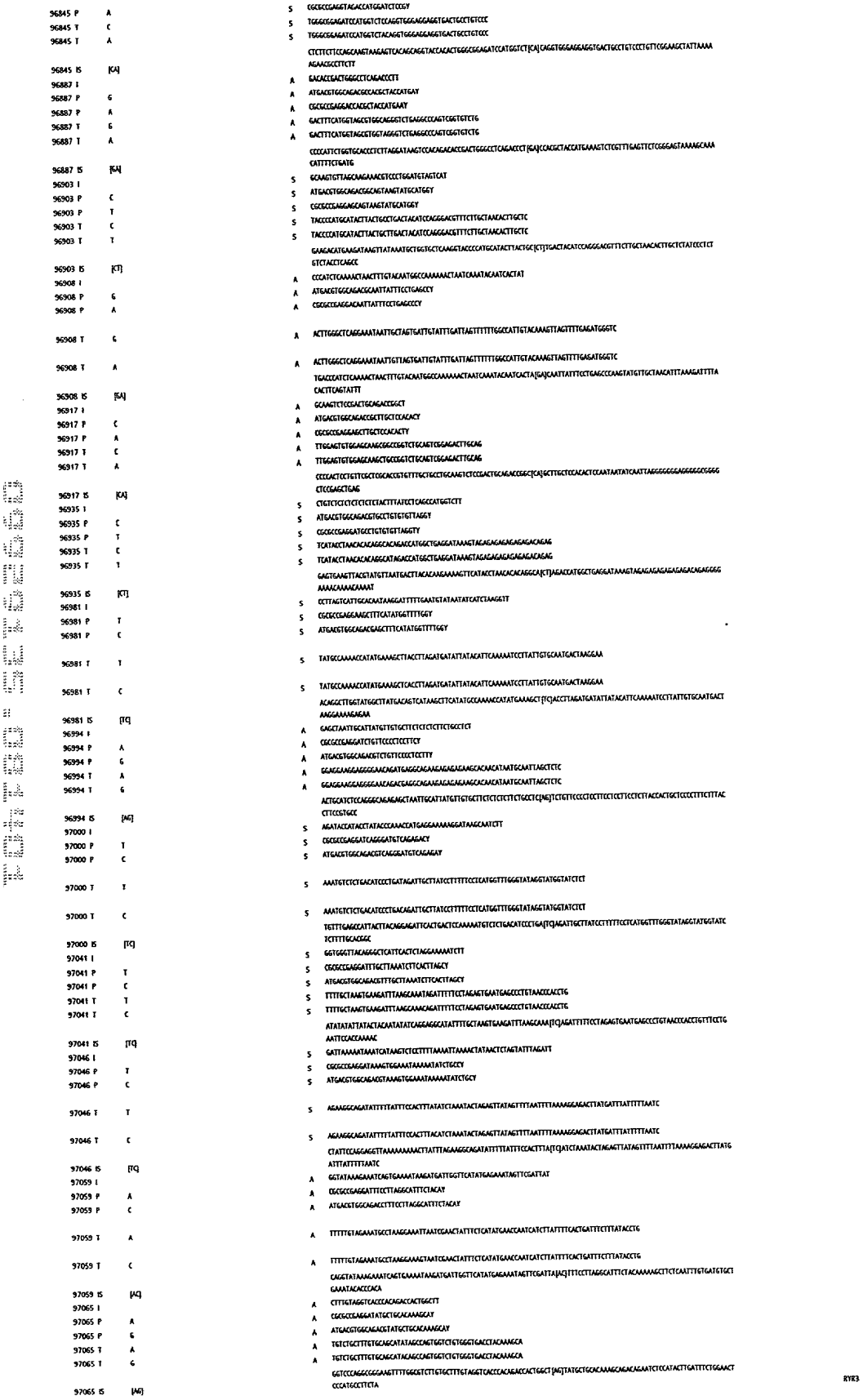
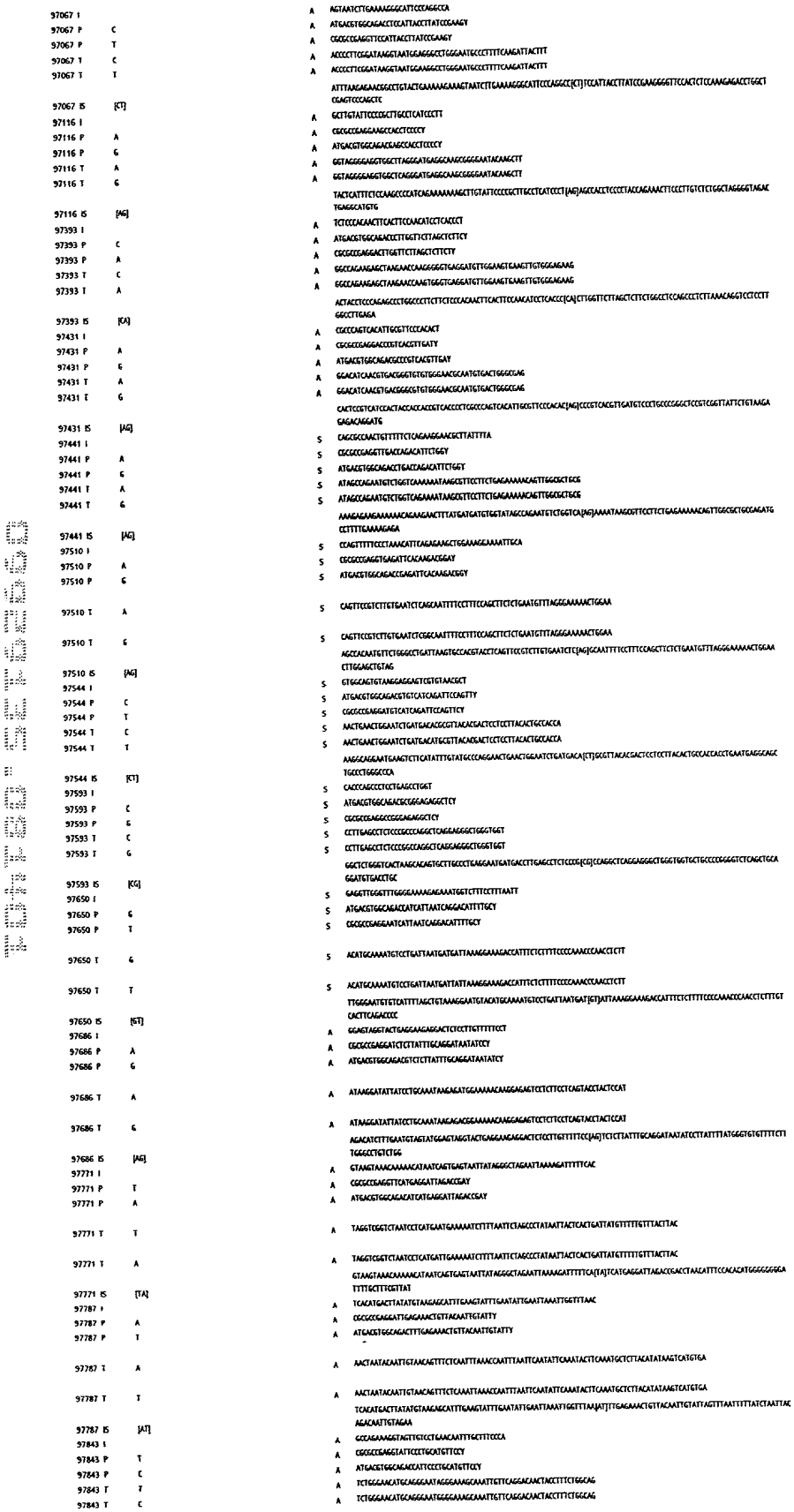
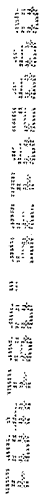


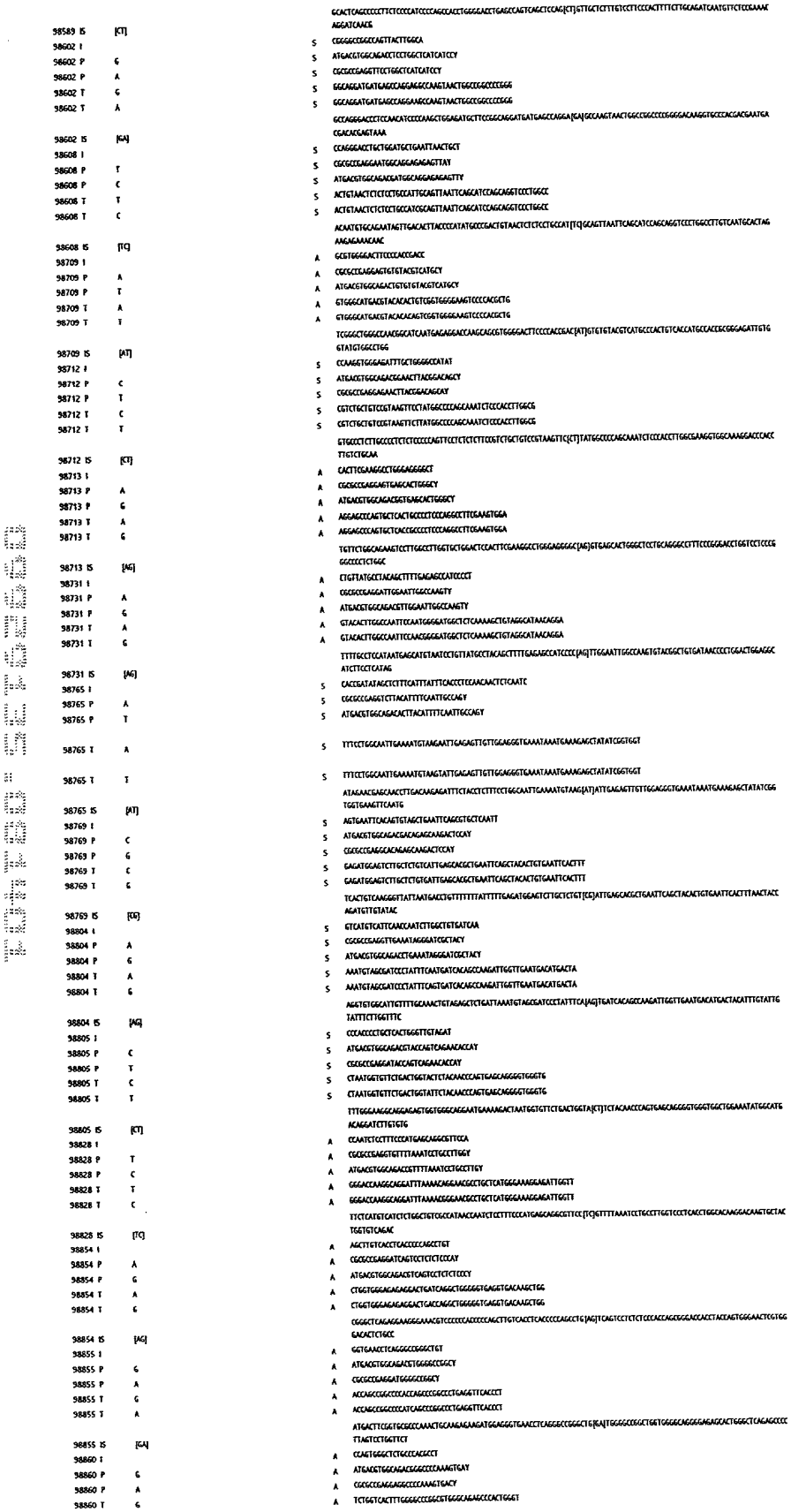
FIGURE 129C





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98443 I		S	GACTACCTATTGGGTAAGTGGAGGGGGTGGAGC		
98443 P	C	S	ATGACGTGGCAGACGGAAGGATGCATGGCT		
98443 P	A	S	CGCGCCGAAGGTGGAGGATGCATGGCY		
98443 T	C	S	CCGAGCCATGCATCCTCCCCTCCACCCCCTCCACTTACCCAATAGGTAGTCCA		
98443 T	A	S	CCGAGCCATGCATCCTCCACTCCACCCCCTCCACTTACCCAATAGGTAGTCCA		
98443 IS	[CA]		TGTCCCCAGGTGCTGGGCACACACAGCTCTGGCCACCAGGCTCCGAGCCATGCATCCTCC[CA]CTCCACCCCCTCCACTTACCCAATAGGTAGTCCACATTGTGGGGGTCAA GGGTCAGGAGT		
98445 I		S	CTCCGGCTGTGGCTGGTGGACACT		
98445 P	C	S	ATGACGTGGCAGACGGTGTTGGGCTTCTTGY		
98445 P	T	S	CGCGCCGAGGAGTGTTGGGCTTCTTGY		
98445 T	C	S	AGCAACAAGAAGCCCAACACCGTGTCCACCAGCCACAGCGGGAGCT		
98445 T	T	S	AGCAACAAGAAGCCCAACACTGTGTCCACCAGCCACAGCGGGAGCT		
98445 IS	[CT]		CATCCGGAGCCGCAGCCAGTCCATGGATGCCATGGGGCTGAGCAACAAGAAGCCCAACAC[CT]GTGTCCACCAGCCACAGCGGGAGCTTCGCGCCCAACAACCCCGACCTG GCCAAGGCGGCT		RAP1GA1
98464 I		S	CCAGAACCAAAGGACTCAGCTACTCACATCTGGTGT		
98464 P	C	S	ATGACGTGGCAGACGGGCCTGCAAATATCCY		
98464 P	T	S	CGCGCCGAGGAGGGCCTGCAAATATCCY		
98464 T	C	S	CCACGGATATTTGCAGGCCCCACCAGATGTGAGTAGCTGAGTCCTTTGGTTCTGGAG		
98464 T	T	S	CCACGGATATTTGCAGGCCTCACCAGATGTGAGTAGCTGAGTCCTTTGGTTCTGGAG		
98464 IS	[CT]		CAAGCCCTGTGCCCCGGGGACGTCTCTCCAACACGACTTCATCCACGGATATTTGCAGGCC[CT]CACCAGATGTGAGTAGCTGAGTCCTTTGGTTCTGGAGGAGCAGGGAG GGGCTGTCCCTGG		
98467 I		S	CTGAACCGGGTCAGCCTTTGATCTCTCCT		
98467 P	T	S	CGCGCCGAGGATGTGAGAGTGTATGCTGY		
98467 P	C	S	ATGACGTGGCAGACGTGTGAGAGTGTATGCTGY		
98467 T	T	S	TGGGCAGCATACACTCTCACATGGAAGAGATCAAAGGCTGACCCGGCTCAGTC		
98467 T	C	S	TGGGCAGCATACACTCTCACACGGAAGAGATCAAAGGCTGACCCGGCTCAGTC		
98467 IS	[TC]		GAGTGAGAAGGTCCACCCCAAGGCATCTGCCCAGAGGACTGGGCAGCATACACTCTCACA[TC]GGAAGAGATCAAAGGCTGACCCGGCTTCAGTCCTGGCCACACCCTGA CCCCTGCCTTTAC		
98476 I		A	GTAGAACGTAGAATGGATATCTTAAACAGATACATGCAAAGTTTAAAATCAA		
98476 P	C	A	ATGACGTGGCAGACCGGCCATACCAGAAGAY		
98476 P	T	A	CGCGCCGAGGTGGCCATACCAGAAGAAY		
98476 T	C	A	ACATTTCTTCTGGTATGGCCGTGATTTTAAACTTTGCATGTATCTGTTTAAGATATCCATTCTACGTTCTACAA		
98476 T	T	A	ACATTTCTTCTGGTATGGCCATGATTTTAAACTTTGCATGTATCTGTTTAAGATATCCATTCTACGTTCTACAA		
98476 IS	[CT]		CTCTAAGTGTAGAAACGTAGAATGGATATCTTAAACAGATACATGCAAAGTTTAAAATCA[CT]GGCCATACCAGAAGAAATGTTCATTAACAACTTATTTAGGATTTAT AGAAACGTACCTCT		
98478 I		A	GCCTGGTCCCCAGCAATCAGAAGTATAGGGAACT		
98478 P	A	A	CGCGCCGAGGATTGCCTTCCTACCATACTY		
98478 P	G	A	ATGACGTGGCAGACGTTGCCTTCCTACCATACY		
98478 T	A	A	TGGAAGTATGGTAGGAAGGCAATGTTCCCTATACTTCTGATTGCTGGGGACCAGGCAG		
98478 T	G	A	TGGAAGTATGGTAGGAAGGCAACGTTCCCTATACTTCTGATTGCTGGGGACCAGGCAG		
98478 IS	[AG]		ATCCTCTCCTCCTCTCTCCCAAGGCTCTGCCTGGTCCCCAGCAATCAGAAGTATAGGGAAC[AG]TTGCCTTCCTACCATACTTCCAGCCCTGGAGAGGATCTCTCCCAATCCC CTGGCTTACAC		
98493 I		A	CTCCAAAGTGCCTTTGTGATTTTTGTAGCAGTTTTCTGTTATTTCCTT		
98493 P	A	A	CGCGCCGAGGATTGTGTTAGAAATGACCTATCTAY		
98493 P	G	A	ATGACGTGGCAGACGTTGTGTTAGAAATGACCTATCTY		
98493 T	A	A	TTCATAGATAGGTCATTTCTAACACAATAGGAAATAACAGAAAACTGCTACAAAAATCACAAAGGCACTTTGGAGAA		
98493 T	G	A	TTCATAGATAGGTCATTTCTAACACAACAGGAAATAACAGAAAACTGCTACAAAAATCACAAAGGCACTTTGGAGAA		
98493 IS	[AG]		GAGCCCATCAGTTCTCCAAAGTGCCTTTGTGATTTTTGTAGCAGTTTTCTGTTATTTCCT[AG]TTGTGTTAGAAATGACCTATCTATGAAAGGCTTACCACTTCACTTCT GACCTGGTTTCCT		
98501 I		S	TCTCTGGGAAGACAGAGAGAAAGTCCCCAGT		
98501 P	T	S	CGCGCCGAGGAGAAGAATACTACAGACTTGGY		
98501 P	C	S	ATGACGTGGCAGACGGAAGAATACTACAGACTTGGY		
98501 T	T	S	AAGGCCAAGTCTGTAGTATTCTTCTCTGGGGACTTTTCTTCTGTCTTCCCAGAGAAG		
98501 T	C	S	AAGGCCAAGTCTGTAGTATTCTTCCCTGGGGACTTTTCTTCTGTCTTCCCAGAGAAG		
98501 IS	[TC]		TGCAGTTGGCAGCAATCTGCACCCCTAGCTGTCCTAAGGCCAAGTCTGTAGTATTCTTC[TC]CTGGGGACTTTTCTTCTGTCTTCCCAGAGAAGATTAGTACATCACTGT CTGTGGCAACCA		
98510 I		A	CCCCAGGACAGGAGCTTGACGGATGAT		
98510 P	G	A	ATGACGTGGCAGACGGTGCAGCCAGCCT		
98510 P	A	A	CGCGCCGAGGAGTGCAGCCAGCCT		
98510 T	G	A	GGGTGGCTGGCTGCACCTCATCCGTCAAGCTCCTGTCCTGGGGGC		
98510 T	A	A	GGGTGGCTGGCTGCACTTCATCCGTCAAGCTCCTGTCCTGGGGGC		
98510 IS	[GA]		TCCCCACCCCACCCTCAGAAGCTGCTTGCTCTGCCCCAGGACAGGAGCTTGACGGATGA[GA]GTGCAGCCAGCCACCCAGGTGCCATTTCCAGTCTGACTTCCCAGAAATG TGCACCATGTCC		
98557 I		S	CCCCTGGGGAGGCCGTGCCT		
98557 P	C	S	ATGACGTGGCAGACGTCCATTGCACAGTGGY		
98557 P	T	S	CGCGCCGAGGATCCATTGCACAGTGGY		
98557 T	C	S	GAGTCCACTGTGCAATGGACGCACGGCCTCCCCACGGGGC		
98557 T	T	S	GAGTCCACTGTGCAATGGATGGACGGCCTCCCCACGGGGC		
98557 IS	[CT]		CCCTGGTCCAGCTGAGGTGAGGCCCCAGCACACACCAGGCAGAGTCCACTGTGCAATGGA[CT]GGCACGGCCTCCCCACGGGGCTGACAGTGGCACGGCCTCCCCACGGGG CTGACGGTGGCA		
98562 I		A	CTGAAACCTTTATTCCTTCACTGCAGGATATCATAAACAACCCTCTT		
98562 P	A	A	CGCGCCGAGGATTCATCATGGATGGGATTTY		
98562 P	G	A	ATGACGTGGCAGACGTTCATCATGGATGGGATTY		
98562 T	A	A	GGAGAAATCCCATCCATGATGAACAGAGGGTTGTTTATGATATCCTGCAGTGAAGGAATAAAGGTTTCAGGG		
98562 T	G	A	GGAGAAATCCCATCCATGATGAACAGAGGGTTGTTTATGATATCCTGCAGTGAAGGAATAAAGGTTTCAGGG		
98562 IS	[AG]		GTGTCCTGGGCCCCCTGAAACCTTTATTCCTTCACTGAGGATATCATAAACAACCCTCT[AG]TTCATCATGGATGGGATTTCTCCAACAGACATCTGCAGGGGATCCTC GGTGAGTGGGGC		
98565 I		S	TCTGTGGTGCTTGCTGTCACAGCTGATTCATCTAT		
98565 P	C	S	ATGACGTGGCAGAGTCCAGTGTTTTCAGGGY		
98565 P	T	S	CGCGCCGAGGATCCAGTGTTTTCAGGGY		
98565 T	C	S	AAACCCCTGAAAACACTGGACTAGATGAATCAGCTGTGACAGCAAGCACCACACAGAGA		
98565 T	T	S	AAACCCCTGAAAACACTGGATTAGATGAATCAGCTGTGACAGCAAGCACCACACAGAGA		
98565 IS	[CT]		CATCTCTTATTTCTCTCCAATTTTGGTGAATCCCAGTTAGAAACCCCTGAAAACACTGGA[CT]TAGATGAATCAGCTGTGACAGCAAGCACCACACAGAGATGAAAGAGTGC AGGGATTCGTGTC		
98589 I		A	GGGGACCTGAGCCAGTCAGCTCCAGA		
98589 P	C	A	ATGACGTGGCAGACCGTTGCTCTTTGTCCTTY		
98589 P	T	A	CGCGCCGAGGTGTTGCTCTTTGTCCTTCY		
98589 T	C	A	GTGGGAAGGACAAAGAGCAACACTGGAGCTGACTGGCTCAGGTCCCCAG		
98589 T	T	A	GTGGGAAGGACAAAGAGCAACACTGGAGCTGACTGGCTCAGGTCCCCAG		

FIGURE 129C



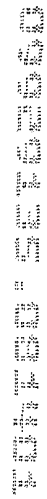
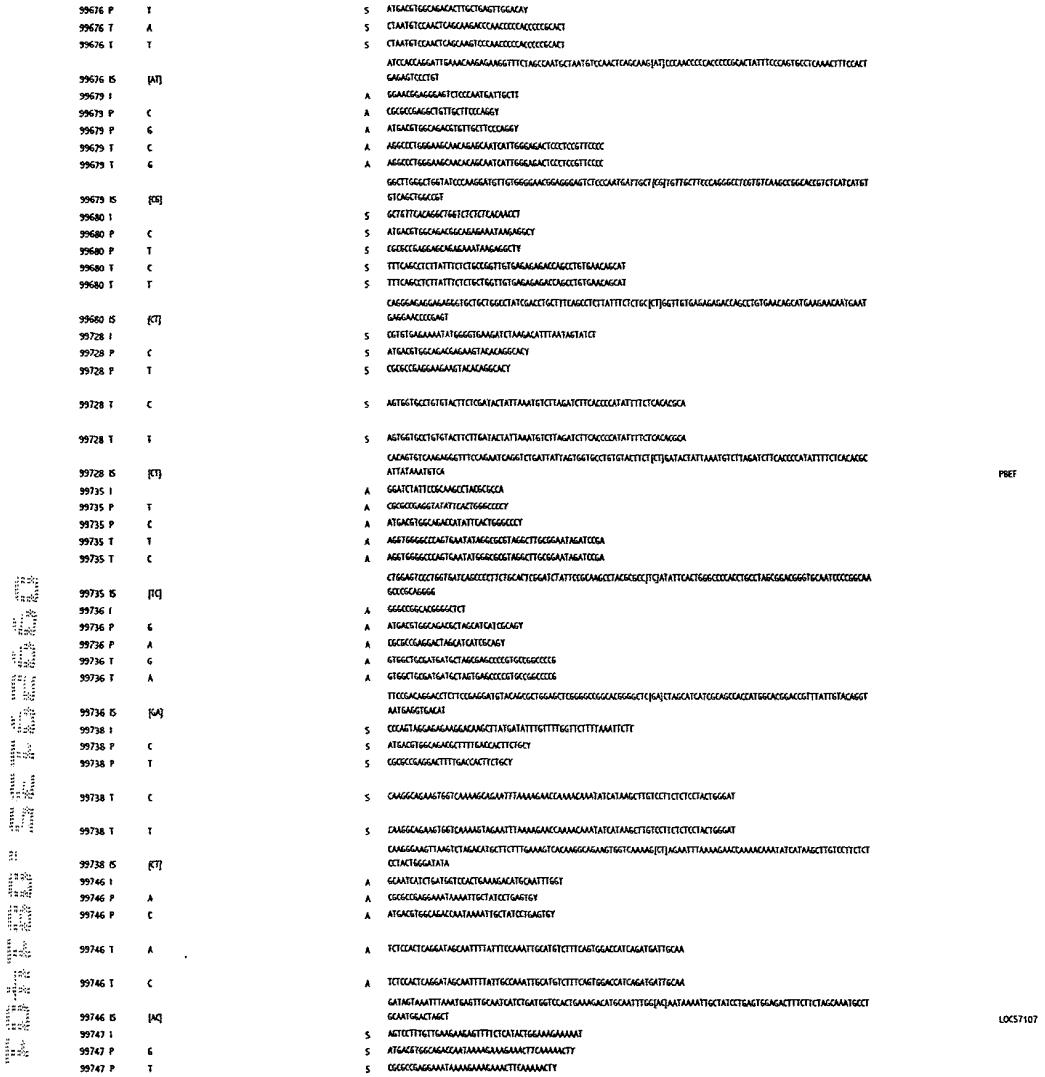
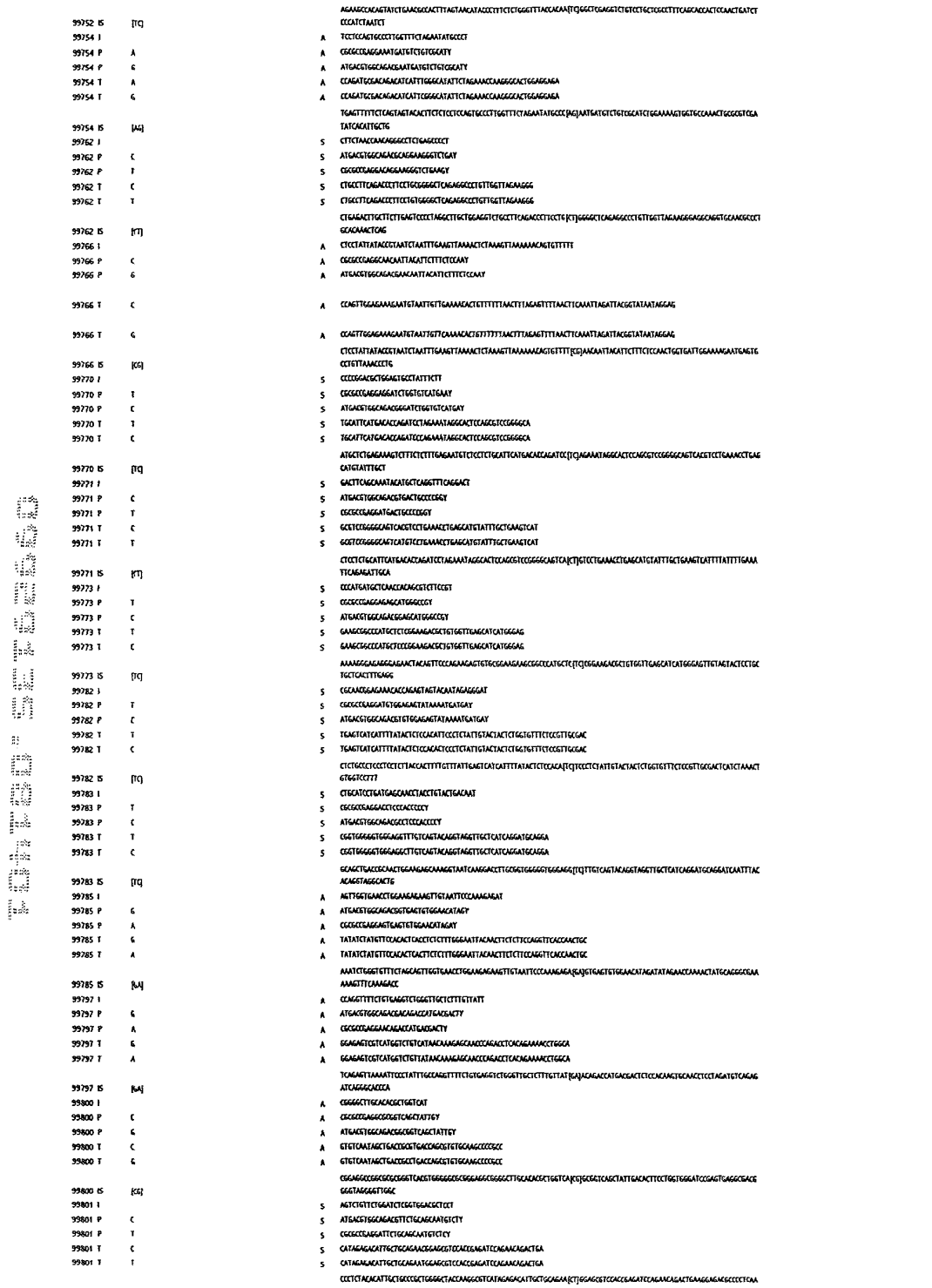


FIGURE 129C


99676 P T S ATGACGTGGCAGACACTTGCTGAGTTGGACAY
99676 T A S CTAATGTCCAACTCAGCAAGACCCAACCCCCACCCCCGCACT
99676 T T S CTAATGTCCAACTCAGCAAGTCCCAACCCCCACCCCCGCACT
ATCCACCAGGATTGAACAAGAGAAGAAGTTTCTAGCCAATGCTAATGTCCAACTCAGCAAGSATCCCAACCCCCACCCCCGCACTATTTCCCAGTGCCTCAAACTTTCCCACT
99676 IS [AT] GAGAGTCCCTGT
99679 I A GGAACGCAGGGAGTCTCCCAATGATTGCTT
99679 P C A CGCGCCGAGGCTGTTGCTTCCCAGGY
99679 P G A ATGACGTGGCAGACGTGTTGCTTCCCAGGY
99679 T C A AGGCCCTGGGAAGCAACAGAGCAATCATTGGGAGACTCCCTCCCGTTCCCC
99679 T G A AGGCCCTGGGAAGCAACAGAGCAATCATTGGGAGACTCCCTCCCGTTCCCC
GGCTTGGGCTGGTATCCCAAGGATGTTGTGGGGAACGGAGGGGAGTCTCCCAATGATGCTSGSTGTTGCTTCCCAGGGCCTGGTGTCAAGCCGGCACCGTCTCATCATGT
99679 IS [CG] GTCAGCTGGCCGT
99680 I S GCTGTTCACAGGCTGGTCTCTCTCACAACCT
99680 P C S ATGACGTGGCAGACGGCAGAGAAATAAGAGGCY
99680 P T S CGCGCCGAGGAGCAGAGAAATAAGAGGCTY
99680 T C S TTTCAGCCTCTTATTTCTCTGCCGGTTGTGAGAGAGAGCAGCCTGTGAACAGCAT
99680 T T S TTTCAGCCTCTTATTTCTCTGCTGTTGTGAGAGAGACCAGCCTGTGAACAGCAT
CAGGCAGAGGAGAGGCTGCTGCTGGCCTATCGACCTGCTTTCAGCCTCTTATTTCTCTGC[CT]GGTTGTGAGAGAGACCAGCCTGTGAACAGCATGAAGAACAATCAAT
99680 IS [CT] GAGGAACCCCGAGT
99728 I S CGTGTGAGAAAATATGGGGTGAAGATCTAAGACATTTAATAGTATCT
99728 P C S ATGACGTGGCAGACGAGAAGTACACAGGCACY
99728 P T S CGCGCCGAGGAAGAAGTACACAGGCACY
99728 T C S AGTGGTGCCTGTGTACTTCTCGATACTATTAAATGTCTTAGATCTTCACCCCATATTTTCTCACACGCA
99728 T T S AGTGGTGCCTGTGTACTTCTTGATACTATTAAATGTCTTAGATCTTCACCCCATATTTTCTCACAGGCA
CACAGTGTCAAGAAGGTTTCCAGAATCAGGTCTCGATTATTACTGGTGCCTGTGTACTTCT[CT]GATACTATTAAATGTCTTAGATCTTCACCCCATATTTTCTCACACGC
99728 IS [CT] ATTATAAATGTCA PBEF
99735 I A GGATCTATTCCGCAAGCCTAGGCGCCA
99735 P T A CGCGCCGAGGTATATTCACTGGGCCCCY
99735 P C A ATGACGTGGCAGACATATTCACTGGGCCCY
99735 T T A AGGTGGGGCCCAGTGAATATAGGCGCGTAGGCTTGCGGAATAGATCCGA
99735 T C A AGGTGGGGCCCAGTGAATATGGGCGCGTAGGCTTGCGGAATAGATCCGA
CTGGAGTCCCTGGTGATCAGCCCCTTCTGCACTCGGATCTATTCCGCAAGCCTACGCGCC[TC]ATATTCACTGGCCCCCACCTGCCTAGCGGCAGGGGTGCAATCCCCGGCAA
99735 IS [TC] GCCCGCAGGGG
99736 I A GGGCCGGCACGGGGCTCT
99736 P G A ATGACGTGGCAGACGCTAGCATCATCGCAGY
99736 P A A CGCGCCGAGGACTAGCATCATCGCAGY
99736 T G A GTGGCTGCGATGATGCTAGCGAGCCCCGTGCCGGCCCCG
99736 T A A GTGGCTGCGATGATGCTAGTGAGCCCCGTGCCGGCCCCG
TTCCGACAGGACCTCTTCCGAGGATGTACAGCGCTGGAGCTCGGGGCCGGCACGGGGCTC[GA]CTAGCATCATCGCAGCCACCATGGCACCGACCGTTTATTGTACAGGT
99736 IS [GA] AATGAGGTGACAT
99738 I S CCCAGTAGGAGAGAAGGACAAGCTTATGATATTTGTTTTGGTTCTTTTAAATTCTT
99738 P C S ATGACGTGGCAGACGCTTTTGACCACTTCTCGCY
99738 P T S CGCGCCGAGGACTTTTGACCACTTCTCGCY
99738 T C S CAAGGCAGAAGTGGTCAAAAGGAGAATTTAAAAGAACCAAACAAATATCATAAGCTTGTCCTCTCTCCTACTGGGAT
99738 T T S CAAGGCAGAAGTGGTCAAAAGTAGAATTTAAAAGAACCAAACAAATATCATAAGCTTGTCCTCTCTCCTACTGGGAT
CAAGGCAAGTTAAGTCTAGACATGCTTCTTTGAAAGTCACAAGGCAGAAGTGGTCAAAAG[CT]ACAATTTAAAAGAACCAAAACAAATATCATAAGCTTGTCCTCTCT
99738 IS [CT] CCTACTGGGATATA
99746 I A GCAATCATCTGATGCTCCACTGAAAGACATGCAATTTGGT
99746 P A A CGCGCCGAGGAAATAAAATTGCTATCCTGAGTGY
99746 P C A ATGACGTGGCAGACCAATAAAATTGCTATCCTGAGTGY
99746 T A A TCTCCACTCAGGATAGCAATTTTATTTCCAAATTGCATGTCTTTCAGTGGACCATCAGATGATTGCAA
99746 T C A TCTCCACTCAGGATAGCAATTTTATTGCCAAATTGCATGTCTTTCAGTGGACCATCAGATGATTGCAA
GATAGTAAATTTAAATGAGTTGCAATCATCTGATGGTCCACTGAAAGACATGCAATTTGG[AC]AATAAAATTGCTATCCTGAGTGGAGACTTTCTTCTAGCAAATGCCT
99746 IS [AC] GCAATGGACTAGCT LOC57107
99747 I S AGTCCTTTGTTGAAGAAGAGTTTCTCATACTGGAAAGAAAAT
99747 P G S ATGACGTGGCAGACCAATAAAAGAAGAAACTTCAAAAACTY
99747 P T S CGCGCCGAGGAAATAAAAGAAAGAAACTTCAAAAACTY
99747 T G S ATGAAGTTTTTGAAGTTTCTTTCTTTTATTGTTTTTCTTTCCAGTATGAGAAAACTCTTCTTCAACAAAGGACTAT
99747 T T S ATGAAGTTTTTGAAGTTTCTTTCTTTTATTTTTTTTCTTTCCAGTATGAGAAAACTCTTCTTCAACAAAGGACTAT
TTCTTTGGCTGGAGTACTTCAGAAAGCAGCATGAAGTTTTTGAAGTTTCTTTCTTTTATTG[GT]TTTTTCTTTCCAGTATGAGAAAACTCTTCTTCAACAAAGGACTATAA
99747 IS [GT] TATTTTCTTTTCT
99748 I S TGGTGCCAAAAGACAAGCAGGTCAGAAAAAATAACTAATACACAAATAATTAGAAAGTAT
99748 P T S CGCGCCGAGGACTTACAGTTGTAAATGCTGCY
99748 P C S ATGACGTGGCAGACGCTTACAGTTGTAAATGCTGY
99748 T T S TCTAGCAGCATTTACAACTGTAAGTTACTTTCTAATTATTTGTGTATTAGTTATTTTTTCTGACCTGCTTGTCTTTTGGCACCAT
99748 T C S TCTAGCAGCATTTACAACTGTAAGCTACTTTCTAATTATTTGTGTATTAGTTATTTTTTCTGACCTGCTTGTCTTTTGGCACCAT
GTTTAAGTGTTAAAAAGAAGTTAATGTCTAGTATTTTCTAGCAGCATTTACAACTGTAAG[TC]TACTTTCTAATTATTTGTGTATTAGTTATTTTTTCTGACCTGCTTGT
99748 IS [TC] CTTTTGGCACCAT
99749 I A CAGGATAGCAGAGAGGCCAATGAGTCCCA
99749 P C A ATGACGTGGCAGACGAATAGAAGGAGAGGGCY
99749 P T A CGCGCCGAGGTGAATAGAAGGAGAGGGCY
99749 T C A GAACGCCTCTCCTTCTATTCGGGGACTCATTGGGCCTCTCTGCTATCCTGGC
99749 T T A GAACGCCTCTCCTTCTATTCAGGGACTCATTGGGCCTCTCTGCTATCCTGGC
ACATAGCTGCTCTGGAGAGTCCATCTGTGGCCAGGATAGCAGAGAGGCCCAATGAGTCCC[CT]GAATAGAAGGAGAGGCGTTCTCTGCACACAAAGTTCCTAGCCTTGA
99749 IS [CT] CATAGCCATAAGA
99750 I S CTCTATCAGGCAGAATGACTTAGAGAAATTTCTCAAACCTGAGTTAGGAAAAAATJ
99750 P T S CGCGCCGAGGACATAGTGGACTCCTAAGTCY
99750 P C S ATGACGTGGCAGACGCATAGTGGACTCCTAAGTY
99750 T T S AAGGGACTTAGGAGTCCACTATGTATTTTTCCTAACTCAGGTTTGAGAAATTTCTCTAAGTCATTCTGCCTGATAGAGTA
99750 T C S AAGGGACTTAGGAGTCCACTATGCATTTTTCCTAACTCAGGTTTGAGAAATTTCTCTAAGTCATTCTGCCTGATAGAGTA
TCAATGTAATGGTTCACTTAATTTATGAGCAGATGTTAAGGGACTTAGGAGTCCACTATG[TC]ATTTTTTCCTAACTCAGGTTTGAGAAATTTCTCTAAGTCATTCTGCC
99750 IS [TC] TGATAGAGTAGAT
99752 I S GGCCAGCAGGACAGACCTCGAGCCT
99752 P T S CGCGCCGAGGATTGTGGTAAACCGAGAGAT
99752 P C S ATGACGTGGCAGACGTTGTGGTAAACCCAGAGT
99752 T T S CCTTTCTCTGGGTTTACCACAATGGCTCGAGGTCTGTCCTGCTGCCTT
99752 T C S CCTTTCTCTGGGTTTACCACAACGGCTCGAGGTCTGTCCTGCTGCCTT


AGAAGCCACAGTATCTGAACGCCACTTTAGTAACATACCCTTTCTCTGGGTTTACCACAAT[T/C]GGGCTGAAGGTCTGTCCTGCTCGCCTTTCAGCACCACTCCAACTGATCT
CCCATCTAATCT
TCCTCCAGTGCCCTTGGTTTCTAGAATATGCCCT
CGGGCCGAAGGAAATGATGTCTGTGCCATY
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TATCACATTGCTG
CTTCTAACCAACAGGGCCTCTGAGCCCCT
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CGCGCCGAGGACAGGAAGGGTCTGAAGY
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TGCTCACTTTGAGG
CGCAACGGAGAAACACCAGAGTAGTACAATAGAGGGAT
CGCGCCGAGGATGTGGAGAGTATAAAATGATGAY
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ACAGGTAGGCACTG
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ATCAGGGCACCCA
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CGCGCCGAGGCGCGCTGCTCAGCTATTGY
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ATGACGTGGCAGACGTTCTGCAGCAATGTCTY
CGCGCCGAGGATTCTGCAGCAATGTCTCY
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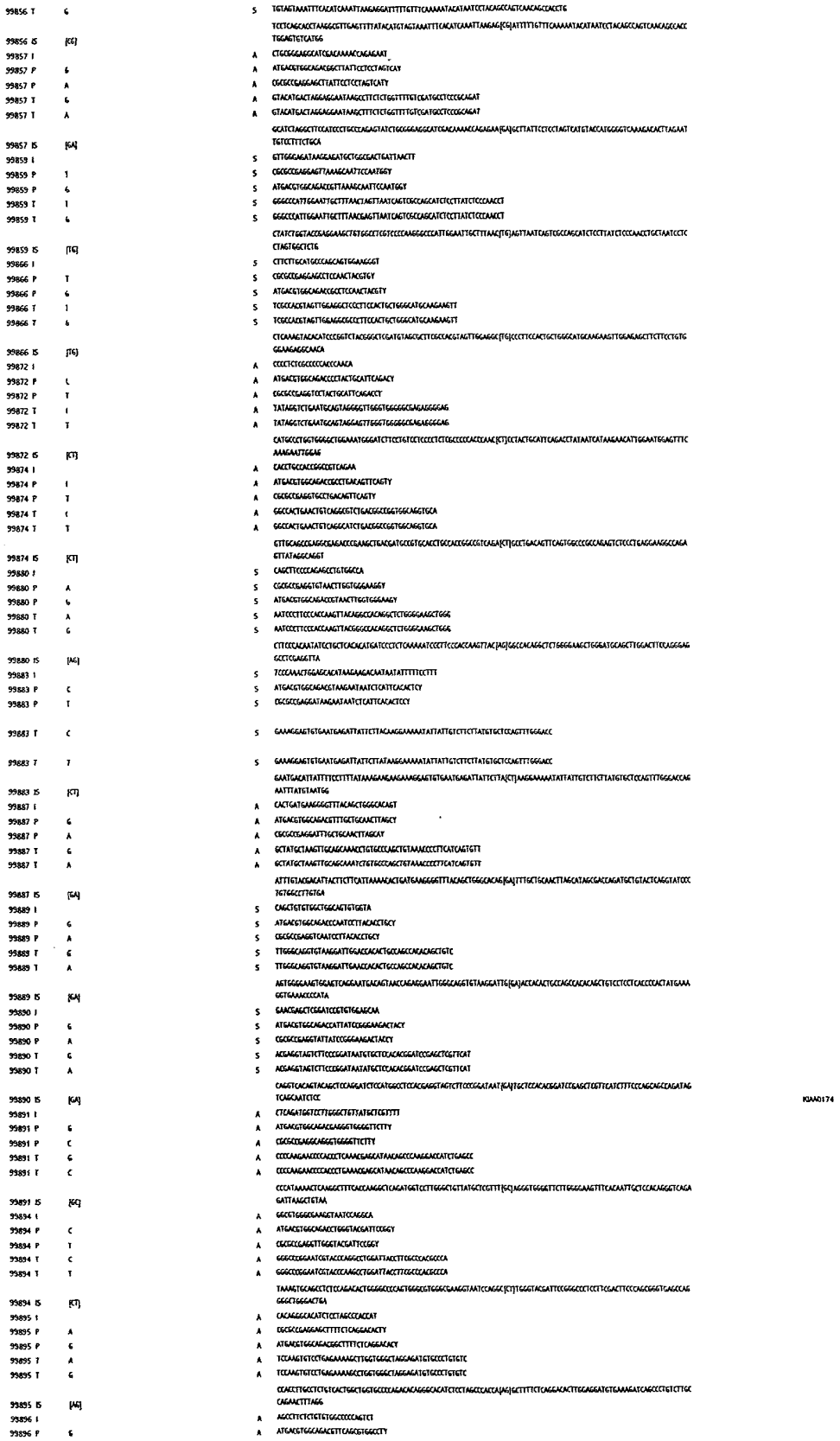


FIGURE 129C

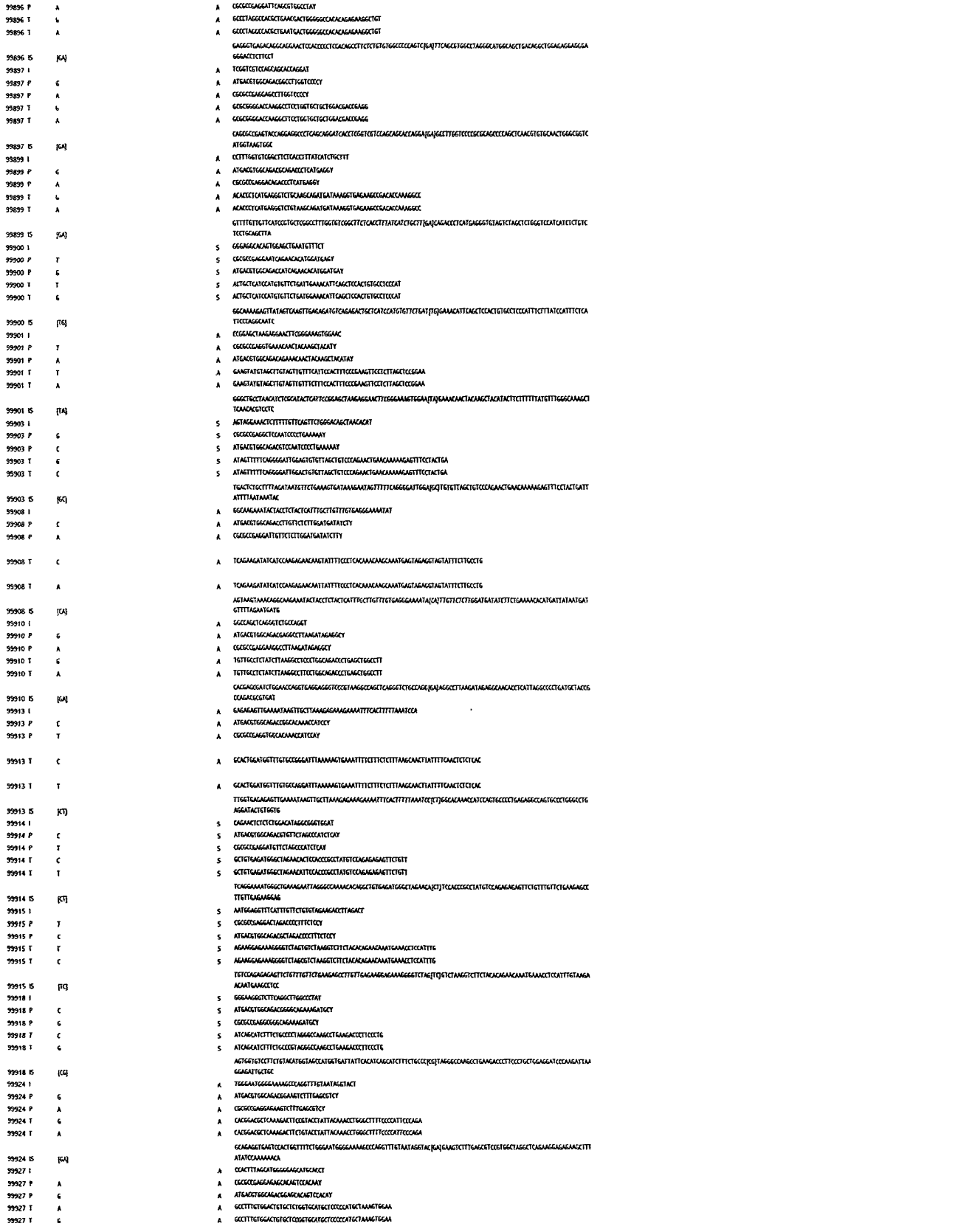
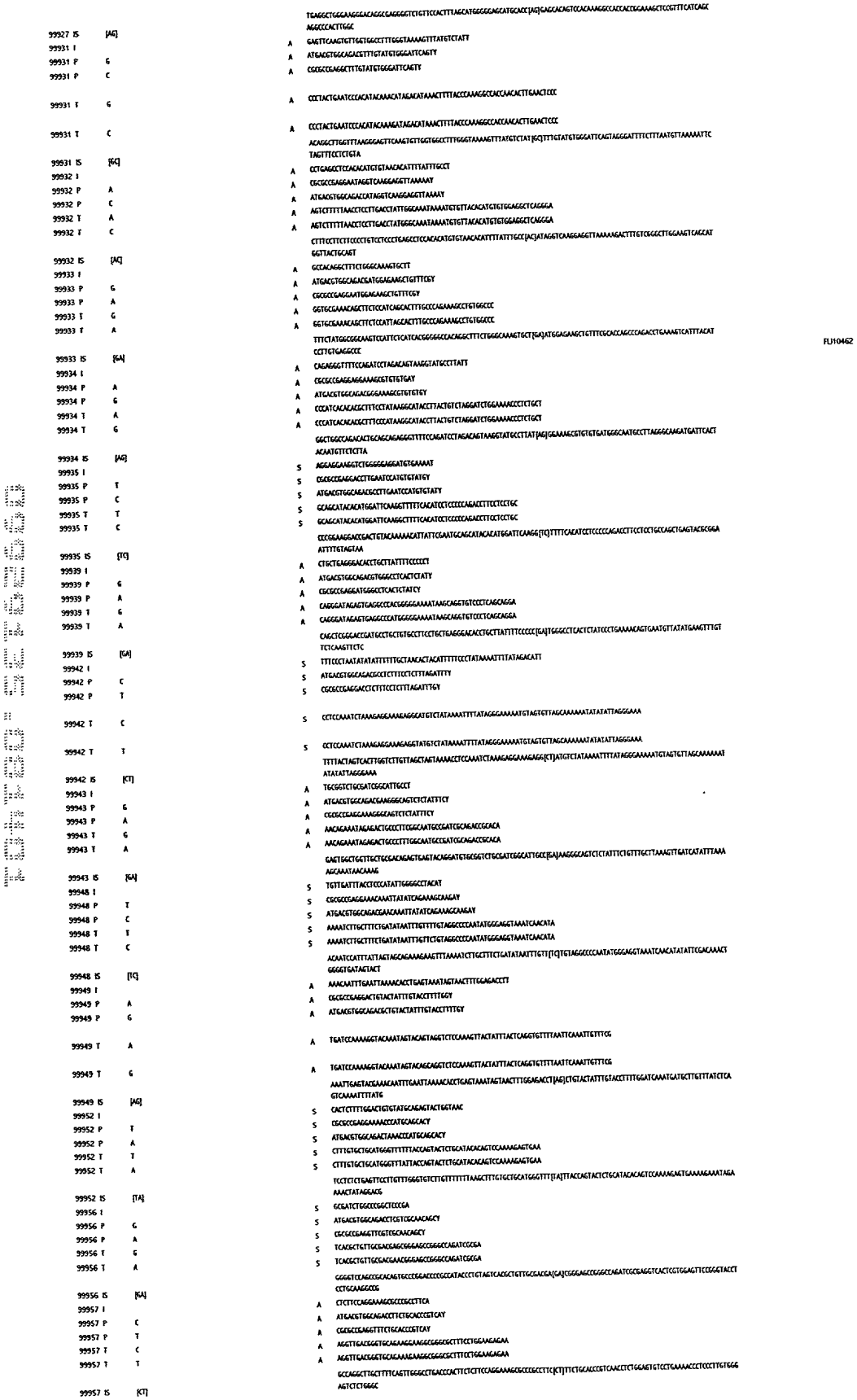


FIGURE 129C





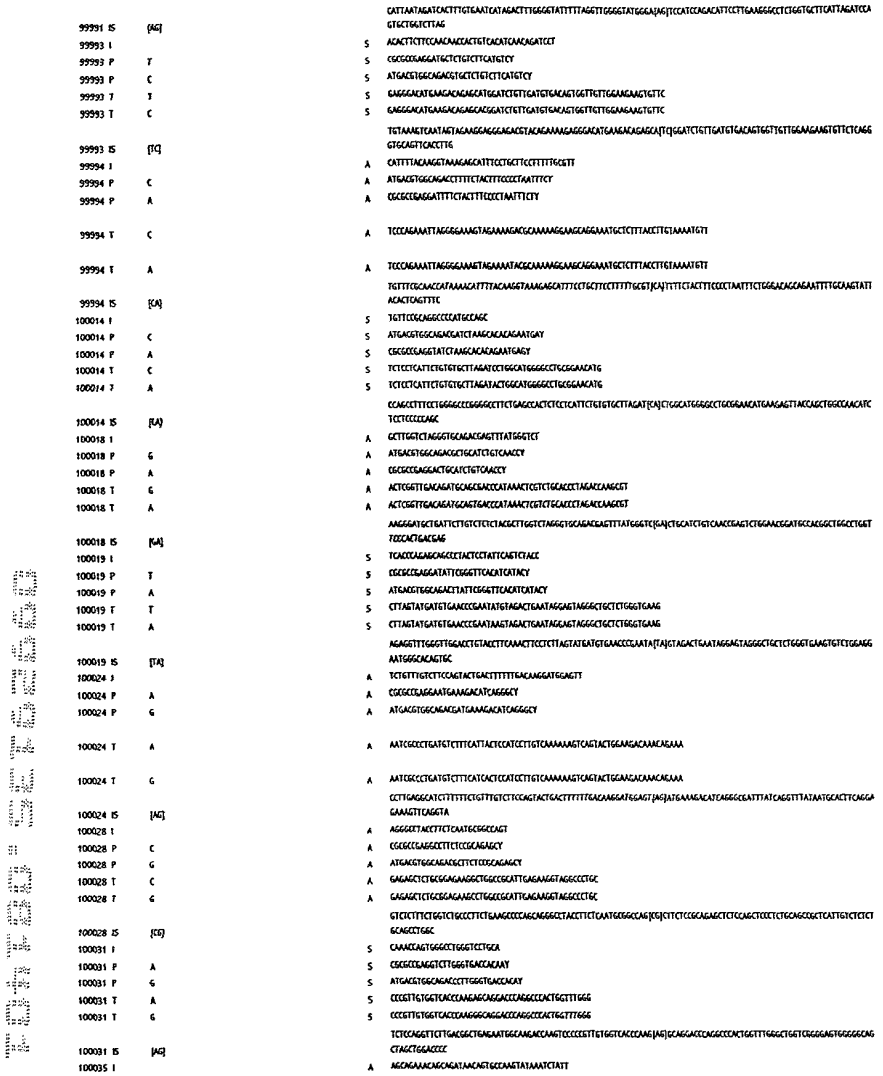


FIGURE 129C

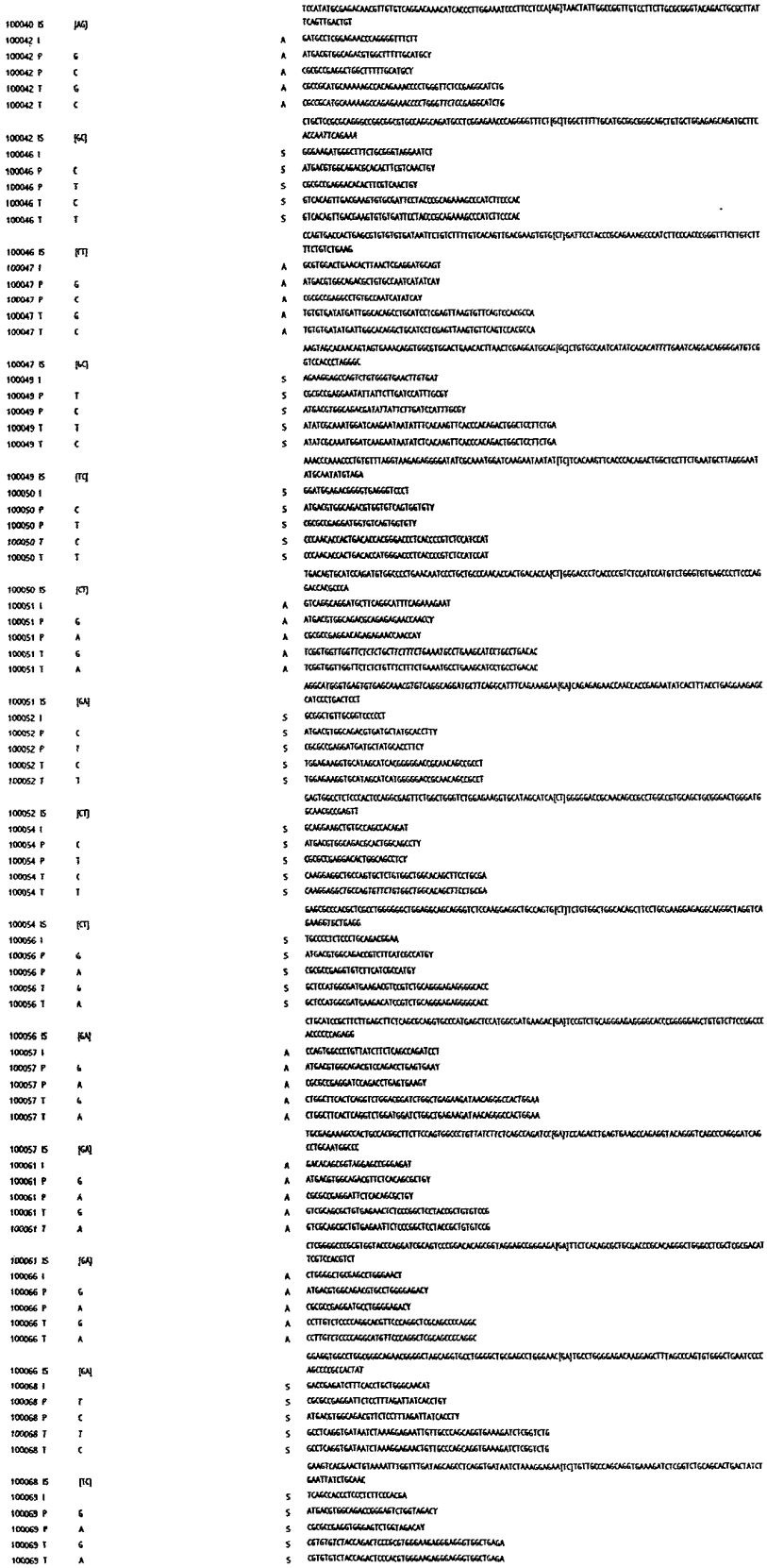
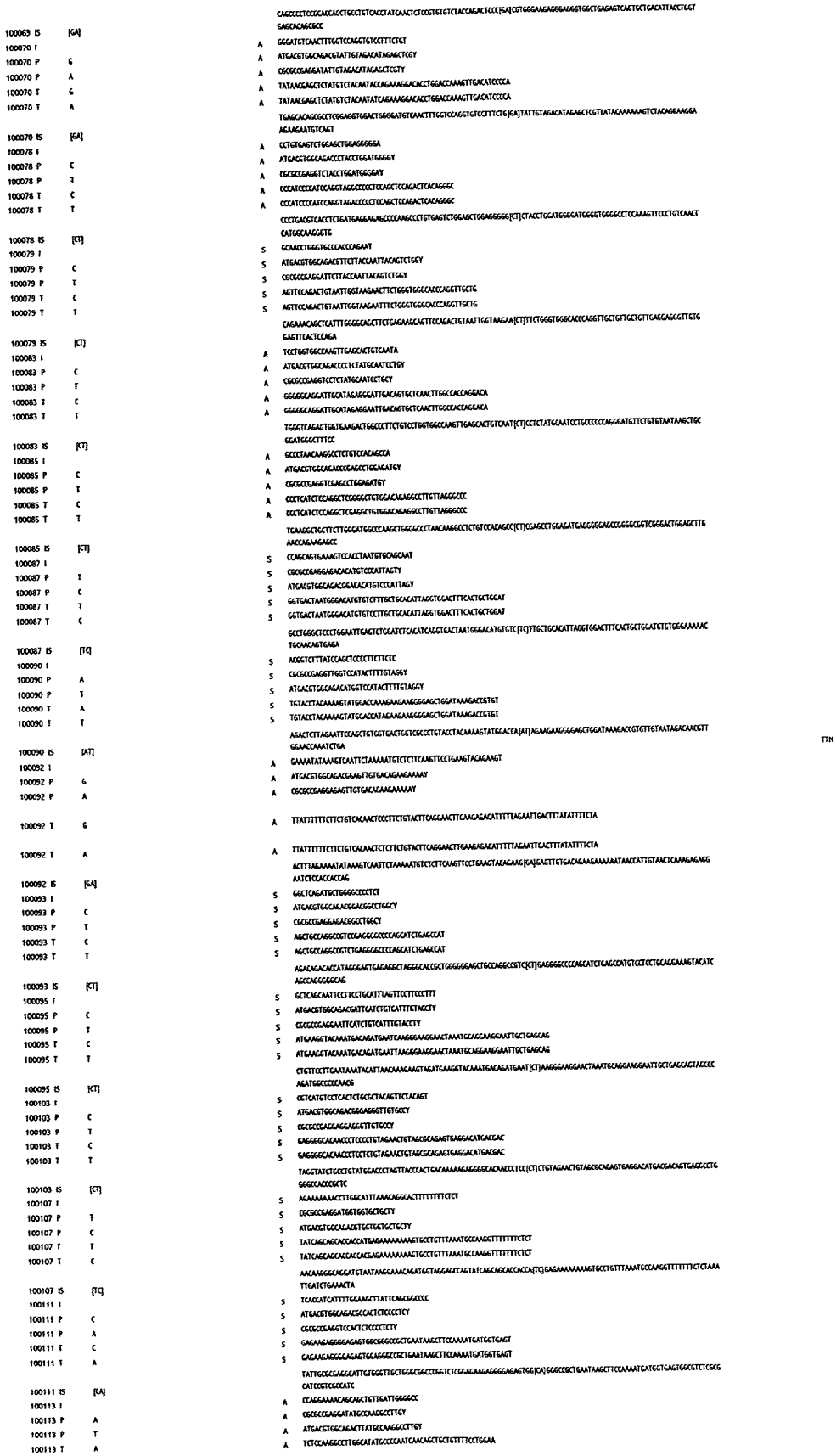


FIGURE 129C



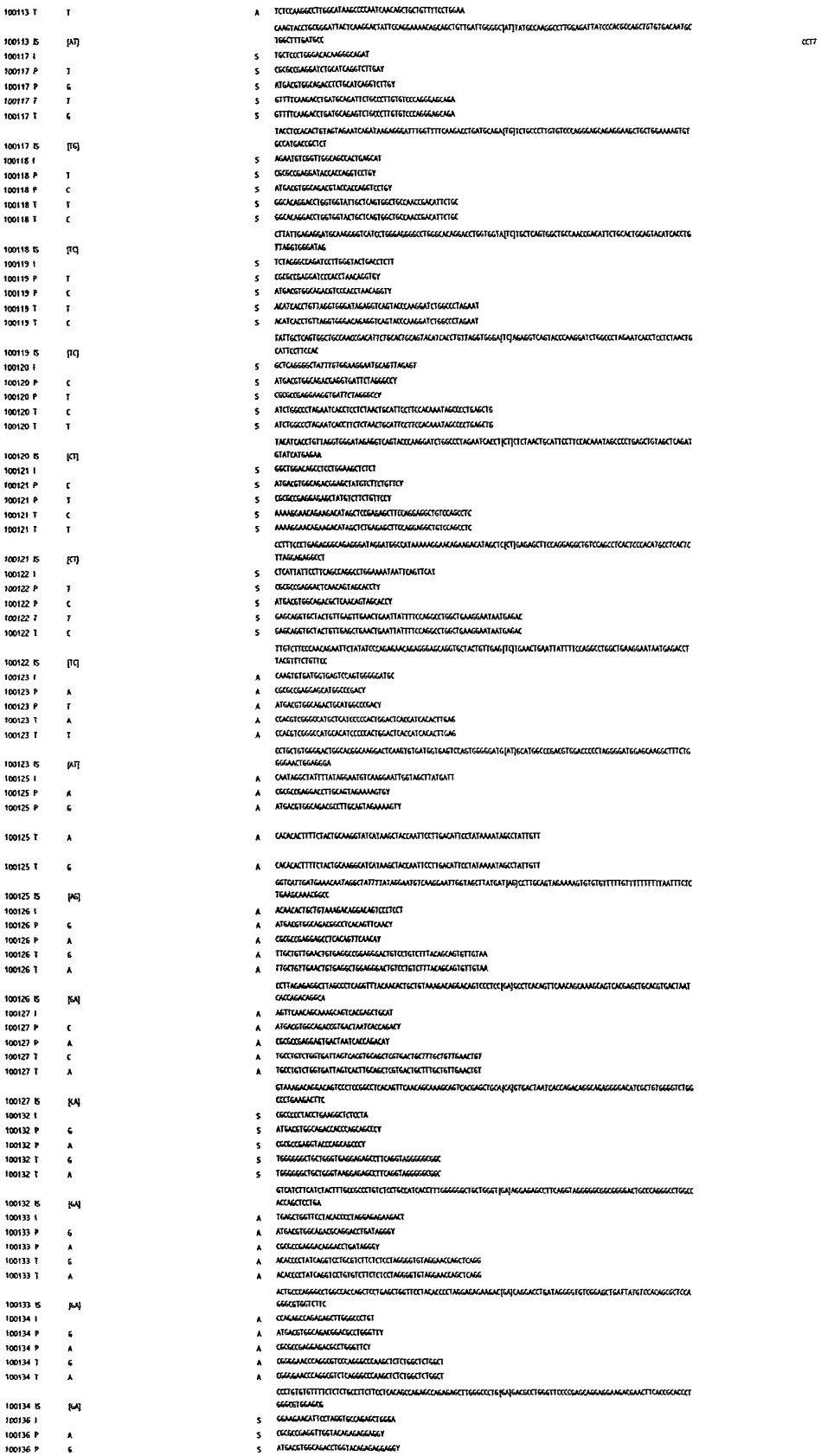


FIGURE 129C

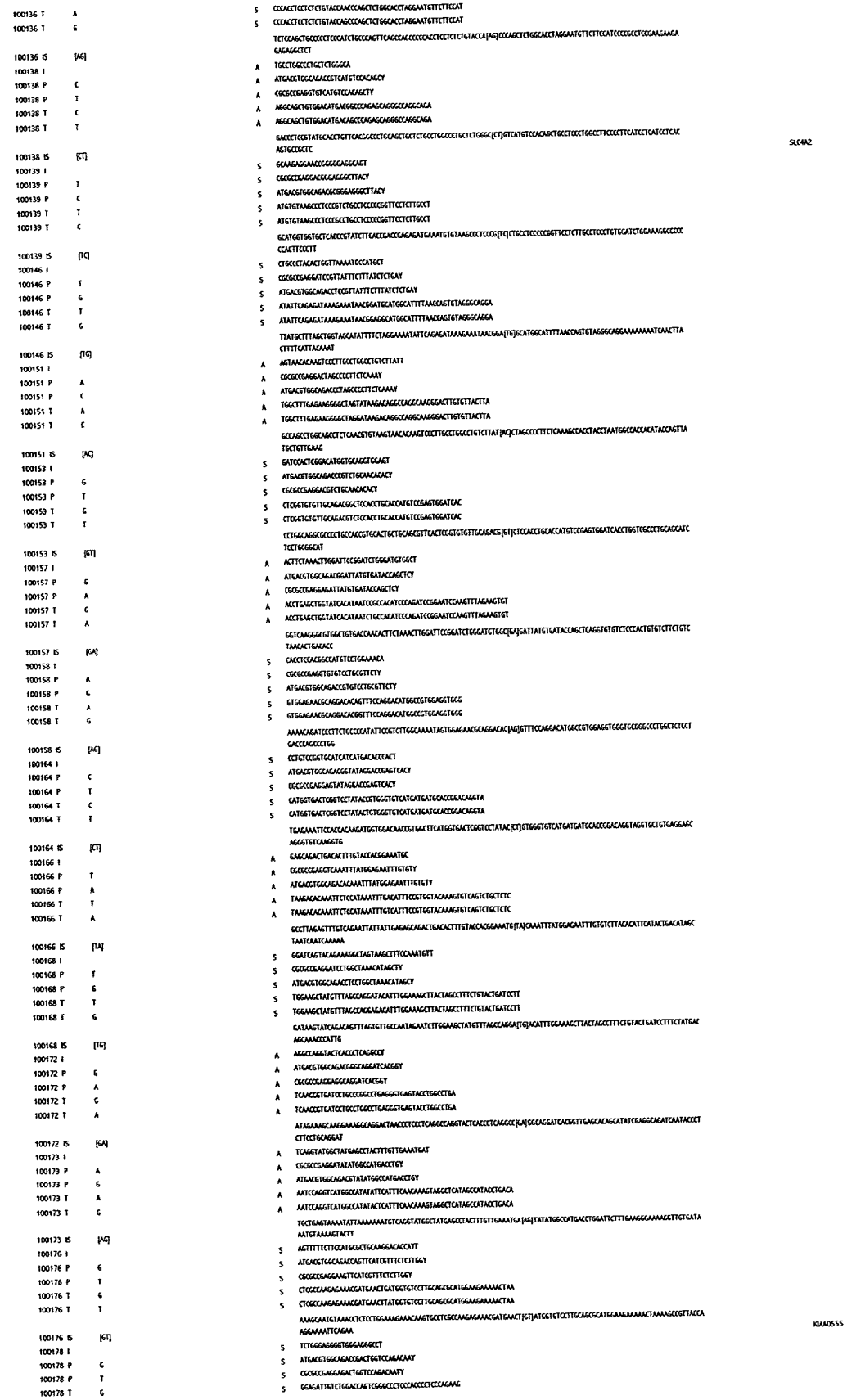


FIGURE 129C

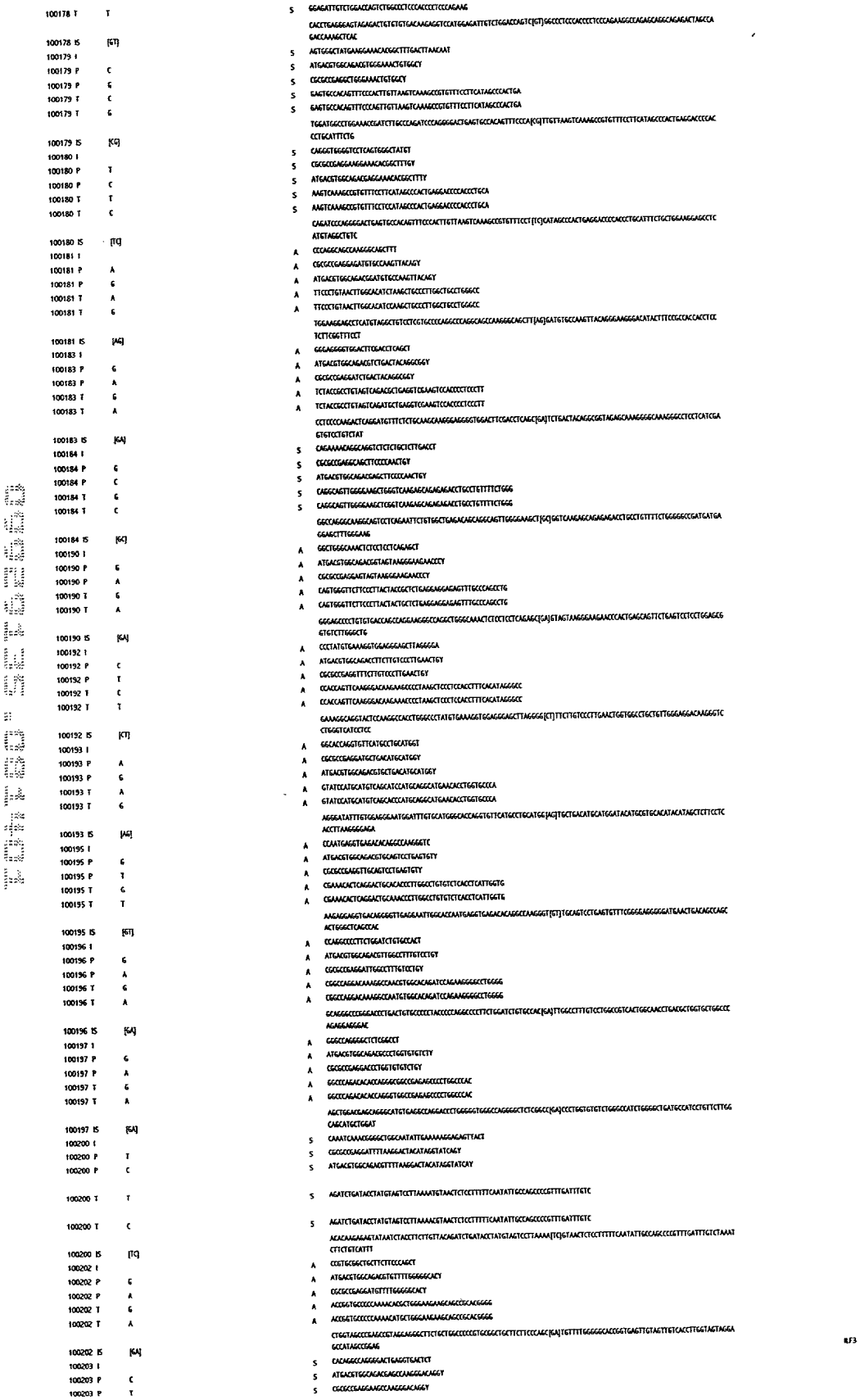
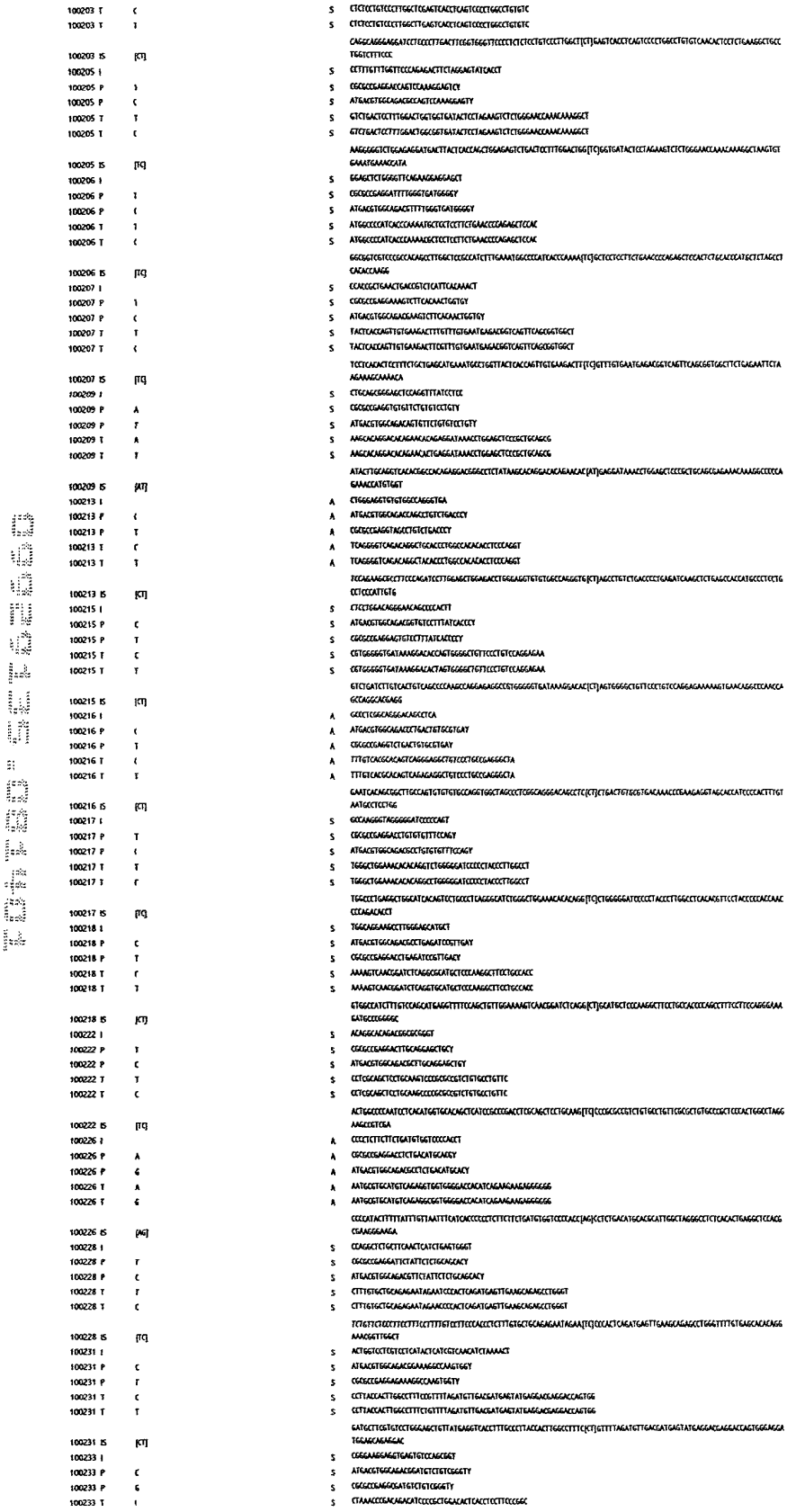


FIGURE 129C



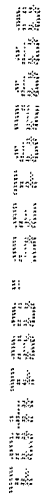
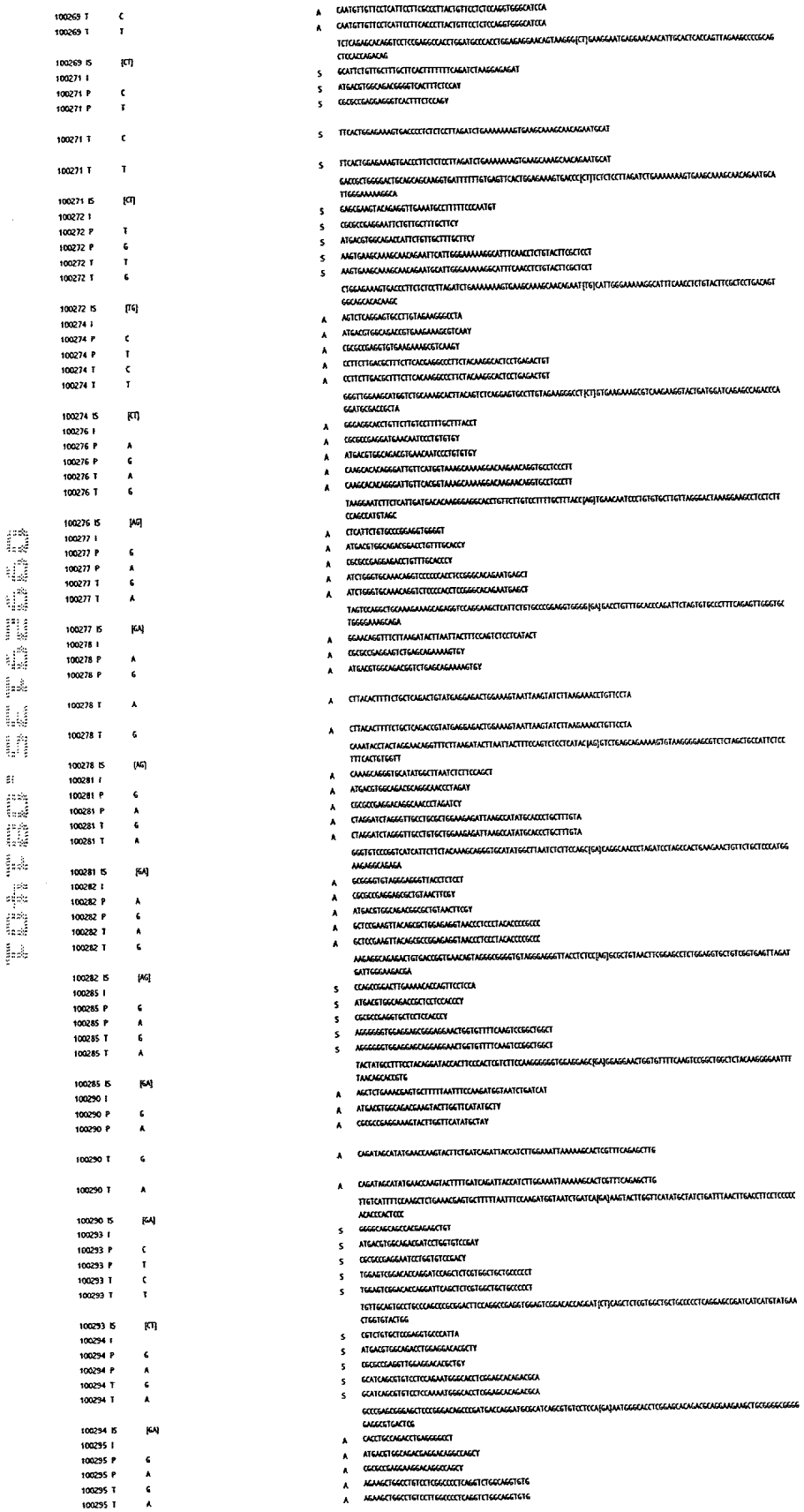


FIGURE 129C



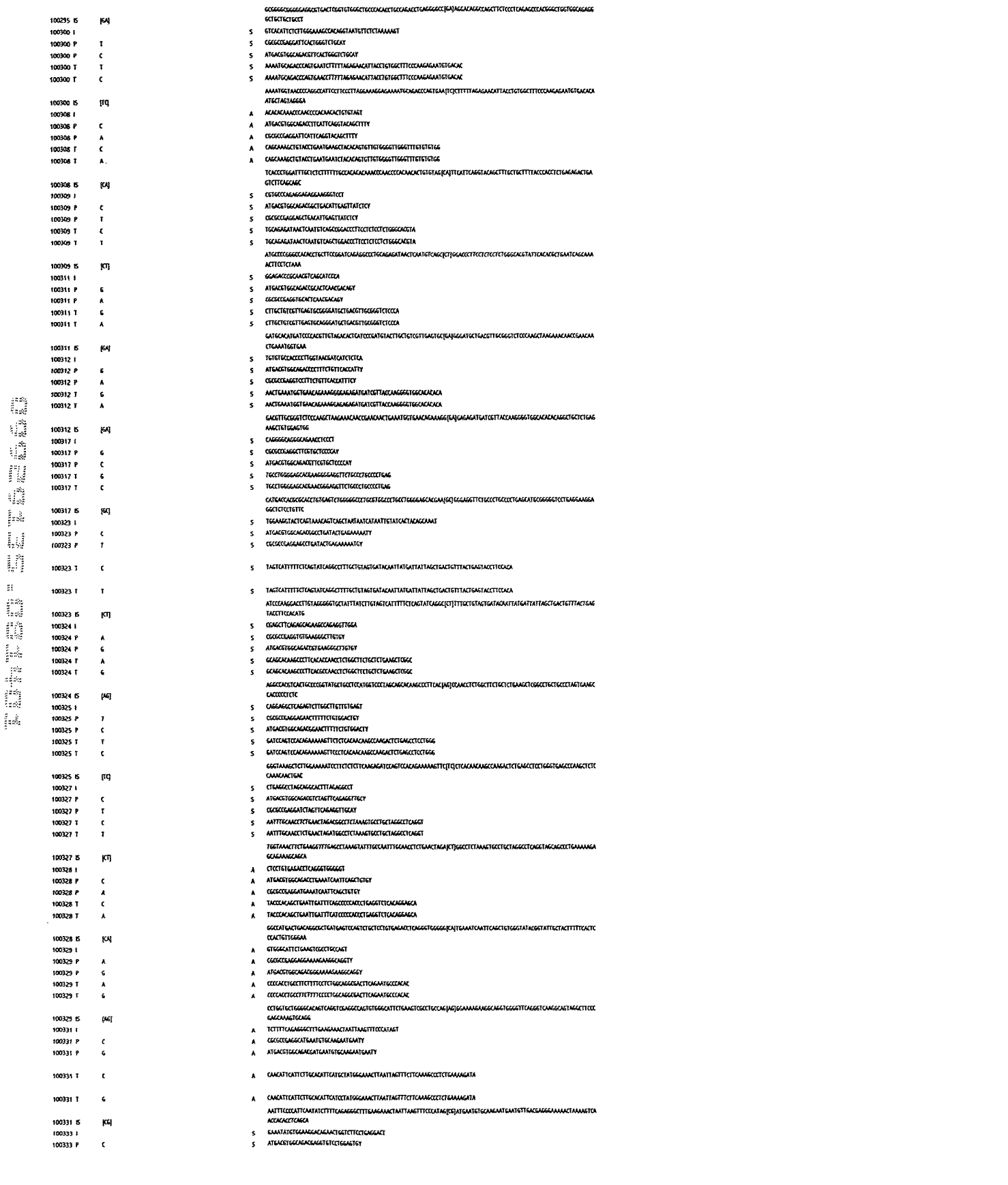




FIGURE 129C

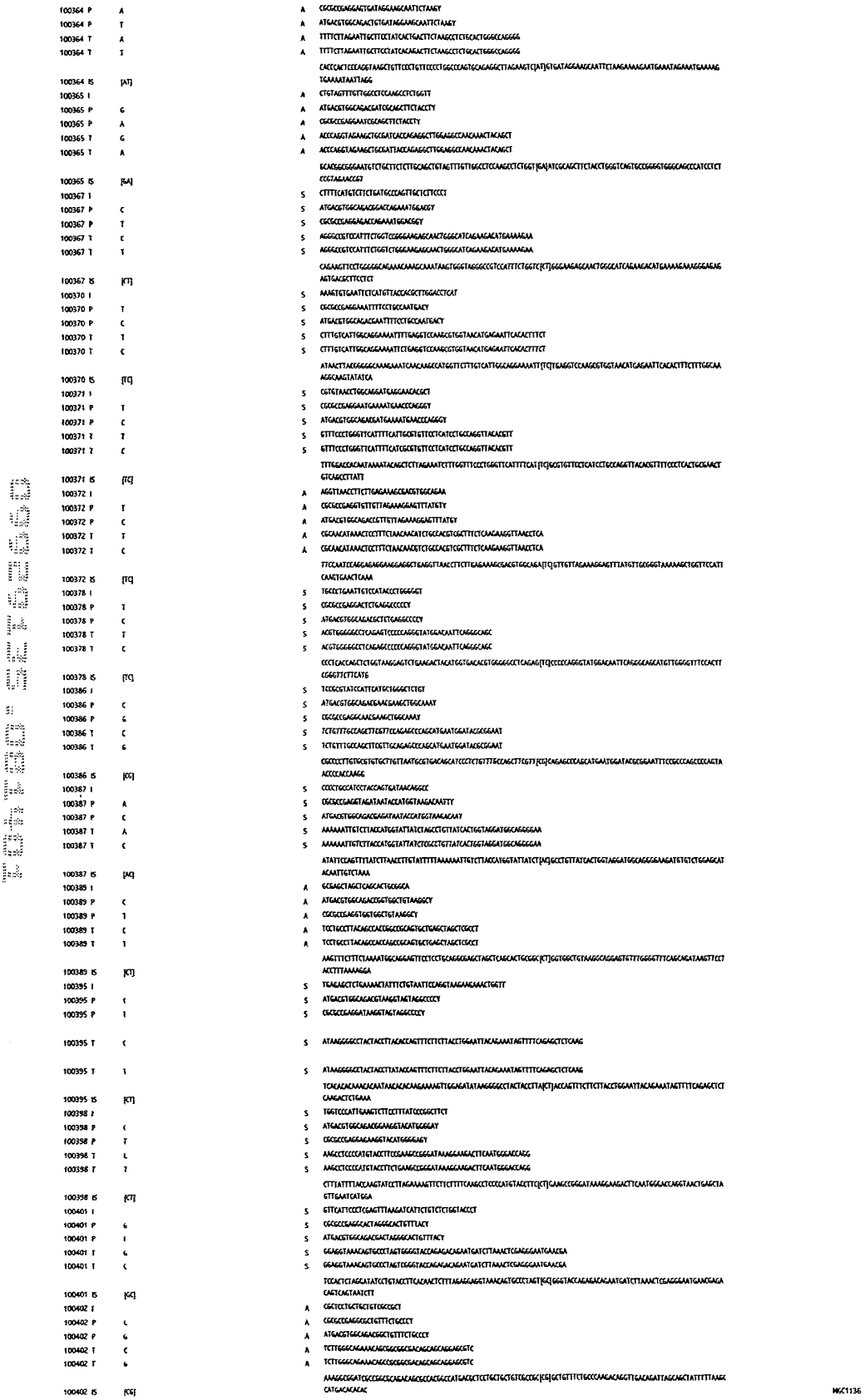
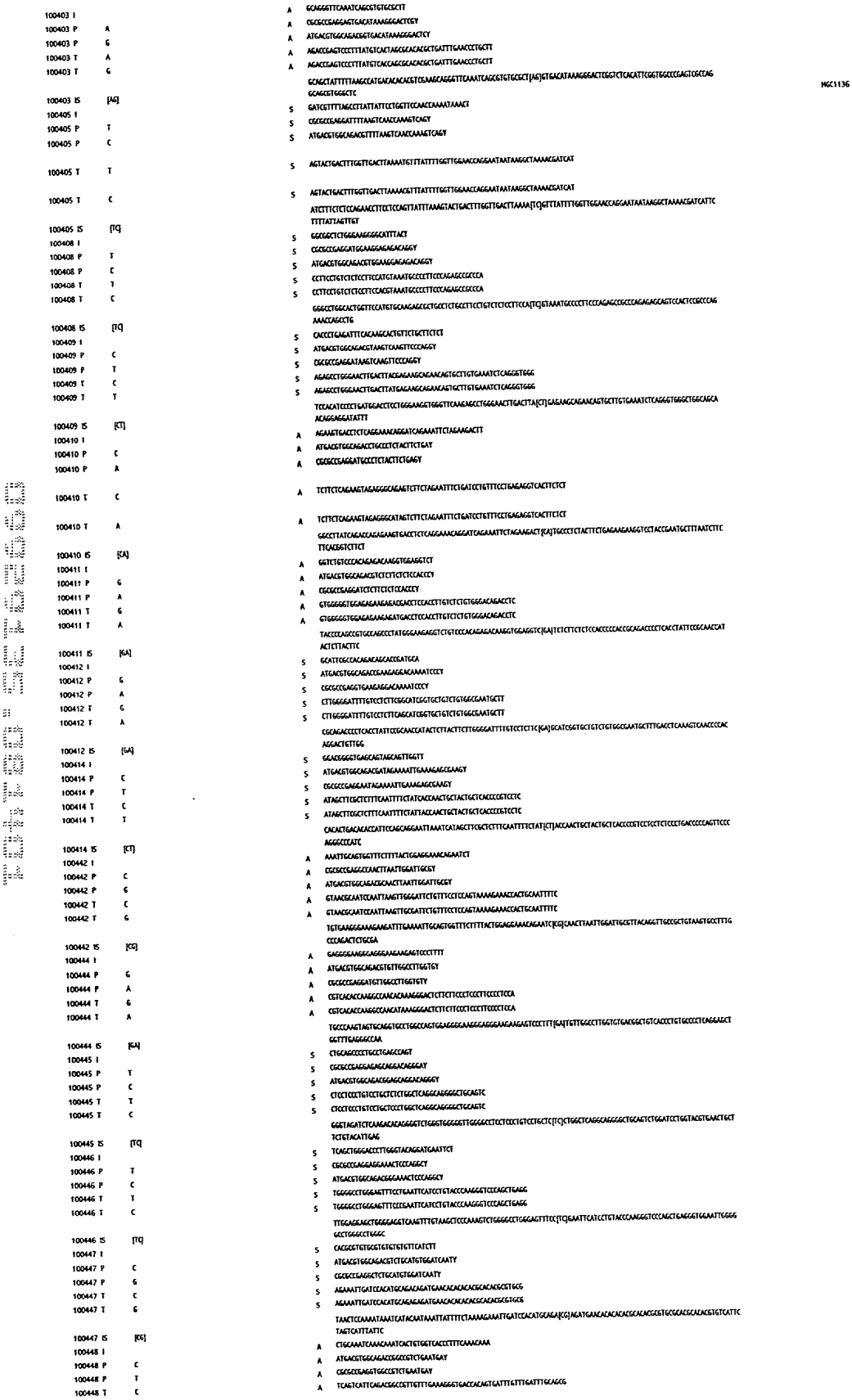


FIGURE 129C



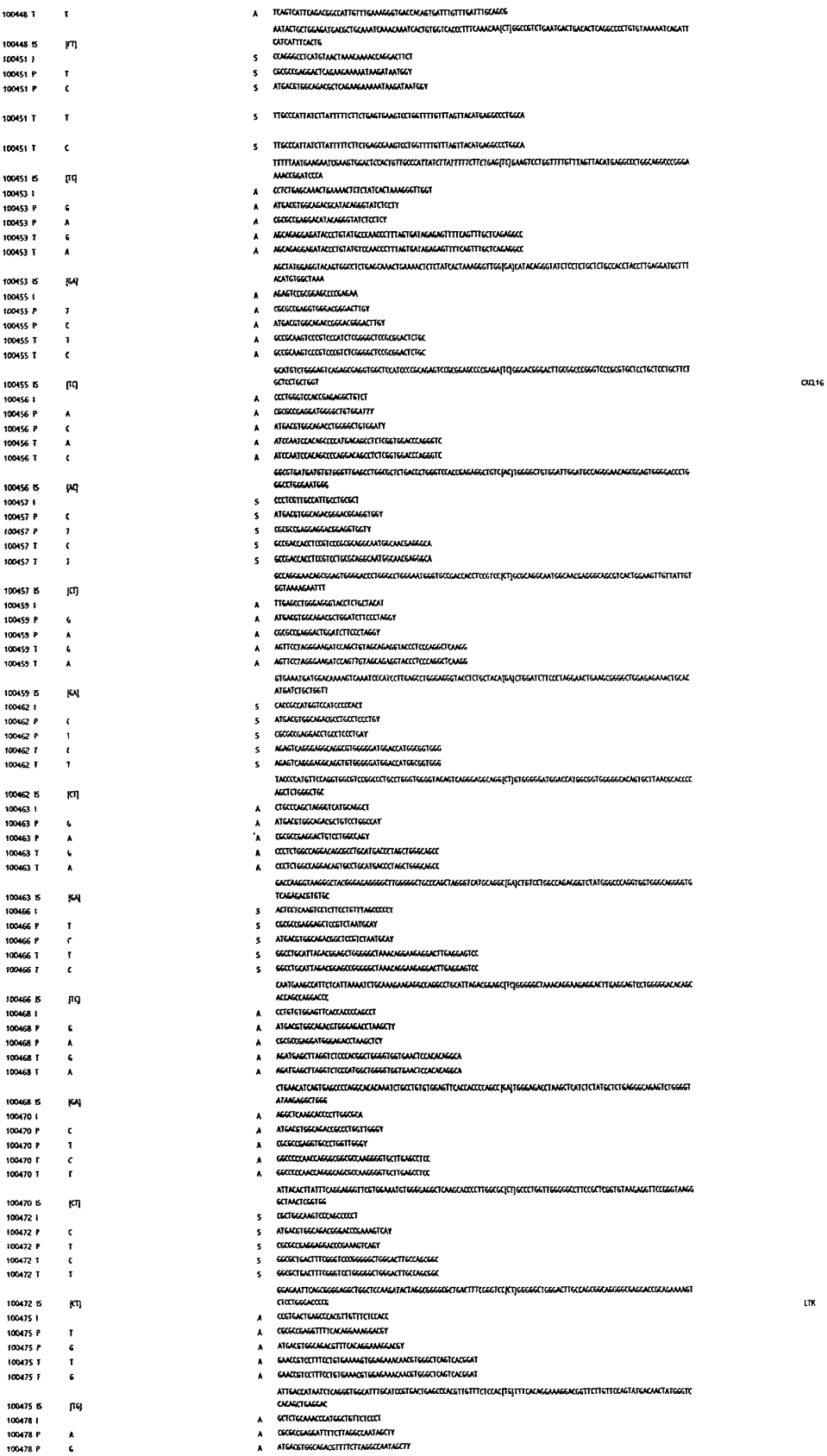




FIGURE 129C

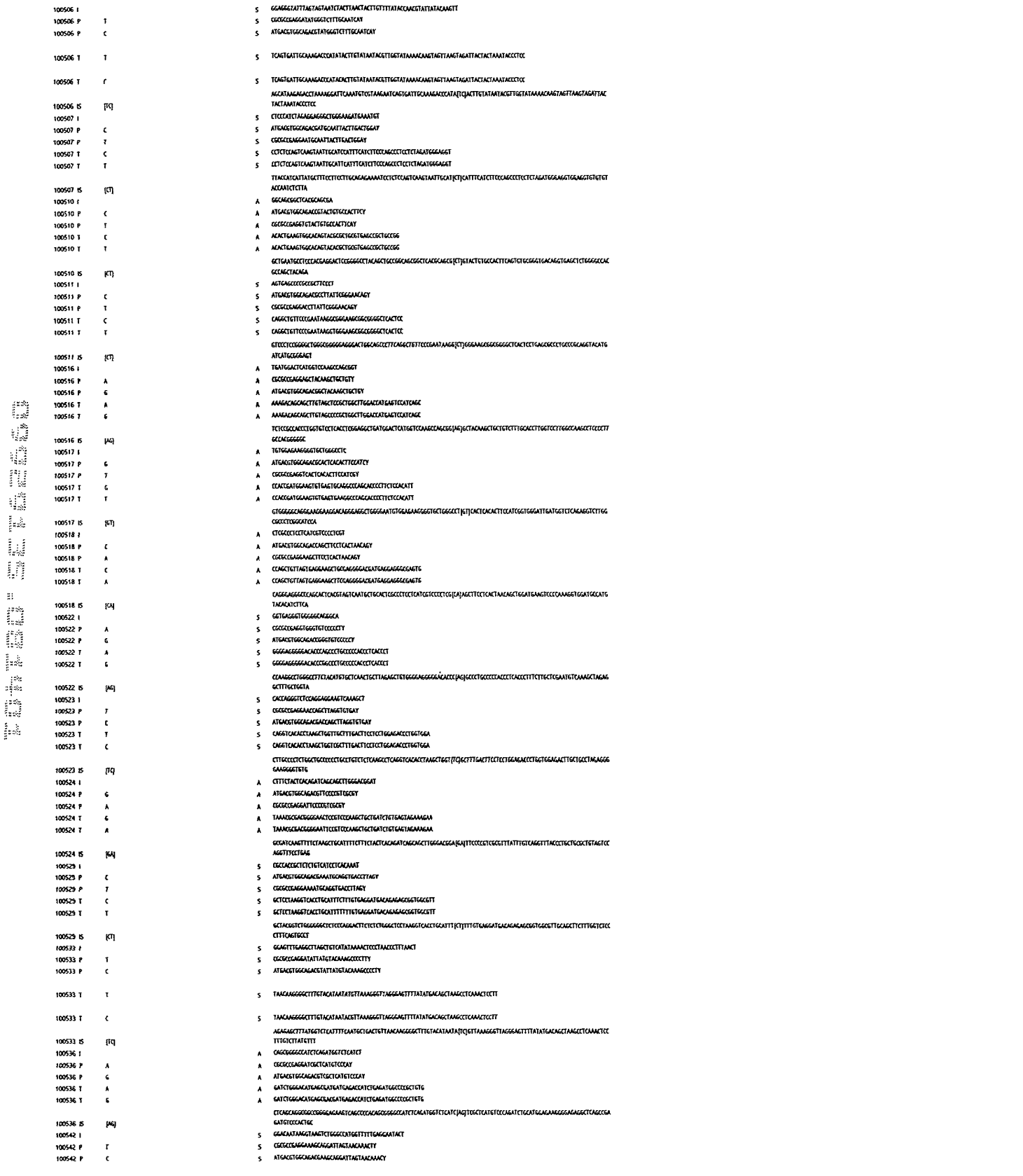
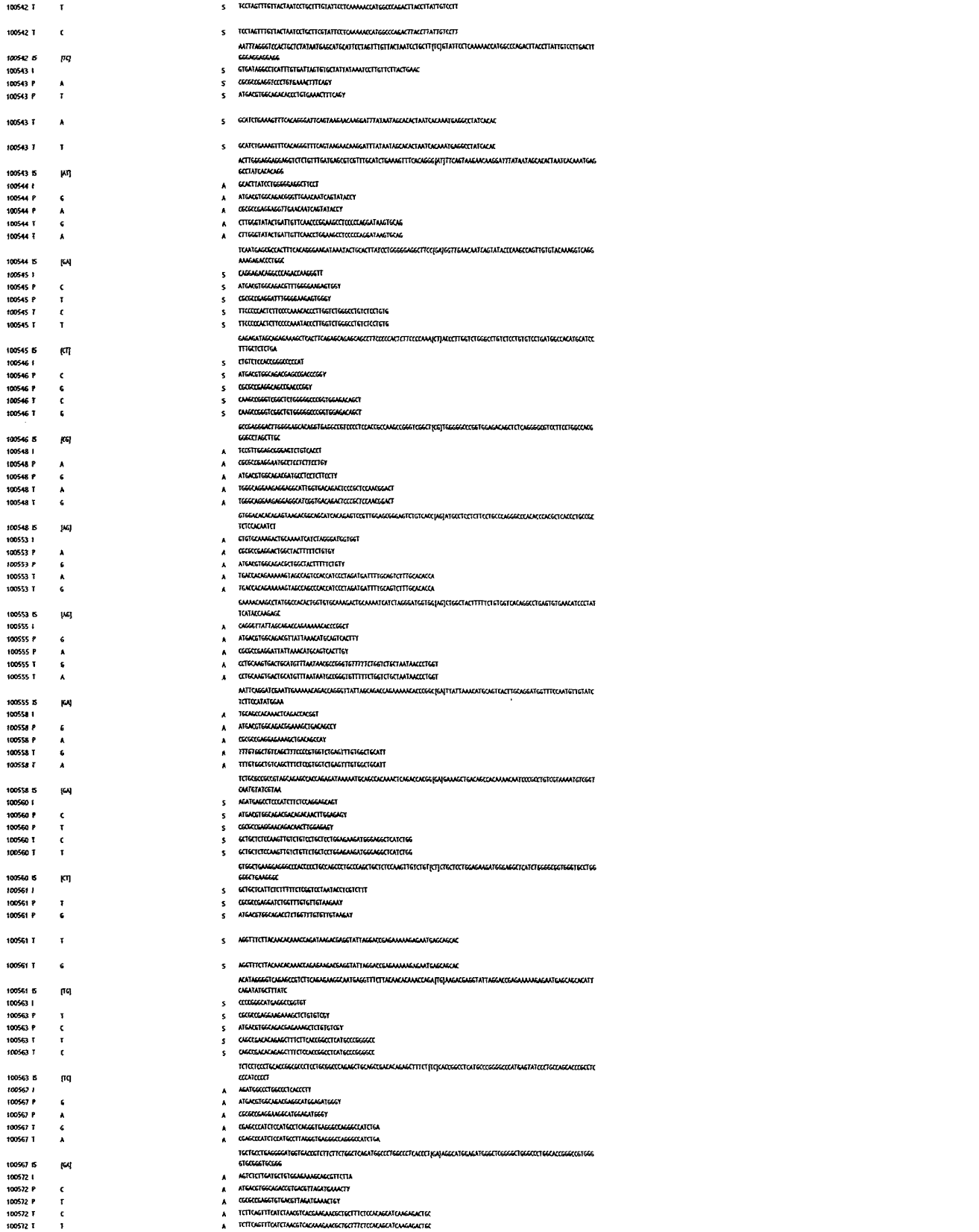
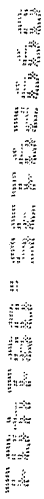


FIGURE 129C


100542 T T S TCCTAGTTTGTTACTAATCCTGCTTTGTATTCCTCAAAACCATGGCCCAGACTTACCTTATTGTCCTT
100542 T C S TCCTAGTTTGTTACTAATCCTGCTTCGTATTCCTCAAAACCATGGCCCAGACTTACCTTATTGTCCTT
100542 IS [TC] AATTTAGGGTCCACTGCTCTATAATGAGCATGCATTCCTAGTTTGTTACTAATCCTGCTT[TC]GTATTCCTCAAAACCATGGCCCAGACTTACCTTATTGTCCTTGACTT GGCAGCAGGAGC
100543 I S GTGATAGGCCTCATTTGTGATTAGTGTGCTATTATAAATCCTTGTTCTTACTGAAC
100543 P A S CGCGCCGAGGTCCCTGTGAAACTTTCAGY
100543 P T S ATGACGTGGCAGACACCTGTGAAACTTTCAGY
100543 T A S GCATCTGAAAGTTTCACAGGGGATTCAGTAAGAACAAGGATTTATAATAGCACACTAATCACAAATGAGGCCTATCACAC
100543 T T S GCATCTGAAAGTTTCACAGGGTTTCAGTAAGAACAAGGATTTATAATAGCACACTAATCACAAATGAGGCCTATCACAC
100543 IS [AT] ACTTGGGAGGAGGAGGTCTCTGTTTGATGAGCGTCGTTTGCATCTGAAAGTTTCACAGGG[AT]TTCAGTAAGAACAAGGATTTATAATAGCACACTAATCACAAATGAG GCCTATCACACAGG
100544 I A GCACTTATCCTGGGGGAAGCCTCCT
100544 P G A ATGACGTGGCAGACGGGTTGAACAATCAGTATACCY
100544 P A A CGCGCCGAGGAGGTTGAACAATCAGTATACCY
100544 T G A CTTGGGTATACTGATTGTTCAACCCGGAAGCCTCCCCAGGATAAGTGCAG
100544 T A A CTTGGGTATACTGATTGTTCAACCTGGAAGCCTCCCCAGGATAAGTGCAG
100544 IS [GA] TCAATGAGCGCCACTTTCACAGGGAAGATAAATACTGCACTTATCCTGGGGGAGGCCTCC[GA]GGTTGAACAATCAGTATACCCAAGCCAGTTGTGTACAAAGGTCAGG AAAGACACCCTGGC
100545 I S CAGGAGACAGGCCCAGACCAAGGGTT
100545 P C S ATGACGTGGCAGACGAGCCGACCCGGY
100545 P T S CGCGCCGAGGAGTTGGGGAAGAGTGGGY
100545 T C S TTCCCCACTCTTCCCCAAACACCCTTGGTCTGGGCCTGTCTCCTGTG
100545 T T S TTCCCCACTCTTCCCCAAATACCCTTGGTCTGGGCCTGTCTCCTGTG
100545 IS [CT] CAGACATAGCAGCAGAAAGCTCACTTCAGAGCAGAGCAGCCTTCCCCCACTCTTCCCCAAA[CT]ACCCTTGGTCTGGGCCTGTCTCCTGTGTCCTGATGGCCACATGCATCC TTTGCTCTCTGA
100546 I S CTGTCTCCACCGGGCCCCAT
100546 P C S ATGACGTGGCAGACGAGCCGACCCGGY
100546 P G S CGCGCCGAGGAGCAGCCGACCCGGY
100546 T C S CAAGCCGGGTCGGCTCTGGGGGCCCGGTGGAGACAGCT
100546 T G S CAAGCCGGGTCGGCTGTGGGGGCCCGGTGGAGACAGCT
100546 IS [CG] GCCGAGGGACTTGGGGAGCACAGGTGAGCCCGTCCCCTCCACCGCCAAGCCGGGTCGGCT[CG]TGGGGGCCCGGTGGAGACAGCTCTCAGGGGGTCCTTCCTGGCCACG GGGCCTAGCTTGC
100548 I A TCCGTTGGAGCCGGAGTCTGTCACCT
100548 P A A CGCGCCGAGGAATGCCTCCTCTTCCTGY
100548 P G A ATGACGTGGCAGACGATGCCTCCTCTTCCTY
100548 T A A TGGGCAGGAAGAGGAGGCATTGGTGACAGACTCCCGCTCCAACGGACT
100548 T G A TGGGCAGGAAGAGGAGGCATCGGTGACAGACTCCCGCTCCAACGGACT
100548 IS [AG] GTGGACACACAGAGTAAGACGGCAGCATCACAGAGTCCGTTGGAGCGGGAGTCTGTCACC[AG]ATGCCTCCTCTTCCTGCCCAGGGCCCACACCCAGCGCTCACCCTGCCGC TCTCCACATCT
100553 I A GTGTGCAAAGACTGCAAAATCATCTAGGGATGGTGGT
100553 P A A CGCGCCGAGGACTGGCTACTTTTCTGTGY
100553 P G A ATGACGTGGCAGACGCTGGCTACTTTTTCTGTY
100553 T A A TGACACAGAAAAAGTAGCCAGTCCACCATCCCTAGATGATTTGCAGTCTTTGCACACCA
100553 T G A TGACACAGAAAAAGTAGCCAGCCCACCATCCCTAGATGATTTGCAGTCTTTGCACACCA
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100555 I A CAGGGTTATTAGCAGACCAGAAAAACACCCGGCT
100555 P G A ATGACGTGGCAGACGTTATTAAACATGCAGTCACTTY
100555 P A A CGGCCGAGGATTATTAAACATGCAGTCACTTGY
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100555 T A A CCTGCAAGTGACTGCATGTTAATAATGCCGGGTGTTTTTCTGGTCTGCTAATAACCCTGGT
100555 IS [GA] AATTCAGGATCGAATTGAAAACAGACCAGGGTTATTAGCAGACCAGAAAAACACCGGC[GA]TTATTAAACATGCAGTCACTTGCAGGATGGTTTCCAATGTTGTATC TCTTCCATATGGAA
100558 I A TGCAGCCACAAACTCAGACCACGGT
100558 P G A ATGACGTGGCAGACGAAAGCTGACAGCCY
100558 P A A CGCGCCGAGGAGAAAGCTGACAGCCAY
100558 T G R TTTGTGGCTGTCAGCTTTCCCCTGGTCTGAGTTTGTGGCTGCATT
100558 T A A TTTGTGGCTGTCAGCTTTCTCCTGGTCTGAGTTTGTGGCTGCATT
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100560 I S AGATGAGCCTCCCATCTTCTCCAGGAGCAGT
100560 P C S ATGACGTGGCAGACGACAGCAACTTGGAGAGY
100560 P T S CGCGCCGAGGAGCAGACAACTTGGAGAGY
100560 T C S GCTGCTCTCCAAGTTGTCTGTCCTGCTCCTGGAGAAGATGGGCAGGCTCATCTGG
100560 T T S GCTGCTCTCCAAGTTGTCTGTTCTGCTCCTGGAGAAGATGGGCAGGCTCATCTGG
100560 IS [CT] GTGGCTGAAGGAGGGCCCACCCCCTGCCAGCCCTGCCCAGCTGCTCTCCAAGTTGTCTGT[CT]CTGCTCCTGGAGAAGATGGGCAGGCTCATCTGGGGCGGTGGGTGCCTGG GGGCTGAAGGGC
100561 I S GCTGCTCATTCTCCTTTTCTCGGTCCTAATACCTCGTCTTT
100561 P T S CGCGCCGAGGATCTGGTTTGTGTTGTAAGAAY
100561 P G S ATGACGTGGCAGACCTCTGGTTTGTGTTGTAAGAAY
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100561 IS [TG] ACATAGGGGTCAGAGCCGTCTTCAGAGAAGGCAATGAGGTTTCTTACAACACAACCAGA[TG]AAGACGAGGTATTAGGACCGAGAAAAAGAGAATGAGCAGCACATT CAGATATGCTTTATC
100563 I S CCCCGGGCATGAGGCCGGTGT
100563 P T S CGCGCCGAGGAAGAAAGCTCTGTGTCGY
100563 P C S ATGACGTGGCAGACAGAAAAGCTCTGTGTCGY
100563 T T S CAGCCGACACAGAGCTTTCTTCACCGGCCTCATGCCCGGGGCC
100563 T C S CAGCCGACACAGAGCTTTCTCCACCGGCCTCATGCCCGGGGCC
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100567 I A AGATGCCCCTGGCCCTCACCCTT
100567 P G A ATGACGTGGCAGACGAGGCATGCAGATGGGY
100567 P A A CGCGCCGAGGAAGCATGCAGATGGGY
100567 T G A CGAGCCCATCTCCATGCCTCAGGGTGAGGCCCAGGGCCATCTGA
100567 T A A CGAGCCCATCTCCATGCCTTAGGGTGAGGCCCAGGGCCATCTGA
100567 IS [GA] TGCTGCCTGAGGGGATGGTGACCGTCTTCTTCTGGCTCAGATGGCCCTGGCCCTCACCCT[GA]AGGCATGGAGATGGGCTGGGGCTGGGCCCTGGCACCGGGCCGTGGG GTGCGGGTGCGGG
100572 I A AGTCTCTTGATGCTGTGGAAGAAGCAGCGTTCTTA
100572 P C A ATGACGTGGCAGACCGTGACGTTAGATGAAACTY
100572 P T A CGCGCCGAGGTGTGACGTTAGATGAAACTGY
100572 T C A TCTTCAGTTTCATCTAACGTCACGAAGAAGCGTCGTTTCTCCACAGCATCAAGAGACTGC
100572 T T A TCTTCAGTTTCATCTAACGTCACAAAGAAGCGTCGTTTCTCCACAGCATCAAGAGACTGC



Confidential and Proprietary

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100577	P	T	S	CGCGCCGAGGAGTCACTGATGCGCCY	
100577	P	C	S	ATGACGTGGCAGACGGTCACTGATGCGCY	
100577	T	T	S	GGGGGGCGCATCAGTGACTGTTGCATACCCCTCGTACAGGGCCCCGCC	
100577	T	C	S	GGGGCGCGCATCAGTGACCGTTGCATACCCCTCGTACAGGGCCCCGCC	
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100577	IS	[TC]		GACTTCAGCAGC	DPP3
100580	I		A	GCTCCATATGACAAGTTATATGGAAAACAAGAGACTTCCTTTTTCC	
100580	P	T	A	CGCGCCGAGGTCATTTTCCATTCTCAGCAY	
100580	P	A	A	ATGACGTGGCAGACAACATTTTCCATTCTCAGCAY	
100580	T	T	A	TTTGTGCTGAGAATGGAAAATGACAGAAAAGGAAGTCTCTTGTTTTCCATATAACTTGTCATATGGAGCTA	
100580	T	A	A	TTTGTGCTGAGAATGGAAAATGTGAAAAAGGAAGTCTCTTGTTTTCCATATAACTTGTCATATGGAGCTA	
				AATGAGAAGTTAATAGCTCCATATGACAAGTTATATGGAAAACAAGAGACTTCCTTTTTCCTATACATTTTCCATTCTCAGCACAAATTACCTAATGTGAGAACTGAAATA	
100580	IS	[TA]		AGATCAGTAATGGA	
100582	I		S	GAGCTTTACAGGTTTTCAAGTGCCAACACAAGGTACACT	
100582	P	C	S	ATGACGTGGCAGACGCATATTATTCCTGAAACTCCAY	
100582	P	T	S	CGCGCCGAGGACATATTATTCCTGAAACTCCATY	
100582	T	C	S	ACACATGGAGTTTCAGGAATAATATGCGTGTACCTTGTGTTGGCACTTGAAAACCTGTAAAGCTCCC	
100582	T	T	S	ACACATGGAGTTTCAGGAATAATATGTGTGTACCTTGTGTTGGCACTTGAAAACCTGTAAAGCTCCC	
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100582	IS	[CT]		TATAAGGCATTCTT	
100583	I		S	TGGAGTGTTTTATTGGCTACCCCAGGTCCTACCA	
100583	P	A	S	CGCGCCGAGGTCATATTTAGGCTCCTTAGTCTY	
100583	P	G	S	ATGACGTGGCAGACCCATATTTAGGCTCCTTAGTCY	
100583	T	A	S	GCTGAGACTAAGGAGCCTAAATATGAGGTAGGACCTGGGGTAGCCAATAAAACACTCCAAA	
100583	T	G	S	GCTGAGACTAAGGAGCCTAAATATGGGGTAGGACCTGGGGTAGCCAATAAAACACTCCAAA	
				AAGAGCTGAAAACTAAGAGCAATGCTGCAGCCGAATGCTGAGACTAAGGAGCCTAAATATG[AG]GGTAGGACCTGGGGTAGCCAATAAAACACTCCAAAAAGGTTGCTG	
100583	IS	[AG]		GAATCACTGATTAGG	
100584	I		S	GGGGCCGGGAGGCCCAGGT	
100584	P	C	S	ATGACGTGGCAGACGGAGCCTAGCGAGCY	
100584	P	T	S	CGCGCCGAGGAGAGCCTAGCGAGCY	
100584	T	C	S	CAAGGCTCGCTAGGCTCCCCTGGGCCTCCCGGCCCCCA	
100584	T	T	S	CAAGGCTCGCTAGGCTCTCCTGGGCCTCCCGGCCCCA	
				GAATCTCATGCTGGAACTGGAGACCTCGCAGTCCCCGTGCATGCAAGGCTCGCTAGGCTC[CT]CCTGGGCCTCCCGGCCCCCAGGTTGGTGCACTCTACCGGATCCCTCTCG	
100584	IS	[CT]		CTGTCTCTGT	
100586	I		A	GTGTGGCATGCTCTCAGGGCTCATGCT	
100586	P	G	A	ATGACGTGGCAGACGGTGTCAAAACAAGAGGGY	
100586	P	A	A	CGCGCCGAGGAGTGTCAAAACAAGAGGGY	
100586	T	G	A	TCCCCCCTCTTGTTTTGACACCGCATGAGCCCTGAGAGCATGCCACACTT	
100586	T	A	A	TCCCCCCTCTTGTTTTGACACTGCATGAGCCCTGAGAGCATGCCACACTT	
				ATCGGTTGGCCAGGCCCTGAAGGAGCCCAGGGTAAGTGTGGCCATGCTCTCAGGGCTCATGC[GA]GTGTCAAAACAAGAGGGGGGAAGATGGCAGCTTCCTGGCTCCTGG	
100586	IS	[GA]		CACATAGTCAGGGA	
100587	I		A	GGCTGCAGTCCGGCACTAGGGAATGTCT	
100587	P	A	A	CGCGCCGAGGACGGATATTGGAGAGCCY	
100587	P	G	A	ATGACGTGGCAGACGCGGATATTGGAGAGCY	
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100587	T	G	A	GGCAGGCTCTCCAATATCCGCGACATTCCCTAGTCCGGGACTGCAGCCCC	
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100587	IS	[AG]		CCCTGGGATGCAG	
100600	I		A	GGGGATTTCACCAACCTCGGTGCAACCT	
100600	P	G	A	ATGACGTGGCAGACGAGAGCCCATTTACTTACTGY	
100600	P	A	A	CGCGCCGAGGAAGAGCCCATTTACTTACTGY	
100600	T	G	A	TTTGCAGTAAGTAAATGGGCTCTCGGTTGCACCGAGGTTGGTGAAATCCCCTG	
100600	T	A	A	TTTGCAGTAAGTAAATGGGCTCTTGGTTGCACCGAGGTTGGTGAAATCCCCTG	
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100600	IS	[GA]		GAGTACAGGGTTT	
100604	I		A	CTTCCCAGGGAGAGATTGACGCTCCGGT	
100604	P	C	A	ATGACGTGGCAGACCGAGTGATTACCAGTGTGY	
100604	P	A	A	CGCGCCGAGGAGAGTGATTACCAGTGTGY	
100604	T	C	A	AAAGCACACTGGTAATCACTCGCCGGAGCGTCAATCTCTCCCTGGGAAGGA	
100604	T	A	A	AAAGCACACTGGTAATCACTCTCCGGAGCGTCAATCTCTCCCTGGGAAGGA	
				GGTAAATAGCCCTTGCGGAGAAAACACCCTGTTCCTTCCCAGGGAGAGATTGACGCTCCGG[CA]GAGTGATTACCAGTGTGCTTTTCCATTAAGGTGTGTGACAGGTGCCG	
100604	IS	[CA]		CAAGATAAGCCCG	
100609	I		S	GCCCGGAGTAGGCACCTTTGCCCA	
100609	P	G	S	ATGACGTGGCAGACCATCTCTTCTTCAGAGCGY	
100609	P	A	S	CGCGCCGAGGTATCTCTTCTTCAGAGCGTY	
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100609	T	A	S	GTAAACGCTCTGAAGAAGAGATAGGGCAAAGGTGCCTACTCCGGGCAC	
				ACATATGCCTCTGAGCTGCTGTGATTTCTGGCTTGAAAGTAAACGCTCTGAAGAAGAGATTGA[GG]GGGCAAAGGTGCCTACTCCGGGCACTTCTGCTAGACCCCTCAGAGT	
100609	IS	[GA]		CACTGATCTTTC	
100614	I		A	CAGCAAAATCCAGTCACGTTGTCATCAATTTCAAGACTTTTTACATATACTTTACA	
100614	P	C	A	ATGACGTGGCAGACCCACGTGGGTCCAGY	
100614	P	T	A	CGCGCCGAGGTCACGTGGGTCCAGY	
100614	T	C	A	ATTCCTGGACCCACGTGGGTAAAGTATATGTAAAAAGTCTTGAAATTGATGACAACGTGACTGGATTTTGGCTGGA	
100614	T	T	A	ATTCCTGGACCCACGTGAGTAAAGTATATGTAAAAAGTCTTGAAATTGATGACAACGTGACTGGATTTTGGCTGGA	
				ATTCCAGCCAAAATCCAGTCACGTTGTCATCAATTTCAAGACTTTTTACATATACTTTAC[CT]CACGTGGGTCCAGGAATGATAAGCACTGGTGCCCAGAATACTTATTA	
100614	IS	[CT]		TATCATACAGGTC	
100629	I		S	GGTACAGGTGTACAGGTGTATCCTGTGGAAGAAGCT	
100629	P	T	S	CGCGCCGAGGATTGCTTAAAGAGTATATTAAGCGY	
100629	P	C	S	ATGACGTGGCAGACGTTGCTTAAAGAGTATATTAAGCGY	
100629	T	T	S	TTGACGCTTAATATACTCTTTAAGCAATGCTTCTTCCACAGGATACACCTGTACACCTGTACCAT	
100629	T	C	S	TTGACGCTTAATATACTCTTTAAGCAACGCTTCTTCCACAGGATACACCTGTACACCTGTACCAT	
				TCCCGTCTGCTTACATCAAACATCCACTTACATTTGACGCTTAATATACTCTTTAAGCAA[TC]GCTTCTTCCACAGGATACACCTGTACACCTGTACCATCATCATAGTAA	
100629	IS	[TC]		TACATCATACTG	
100631	I		A	CTAGCTGCAGGATCAAACAGGAATTACATTTCAACAA	
100631	P	T	A	CGCGCCGAGGTACAAGGTTTGTGTTTCTTTGY	
100631	P	C	A	ATGACGTGGCAGACACAAGGTTTGTGTTTCTTTY	
100631	T	T	A	TCTACAAAGAAACACAAACCTTGTATGTTGAAATGTAATTCCTGTTTGATCCTGCAGCTAGAA	
100631	T	C	A	TCTACAAAGAAACACAAACCTTGTGTGTTGAAATGTAATTCCTGTTTGATCCTGCAGCTAGAA	
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FIGURE 129C

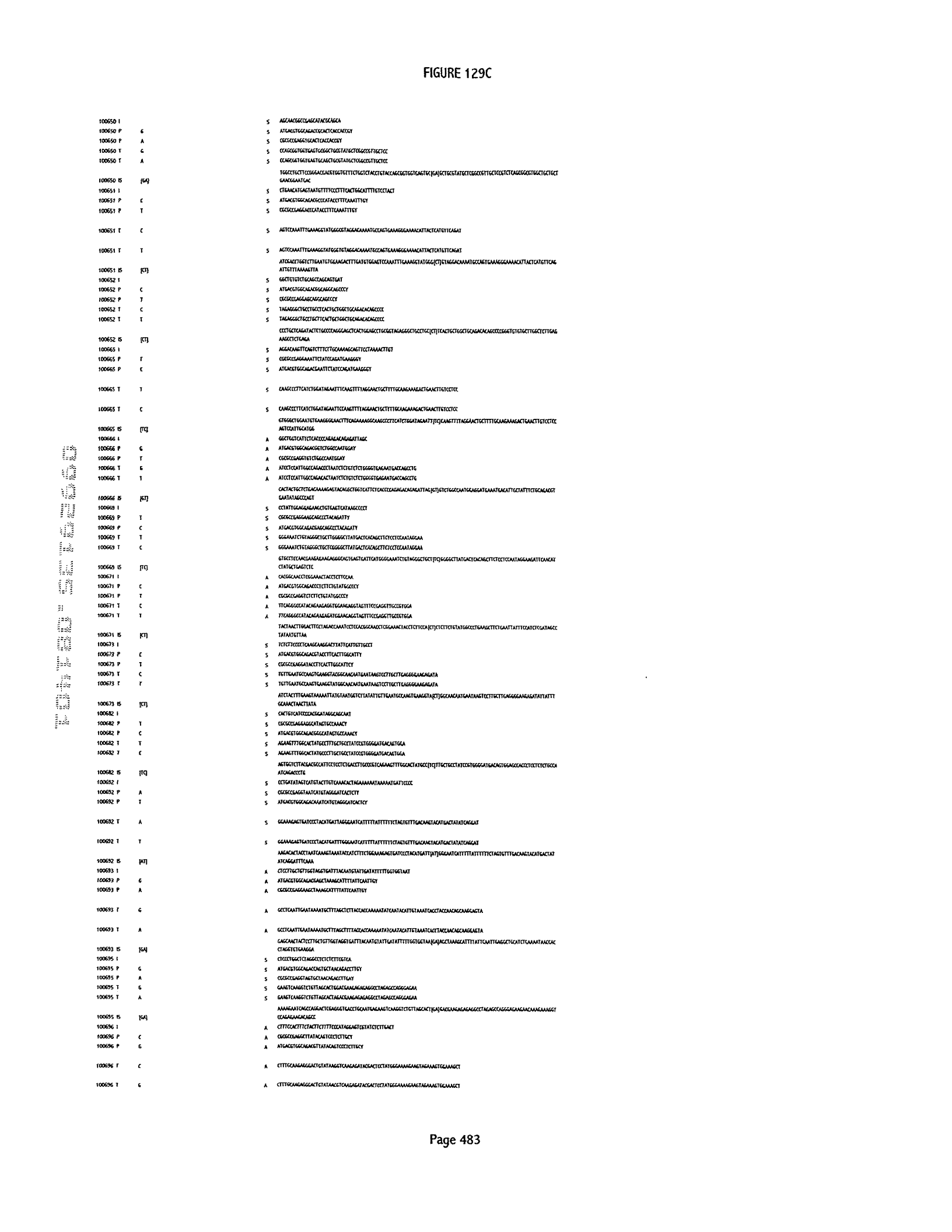


FIGURE 129C

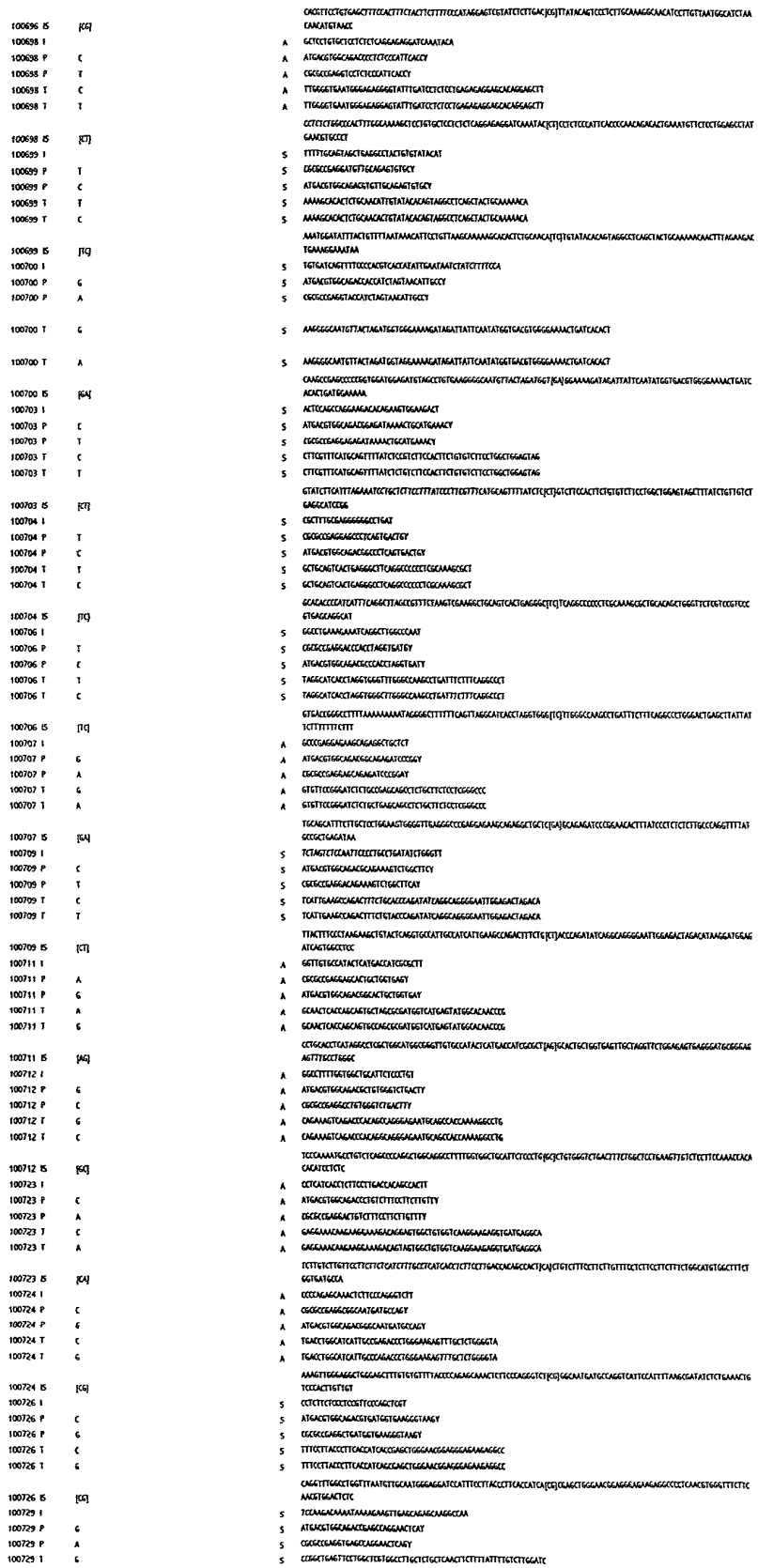

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100698 I
100698 P C
100698 P T
100698 T C
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100698 I5 [CT]
100699 I
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100699 T T
100699 T C
100699 I5 [TC]
100700 I
100700 P G
100700 P A
100700 T G
100700 T A
100700 I5 [GA]
100703 I
100703 P C
100703 P T
100703 T C
100703 T T
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100704 I
100704 P T
100704 P C
100704 T T
100704 T C
100704 I5 [TC]
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100712 P G
100712 P C
100712 T G
100712 T C
100712 I5 [GA]
100723 I
100723 P C
100723 P A
100723 T C
100723 T A
100723 I5 [CA]
100724 I
100724 P C
100724 P G
100724 T C
100724 T G
100724 I5 [CG]
100726 I
100726 P C
100726 P G
100726 T C
100726 T G
100726 I5 [CG]
100729 I
100729 P G
100729 P A
100729 T G

FIGURE 129C

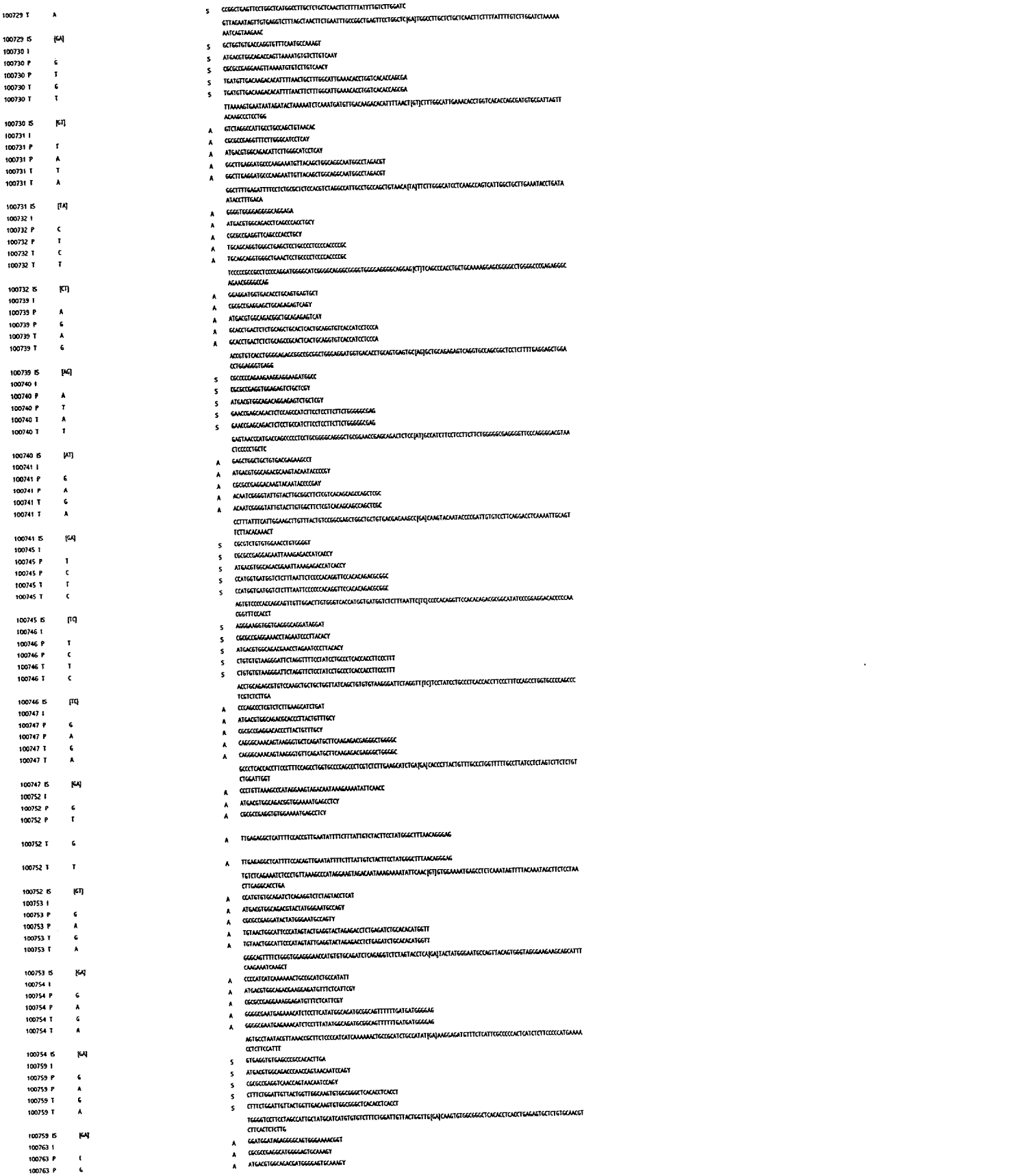


FIGURE 129C

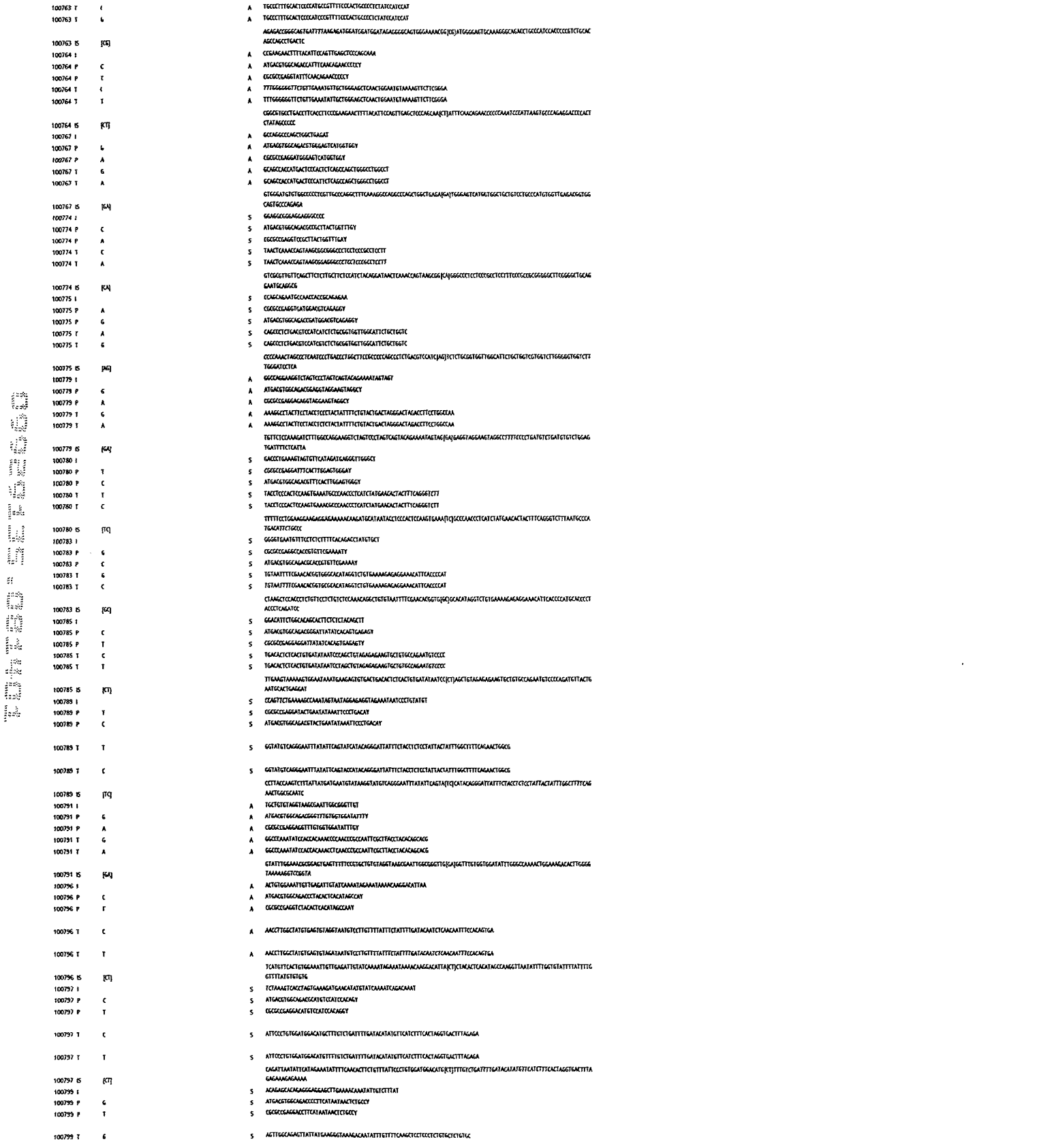


FIGURE 129C

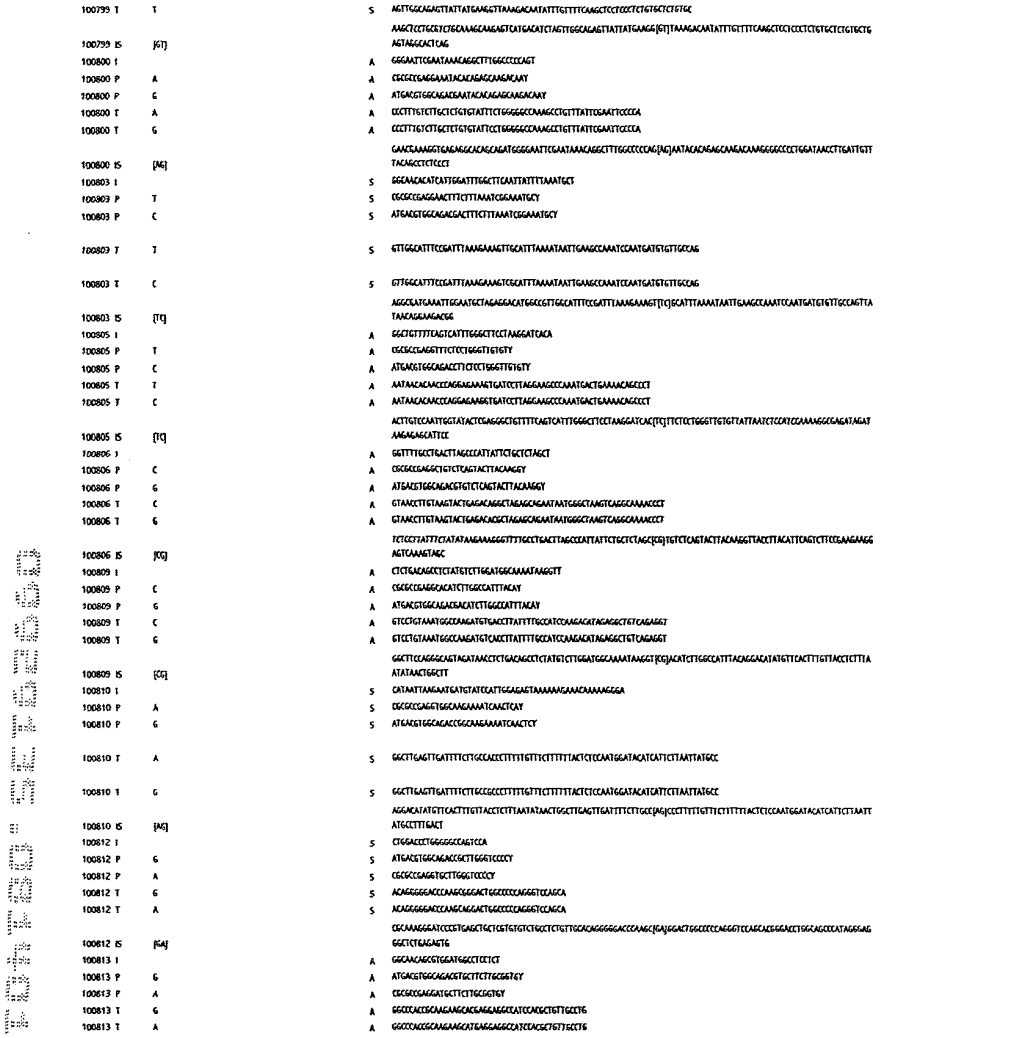
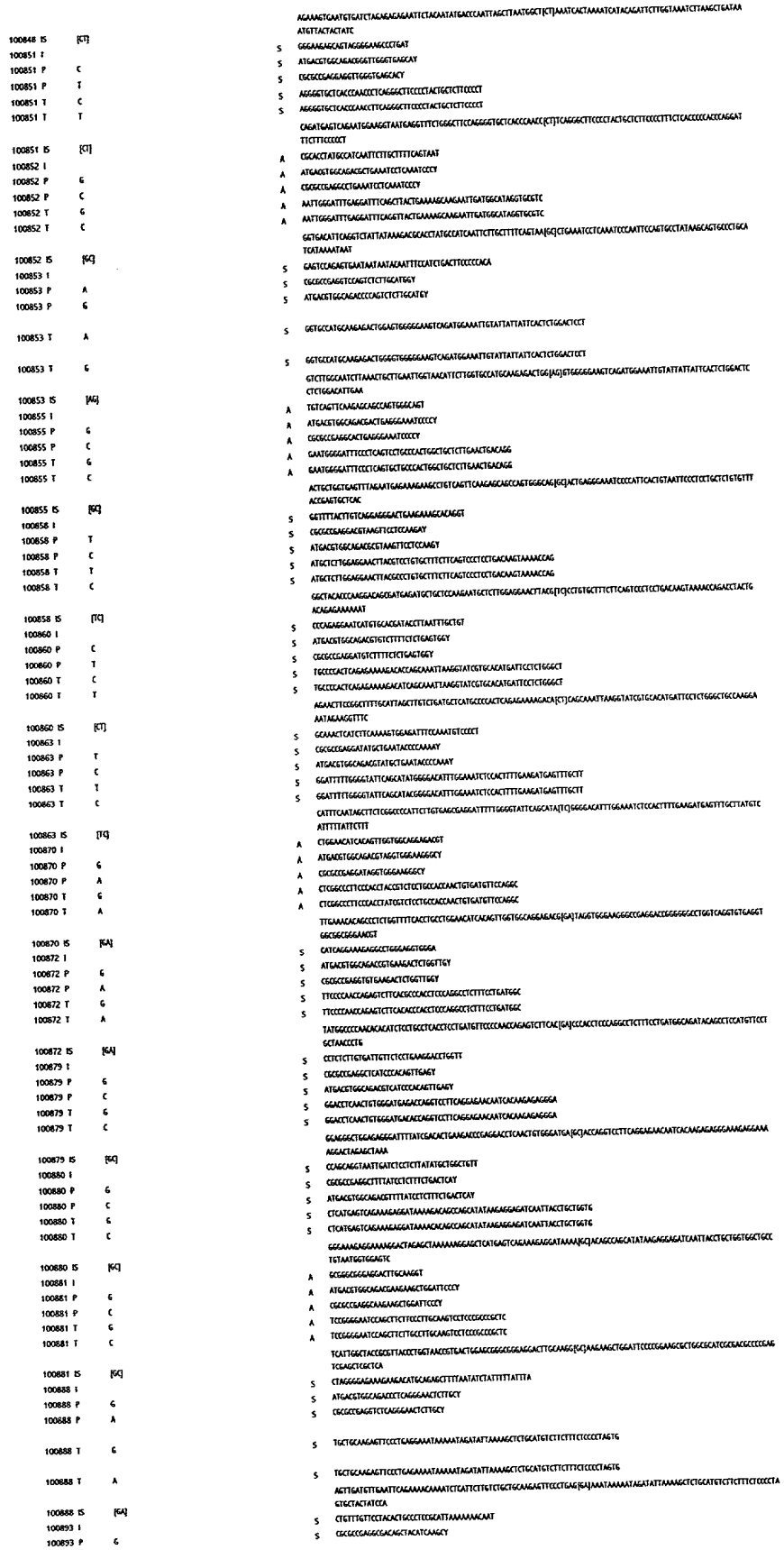
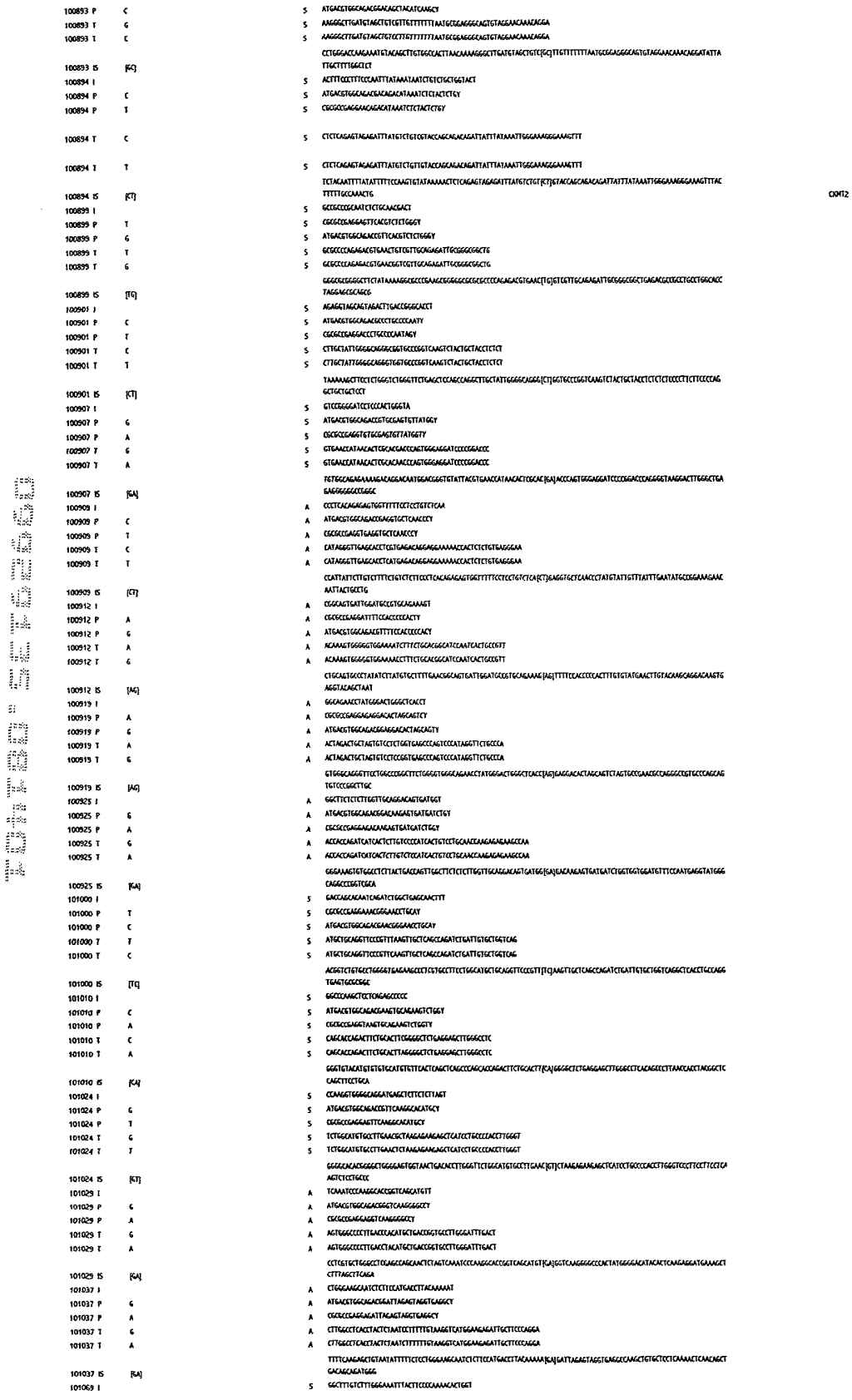

100799 T T S AGTTGGCAGAGTTATTATGAAGGTTAAAGACAATATTTGTTTTCAAGCTCCTCCCTCTGTGCTCTGTGC
AAGCTCCTGCCTCTGCAAAGCAAGAGTCATGACATCTAGTTGGCAGAGTTATTATGAAGG[GT]TAAAGACAATATTTGTTTCAAGCTCCTCCCTCTGTGCTCTGTGCTG
100799 IS [GT] AGTAGGCACTCAG
100800 I A GGGAATTCGAATAAACAGGCTTTGGCCCCCAGT
100800 P A A CGCGCCGAGGAAATACACAGAGCAAGMCAAY
100800 P G A ATGACGTGGCAGACGAATACACAGAGCAAGACAAY
100800 T A A CCCTTTGTCTTGCTCTGTGTATTTCTGGGGGCCAAGCCTGTTTATTCGAATTCCCCA
100800 T G A CCCTTTGTCTTGCTCTGTGTATTCCTGGGGGCCAAGCCTGTTTATTCGAATTCCCCA
GAACAAAGGTGAGAGGCACAGCAGATGGGGAATTCGAATAAACAGGCTTTGGCCCCCAG[AG]AATACACAGAGCAAGACAAAGGGGCCCTGGATAACCTTGATTGTT
100800 IS [AG] TACAGCCTCTCCCT
100803 I S GGCAACACATCATTGGATTTGGCTTCAATTATTTAAATGCT
100803 P T S CGCGCCGAGGAACTTTCTTTAAATCGGAAATGCY
100803 P C S ATGACGTGGCAGACGACTTTCTTTAAATCGGAAATGCY
100803 T T S GTTGGCATTTCCGATTTAAAGAAAGTTGCATTTAAAATAATTGAAGCAAATCCAATGATGTGTTGTGCCAG
100803 T C S GTTGGCATTTCCGATTTAAAGAAAGTCGCATTTAAAATAATTGAAGCAAATCCAATGATGTGTTGCCAG
AGGCGATGAAATTGGAATGCTAGAGGACATGGCCGTTGGCATTTCCGATTTAAAGAAAGT[TC]GCATTTAAAATAATTGAAGCCAAATCCAATGATGTGTTGCCAGTTA
100803 IS [TC] TAACAGGAAGACGG
100805 I A GGCTGTTTTCAGTCATTTGGGCTTCCTAAGGATCACA
100805 P T A CGCGCCGAGGTTTCTCCTGGGTTGTGTY
100805 P C A ATGACGTGGCAGACCTTCTCCTGGGTTGTGTY
100805 T T A AATAACACAACCCAGGAGAAAGTGATCCTTAGGAAGCCCAAATGACTGAAAACAGCCCT
100805 T C A AATAACACAACCCAGGAGAAGGTGATCCTTAGGAAGCCCAAATGACTGAAAACAGCCCT
ACTTGTCCAATTGGTATACTCGAGGGCTGTTTTCAGTCATTTGGGCTCTCCTAAGGATCAC[TC]TTCTCCTGGGTTGTGTTATTAATCTCCATCGAAAGGCGAGATAGAT
100805 IS [TC] AAGAGAGCATTCC
100806 I A GGTTTTGCCTGACTTAGCCCATTATTCTGCTCTAGCT
100806 P C A CGCGCCGAGGCTGTCTCAGTACTTACAAGGY
100806 P G A ATGACGTGGCAGACGTGTCTCAGTACTTACAAGGY
100806 T C A GTAACCTTGTAAGTACTGAGACAGGCTAGAGCAGAATAATGGGCTAAGTCAGGCAAAACCCT
100806 T G A GTAACCTTGTAAGTACTGAGACACGCTAGAGCAGAATAATGGGCTAAGTCAGGCAAAACCCT
TCTCCTTATTTCTATATAAGAAAGGGTTTTGCCTGACTTAGCCCATTATTCTGCTCTAGC[CG]TGTCTCAGTACTTACAAGGTTACCTTACATTCAGTCTTCCGAAGAAGG
100806 IS [CG] AGTCAAAGTAGC
100809 I A CTCTGACAGCCTCTATGTCTTGGATGGCAAAATAAGGTT
100809 P C A CGCGCCGAGGCACATCTTGGCCATTTACAY
100809 P G A ATGACGTGGCAGACGACATCTTGGCCATTTACAY
100809 T C A GTCCTGTAAATGGCCAAGATGTGACCTTATTTTGCCATCCAAGACATAGAGGCTGTCAGAGGT
100809 T G A GTCCTGTAAATGGCCAAGATGTCACCTTATTTTGCCATCCAAGACATAGAGGCTGTCAGAGGT
GGCTTCCAGGGCAGTAGATAACCTCTGACAGCCTCTATGTCTTGGATGGCAAAATAAGGT[CG]ACATCTTGGCCATTTACAGGAACATATGTTCACTTTGTTACCICTTTA
100809 IS [CG] ATATAACTGGCTT
100810 I S CATAATTAAGAATGATGTATCCATTGGAGAGTAAAAAAGAAACAAAAGGGA
100810 P A S CGCGCCGAGGTGGCAAGAAATCAACTCAY
100810 P G S ATGACGTGGCAGACCGGCAAGAAATCAACTCY
100810 T A S GGCTTGAGTTGATTTTCTTGCCACCCTTTTTGTTTCTTTTTTACTCTCCAATGGATACATCATTCTTAATTATGCC
100810 T G S GGCTTGAGTTGATTTTCTTGCCGCCCTTTTTGTTTCTTTTTTACTCTCCAATGGATACATCATTCTTAATTATGCC
AGAACATATGTTCACTTTGTTACCTCTTTAATATAACTGGCTTGAGTTGATTTTCTTGCC[AG]CCCTTTTTGTTTCTTTTTACTCTCCAATGGATACATCATTCTTAATT
100810 IS [AG] ATGCCTTTGACT
100812 I S CTGGACCCTGGGGGCCAGTCCA
100812 P G S ATGACGTGGCAGACCGCTTGGGTCCCCY
100812 P A S CGCGCCGAGGTGCTTGGGTCCCCY
100812 T G S ACAGCGGGACCCAAGCGGGACTGCCCCCAGGGTCCAGCA
100812 T A S ACAGCGGGACCCAAGCAGGACTGCCCCCAGGGTCCAGCA
CGCAAAGGGATCCCGTGAGCTGCTCGTGTGTCTGCCTCTGTTGCACAGGGGGACCCAAGC[GA]GGACTGGCCCCCAGGGTCCAGCACGGACTGGCAGCCCATAGGGAG
100812 IS [GA] GGCTCTGAGAGTG
100813 I A GGCAACAGCGTGGATGGCCTCCTCT
100813 P G A ATGACGTGGCAGACGTGCTTCTTGCGGTGY
100813 P A A CGCGCCGAGGATGCTTCTTGCGGTGY
100813 T G A GGCCCACCGCAAGAAGCACGAGGAGGCCATCCAGCTGTTGCCTG
100813 T A A GGCCCACCGCAAGAAGCATGAGGAGGCCATCCAGCTGTTGCCTG
GCCAGCACTGGCAATGAGGGCCTTGCTGGGGTGGCAGGCAACAGCGTGGATGGCCTCCTC[GA]TGCTTCTTGCGGTGGGCCGTGATCTCCTGCACGCACGTTTTGTTGTC
100813 IS [GA] CAGGCTCCAGAGA ZIM
100815 I S AGGTAATTAACATAGGTAGGATCCAGTTCCTATGACAGGT
100815 P G S ATGACGTGGCAGACCTGCTGAAGAACAGATATGAY
100815 P T S CGCGCCGAGGATGCTGAAGAACAGATATGAGY
100815 T G S GATGCTCATATCTGTTCTTCAGCAGCCTGTCATAGGAACTGGATCCTACCTATGTTAATTACCTTA
100815 T T S GATGCTCATATCTGTTCTTCAGCATCCTGTCATAGGAACTGGATCCTACCTATGTTAATTACCTTA
ATGGCATCACGGTGGCAGTGGCACAAAATGGGCCTCTTGATGCTCATATCTGTTCTCAGCA[GT]CCTGTCATAGGAACTGGATCCTACCTATGTTAATTACCTTATAGAAC
100815 IS [GT] TACTAAAGTTCCA XIP
100816 I A GGCCACCTGGTGGCCCACAGTGT
100816 P C A CGCGCCGAGGCTGGCTTCTTCCCCCY
100816 P G A ATGACGTGGCAGACGTGGCTTCTTCCCCCY
100816 T C A AAGAGGGGGAAGAAGCCAGCACTGTGGGCCCCAGGTGGCCCC
100816 T G A AAGAGGGGGAAGAAGCCACCACTGTGGGCCCCAGGTGGCCCC
GTGCCACCCCTGCAGAATGCCCTGTCATTCCTGAGATGGGCCACCTGGGGCCCACAGTG[CG]TGGCTTCTTCCCCCTCTTGAAAGGGACTGGGGAGCATTGCACCTGGC
100816 IS [CG] ATGAGGAGTGGG
100817 I A AGGCCAGTCCACAAATAATATAATGGTAAGCAGCAACATTTTTTT
100817 P A A CGCGCCGAGGAACTTATAAATAAGAGATACACATAGCY
100817 P G A ATGACGTGGCAGACGACTTATAAATAAGAGATACACATAGCY
100817 T A A TTCTGCTATGTGTATCTCTTATTTATAAGTTAAAAAAATGTTGCTGCTTACCATTATATTAATTTGTGGACTGGGCCTTG
100817 T G A TTCTGCTATGTGTATCTCTTATTTATAAGTCAAAAAAATGTTGCTGCTTACCATTATATTAATTTGTGGACTGGGCCTTG
GCTTACACTGGCAAGCCCAGTCCACAAATTAATATAATGGTAAGCAGCAACATTTTTTT[AG]ACTTATAAATAAGAGATACACATAGCAGAAGGATGTTTGCCGGTA
100817 IS [AG] TGGTAAACACCAAA
100818 I A AGAAAAGGGGATAGCAAGCCTGGTTCTGGGTAT
100818 P G A ATGACGTGGCAGACGTCTATATCCATTTGCAAGGY
100818 P A A CGCGCCGAGGATCTATATCCATTTGCAAGGTY
100818 T G A AGAAACCTTGCAAATGGATATTAGACTACCCAGAACCAGGCTTGCTATCCCCTTTCTCA
100818 T A A AGAAACCTTGCAAATGGATATTAGATTACCCAGAACCAGGCTTGCTATCCCCTTTCTCA
TGAGGTTATCATTTTCTGCAGTATTATGAGAAAAGGGGATAGCAAGCCTGGTTCTGGGTA[AG]TCTAATATCCATTTGCAAGGTTTCTCCCTTTTGCTAATTTAATAATT
100818 IS [CA] TTTACTGGTTTGAT
100819 I A TGACATGGAGCAAAGTTGGAAGGCACCTGA
100819 P C A ATGACGTGGCAGACCGGCCAGGCATTGY
100819 P T A CGCGCCGAGGTGGCCAGGCATTGTY
100819 T C A CTGCACAATGCCTGGCCACAGGTGCCCTCCAACTTTGCTCCATGTCACC
100819 T T A CTGCACAATGCCTGGCCACAGGTGCCCTCCAACTTTGCTCCATGTCACC

FIGURE 129C



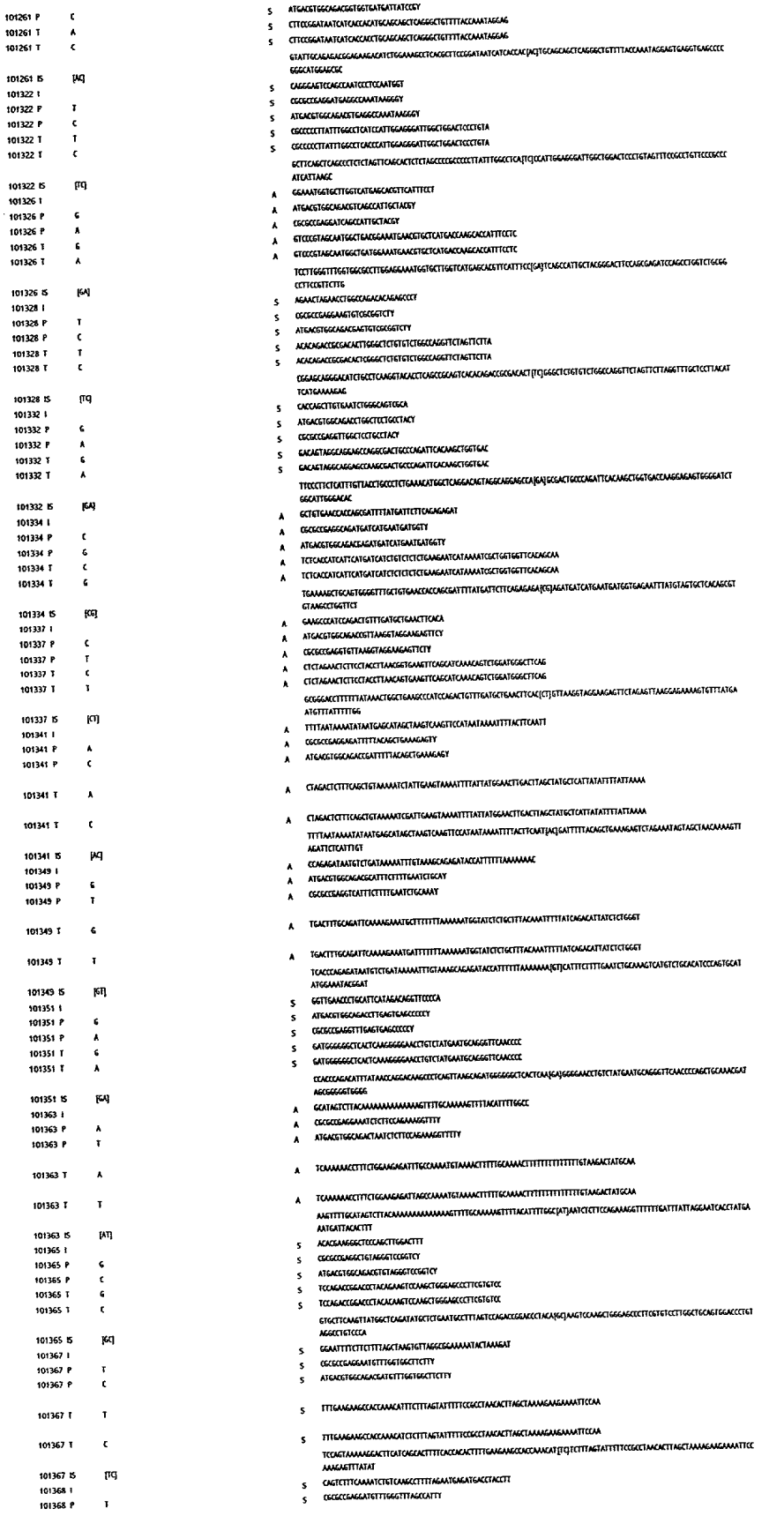
FIGURE 129C




100893 P C S ATGACGTGGCAGACGGACAGCTACATCAAGCY
100893 T G S AAGGGCTTGATGTAGCTGTCGTTGTTTTTTTAATGCGGAGGGCAGTGTAGGAACAAACAGGA
100893 T C S AAGGGCTTGATGTAGCTGTCCTTGTTTTTTTAATGCGGAGGGCAGTGTAGGAACAAACAGGA
100893 IS [GC] CCTGGGACCAAGAAATGTACAGCTTGTGGCCACTTAACAAAGGGCTTGATGTAGCTGTC[GC]TTGTTTTTTTAATGCGGAGGGCAGTGTAGGAACAAACAGGATATTA TTGCTTTTGGCCCT
100894 I S ACTTTCCCTTTCCCAATTTATAAATAATCTGTCTGCTGGTACT
100894 P C S ATGACGTGGCAGACGACAGACATAAATCTCTACTCTCY
100894 P T S CGCGCCGAGGAACAGACATAAATCTCTACTCTGY
100894 T C S CTCTCAGAGTAGAGATTTATGTCTGTCGTACCAGCAGACAGATTATTTATAAATTGGGAAAGGGAAAGTTT
100894 T T S CTCTCAGAGTAGAGATTTATGTCTGTTGTACCAGCAGACAGATTATTTATAAATTGGGAAAGGGAAAGTTT
100894 IS [CT] TCTACAATTTTATATTTTCCAAGTGTATAAAAACTCTCAGAGTAGAGATTTATGTCTGT[CT]GTACCAGCAGACAGATTATTTATAAATTGGGAAAGGGAAAGTTTAC TTTTTGCCAAACTG CXMT2
100899 I S GCCGCCCGCAATCTCTGCAACGACT
100899 P T S CGCGCCGAGGAGTTCACGTCTCTGGGY
100899 P G S ATGACGTGGCAGACGGTCACGTCTCTGGGY
100899 T T S GCGCCCCAGAGACGTGAACTGTCGTTGCGAGAGATTGCGGGGCGGCTG
100899 T G S GCGCCCCAGAGACGTGAACGGTCGTTGCAGAGATTGCGGGGCGGCTG
100899 IS [TG] GGGCGCGGGGCTTCTATAAAAGGCGCCCGAAGCGGGGCGCGCGCCCCACAGACGTGAACTT[G]GTCGTTGCAGAGATTGCGGGCGGCTGAGACGCCGCCTGCCTGGCACC TAGGAGCGCAGCG
100903 I S AGAGGTAGCAGTAGACTTGACCGGGCACCT
100901 P C S ATGACGTGGCAGACGCCTGCCCCAATY
100901 P T S CGCGCCGAGGACCCTGCCCCAATAGY
100901 T C S CTTGCTATTGGGGCAGGGCGGTGCCCGGTCAAGTCTACTGCTACCTCTCT
100901 T T S CTTGCTATTGGGGCAGGGTGGTGCCCGGTCAAGTCTACTGCTACCTCTCT
100901 IS [CT] TAAAAAGCTTCCTCTGGGTCTGGGTTCTGAGCTCCAGCCAGGCTTGCTATTGGGGGCAGGG[CT]GGTGCCCGGTCAAGTCTACTGCTACCTCTCTCTCCCCTTCTTCCCCAG GCTGCTGCTCCT
100907 I S GTCCGGGGATCCTCCCCACTGGGTA
100907 P G S ATGACGTGGCAGACCGTGCGAGTGTTATGGY
100907 P A S CGCGCCGAGGTGTGCGAGTGTTATGGTY
100907 T G S GTGAACCATAACACTCGCACCACCAGTGGGAGGATCCCCGGACCC
100907 T A S GTGAACCATAACACTCGCACAACCAGTGGGAGGATCCCCGGACCC
100907 IS [GA] TGTGGCAGAGAAAAGACAGGACAATGGACGGGTGTATTACGTGAACCATAACACTCGCAC[GA]ACCCAGTGGGAGGATCCCCGGACCCAGGGGTAAGGACTTGGGCTGA GAGGGGGGCTGGC
100909 I A CCCTCACAGAGAGTGGTTTTCCTCCTGTCTCAA
100909 P C A ATGACGTGGCAGACCGAGGTGCTCAACCCY
100909 P T A CGCGCCGAGGTGAGGTGCTCAACCCY
100909 T C A CATAGGGTTGAGCACCTCGTGAGACAGGAGGAAAAACCACTCTCTGTGAGGGAA
100909 T T A CATAGGGTTGAGCACCTCATGAGACAGGAGGAAAAACCACTCTCTGTGAGGGAA
100909 IS [CT] CCATTATTCTTGTCTTTCTGTCTCTTCCCTCACAGAGAGTGGTTTTCCTCCTGTCTCA[CT]GAGGTGCTCAACCCTATGTATTGTTTATTTGAATATGCCGGAAAGAAC AATTACTGCCTG
100912 I A CGGCAGTGATTGGATGCCGTGCAGAAAGT
100912 P A A CGCGCCGAGGATTTTCCACCCCCACTY
100912 P G A ATGACGTGGCAGACGAGTTTCCACCCCACY
100912 T A A ACAAAGTGGGGGGTGGAAAATCTTTCTGCACGGCATCCAATCACTGCCGTT
100912 T G A ACAAAGTGGGGGGTGGAAAACCTTTCTGCACGGCATCCAATCACTGCCGTT
100912 IS [AG] CTGCAGTGCCCTATATCTTATGTGCTTTTGAACGGCAGTGATTGGATGCCGTGCAGAAAG[AG]TTTTCCACCCCCACTTTGTGTATGAACTTGTACAAGCAGGACAAGTG AGGTACAGCTAAT
100919 I A GGCAGAACCTATGGGACTGGGCTCACCT
100919 P A A CGCGCCGAGGAGAGGACACTAGCAGTCY
100919 P G A ATGACGTGGCAGACGAGGAGGACACTAGCAGTY
100919 T A A ACTAGACTGCTAGTGTCCTCTGGTGAGCCCAGTCCCATAGGTTCTGCCCA
100919 T G A ACTAGACTGCTAGTGTCCTCCGGTGAGCCCAGTCCCATAGGTTCTGCCCA
100919 IS [AG] GTGGGCAGGGTTCCTGACCCGGCTTCTGGGGTGGGCAGAACCTATGGGACTGGGCTCACC[AG]GAGGACACTAGCAGTCTAGTGCCGAACGCCAGGGCCGTGCCCAGCAG TGTCCCGGCTTGC
100925 I A GGCTTCTCTCTTGGTTGCAGGACAGTGATGGT
100925 P G A ATGACGTGGCAGACGGACAAGAGTGATGATCTGY
100925 P A A CGCGCCGAGGAGACAACAGTGATGATCTGGY
100925 T G A ACCACCAGATCATCACTCTTGTCCCATCACTGTCCTGCAACCAAGAGAGAAGCCAA
100925 T A A ACCACCAGATCATCACTCTTGTCTCCATCACTGTCCTGCAACCAAGAGAGAAGCCAA
100925 IS [GA] GGGAAAGTGTGGCCTCTTACTGACCAGTTGGCTTCTCTCTTGGTTGCAGGACAGTGATGG[GA]GACAAGAGTGATGATCTGGTGGTGGATGTTTCCAATGAGGTATGGG CAGGCCCGGTCGCA
101000 I S GACCAGCACAATCAGATCTGGCTGAGCAACTTT
101000 P T S CGCGCCGAGGAAACGGGAACCTGCAY
101000 P C S ATGACGTGGCAGACGAACGGGAACCTGCAY
101000 T T S ATGCTGCAGGTTCCCGTTTAAGTTGCTCAGCCAGATCTGATTGTGCTGGTCAG
101000 T C S ATGCTGCAGGTTCCCGTTCAAGTTGCTCAGCCAGATCTGATTGTGCTGGTCAG
101000 IS [TC] ACGGTCTGTGCCTGGGGTGAGAAGCCCTCGTGCCTTCTGGCATGCTGCAGGTTCCCGTTT[C]AAGTTGCTCAGCCAGATCTGATTGTGCTGGTCAGGCTCACCTGCCAGG TGAGTGCGCGGC
101010 I S GGCCCAAGCTCCTCAGAGCCCCC
101010 P C S ATGACGTGGCAGACGAAGTGCAGAAGTCTGGY
101010 P A S CGCGCCGAGGTAAGTGCAGAAGTCTGGTY
101010 T C S CAGCACCAGACTTCTGCACTCGGGGCTCTGAGGAGCTTGGGCCTC
101010 T A S CAGCACCAGACTTCTGCACTTAGGGGCTCTGAGGAGCTTGGGCCTC
101010 IS [CA] GGGTGTACATGTGTGTGCATGTGTTTCACTCAGCTCAGCCCAGCACCAGACTTCTGCACTT[CA]GGGGCTCTGAGGAGCTTGGGCCTCACAGCCCTTAACCACCTAGGGCTC CAGCTTCCTGCA
101024 I S CCAAGGTGGGGCAGGATGAGCTCTTCTCTTAGT
101024 P G S ATGACGTGGCAGACGGTTCAAGGCACATGCY
101024 P T S CGCGCCGAGGAGTTCAAGGCACATGCY
101024 T G S TCTGGCATGTGCCTTGAACGCTAAGAGAAGAGCTCATCCTGCCCCACCTTGGGT
101024 T T S TCTGGCATGTGCCTTGAACTCTAAGAGAAGAGCTCATCCTGCCCCACCTTGGGT
101024 IS [CT] GGGGCACACGGGGCTGGGGAGTGGTAACTGACACCTTGGGTTCTGGCATGTGCCTTGAAC[CT]CTAAGAGAAGAGCTCATCCTGCCCCACCTTGGGTCCCTTCCTTCCCCA AGTCTCCTGCCC
101029 I A TCAAATCCCAAGGCACCGGCTCAGCATGTT
101029 P G A ATGACGTGGCAGACGGGTCAAGGGGCCY
101029 P A A CGCGCCGAGGAGGTCAAGGGGCCY
101029 T G A AGTGGGCCCCTTGAACTCACATGCTGACCGGTGCCTTGGGATTTGACT
101029 T A A AGTGGGCCCCTTGAACTACATGCTGACCGGTGCCTTGGGATTTGACT
101029 IS [GA] CCTCGTGCTGGGCCTCGAGCCAGCAACTCTAGTCAAATCCCAAGGCACCGGTCAGCATGT[GA]GGTCAAGGGGCCCACTATGGGGACATACACTCAAGAGGATGAAAGCT CTTTAGCTTCAGA
101037 I A CTGGGAAGCAATCTCTTCCATGACCTTACAAAAAT
101037 P G A ATGACGTGGCAGACGGATTAGAGTAGGTGAGGCY
101037 P A A CGCGCCGAGGAGATTAGAGTAGGTGAGGCY
101037 T G A CTTGGCCTCACCTACTCTAATCCTTTTTGTAAGGTCATGGAAGAGATTGCTTCCCAGGA
101037 T A A CTTGGCCTCACCTACTCTAATCTTTTTTGTAAGGTCATGGAAGAGATTGCTTCCCAGGA
101037 IS [GA] TTTTCAAGAGCTGTAATATTTTCTCCTGGGAAGCAATCTCTTCCATGACCTTACAAAAAA[GA]GATTAGAGTAGGTGAGGCCAAGCTGTGCTCCTCAAAACTCAACAGCT GACAGCAGATGGG
101069 I S GGCTTTGTCTTTGGGAAATTTACTTCCCCAAAACACTGGT

101069 P	C	S	ATGACGTGGCAGACGACATTGGGATGGAATTCAY	
101069 P	T	S	CGCGCCGAGGAACATTGGGATGGAATTCAY	
101069 T	C	S	TGAGTGAATTCCATCCCAATGTTCCAGTGTTTTGGGGAAGTAAATTTCCCAAAGACAAAGCCAC	
101069 T	T	S	TGAGTGAATTCCATCCCAATGTTCCAGTGTTTTGGGGAAGTAAATTTCCCAAAGACAAAGCCAC	
101069 IS	[CT]		GATTCTTAGTCTCCTTAACCAGGGTGATGATTTGGGGTGAGTGAATTCCATCCCAATGT[CT]CCAGTGTTTTGGGGAAGTAAATTTCCCAAAGACAAAGCCACTAATTG GGTCGGCACCAAA	
101071 I		A	CACATTCCAGAAGGAAGAGAGCAAGAGTGGAGACAGT	
101071 P	A	A	CGCGCCGAGGATGATAGCACATACACAGGY	
101071 P	G	A	ATGACGTGGCAGACGTGATAGCACATACACAGGY	
101071 T	A	A	GATTCCTGTGTATGTGCTATCATCTGTCTCCACTCTTGCTCTCTTCTTCTGGAATGTGCC	
101071 T	G	A	GATTCCTGTGTATGTGCTATCACCTGTCTCCACTCTTGCTCTCTTCTTCTGGAATGTGCC	
101071 IS	[AG]		GTATGTATGTGCTGAGGGAGGGGCACATTCCAGAAGGAAGAGAGCAAGAGTGGAGACAG[AG]TGATAGCACATACAGAGGAATCTAAAAGCAGACTTCCCACATATG TTGCTAGGATCCTTG	
101080 I		A	GCTTTTCACAGCTGCGCTCATCTGGACCT	
101080 P	A	A	CGCGCCGAGGAGAATGGGCTGAAATGTGY	
101080 P	G	A	ATGACGTGGCAGACGGAATGGGCTGAAATGTY	
101080 T	A	A	TACTCACATTTCAGCCCATTCTGGTCCAGATGAGCGCAGCTGTGAAAAGCCC	
101080 T	G	A	TACTCACATTTCAGCCCATTCCGGTCCAGATGAGCGCAGCTGTGAAAAGCCC	
101080 IS	[AG]		CCATAGCCTTTTCGTCACAGCTGGAAGAAGGGCTTTCACAGCTGCGCTCATCTGGACC[AG]GAATGGGCTGAAATGTGAGTAGCTGAGAATCCCCAGAGAGGAGAGA GTAATGGTTTGTAC	
101082 I		S	TGTCAACAAGCCCCAGCCGGCA	
101082 P	G	S	ATGACGTGGCAGACCGAAGCACAGCAGAAGT	
101082 P	A	S	CGCGCCGAGGTGAAGCACAGCAGAAGY	
101082 T	G	S	TTGCCTTCTGCTGTGCTTCGGGCCGGCTGGGGCTTGTTGACACC	
101082 T	A	S	TTGCCTTCTGCTGTGCTTCAGGCCGGCTGGGGCTTGTTGACACC	
101082 IS	[GA]		TGAGCAGCTGAGTAGCCTGCAGGTCCTAGATGCAGAACAGCCTTCCTTGCCAAATACTTCCCCTTTC[GA]GGCCGGCTGGGGCTTGTTGACACCCGGCAGAAGTGGGCACCGTTGGA GAATCGCAGCCCT	FU14888
101093 I		S	GAGGCTGCTCGGAGCTTCAGGTCCATT	
101093 P	T	S	CGCGCCGAGGAAAGGGGAAGTATTTGGCY	
101093 P	C	S	ATGACGTGGCAGACGAAGGGGAAGTATTTGGCY	
101093 T	T	S	CCTTGCCAAATACTTCCCCTTTATGGACCTGAAGCTCCGAGCAGCCTCCC	
101093 T	C	S	CCTTGCCAAATACTTCCCCTTCATGGACCTGAAGCTCCGAGCAGCCTCCC	
101093 IS	[TC]		GGCATACGTCCGCGTGCTGGACTTGCACAAGAAGCCCTTCCTTGCCAAATACTTCCCCTTT[TC]ATGGACCTGAAGCTCCGAGCAGCCTCCCCGATCATTACATTGGTGTGA GTTCTCCTAGGG	
101156 I		S	ACTATTAACGTTCTTAAGCCTGACCCCCATCACCCT	
101156 P	C	S	ATGACGTGGCAGACGCATCTCAGATACCCACY	
101156 P	G	S	CGCGCCGAGGCATCTCAGATACCCACGY	
101156 T	C	S	AACACGTGGGTATCTGAGATGCGGGGTGATGGGGGTCAGGCTTAAGAACGTTAATAGTGG	
101156 T	G	S	AACACGTGGGTATCTGAGATGGGGGTGATGGGGGTCAGGCTTAAGAACGTTAATAGTGG	
101156 IS	[CG]		ACTTACTCAAATCCAGGCCTCAGACGAAGATCAGTGCGTGAACACGTGGGTATCTGAGATG[CG]GGGTGATGGGGGTCAGGCTTAAGAACGTTAATAGTGGCAGTTGTGG GTGTGCAGGTTTGC	
101185 I		A	GGGGCCTGGGGAATTTCTAAAGCTTCCTCTTCT	
101185 P	G	A	ATGACGTGGCAGACGTCGTCGGCATCATCY	
101185 P	A	A	CGCGCCGAGGATCGTCGGCATCATCAY	
101185 T	G	A	CAGATGATGATGCCGACGACGAAGAGGAAGCTTTAGAAATCCCCAGGCCCCTG	
101185 T	A	A	CAGATGATGATGCCGACGATGAAGAGGAAGCTTTAGAAATCCCCAGGCCCCTG	
101185 IS	[GA]		GGATCCAGGAGTCTGGTCCAGTGCTCTCAGGGGCCTGGGGATTTCTAAAGCTTCCTCTTC[GA]TCGTCGGCATCATCATCTGCAACATCCGTTTCCAAATCAGAAATCAA GGCTCCAGACACA	
101204 I		A	CAAACCAATAACAGGTTTGAAGTGCCCCACGAACAA	
101204 P	C	A	ATGACGTGGCAGACCGTGCAGTCCTTCAGTY	
101204 P	T	A	CGCGCCGAGGTGTGCAGTCCTTCAGTY	
101204 T	C	A	TTCCACTGAAGGACTGCACGTGTTCGTGGGGCACTTCAAACCTGTTATTGGTTTGGT	
101204 T	T	A	TTCCACTGAAGGACTGCACATGTTCGTGGGGCACTTCAAACCTGTTATTGGTTTGGT	
101204 IS	[CT]		TTCTATCTCTGCAGAGTTGACTGACCAAACCAATAACAGGTTTGAAGTGCCCCACGAACA[CT]GTGCAGTCCTTCAGTGGAAATGCTGCTGCTTCTTTGAACCTACCAAGTT GAAATCTCCAGA	
101220 I		A	GCCATGAGTTCATGCAATAGCAGTGTAAAAAGGAGC	
101220 P	T	A	CGCGCCGAGGTCTGGTTGTGATGAGAGY	
101220 P	A	A	ATGACGTGGCAGACACTGGTTTGTGATGAGAGY	
101220 T	T	A	TTTGCTCTCATCACAAACCAGACTCCTTTTTACACTGCTATTGCATGAACTCATGGCAC	
101220 T	A	A	TTTGCTCTCATCACAAACCAGTCTCCTTTTTACACTGCTATTGCATGAACTCATGGCAC	
101220 IS	[TA]		ATTATTTTGAAAATGTGAATAAAGTGCCATGAGTTCATGCAATAGCAGTGTAAAAAGGAG[TA]CTGGTTTGTGATGAGAGCAAGTAAATTTCAAGCAGAGCAAACCA ACTCAAGAAAATAAT	
101226 I		A	CCTCTCTGGGCTCAGATACCTGGGGCT	
101226 P	A	A	CGCGCCGAGGAGTGAAAGCGTCCAAGTY	
101226 P	G	A	ATGACGTGGCAGACGGTGAAAGCGTCCAAGY	
101226 T	A	A	CCAGACTTGGAGCGCTTTCACTGCCCCAGGTATCTGAGCCCAGAGAGGAA	
101226 T	G	A	CCAGACTTGGAGCGCTTCACCGCCCCAGGTATCTGAGCCCAGAGAGGAA	
101226 IS	[AG]		TACAGCCCAGGCACAGCCAGGTGGGCAGAGCCTTCCTCTCTGGGCTCAGATACCTGGGGC[AG]GTGAAGCGTCCAAGTCTGGACCGTGCACAGAGGCCACCCCGACCCTC GCCCAGCACCAC	
101229 I		S	CCCTCCATAGGCTGGGCCCAGGT	
101229 P	T	S	CGCGCCGAGGACATTCCTCCAAGAGGGY	
101229 P	C	S	ATGACGTGGCAGACGCATTCCTCCAAGAGGY	
101229 T	T	S	GAGCCCCTCTTGGAGGAATGTCCTGGCCCCAGCCTATGGAGGGCC	
101229 T	C	S	GAGCCCCTCTTGGAGGAATGCCCTGGCCCCAGCCTATGGAGGGCC	
101229 IS	[TC]		CCGGCTGTGGCACACGCTCTCTTCTTATTGTGACAGCAGAGCCCCTCTTGGAGGAATGTT[C]CCTGGCCCCAGCCTATGGAGGGCCCTTGCCAAGCCATCCCTGGTCCCT CTATCCCCAAG	
101231 I		S	GCTCTGAGTTTCGAGCAAATAGATTAATAGGACAGGTGTCCCCT	
101231 P	C	S	ATGACGTGGCAGACGGAAGGACACCTGGY	
101231 P	T	S	CGCGCCGAGGAGGAAGGACACCTGGY	
101231 T	C	S	CAGGCCAGGTGTCCTTCCCGGGGACACCTGTCCTATTAATCTATTTGCTCAAACTCAGAGCCT	
101231 T	T	S	CAGGCCAGGTGTCCTTCCTGGGGACACCTGTCCTATTAATCTATTTGCTCAAACTCAGAGCCT	
101231 IS	[CT]		TCAGATCCCTGCAAGGCGAGCTGAATGCCAGGAACCAGCTTACAGGCCAGGTGTCCTCC[CT]GGGGACACCTGTCCTATTAATCTATTTGCTCAAACTCAGAGCCTGCCT CTCCGCTCATT	
101233 I		S	TGAGGCCAAATAGAGCGTTAAAGACCCAAAGTGTCAT	
101233 P	C	S	ATGACGTGGCAGACGTCAATGGTGTTGGTCAAT	
101233 P	T	S	CGCGCCGAGGATCAATGGTGTTGGTCAATY	
101233 T	C	S	AATGATTGACCAACACCATTGACTGACACTTTTGGGTCTTTAACGCTCTATTTGGCCTCACA	
101233 T	T	S	AATGATTGACCAACACCATTGATTGACACTTTTGGGTCTTTAACGCTCTATTTGGCCTCACA	
101233 IS	[CT]		CAGAAATATTCTTTGCAGAGCAAACCTGCAATTGAAACAATGATTGACCAACACCATTGA[CT]TGACACTTTTGGGTCTTTAACGCTCTATTTGGCCTCACATACTTGGG CTCATTCACATTT	
101236 I		A	CAGGAAGGTGGCCATTCTCACCTTTCCCAATCT	
101236 P	A	A	CGCGCCGAGCAAAACAGTTACTCCTAGGAGTY	
101236 P	C	A	ATGACGTGGCAGACCAAACAGTTACTCCTAGGAGY	
101236 T	A	A	GGGGACTCCTAGGAGTAACTGTTTGATGGGAAAGGTGAGAATGGCCACCTTCCTGAC	
101236 T	C	A	GGGGACTCCTAGGAGTAACTGTTTGGATGGGAAAGGTGAGAATGGCCACCTTCCTGAC	
101236 IS	[AC]		TTCTCCTCTGTAATGAGTTCTCTAGAGTCAGGAAGGTGGCCATTCTCACCTTTCCCAATC[AC]AAACAGTTACTCCTAGGAGTCCCCTATTGATCTCTCTGCTCTCTCTCC ACCCACCTTTA	
101261 I		S	CCTATTTGGTAAAACAGCCCTGAGCTGCTGCAC	
101261 P	A	S	CGCGCCGAGGTGTGGTGATGATTATCCGY	

FIGURE 129C



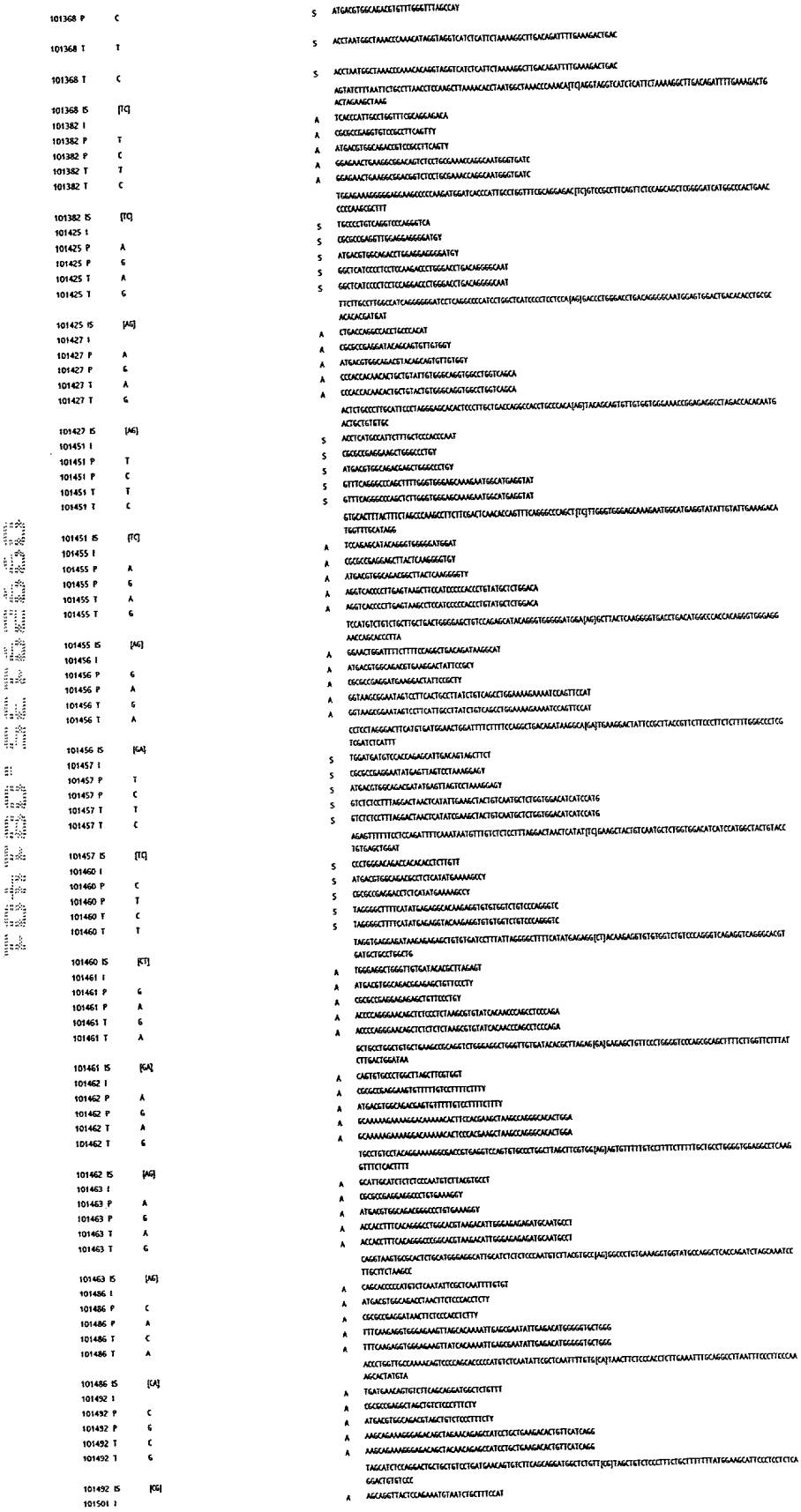

101368 P C
101368 T T
101368 T C
101368 IS [TC]
101382 I
101382 P T
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101427 I
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A CGCGCCGAGGATGAAGGACTATTCCGCTY
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S ATGACGTGGCAGACGATATGAGTTAGTCCTAAAGGAGY
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A CGCGCCGAGGCTAGCTGTCTCCCTTTCTY
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A AAGCAGAAAGGGAGACAGCTACAACAGAGCCATCCTGCTGAAGACACTGTTCATCAGG
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FIGURE 129C

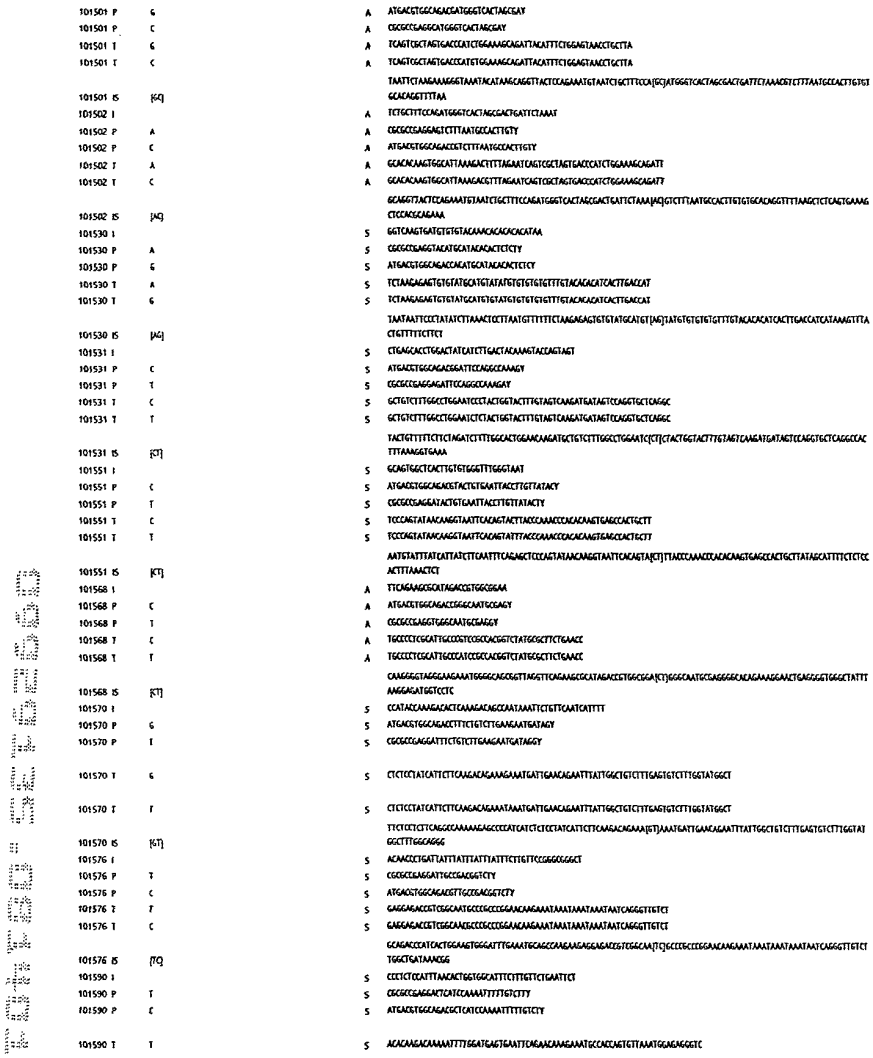

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101501 P C A CGCGCCGAGGCATGGGTCACTAGCGAY
101501 T G A TCAGTCGCTAGTGACCCATCTGGAAAGCAGATTACATTTCTGGAGTAACCTGCTTA
101501 T C A TCAGTCGCTAGTGACCCATGTGGAAAGCAGATTACATTTCTGGAGTAACCTGCTTA
101501 IS [GC] TAATTCTAAGAAAGGGTAAATACATAAGCAGGTTACTCCAGAAATGTAATCTGCTTTCCA[GC]ATGGGTCACTAGCGACTGATTCTAAACRTCTTTAATGCCCACTTGTGT GCACAGGTTTTAA
101502 I A TCTGCTTTCCAGATGGGTCACTAGCGACTGATTCTAAAT
101502 P A A CGCGCCGAGGAGTCTTTAATGCCACTTGTY
101502 P C A ATGACGTGGCAGACCCTCTTTAATGCCACTTGTY
101502 T A A GCACACAAGTGGCATTAAAGACTTTTAGAATCAGTCGCTAGTGACCCATCTGGAAAGCAGATT
101502 T C A GCACACAAGTGGCATTAAAGACGTTTAGAATCAGTCGCTAGTGACCCATCTGGAAAGCAGATT
101502 IS [AC] GCAGGTTACTCCAGAAATGTAATCTGCTTTCCAGATGGGTCACTAGCGACTGATTCTAAA[AC]GTCTTTAATGCCACTTGTGTGCACAGGTTTTAAGCTCTCAGTGAAAG CTCCACGCAGAAA
101530 I S GGTCAAGTGATGTGTGTACAAACACACACACATAA
101530 P A S CGCGCCGAGGTACATGCATACACACTCTCTY
101530 P G S ATGACGTGGCAGACACATGCATACACACTCTCY
101530 T A S TCTAAGAGAGTGTGTATGCATGTATATGTGTGTGTTTGTACACACATCACTTGACCAT
101530 T G S TCTAAGAGAGTGTGTATGCATGTGTATGTGTGTGTTTGTACACACATCACTTGACCAT
101530 IS [AG] TAATAATTCCCTATATCTTAAACTCCTTAATGTTTTTTCTAAGAGAGTGTGTATGCATGT[AG]TATGTGTGTGTTTGTACACACATCACTTGACCATCATAAAGTTTA CTGTTTTCTTCT
101531 I S CTGAGCACCTGGACTATCATCTTGACTACAAAGTACCAGTAGT
101531 P C S ATGACCTGGCAGACGGAATTCCAGCCAAAGY
101531 P T S CGCGCCGAGGAGATTCCAGGCCAAGAY
101531 T C S GCTGTCTTTGGCCTGGAATCCCTACTGGTACTTTGTAGTCAAGATGATAGTCCAGGTGCTCAGGC
101531 T T S GCTGTCTTTGGCCTGGAATCTCTACTGGTACTTTGTAGTCAAGATGATAGTCCAGGTGCTCAGGC
101531 IS [CT] TACTGTTTTCTTCTCTAGATCTTTTGGCACTGGAACAAGATGCTGTCTTTGGCCTGGAATC[CT]CTACTGGTACTTTGTAGTCAAGATGATAGTCCAGGTGCTCAGGCCAC TTTAAAGGTGAAA
101551 I S GCAGTGGCTCACTTGTGTGGGTTTGGGTAAT
101551 P C S ATGACGTGGCAGACGTACTCTGAATTACCTTGTTATACY
101551 P T S CGCGCCGAGGATACTGTGAATTACCTTGTTATACTY
101551 T C S TCCCAGTATAACAAGGTAATTCACAGTACTTACCCAAACCCACACAAGTGAGCCACTGCTT
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101551 IS [CT] AATGTATTTATCATTATCTTCAATTTCAGAGCTCCCAGTATAACAAGGTAATTCACAGTA[CT]TTACCCAAACCCACACAAGTGAGCCACTGCTTATAGCATTTTCTCTCC ACTTTAAACTCT
101568 I A TTCAGAAGCGCATAGACCGTGGCGGAA
101568 P C A ATGACGTGGCAGACCGGCCAATGCGAGY
101568 P T A CGCGCCGAGGTGGCAATGCGAGGY
101568 T C A TGCCCCTCGCATTGCCCGTCCGCCACGGTCTATGCGCTTCTGAACC
101568 T T A TGCCCCTCGCATTGCCCATCCGCCACGGTCTATGCGCTTCTGAACC
101568 IS [CT] CAAGGGGTAGGGAAGAAATGGGGCAGCGGTTAGTTCAGAAGCGCATAGACCGTGGCGGA[CT]GGGCAATGCGAGGGGCACAGAAAGGAACTGAGGGGTGGGCTATTT AAGGAGATGGTCCTC
101570 I S CCATACCAAAGACACTCAAAGACAGCCAATAAATTCTGTTCAATCATTTT
101570 P G S ATGACGTGGCAGACCTTCTGTCTTGAAGAATGATAGY
101570 P T S CGCGCCGAGGATTTCTGTCTTGAAGAATGATAGGY
101570 T G S CTCTCCTATCATTCTTCAAGACAGAAAGAAATGATTGAACAGAATTTATTGGCTGTCTTTGAGTGTCTTTGGTATGGCT
101570 T T S CTCTCCTATCATTCTTCAAGACAGAAATAAATGATTGAACAGAATTTATTGGCTGTCTTTGAGTGTCTTTGGTATGGCT
101570 IS [GT] TTCTCCTCTTCAGGCCAAAAAGAGCCCCATCATCTCTCCTATCATTCTTCAAGACAGAAA[GT]AAATGATTGAACAGAATTTATTGGCTGTCTTTGAGTGTCTTTGGTAT GGCTTTGGCAGGG
101576 I S ACAACCCTGATTATTTATTTATTTATTTCTTGTTCCGGGCGGGCT
101576 P T S CGCGCCGAGGATTGCCGACGGTCTY
101576 P C S ATGACGTGGCAGACGTTGCCGCAGGTCTY
101576 T T S GAGGAGACCGTCGGCAATGCCCGCCCGGAACAGAGAAATAAATAAATAAATAATCAGGGTTGTCT
101576 T C S GAGGAGACCGTCGGCAACGCCCGCCCGGAACAGAGAATAAATAAATAAATAATCAGGGTTGTCT
101576 IS [TC] GCAGACCCATCACTGGAAGTGGGATTTGAAATGCAGCCAAGAAGAGAGACCG7GGACAA[TC]GCCCGCCCGGAACAAGAAATAAATAAATAAATAATCAGGGTTGTCT TGGCTGATAAACGG
101590 I S CCCTCTCCATTTAACACTGGTGGCATTCTTTGTTCTGAATTCT
101590 P T S CGCGCCGAGGACTCATCCAAAATTTTTGTCTTY
101590 P C S ATGACGTGGCAGACGCTCATCCAAAATTTTTGTCTY
101590 T T S ACACAAGACAAAAATTTTGGATGAGTGAATTCAGAACAAAGAAATGCCACCAGTGTTAAATGGAGAGGGTC
101590 T C S ACACAAGACAAAAATTTTGGATGAGCGAATTCAGAACAAAGAAATGCCACCAGTGTTAAATGGAGAGGGTC
101590 IS [TC] ATAAAGCCATTCGGGATCCTTTTCAGCCACTAGATACACAGACAAAATTTTGGATGAG[TC]GAATTCAGAACAAAGAAATGCCACCAGTGTTAAATGGAGAGGGTCA AAGCAGGAGAGGG
101608 I S GTGTATTGTGAGGGTGGAGCACATGGGTGTTT
101608 P T S CGCGCCGAGGAGAGTGGTGCTCCTTGAY
101608 P C S ATGACGTGGCAGACGAGAGTGGTGCTCCTTGAY
101608 T T S ATGATCAAGAGCACCACTCTTAACACCCATGTGCTCCACCCTCACAATACACCA
101608 T C S ATGATCAAGAGCACCACTCTCAACACCCATGTGCTCCACCCTCACAATACACCA
101608 IS [TC] ATGGCACCTCCTCTGGGGCTGGTAGAATTGCTATTTGTCCATGATCAAGAGCACCACTCT[TC]AACACCCATGTGCTCCACCCTCACAATACACCATCATTATTGGGCCAG ATAGCGGGGCTT
101615 I S TTTCAAATAATAACAGATGAGAATCCTCCTGATATGCTTATTAAAATAGAATTAGAGTATT
101615 P C S ATGACGTGGCAGAGTTCTCCCTATTTTATAAGGTTATACY
101615 P T S CGCGCCGAGGATTCTCCCTATTTTATAAGGTTATACCY
101615 T C S GGAAGGTATAACCTTATAAAATAGGGAGAACATACTCTAATTCTATTTTAATAAGCATATCAGGAGGATTCTCATCTGTTATTATTTGAAA
101615 T T S GGAAGGTATAACCTTATAAAATAGGGAGAATATACTCTAATTCTATTTTAATAAGCATATCAGGAGGATTCTCATCTGTTATTATTTGAAA
101615 IS [CT] GTGATCAAAGGATAACCAGTGGGAAAAGAGGAAGGTATAACCTTATAAAATAGGGAGAA[CT]ATACTCTAATTCTATTTTAATAAGCATATCAGGAGGATTCTCATC TGTTATTATTTGAAA
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101713 P T S CGCGCCGAGGAGACTGGGATAATGAAGAAAATAY
101713 P C S ATGACGTGGCAGACGGACTGGGATAATGAAGAAAAY
101713 T T S GTTTTATTTTCTTCATTATCCAGTCTCCCTTAGAGGAAGAACCAGTTACTTAATTGTTTCTATGTGTGTG
101713 T C S GTTTTATTTTCTTCATTATCCCAGTCCCCCTTAGAGGAAGAACCAGTTACTTAATTGTTTCTATGTGTGTG
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101815 I S TATATAGTCTCTCTTTTATAAAACCAACCACATGCCATATATAATAATTTCATAAAGATATT
101815 P T S CGCGCCGAGGACATTACAACTTAAGGAACAGTY
101815 P C S ATGACGTGGCAGAGCCATTACAACTTAAGGAACAGY
101815 T T S AGCAACTGTTCCTTAAGTTGTAATGTATATCTTTATGAAATTATATATATGGCATGTGGTTGGTTTTATAAAAGAGAGACTATATA
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FIGURE 129C

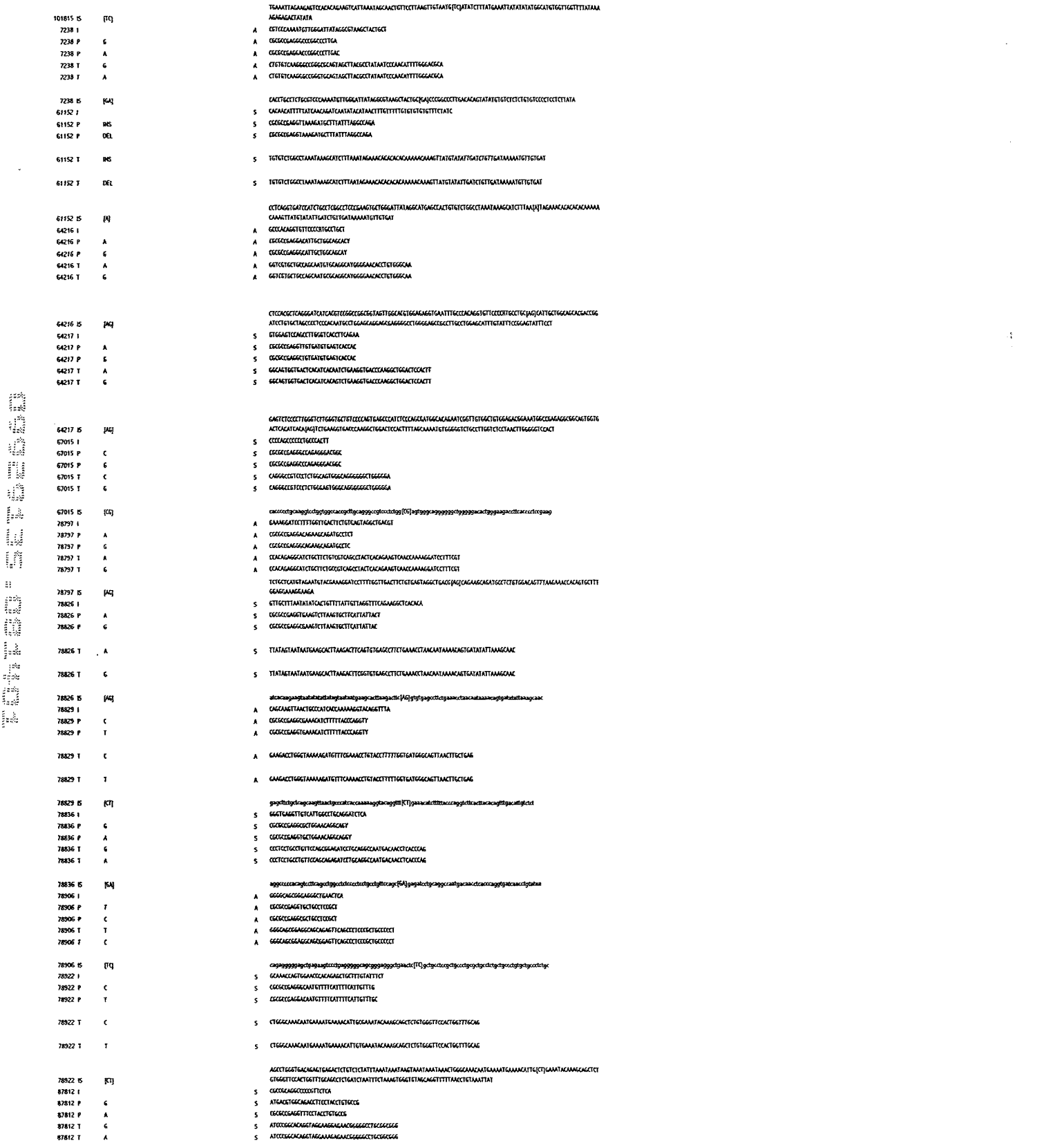

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GAAAGGATCCTTTGGTTGACTTCTGTGAGTAGGCTGACG
CGCGCCGAGGACAGAAGCAGATGCCTC
CCACAGAGGCATCTGCTTCTGCGTCAGCCTACTCACAGAAGTCAACCAAAAGGATCCTTTCGT
CCACAGAGGCATCTGCTTCTGCGTCAGCCTACTCACAGAAGTCAACCAAAAGGATCCTTTCGT
TCTGCTCATGTAGAATGTACGAAAGGATCCTTTTGGTTGACTTCTGTGAGTAGGCTGACG[AG]CAGAAGCAGATGCCTCTGTGGACAGTTTAAGAAACCACAGTGCTTT
GGAGGAAGGAAGA
GTTGCTTTAATATATCACTGTTTTATTGTTAGGTTTCAGAAGGCTCACACA
CGCGCCGAGGTGAAGTCTTAAGTGCTTCATTATTACT
CGCGCCGAGGCGAAGTCTTAAGTGCTTCATTATTAC
TTATAGTAATAATGAAGCACTTAAGACTTCAGTGTGAGCCTTCTGAAACCTAACAATAAAACAGTGATATATTAAAGCAAC
TTATAGTAATAATGAAGCACTTAAGACTTCGGTGTGAGCCTTCTGAAACCTAACAATAAAACAGTGATATATTAAAGCAAC
atcacaagaagtaatatatatatatagtaatgaagcacttaagacttc[AG]gtgtgagcctctgaaacctaacaataaaacagtgatatatttaaagcaac
CAGCAAGTTAACTGCCCATCACCAAAAAGGTACAGGTTTA
CGCGCCGAGGCGAAACATCTTTTTACCCAGGTY
CGCGCCGAGGTGAAACATCTTTTTACCCAGGTY
GAAGACCTGGGTAAAAAGATGTTTCGAAACCTGTACCTTTTTGGTGATGGGCAGTTAACTTGCTGAG
GAAGACCTGGGTAAAAAGATGTTTCAAAACCTGTACCTTTTTGGTGATGGGCAGTTAACTTGCTGAG
gagcttctgctcagcaggttaactgcccatcacaaaaaggtacaggttt[CT]gaaaacatcttttacccaggctttacttacacagtttgacattgtctct
GGGTGAGGTTGTCATTGGCCTGCAGGATCTCA
CGCGCCGAGGCGCTGGAACAGGCAGY
CGCGCCGAGGYGCTGGAACAGGCAGGY
CCCTCCTGCCTGTTCCAGCGGAGATCCTGCAGGCCAATGACAACCTCACCCAG
CCCTCCTGCCTGTTCCAGCAGAGATCCTGCAGGCCAATGACAACCTCACCCAG
aggcccccacagtcctcagcctggcctcccctctgcctgttccagc[GA]gagatcctgcaggccaatgacaacctcacccaggtgatcaacctgtatca
GGGGCAGCGGCAGGGCTGAACTCA
CGCGCCGAGGTGCTGCCTCCGCT
CGCGCCGAGGCGCTGCCTCCGCT
GGGCAGCGGAGGCAGCAGAGTTCAGCCTCCCGCTGCCCCCT
GGGCAGCGGAGGCAGCGGAGTTCAGCCTCCCGCTGCCCCCT
cagaggggagctgagaagtcccbgaggggcagcgggagggctgaaactc[TC]gctgcctccgctgccctgcgctgcctctgctgccctgtgctgccctctgc
GCAAACCAGTGGAACTCACAGAGCTGCTTTGTATTTCT
CGCGCCGAGGCCAATGTTTTCATTTTCATTGTTTG
CGCGCCGAGGCCAATGTTTTCATTTTCATTGTTTG
CTGGGCAAACAATGAAAATGAAAACATTGCGAAATACAAAGCAGCTCTGTGGGTTCCACTGGTTTGCAG
CTGGGCAAACAATGAAAATGAAAACATTGTGAAATACAAAGCAGCTCTGTGGGTTCCACTGGTTTGCAG
AGCCTGGGTGACAGAGTGAGACTCTGTCTCTATTTAAATAAATAAGTAAATAAATAAACTGGGCAAACAATGAAAATGAAAACATTG[CT]GAAATACAAAGCAGCTCT
GTGGGTTCCACTGGTTTGCAGCCTCTGATCTAATTTCTAAAGTGGGTGTAGCAGGTTTTTAACCTGTAAATTAT
CGCCGCAGGCCCCCGTTCTCA
ATGACGTGGCAGACCTTCCTACCTGTGCCG
CGCGCCGAGGTTTCCTACCTGTGCCG
ATCCCGGCACAGGTAGCAAGAGAACGGGGGCCTGCGGCGGG
ATCCCGGCACAGGTAGCAAAGAGAACGGGGGCCTGCGGCGGG

FIGURE 129C

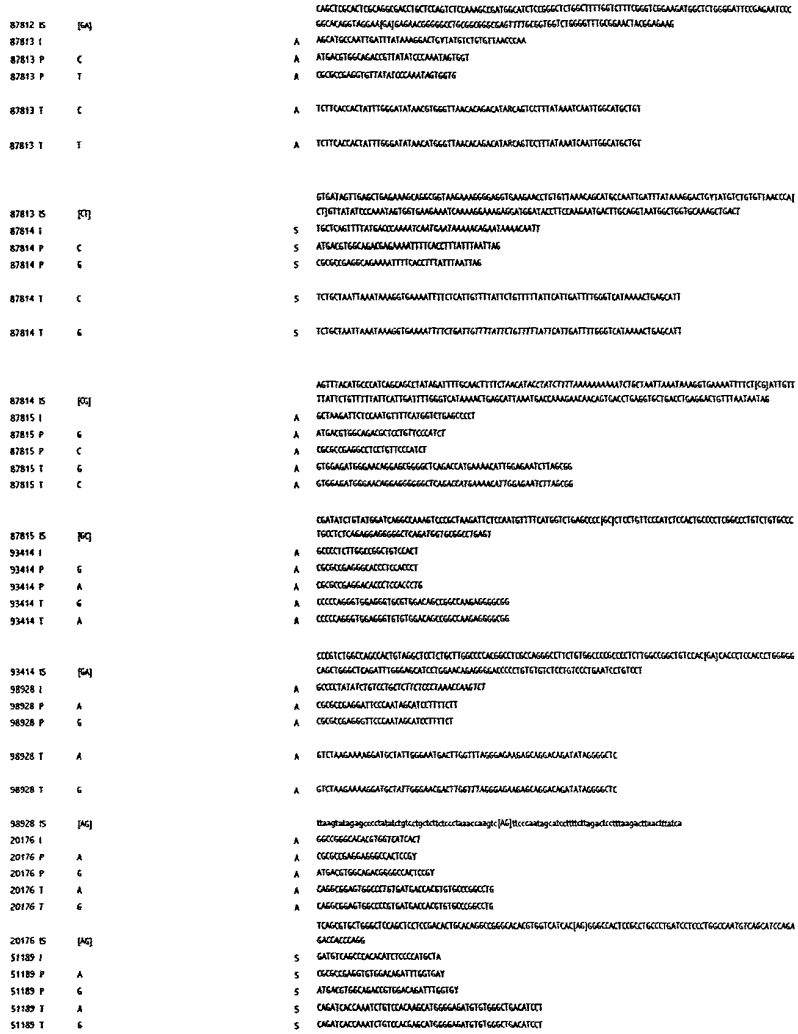
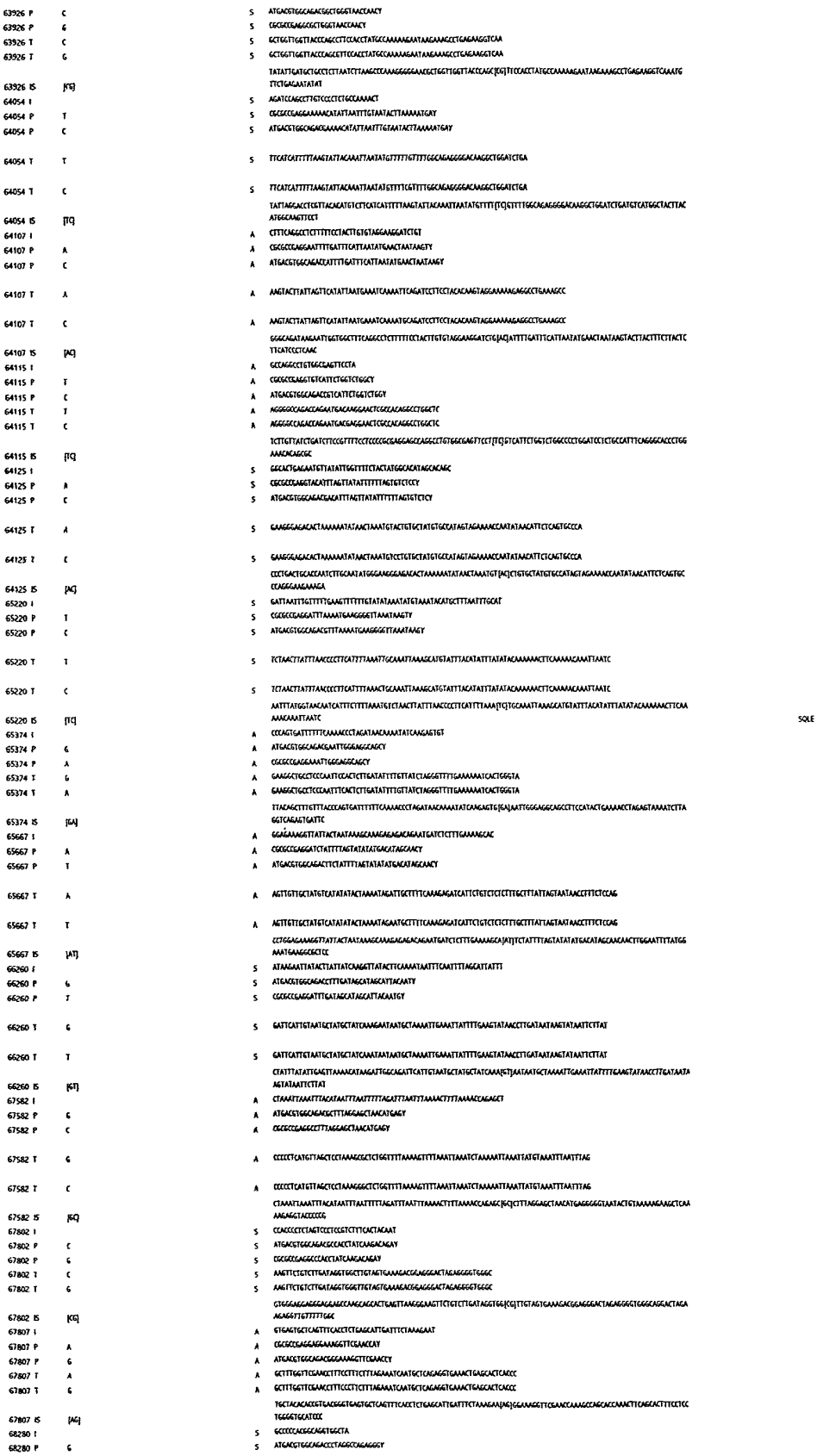
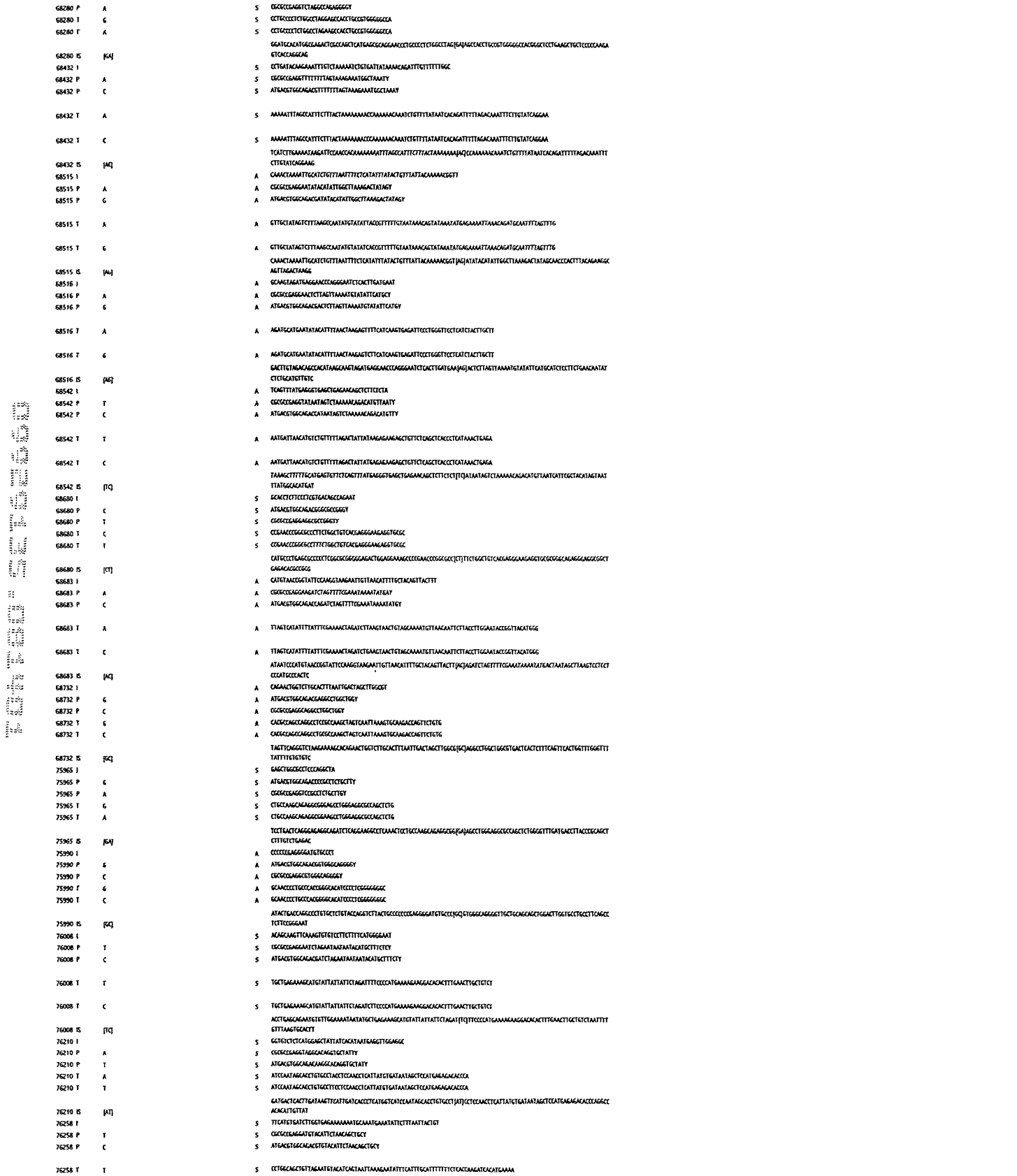
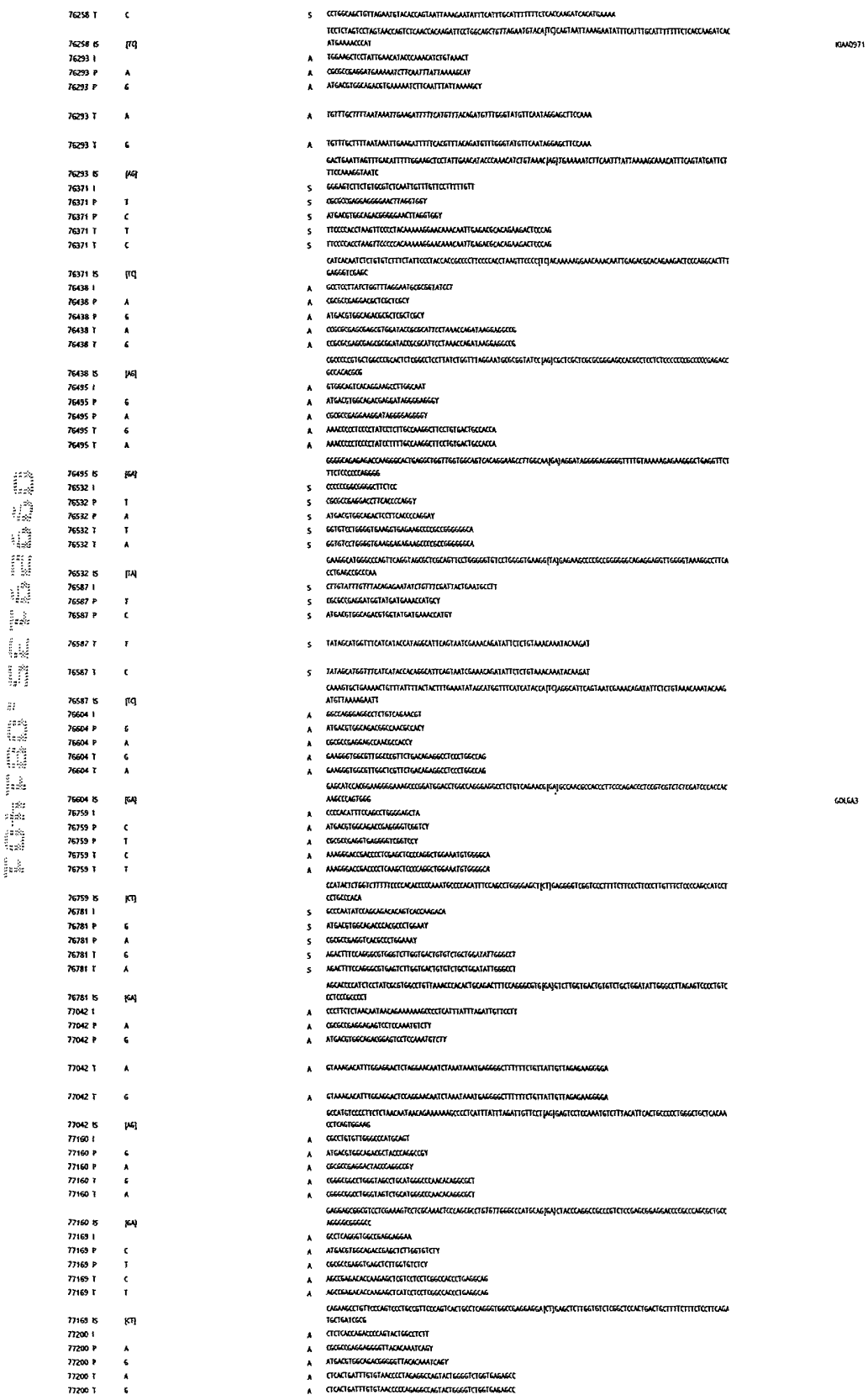
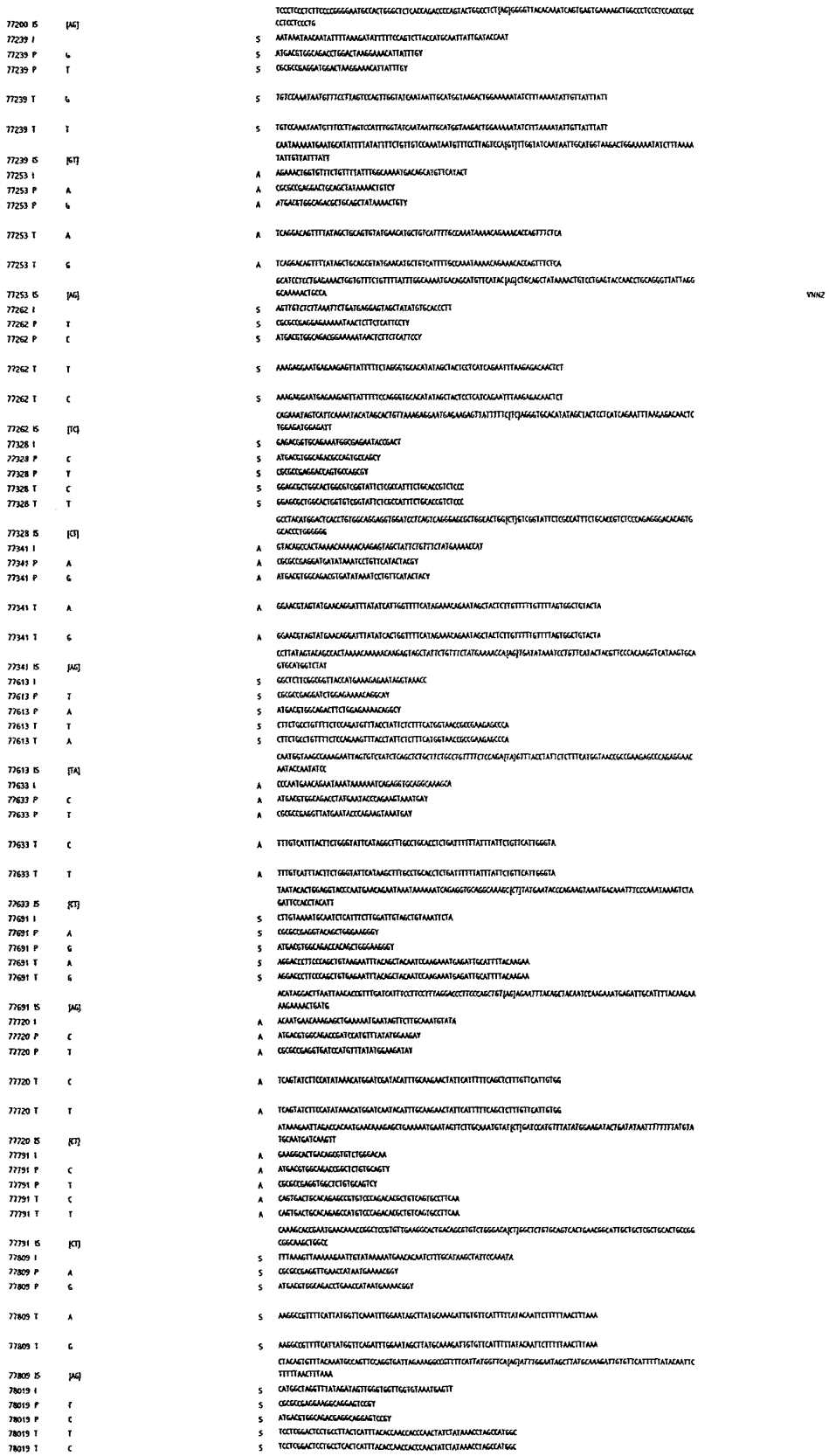


FIGURE 129C




68280 P A S GGCGCCGAGGTCTAGGCCACAGAGGGGY
68280 T G S CCTGCCCCTCTGGCCTAGGAGCCACCTGCCGTGGGGGCCA
68280 T A S CCTGCCCCTCTGGCCTAGAAGCCACCTGCCGTGGGGGCCA
68280 IS [GA] GGATGCACATGGCCAGACTGGCCAGCTCATGAGCGCAGGAACCCTGCCCCTCTGGCCTAG[GA]AGCCACCTGCCGTGGGGGCCACGGGCTCCTGAAGCTGCTCCCCCAAGA GTCACCAGGCAG
68432 I S CCTGATACAAGAAATTTGTCTAAAAATCTGTGATTATAAAACAGATTTGTTTTTTGGC
68432 P A S GGCGCCGAGGTTTTTTTTAGTAAAGAAATGGCTAAATY
68432 P C S ATGACGTGGCAGACGTTTTTTTAGTAAAGAAATGGCTAAAY
68432 T A S AAAAATTTAGCCATTTCTTTACTAAAAAAACCAAAAAACAAATCTGTTTTATAATCACAGATTTTTAGACAAATTTCTTGTATCAGGAA
68432 T C S AAAAATTTAGCCATTTCTTTACTAAAAAAACCCAAAAAACAAATCTGTTTTATAATCACAGATTTTTAGACAAATTTCTTGTATCAGGAA
68432 IS [AC] TCATCTTGAAAATAAGATTCCAACCACAAAAAAAATTTAGCCATTTCTTTACTAAAAAAA[AC]CCAAAAAACAAATCTGTTTTATAATCACAGATTTTTAGACAAATTT CTTGTATCAGGAAG
68515 I A CAAACTAAAATTGCATCTGTTAATTTTCTCATATTTATACTGTTTATTACAAAAACGGTT
68515 P A A CGCGCCGAGGAATATACATATTGGCTAAAGACTATAGY
68515 P G A ATGACGTGGCAGACGATATACATATTGGCTTAAAGACTATAGY
68515 T A A GTTGCTATAGTCTTTAAGCCAATATGTATATTACCGTTTTTGTAATAAACAGTATAAATATGAGAAAATTAAACAGATGCAATTTTAGTTTG
68515 T G A GTTGCTATAGTCTTTAAGCTAATATGTATATCACCGTTTTTGTAATAAACAGTATAAATATGAGAAAATTAAACAGATGCAATTTTAGTTTG
68515 IS [AG] CAAACTAAAATTGCATCTGTTTAATTTTCTCATATTTATACTGTTTATTACAAAAACGGT[AG]ATATACATATTGGCTTAAAGACTATAGCAACCCACTTTACAGAAGGC AGTTAGACTAAGG
68516 I A GCAGTAGATGAGGAACCCAGGGAATCTCACTTGATGAAT
68516 P A A CGCGCCGAGGAACTCTTAGTTAAAATGTATATTCATGCY
68516 P G A ATGACGTGGCAGACGACTCTTAGTTAAAATGTATATTCATGY
68516 T A A AGATGCATGAATATACATTTTAACTAAGAGTTTCATCAAGTGAGATTCCCTGGGTTCCTCATCTACTTGCTT
68516 T G A AGATGCATGAATATACATTTTAACTAAGAGTCTTCATCAAGTGAGATTCCCTGGGTTCCTCATCTACTTGCTT
68516 IS [AG] GACTTGTAGACAGCCACATAAGCAAGTAGATGAGGAACCCAGGGAATCTCACTTGATGAA[AG]ACTCTTAGTTAAAATGTATATTCATGCATCCTCCTTCTGAACAATAT CTCTGCATGTTGTC
68542 I A TCAGTTTATGAGGGTGAGCTGAGAACAGCTCTTCTCTA
68542 P T A CGCGCCGAGGTATAATAGTCTAAAAACAGACATGTTAATY
68542 P C A ATGACGTGGCAGACCATAATAGTCTAAAAACAGACATGTTY
68542 T T A AATGATTAACATGTCTGTTTTTAGACTATTATAAGAGAAGAGCTGTTCTCAGCTCACCCTCATAAACTGAGA
68542 T C A AATGATTAACATGTCTGTTTTTAGACTATTATGAGAGAAGAGCTGTTCTCAGCTCACCCTCATAAACTGAGA
68542 IS [TC] TAAAGCTTTTTGCATGAGTGTTCTCAGTTTATGAGGGTGAGCTGAGAACAGCTCTTCTCT[TC]ATAATAGTCTAAAAACAGACATGTTAATCATTCGCTACATAGTAAT TTATGGCACATGAT
68680 I S GCACTCTCTCCCTCGTGACAGCCAGAAT
68680 P C S ATGACGTGGCAGACGGCGCCGGGY
68680 P T S CGCGCCGAGGAGGCGCCGGGTY
68680 T C S CCGAACCGGGCGCCCTTCTGGCTGTCACGAGGGAAGAGGTGCGC
68680 T T S CCGAACCGGGCGCTTTTCTGGCTGTCACGAGGGAAGAGGTGCGC
68680 IS [CT] CATGCCCTGAGCGCCCCCTCGGCGCGGGGGAGACTGGAGGAAAGCCCCGAACCCGGCGCC[CT]TTCTGGCTGTCACGAGGGAAGAGGTGCGCGGGCAGAGGGAGGCGGCT GAGACACGCCCGG
68683 I A CATGTAACCGGTATTCCAAGGTAAGAATTGTTAACATTTTGCTACAGTTACTTT
68683 P A A CGCGCCGAGGAAGATCTAGTTTTCGAAATAAAATATGAT
68683 P C A ATGACGTGGCAGACAGATCTAGTTTTCGAAATAAAATATGY
68683 T A A TTAGTCATATTTTATTTCGAAAACTAGATCTTAAGTAACTGTAGCAAAATGTTAACAATTCTTACCTTGGAATACCGGTTACATGGG
68683 T C A TTAGTCATATTTTATTTCGAAAACTAGATCTGAAGTAACTGTAGCAAAATGTTAACAATTCTTACCTTGGAATACCGGTTACATGGG
68683 IS [AC] ATAATCCCATGTAACCGGTATTCCAAGGTAAGAATTGTTAACATTTTGCTACAGTTACTT[AC]AGATCTAGTTTTCGAAATAAAATATGACTAATAGCTTAAGTCCTCCT CCCATGCCCACTC
68732 I A CAGAACTGGTCTTGCACTTTAATTGACTAGCTTGCGGT
68732 P G A ATGACGTGGCAGACGAGGCCTGGCTGGY
68732 P C A CGCGCCGAGGCAGGCCTGGCTGGY
68732 T G A CACGCAGCCAGGCCTCCGCCAAGCTAGTCAATTAAAGTGCAAGACCAGTTCTGTG
68732 T C A CACGCAGCCAGGCCTGCGCCAAGCTAGTCAATTAAAGTGCAAGACCAGTTCTGTG
68732 IS [GC] TAGTTCAGGGTCTAAGAAAAGCACAGAACTGGTCTTGCACTTTAATTGACTAGCTTGGCG[GC]AGGCCTGGCTGGGGTGACTCACTCTTTCAGTTCACTGGTTTGGGTTT TATTTTGTGTGTC
75965 I S GAGCTGGCGCCTCCCAGGCTA
75965 P G S ATGACGTGGCAGACCCCGCCTCTGCTTY
75965 P A S CGCGCCGAGGTCCGCCTCTGCTTGY
75965 T G S CTGCCAAGCAGAGGCGGGAGCCTGGGAGGCGCCAGCTCTG
75965 T A S CTGCCAAGCAGAGGCGGAAGCCTGGGAGGCGCCAGCTCTG
75965 IS [GA] TCCTGACTCAGGGCAGAGGCAGATCTCAGGAAGGCCTCAAACTCCTGCCAAGCAGAGGCGG[GA]AGCCTGGGAGGCGCCAGCTCTGGGGTTTGATGACCTTACCCGCAGCT CTTTGTCTGAGAC
75990 I A CCCCCCGAGGGGATGTGCCCT
75990 P G A ATGACGTGGCAGACGGTGAGGCAGGGGY
75990 P C A CGCGCCGAGGCCGTGAGGCAGGGGY
75990 T G A GCAACCCCTGCCCACCGGGGCACATCCCCTGGGGGGGC
75990 T C A GCAACCCCTGCCCACCGGGGCACATCCCCTGGGGGGGC
75990 IS [GC] ATACTGACCAGGCCCTGTGCTCTGTACAGGTCTTACTGCCCCCCCCAGGGGATGTGCCC[GC]GTGGGCAGGGGTTGCTGCAGCAGCTGGACTTGGTGCCTGCCTTCAGCC TCTTCCGGGAAT
76008 I S ACAGCAAGTTCAAAGTGTGTCCTTCTTTTCATGGGGAAT
76008 P T S CGCGCCGAGGAATCTAGAATAATAATACATGCTTTCCCY
76008 P C S ATGACGTGGCAGACGATCTAGAATAATAATACATGCTTTCCY
76008 T T S TGCTGAGAAAGCATGTATTATTATTCTAGATTTTCCCCATGAAAAGAAGGACACACTTTGAACTTGCTGTCT
76008 T C S TGCTGAGAAAGCATGTATTATTATTCTAGATCTTCCCCATGAAAAGAAGGACACACTTTGAACTTGCTGTCT
76008 IS [TC] ACCTGAGCAGAATGTGTTGGAAAATAATATGCTGAGAAAGCATGTATTATTATTCTAGAT[TC]TTCCCCATGAAAAGAAGGACACACTTTGAACTTGCTGTCTAATTTT GTTTAAGTGCACTT
76210 I S GGTGTCTCTCATGGAGCTATTATCACATAATGAGGTTGGAGGC
76210 P A S CGCGCCGAGGTAGGCACAGGTGCTATTY
76210 P T S ATGACGTGGCAGACAAGGCACAGGTGCTATY
76210 T A S ATCCAATAGCAACCTGTGCCTACCTCCAACCTCATTATGTGATAATAGCTCCATGAGAGACACCCA
76210 T T S ATCCAATAGCAACCTGTGCCTTCCTCCAACCTCATTATGTGATAATAGCTCCATGAGAGACACCCA
76210 IS [AT] GATGACTCACTTGATAAGTTCATTGATCACCCTCATGGTCATCCAATAGCACCTGTGCCT[AT]CCTCCAACCTCATTATGTGATAATAGCTCCATGAGAGACACCCAGGCC ACACATTGTTAT
76258 I S TTCATGTGATCTTGGTGAGAAAAAAATGCAAATGAAATATTCTTTAATTACTGT
76258 P T S CGCGCCGAGGATGTACATTCTAACAGCTGCY
76258 P C S ATGACGTGGCAGACGTGTACATTCTAACAGCTGCY
76258 T T S CCTGGCAGCTGTTAGAATGTACATCAGTAATTAAAGAATATTTCATTTGCATTTTTTTCTCACCAAGATCACATGAAAA


76258 T C S CCTGGCAGCTGTTAGAATGTACACCAGTAATTAAAGAATATTTCATTTGCATTTTTTTCTCACCAAGATCACATGAAAA
76258 IS [TC] TCCTCTAGTCCTAGTAACCAGTCTCAACCACAAGATTCCTGGCAGCTGTTAGAATGTACA[TC]CAGTAATTAAAGAATATTTCATTTGCATTTTTTTCTCACCAAGATCAC ATGAAAACCCAT KIAA0971
76293 I A TGGAAGCTCCTATTGAACATACCCAAACATCTGTAAACT
76293 P A A CGGCCGAGGATGAAAAATCTTCAATTTATTAAAAGCAY
76293 P G A ATGACGTGGCAGACGTGAAAAATCTTCAATTTATTAAAAGCY
76293 T A A TGTTTGCTTTTAATAAATTGAAGATTTTTCATGTTACAGATGTTTGGGTATGTTCAATAGGAGCTTCCAAA
76293 T G A TGTTTGCTTTTAATAAATTGAAGATTTTTCACGTTTACAGATGTTTGGGTATGTTCAATAGGAGCTTCCAAA
76293 IS [AG] GACTGAATTAGTTTGACATTTTTGGAAGCTCCTATTGAACATACCCAAACATCTGTAAAC[AG]TGAAAAATCTTCAATTTATTAAAAGCAAACATTTCAGTATGATTCT TTCCAAAGGTAATC
76371 I S GGGAGTCTTCTGTGCGTCTCAATTGTTTGTTCCTTTTTGTT
76371 P T S CGCGCCGAGGAGGGGAACTTAGGTGGY
76371 P C S ATGACGTGGCAGACGGGGAACTTAGGTGGY
76371 T T S TTCCCCACCTAAGTTCCCCTACAAAAAGGAACAAACAATTGAGACGCACAGAAGACTCCCAG
76371 T C S TTCCCCACCTAAGTTCCCCCACAAAAAGGAACAAACAATTGAGACGCACAGAAGACTCCCAG
76371 IS [TC] CATCACAATCTCTGTGTCTTTCTATTCCCTACCACCGCCCCTTCCCCACCTAAGTTCCCC[TC]ACAAAAAGGAACAAACAATTGAGACGCACAGAAGACTCCCAGGCACTTT GAGGGTCGAGC
76438 I A GCCTCCTTATCTGGTTTAGGAATGCGCGGTATCCT
76438 P A A CGCGCCGAGGAGCTCGCTCGCY
76438 P G A ATGACGTGGCAGACGGCTCGCTCGCY
76438 T A A CCGCGCGAGCGAGCCTGGATACTGCGCATTCCTAAACCAGATAAGGAGCCCG
76438 T G A CCGCGCGAGCGAGCGGGATACCGCGCATTCCTAAACCAGATAAGGAGCCCG
76438 IS [AG] CGCCCCCGTGCTGGCCCGCACTCTCGGCCTCCTTATCTGGTTTAGGAATGCGCGGTATCC[AG]CGCTCGCTCGCGCGGCAGCCACGCCTCCTCTCCCCCCGCCCCCGAGACC GCCACACGCG
76495 I A GTGGCAGTCACAGGAAGCCTTGGCAAT
76495 P G A ATGACGTGGCAGACGAGGATAGGGGAGGGY
76495 P A A CGCGCCGAGGAAGGATAGGGGAGGGY
76495 T G A AAACCCCTCCCCTATCTCTTGCCAAGGCTTCCTGTGACTGCCACCA
76495 T A A AAACCCCTCCCCTATCTTTTGCCAAGGCTTCCTGTGACTGCCACCA
76495 IS [GA] GGGGCAGAGAGACCAGGGGCACTGAGGCTGGTTGGTGGCAGTCACAGGAAGCCTTGGCAA[GA]AGGATAGGGGAGGGGGTTTTGTAAAAAGAGAAGGCTGAGTTCT TTCTCCCCCCAGGGG
76532 I S CCCCCCGGCGGGGCTTCTCC
76532 P T S CGCGCCGAGGACCTTCACCCCAGGY
76532 P A S ATGACGTGGCAGACTCCTTCACCCAGGAY
76532 T T S GGTGTCCTGGGGTGAAGGTGAGAAGCCCCCCCGGGGGGCA
76532 T A S GGTGTCCTGGGGTGAAGGACAGAAGCCCCCGCCGGGGGGCA
76532 IS [TA] GAAGGCATGGGCCCAGTTCAGGTAGCGCTCGCAGTTCCTGGGGGTGTCCTGGGGTGAAGG[TA]CAGAAGCCCCGCCGGGGGCAGAGGAGGTTGGGGTAAAGCCTTCA CCTGAGCCGCCCAA
76587 I S CTTGTATTTGTTTACAGAGAATATCTGTTTCGATTACTGAATGCCTT
76587 P T S CGCGCCGAGGATGGTATGATGAAACCATGCY
76587 P C S ATGACGTGGCAGACGTGGTATGATGAAACCATGY
76587 T T S TATAGCATGGTTTCATCATACCATAGGCATTCAGTAATCGAAACAGATATTCTCTGTAAACAAATACAAGAT
76587 T C S TATAGCATGGTTTCATCATACCACAGGCATTCAGTAATCGAAACAGATATTCTCTGTAAACAAATACAAGAT
76587 IS [TC] CAAAGTGCTGAAAACTGTTTATTTTACTACTTTGAAATATAGCATGGTTTCATCATACCA[TC]AGGCATTCAGTAATCGAAACAGATATTCTCTGTAAACAAATACAAG ATGTTAAAAGAATT
76604 I A GGCCAGGGAGGCCTCTGTCAGAACGT
76604 P G A ATGACGTGGCAGACGGCCAACGCCACY
76604 P A A CGCGCCGAGGAGCCAACGCCACCY
76604 T G A GAAGGGTGGCGTTGCCCGTTCTCAGACAGGCCTCCCTGGCCAG
76604 T A A GAAGGGTGGCGTTGGCTCGTTCTGACAGAGGCCTCCCTGGCCAG
76604 IS [GA] GAGCATCCAGGGAAGGGGAAAGCCCGGATGGACCTGGCCAGGGAGGCCTCTGTCAGAACG[GA]GCCAACGCCACCCTTCCCAGACCCTCCGTCGTCTCTGGATCCCACCAC AAGCCAGTGGG GOLGA3
76759 I A CCCCACATTTCCAGCCTGGGGCAGCTA
76759 P C A ATGACGTGGCAGACCGAGGGGTCGGTCY
76759 P T A CGCGCCGAGGTGAGGGGTCGGTCCY
76759 T C A AAAGGCACCGACCCCTCGAGCTCCCCAGGCTGGAAATGTGGGGCA
76759 T T A AAAGGGACCGACCCCTCAAGCTCCCCAGGCTGGAAATGTGGGGCA
76759 IS [CT] CCATACTCTGGTCTTTTCCCCACACCCCAAATGCCCCACATTCCAGCCTGGGGAGCT[CT]GAGGGGTCGGTCCCTTTCTTCCCTTCCCTTGTTTCTCCCCAGCCATCCT CCTGCCCACA
76781 I S GCCCAATATCCAGCAGACACAGTCACCAGACA
76781 P G S ATGACGTGGCAGACCCACGCCCTGAAAY
76781 P A S CGCGCCGAGGTCACGCCCTGGAAAY
76781 T G S AGACTTTCCAGGGCGTGGCTCTTGGTGACTGTGTCTGCTGGATATTGGGCCT
76781 T A S AGACTTTCCAGGGCGTGAGTCTTGGTGACTGTGTCTGCTGGATATTGGGCCT
76781 IS [GA] AGCACCCCATCTCCTATCGCGTGGCCTGTTAAACCCACACTGCAGACTTTCCAGGGGGTG[GA]CTCTTGGTGACTGTGTCTGCTGGATATTGGGCCTTAGAGTCCCCTGTC CCTCCGCCCCT
77042 I A CCCTTCTCTAACAATAACAGAAAAAAGCCCCTCATTTATTTAGATTGTTCCTT
77042 P A A CGCGCCGAGGAGAGTCCTCCAAATGTCTY
77042 P G A ATGACGTGGCAGACGGAGTCCTCCAAATGTCTY
77042 T A A GTAAAGACATTTGGAGGACTCTAGGAACAATCTAAATAAATGAGGGGCTTTTTTCTGTTATTGTTAGAGAAGGGGA
77042 T G A GTAAAGACATTTGGAGGACTCCAGGAACAATCTAAATAAATGAGGGGCTTTTTTCTGTTATTGTTAGAGAAGGGGA
77042 IS [AG] GCCATGTCCCCCTTCTCTAACAATAACAGAAAAAAGCCCCTCATTTATTTAGATTGTTCCT[AG]GAGTCCTCCAAATGTCTTCTTACATTCACTGCCCCCTGGGCTGCTCACAA CCTCAGTGGAAG
77160 I A CGCCTGTGTTGGGCCCATGCAGT
77160 P G A ATGACGTGGCAGACGCCTACCCAGCCGY
77160 P A A CGCGCCGAGGACTACCCAGCCGY
77160 T G A CGGGCGGCCTGGGTAGCCTGCATGGGCCCAACACAGGCGCT
77160 T A A CGGGCGGCCTGGGTAGTCTGCATGGGCCCAACACAGGCGCT
77160 IS [GA] GAGGAGCGGCGTCCTCGAAAGTCCTCGCAAACTCCCAGCGCCTGTGTTGGGCCCATGCAG[GA]CTACCCAGCCGCCCGTCTCCGACGCGAGAGACCCGCCCAGCGCTGCC AGGGCCGGGGCC
77169 I A GCCTCAGGGTGGCCGAGCAGGAA
77169 P C A ATGACGTGGCAGACCGAGCTCTTGGTGTCTY
77169 P T A CGCGCCGAGGTCAGCTCTTGGTGTCTCY
77169 T C A AGCCGAGACACCAAGAGCTCGTCCTCCTCGGCCACCCTGAGGCAG
77169 T T A AGCCGAGACACCAAGAGCTCATCCTCCTCGGCCACCCTGAGGCAG
77169 IS [CT] CAGAAGCCTGTTCCCAGTCCCTGCCGTTCCCAGTCACTGCCTCAGGGTGGCCGAGGAGGA[CT]CAGCTCTTGGTGTCTCGGCTCCACTGACTGCTTTTCTTTCTCCTTCAGA TGCTGATCGCG
77200 I A CTCTCACCAGACCCCAGTACTGGCCTCTT
77200 P A A CGCGCCGAGGAGGGGTTACACAAATCAGY
77200 P G A ATGACGTGGCAGACGGGGGTTACACAAATCAGY
77200 T A A CTCACTGATTTGTGTAACCCCTAGAGGCCAGTACTGGGGTCTGGTGAGAGCC
77200 T G A CTCACTGATTTGTGTAACCCCCAGAGGCCAGTACTGGGGTCTGGTGAGAGCC



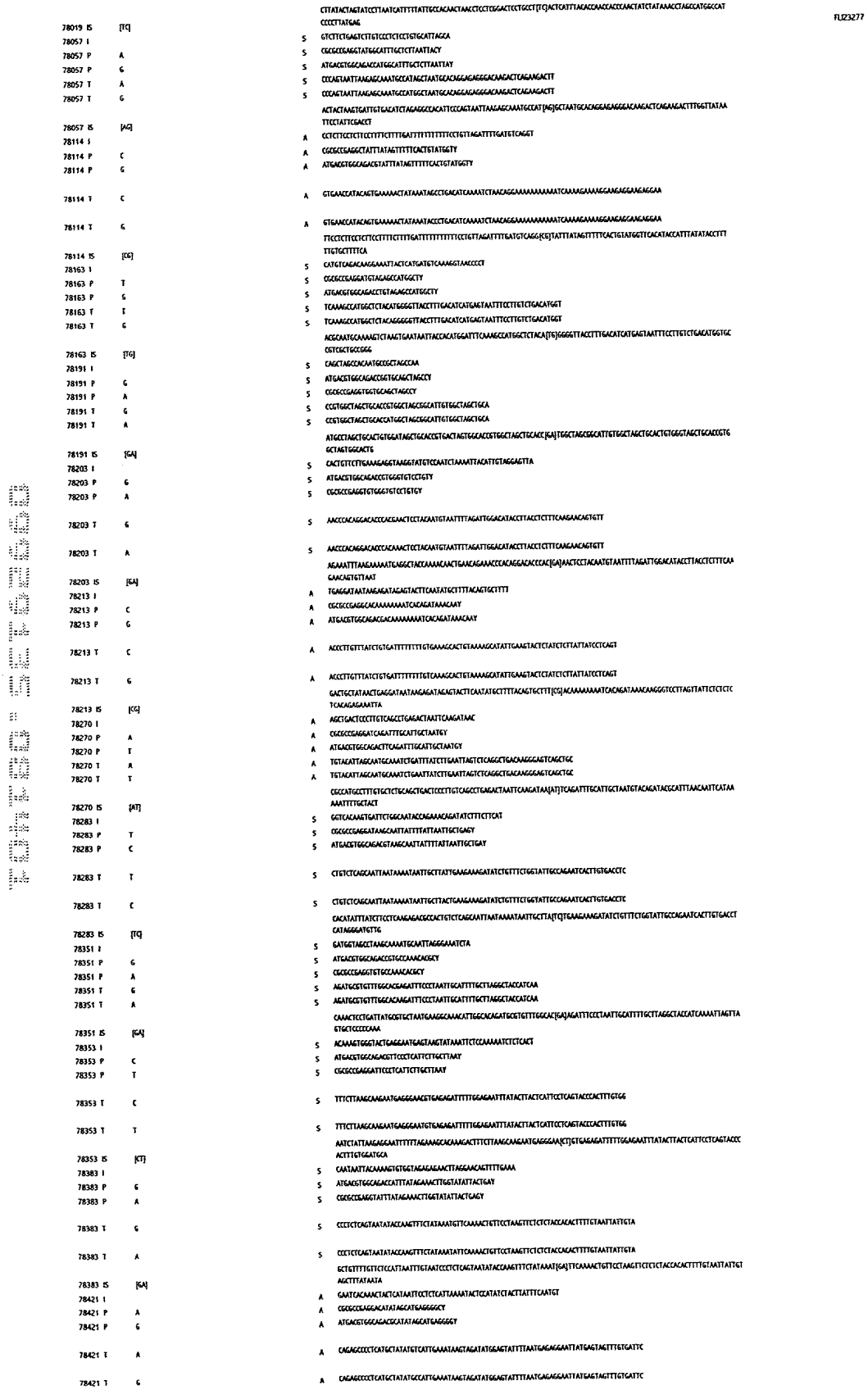

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FIGURE 129C

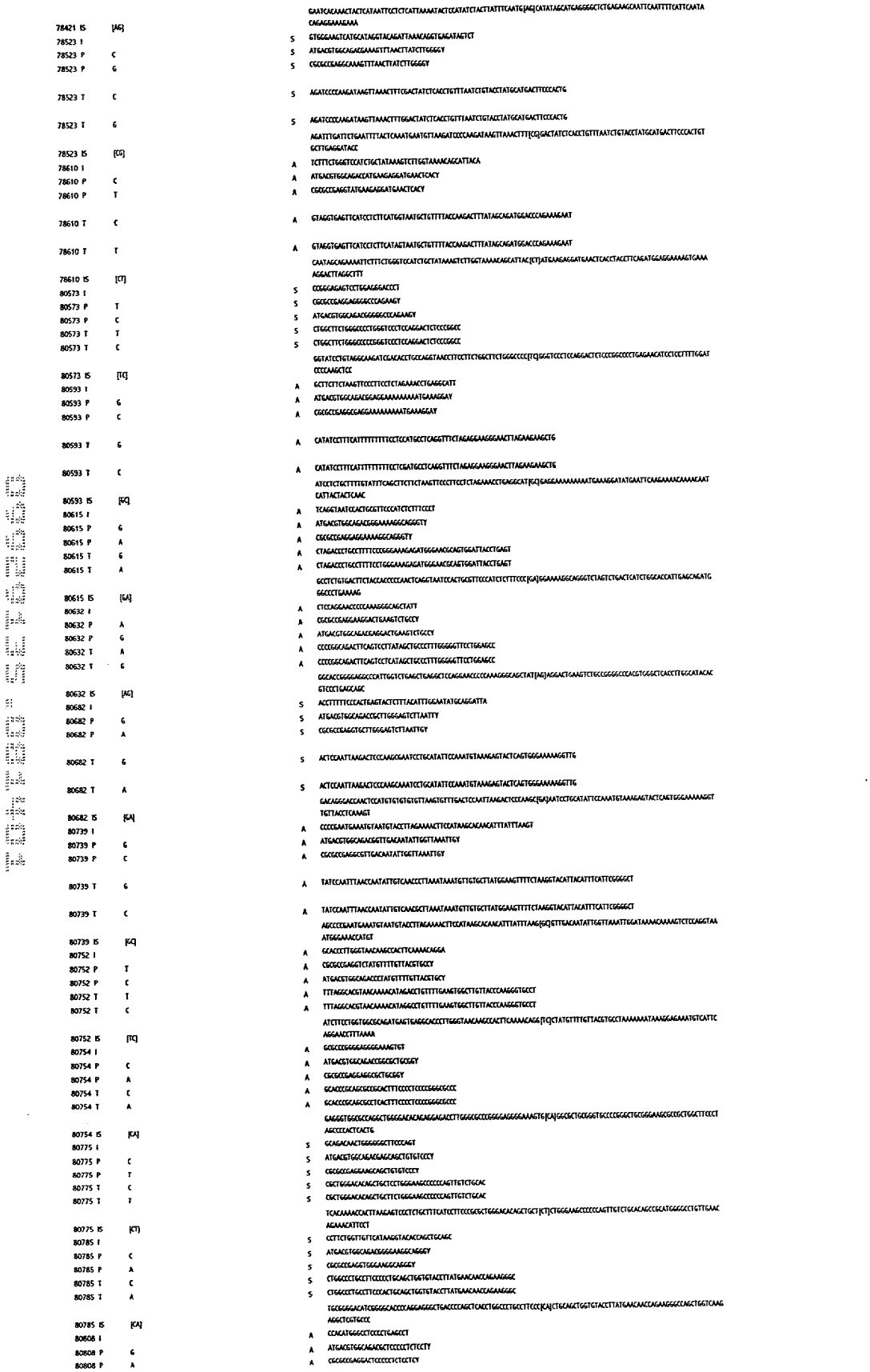
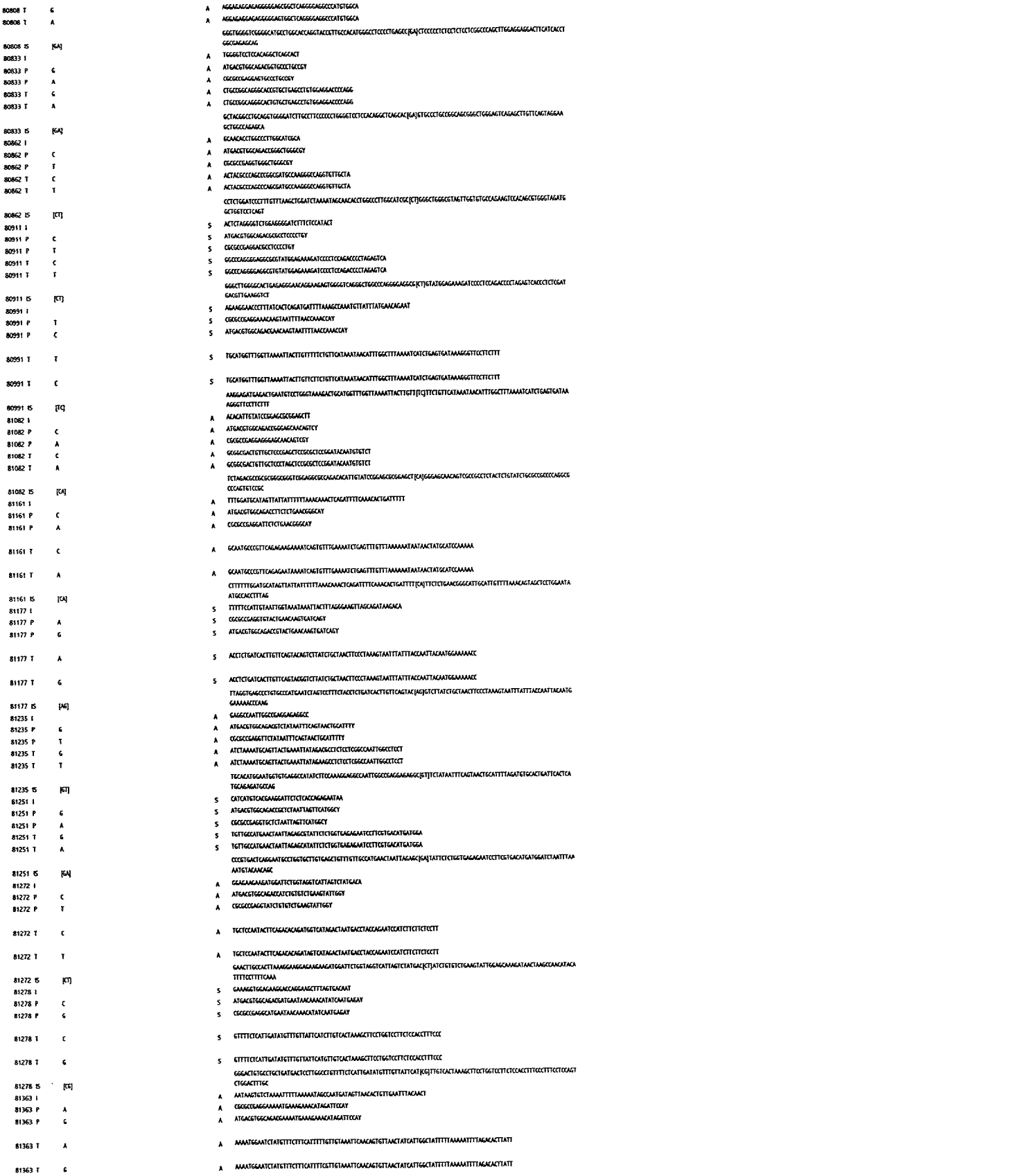
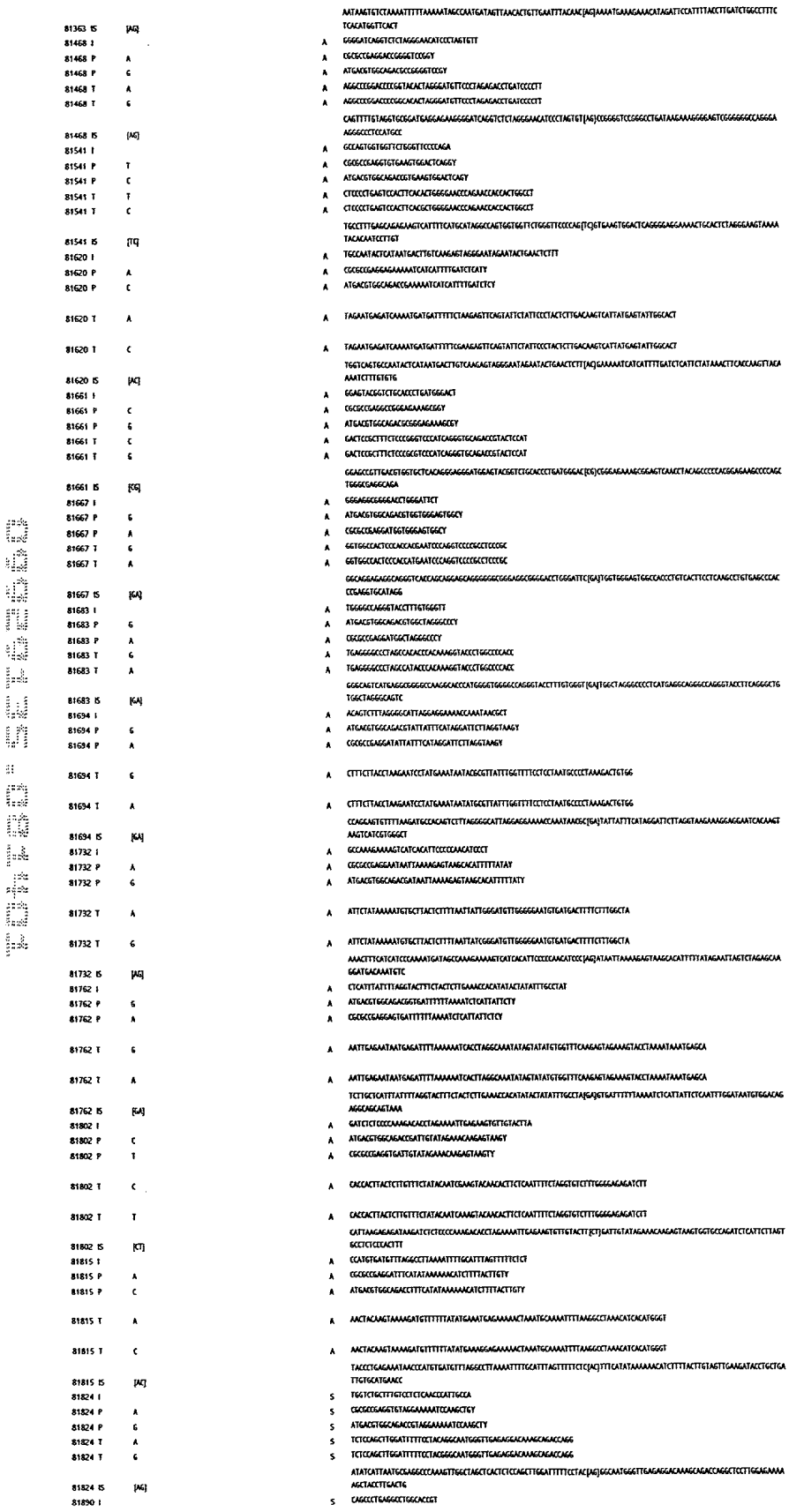


FIGURE 129C





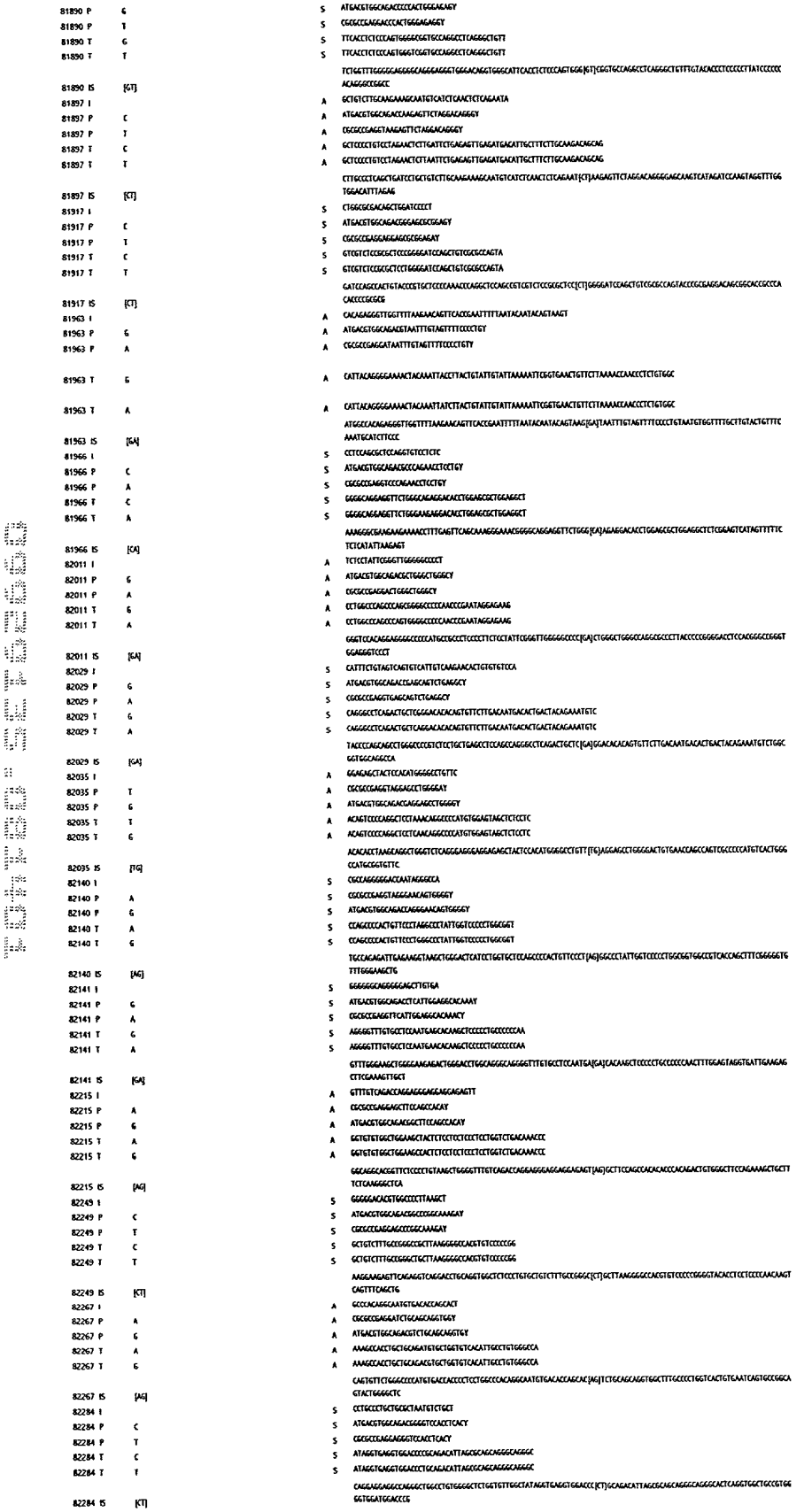

81890 P G S ATGACGTGGCAGACCCCACTGGGACAGY
81890 P T S CGGGCCGAGGACCCACTGGGAGAGGY
81890 T G S TTCACCTCTCCCAGTGGGGCGGTGCCAGGCCTCAGGGCTGTT
81890 T T S TTCACCTCTCCCAGTGGGTCGGTGCCAGGCCTCAGGGCTGTT
81890 IS [GT] TCTGGTTTGGGGCAGGGGCAGGGAGGGTGGGACAGGTGGGCATTCACCTCTCCCAGTGGG[GT]CGGTGCCAGGCCTCAGGGCTGTTTGTACACCCTCCCCCTTATCCCCCC ACAGGGCCGGCC
81897 I A GCTGTCTTCAGAAGAAGCAATGTCATCTCAACTCTCAGAATA
81897 P C A ATGACGTGGCAGACCAAGAGTTCTAGGACAGGGY
81897 P T A CGCGCCCAGCTAAGAGTTCTAGGACAGGGY
81897 T C A GCTCCCCTGTCCTAGAACTCTTGATTCTGAGAGTTGAGATGACATTGCTTTCTTGCAAGACAGCAG
81897 T T A GCTCCCCTGTCCTAGAACTCTTAATTCTGAGAGTTGAGATGACATTGCTTTCTTGCAAGACAGCAG
81897 IS [CT] CTTGCCCTCAGCTGATCCTGCTGTCTTGCAAGAAAGCAATGTCATCTCAACTCTCAGAAT[CT]AAGAGTTCTAGGACAGGGGAGCAAGTCATAGATCCAAGTAGGTTTGG TGGACATTTAGAG
81917 I S CTGGCGGCAACAGCTGGATCCCCT
81917 P C S ATGACGTGGCAGACGGGAGCGCGGAGY
81917 P T S CGCGCCGAGGAGGAAGCGCGGAGAY
81917 T C S GTCGTCTCCCGCGCTCCCGGGGATCCAGCTGTCGCGCCAGTA
81917 T T S GTCGTCTCCCGCGCTCCTGGGGATCCAGCTGTCGGGCCAGTA
81917 IS [CT] GATCCAGCCACTGTACCCGTGCTCCCCCAAACCCAGGCTCCAGCCGTCGTCTCCGGGCTCC[CT]GGGGATCCAGCTGTCGCGCCAGTACCCGCGAGGACAGCGGCACCGCCCA CACCCCGCGG
81963 I A CACAGAGGGTTGGTTTTAAGAACAGTTCACCGAATTTTTAATACAATACAGTAAGT
81963 P G A ATGACGTGGCAGACGTAATTTGTAGTTTTCCCCTGY
81963 P A A CGCGCCGAGGATAATTTGTAGTTTTCCCCTGTY
81963 T G A CATTACAGGGGAAAACTACAAATTACCTTACTGTATTGTATTAAAAATTCGGTGAACTGTTCTTAAAACCAACCCTCTGTGGC
81963 T A A CATTACAGGGGAAAACTACAAATTATCTTACTGTATTGTATTAAAAATTCGGTGAACTGTTCTTAAAACCAACCCTCTGTGGC
81963 IS [GA] ATGGCCACAGAGGGTTGGTTTTAAGAACAGTTCACCGAATTTTTAATACAATACAGTAAG[GA]TAATTTGTAGTTTTCCCCTGTAATGTGGTTTTGCTTGTACTGTTTC AAATGCATCTTCCC
81966 I S CCTCCAGCGCTCCAGGTGTCCTCTC
81966 P C S ATGACGTGGCAGACGCCCAGAACCTCCTGY
81966 P A S CGCGCCCAGGTCCCAGAACCTCCTGY
81966 T C S GGGGCAGGAGGTTCTGGGCAGAGGACACCTGGAGCGCTGGAGGCT
81966 T A S GGGGCAGGAGGTTCTGGGAAGAGGACACCTGGAGCGCTGGAGGCT
81966 IS [CA] AAAGGGCGAAGAAGAAAACCTTTGAGTTCAGCAAAGGGAAACGGGGCAGGAGGTTCTGGG[CA]AGAGAGACACCTGGAGCGCTGGAGGCTCTCGGAGTCATAGTTTTTC TCTCATATTAAGAGT
82011 I A TCTCCTATTCGGGTTGGGGGCCCCT
82011 P G A ATGACGTGGCAGACGCTGGGCTGGGCY
82011 P A A CGCGCCGAGGACTGGGCTGGGCY
82011 T G A CCTGGCCCAGCCCAGCGGGGCCCCCAACCCGAATAGGAGAAG
82011 T A A CCTGGCCCAGCCCAGTGGGGCCCCCAACCCGAATAGGAGAAG
82011 IS [GA] GGGTCCACAGGAGGGCCCCCCATGCCGCCCTCCCCTCTCCTATTCGGGTTGGGGGCCCC[GA]CTGGGCTGGGCCAGGCGCCCTTACCCCCGGGGACCTCCACGGGCCCGGGT GGAGGGTCCCT
82029 I S CATTTCTGTAGTCAGTGTCATTGTCAAGAACACTGTGTGTCCA
82029 P G S ATGACGTGGCAGACCAGCAGTCTGAGGCY
82029 P A S CGCGCCCAGGTCAGCAGTCTGAGGCY
82029 T G S CAGGGCCTCAGACTGCTCGGGACACACAGTGTTCTTGACAATGACACTGACTACAGAAATGTC
82029 T A S CAGGGCCTCAGACTGCTCAGGACACACAGTGTTCTTGACAATGACACTGACTACAGAAATGTC
82029 IS [GA] TACCCCAGCAGCCTGGGCCCCGTCTCTGCTGAGCCTCCAGCCAGGGCCTCAGACTGCTC[GA]GCACACACAGTGTTCTTGACAATGACACTGACTACAGAAATGTCTGGC GGTGGCAGGCCA
82035 I A GGAGAGCTACTCCACATGGGGCCTGTTC
82035 P T A CGCGCCGAGGTAGGAGCCTGGGGAY
82035 P G A ATGACGTGGCAGACGAGGAGCCTGGGGY
82035 T T A ACAGTCCCCAGGCTCCTAAACAGGCCCCATGTGGAGTAGCTCTCCTC
82035 T G A ACAGTCCCCAGGCTCCTCAACAGGCCCCATGTGGAGTAGCTCTCCTC
82035 IS [TG] ACACACTAAGAGGCTGGGTCTCAGGGAGGGAGGAGAGCTACTCCACATGGGGCCTGTT[TG]AGGAGCCTGGGGACTGTGAACCAGCCAGTCGCCCCCATGTCACTGGG CCATGCGGTGTTC
82140 I S CGCCAGGGGGACCAATAGGGCCA
82140 P A S CGCGCCGAGGTAGGAACAGTGGGGY
82140 P G S ATGACGTGGCAGACCAGGGAACAGTGGGGY
82140 T A S CCAGCCCCACTGTTCCCTAGGCCCTATTGGTCCCCCTGGCGGT
82140 T G S CCAGCCCCACTGTTCCCTGGGCCCTATTGGTCCCCCTGGCGGT
82140 IS [AG] TGCCAGAGATTGAGAAGCTAAGCTGGCACTCATCCTGGTGCTCCAGCCCCACTGTTCCCT[AG]GGCCCTATTGGTCCCCCTGGCGGTGGCCGTCACCAGCTTTCGGGGGTG TTTGGGAAGCTG
82141 I S GGGGGGCAGGGGCAGCTTGTGA
82141 P G S ATGACGTGGCAGACCTCATTGGAGGCACAAAY
82141 P A S CGCGCCGAGGTTCATTGGAGGCACAAACY
82141 T G S AGGGGTTTGTGCCTCCAATGAGCACAAGCTCCCCCTGCCCCCCAA
82141 T A S AGGGGTTTGTGCCTCCAATGAACACAAGCTCCCCCTGCCCCCCAA
82141 IS [GA] GTTTGGGAAGCTGGGCAAGAACTGGGACCTGGCAGGGCAGGGGTTTGTGCCTCCAATGA[GA]CACAAGCTCCCCCTGCCCCCCAACTTTGGAGTAGGTGATTGAAGAG CTTCGAAAGTTGCT
82215 I A GTTTGTCAGACCAGGAGGGAGGAGGAGAGTT
82215 P A A CGCGCCGAGGAGCTTCCAGCCACAY
82215 P G A ATGACGTGGCAGACGGCTTCCAGCCACAY
82215 T A A GGTGTGTGGCTGGAAGCTACTCTCCTCCCTCCTGGTCTGACAAACCC
82215 T G A GGTGTGTGGCTGGAAGCCACTCTCCTCCCTCCTGGTCTGACAAACCC
82215 IS [AG] GGCAGGCACGGTTCTCCCCCTGTAAGCTGGGGTTTGTCAGACCAGGAGGGAGGAGGAGAGT[AG]GCTTCCAGCCACACACCCACAGACTGTGGGCTTCCAGAAAGCTGCTT TCTCAAGGGCTCA
82249 I S GGGGGACACGTGGCCCCTTAAGCT
82249 P C S ATGACGTGGCAGACGGCCCGGCAAAGAY
82249 P T S CGCGCCGAGGAGCCCGGCAAAGAY
82249 T C S GCTGTCTTTGCCGGGCCGCTTAAGGGGCCACGTGTCCCCCGG
82249 T T S GCTGTCTTTGCCGGGCTGCTTAAGGGGCCACGTGTCCCCCGG
82249 IS [CT] AAGGAAGAGTTCAGAGGTCAGGACCTGGCAGGTGGCTCTCCCTGTGCTGTCTTTGCCGGGC[CT]GCTTAAGGGGCCACGTGTCCCCCGGGGTACACCTCCTCCCCAACAAGT CAGTTTCAGCTG
82267 I A GCCCACAGGCAATGTGACACCAGCACT
82267 P A A CGCGCCGAGAATCTGCAGCAGGTGGY
82267 P G A ATGACGTGGCAGACGTCTGCAGCAGGTGY
82267 T A A AAAGCCACCTGCTGCAGATGTGCTGGTGTCACATTGCCTGTGGGCCA
82267 T G A AAAGCCACCTGCTGCAGACGTGCTGGTGTCACATTGCCTGTGGGCCA
82267 IS [AG] CAGTGTTCTGGGCCCCATGTGACCACCCCTCCTGCCCCACAGGCAATGTGACACCAGCAC[AG]TCTGCAGCAGGTGGCTTTGCCCCTGGTCACTGTGAATCAGTGCCGGCA GTACTGGGGCTC
82284 I S CCTGCCCTGCTGCGCTAATGTCTGCT
82284 P C S ATGACGTGGCAGACGGGGTCCACCTCACY
82284 P T S CGCGCCGAGGAGGGTCCACCTCACY
82284 T C S ATAGGTGAGGTGGACCCCGCAGACATTAGCGCAGCAGGGCAGGGC
82284 T T S ATAGGTGAGGTGGACCCTGCAGACATTAGGCGAGCAGGGCAGGGC
82284 IS [CT] CAGGAGGAGCCAGGCCTGCCCTGTGGGGCTCTGGTGTTGGCTATAGGTGAGGTGGACCC[CT]GCAGACATTAGCGCAGCAGGGCAGGGCACTCAGGTGGCTGCCGTGG GGTGGATGGACCCG

FIGURE 129C



FIGURE 129C

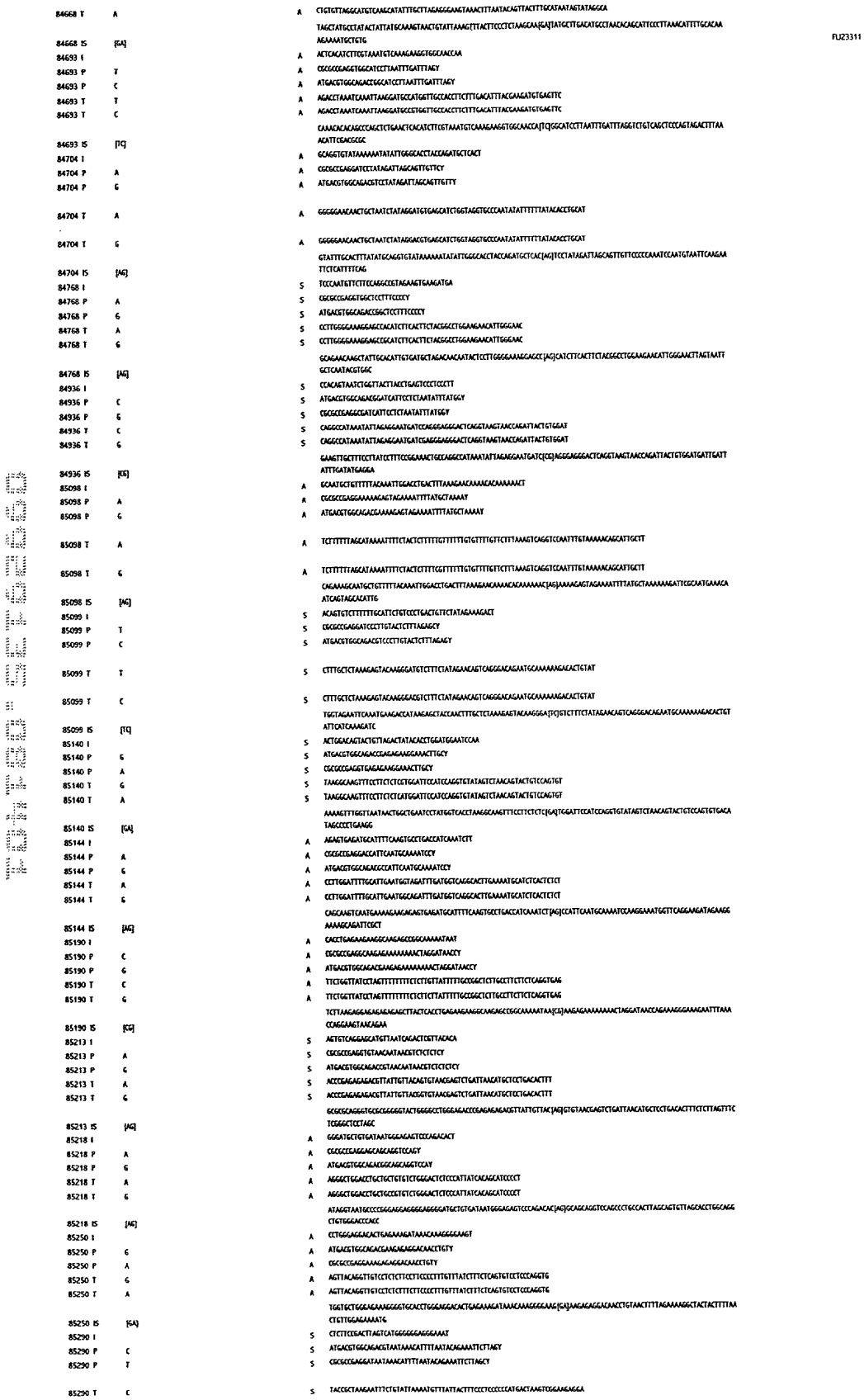
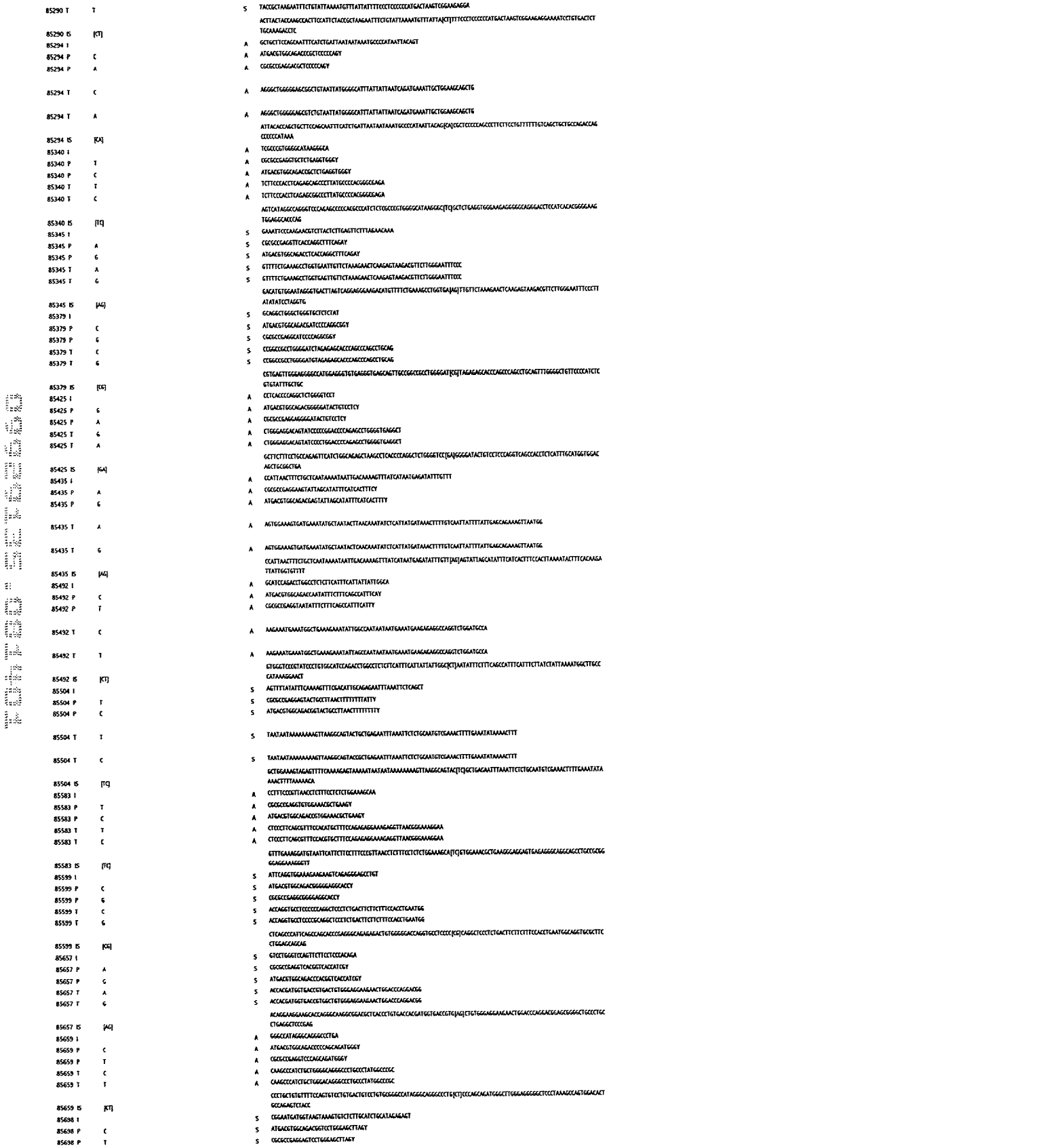


FIGURE 129C



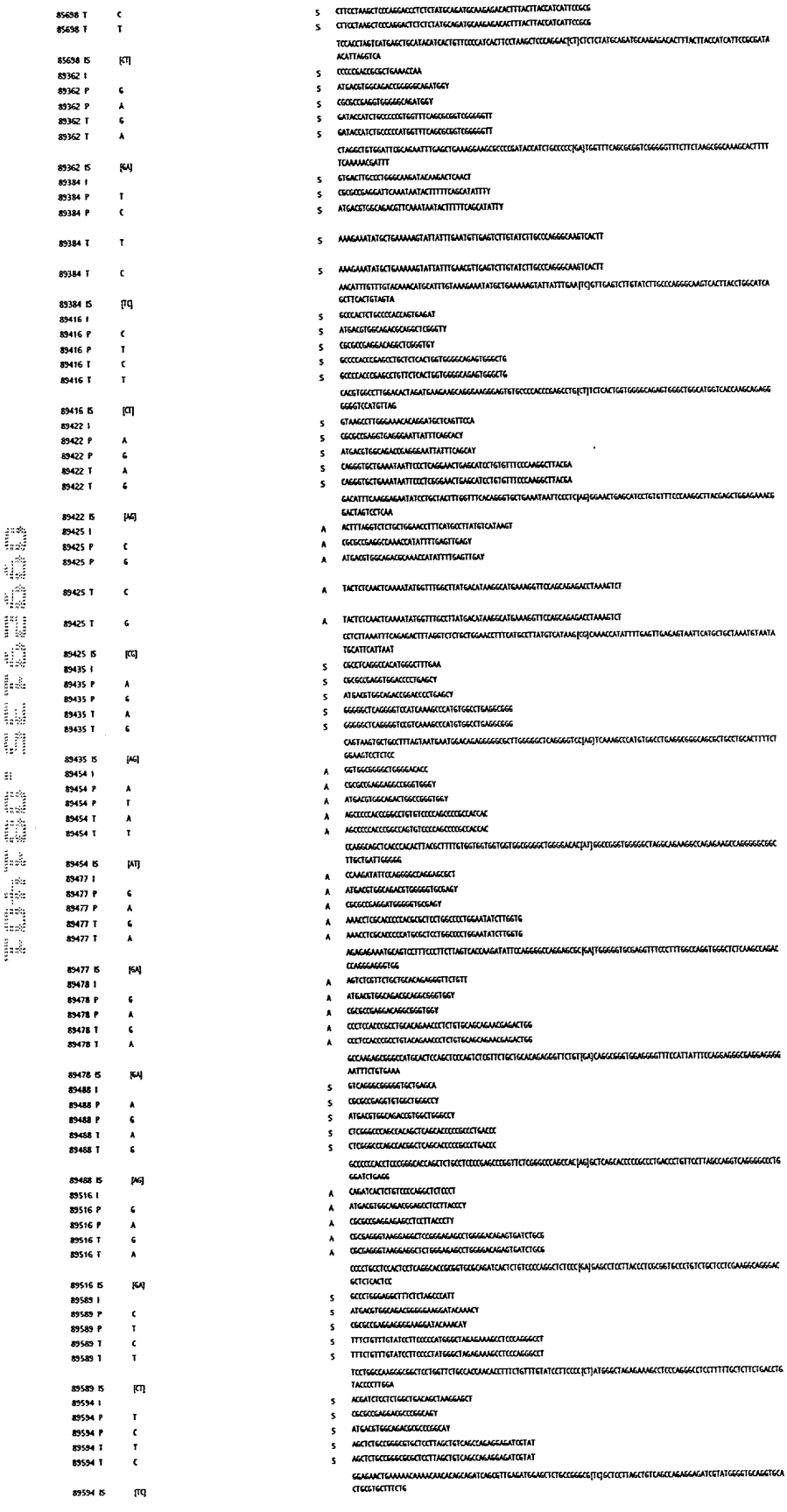


FIGURE 129C

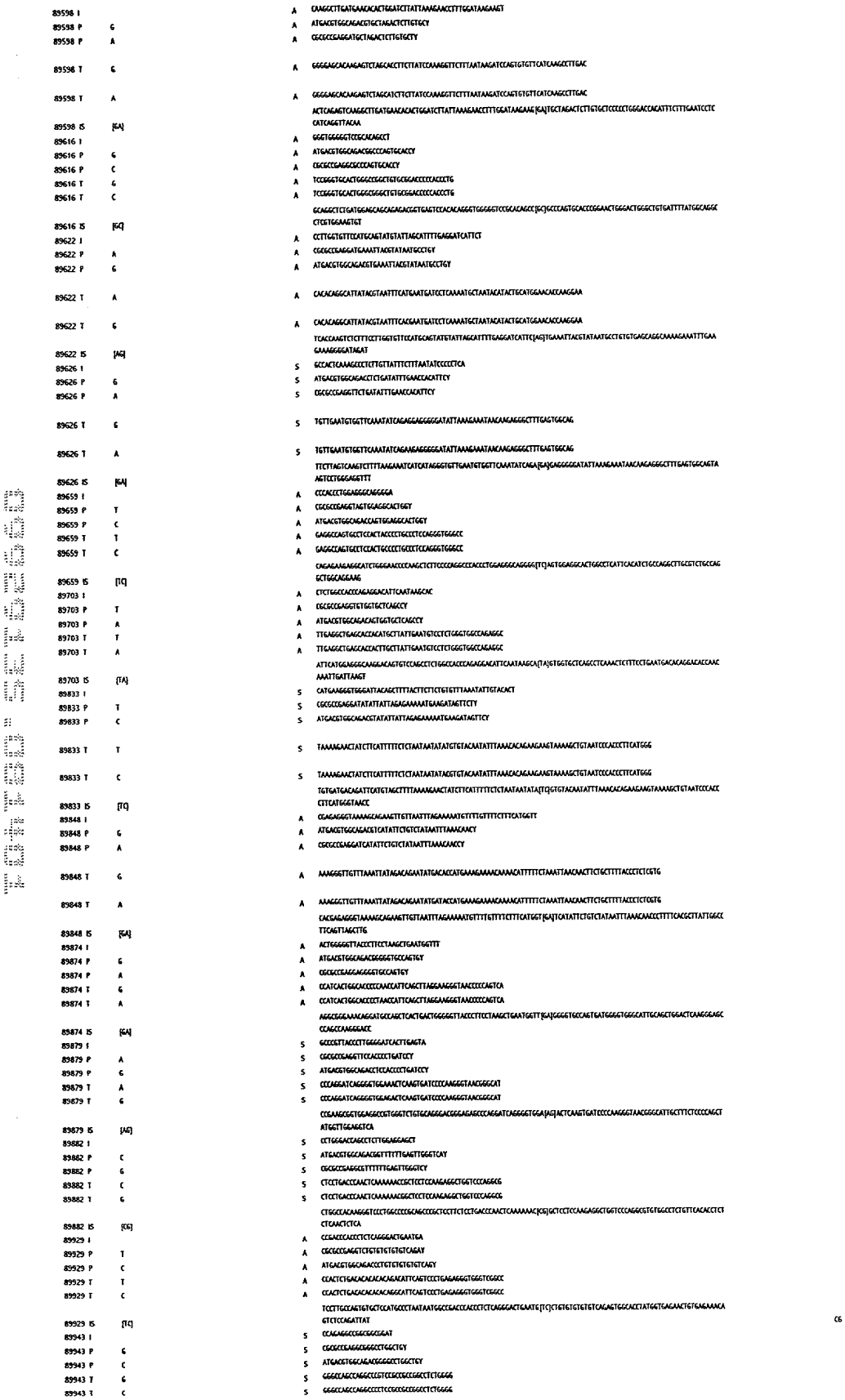


FIGURE 129C

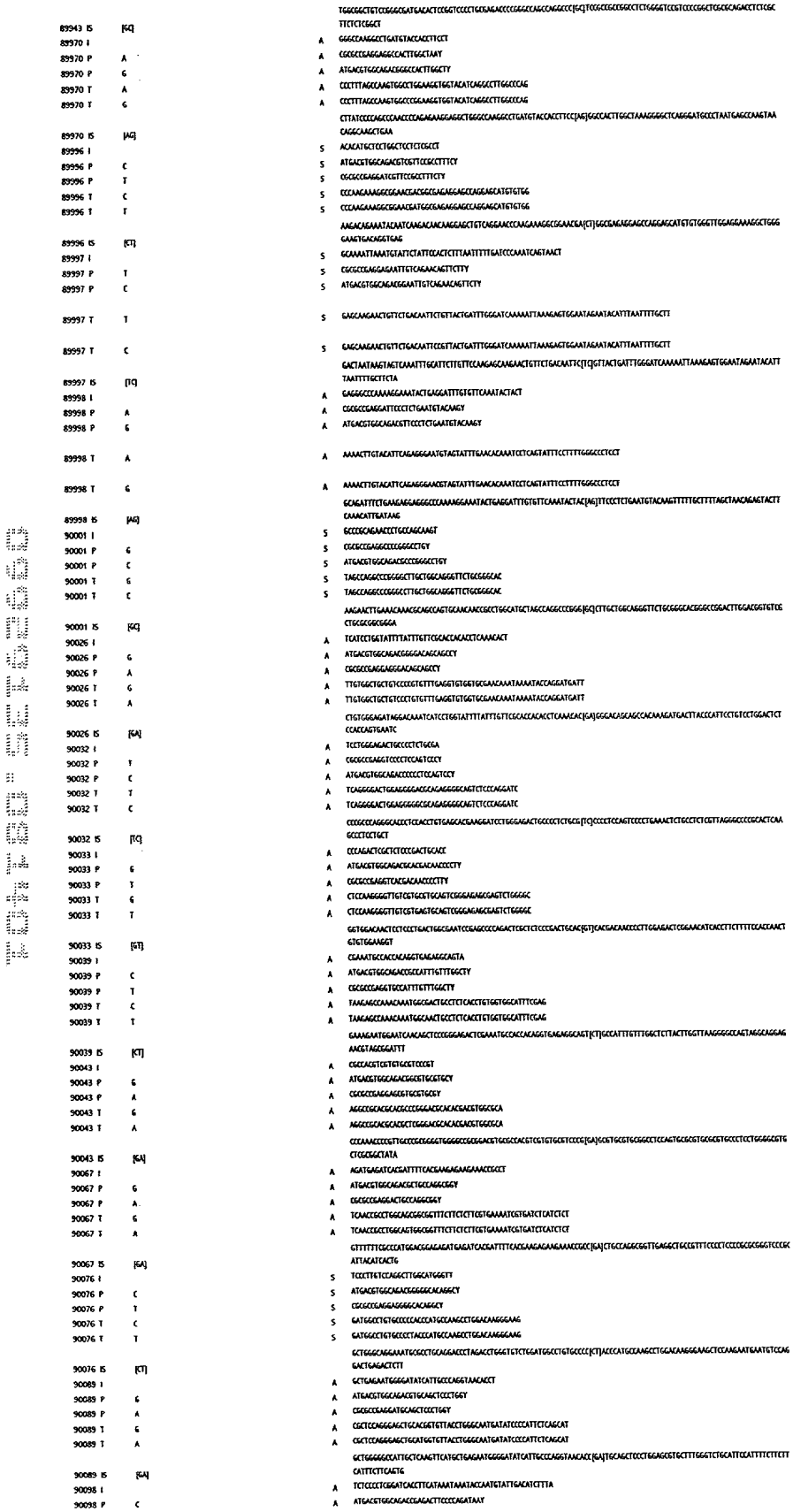


FIGURE 129C

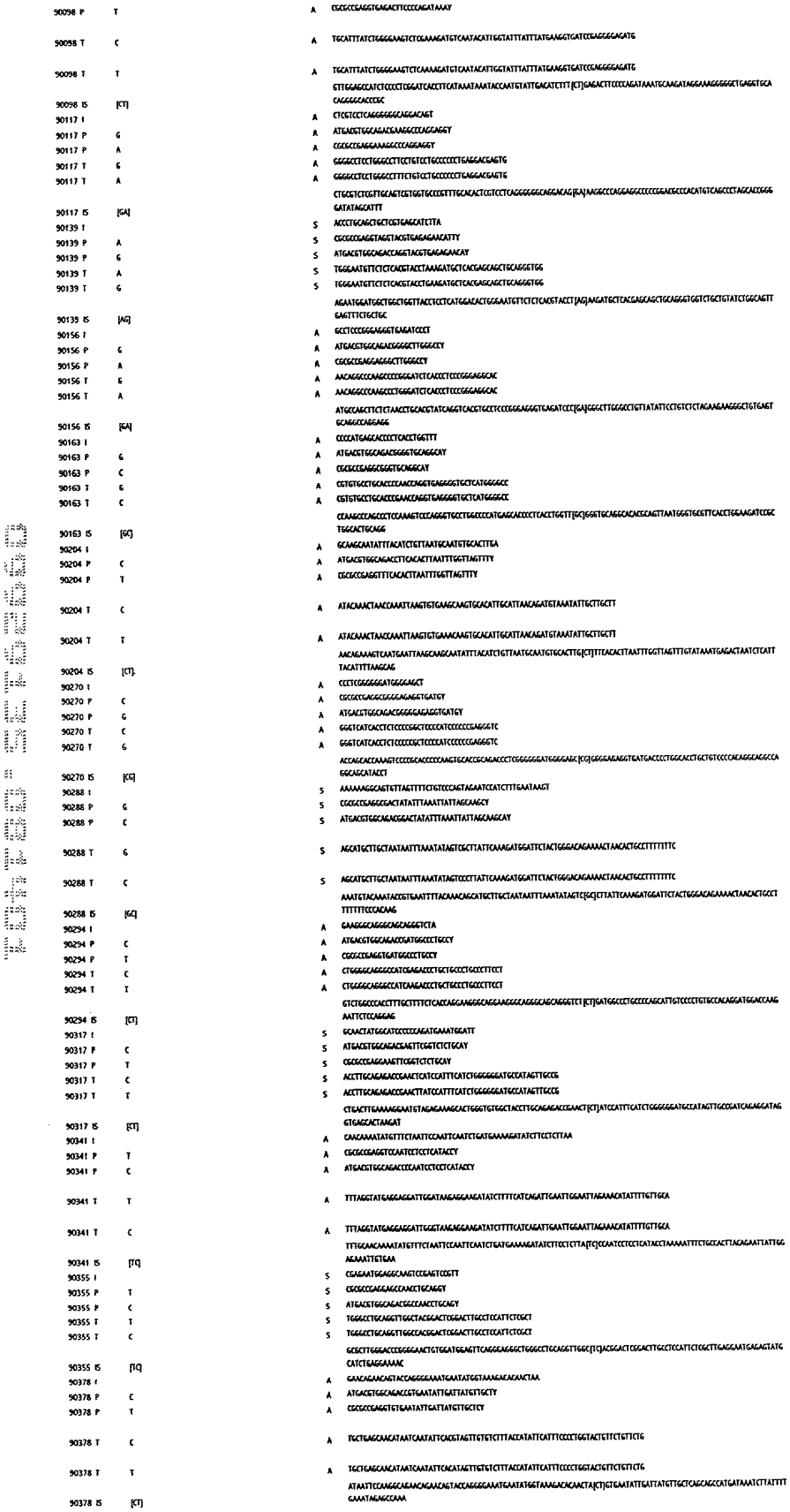


FIGURE 129C

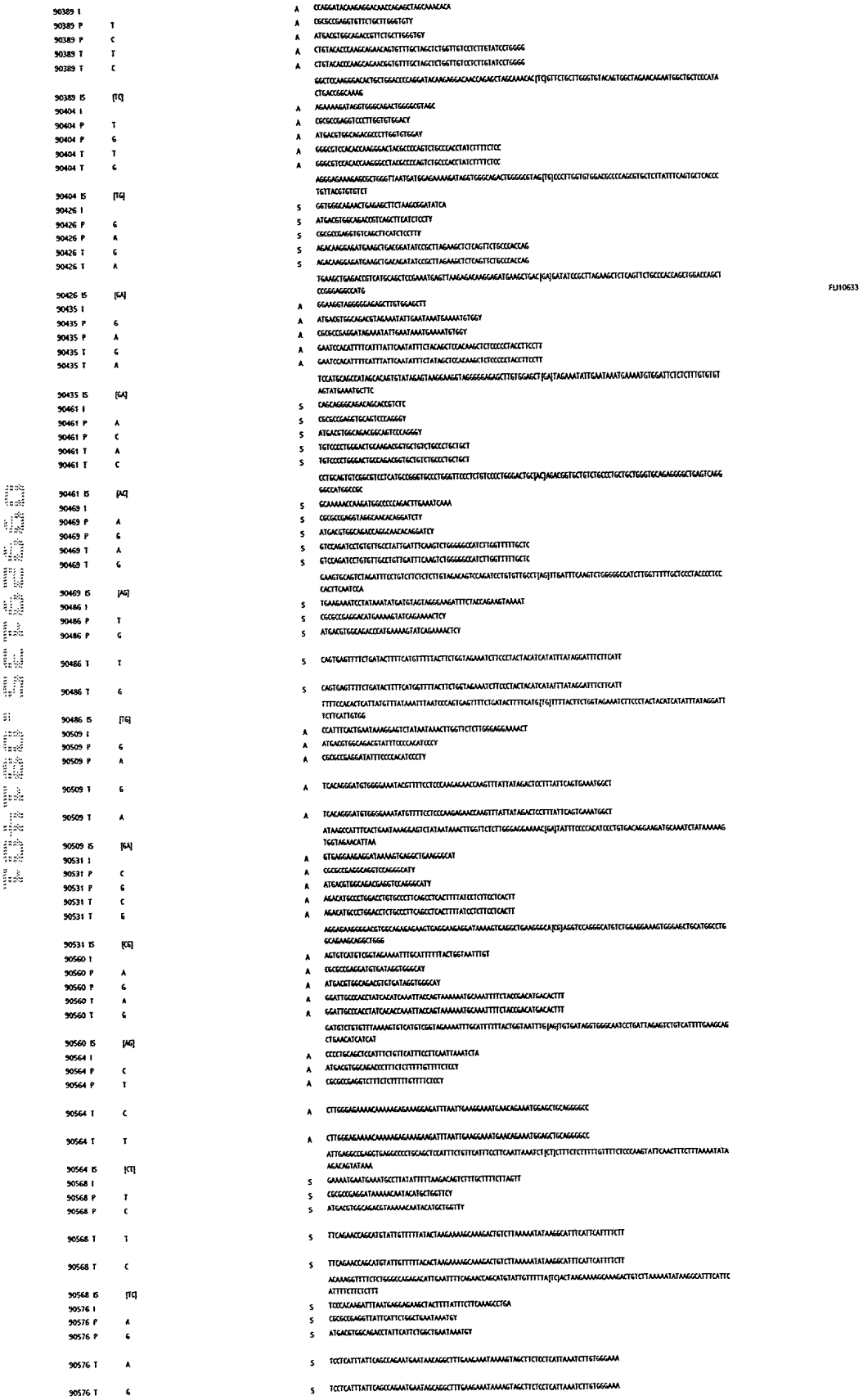
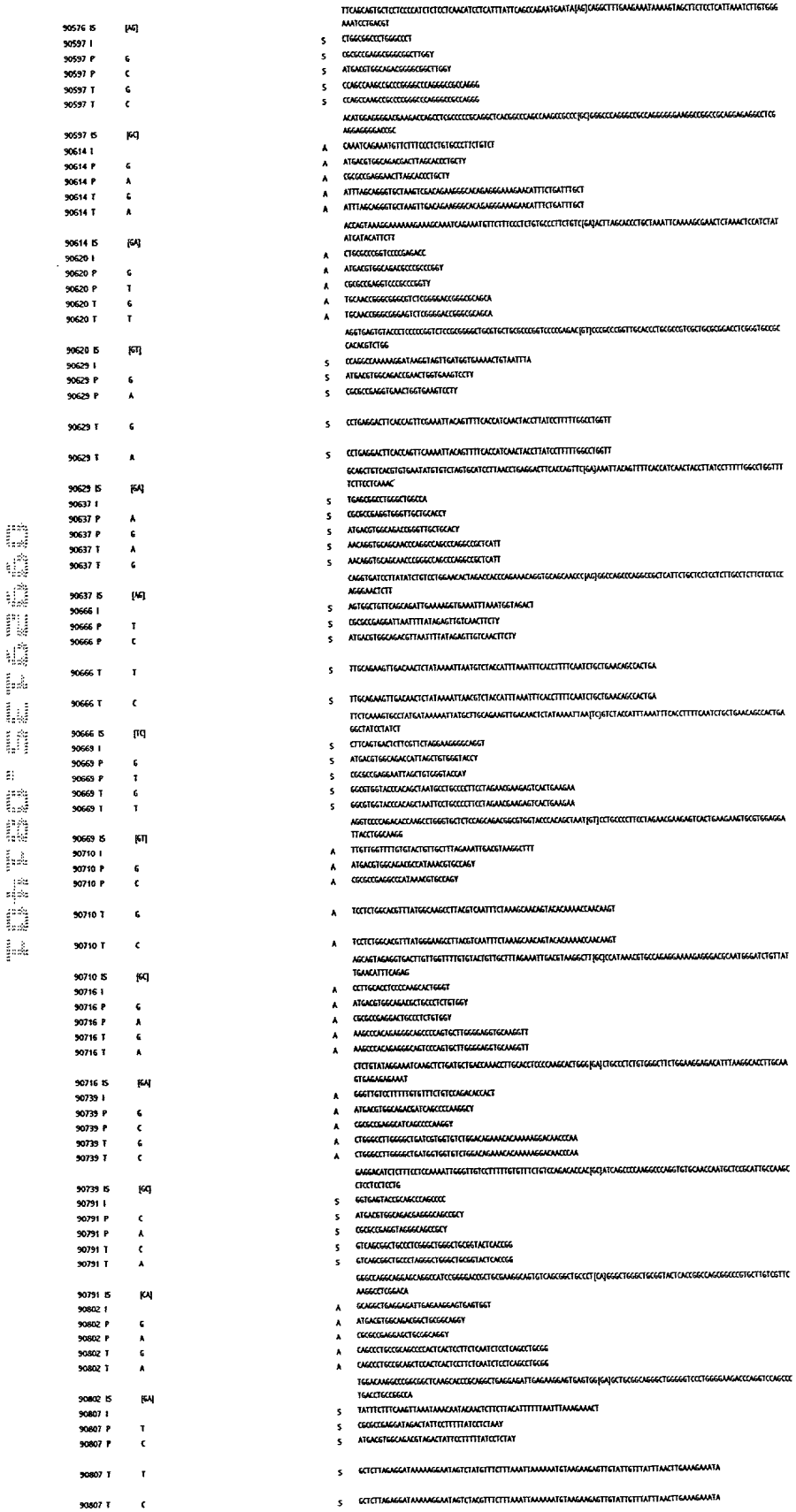


FIGURE 129C



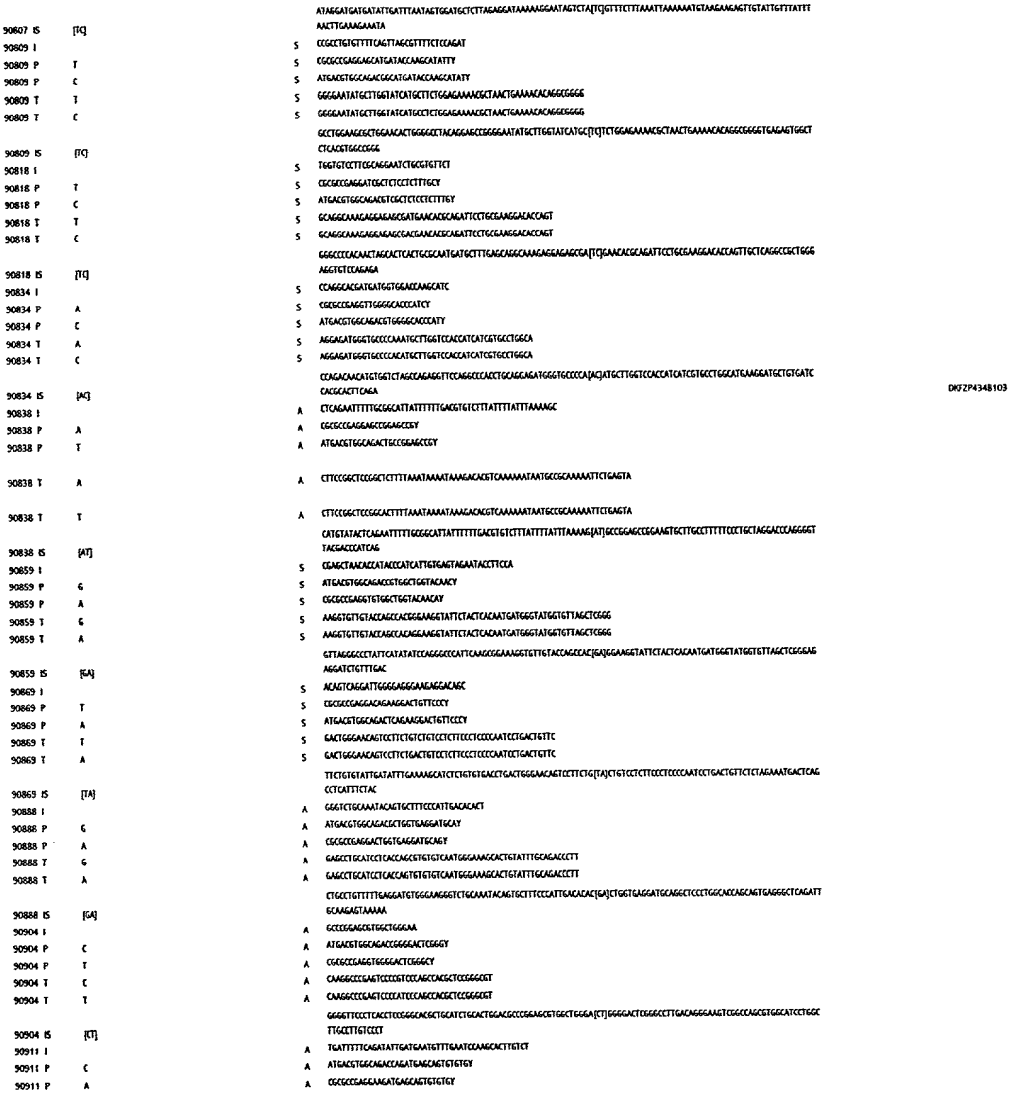

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90809 I CCGCCTGTGTTTTCAGTTAGCGTTTTCTCCAGAT
90809 P T CGCGCCGAGGAGCATGATACCAAGCATATTY
90809 P C ATGACGTGCCAGACGGCATGATACCAAGCATATY
90809 T T GGGGAATATGCTTGGTATCATGCTTCTGGAGAAAACGCTAACTGAAAACACAGGCGGGG
90809 T C GGGGAATATGCTTGGTATCATGCCTCTGGAGAAAACGCTAACTGAAAACACAGGCGGGG
GCCTGGAAGGCGCTGGAACACTGGGGCCTACAGGAGCCGGGGAATATGCTTGGTATCATGC[T/C]TCTGGAGAAAACGCTAACTGAAAACACAGGCGGGGTGAGAGTGGCT
90809 IS [TC] CTCACGTGGCCGGG
90818 I TGGTGTCCTTCGCAGGAATCTGCGTGTTCT
90818 P T CGCGCCGAGGATGGCTCTCCTCTTTGCY
90818 P C ATGACGTGGCAGACGTCGCTCTCCTCTTTGY
90818 T T GCAGGCAAAGAGGAAGCGATGAACACGCAGATTCCTGCGAAGGACACCAGT
90818 T C GCAGGCAAAGAGGAAGCGACGAACACGCAGATTCCTGCGAAGGACACCAGT
GGGCCCCACAACTAGCACTCACTGCGCAATGATGCTTTGAGCAGGCAAAGAGGAGAGCGA[T/C]GAAACACGCAGATTCCTGCGAAGGACACCAGTTGCTCAGGCCGCTGGG
90818 IS [TC] AGGTGTCCAGAGA
90834 I CCAGGCACGATGATGGTGGAACCAAGCATC
90834 P A CGCGCCGAGGTTGGGGCACCCATCY
90834 P C ATGACGTGGCAGACGTGGGGCACCCATY
90834 T A AGGAGATGGGTGCCCCAAATGCTTGGTCCACCATCATCGTGCCTGGCA
90834 T C AGGAGATGGGTGCCCCACATGCTTGGTCCACCATCATCGTGCCTGGCA
CCAGACAACATGTGGTCTAGCCAGAGGTTCCAGGCCCACCTGCAGCAGATGGGTGCCCCA[AC]ATGCTTGGTCCACCATCATCGTGCCTGGCATGAAGGATGCTGTGATC
90834 IS [AC] CACGCACTTCAGA
90838 I CTCAGAATTTTTGCGGCATTATTTTTTGACGTGTCTTTATTTTATTTAAAAGC
90838 P A CGCGCCCGAGGAGCCGGAGCCGY
90838 P T ATGACGTGGCAGACTGCCGGAGCCGY
90838 T A CTTCCGGCTCCGGCTCTTTAAATAAAATAAAGACACGTCAAAAAATAATGCCGCAAAAATTCTGAGTA
90838 T T CTTCCGGCTCCGGCACTTTAAATAAAATAAAGACACGTCAAAAAATAATGCCGCAAAAATTCTGAGTA
CATGTATACTCAGAATTTTTGCGGGCATTATTTTTTGACGTGTCTTTATTTTATTTAAAAG[AT]GCCGGAGCCGGAAGTGCTTGCCTTTTTCCCTGCTAGGACCCAGGGGT
90838 IS [AT] TACGACCCATCAG
90859 I CGAGCTAACACATACCCATCATTGTGAGTAGAATACCTTCCA
90859 P G ATGACGTGGCAGACCCTGGCTGGTACAACY
90859 P A CGCGCCGAGGTGTGGCTGGTACAACAY
90859 T G AAGGTGTTGTACCAGCCACGGGAAGGTATTCTACTCACAATGATGGGTATGGTGTTAGCTCGGG
90859 T A AAGGTGTTGTACCAGCCACAGGAAGGTATTCTACTCACAATGATGGGTATGGTGTTAGCTCGGG
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90859 IS [GA] AGGATCTGTTTGAC
90869 I ACAGTCAGGATTGGGGAGGGAAGAGGACAGC
90869 P T CGCGCCGAGGACAGAAGGACTGTTCCCY
90869 P A ATGACGTGGCAGACTCAGAAGGACTGTTCCCY
90869 T T GACTGGGAACAGTCCTTCTGTCTGTCCTCTTCCCTCCCCAATCCTGACTGTTC
90869 T A GACTGGGAACAGTCCTTCTGACTGTCCTCTTCCCTCCCCAATCCTGACTGTTC
TTCTGTGTATTGATATTTGAAAAGCATCTCTGTGTGACCTGACTGGGAACAGTCCTTCTG[TA]CTGTCCTCTTCCCTCCCCAATCCTGACTGTTCTCTAGAAATGACTCAG
90869 IS [TA] CCTCATTTCTAC
90888 I GGGTCTGCAAATACAGTGCTTTCCCATTGACACACT
90888 P G ATGACGTGGCAGACGCTGGTGAGGATGCAGY
90888 P A CGCGCCGAGGACTGGTGAGGATGCAGY
90888 T G GAGCCTGCATCCTCACCAGCGTGTGTCAATGGGAAAGCACTGTATTTGCAGACCCTT
90888 T A GAGCCTGCATCCTCACCAGTGTGTGTCAATGGGAAAGCACTGTATTTGCAGACCCTT
CTGCCTGTTTTTGAGGATGTGGGGAAGGGTCTGCAAATACAGTGCTTTCCCATTGACACAC[GA]CTGGTGAGGATGCAGGCTCCCTGGCACCAGCAGTGAGGGCTCAGATT
90888 IS [GA] GCAAGAGTAAAAA
90904 I GCCCGGAGCGTGGCTGGGAA
90904 P C ATGACGTGGCAGACGGGGGACTCGGGY
90904 P T CGCGCCGAGGTGGGGACTCGGGCY
90904 T C CAAGGCCCGAGTCCCCGTCCCAGCCACGCTCCGGGCGT
90904 T T CAAGGCCCGAGTCCCCATCCCAGCCACGCTCCGGGCGT
GGGGTTCCCTCACCTCCGGGCACGCTGCATCTGCACTGGACGCCCGGAGCGTGGCTGGGA[CT]GGGGACTCGGGCCTTGACAGGGAAGTCGGCCAGCGTGGCATCCTGGC
90904 IS [CT] TTGCCTTGTCCCT
90911 I TGATTTTTCAGATATTGATGAATGTTTGAATCCAAGCACTTGTCT
90911 P C ATGACGTGGCAGACAGATGAGCAGTGTGTGY
90911 P A CGCGCCGAGGAAGATGAGCAGTGTGTGY
90911 T C AATTCACACACTGCTCATCTGGACAAGTGCTTGGATTCAAACATTCATCAATATCTGAAAATCAAA
90911 T A AATTCACACACTGCTCATCTTGACAAGTGCTTGGATTCAAACATTCATCAATATCTGAAAATCAAA
TCACGACCTAGGTTTTTGATTTTTCAGATATTGATGAATGTTTGAATCCAAGCACTTGTC[C/A]AGATGAGCAGTGTGTGAATTCTCCTGGATCTTACCAGTGCGTTCCCT
90911 IS [CA] GCACAGAAGGATT
90912 I CAGAAGAGTAAGTTGTTATTTGCGGAGTTAGAATATGATCACATAAAA
90912 P A CGCGCCGAGGTAATCAATAGATACTTAACATGCCAY
90912 P G ATGACGTGGCAGACCAATCAATAGATACTTAACATGCCY
90912 T A GTAATGGCATGTTAAGTATCTATTGATTATTTATGTGATCATATTCTAACTCCGCAAATAACAACTTACTCTTCTGAT
90912 T G GTAATGGCATGTTAAGTATCTATTGATTGTTTATGTGATCATATTCTAACTCCGCAAATAACAACTTACTCTTCTGAT
TACTATGAGTGCTCAACAATTTAAACTTCACAGTAATGGCATGTTAAGTATCTATTGATT[AG]TTTATGTGATCATATTCTAACTCCGCAAATAACAACTTACTCTTCTG
90912 IS [AG] ATTTTCTTCCGTT
90919 I CATTTGATTCATTTATAGGCAGTAGTTGGCTTTGAATAATAGGTGT
90919 P A CGCGCCGAGGACTGTAATATATCAGATTACAAAGAACY
90919 P G ATGACGTGGCAGACGCTGTAATATATCAGATTACAAAGAAT
90919 T A TGAAGTTCTTTGTAATCTGATATATTACAGTCACCTATTATTCAAAGCCAACTACTGGCTATAAATGAATCAAATGTT
90919 T G TGAAGTTCTTTGTAATCTGATATATTACAGCCACCTATTATTCAAAGCCAACTACTGGCTATAAATGAATCAAATGTT
TTTTTAACGGTTAAACATTTGATTCATTTATAGCCAGTAGTTGGCTTTGAATAATAGGTG[AG]CTGTAATATATCAGATTACAAAGAAACTTCAAAGAAAATTGTCTTTC
90919 IS [AG] ATTTTGGCATTCAC
90925 I TCCAATTCAAAATTGTTTTCAGCTAATGTAAGTATCATTGTATATATGCCTT
90925 P C ATGACGTGGCAGACGTCATTGAATGTGTTGTGAAAY
90925 P G CGCGCCGAGGCTCATTGAATGTGTTGTGAAATY
90925 T C GCAAATTTCACAACACATTCAATGACAGGCATATATACAATGATACTTACATTAGCTGAAAACAATTTTGAATTGGAGA
90925 T G GCAAATTTCACAACACATTCAATGAGAGGCATATATACAATGATACTTACATTAGCTGAAAACAATTTTGAATTGGAGA
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90925 IS [CG] TTGGAGACAAAGGG
90937 I GCAACAGGGCAGGCACAGGGCAGC
90937 P C ATGACGTGGCAGACGCTGGGCAGGAGGY
90937 P A CGCGCCGAGGTGTGGGCAGGAGGY
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FIGURE 129C

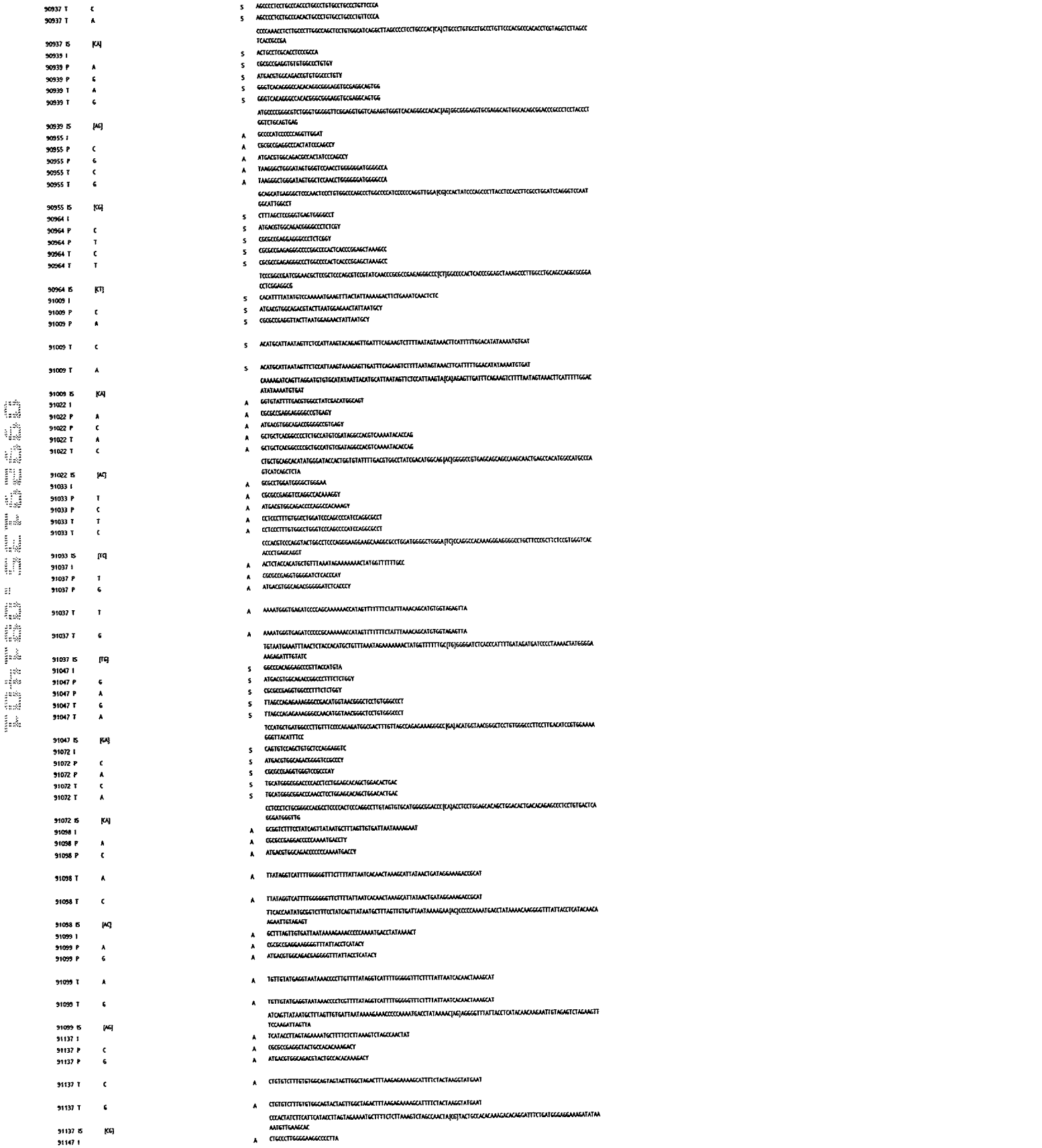
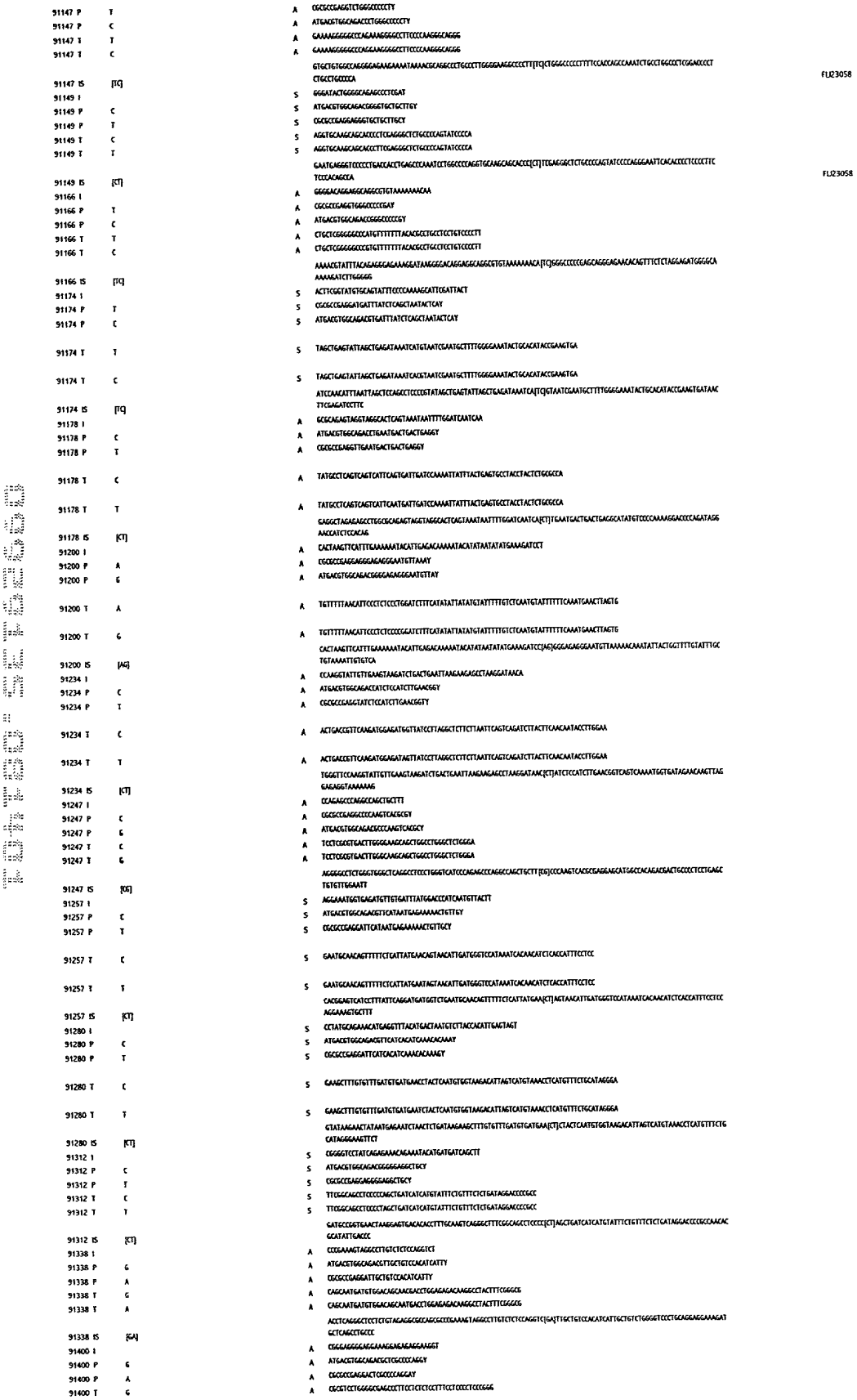


FIGURE 129C


91147 P T A CGCGCCGAGGTCTGGGCCCCCTY
91147 P C A ATGACGTGGCAGACCCTGGGCCCCCTY
91147 T T A GAAAAGGGGGCCCAGAAAGGGGCCTTCCCCAAGGGCAGGG
91147 T C A GAAAAGGGGGCCCAGGAAGGGGCCTTCCCCAAGGGCAGGG
GTGCTGTGGCCAGGGGAGAAGAAAATAAAACGCAGGCCCTGCCCTTGGGGAAGGCCCCTTTTCYCTGGGCCCCCTTTTCCACCAGCCAAATCTGCCTGGCCCTCGAGCCCT
91147 IS [TC] CTGCCTGCCCCA FLI23058
91149 I S GGGATACTGGGGCAGAGCCCTCGAT
91149 P C S ATGACGTGGCAGACGGGGTGCTGCTTGY
91149 P T S CGCGCCGAGGAGGGTGCTGCTTGCY
91149 T C S AGGTGCAAGCAGCACCCCTCGAGGGCTCTGCCCCAGTATCCCCA
91149 T T S AGGTGCAAGCAGCACCCTTCGAGGGCTCTGCCCCAGTATCCCCA
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91149 IS [CT] TCCCACAGCCA FLI23058
91166 I A GGGGACAGGAGGCAGGCGTGTAAAAAAACAA
91166 P T A CGCGCCGAGGTGGGCCCCCGAY
91166 P C A ATGACGTGGCAGACGGGGCCCCGY
91166 T T A CTGCTCGGGGGCCCATGTTTTTTTACAGCCTGCCTCCTGTCCCCTT
91166 T C A CTGCTCGGGGGCCCTGTTTTTTTACAGCCTGCCTCCTGTCCCCTT
AAAACGTATTTACAGAGGGAGAAAGGATAAGGGCACAGGAGCAGGCAGGCGTGTAAAAAAACA[TC]GGGCCCCCCAGCAGGGAGAACACAGTTTCTCTAGGAGATGGGGCA
91166 IS [TC] AAAAGATCTTGGGGG
91174 I S ACTTCGGTATGTGCAGTATTTCCCCAAAGCATTCGATTACT
91174 P T S CGCGCCGAGGATGATTTATCTCAGCTAATACTCAY
91174 P C S ATGACGTGGCAGACGTGATTTATCTCAGCTAATACTCAY
91174 T T S TAGCTGAGTATTAGCTGAGATAAATCATGTAATCGAATGCTTTTGGGGAAATACTGCACATACCGAAGTGA
91174 T C S TAGCTGAGTATTAGCTGAGATAAATCAGGTAATCGAATGCTTTTGGGGAAATACTGCACATACCGAAGTGA
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91174 IS [TC] TTCGAGATCCTTC
91178 I A GCGCAGAGTAGGTAGGCACTCAGTAAATAATTTTGGATCAATCAA
91178 P C A ATGACGTGGCAGACCTGAATGACTGACTGAGGY
91178 P T A CGCGCCGAGGTTGAATGACTGACTGAGGY
91178 T C A TATGCCTCAGTCAGTCATTCAGTGATTGATCCAAAATTATTTACTGAGTGCCTACCTACTCTGCGCCA
91178 T T A TATGCCTCAGTCAGTCATTCAATGATTGATCCAAAATTATTTACTGAGTGCCTACCTACTCTGCGCCA
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91178 IS [CT] AACCATCTCCACAG
91200 I A CACTAAGTTCATTTGAAAAATACATTGAGACAAAAATACATATAATATATGAAAGATCCT
91200 P A A CGCGCCGAGGAGGGAGAGGGAATGTTAAAY
91200 P G A ATGACGTGGCAGACGGGGAGAGGGAATGTTAY
91200 T A A TGTTTTTAACATTCCCTCTCCCTGGATCTTTCATATATTATATGTATTTTTGTCTCAATGTATTTTTTCAAATGAACTTAGTG
91200 T G A TGTTTTTAACATTCCCTCTCCCCGGATCTTTCATATATTATATGTATTTTTGTCTCAATGTATTTTTTCAAATGAACTTAGTG
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91200 IS [AG] TGTAAAATTGTGTCA
91234 I A CCAAGGTATTGTTGAAGTAAGATCTGACTGAATTAAGAAGAGCCTAAGGATAACA
91234 P C A ATGACGTGGCAGACCATCTCCATCTTGAACGGY
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91234 T C A ACTGACCGTTCAAGATGGAGATGGTTATCCTTAGGCTCTTCTTAATTCAGTCAGATCTTACTTCAACAATACCTTGGAA
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91247 I A CCAGAGCCCAGGCCAGCTGCTTT
91247 P C A CGCGCCGAGGCCCCAAGTCACGCGY
91247 P G A ATGACGTGGCAGACGCCCAAGTCACGCY
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91247 T G A TCCTCGCGTGACTTGGCAAGCAGCTGGCCTGGGCTCTGGGA
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91247 IS [GG] TGTGTTGGAATT
91257 I S AGGAAATGGTGAGATGTTGTGATTTATGGACCCATCAATGTTACTT
91257 P C S ATGACGTGGCAGACGTTCATAATGAGAAAAACTGTTGY
91257 P T S CGCGCCGAGGATTCATAATGAGAAAAACTGTTGCY
91257 T C S GAATGCAACAGTTTTCTCATTATGAACAGTAACATTGATGGGTCCATAAATCACAACATCTCACCATTTCCTCC
91257 T T S GAATGCAACAGTTTTCTCATTATGAATAGTAACATTGATGGGTCCATAAATCACAACATCTCACCATTTCCTCC
CACGGAGTCATCCTTTATTCAGGATGATGGTCTGAATGCAACAGTTTTCTCATTATGAA[CT]AGTAACATTGATGGGTCCATAAATCACAACATCTCACCATTTCCTCC
91257 IS [CT] AGGAAAGTGCTTT
91280 I S CCTATGCAGAAACATGAGGTTTACATGACTAATGTCTTACCACATTGAGTAGT
91280 P C S ATGACGTGGCAGACGTTCATCACATCAAACACAAAY
91280 P T S CGCGCCGAGGATTCATCACATCAAACACAAAGY
91280 T C S GAAGCTTTGTGTTTGATGTGATGAACCTACTCAATGTGGTAAGACATTAGTCATGTAAACCTCATGTTTCTGCATAGGGA
91280 T T S GAAGCTTTGTGTTTGATGTGATGAATCTACTCAATGTGGTAAGACATTAGTCATGTAAACCTCATGTTTCTGCATAGGGA
GTATAAGAACTATAATGAGAATCTAACTCTGATAAGAAGCTTTGTGTTTGATGTGATGAA[CT]CTACTCAATGTGGTAAGACATTAGTCATGTAAACCTCATGTTTCTG
91280 IS [CT] CATAGGGAAGTTCT
91312 I S CGGGGTCCTATCAGAGAAACAGAAATACATGATGATCAGCTT
91312 P C S ATGACGTGGCAGACGGGGAGGCTGCY
91312 P T S CGCGCCGAGGAGGGGAGGCTGCY
91312 T C S TTGGGCAGCCTCCCCCAGCTGATCATCATGTATTTCTGTTTCTCTGATAGGACCCCGCC
91312 T T S TTGGGCAGCCTCCCCTAGCTGATCATCATGTATTTCTGTTTCTCTGATAGGACCCCGCC
GATGCCGGTGAACTAAGGAGTGACACACCTTTGCAAGTCAGGGCTTTCGGCAGCCTCCCCC[CT]AGCTGATCATCATGTATTTCTGTTTCTCTGATAGGACCCCGCCAACAC
91312 IS [CT] GCATATTGACCC
91338 I A CCCGAAAGTAGGCCTTGTCTCTCCAGGTCT
91338 P G A ATGACGTGGCAGACGTTGCTGTCCACATCATTY
91338 P A A CGCGCCGAGGATTGCTGTCCACATCATTY
91338 T G A CAGCAATGATGTGGACAGCAACGACCTGGAGAGACAAGGCCTACTTTCCGGCG
91338 T A A CAGCAATGATGTGGACAGCAATGACCTGGAGAGACAAGGCCTACTTTCCGGCG
ACCTCAGGGCTCCTCTGTAGAGGCGCCAGCGCCGAAAGTAGGCCTTGTCTCTCCAGGTC[GA]TTGCTGTCCACATCATTGCTGTCTGGGGTCCCTGCAGGAGGAAAGAT
91338 IS [GA] GCTCAGCCTGCCC
91400 I A CGGCAGGGCAGCAAAGGAGAGAAGGAAGGT
91400 P G A ATGACGTGGCAGACGCTCGCCCCAGGY
91400 P A A CGCGCCGAGGACTCGCCCCAGGAY
91400 T G A CGCGTCCTGGGGCGAGCCTTCCTCTCTCCTTTCCTCCCCTCCCGGG

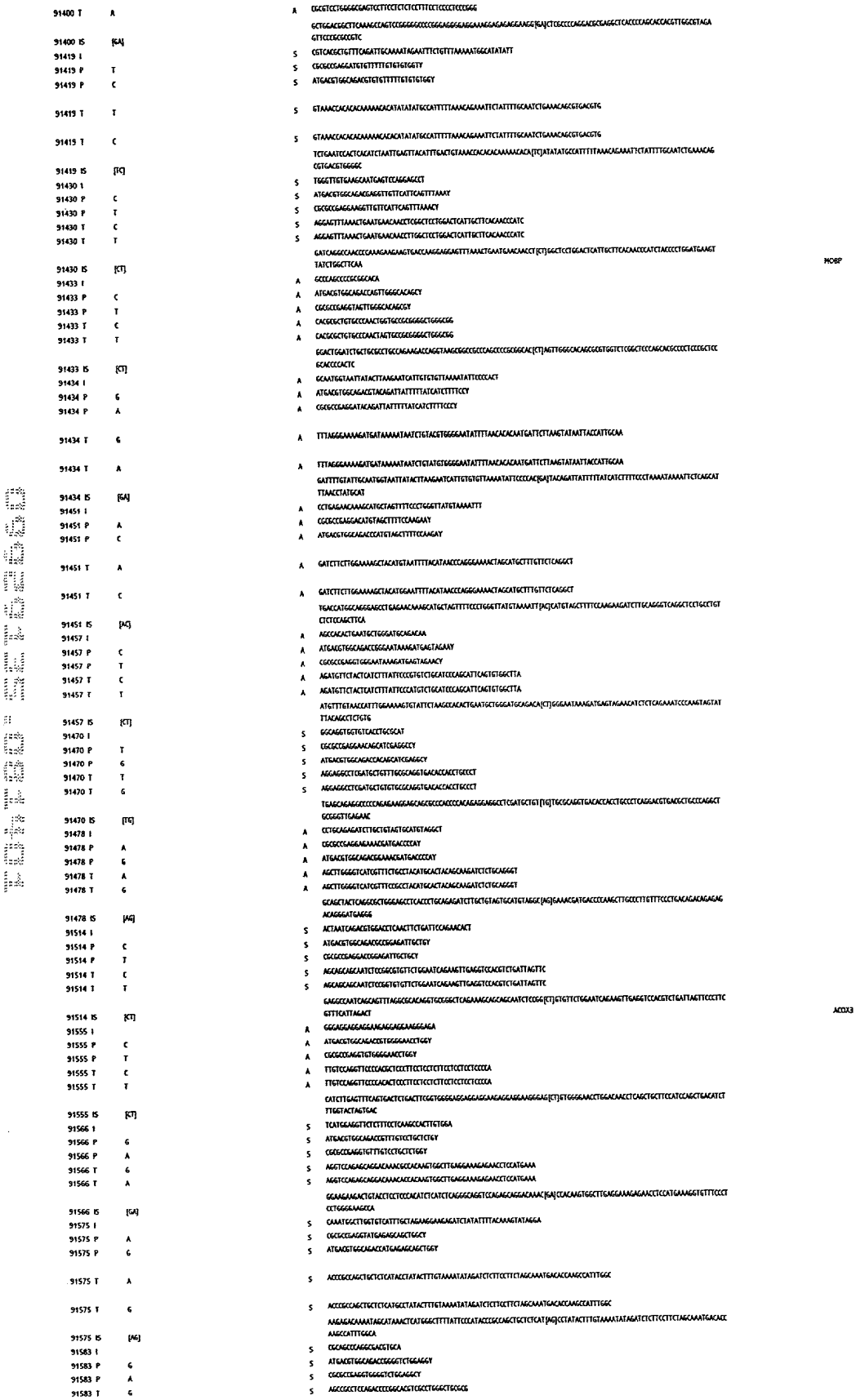


FIGURE 129C

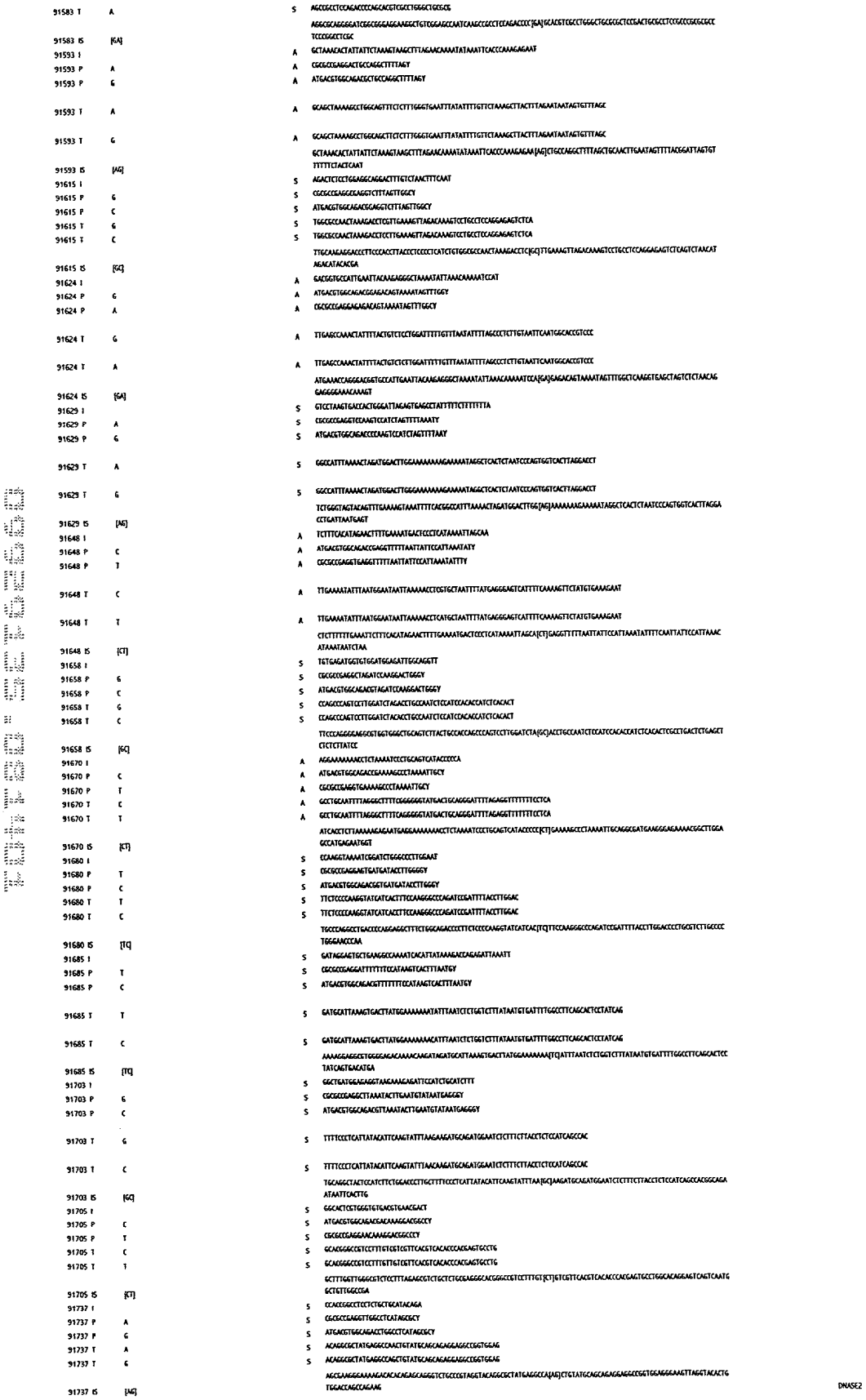
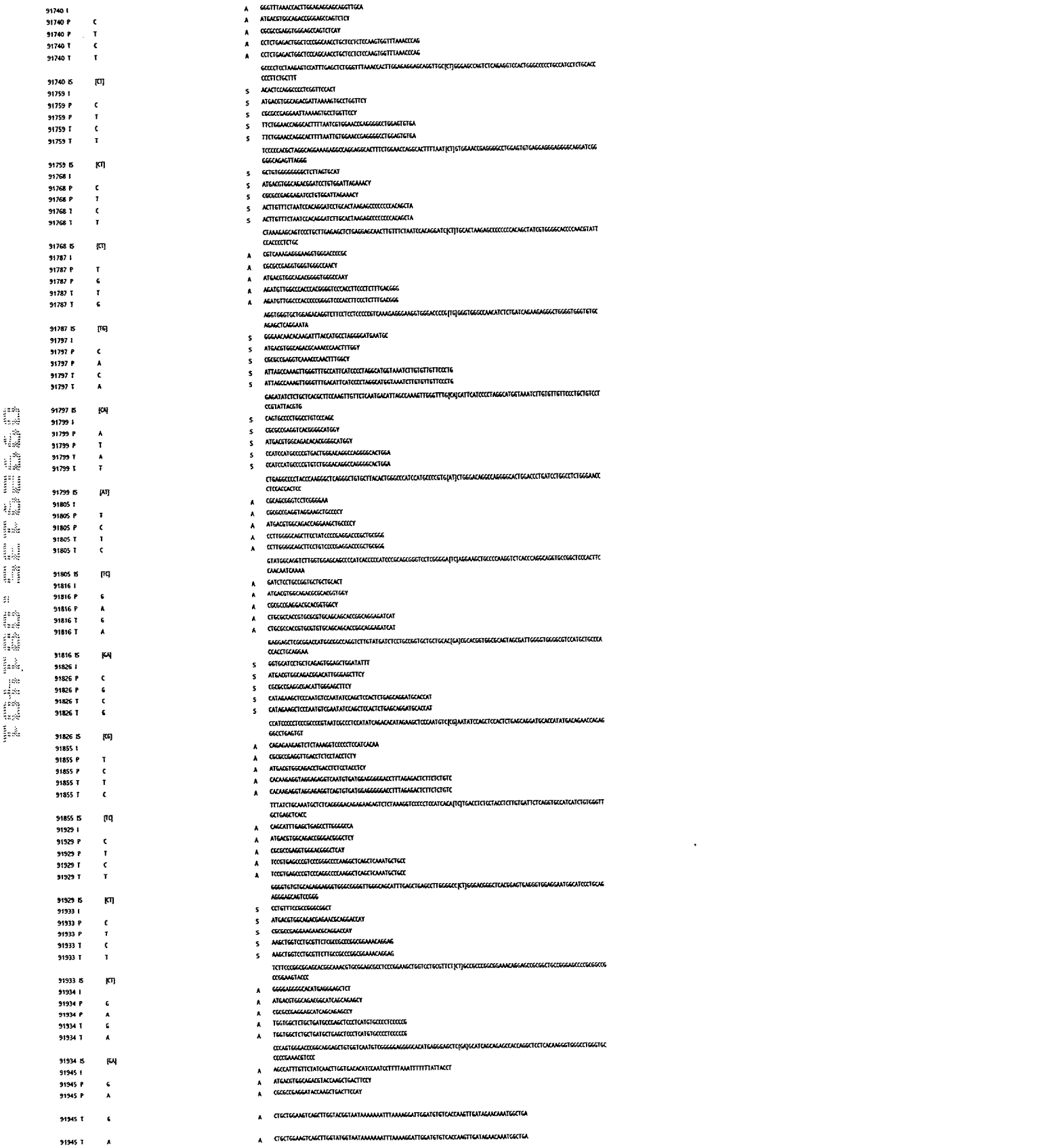


FIGURE 129C



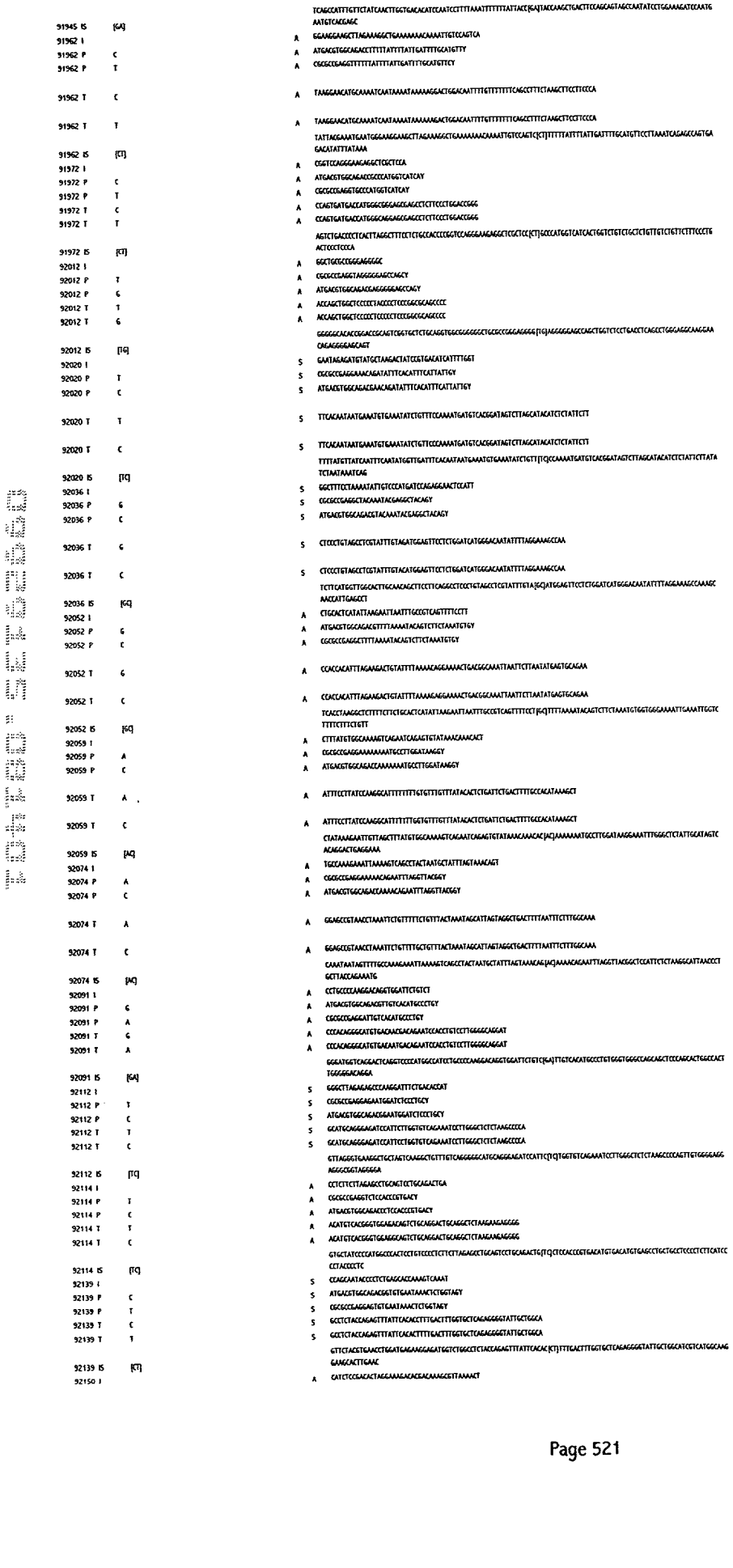


FIGURE 129C

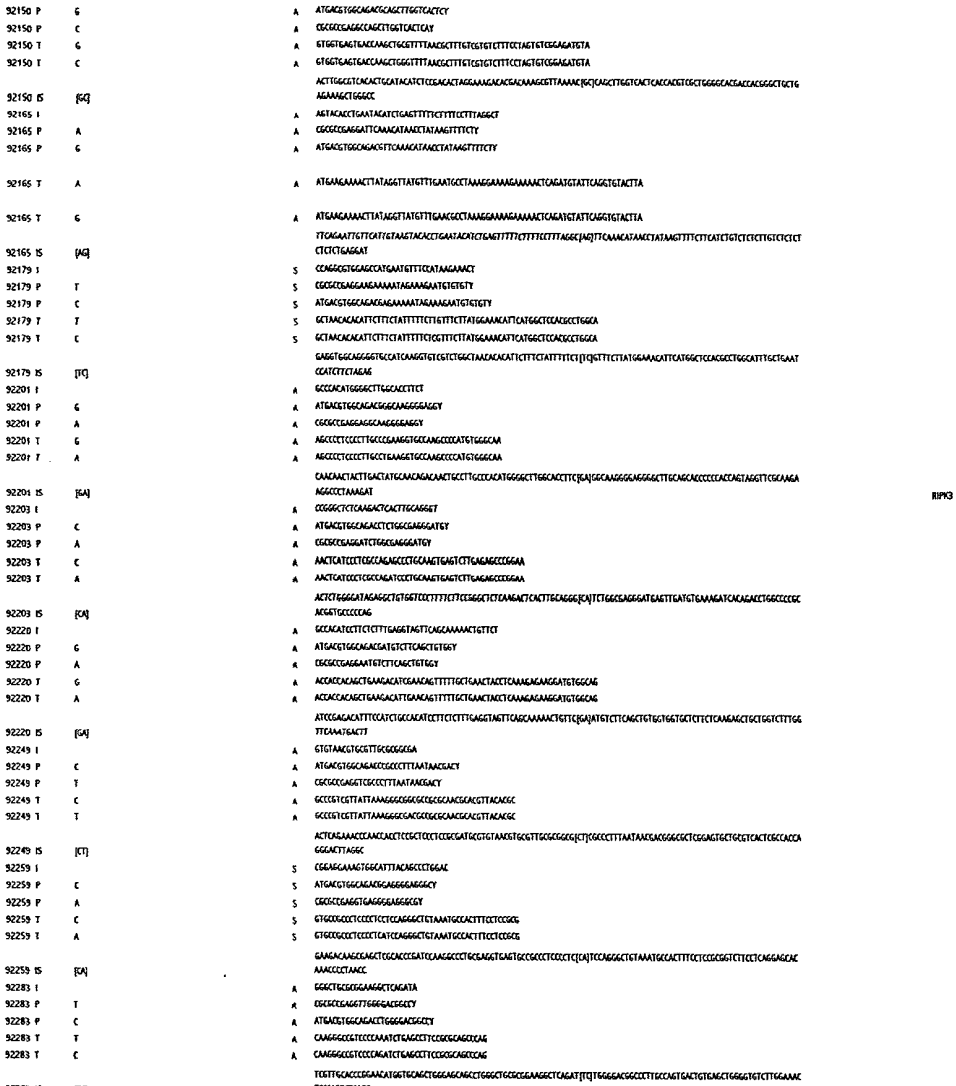
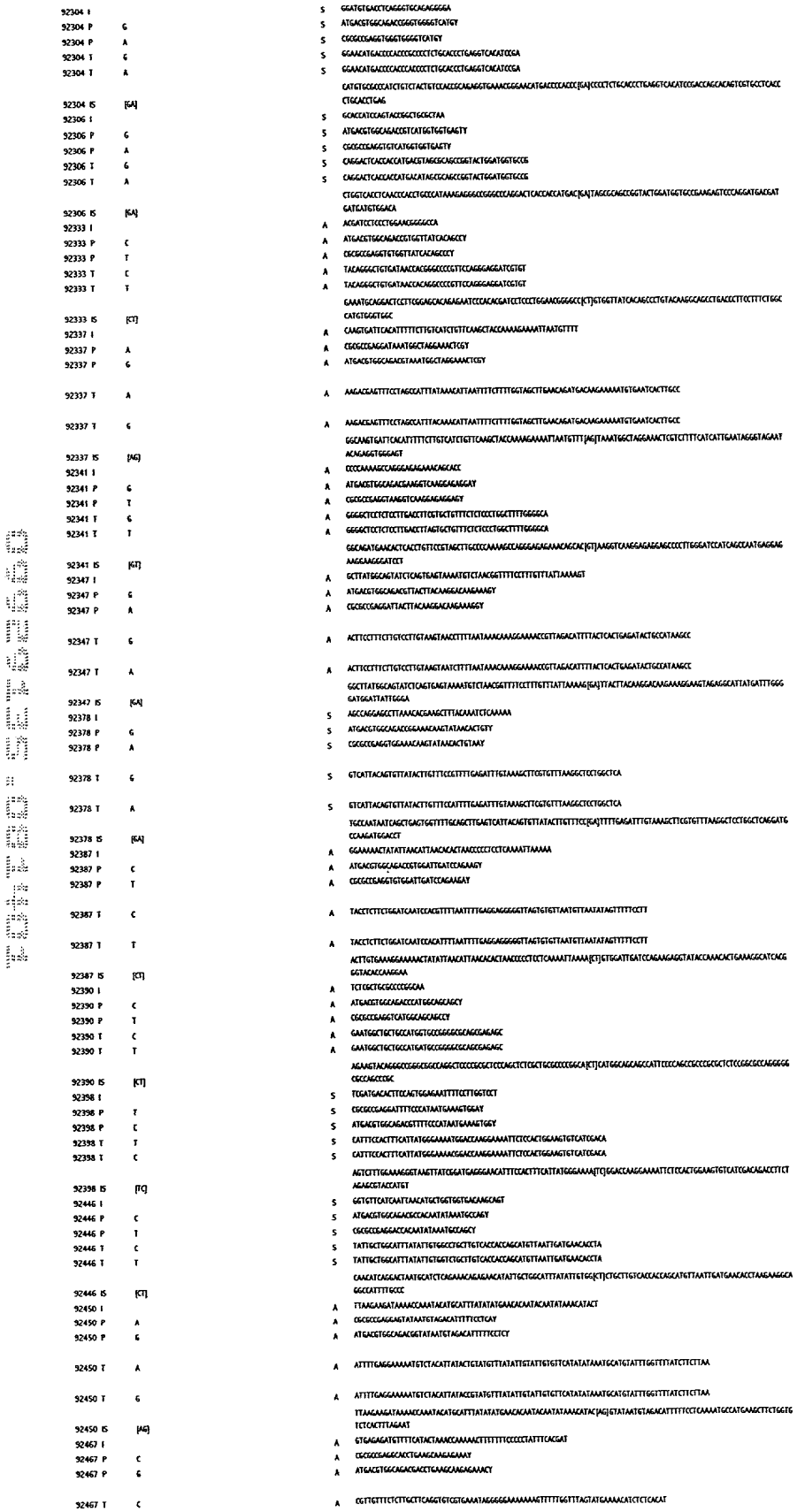


FIGURE 129C



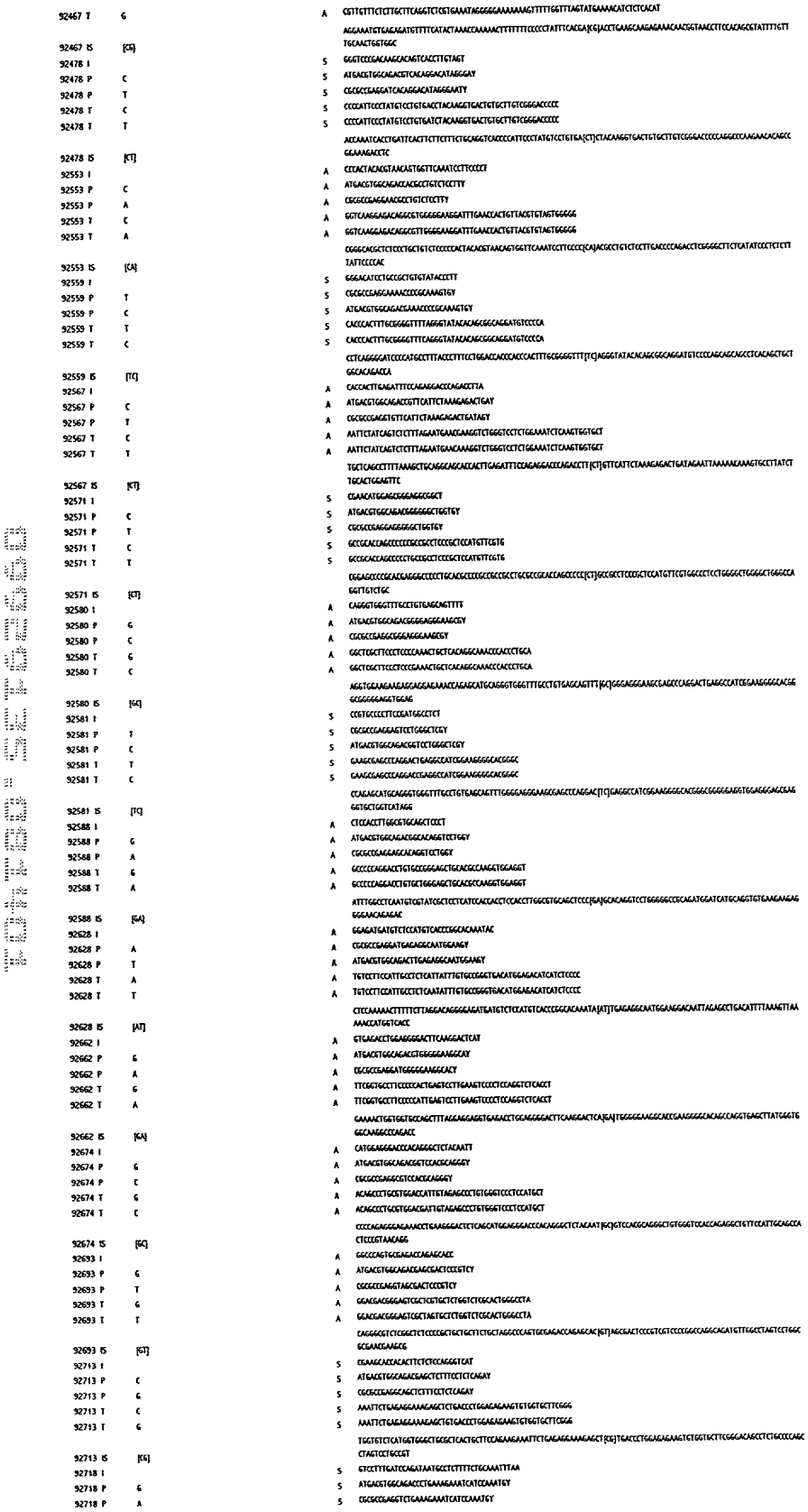


FIGURE 129C

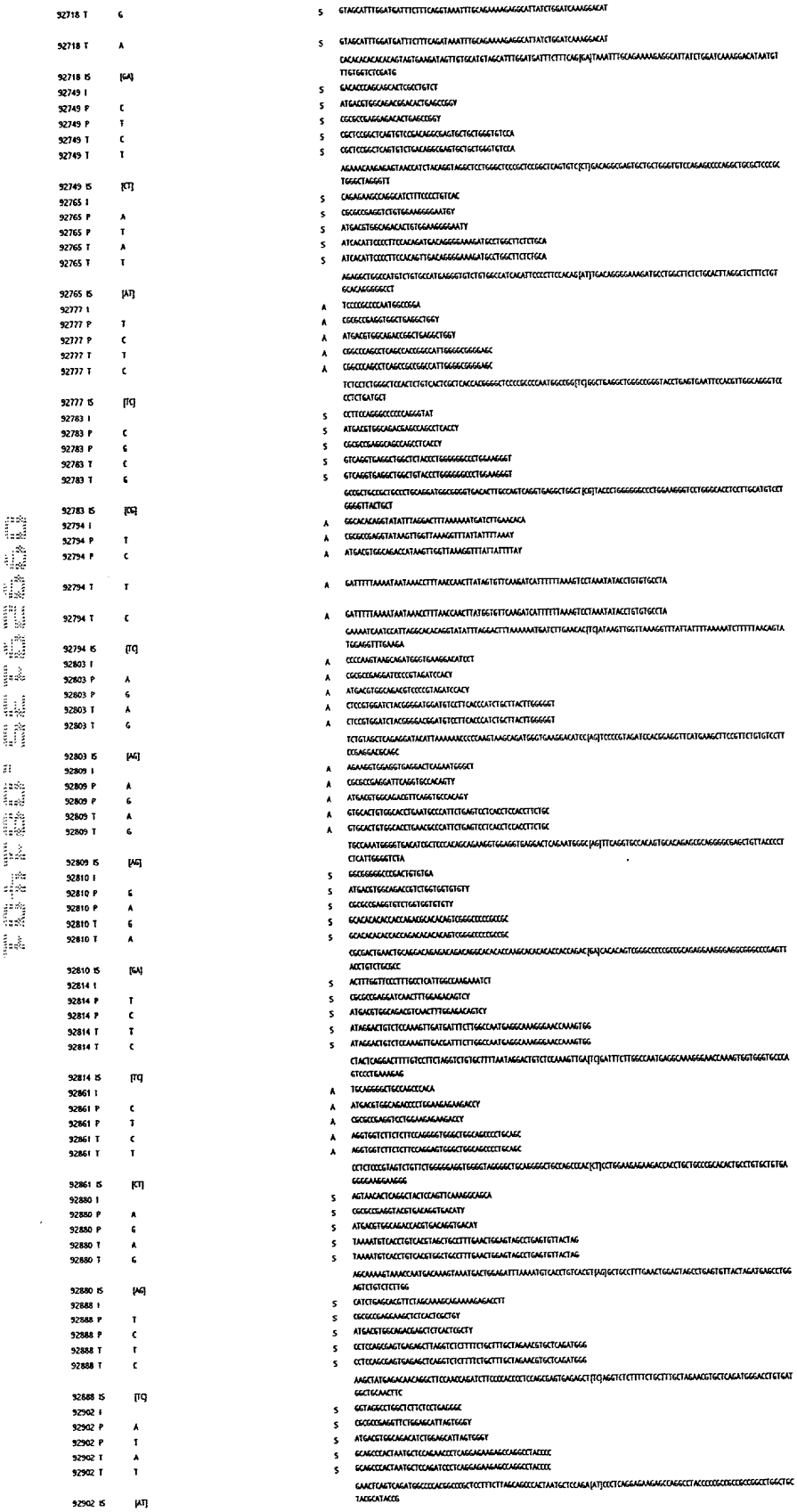


FIGURE 129C

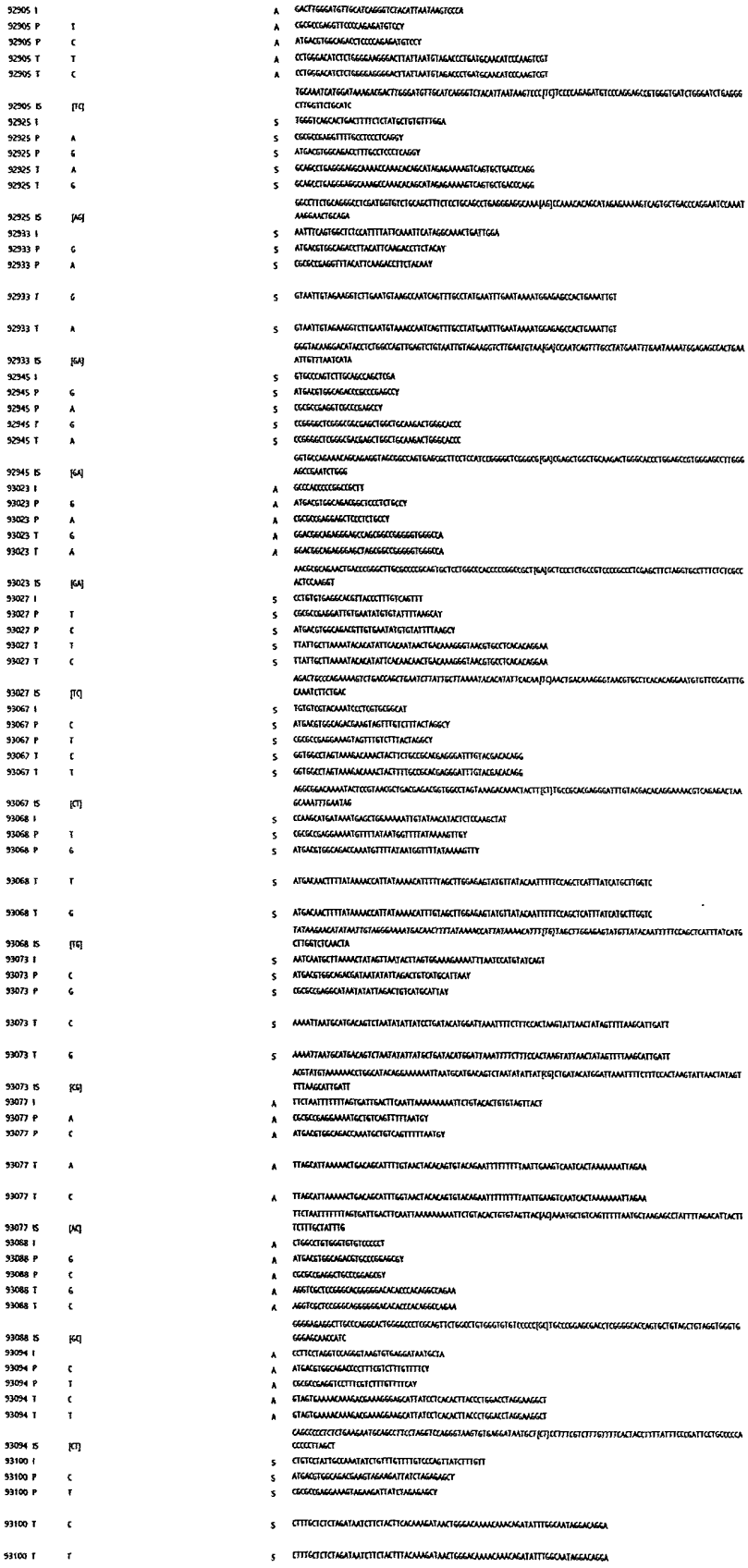

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92905 P T A CGCGCCGAGGTTCCCCAGAGAATGTCCY
92905 P C A ATGACGTGGCAGACCTCCCCAGAGATGTCCY
92905 T T A CCTGGGACATCTCTGGGGAAGGGACTTATTAATGTAGACCCTGATGCAACATCCCAAGTCGT
92905 T C A CCTGGGACATCTCTGGGGAAGGGACTTATTAATGTAGACCCTGATGCAACATCCCAAGTCGT
92905 IS [TC] TGCAAATCATGGATAAAGACGACTTGGGATGTTGCATCAGGGTCTACATTAATAAGTCCC[TC]TCCCCAGAGATGTCCCAGGAGCCGTGGGTGATCTGGGATCTGAGGG CTTGGTTCTGCATC
92925 I S AATTTCAGTGGCTCTCCATTTTATTCAAATTCATAGGCAAACTGATTGGA
92925 P A S TGGGTCAGCACTGACTTTTCTCTATGCTGTGTTTGGA
92925 P G S CGCGCCGAGGTTTTGCCTCCCTCAGGY
92925 P A S ATGACGTGGCAGACCTTTGCCTCCCTCAGGY
92925 T A S GCAGCCTGAGGGAGGCAAAACCAAACACAGCATAGAGAAAAGTCAGTGCTGACCCAGG
92925 T G S GCAGCCTGAGGGAGGCAAAGCCAAACACAGCATAGAGAAAAGTCAGTGCTGACCCAGG
92925 IS [AG] GGCCTTCTGCAGGGCCTCGATGGTGCTCTGCAGCTTTCTCCTGCAGCCTGAGGGAGGCAAA[AG]CCAAACACAGCATAGAGAAAAGTCAGTGCTGACCCAGGAATCCAAAT AAGGAACTGCAGA
92933 I S ATGACGTGGCAGACCTTACATTCAAGACCTTCTACAY
92933 P G S ATGACGTGGCAGACCTTACATTCAAGACCTTCTACAY
92933 P A S CGCGCCGAGGTTTACATTCAAGACCTTCTACAAY
92933 T G S GTAATTGTAGAAGGTCTTGAATGTAAGCCAATCAGTTTGCCTATGAATTTGAATAAAATGGAGAGCCACTGAAATTGT
92933 T A S GTAATTGTAGAAGGTCTTGAATGTAAACCAATCAGTTTGCCTATGAATTTGAATAAAATGGAGAGCCACTGAAATTGT
92933 IS [GA] GGGTACAAGGACATACCTCTGGCCAGTTGAGTCTGTAATTGTAGAAGGTCTTGAATGTAA[GA]CCAATCAGTTTGCCTATGAATTTGAATAAAATGGAGAGCCACTGAA ATTGTTTAATCATA
92945 I S GTGCCCAGTCTTGCAGCCAGCTCSA
92945 P G S ATGACGTGGCAGACCCGCCCGAGCCY
92945 P A S CGCGCCGAGGTCGCCCCAGCCY
92945 T G S CCGGGGCTCGGGCGCGCAGCTGGCTGCAAGACTGGGCACCC
92945 T A S CCGGGGCTCGGGCGACGAGCTGGCTGCAAGACTGGGCACCC
92945 IS [GA] GGTGCCAGAAACAGCAGAGGTAGCGGCCAGTGAGCGCTTCCTCCATCCGGGGCTCGGGCG[GA]CGAGCTGGCTGCAAGACTGGGCACCCTGGAGCCGTGGGAGCCTTGGG AGCCGAATCTGGG
93023 I A GCCCACCCCCGGCCGCTT
93023 P G A ATGACGTGGCAGACGGCTCCCCTCTGCCY
93023 P A A CGCGCCGAGGAGCTCCCTCTGCCY
93023 T G A GGACGGCAGAGGGAGCCAGCGGCCGGGGGTGGGCCA
93023 T A A GGACGGCAGAGGGAGCTAGCGGCCGGGGGTGGGCCA
93023 IS [GA] AACGCGCAGAACTGACCCGGGCTTGCGCCCCGCAGTGCTCCTGGCCCACCCCCGGCCGCT[GA]GCTCCCTCTGCCGTCCCCGCCCTCGAGCTTCTAGGTGCCTTTCTCTCGCC ACTCCAAGGT
93027 I S CCTGTGTGAGGCAGGTTACCCTTTGTCAGTTT
93027 P T S CGCGCCGAGGATTGTGAATATGTGTATTTTAAGCAY
93027 P C S ATGACGTGGCAGACGTTGTGAATATGTGTATTTTAAGCY
93027 T T S TTATTGCTTAAAATACACATATTCACAATAACTGACAAAGGGTAACGTGCCTCACACAGGAA
93027 T C S TTATTGCTTAAAATACACATATTCACAACAACTGACAAAGGGTAACGTGCCTCACACAGGAA
93027 IS [TC] AGACTGCCCAGAAAAGTCTGACCAGCTGAATCTTATTGCTTAAAATACACATATTCACAA[TC]AACTGACAAAGGGTAACGTGCCTCACACAGGAATGTGTTTCGCATTTG CAAATCTTCTGAC
93067 I S TGTGTCGTACAAATCCCTCGTCGCGCAT
93067 P C S ATGACGTGGCAGACGAAGTAGTTTGTCTTTACTAGGCY
93067 P T S CGCGCCGAGGAAAGTAGTTTGTCTTTACTAGGCY
93067 T C S GGTGGCCTAGTAAAGACAAACTACTCTGCCGCAGAGGGATTTGTACGACACAGG
93067 T T S GGTGGCCTAGTAAAGACAAACTACTTTTGCCGCAGAGGGATTTGTACGACACAGG
93067 IS [CT] AGGCGGACAAAATACTCCGTAAGGCTGACGAGACGGTGGCCTAGTAAAGACAAACTACTT[CT]TGCCGCAGAGGGATTTGTACGACACAGGAAAAGCGTCAGAGACTAA GCAAATTTGAATAG
93068 I S CCAAGCATGATAAATGAGCTGGAAAAATTGTATAACATACTCTCCAAGCTAT
93068 P T S CGCGCCGAGGAAAATGTTTTATAATGGTTTTATAAAAGTTGY
93068 P G S ATGACGTGGCAGACCAAATGTTTTATAATGGTTTTATAAAAGTTY
93068 T T S ATGACAACTTTTATAAAACCATTATAAAACATTTTAGCTTGGAGAGTATGTTATACAAATTTTTCCAGCTCATTTATCATGCTTGGTC
93068 T G S ATGACAACTTTTATAAAACCATTATAAAACATTTGTAGCTTGGAGAGTATGTTATACAAATTTTTCCAGCTCATTTATCATGCTTGGTC
93068 IS [TG] TATAAGAACATATAATTGTAGGGAAAATGACAACTTTTATAAAACCATTATAAAACATTT[TG]TAGCTTGGAGAGTATGTTATACAAATTTTTCCAGCTCATTTATCATG CTTGGTCTCAACTA
93073 I S AATCAATGCTTAAAACTATAGTTAATACTTAGTGGAAAGAAAATTTAATCCATGTATCAGT
93073 P C S ATGACGTGGCAGACGATAATATATTAGACTGTCATGCATTAAY
93073 P G S CGCGCCGAGGCATAATATATTAGACTGTCATGCATTAY
93073 T C S AAAATTAATGCATGACAGTCTAATATATTATCCTGATACATGGATTAAATTTTCTTTCCACTAAGTATTAACTATAGTTTTAAGCATTGATT
93073 T G S AAAATTAATGCATGACAGTCTAATATATTATGCTGATACATGGATTAAATTTTCTTTCCACTAAGTATTAACTATAGTTTTAAGCATTGATT
93073 IS [CG] AGGTATGTAAAAAACCTGGCATACAGGAAAAAATTAATGCATGACAGTCTAATATATTATTA[CG]CTGATACATGGATTAAATTTTCTTTCCACTAAGTATTAACTATAGT TTTAAGCATTGATT
93077 I A TTCTAATTTTTTTAGTGATTGACTTCAATTAAAAAAAAATTCTGTACACTGTGTAGTTACT
93077 P A A CGCGCCGAGGAAAATGCTGTCAGTTTTAATGY
93077 P C A ATGACGTGGCAGACCAAATGCTGTCAGTTTTAATGY
93077 T A A TTAGCATTAAAAACTGACAGCATTTTGTAACTACACAGTGTACAGAATTTTTTTTTAATTGAAGTCAATCACTAAAAAAATTAGAA
93077 T C A TTAGCATTAAAAACTGACAGCATTTTGGTAACTACACAGTGTACAGAATTTTTTTTTAATTGAAGTCAATCACTAAAAAAATTAGAA
93077 IS [AC] TTCTAATTTTTTTAGTGATTGACTTCAATTAAAAAAAAATTCTGTACACTGTGTAGTTACTAC[AA]AAATGCTGTCAGTTTTTAATGCTAAGAGCCTATTTTAGACATTACTT TCTTTGCTATTTG
93088 I A CTGGCCTGTGGGTGTGTCCCCCT
93088 P G A ATGACGTGGCAGACGTGCCCGCAGCGY
93088 P C A CGCGCCGAGGCTGCCCCGAGCGY
93088 T G A AGGTCGCTCCCGGCCACGGGGGCACACACCCACAGGCCAGAA
93088 T C A AGGTCGCTCCCGGCCAGGGGGCACACACCCACAGGCCAGAA
93088 IS [GC] GGGGAGAGGCTTGCCCAGGCACTGGGGCCCTCGCAGTCTGGCCTGTGGGTGTGTCCCCC[GC]TGCCCGGAGGCACCTCGGGGCACCAGTGCTGTAGCTGTAGGTGGGTG GGGAGCAACCATC
93094 I A CCTTCCTAGGTCCAGGGTAAGTGTCAGGGATAATGCTA
93094 P C A ATGACGTGGCAGACCCCTTTCGTCTTTGTTTTCY
93094 P T A CGCGCCGAGGTCCTTTCGTCTTTGTTTTCAY
93094 T C A GTAGTGAAAACAAAGACGAAAGGGAGCATTATCCTCACACTTACCCTGGACCTAGGAAGGCT
93094 T T A GTAGTGAAAACAAAGACGAAAGGAAGCATTATCCTCACACTTACCCTGGACCTAGGAAGGCT
93094 IS [CT] CAGCCCCCTCCTCTGAAGAATGCAGCCTTCCTAGCTCCAGGGTAAGTGTGAGGATAATGCT[CT]CCTTTCGTCTTTGTTTTCACTACCTTTTATTTCCCGATTCGTGCCCCA CCCCCTTAGCT
93100 I S CTGTCCTATTGCCAAATATCTGTTTGTTTTGTCCCAGTTATCTTTGTT
93100 P C S ATGACGTGGCAGACGAAGTAGAAGATTATCTAGAGAAGCY
93100 P T S CGCGCCGAGGAAAGTAGAAGATTATCTAGAGAAGCY
93100 T C S CTTTGCTCTCTAGATAATCTTCTACTTCACAAAGATAACTGGGACAAACAAACAGATATTTGGCAATAGGACAGGA
93100 T T S CTTTGCTCTCTAGATAATCTTCTACTTTACAAAGATAACTGGGACAAACAAACAGATATTTGGCAATAGGACAGGA

FIGURE 129C

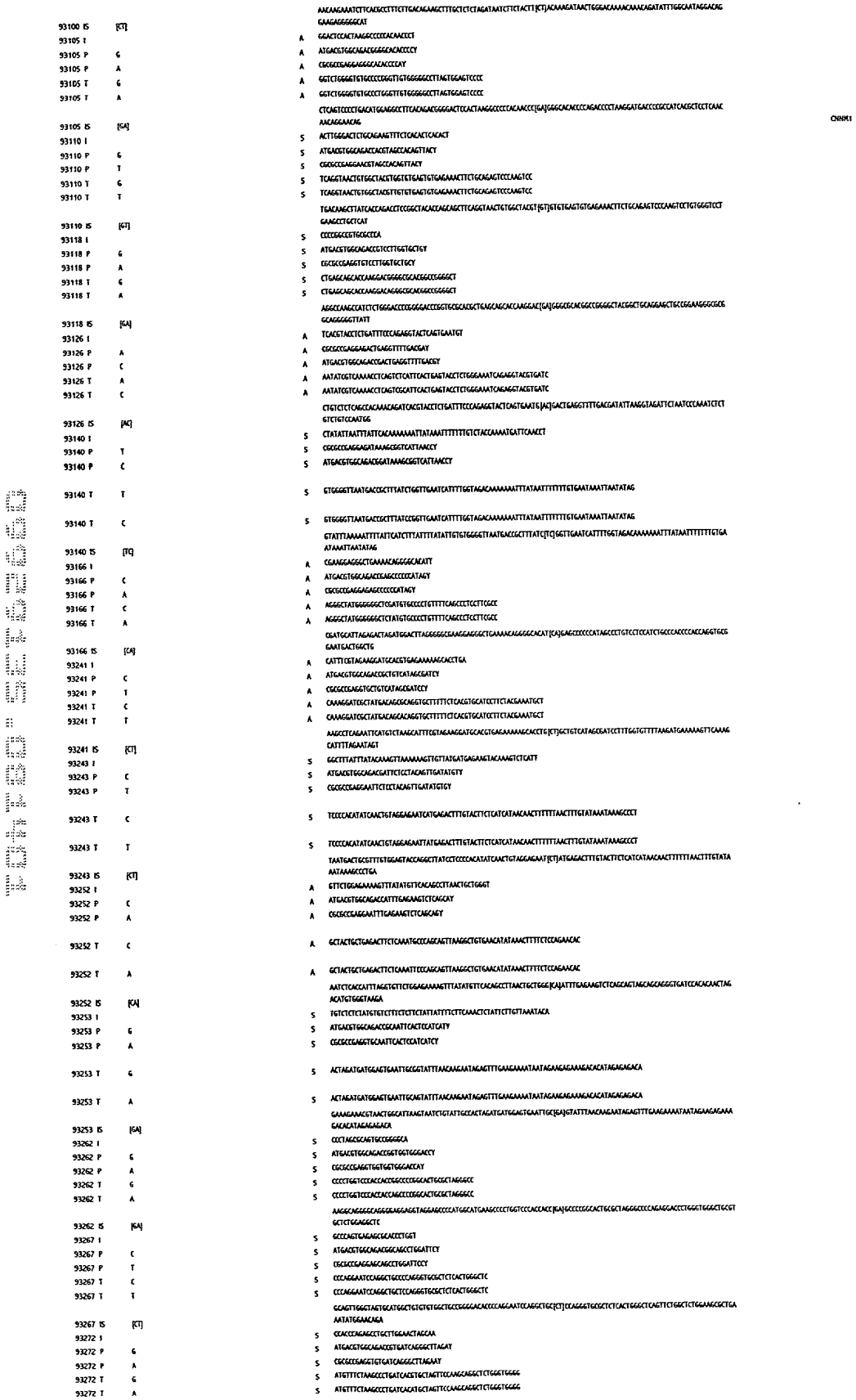


FIGURE 129C

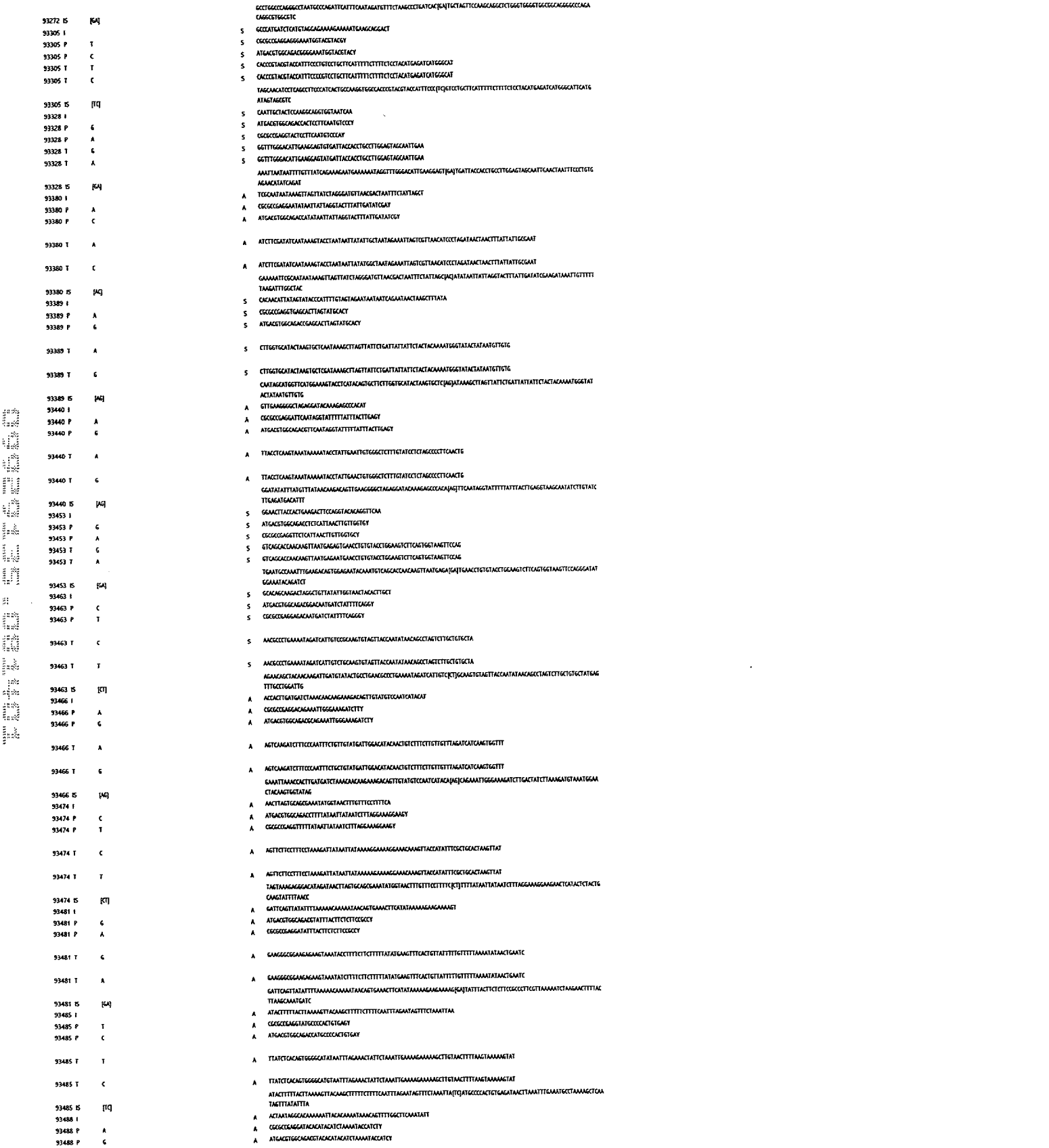


FIGURE 129C

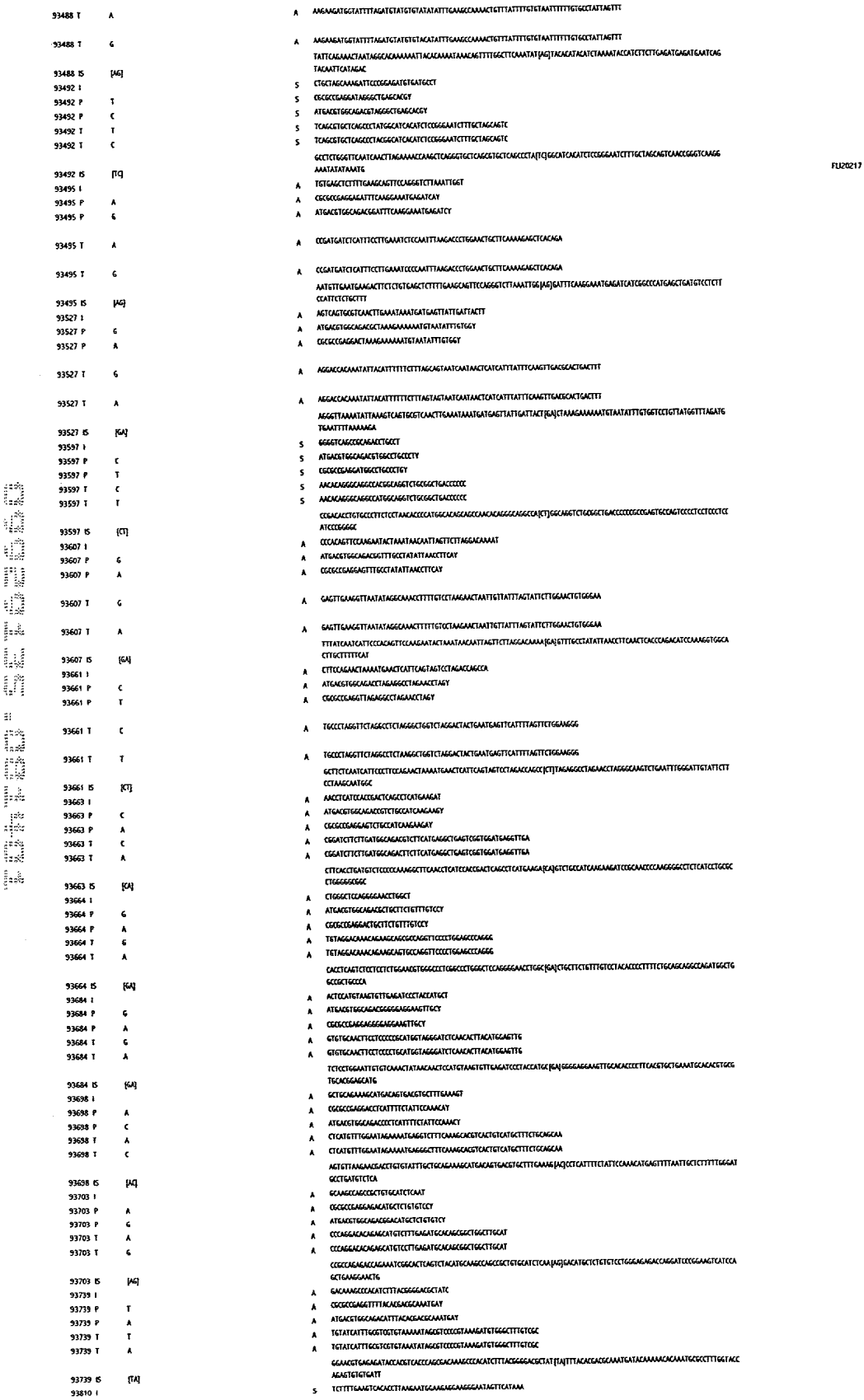


FIGURE 129C

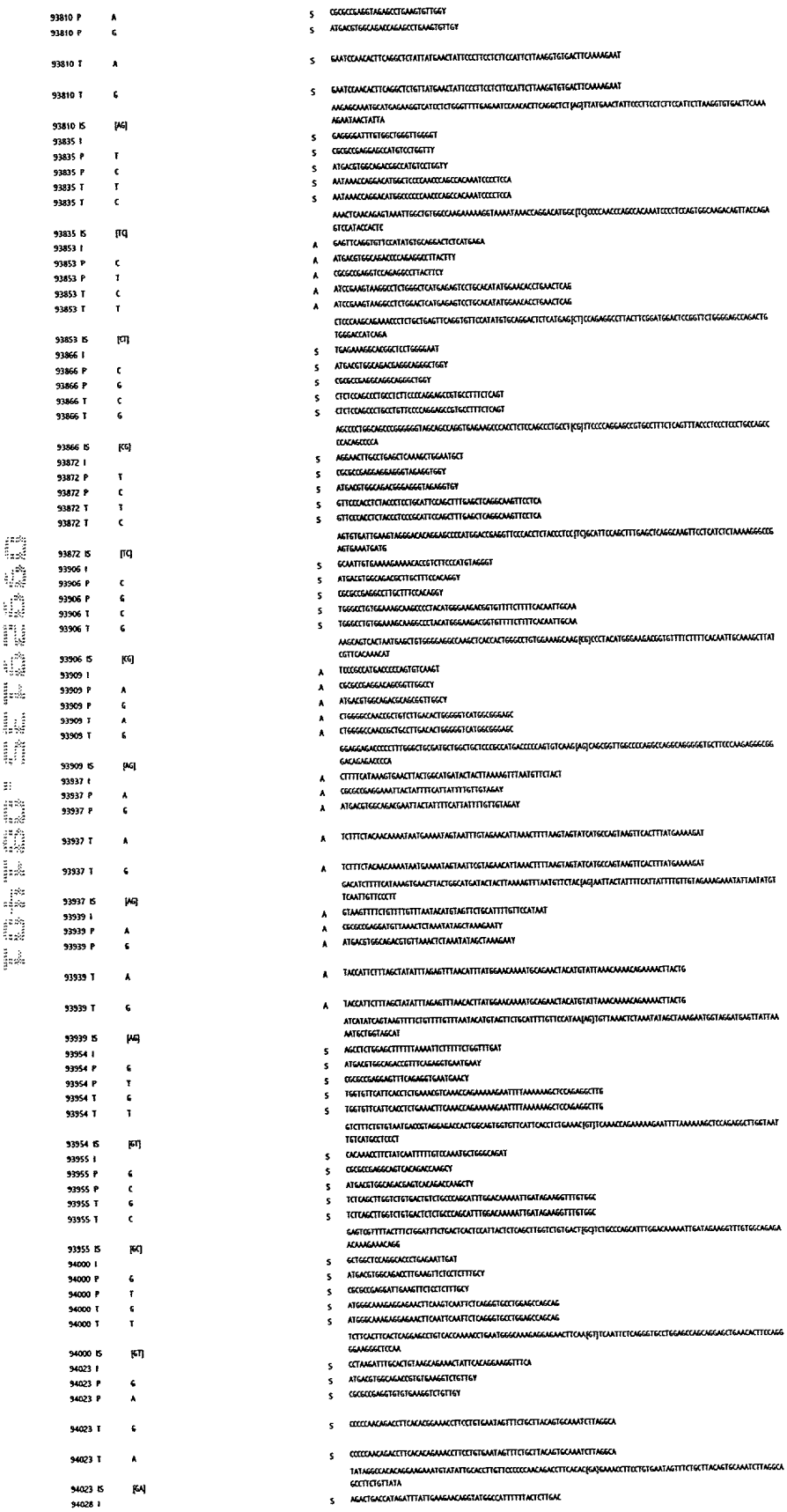
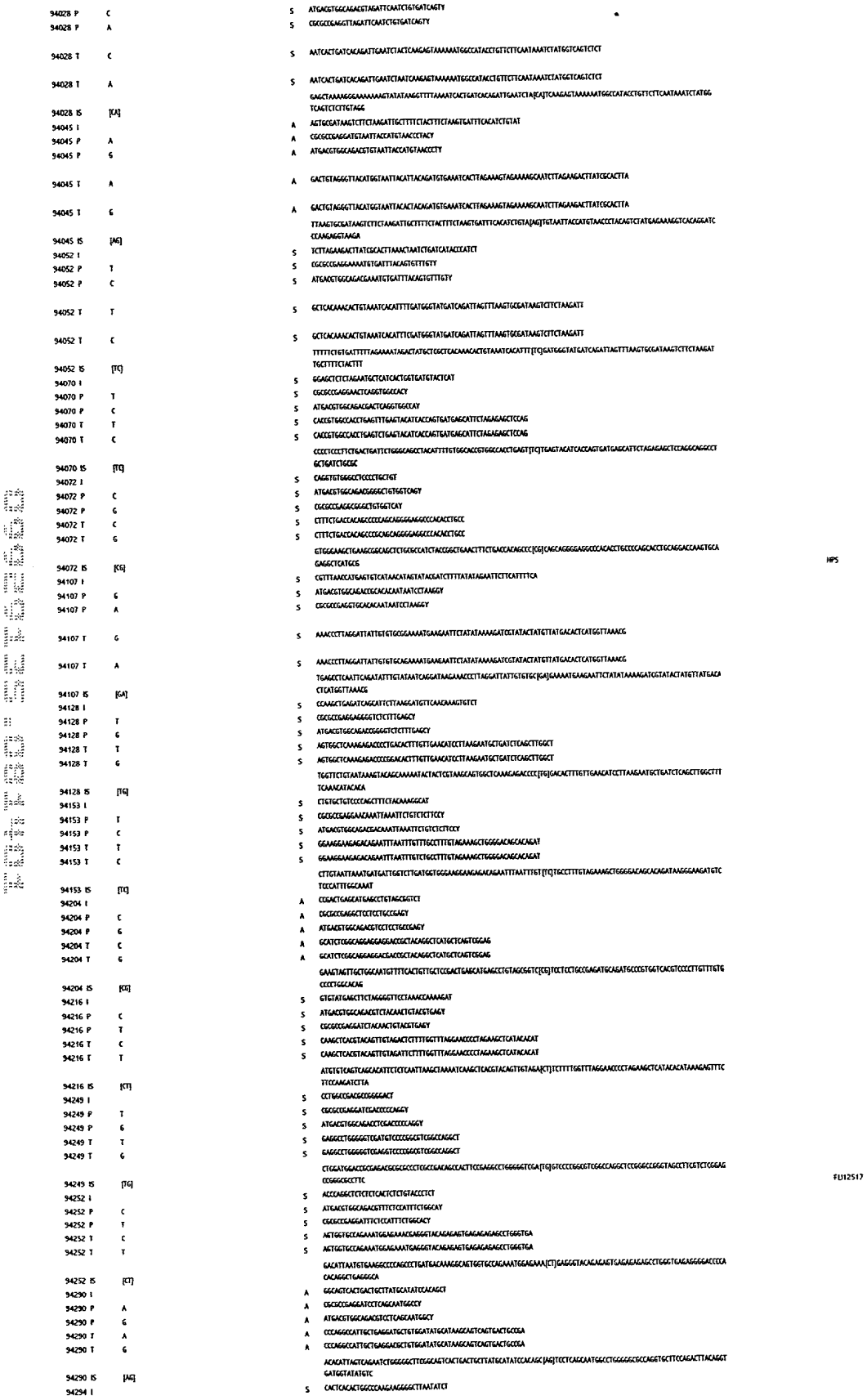
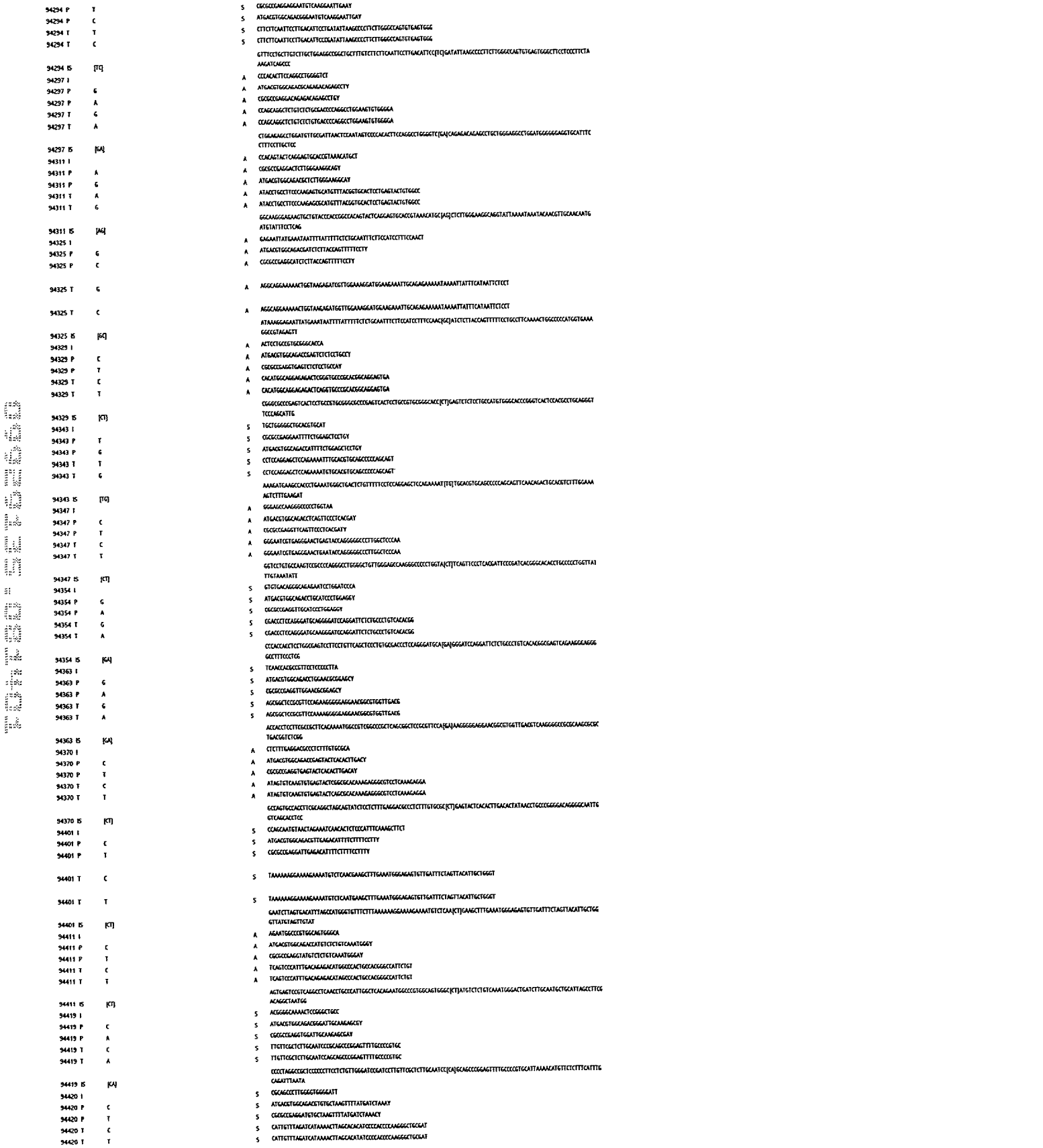


FIGURE 129C


94028 P C S ATGACGTGGCAGACGTAGATTCAATCTGTGATCAGTY
94028 P A S CGCGCCGAGGTTAGATTCAATCTGTGATCAGTY
94028 T C S AATCACTGATCACAGATTGAATCTACTCAAGAGTAAAAAATGGCCATACCTGTTCTTCAATAAATCTATGGTCAGTCTCT
94028 T A S AATCACTGATCACAGATTGAATCTAATCAAGAGTAAAAAATGGCCATACCTGTTCTTCAATAAATCTATGGTCAGTCTCT
GAGCTAAAAGGCAAAAAAAGTATATAAGGTTTTAAAATCACTGATCACAGATTGAATCTA[CA]TCAAGAGTAAAAAATGGCCATACCTGTTCTTCAATAAATCTATGG
94028 IS [CA] TCAGTCTCTTGTAGG
94045 I A AGTGCGATAAGTCTTCTAAGATTGCTTTTCTACTTTCTAAGTGATTTCACATCTGTAT
94045 P A A CGCGCCGAGGATGTAATTACCATGTAACCCTACY
94045 P G A ATGACGTGGCAGACGTGTAATTACCATGTAACCCTY
94045 T A A GACTGTAGGGTTACATGGTAATTACATTACAGATGTGAAATCACTTAGAAAGTAGAAAAGCAATCTTAGAAGACTTATCGCACTTA
94045 T G A GACTGTAGGGTTACATGGTAATTACACTACAGATGTGAAATCACTTAGAAAGTAGAAAAGCAATCTTAGAAGACTTATCGCACTTA
TTAAGTGCGATAAGTCTTCTAAGATTGCTTTTCTACTTTCTAAGTGATTTCACATCTGTA[AG]TGTAATTACCATGTAACCCTACAGTCTATGAGAAAGGTCACAGGATC
94045 IS [AG] CCAAGAGGTAAGA
94052 I S TCTTAGAAGACTTATCGCACTTAAACTAATCTGATCATACCCATCT
94052 P T S CGCGCCGAGGAAAAATGTGATTTACAGTGTTTGTY
94052 P C S ATGACGTGGCAGACGAAATGTGATTTACAGTGTTTGTY
94052 T T S GCTCACAAACACTGTAAATCACATTTTGATGGGTATGATCAGATTAGTTTAAGTGCGATAAGTCTTCTAAGATT
94052 T C S GCTCACAAACACTGTAAATCACATTTCGATGGGTATGATCAGATTAGTTTAAGTGCGATAAGTCTTCTAAGATT
TTTTTCTGTGATTTTTAGAAAATAGACTATGCTCGCTCACAAACACTGTAAATCACATTT[TC]GATGGGTATGATCAGATTAGTTTAAGTGCGATAAGTCTTCTAAGAT
94052 IS [TC] TGCTTTTCTACTTT
94070 I S GGAGCTCTCTAGAATGCTCATCACTGGTGATGTACTCAT
94070 P T S CGCGCCCAGGAACTCAGGTGGCCACY
94070 P C S ATGACGTGGCAGACGACTCAGGTGGCCAY
94070 T T S CACCGTGGCCACCTGAGTTTGAGTACATCACCAGTGATGAGCATTCTAGAGAGCTCCAG
94070 T C S CACCGTGGCCACCTGAGTCTGAGTACATCACCAGTGATGAGCATTCTAGAGAGCTCCAG
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94070 IS [TC] GCTGATCTGCGC
94072 I S CAGGTGTGAGGCCTGCCCTGCTGT
94072 P C S ATGACGTGGCAGACGGGGCTGTGGTCAGY
94072 P G S CGCGCCGAGGCGGGCTGTGGTCAY
94072 T C S CTTTCTGACCACAGCCCCCAGCAGGGGAGGCCCACACCTGCC
94072 T G S CTTTCTGACCACAGCCCCCAGCAGGGGAGGCCCACACCTGCC
GTGGCAAGCTGAAGCGGCAGCTCTGCGCCATCTACCGGCTGAACTTCTGACCACAGCCC[CG]CAGCAGGGCAGGCCCACACCTGCCCCCAGCACCTGCAGGACCAAGTGCA
94072 IS [CG] GAGGCTCATGCG HPS
94107 I S CGTTTAACCATGAGTGTCATAACATAGTATACGATCTTTTATATAGAATTCTTCATTTTCA
94107 P G S ATGACGTGGCAGACGCACACAATAATCCTAAGGY
94107 P A S CGCGCCGAGGTGCACACAATAATCCTAAGGY
94107 T G S AAACCCTTAGGATTATTGTGTGCGGAAAATGAAGAATTCTATATAAAAGATCGTATACTATGTTATGACACTCATGGTTAAACG
94107 T A S AAACCCTTAGGATTATTGTGTGCGAGAAAATGAAGAATTCTATATAAAAGATCGTATACTATGTTATGACACTCATGGTTAAACG
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94107 IS [GA] CTCATGGTTAAACG
94128 I S CCAAGCTGAGATCAGCATTCTTAAGGATGTTCAACAAAGTGTCT
94128 P T S CGCGCCGAGGAGGGGTCTCTTTGAGCY
94128 P G S ATGACGTGGCAGACCGGGGTCTCTTTGAGCY
94128 T T S AGTGGCTCAAAGAGACCCCTGACACTTTGTTGAACATCCTTAAGAATGCTGATCTCAGCTTGGCT
94128 T G S AGTGGCTCAAAGAGACCCCGGACACTTTGTTGAACATCCTTAAGAATGCTGATCTCAGCTTGGCT
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94128 IS [TG] TCAAACATACACA
94153 I S CTGTGCTGTCCCCAGCTTTCTACAAAGGCAT
94153 P T S CGCGCCGAGGAACAAATTAAATTCTGTCTCTCCY
94153 P C S ATGACGTGGCAGACGACAAATTAAATTCTGTCTCTCCY
94153 T T S GGAAGGAAGAGACAGAATTTAATTTGTTTGCCTTTGTAGAAAGCTGGGGACAGCACAGAT
94153 T C S GGAAGGAAGAGACAGACAAATTTAATTTGTCTGCCTTTGTAGAAAGCTGGGGACAGCACAGAT
CTTGTAATTAAATGATGATTGGTCTTGATGGTGGGAAGGAAGAGACAGAATTTAATTTGT[TC]TGCCTTTGTAGAAAGCTGGGGACAGCACAGATAAGGGAAGATGTC
94153 IS [TC] TCCCATTTGGCAAAT
94204 I A CCGACTGAGCATGAGCCTGTAGCGGTCT
94204 P C A CGCGCCGAGGCTCCTCCTGCCGAGY
94204 P G A ATGACGTGGCAGACGTCCTCCTGCCGAGY
94204 T C A GCATCTCGGCAGGAGGACGACCGCTACAGGCTCATGCTCAGTGGCAG
94204 T G A GCATCTCGGCAGGAGGACGACCGCTACAGGCTCATGCTCAGTGGCAG
GAAGTAGTTGCTGGCAATGTTTCACTGTTGCTCCGACTGAGCATGAGCCTGTAGCGGTC[CG]TCCTCCTGCCGAGATGCAGATGCCCGTGGTCACGTCCCCTTGTTTGTG
94204 IS [CG] CCCCTGGCACAG
94216 I S GTGTATGAGCTCTACAGGGGTTCCTAAACCAAAAGAT
94216 P C S ATGACGTGGCAGACGTCTACAACTGTACGTGAGY
94216 P T S CGCGCCGAGGAATCTACAACTGTACGTGAGY
94216 T C S CAAGCTCACGTACAGTTGTAGACTCTTTGGTTTAGGAACCCCTAGAAGCTCATACACAT
94216 T T S CAAGCTCACGTACAGTTGTAGATTCTTTGGTTTAGGAACCCCTAGAAGCTCATACACAT
ATGTGTCAGTCAGCACATTCTCTCAATTAAGCTAAAATCAAGCTCACGTACAGTTGTAGA[CT]TCTTTGGTTTAGGAACCCCTAGAAGCTCATACACATAAAGAGTTTC
94216 IS [CT] TTCCAAGATCTTA
94249 I S CCTGGCCGACGCGGGGGACT
94249 P T S CGCGCCGAGGATCGACCCCCAGGY
94249 P G S ATGACGTGGCAGACCTCGACCCCCAGGY
94249 T T S GAGGCCTGGGGGTCGATGTCCCCGGCGTCGGCCAGGCT
94249 T G S GAGGCCTGGGGGTCGAGGTCCCCGGCGTCGGCCAGGCT
CTGGATGGACCGCGAGACGCGGCGCCCTCGCCGACAGCCACTTCCGAGGCCTGGGGGTCGA[TG]GTCCCCGGCGTCGGCCAGGCTCCGGCCCGGGTAGCCTTCGTCTCGGAG
94249 IS [TG] CCGGGCGCCTTC FU12517
94252 I S ACCCAGGCTCTCTCTCACTCTCTGTACCCTCT
94252 P C S ATGACGTGGCAGACGTTTCTCCATTTCTGGCAY
94252 P T S CGCGCCGAGGATTTCTCCATTTCTGGCACY
94252 T C S AGTGGTGCCAGAAATGGAGAAACCAGGGTACAGAGAGTGAGAGAGAGCCTGGGTGA
94252 T T S AGTGGTGCCAGAAATGGAGAAATGAGGGTACAGAGAGTGAGAGAGAGCCTGGGTGA
GACATTAATGTGAAGCCCCAGCCCTGATGACAAAGGCAGTGGTGCCAGAAATGGAGAAA[CT]GAGGGTACAGAGAGTGAGAGAGAGCCTGGGTGAGAGGGGAACCCA
94252 IS [CT] CACAGGCTGAGGCA
94290 I A GGCAGTCACTGACTGCTTATGCATATCCACAGCT
94290 P A A CGCGCCGAGGATCCTCAGCAATGGCCY
94290 P G A ATGACGTGGCAGACGTCCTCAGCAATGGCY
94290 T A A CCCAGGCCATTGCTGAGGATGCTGTGGATATGCATAAGCAGTCAGTGACTGCCGA
94290 T G A CCCAGGCCATTGCTGAGGACGCTGTGGATATGCATAAGCAGTCAGTGACTGCCGA
ACACATTAGTCAGAATCTGGGGGGCTTCGGCAGTCACTGACTGCTTATGCATATCCACAGC[AG]TCCTCAGCAATGGCCTGGGGGCGCCAGGTGCTTCCAGACTTACAGGT
94290 IS [AG] GATGGTATATGTC
94294 I S CACTCACACTGGCCCAAGAAGGGGCTTAATATCT


94294 P T
94294 P C
94294 T T
94294 T C
94294 IS [TC]
94297 I
94297 P G
94297 P A
94297 T G
94297 T A
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94311 I
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94311 P G
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94311 T G
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94325 P C
94325 T G
94325 T C
94325 IS [GC]
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94329 P C
94329 P T
94329 T C
94329 T T
94329 IS [CT]
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94343 P G
94343 T T
94343 T G
94343 IS [TG]
94347 I
94347 P C
94347 P T
94347 T C
94347 T T
94347 IS [CT]
94354 I
94354 P G
94354 P A
94354 T G
94354 T A
94354 IS [GA]
94363 I
94363 P G
94363 P A
94363 T G
94363 T A
94363 IS [GA]
94370 I
94370 P C
94370 P T
94370 T C
94370 T T
94370 IS [CT]
94401 I
94401 P C
94401 P T
94401 T C
94401 T T
94401 IS [CT]
94411 I
94411 P C
94411 P T
94411 T C
94411 T T
94411 IS [CT]
94419 I
94419 P C
94419 P A
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94420 T T

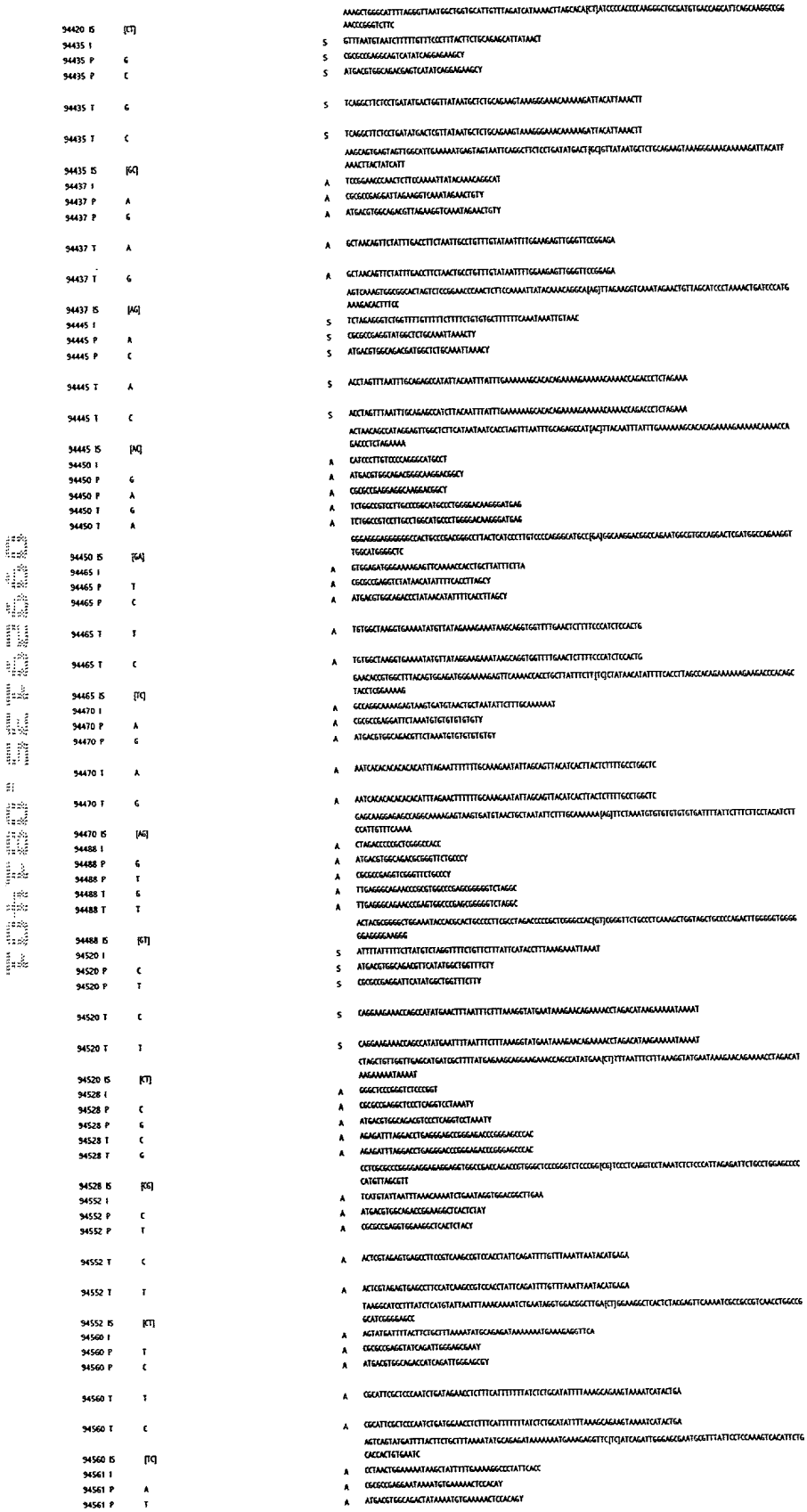

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94435 T G
94435 T C
94435 IS [GC]
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94437 P G
94437 T A
94437 T G
94437 IS [AG]
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94445 P C
94445 T A
94445 T C
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94450 P G
94450 P A
94450 T G
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94465 P C
94465 T T
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FIGURE 129C

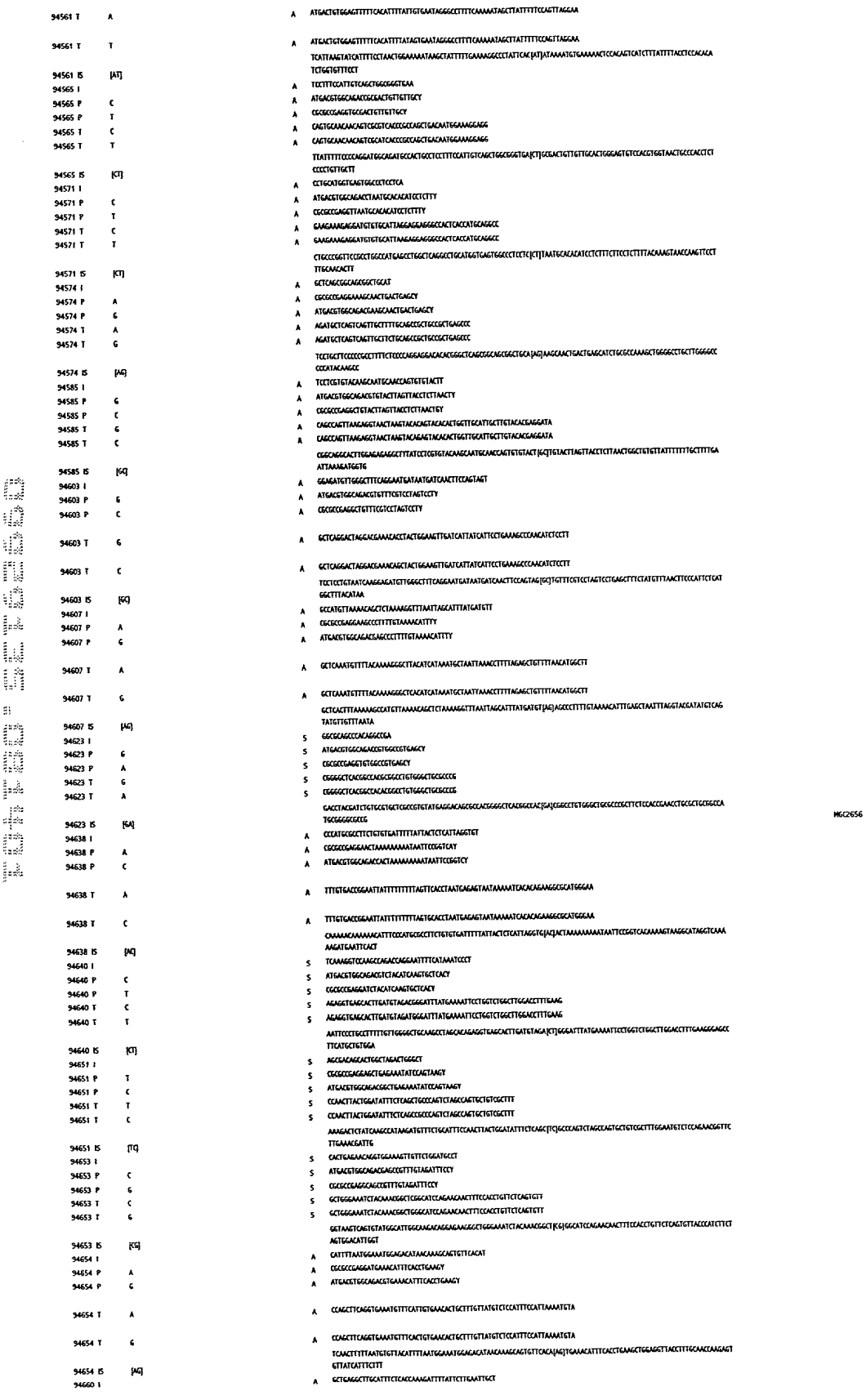


FIGURE 129C

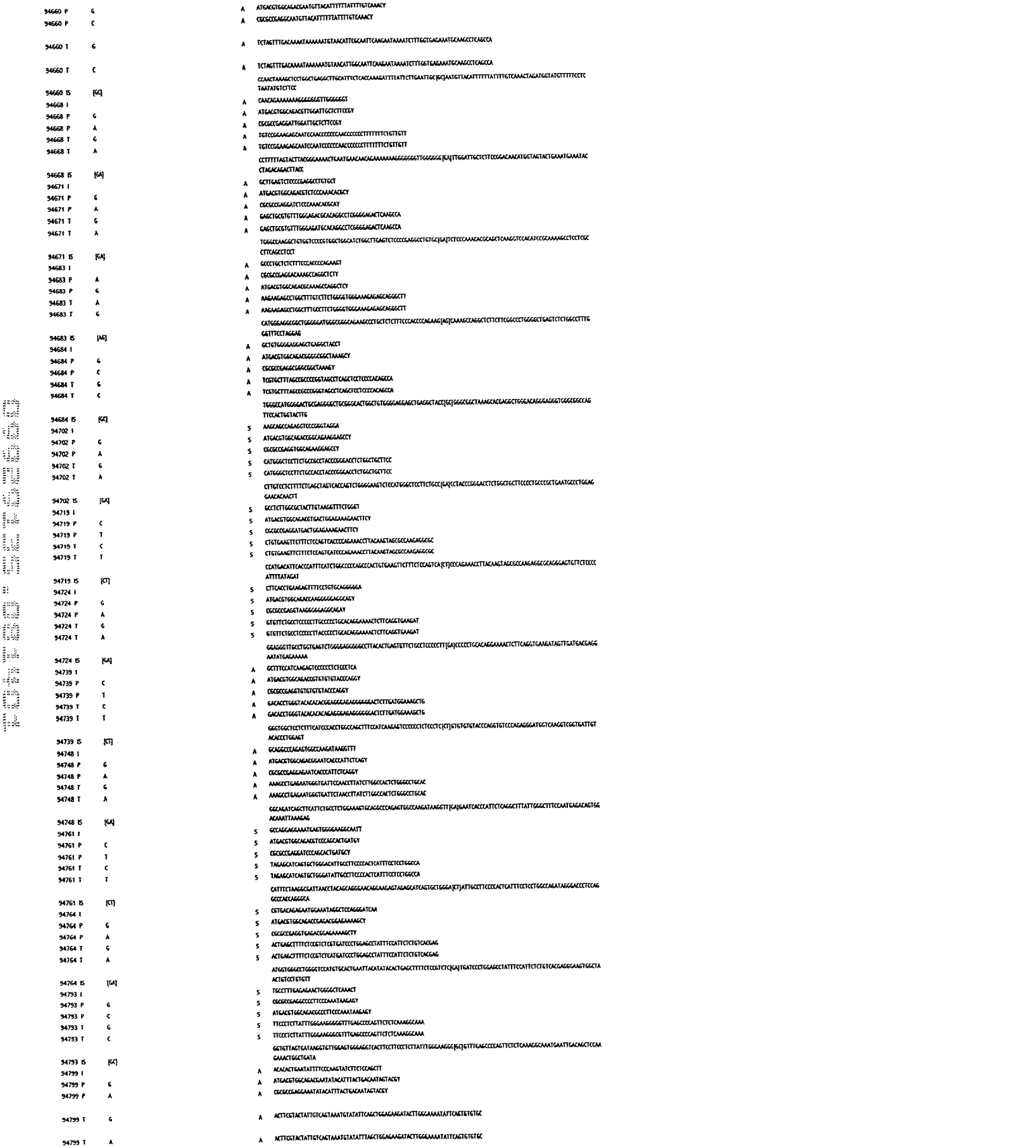
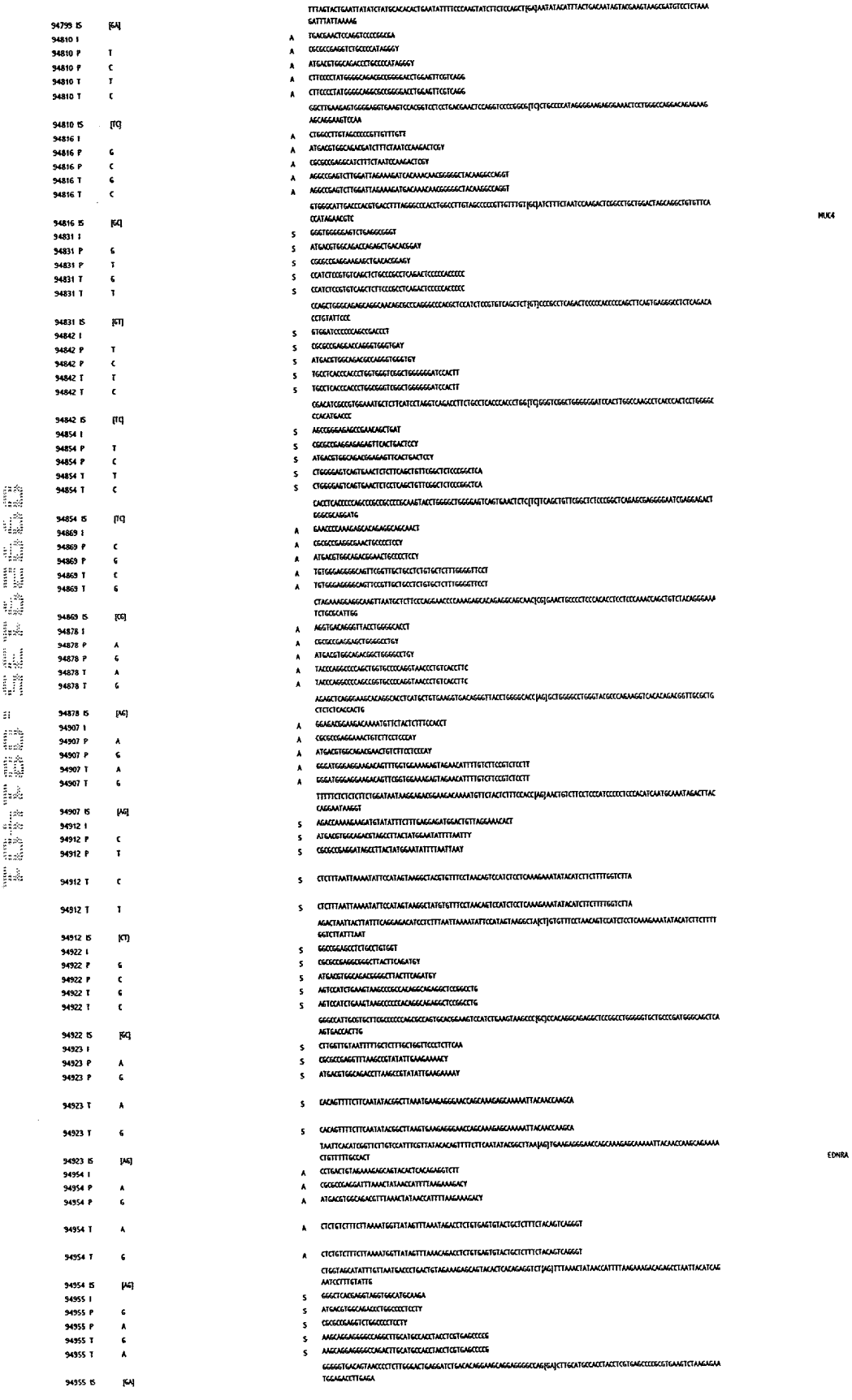


FIGURE 129C



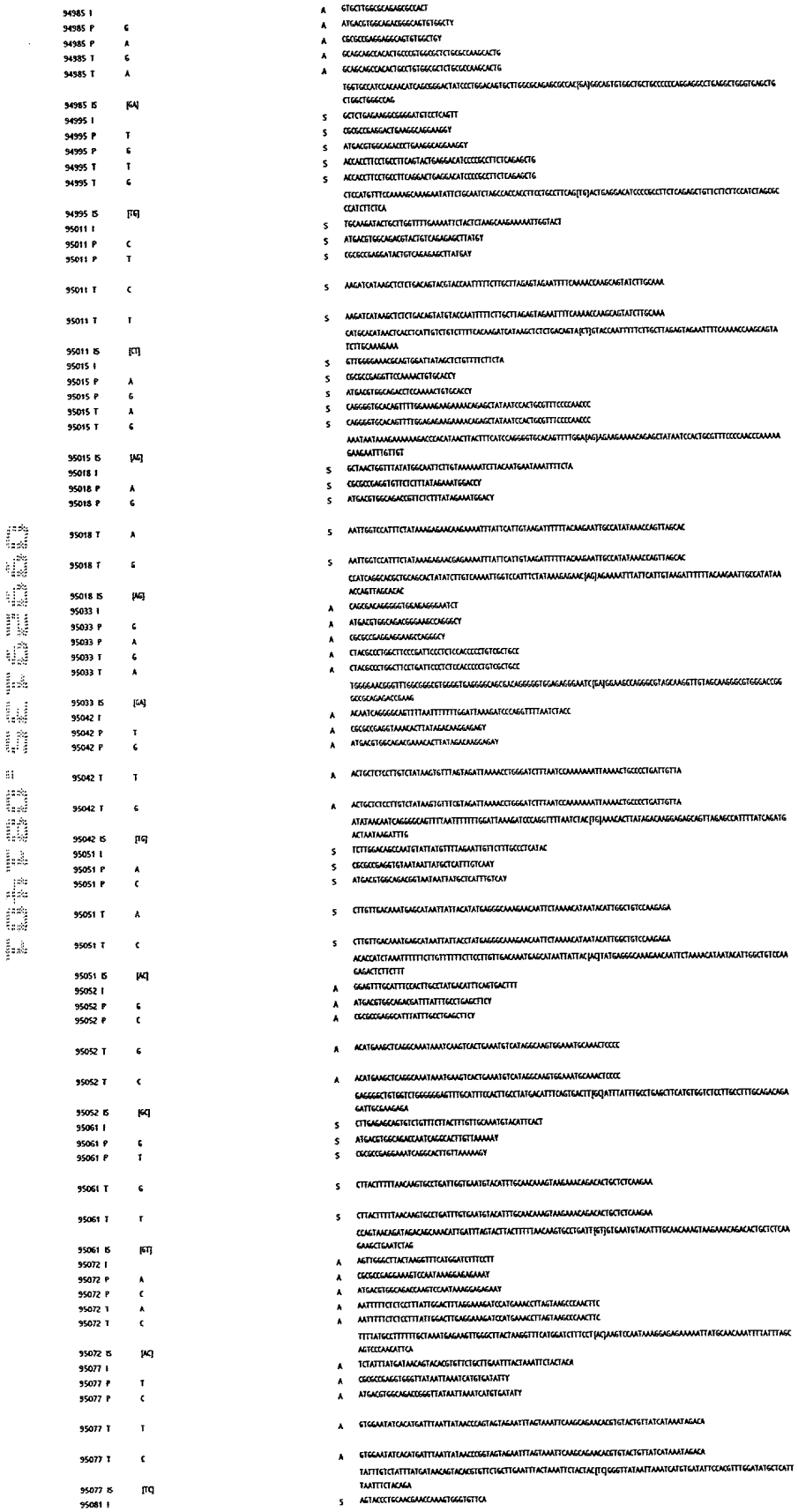


FIGURE 129C

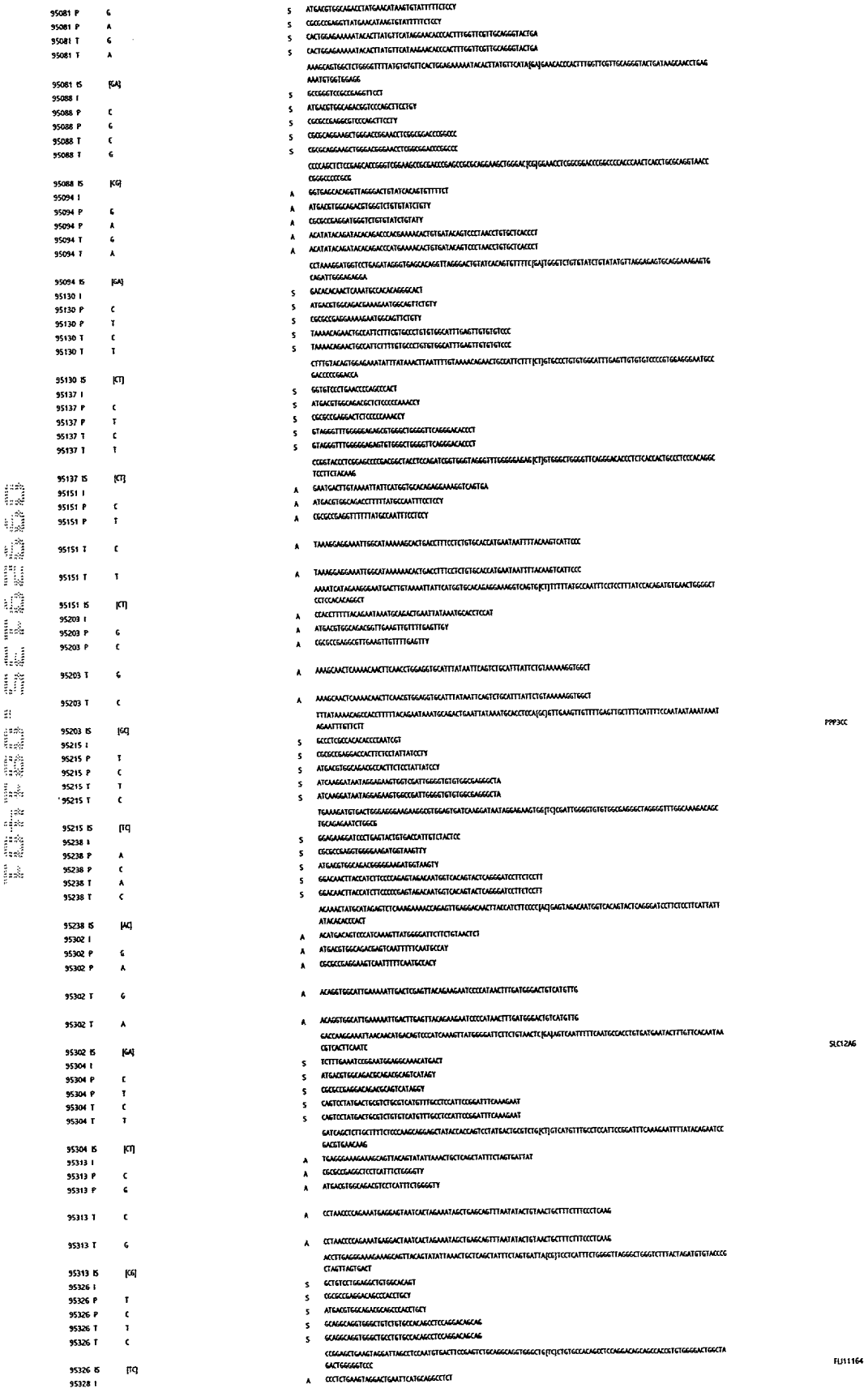


FIGURE 129C

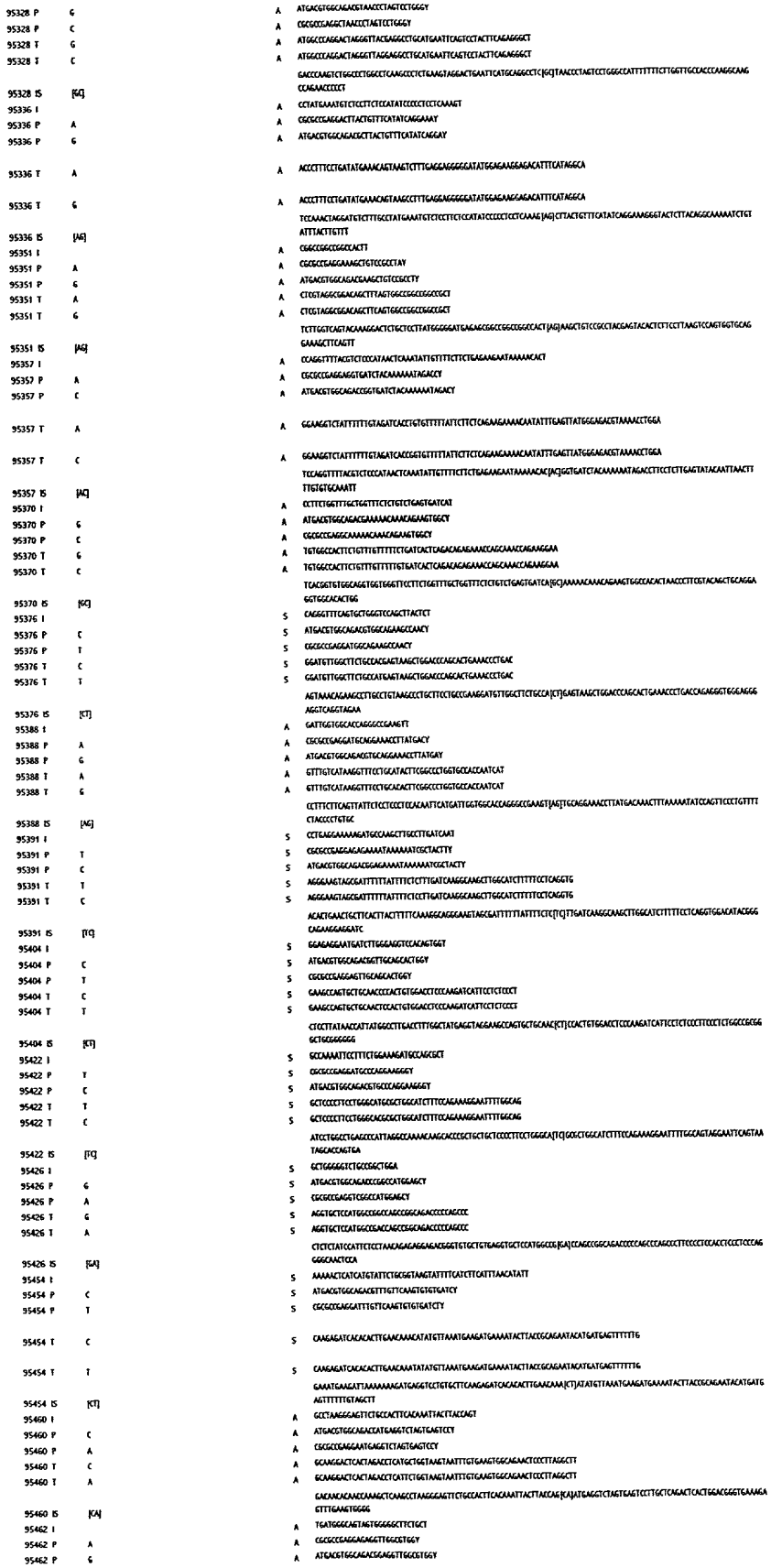
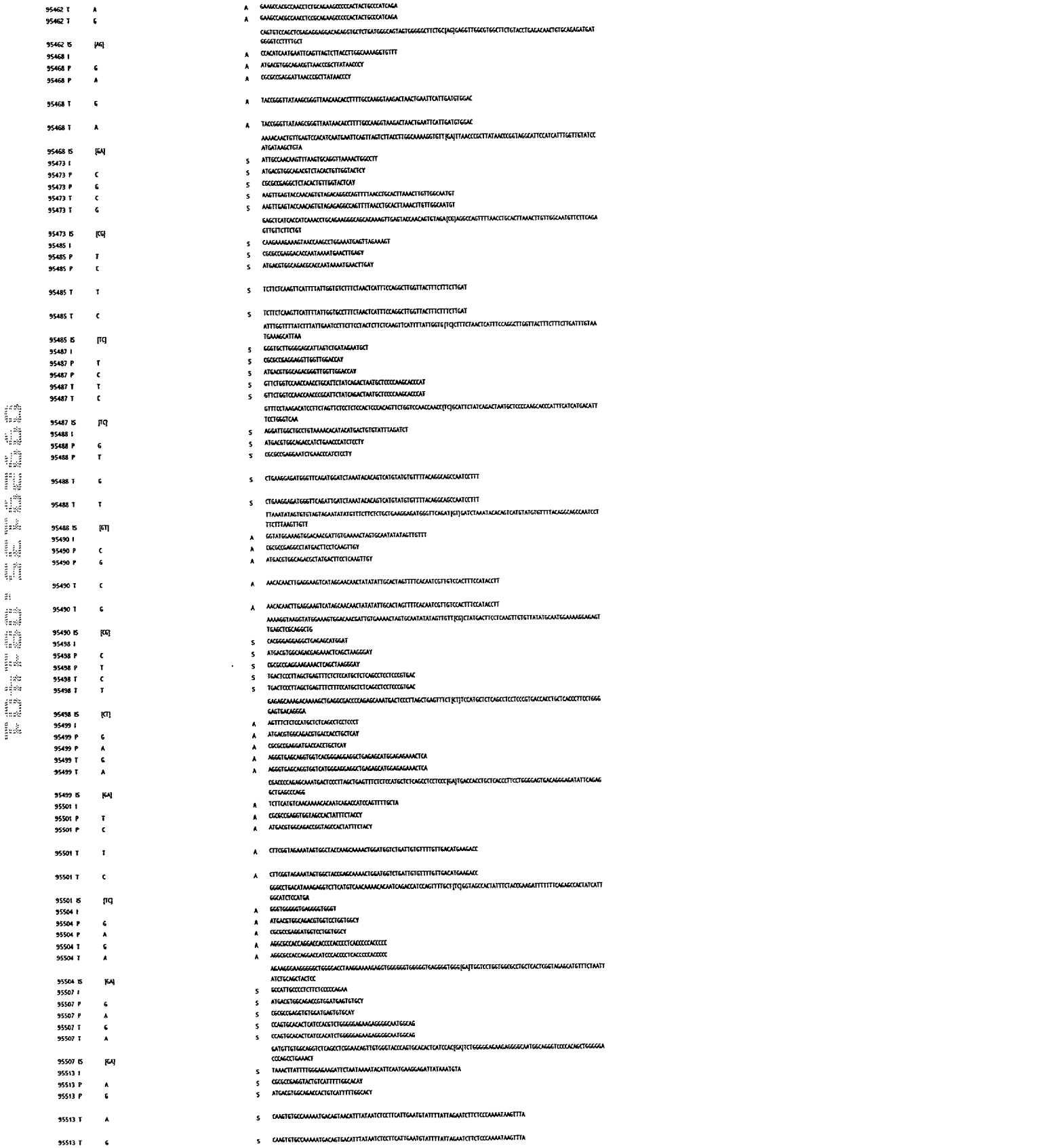


FIGURE 129C



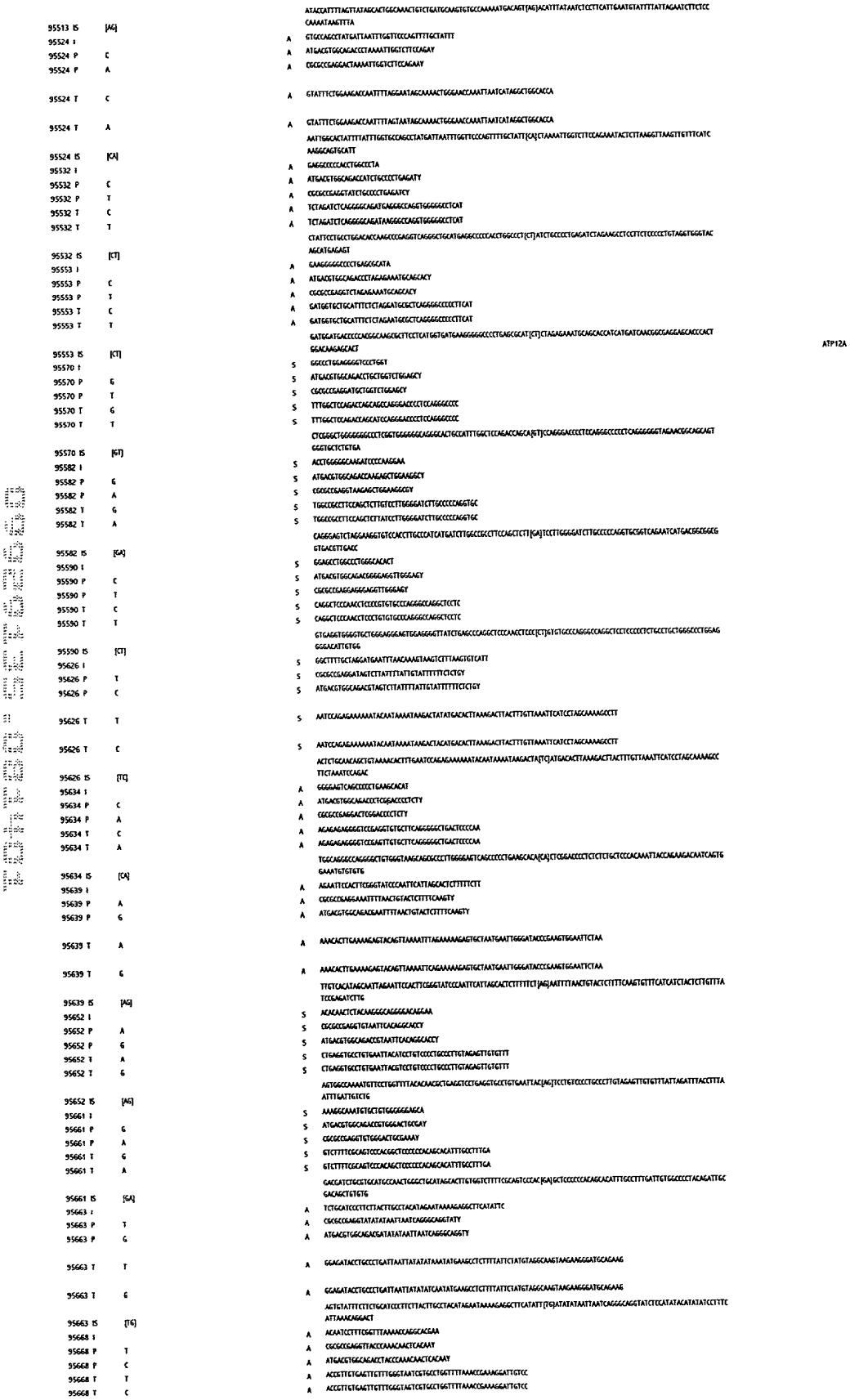
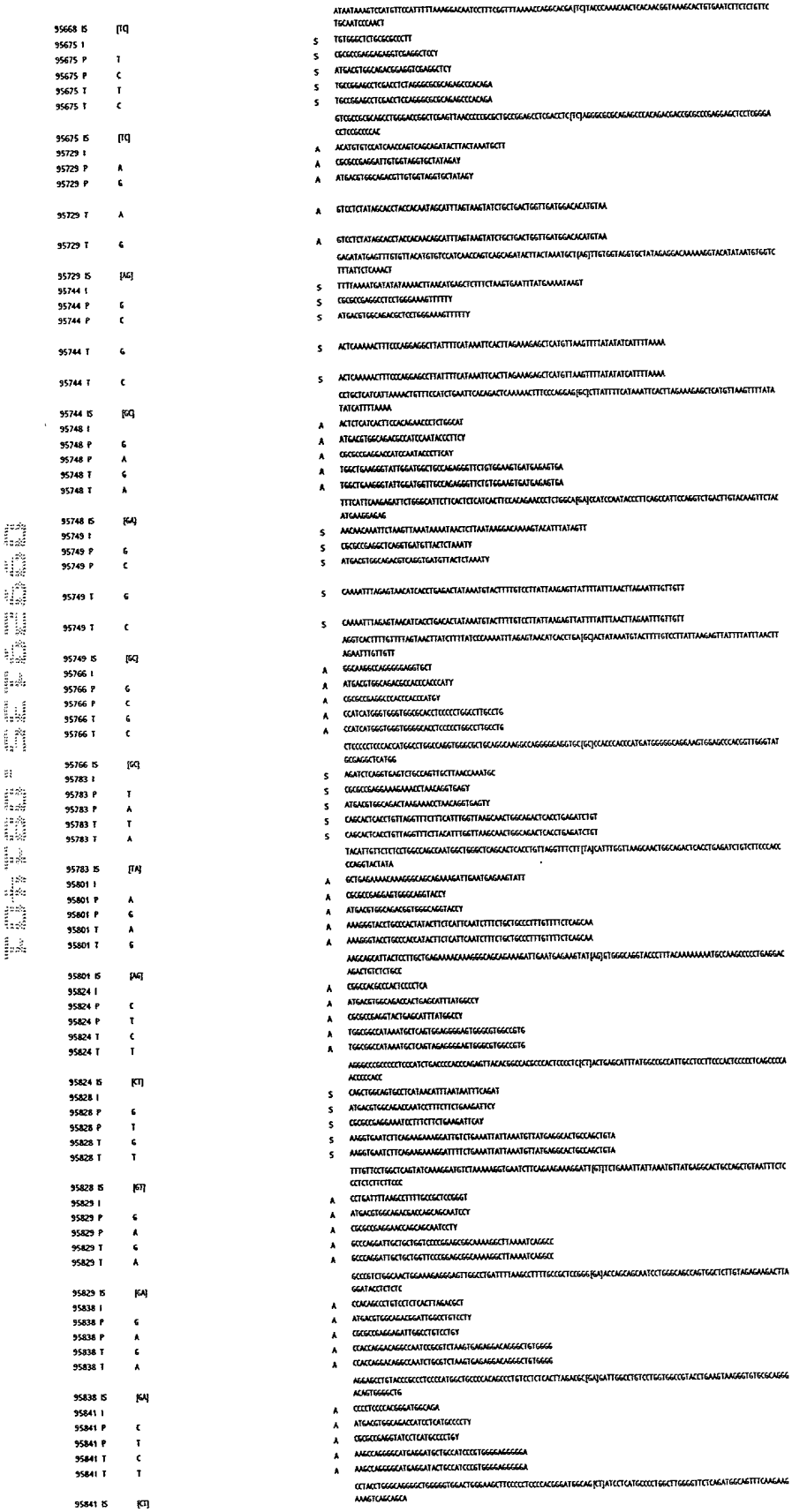
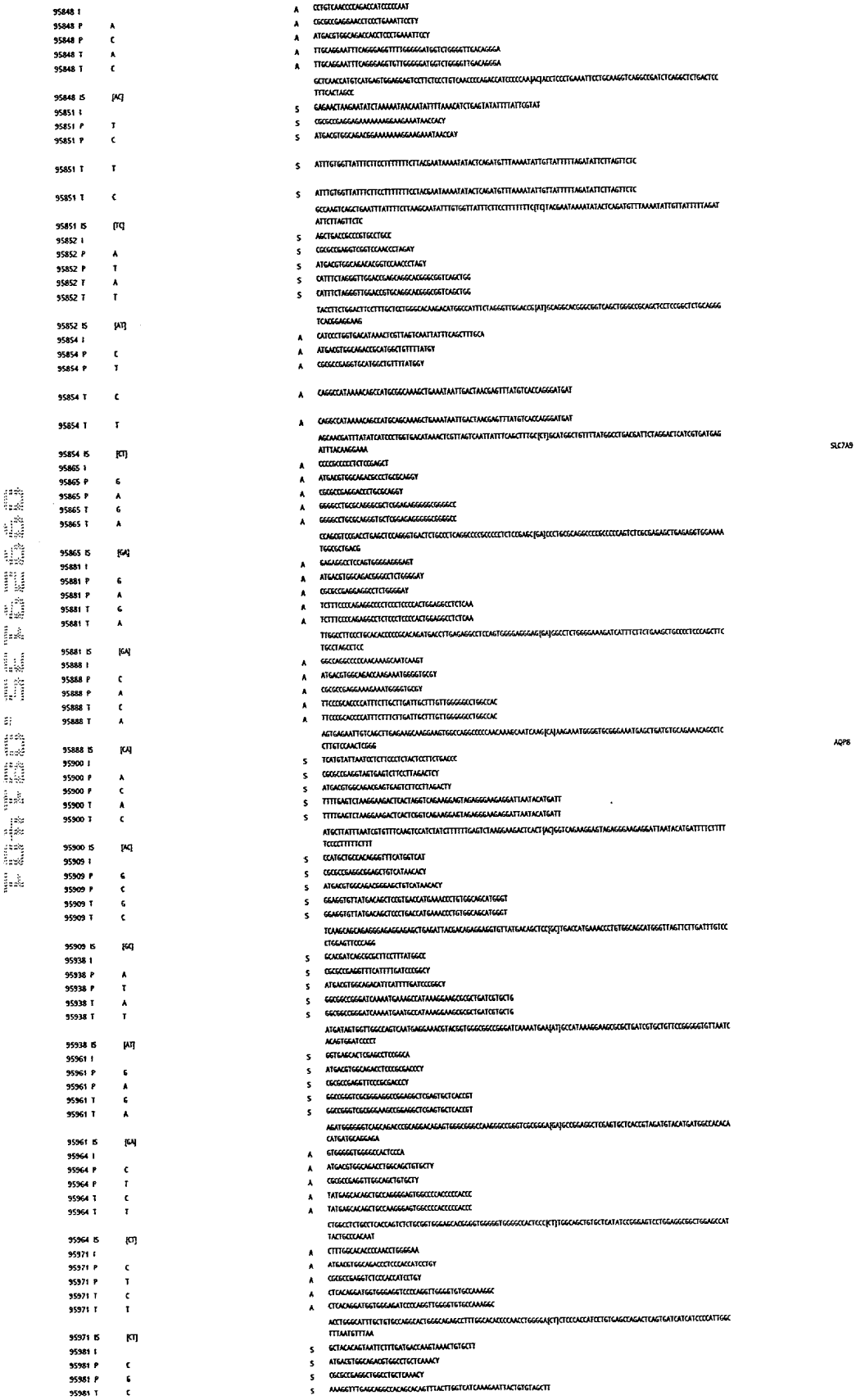

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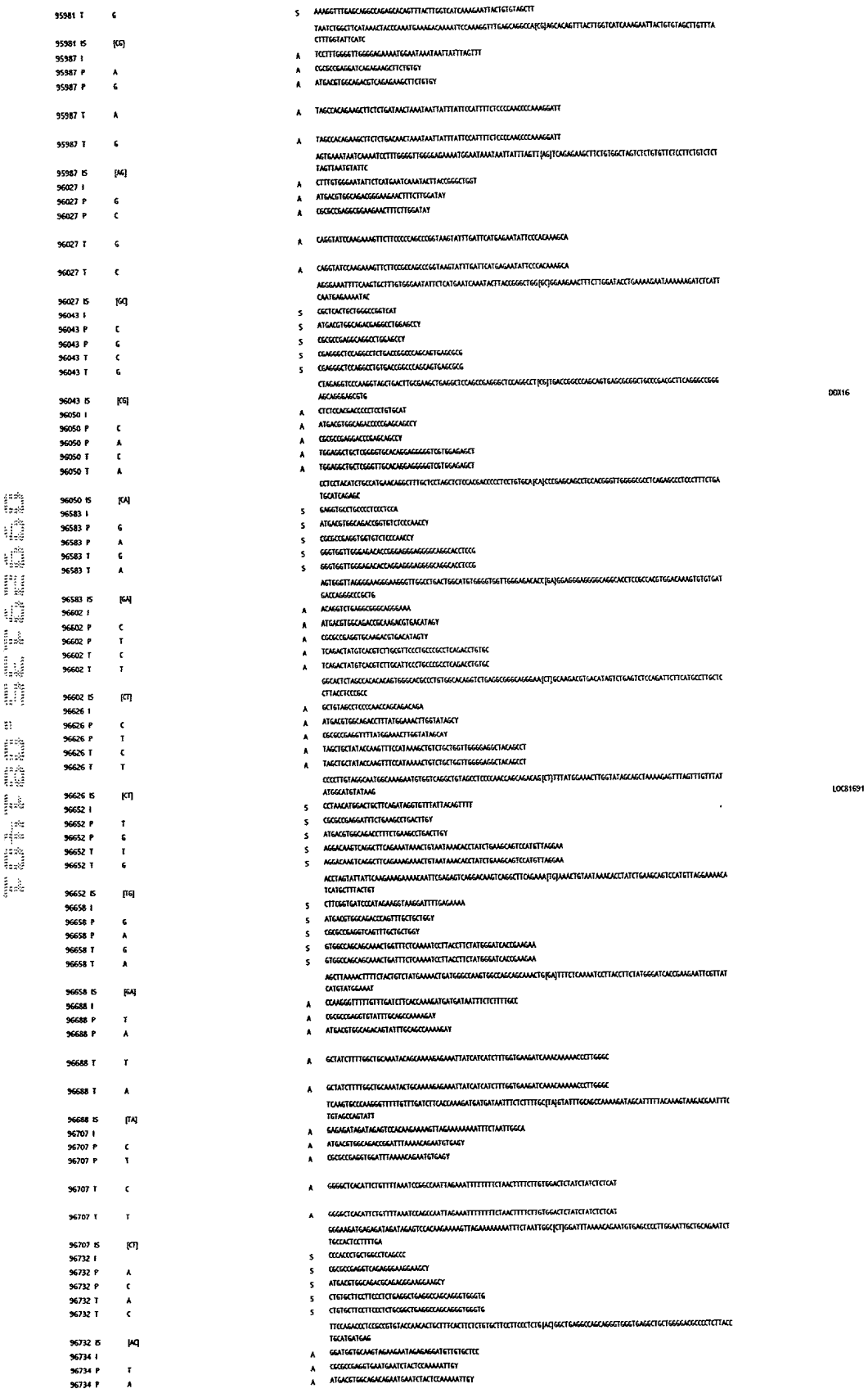
FIGURE 129C




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95851 I
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95851 T C
95851 IS [TC]
95852 I
95852 P A
95852 P T
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95852 IS [AT]
95854 I
95854 P C
95854 P T
95854 T C
95854 T T
95854 IS [CT]
95865 I
95865 P G
95865 P A
95865 T G
95865 T A
95865 IS [GA]
95881 I
95881 P G
95881 P A
95881 T G
95881 T A
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95888 I
95888 P C
95888 P A
95888 T C
95888 T A
95888 IS [CA]
95900 I
95900 P A
95900 P C
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95909 I
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95961 I
95961 P G
95961 P A
95961 T G
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95964 I
95964 P C
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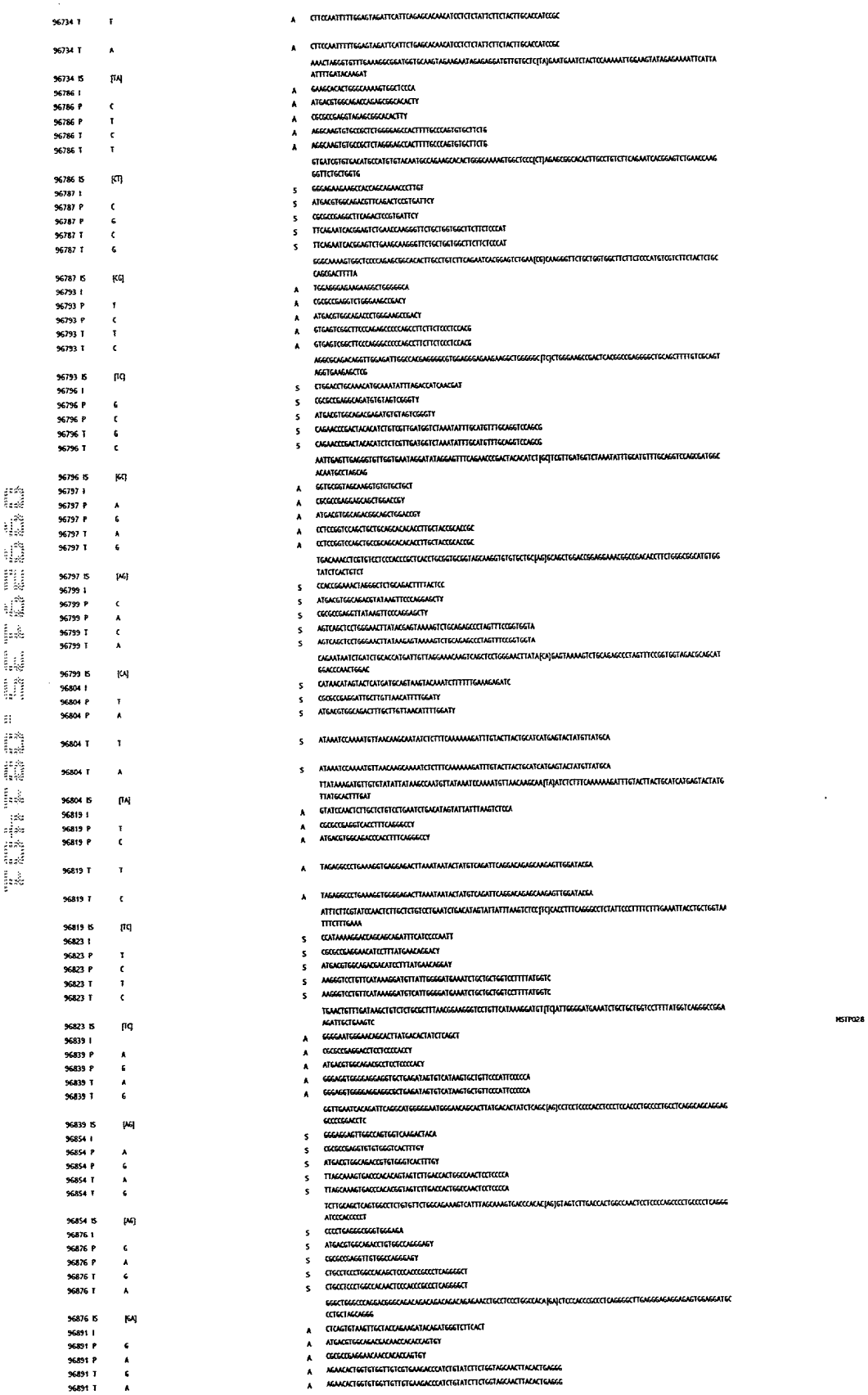


FIGURE 129C

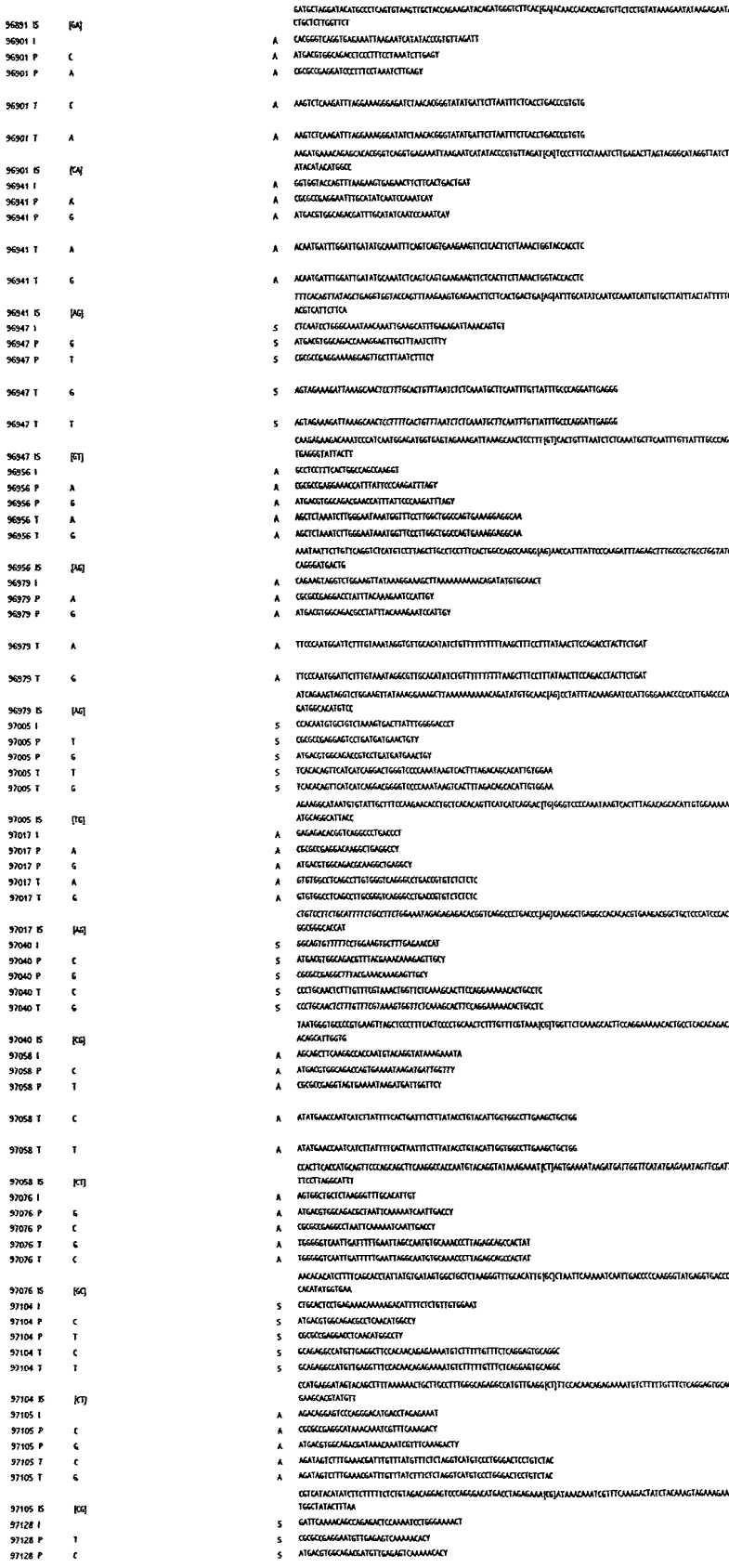
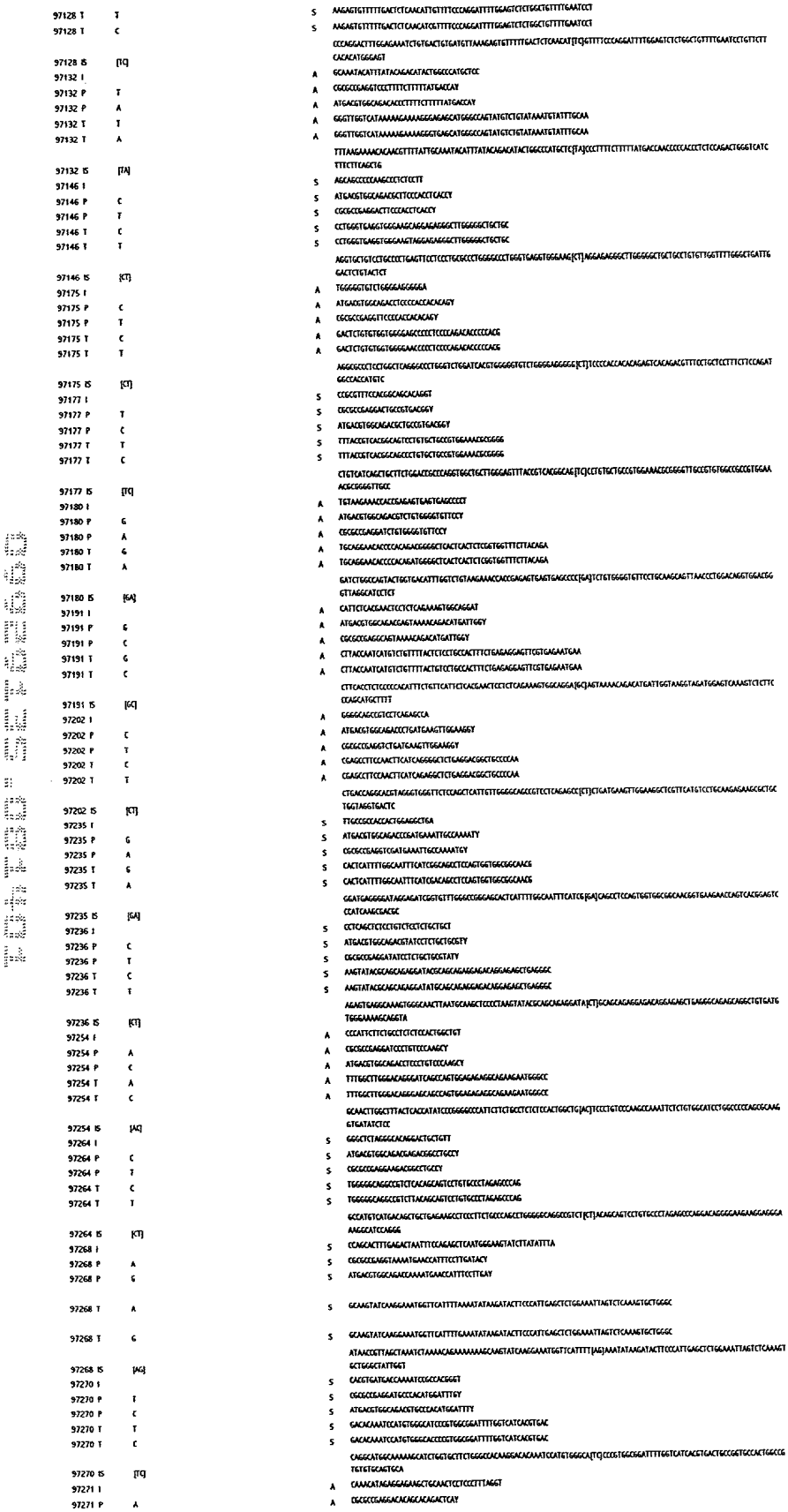
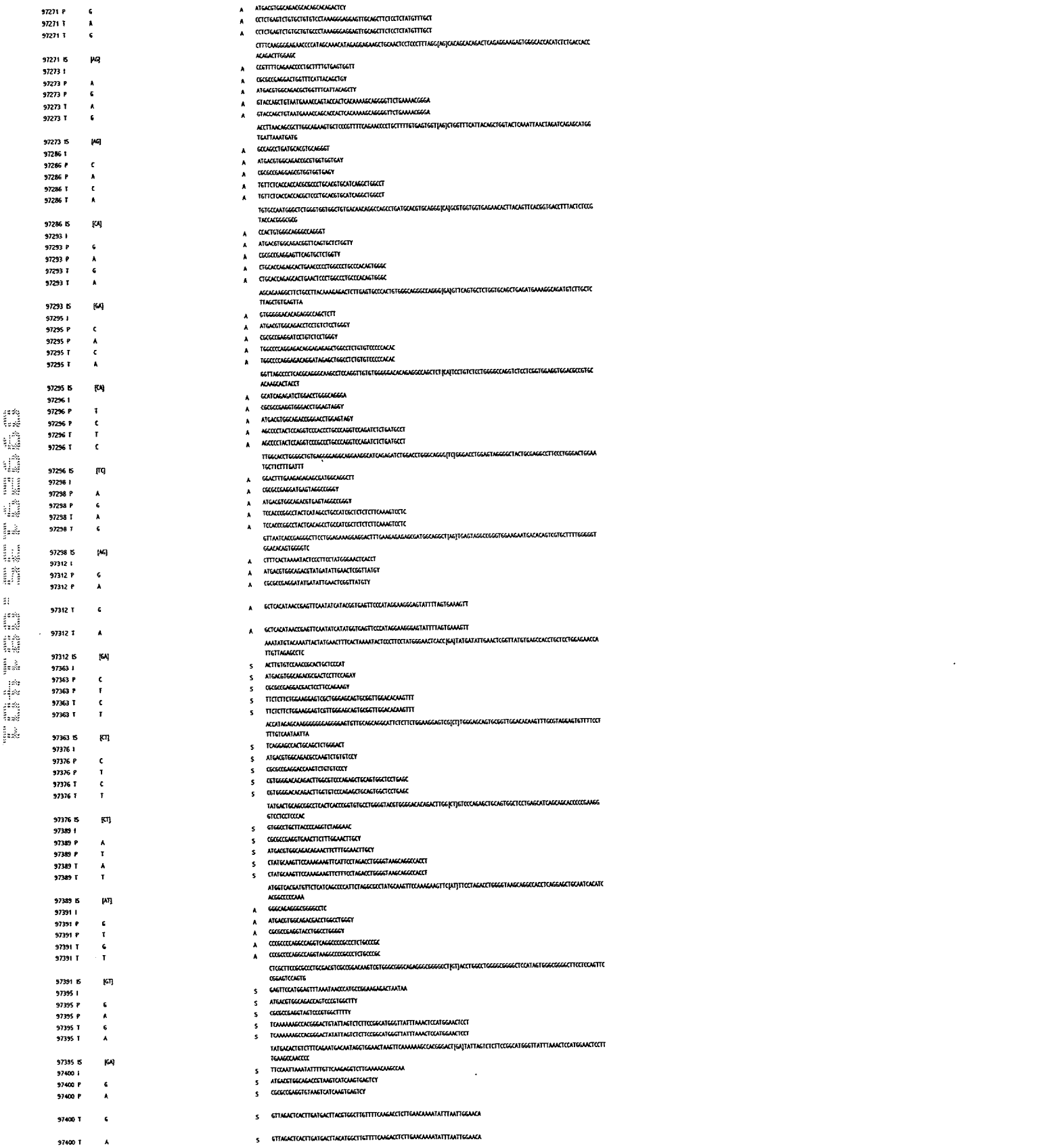
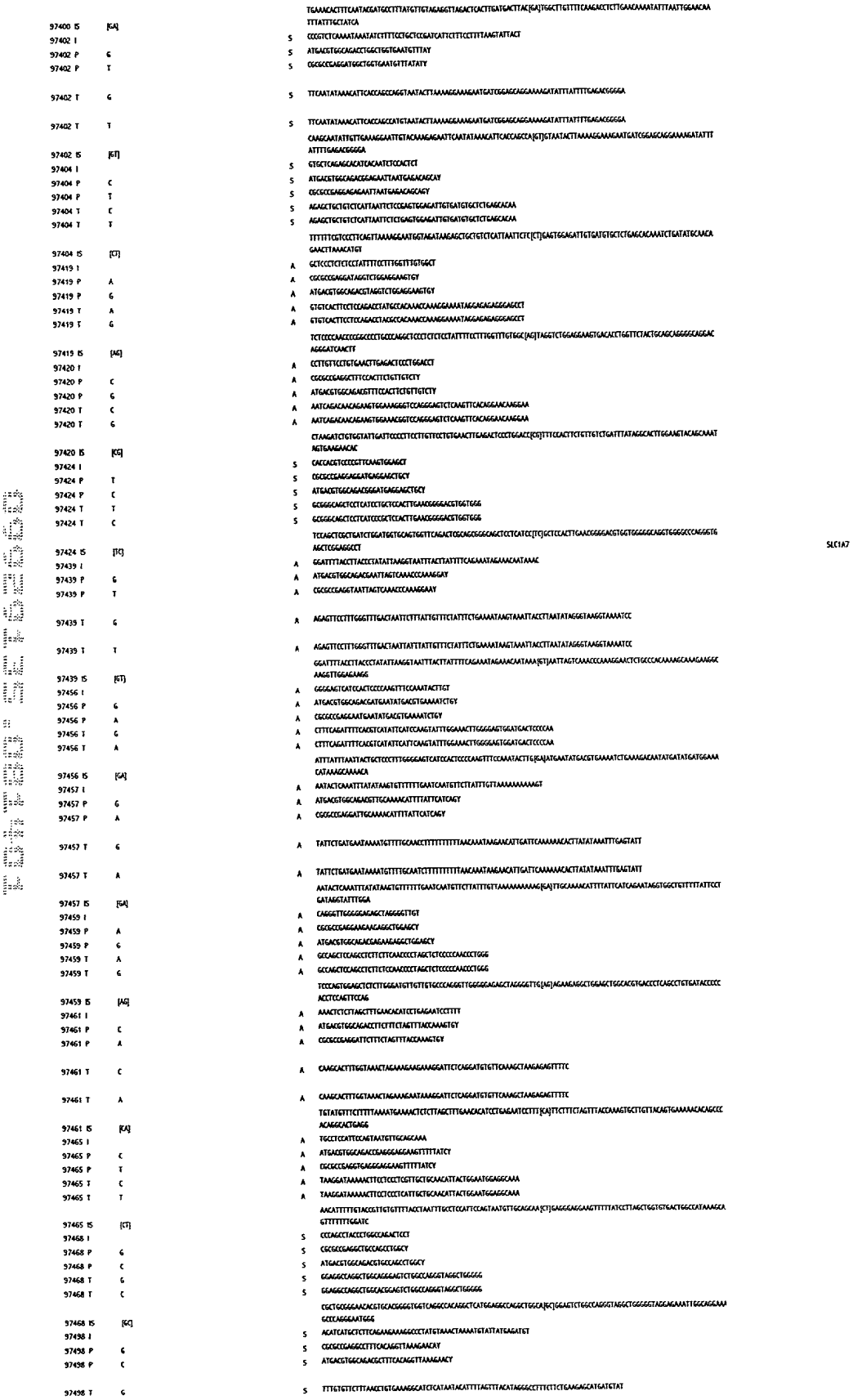


FIGURE 129C


97128 T T
97128 T C
97128 IS [TC]
97132 I
97132 P T
97132 P A
97132 T T
97132 T A
97132 IS [TA]
97146 I
97146 P C
97146 P T
97146 T C
97146 T T
97146 IS [CT]
97175 I
97175 P C
97175 P T
97175 T C
97175 T T
97175 IS [CT]
97177 I
97177 P T
97177 P C
97177 T T
97177 T C
97177 IS [TC]
97180 I
97180 P G
97180 P A
97180 T G
97180 T A
97180 IS [GA]
97191 I
97191 P G
97191 P C
97191 T G
97191 T C
97191 IS [GC]
97202 I
97202 P C
97202 P T
97202 T C
97202 T T
97202 IS [CT]
97235 I
97235 P G
97235 P A
97235 T G
97235 T A
97235 IS [GA]
97236 I
97236 P C
97236 P T
97236 T C
97236 T T
97236 IS [CT]
97254 I
97254 P A
97254 P C
97254 T A
97254 T C
97254 IS [AC]
97264 I
97264 P C
97264 P T
97264 T C
97264 T T
97264 IS [CT]
97268 I
97268 P A
97268 P G
97268 T A
97268 T G
97268 IS [AG]
97270 I
97270 P T
97270 P C
97270 T T
97270 T C
97270 IS [TC]
97271 I
97271 P A


97271 P G
97271 T A
97271 T G
97271 IS [AG]
97273 I
97273 P A
97273 P G
97273 T A
97273 T G
97273 IS [AG]
97286 I
97286 P C
97286 P A
97286 T C
97286 T A
97286 IS [CA]
97293 I
97293 P G
97293 P A
97293 T G
97293 T A
97293 IS [GA]
97295 I
97295 P C
97295 P A
97295 T C
97295 T A
97295 IS [CA]
97296 I
97296 P T
97296 P C
97296 T T
97296 T C
97296 IS [TC]
97298 I
97298 P A
97298 P G
97298 T A
97298 T G
97298 IS [AG]
97312 I
97312 P G
97312 P A
97312 T G
97312 T A
97312 IS [GA]
97363 I
97363 P C
97363 P T
97363 T C
97363 T T
97363 IS [CT]
97376 I
97376 P C
97376 P T
97376 T C
97376 T T
97376 IS [CT]
97389 I
97389 P A
97389 P T
97389 T A
97389 T T
97389 IS [AT]
97391 I
97391 P G
97391 P T
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97395 I
97395 P G
97395 P A
97395 T G
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97395 IS [GA]
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97400 T A


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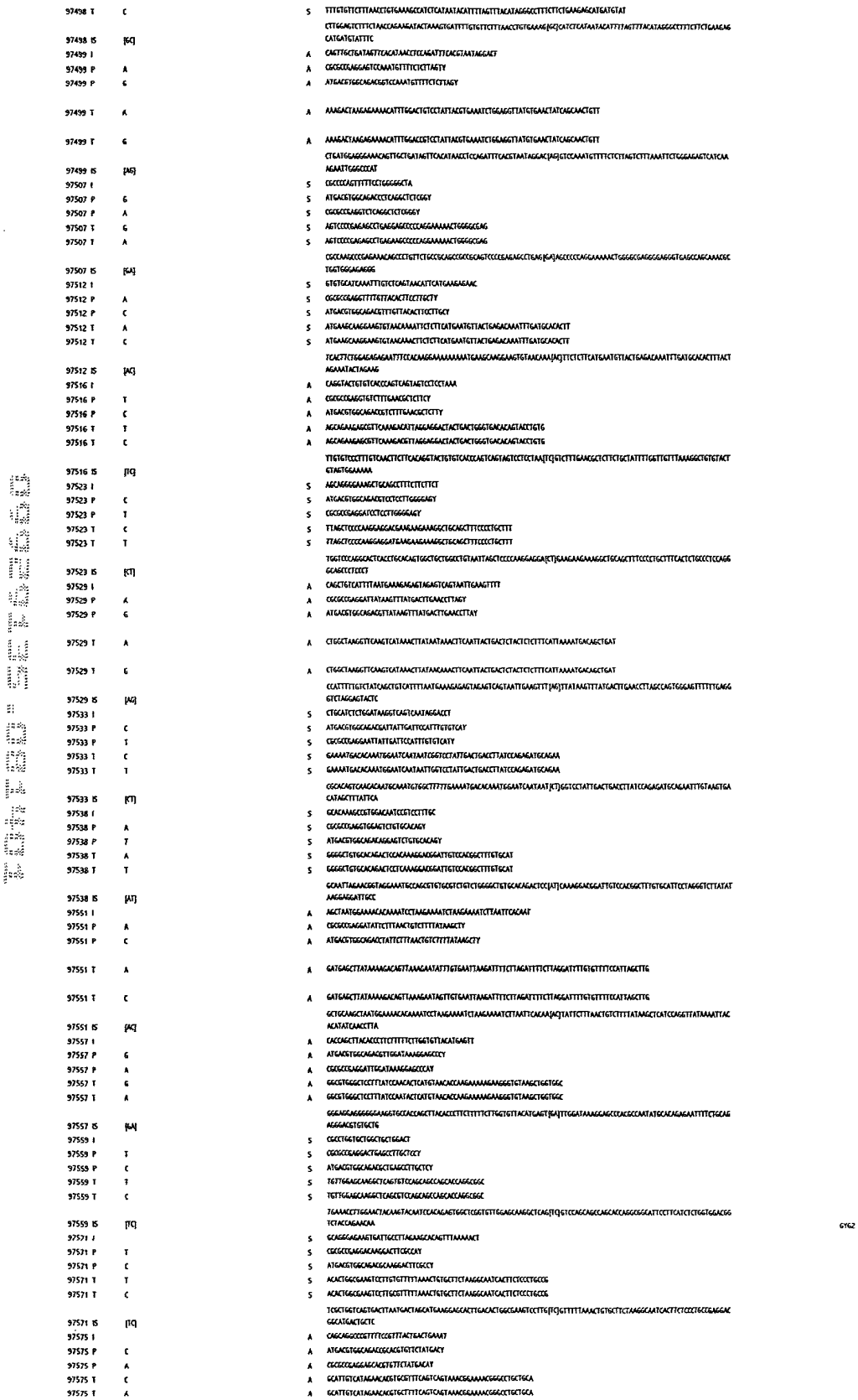


FIGURE 129C

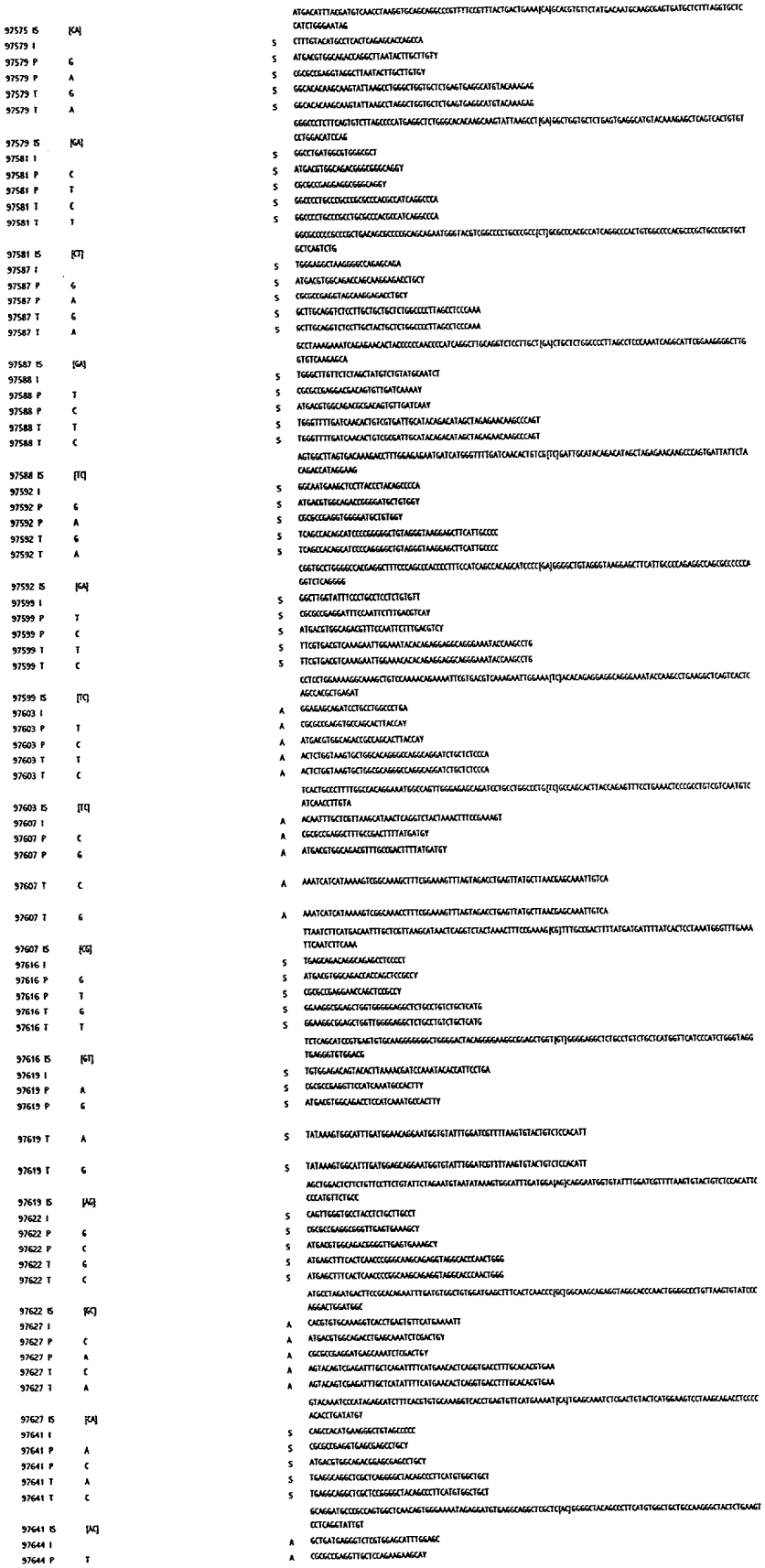


FIGURE 129C

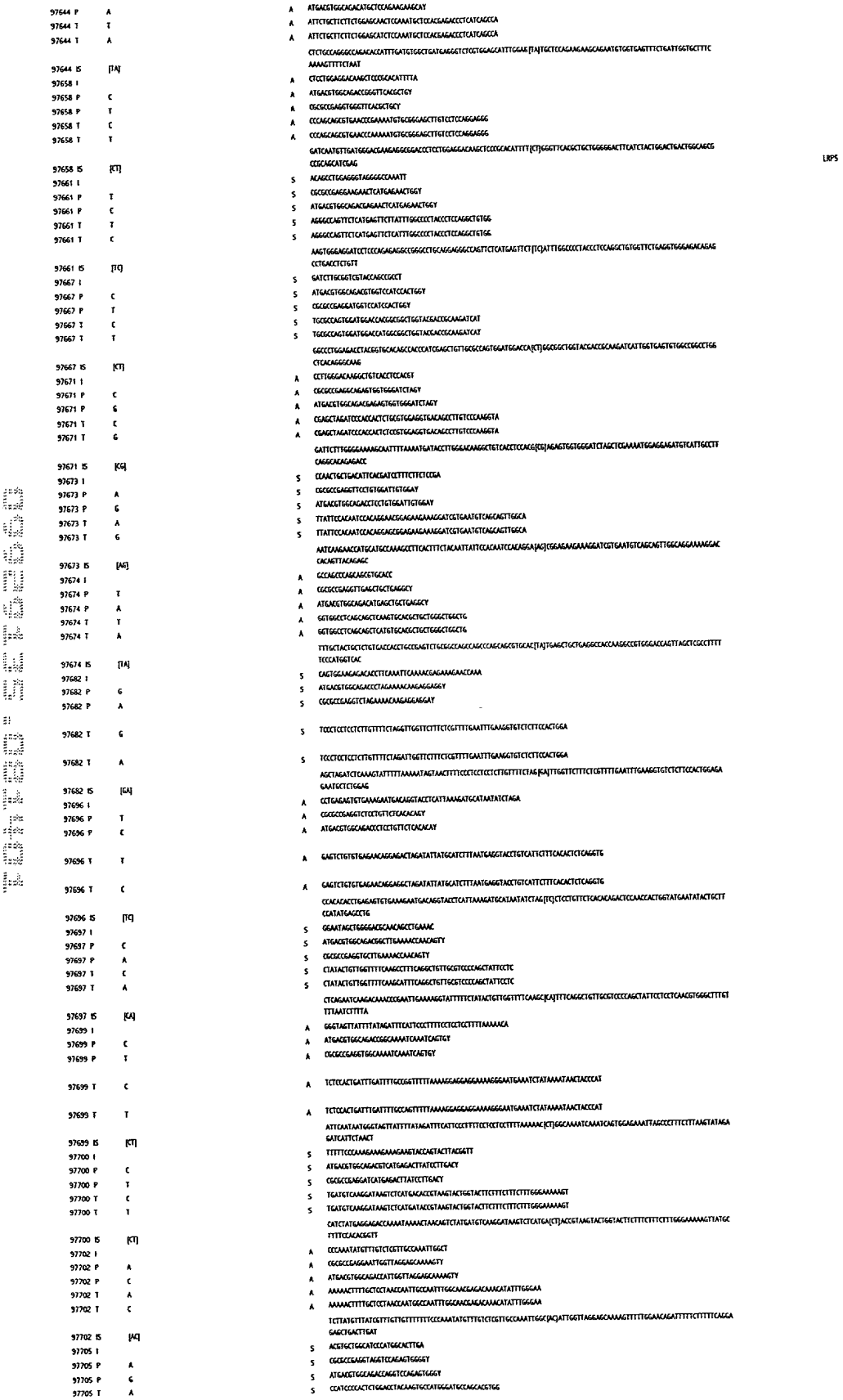


FIGURE 129C

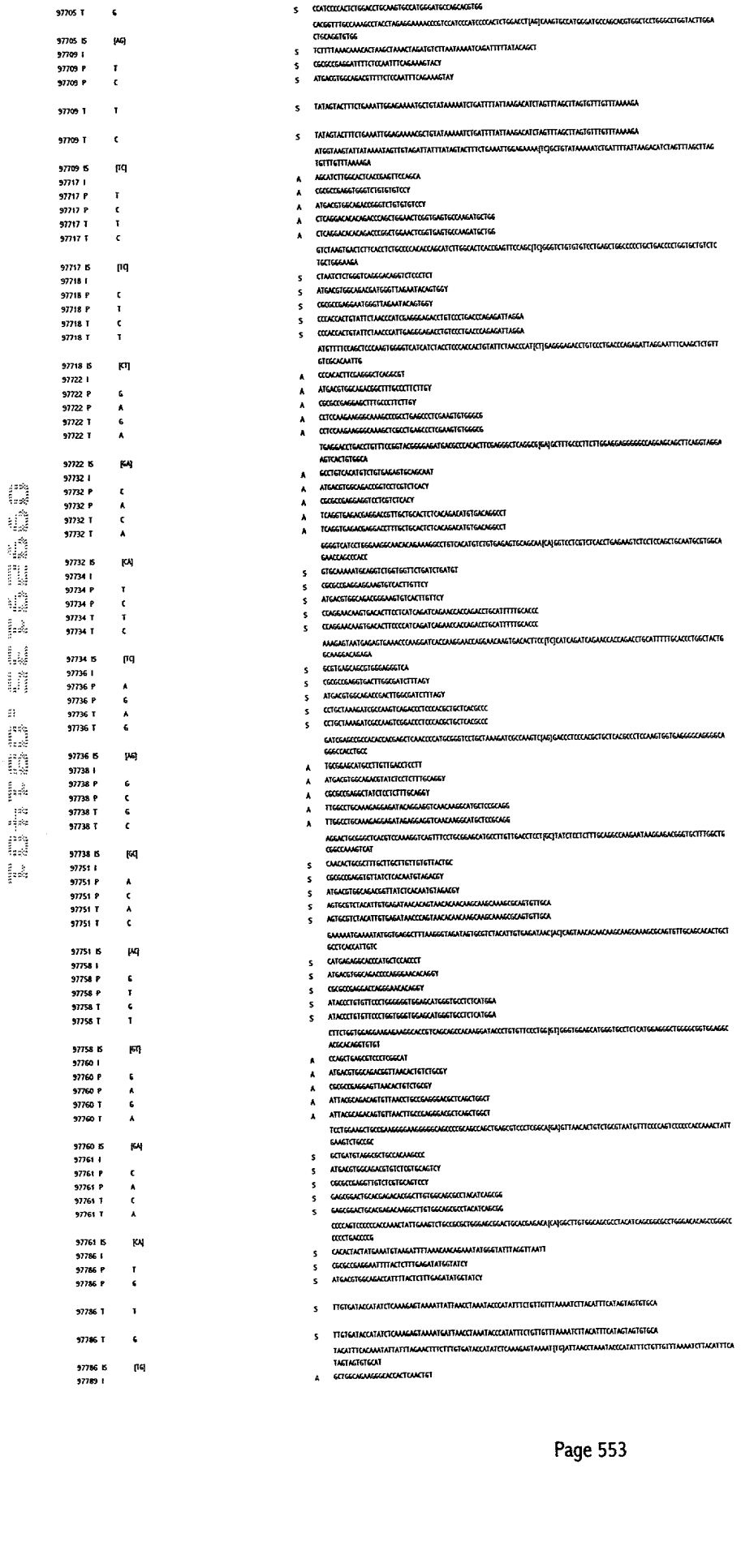


FIGURE 129C

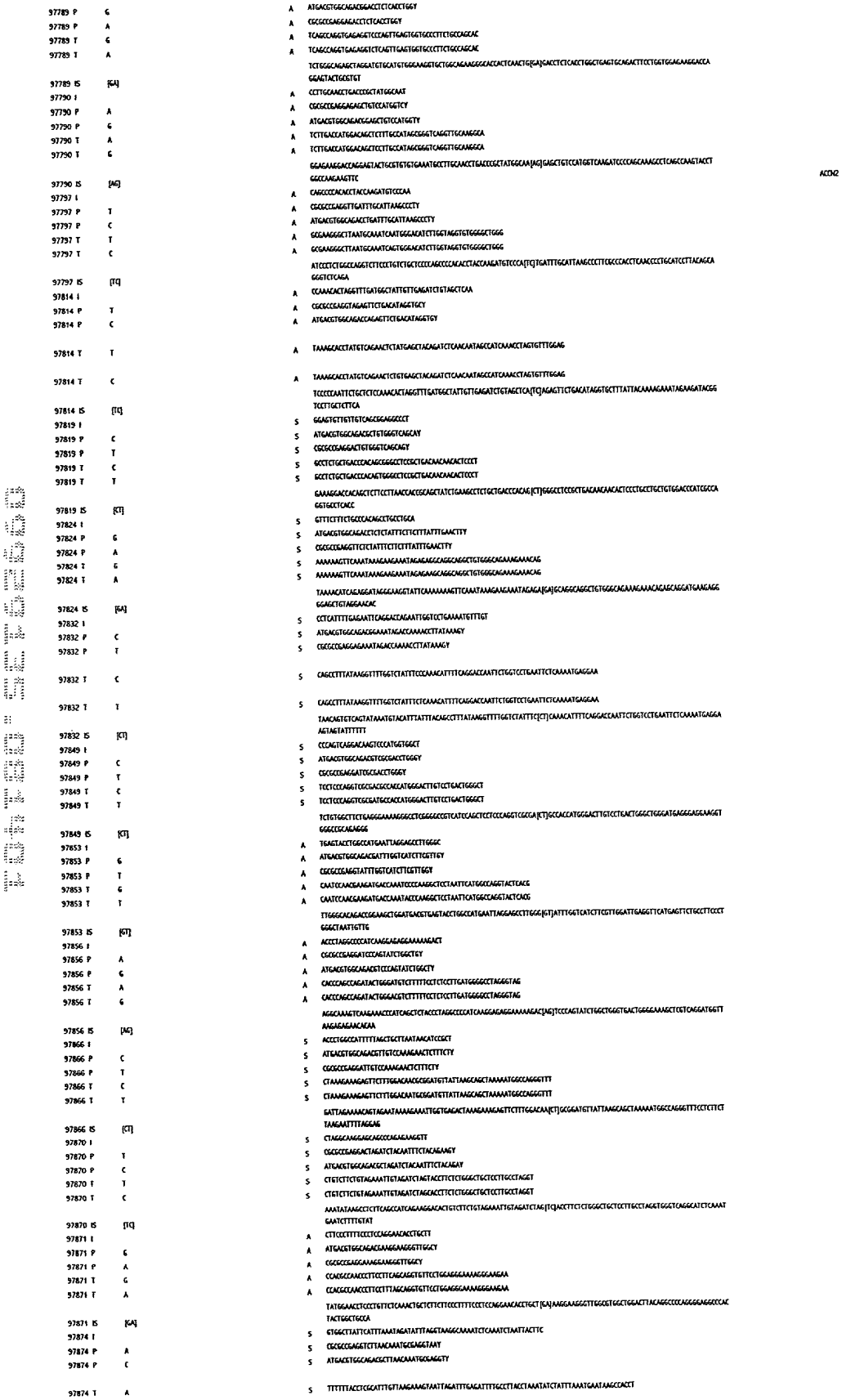


FIGURE 129C

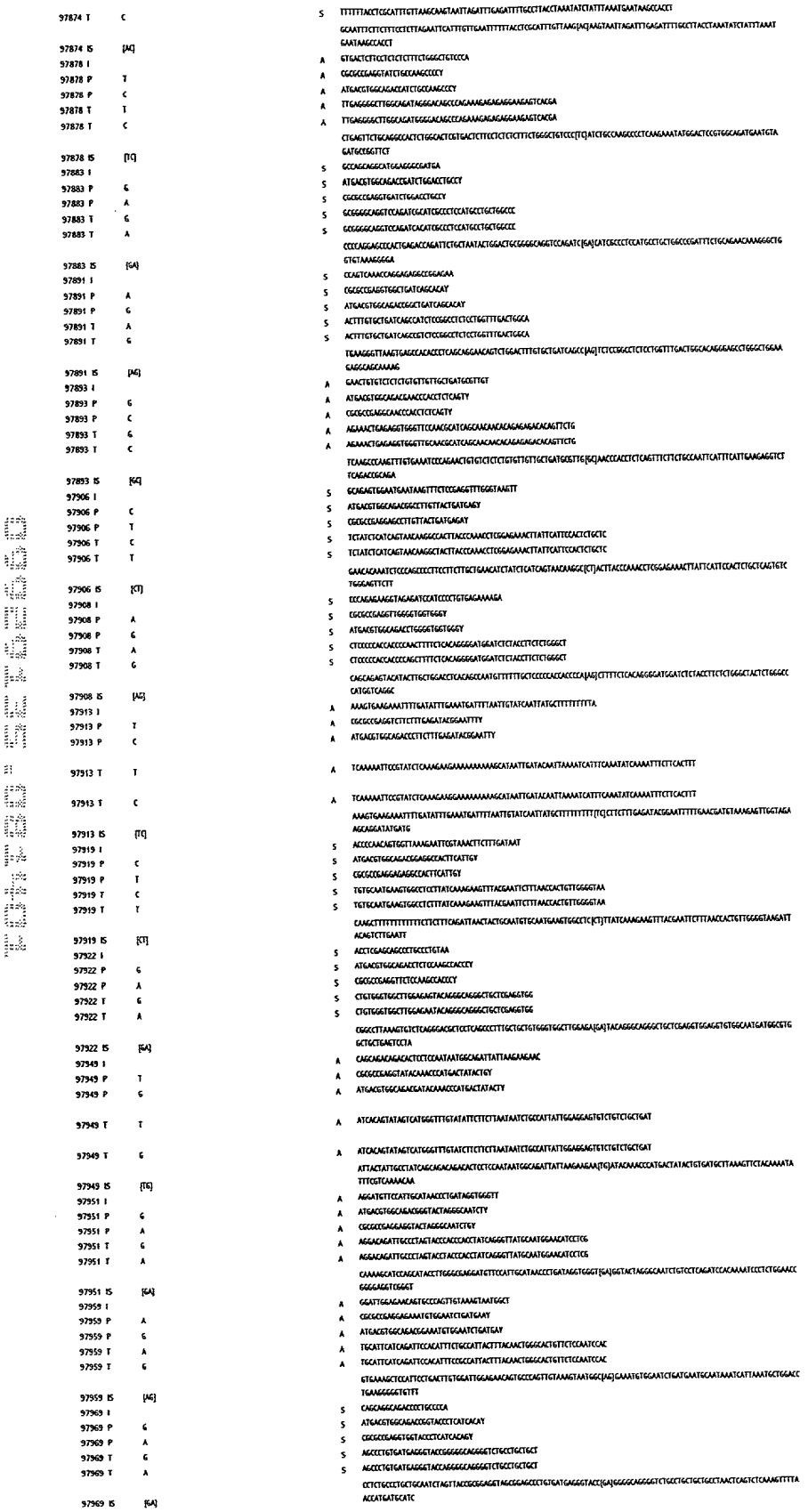
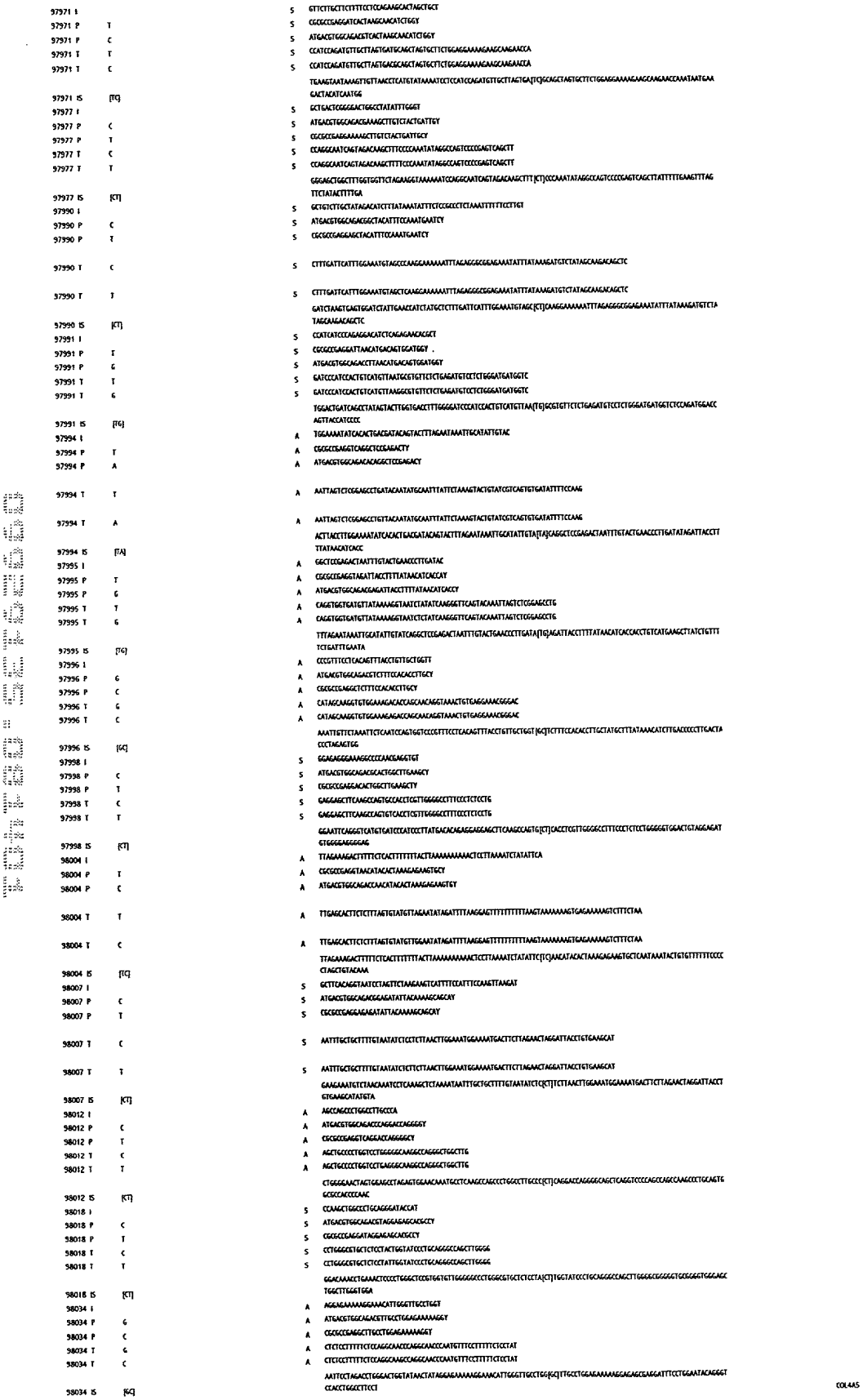


FIGURE 129C



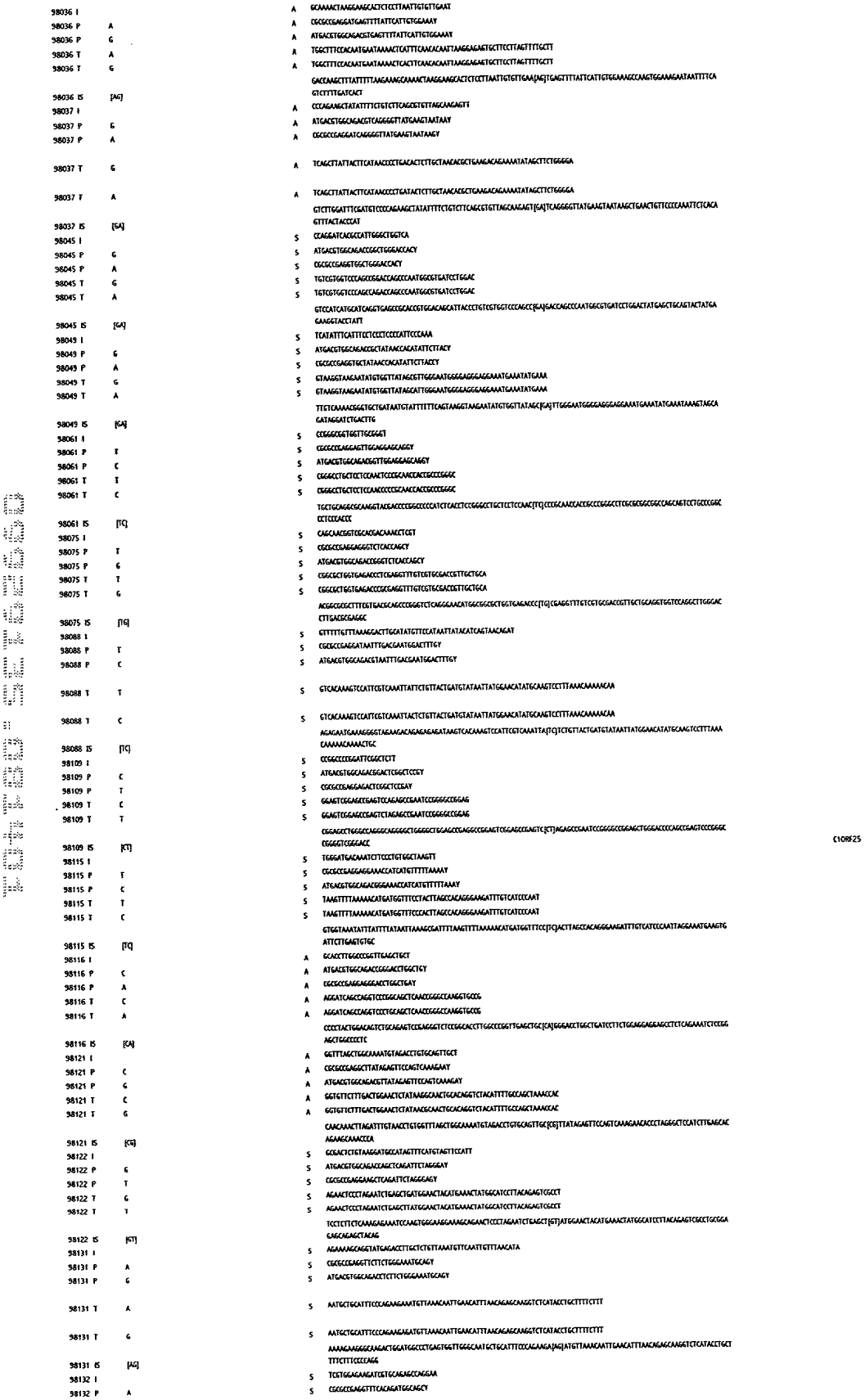


FIGURE 129C

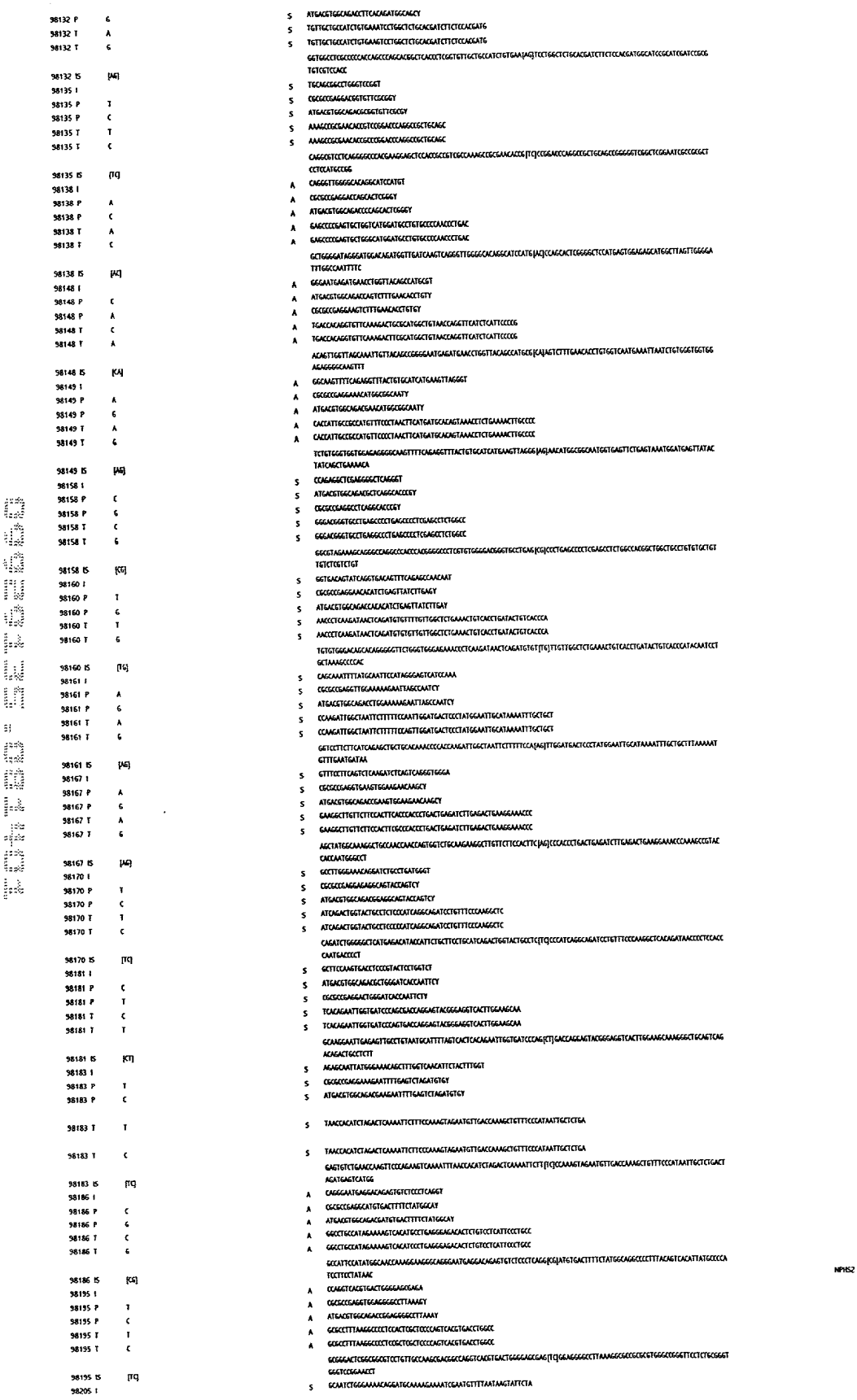
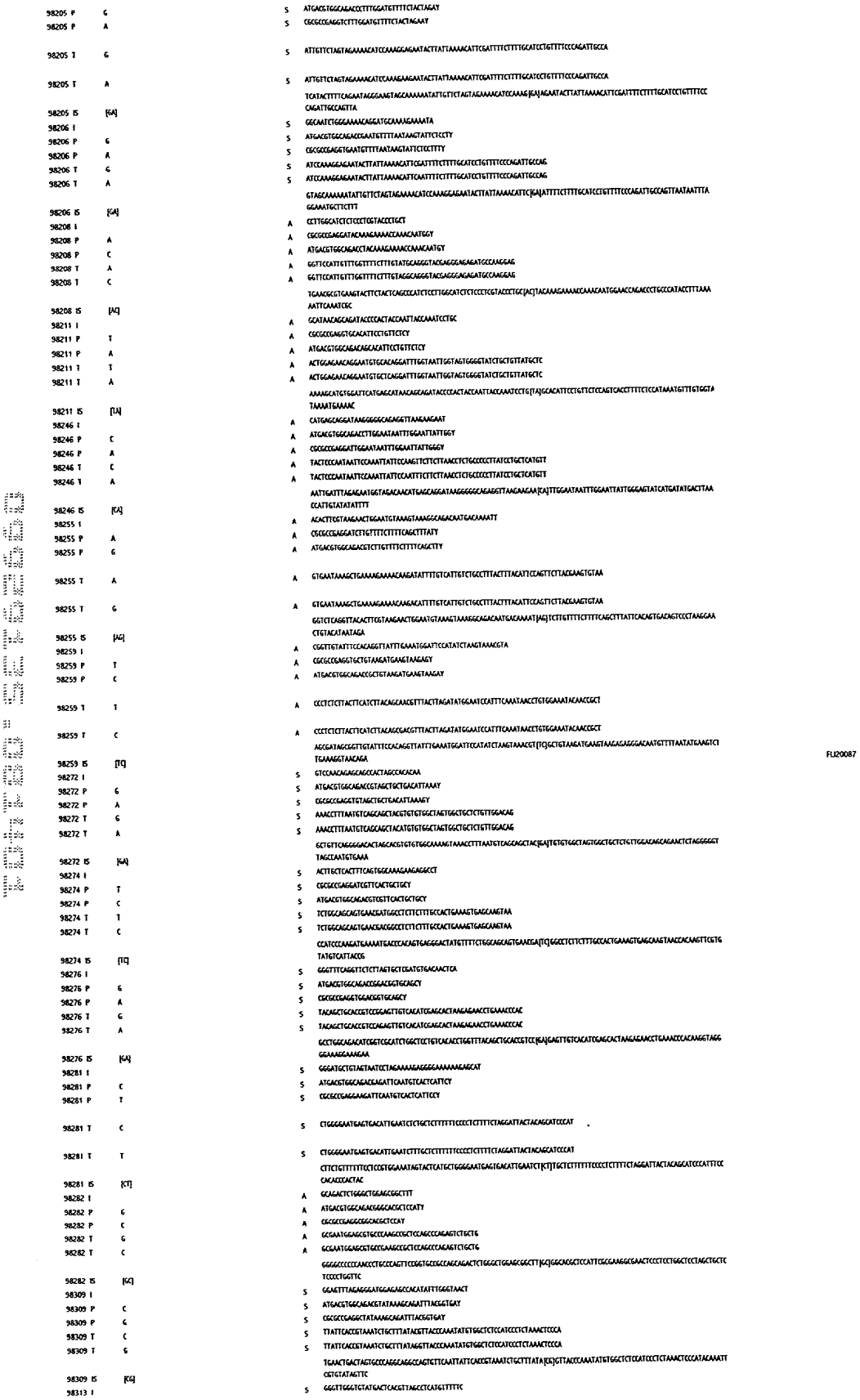


FIGURE 129C



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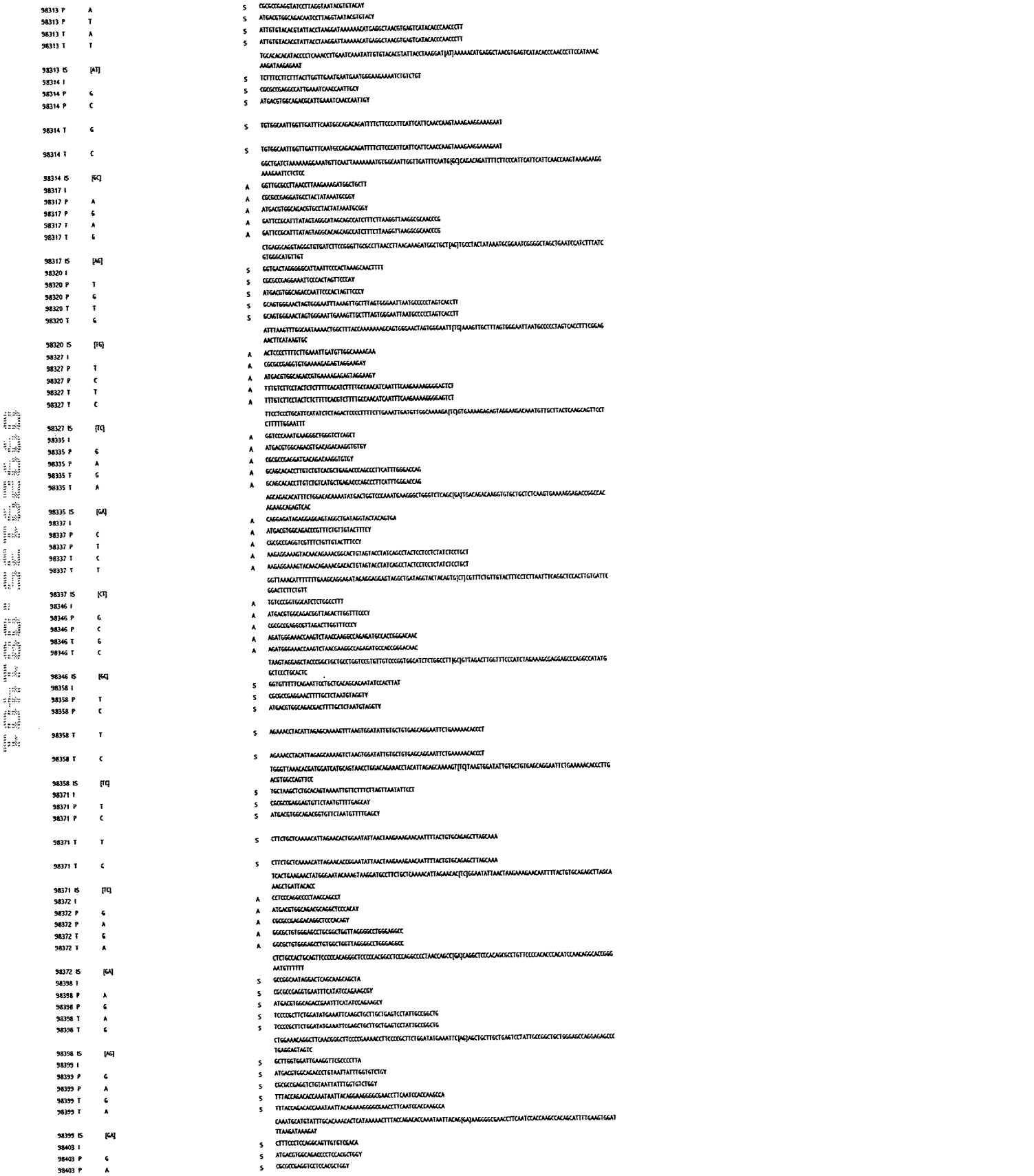


FIGURE 129C

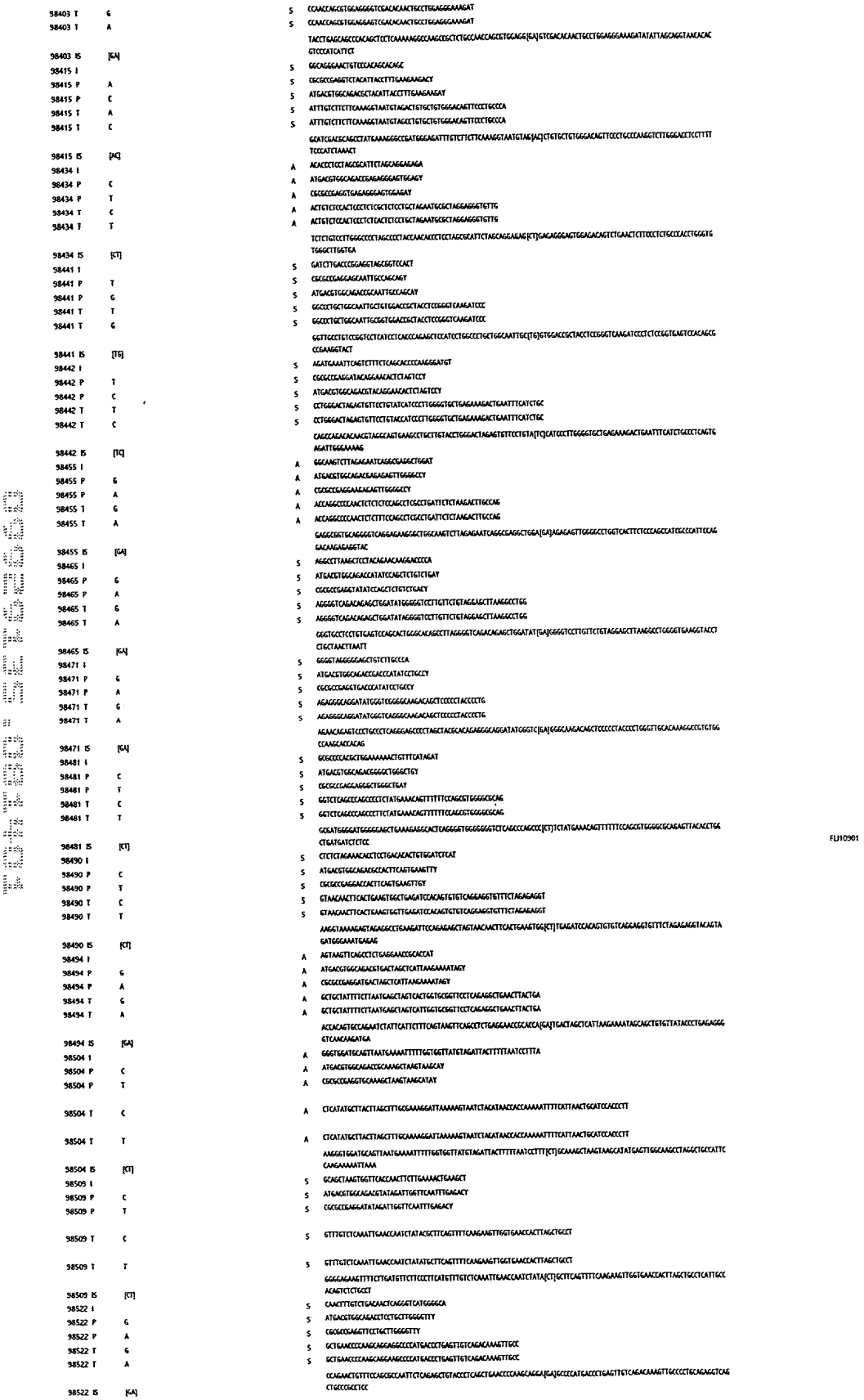


FIGURE 129C

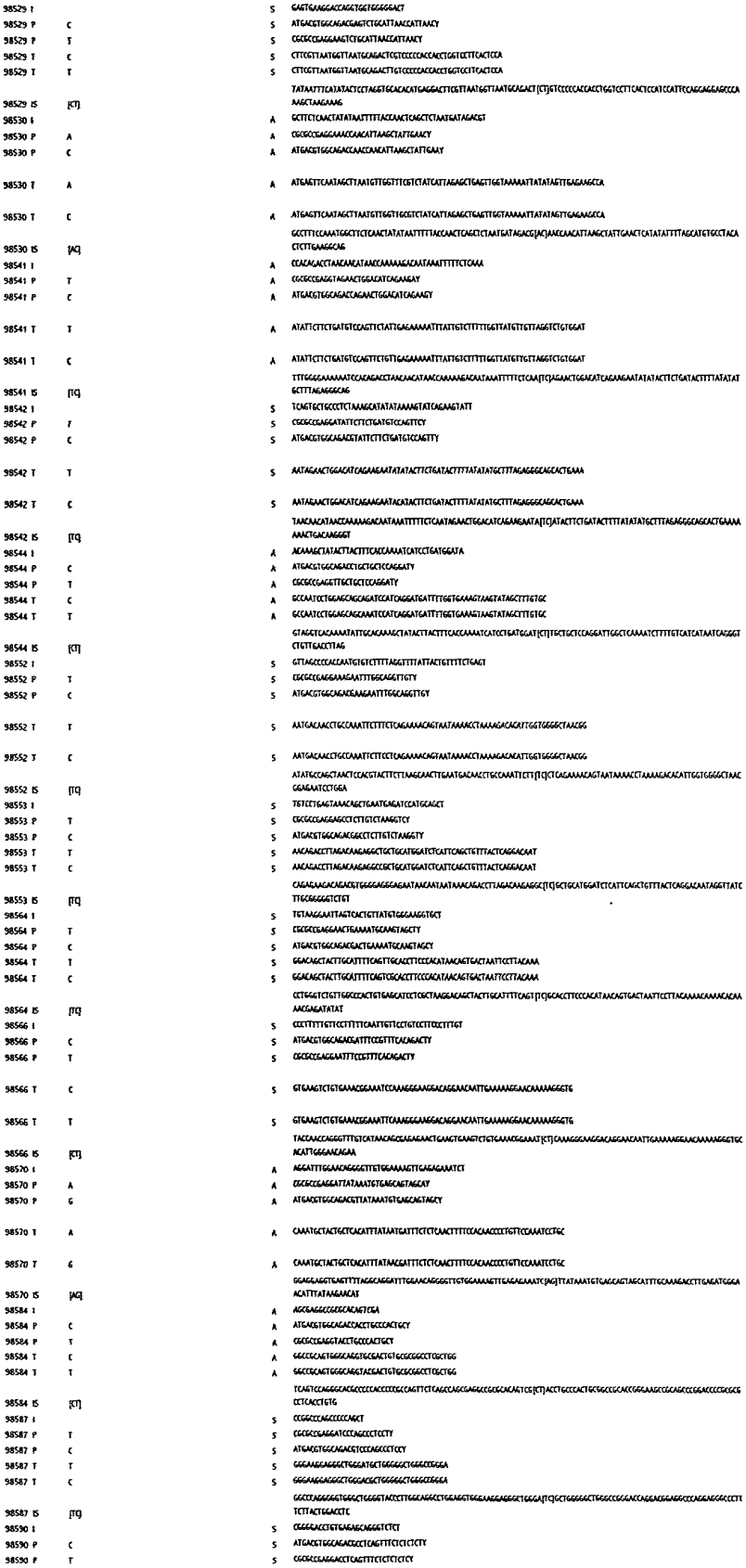


FIGURE 129C

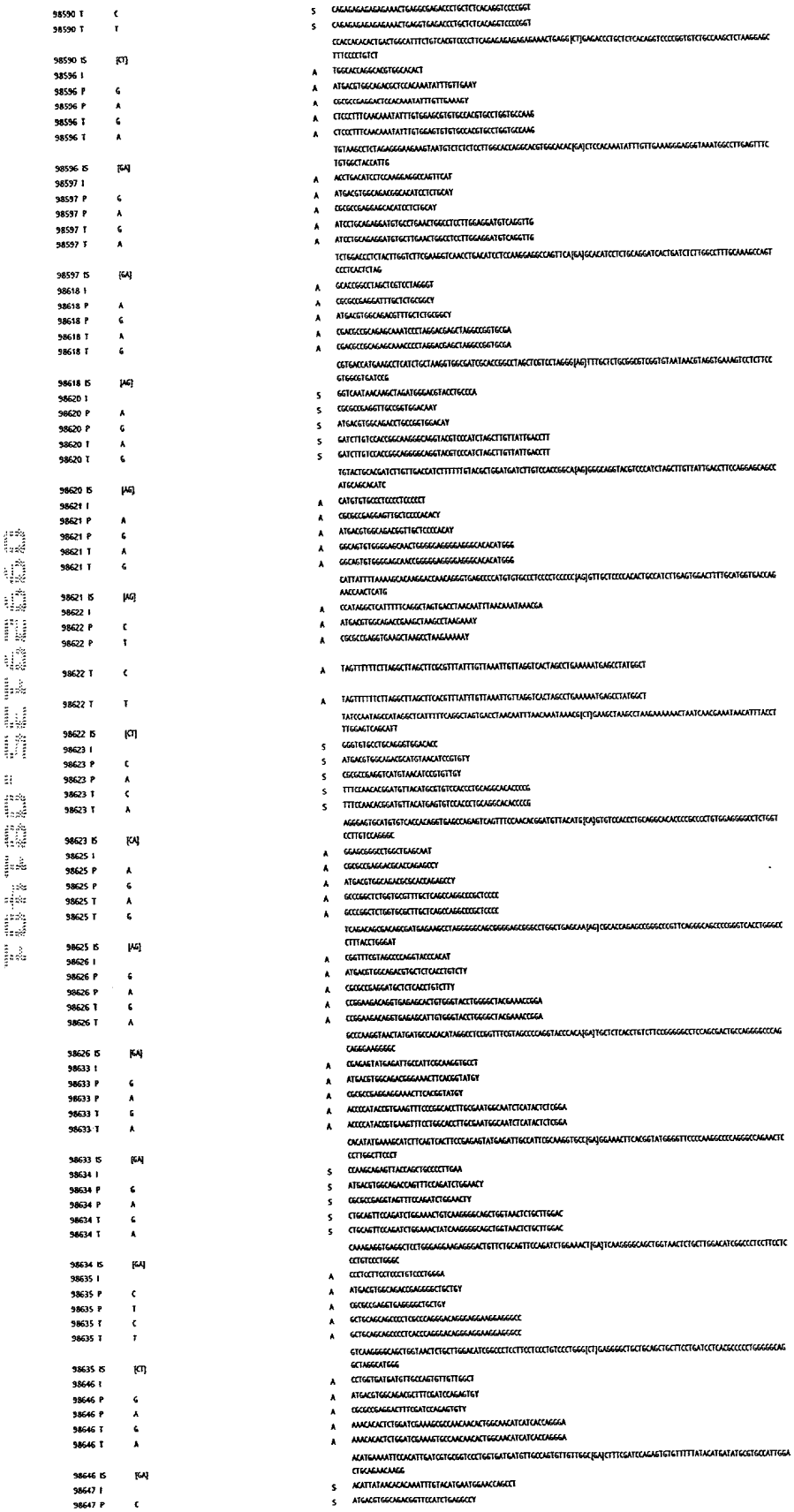


FIGURE 129C

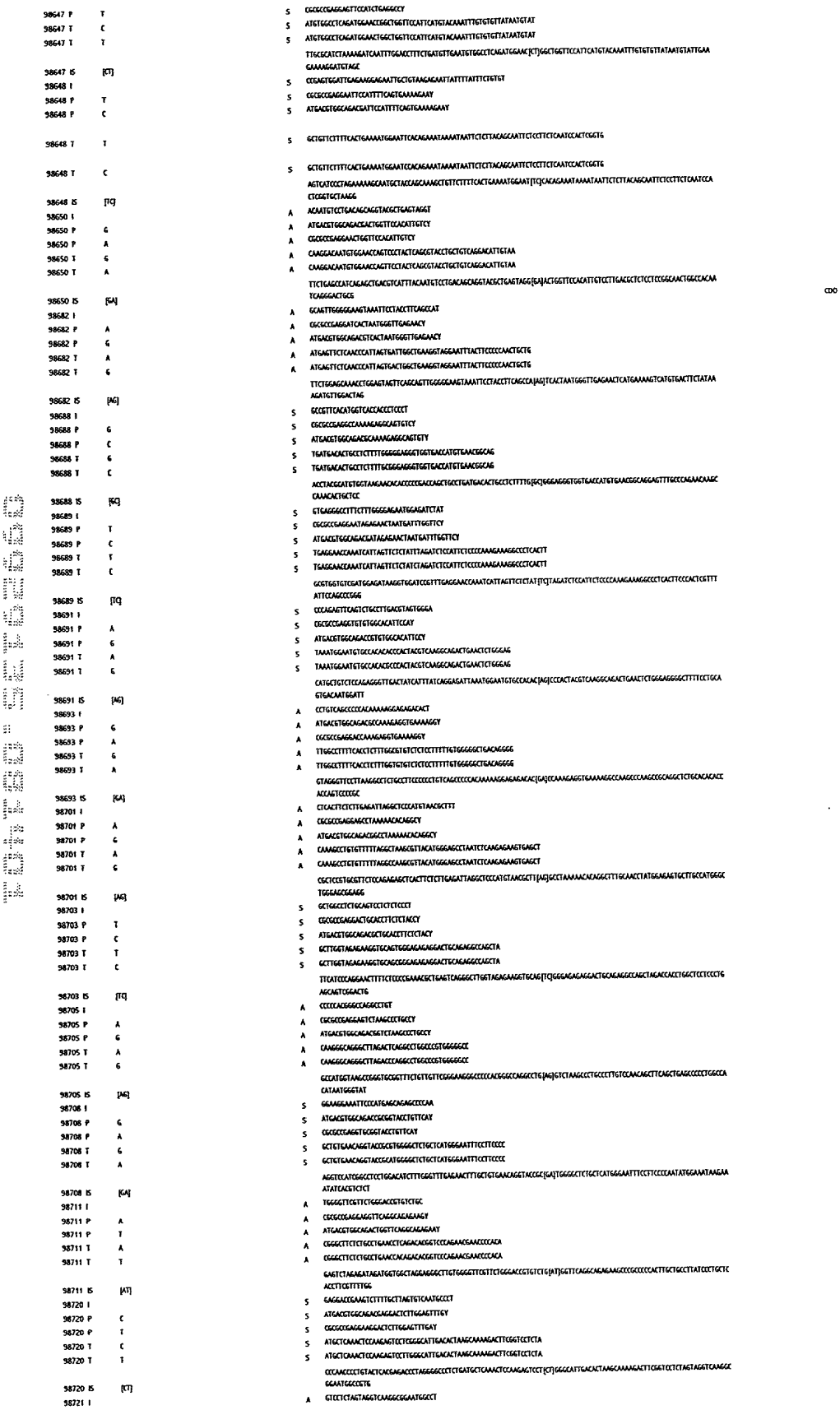
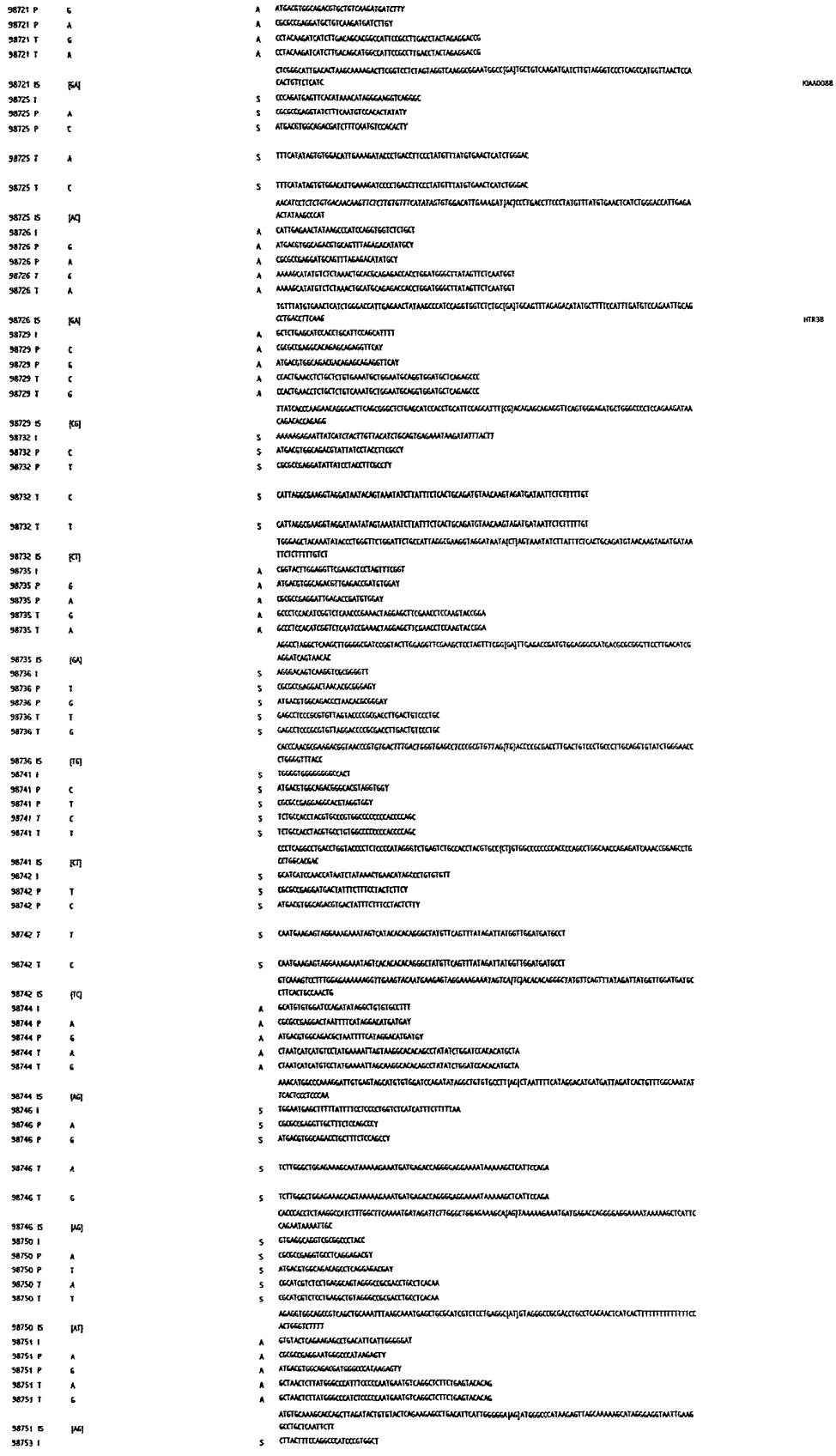
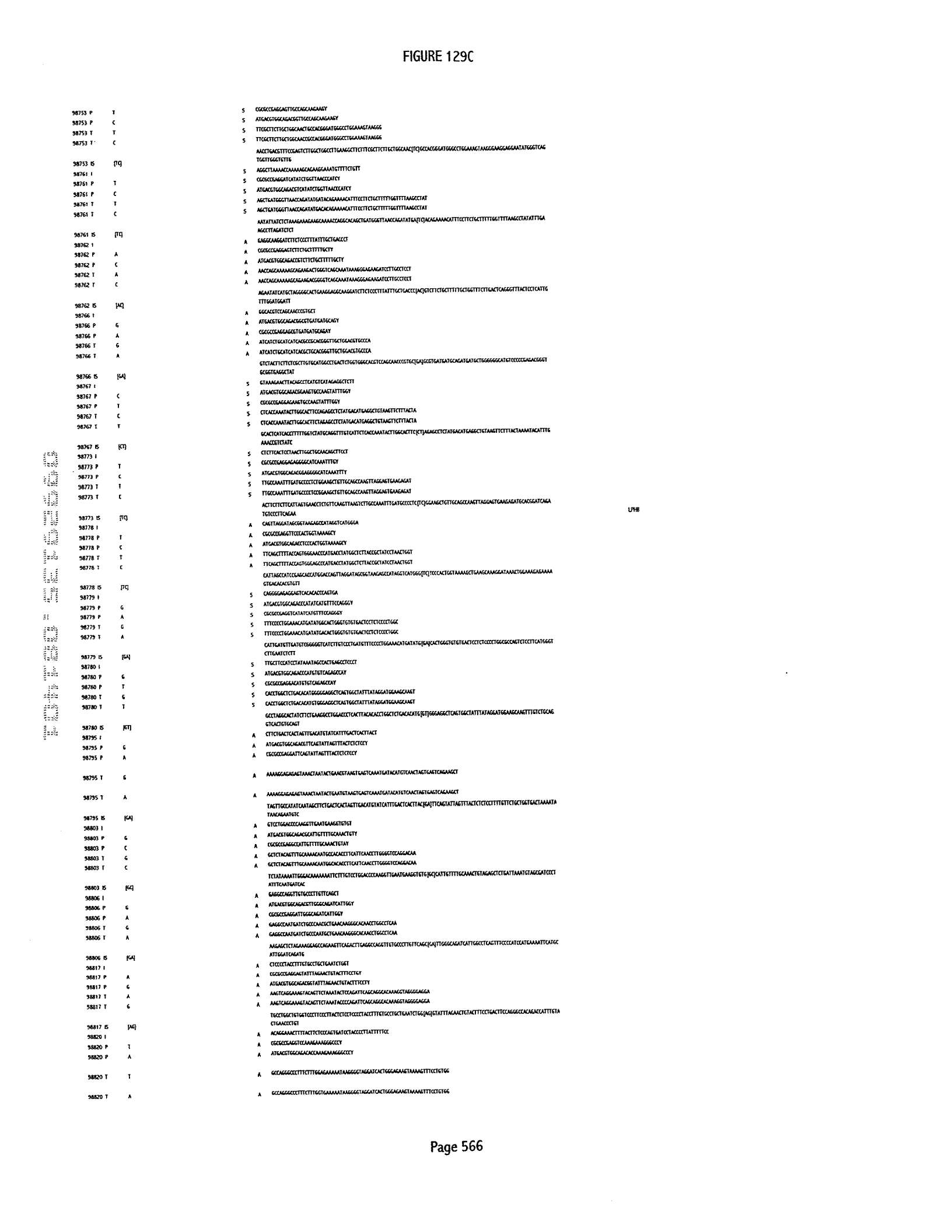


FIGURE 129C





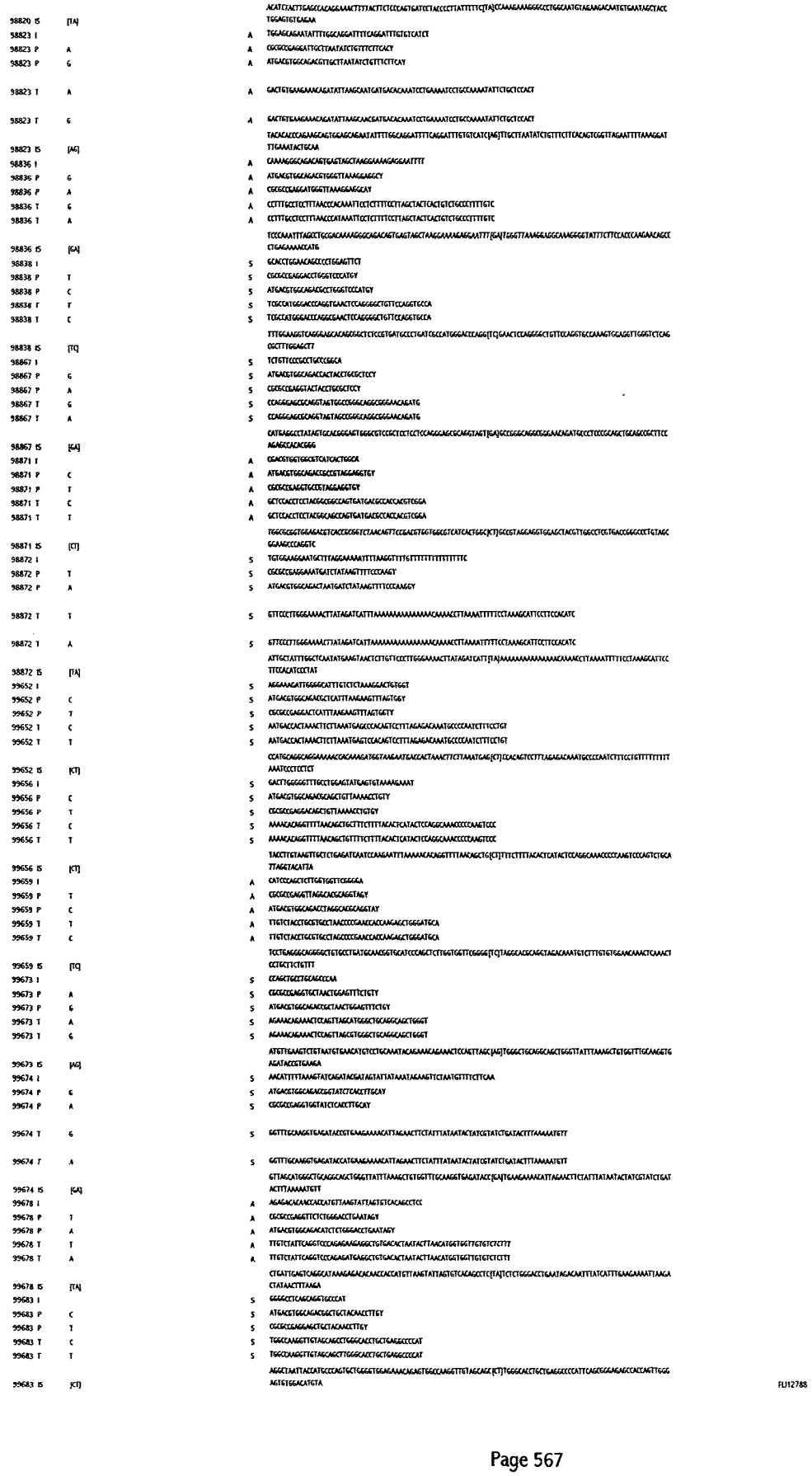
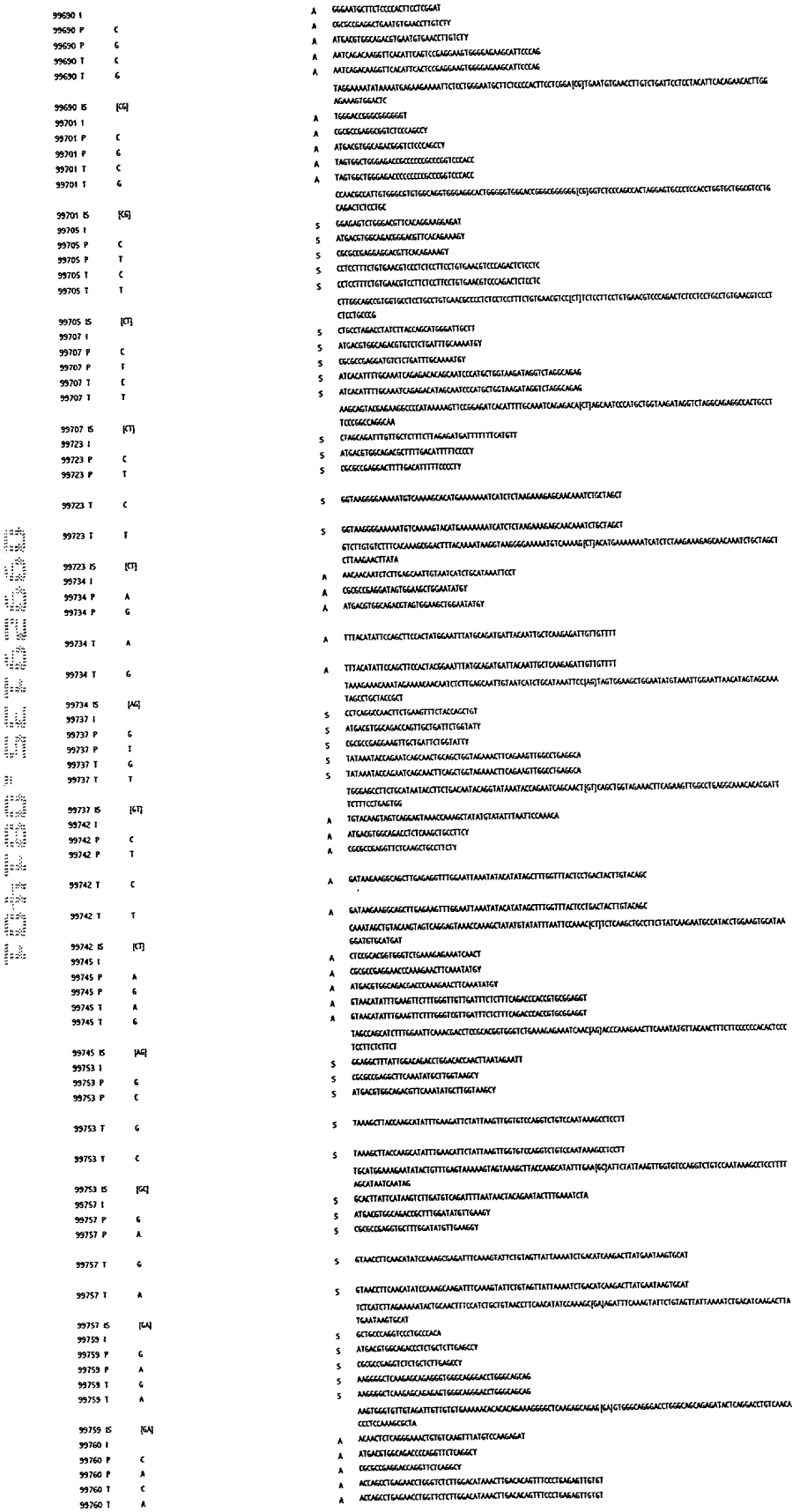
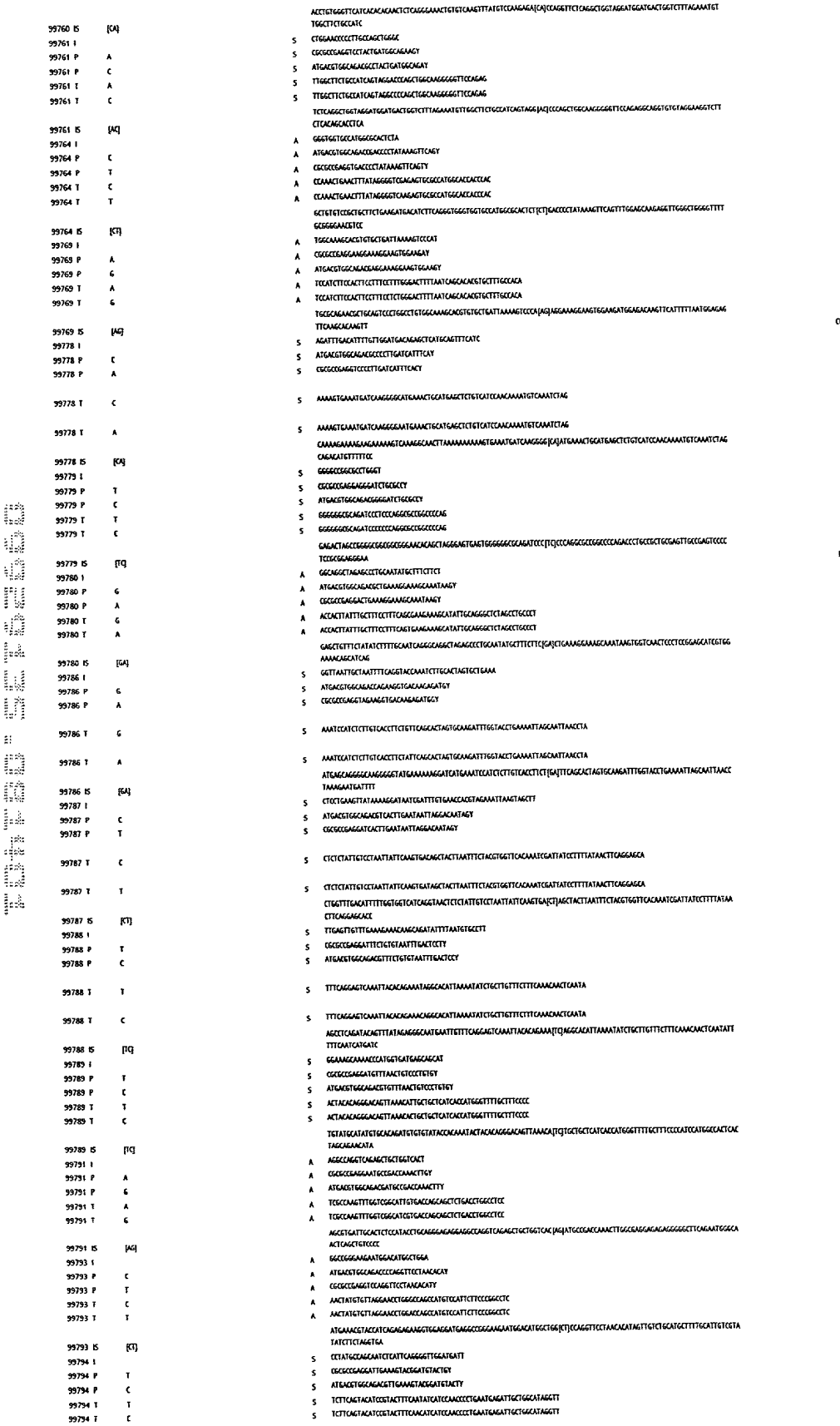


FIGURE 129C




CUL4A
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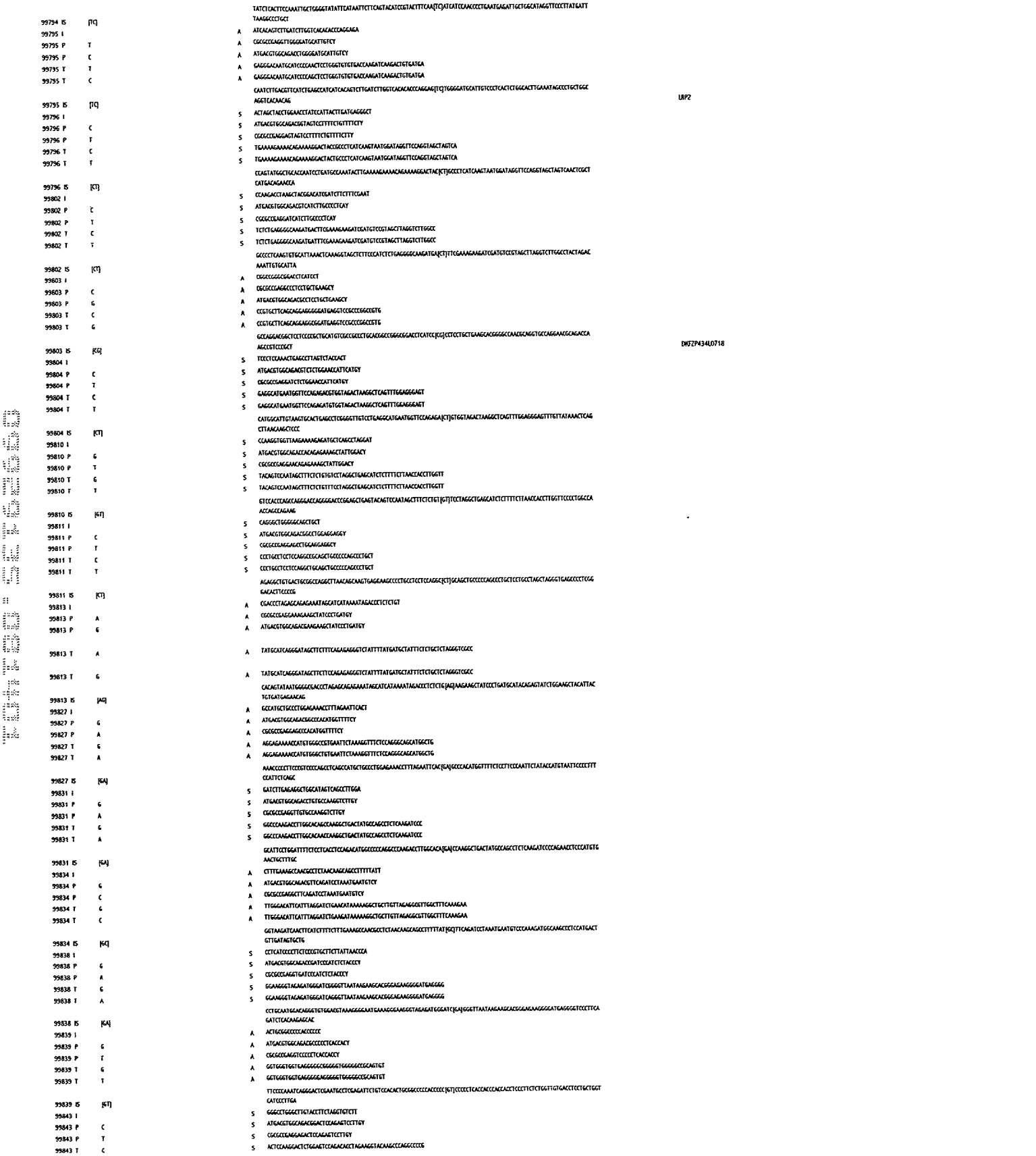

LRP2
DKFZP434L0718

FIGURE 129C

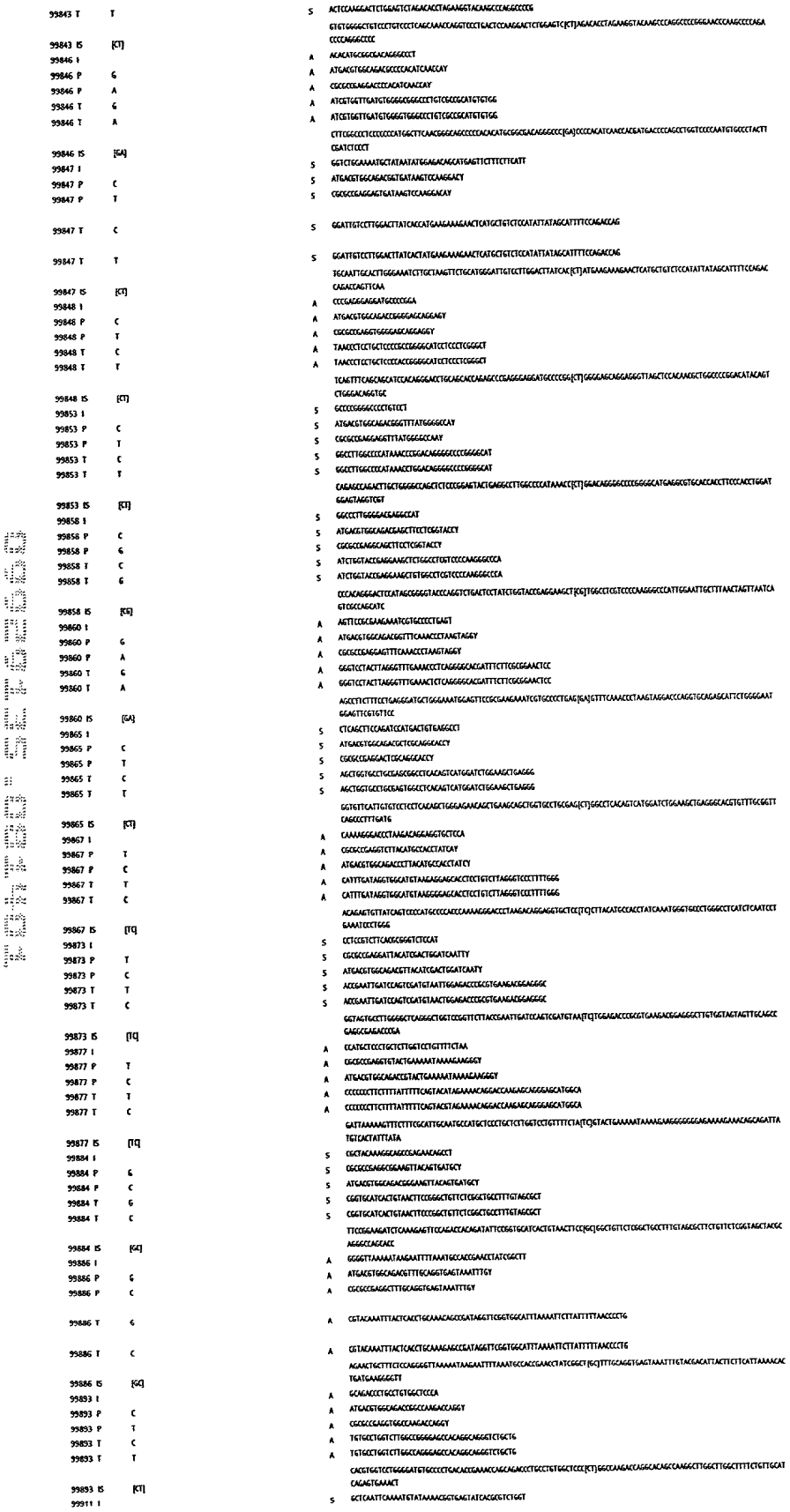
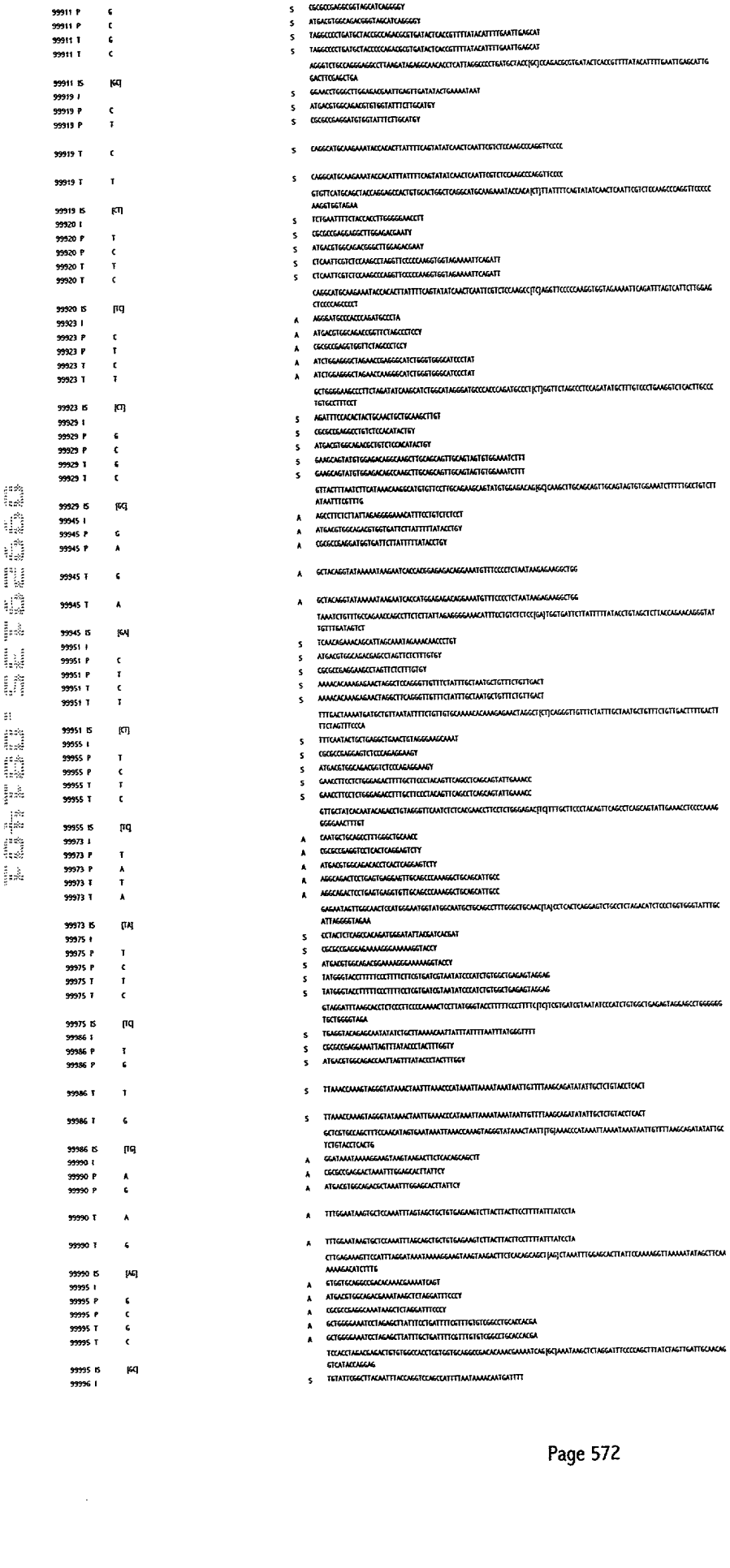
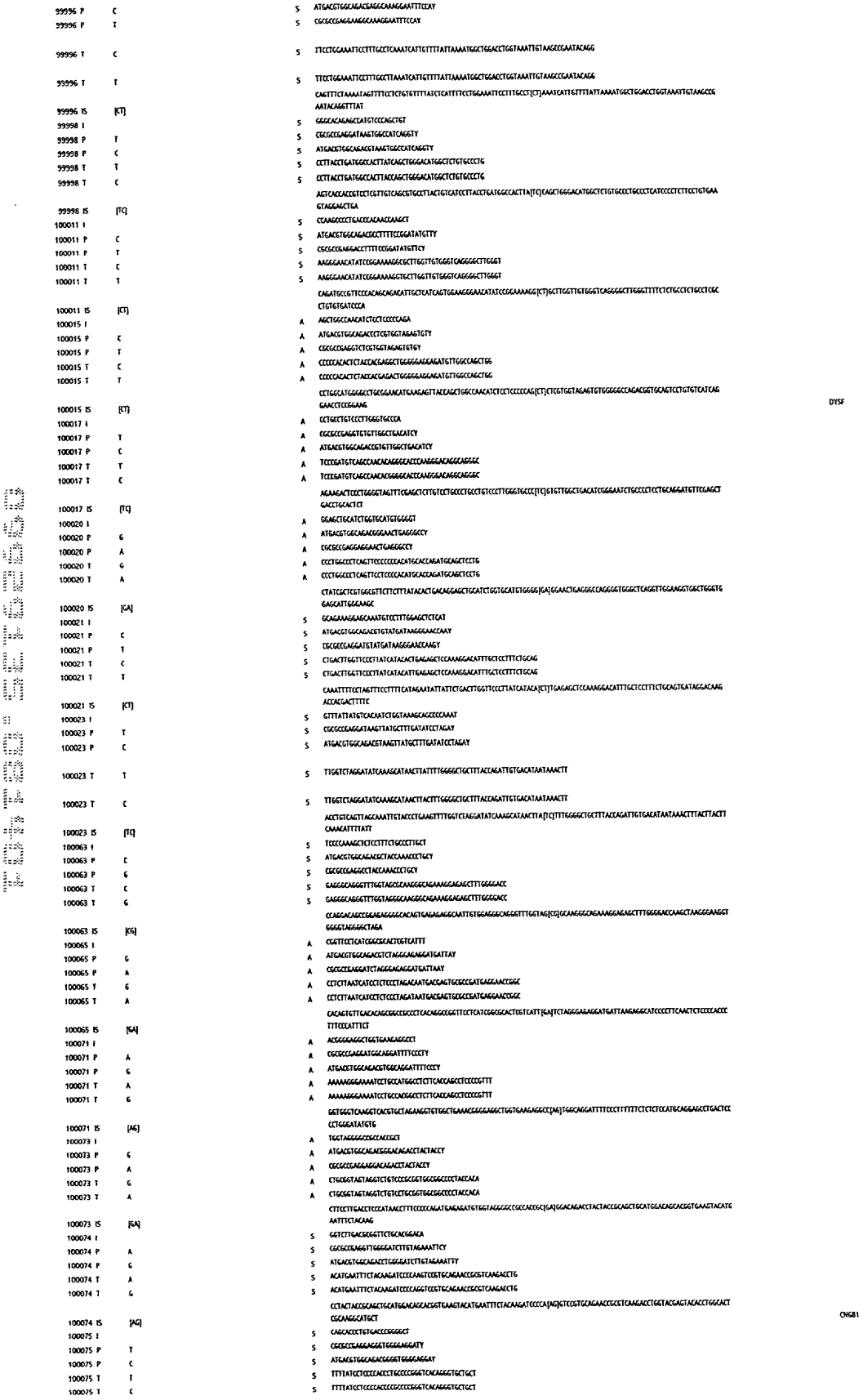


FIGURE 129C




99996 P C S ATGACGTGGCAGACGAGGCAAAGGAATTTCCAY
99996 P T S CGCGCCGAGGAAGGCAAAGGAATTTCCAY
99996 T C S TTCCTGGAAATTCCTTTGCCTCAAATCATTGTTTTATTAAAATGGCTGGACCTGGTAAATTGTAAGCCGAATACAGG
99996 T T S TTCCTGGAAATTCCTTTGCCTTAAATCATTGTTTTATTAAAATGGCTGGACCTGGTAAATTGTAAGCCGAATACAGG
CAGTTTCTAAAATAGTTTTCCTCTGTGTTTTATCTCATTTTCCTGGAAATTCCTTTGCCT[CT]AAATCATTGTTTTATTAAAATGGCTGGACCTGGTAAATTGTAAGCCG
99996 TS [CT] AATACAGGTTTAT
99998 I S GGGCACAGAGCCATGTCCCAGCTGT
99998 P T S CGCGCCGAGGATAAGTGGCCATCAGGTY
99998 P C S ATGACGTGGCAGACGTAAGTGGCCATCAGGTY
99998 T T S CCTTACCTGATGGCCACTTATCAGCTGGGACATGGCTCTGTGCCCTG
99998 T C S CCTTACCTGATGGCCACTTACCAGCTGGGACATGGCTCTGTGCCCTG
AGTCACCACCGTCCTCGTTGTCAGCGTGCCTTACTGTCATCCTTACCTGATGGCCACTTA[TC]CAGCTGGGACATGGCTCTGTGCCCTGCCCTCATCCCCTCTTCCTGTGAA
99998 TS [TC] GTAGGAGCTGA
100011 I S CCAAGCCCTCACCCACAACCAAGCT
100011 P C S ATGACGTGGCAGACGCCTTTTCCGGATATGTTY
100011 P T S CGCGCCGAGGAACCTTTTCCGGATATGTTCY
100011 T C S AAGGGAACATATCCGGAAAAGGCGCTTGGTTGTGGGTCAGGGGCTTGGGT
100011 T T S AAGGGAACATATCCGGAAAAGGTGCTTGGTTGTGGGTCAGGGGCTTGGGT
CAGATGCCGTTCCCACAGCAGACATTGCTCATCAGTGGAAGGGAACATATCCGGAAAAGG[CT]GCTTGGTTGTGGGTCAGGGGCTTGGGTTTTCTCTGCCTCTGCCTCGC
100011 TS [CT] CTGTGTGATCCCA
100015 I A AGCTGGCCAACATCTCCTCCCCCAGA
100015 P C A ATGACGTGGCAGACCCTCGTGGTAGAGTGTGY
100015 P T A CGCGCCGAGGTCTCGTGGTAGAGTGTGY
100015 T C A CCCCCACACTCTACCACGAGGCTGGGGGAAGGAAGATGTTGGCCAGCTGG
100015 T T A CCCCCACACTCTACCACGAGACTGGGGGAAGGAAGATGTTGGCCAGCTGG
CCTGGCATGGGGCCTGCGGAACATCAAGAGTTACCAGCTGGCCAACATCTCCTCCCCCAG[CT]CTCGTGGTAGAGTGTGGGGGCCAGACGGTGCAGTCCTGTGTCATCAG
100015 TS [CT] GAACCTCCGGAAG DYSF
100017 I A CCTGCCTGTCCCTTGGGTGCCCA
100017 P T A CGCGCCGAGGTGTGTTGGCTGACATCY
100017 P C A ATGACGTGGCAGACCCTGTGGTGACATCY
100017 T T A TCCCGATGTCAGCCAACACAGGGCACCCAAGGGACAGGCAGGGC
100017 T C A TCCCGATGTCAGCCAACACAGGGGCACCCAAGGGACAGGCAGGGC
AGAAGACTCCCTGGGGTAGTTCGAGCTCTTGTCCTGCCCTGCCTGTCCCTTGGGTGCCC[TC]GTGTTGGCTGACATCGGGAATCTGCCCCTCCTGCAGGATGTTCCAGCT
100017 TS [TC] GACCTGCACTCT
100020 I A GGAGCTGCATCTGGTGCATGTGGGGT
100020 P G A ATGACGTGGCAGACGGGAACTGAGGGCCY
100020 P A A CGCGCCGAGGAGGAACTGAGGGCCY
100020 T G A CCCTGGCCCTCAGTTCCCCCCACATGCACCAGATGCAGCTCCTG
100020 T A A CCCTGGCCCTCAGTTCCTCCCCACATGCACCAGATGCAGCTCCTG
CTATCGCTCGTGGGGTTCTTCTTTATACACTCACAGGAGCTGCATCTGGTGCATGTGGGG[GA]GGAACTGAGGGCCAGGGGGTGGGCTCAGGTTGGAAGGTGGCTGGGTG
100020 TS [GA] GAGCATTGGGAAGC
100021 I S GCAGAAAGGAGCAAATGTCCTTTGGAGCTCTCAT
100021 P C S ATGACGTGGCAGACGTGTATGATAAGGGAACCAAY
100021 P T S CGCGCCGAGGATGTATGATAAGGGAACCAAGY
100021 T C S CTGACTTGGTTCCCTTATCATACACTGAGAGCTCCAAAGGACATTTGCTCCTTTCTGCAG
100021 T T S CTGACTTGGTTCCCTTATCATACACATTGAGAGCTCCAAAGGACATTTGCTCCTTTCTGCAG
CAAATTTTCCTAGTTTCCTTTTCATAGAATATTATTCTGACTTGGTTCCCTTATCATACA[CT]TGAGAGCTCCAAAGGACATTTGCTCCTTTCTGCAGTGATAGGACAAG
100021 TS [CT] ACCACGACTTTTC
100023 I S GTTTATTATGTCACAATCTGGTAAAGCAGCCCCAAAT
100023 P T S CGCGCCGAGGATAAGTTATGCTTTGATATCCTAGAY
100023 P C S ATGACGTGGCAGACGTAAGTTATGCTTTGATATCCTAGAY
100023 T T S TTGGTCTAGGATATCAAAGCATAACTTATTTTGGGGCTGCTTTACCAGATTGTGACATAATAAACTT
100023 T C S TTGGTCTAGGATATCAAAGCATAACTTACTTTGGGGCTGCTTTACCAGATTGTGACATAATAAACTT
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100023 TS [TC] CAAACATTTTATT
100063 I S TCCCCAAAGCTCTCCTTTCTGCCCTTGCT
100063 P C S ATGACGTGGCAGACGCTACCAAACCTGCY
100063 P G S CGCGCCGAGGCCTACCAAACCTGCY
100063 T C S GAGGGCAGGGTTTGGTAGCGCAAGGGCAGAAAGGAGAGCTTTGGGGACC
100063 T G S GAGGGCAGGGTTTGGTAGGGCAAGGGCAGAAAGGAGAGCTTTGGGGACC
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100063 TS [CG] GGGGTAGGGGCTAGA
100065 I A CGGTTCCTCATCGGCGCACTCGTCATTT
100065 P G A ATGACGTGGCAGACGTCTAGGGAAGAGGATGATTAY
100065 P A A CGCGCCGAGGATCTAGGGAAGAGGATGATTAAY
100065 T G A CCTCTTAATCATCCTCTCCCTAGATAATGACGAGTGCGCCGATGAGGAACCGGC
100065 T A A CCTCTTAATCATCCTCTCCCTAGATAATGACGAGTGCGCCGATGAGGAACCGGC
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100065 TS [GA] TTTCCCATTTCT
100071 I A ACGGGGAGGCTGGTGAAGAGGCCT
100071 P A A CGCGCCGAGGATGGCAGGATTTTCCCTY
100071 P G A ATGACGTGGCAGACGTGGCAGGATTTTCCCY
100071 T A A AAAAGGGAAAATCCTGCCATGGCCTCTTCACCAGCCTCCCCGTTT
100071 T G A AAAAGGGAAAATCCTGCCATGGCCTCTTCACCAGCCTCCCCGTTT
GGTGGCTCAAGGTCACGTGCTAGAAGGTGTGGCTGAAACGGGGAGGCTGGTGAAGAGGCC[AG]TGGCAGGATTTTCCCTTTTTCTCTCTCCATGCAGGAGCCTGACTCC
100071 TS [AG] CCTGGGATATGTG
100073 I A TGCTAGGGGCCGCCACCGCT
100073 P G A ATGACGTGGCAGACGGGACAGACCTACTACCY
100073 P A A CGCGCCGAGGAGGCACAGACCTACTACCY
100073 T G A CTGCGGTAGTAGGTCTGTCCCGCGGTGGCGGCCCCTACCACA
100073 T A A CTGCGGTAGTAGGTCTGTCCTGCGGTGGCGGCCCCTACCACA
CTTCCTTGACCTCCCATAACCTTTCCCCCAGATGAGAGATGTGGTAGGGCCCGCCACCGC[GA]GGACAGACCTACTACCGCAGCTGCATGGACAGCACGGTGAAGTACATG
100073 TS [GA] AATTTCTACAAG
100074 I S GGTCTTGACGCGGTTCTGCACGGACA
100074 P A S CGCGCCGAGGTGGGGATCTTGTAGAAATTCY
100074 P G S ATGACGTGGCAGACCTGGGGATCTTGTAGAAATTY
100074 T A S ACATGAATTTCTACAAGATCCCCAAGTCCGTGCAGAACCGCGTCAAGACCTG
100074 T G S ACATGAATTTCTACAAGATCCCCAGGTCCGTGCAGAACCGCGTCAAGACCTG
CCTACTACCGCAGCTGCATGGACAGCACGGTGAAGTACATGAATTTCTACAAGATCCCCA[AG]GTCCGTGCAGAACCGCGTCAAGACCTGGTACGAGTACACCTGGCACT
100074 TS [AG] CGCAAGGCATGCT CNGB1
100075 I S CAGCACCCTGTCACCCGGGGCT
100075 P T S CGCGCCCAGCAGGGTGGGGAGGATT
100075 P C S ATGACGTGGCAGACGGGGTGGGGAGGAT
100075 T T S TTTTATCCTCCCCACCCTGCCCCGGGTCACAGGGTGCTGCT
100075 T C S TTTTATCCTCCCCACCCGCCCCGGGTCACAGGGTGCTGCT

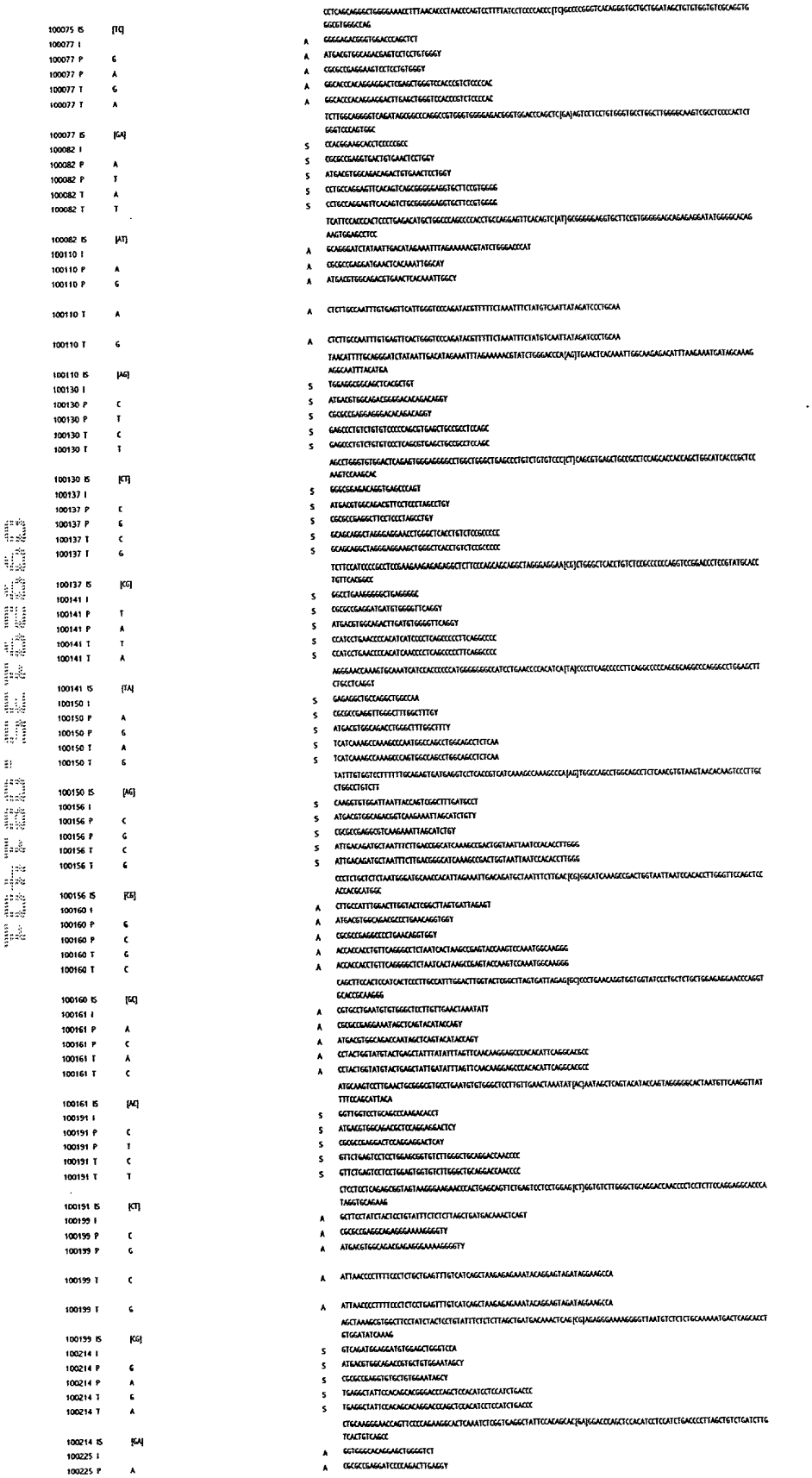


FIGURE 129C

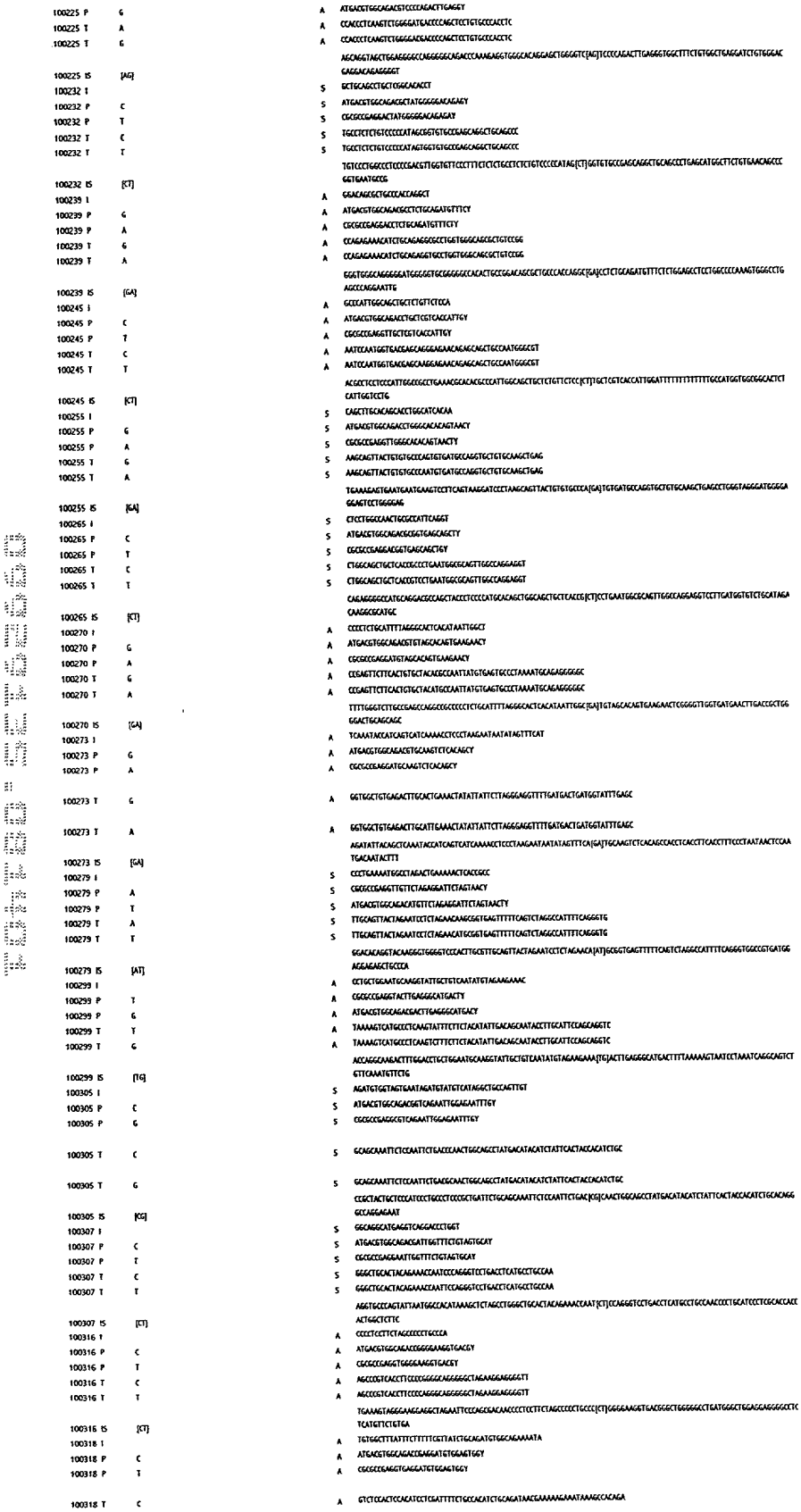


FIGURE 129C

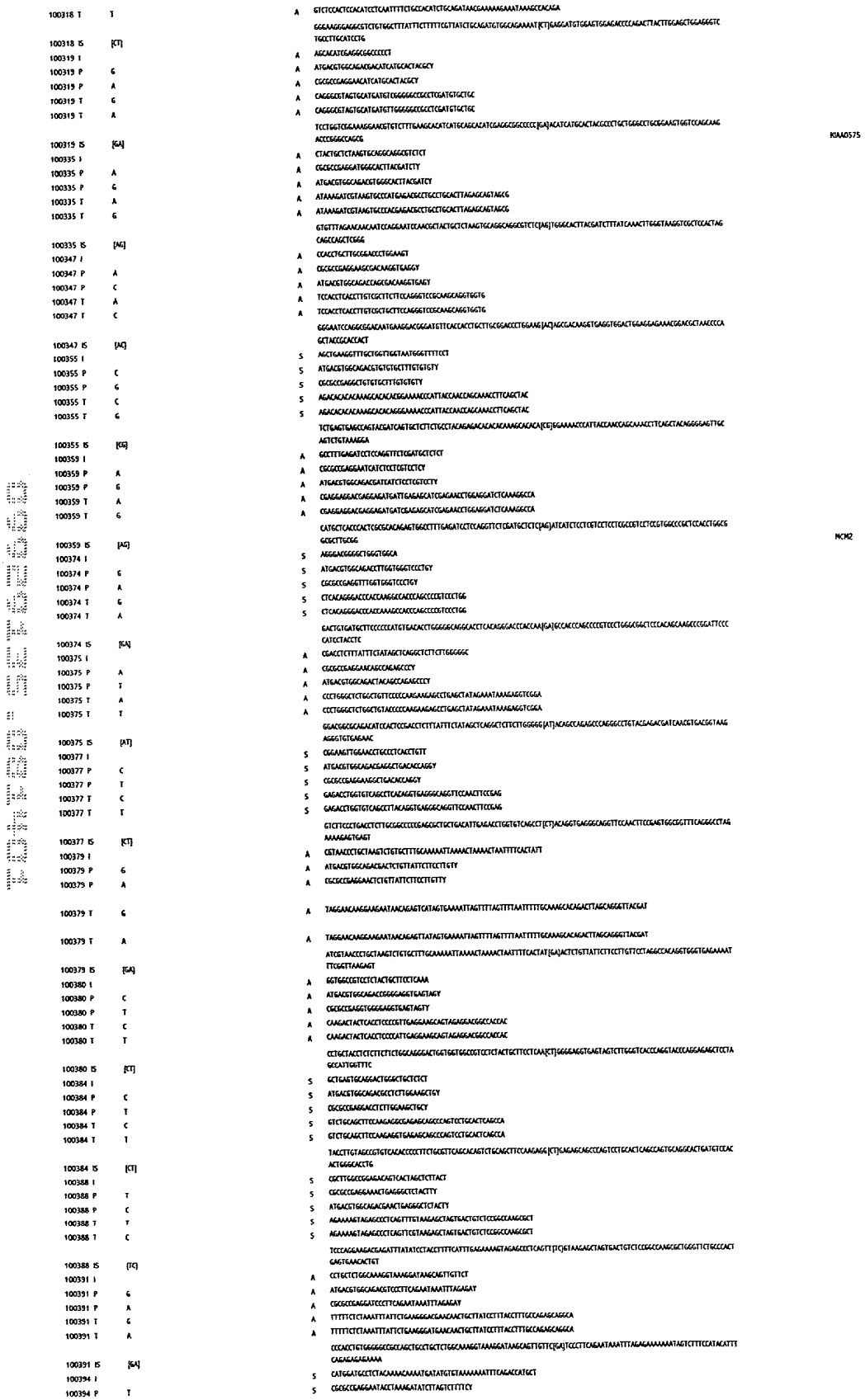


FIGURE 129C

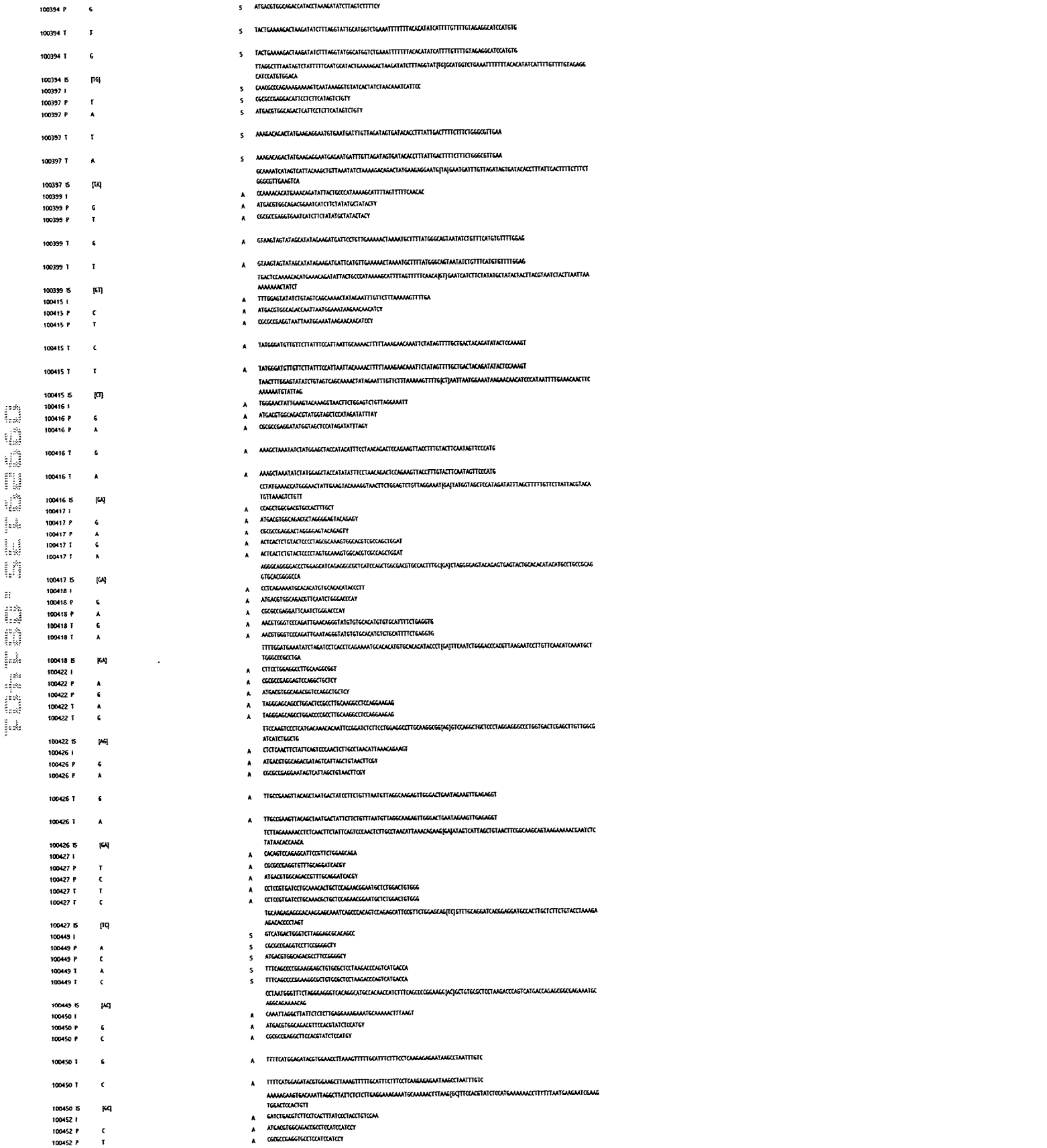


FIGURE 129C

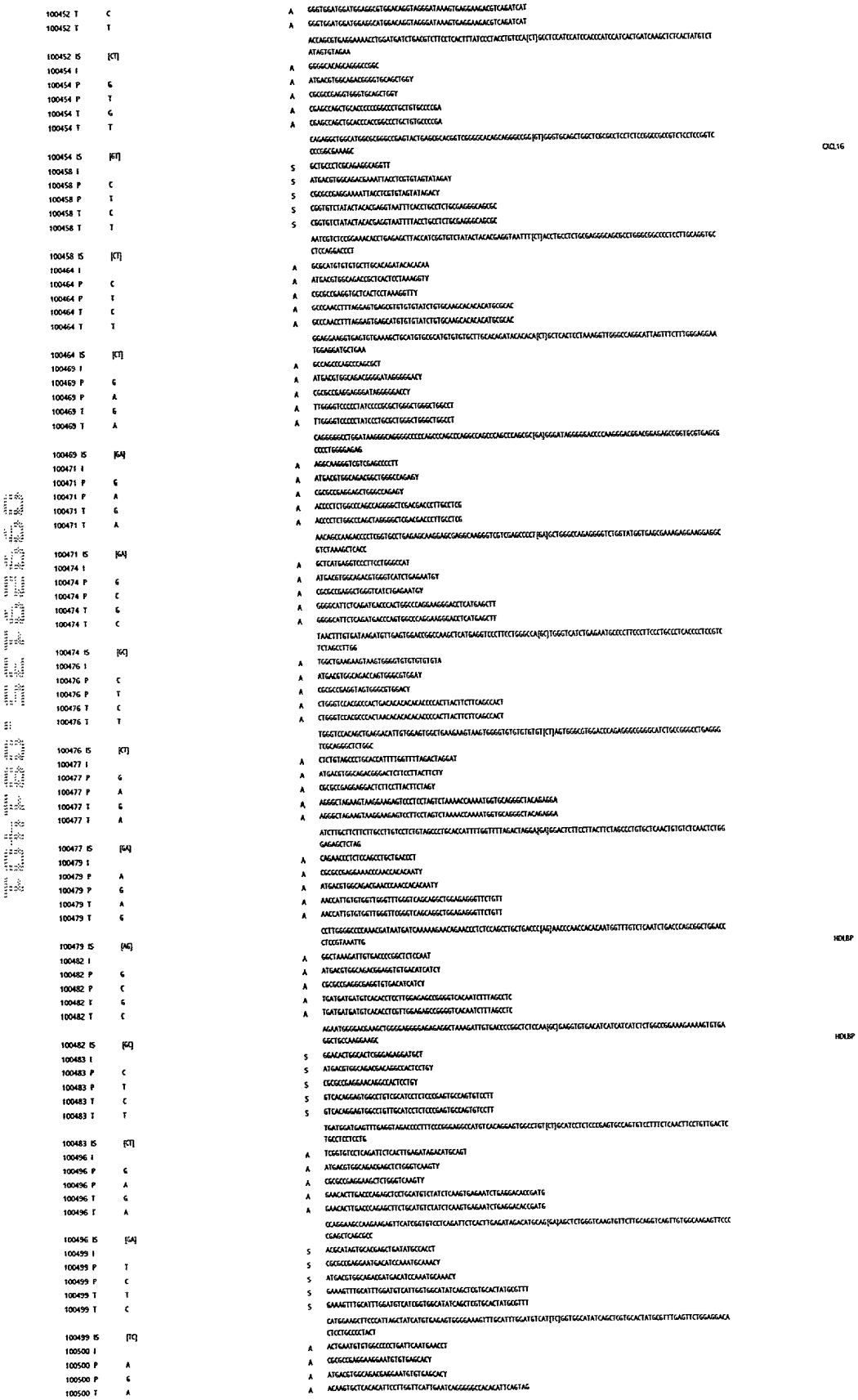
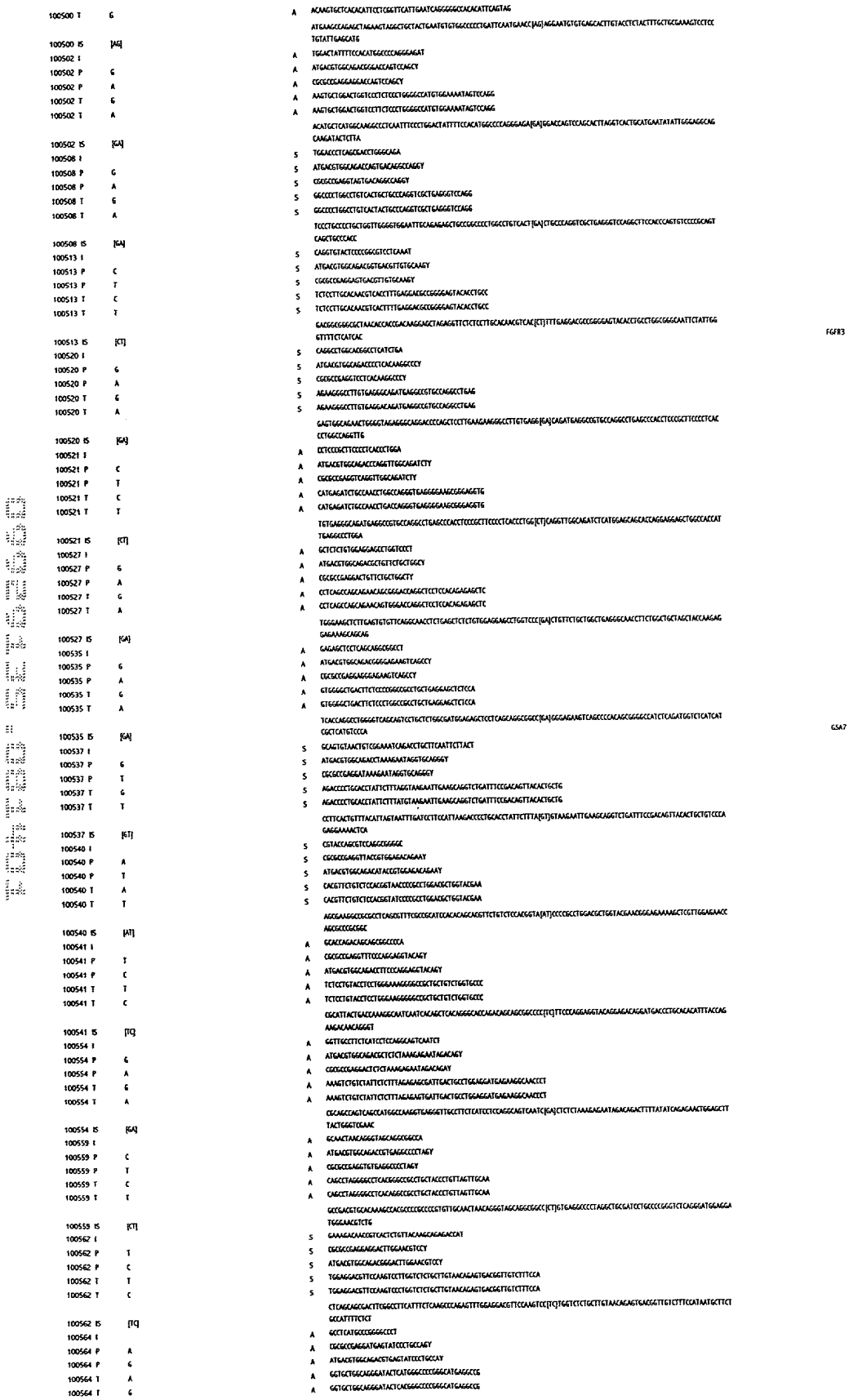
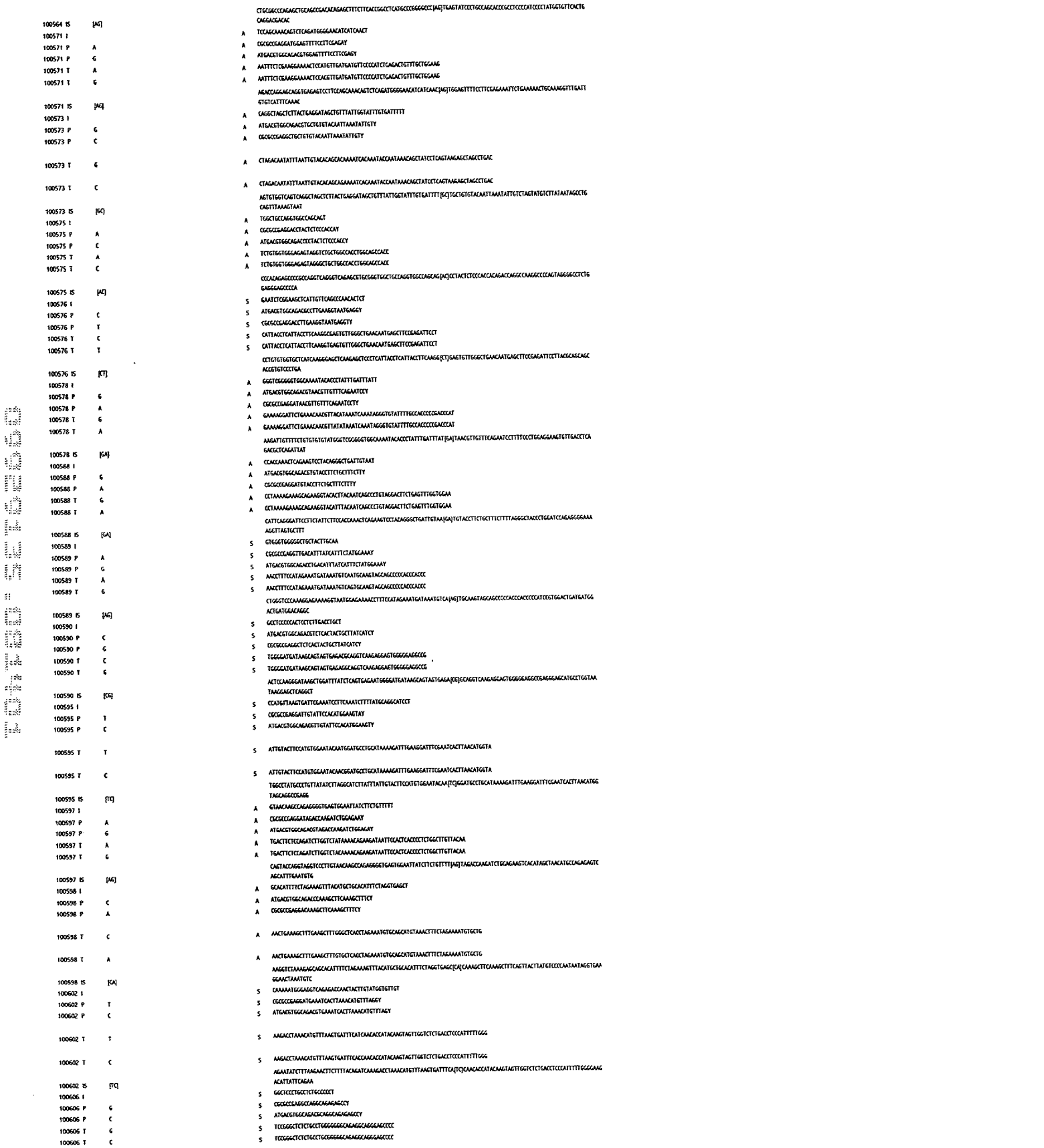


FIGURE 129C




100564 IS [AG]
100571 I
100571 P A
100571 P G
100571 T A
100571 T G
100571 IS [AG]
100573 I
100573 P G
100573 P C
100573 T G
100573 T C
100573 IS [GC]
100575 I
100575 P A
100575 P C
100575 T A
100575 T C
100575 IS [AC]
100576 I
100576 P C
100576 P T
100576 T C
100576 T T
100576 IS [CT]
100578 I
100578 P G
100578 P A
100578 T G
100578 T A
100578 IS [GA]
100588 I
100588 P G
100588 P A
100588 T G
100588 T A
100588 IS [GA]
100589 I
100589 P A
100589 P G
100589 T A
100589 T G
100589 IS [AG]
100590 I
100590 P C
100590 P G
100590 T C
100590 T G
100590 IS [CG]
100595 I
100595 P T
100595 P C
100595 T T
100595 T C
100595 IS [TC]
100597 I
100597 P A
100597 P G
100597 T A
100597 T G
100597 IS [AG]
100598 I
100598 P C
100598 P A
100598 T C
100598 T A
100598 IS [CA]
100602 I
100602 P T
100602 P C
100602 T T
100602 T C
100602 IS [TC]
100606 I
100606 P G
100606 P C
100606 T G
100606 T C

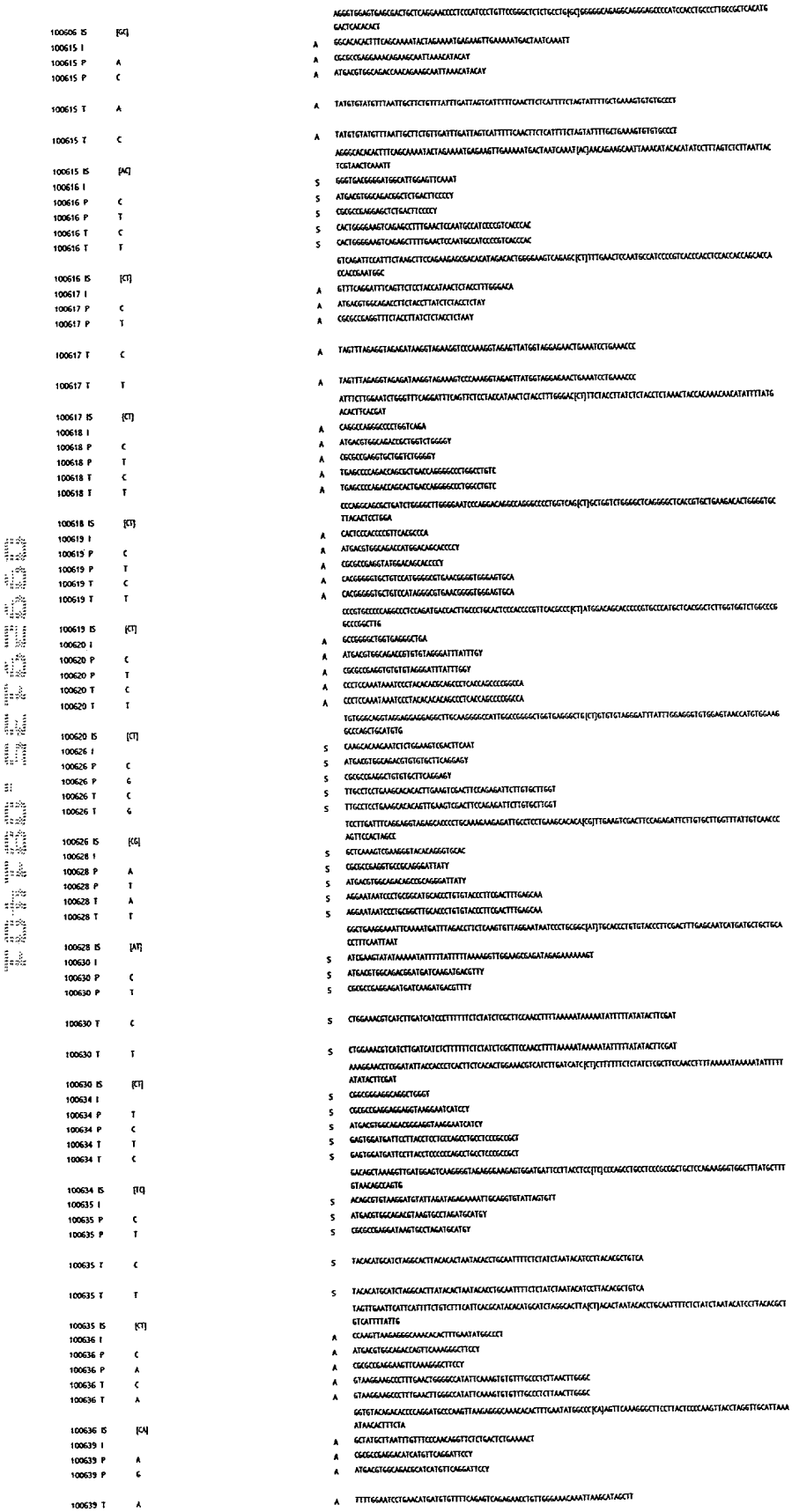
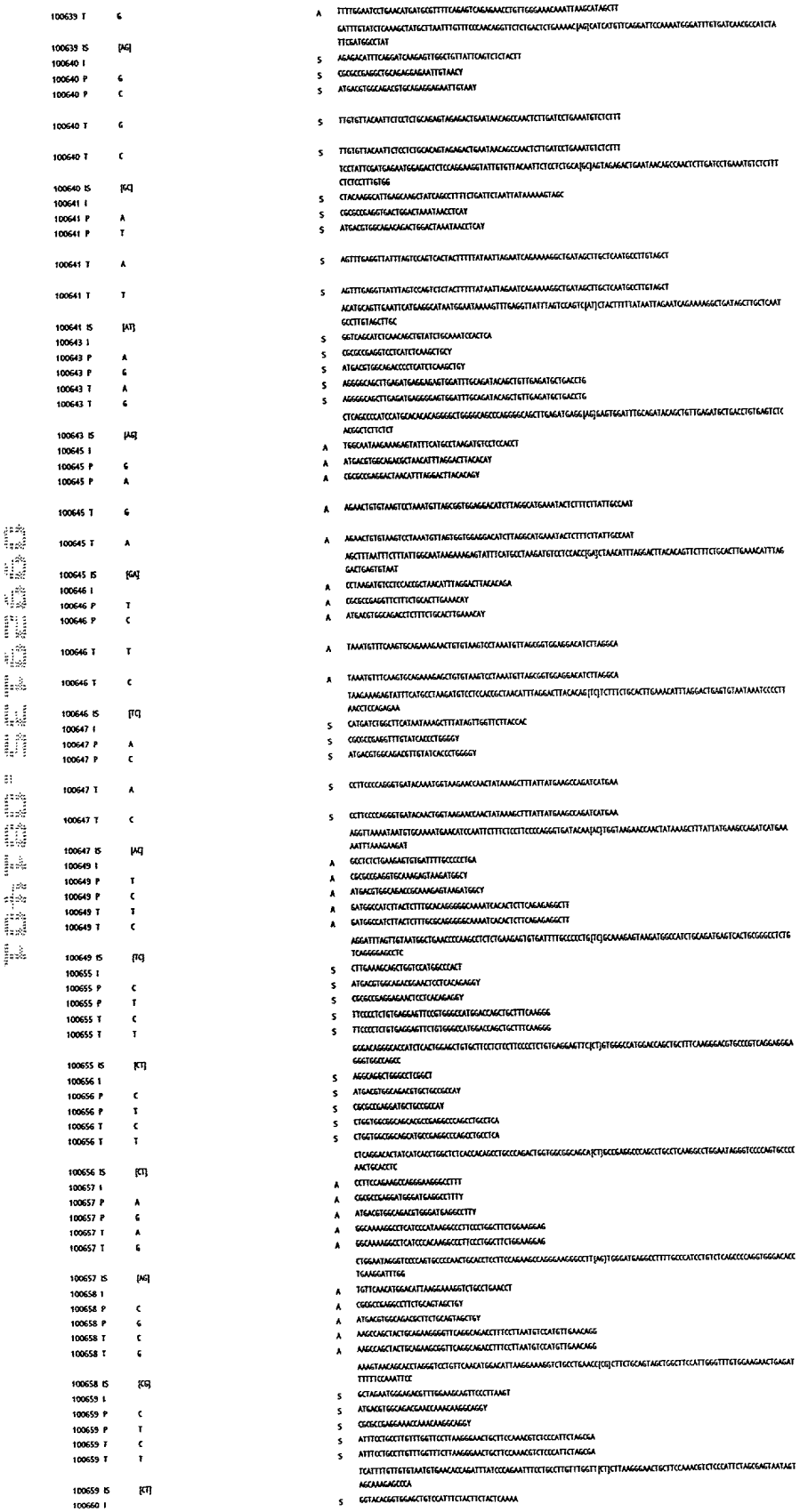
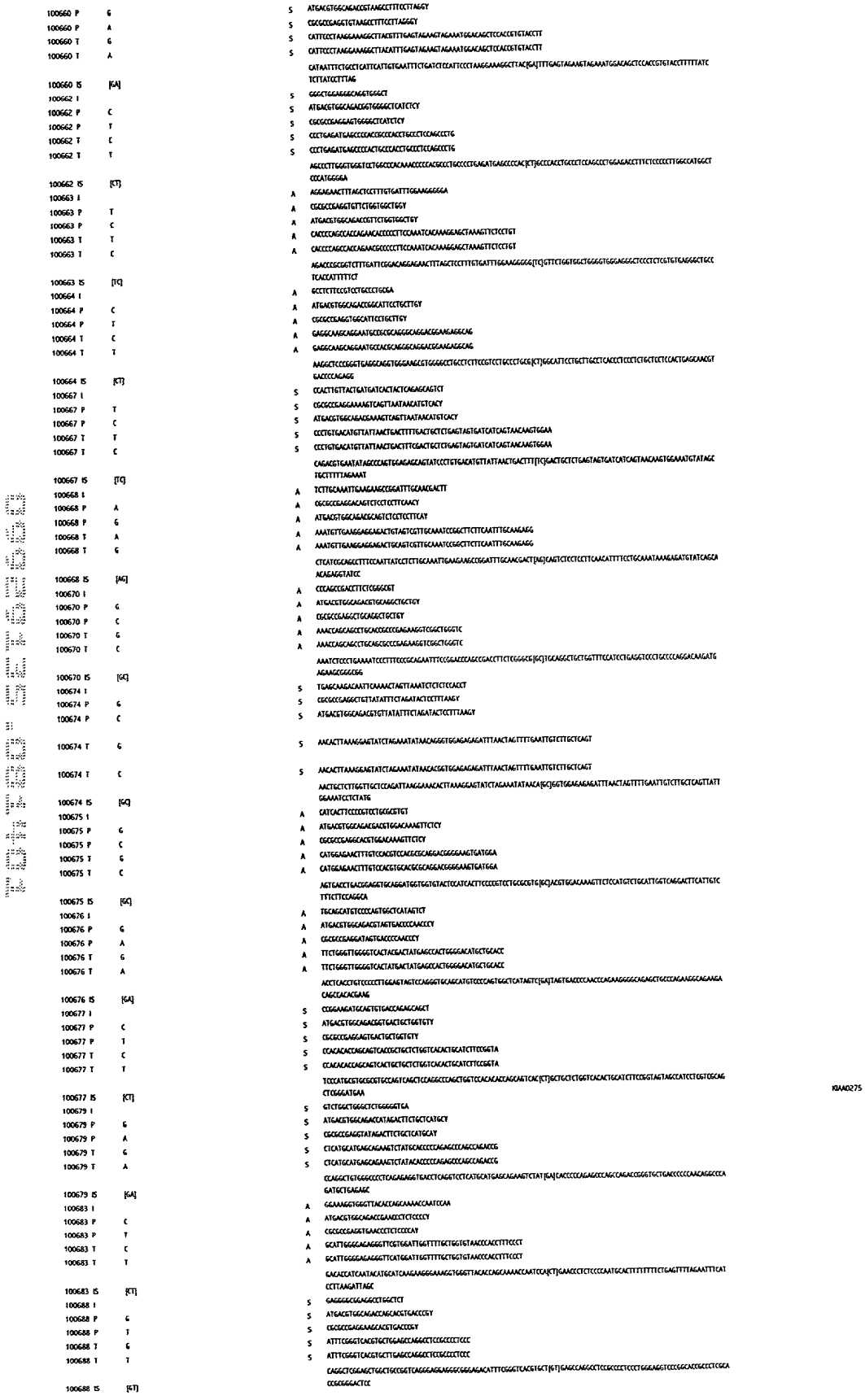
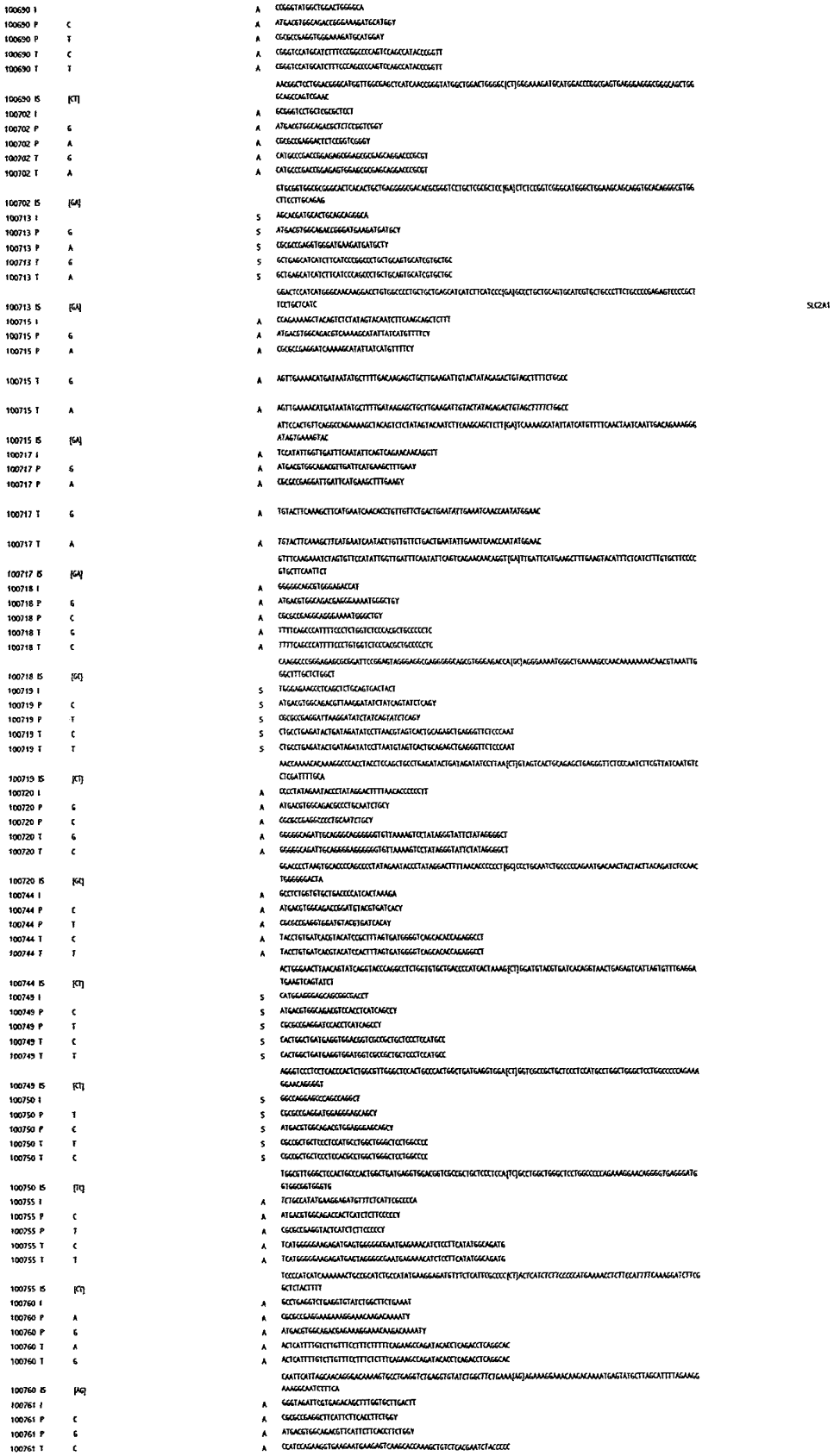

100606 IS [GC]
100615 I
100615 P A
100615 P C
100615 T A
100615 T C
100615 IS [AC]
100616 I
100616 P C
100616 P T
100616 T C
100616 T T
100616 IS [CT]
100617 I
100617 P C
100617 P T
100617 T C
100617 T T
100617 IS [CT]
100618 I
100618 P C
100618 P T
100618 T C
100618 T T
100618 IS [CT]
100619 I
100619 P C
100619 P T
100619 T C
100619 T T
100619 IS [CT]
100620 I
100620 P C
100620 P T
100620 T C
100620 T T
100620 IS [CT]
100626 I
100626 P C
100626 P G
100626 T C
100626 T G
100626 IS [CG]
100628 I
100628 P A
100628 P T
100628 T A
100628 T T
100628 IS [AT]
100630 I
100630 P C
100630 P T
100630 T C
100630 T T
100630 IS [CT]
100634 I
100634 P T
100634 P C
100634 T T
100634 T C
100634 IS [TC]
100635 I
100635 P C
100635 P T
100635 T C
100635 T T
100635 IS [CT]
100636 I
100636 P C
100636 P A
100636 T C
100636 T A
100636 IS [CA]
100639 I
100639 P A
100639 P G
100639 T A

FIGURE 129C




100660 P G
100660 P A
100660 T G
100660 T A
100660 IS [GA]
100662 I
100662 P C
100662 P T
100662 T C
100662 T T
100662 IS [CT]
100663 I
100663 P T
100663 P C
100663 T T
100663 T C
100663 IS [TC]
100664 I
100664 P C
100664 P T
100664 T C
100664 T T
100664 IS [CT]
100667 I
100667 P T
100667 P C
100667 T T
100667 T C
100667 IS [TC]
100668 I
100668 P A
100668 P G
100668 T A
100668 T G
100668 IS [AG]
100670 I
100670 P G
100670 P C
100670 T G
100670 T C
100670 IS [GC]
100674 I
100674 P G
100674 P C
100674 T G
100674 T C
100674 IS [GC]
100675 I
100675 P G
100675 P C
100675 T G
100675 T C
100675 IS [GC]
100676 I
100676 P G
100676 P A
100676 T G
100676 T A
100676 IS [GA]
100677 I
100677 P C
100677 P T
100677 T C
100677 T T
100677 IS [CT]
100679 I
100679 P G
100679 P A
100679 T G
100679 T A
100679 IS [GA]
100683 I
100683 P C
100683 P T
100683 T C
100683 T T
100683 IS [CT]
100688 I
100688 P G
100688 P T
100688 T G
100688 T T
100688 IS [GT]
S ATGACGTGGCAGACCGTAAGCCTTTCCTTAGGY
S CGCGCCGAGGTGTAAGCCTTTCCTTAGGGY
S CATTCCCTAAGGAAAGGCTTACGTTTGAGTAGAAGTAGAAATGGACAGCTCCACCGTGTACCTT
S CATTCCCTAAGGAAAGGCTTACATTTGAGTAGAAGTAGAAATGGACAGCTCCACCGTGTACCTT
CATAATTTCTGCCTCATTCATTGTGAATTTCTGATCTCCATTCCCTAAGGAAAGGCTTACRGATTTTGAGTAGAAGTAGAAATGGACAGCTCCACCGTGTACCTTTTTTATC
TCTTATCCTTTAG
S GGGCTGGAGGGCCAGGTGGGCT
S ATGACGTGGCAGACGGTGGGGCTCATCTCY
S CGCGCCGAGGAGTGGGGCTCATCTCY
S CCCTGAGATGAGCCCCACCGCCCACCTGCCCTCCAGCCCTG
S CCCTGAGATGAGCCCCACTGCCCACCTGCCCTCCAGCCCTG
AGCCCTTGGGTGGGTCCTGCCCACAAACCCCCACGCCCTGCCCCTGAGATGAGCCCCACRCTGCCCACCTGCCCTCCAGCCCTGGAGAACCTTYCTCCCCCTTGGCCATGGCT
CCCATGGGGA
A AGGAGAACTTTAGCTCCTTTGTGATTTGGAAGGGGGA
A CGCGCCGAGGTGTTCTGGTGGCTGY
A ATGACGTGGCAGACCGTTCTGGTGGCTGY
A CACCCCAGCCACCAGAACACCCCCTTCCAAATCACAAAGGAGCTAAAGTTCTCCTGT
A CACCCCAGCCACCAGAACGCCCCCTTCCAAATCACAAAGGAGCTAAAGTTCTCCTGT
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TCACCATTTTTCT
A GCCTCTTCCGTCCTGCCTGCGA
A ATGACGTGGCAGACCGGCATTCCTGCTTGY
A CGCGCCGAGGTGGCATTCCTGCTTGY
A GAGGCAAGCAGGAATGCCGCGCAGGGCAGGACGGAAGAGGCAG
A GAGGCAAGCAGGAATGCCACGCAGGGCAGGACGGAAGAGGCAG
AAGGCTCCCGGGTGAGGCAGGTGGGAAGCGTGGGGCCTGCCTCTTCCGTCCTGCCCTGCG[CT]GGCATTCCTGCTTGCCTCACCCTCCCTCTGCTCCTCCACTGAGCAACGT
GACCCCAGAGG
S CCACTTGTTACTGATGATCACTACTCAGAGCAGTCT
S CGCGCCGAGGAAAAGTCAGTTAATAACATGTCACY
S ATGACGTGGCAGACGAAGTCAGTTAATAACATGTCACY
S CCCTGTGACATGTTATTAACTGACTTTTGACTGCTCTGAGTAGTGATCATCAGTAACAAGTGGAA
S CCCTGTGACATGTTATTAACTGACTTTCGACTGCTCTGAGTAGTGATCATCAGTAACAAGTGGAA
CAGACGTGAATATAGCCCAGTGGAGAGGAGTATCCCTGTGACATGTTATTAACTGACTTT[TC]GACTGCTCTGAGTAGTGATCATCAGTAACAAGTGGAAATGTATAGC
TGCTTTTTAGAAAT
A TCTTGCAAATTGAAGAAGCCGGATTTGCAACGACTT
A CGCGCCGAAGCAAGTCCCTCCTTCAACY
A ATGACGTGGCAGACGCAGTCTCCTCCTTCAY
A AAATGTTGAAGGAGGAGACTGTAGTCGTTGCAAATCCGGCTTCTTCAATTTGCAAGAGG
A AAATGTTGAAGGAGGAGACTGCAGTCGTTGCAAATCCGGCTTCTTCAATTTGCAAGAGG
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ACAGAGGTATCC
A CCCAGCCGACCTTCTCGGGCGT
A ATGACGTGGCAGACGTGCAGGCTGCTGY
A CGCGCCGAGGCTGCAGGCTGCTGY
A AAACCAGCAGCCTGCAGCCGCCCGAGAAGGTCGGCTGGGTC
A AAACCAGCAGCCTGCAGCGCCCGAGAAGGTCGGCTGGGTC
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S CGCGCCGAGGCTGTTATATTTCTAGATACTCCTTTAAGY
S ATGACGTGGCAGACGTGTTATATTTCTAGATACTCCTTTAAGY
S AACACTTAAAGGAGTATCTAGAAATATAACAGGGTGGAGAGAGATTTAACTAGTTTTGAATTGTCTTGCTCAGT
S AACACTTAAAGGAGTATCTAGAAATATAACACGGTGGAGAGAGATTTAACTAGTTTTGAATTGTCTTGCTCAGT
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GGAAATCCTCTATG
A CATCACTTCCCCGTCCTGGGCGTGT
A ATGACGTGGCAGACGACGTGGACAAAGTTCTCY
A CGCGCCGAGGCACGTGGACAAAGTTCTCY
A CATGGAGAACTTTGTCCACGTCCACGCGCAGGACGGGGAAGTGATGGA
A CATGGAGAACTTTGTCCACGTGCACGCGCAGGACGGGGAAGTGATGGA
AGTGACCTGACGGAGGTGCAGGATGGGTGGTGTACTCCATCACTTCCCCGTCCTGCGCGTG[GC]ACGTGCACAAAGTTCTCCATGTCTGCATTGGTCAGGACTTCATTGTC
TTTCTTCCAGGCA
A TGCAGCATGTCCCCAGTGGCTCATAGTCT
A ATGACGTGGCAGACGTAGTGACCCCAACCCY
A CGCGCCGAGGATAGTGACCCCAACCCY
A TTCTGGGTTGGGGTCACTACGACTATGAGCCACTGGGGACATGCTGCACC
A TTCTGGGTTGGGGTCACTATGACTATGAGCCACTGGGGACATGCTGCACC
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CAGCCACACGAAG
S CCGGAAGATGCAGTGTGACCAGAGCAGCT
S ATGACGTGGCAGACGGTGACTGCTGGTGTY
S CGCGCCGAGGAGTGACTGCTGGTGTY
S CCACACACCAGCAGTCACCGCTGCTCTGGTCACACTGCATCTTCCGGTA
S CCACACACCAGCAGTCACTGCTGCTCTGGTCACACTGCATCTTCCGGTA
TCCCATGCGTGGGCGTGCCAGTCAGCTCCAGGCCCAGCTGGCTCCACACACAGCAGTCAC[CT]GCTGCTCTGGTCACACTGCATCTTCCGGTAGTAGCCATCCTCGTCGCAG
CTCGGGATGAA
S GTCTGGCTGGGCTCTGGGGGTGA
S ATGACGTGGCAGACCATAGACTTCTGCTCATGCY
S CGCGCCGAGGTATAGACTTCTGCTCATGCAY
S CTCATGCATGAGCAGAAGTCTATGCACCCCAGAGCCCAGCCAGACCG
S CTCATGCATGAGCAGAAGTCTATACACCCCAGAGCCCAGCCAGACCG
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GATGCTGAGAGC
A GGAAAGGTGGGTTACACCAGCAAAACCAATCCAA
A ATGACGTGGCAGACCGAACCCTCTCCCCY
A CGCGCCGAGGTGAACCCTCTCCCCAY
A GCATTGGGGACAGAGGGTTCGTGGATTGGTTTTGCTGGTGTAACCCACCTTTCCCT
A GCATTGGGGACAGAGGGTTCATGGATTGGTTTTGCTGGTGTAACCCACCTTTCCCT
GACACCATCAATACATGCATCAAGAAGGGAAAGGTGGGTTACACCAGCAAAACCAATCCA[CT]GAACCCTCTCCCCAATGCACTTTTTTTTCTGAGTTTTAGAATTTCAT
CCTTAAGATTAGC
S GAGGGGCCGCAGCCCTGGCTCT
S ATGACGTGGCAGACCAGCAGCGTGACCCGY
S CGCGCCGAGGAAGCACGTGACCCGY
S ATTTCGGGTCACGTGCTGGAGCCAGGCCTCCGCCCCTCCC
S ATTTCGGGTCACGTGCTTGAGCCAGGCCTCCGCCCCTCCC
CAGGCTCGGAGCTGGCTGCCCGGTCAGGGAGGAGGGCGGGAGACATTTCGGGTCACGTGCT[GT]GAGCCAGGCCTCCGCCCCTCCCTGGGAGGTCCCGGCACCGCCCTCGCA
CCGCGGGACTCC
KIAA0275



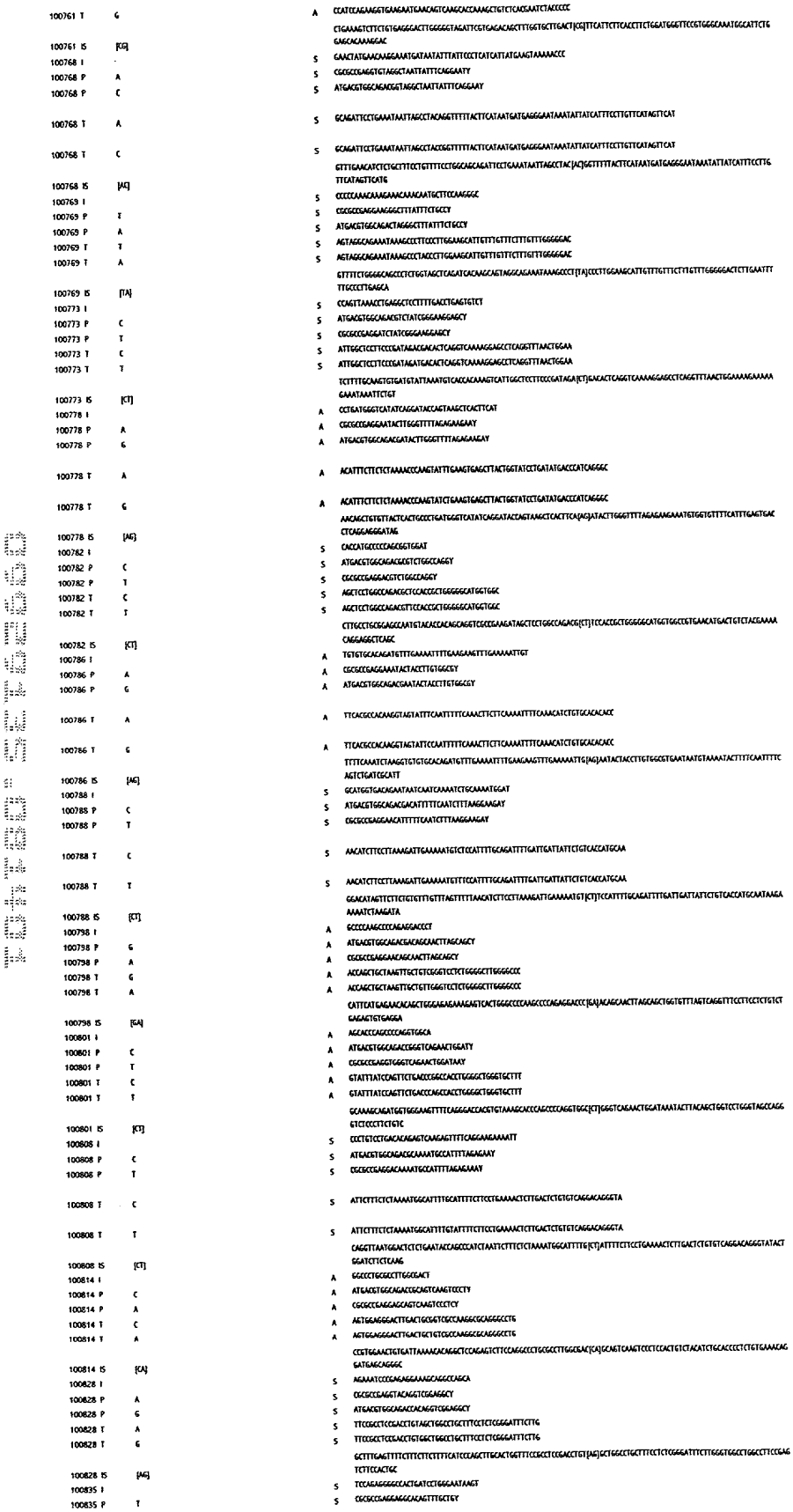

100761 T G
A CCATCCAGAAGGTGAAGAATGAACAGTCAAGCACCAAAGCTGTCTCACGAATCTACCCCC
CTGAAAGTCTTCTGTGAGGGACTTGGGGGTAGATTCGTGACACAGCTTTGGTGCTTGACT[CG]TTCATTCTTCACCTTCTGGATGGGTTCCGTGGGCAAATGGCATTCTG
GAGCACAAAGGAC
100761 IS [CG]
100768 I
S GAACTATGAACAAGGAAATGATAATATTTATTCCCTCATCATTATGAAGTAAAAACCC
100768 P A
S CGCGCCGAGGTGTAGGCTAATTATTTCAGGAATY
100768 P C
S ATGACGTGGCAGACGGTAGGCTAATTATTTCAGGAAY
100768 T A
S GCAGATTCCTGAAATAATTAGCCTACAGGTTTTTACTTCATAATGATGAGGGAATAAATATTATCATTTCCTTGTTCATAGTTCAT
100768 T C
S GCAGATTCCTGAAATAATTAGCCTACCGGTTTTTACTTCATAATGATGAGGGAATAAATATTATCATTTCCTTGTTCATAGTTCAT
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TTCATAGTTCATG
100768 IS [AC]
100769 I
S CCCCCAAACAAAGAAACAAACAATGCTTCCAAGGGC
100769 P T
S CGCGCCGAGGAAGGGCTTTATTTCTGCCY
100769 P A
S ATGACGTGGCAGACTAGGGCTTTATTTCTGCCY
100769 T T
S AGTAGGCAGAAATAAAGCCCTTCCCTTGGAAGCATTGTTTGTTTCTTTGTTTGGGGGAC
100769 T A
S AGTAGGCAGAAATAAAGCCCTACCCTTGGAAGCATTGTTTGTTTCTTTGTTTGGGGGAC
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TTGCCCTGAGCA
100769 IS [TA]
100773 I
S CCAGTTAAACCTGAGGCTCCTTTTGACCTGAGTGTCT
100773 P C
S ATGACGTGGCAGAGTCTATCGGGGAAGGAGCY
100773 P T
S CGCGCCGAGATCTATCGGGAAGGAGCY
100773 T C
S ATTGGCTCCTTCCCGATAGACGACACTCAGGTCAAAAGGAGCCTCAGGTTTAACTGGAA
100773 T T
S ATTGGCTCCTTCCCGATAGATGACACTCAGGTCAAAAGGAGCCTCAGGTTTAACTGGAA
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GAAATAAATTCTGT
100773 IS [CT]
100778 I
A CCTGATGGGTCATATCAGGATACCAGTAAGCTCACTTCAT
100778 P A
A CGCGCCGAGGAATACTTGGGTTTTAGAGAAGAAY
100778 P G
A ATGACGTGGCAGACGATACTTGGGTTTTAGAGAAGAY
100778 T A
A ACATTTCTTCTCTAAAACCCAAGTATTTGAAGTGAGCTTACTGGTATCCTGATATGACCCATCAGGGC
100778 T G
A ACATTTCTTCTCTAAAACCCAAGTATCTGAAGTGAGCTTACTGGTATCCTGATATGACCCATCAGGGC
AACAGCTGTGTTACTCACTGCCCTGATGGGTCATATCAGGATACCAGTAAGCTCACTTCA[AG]ATACTTGGGTTTTAGAGAAGAAATGTGGTGTTTTCATTTGAGTGAC
CTCAGGAGGGATAG
100778 IS [AG]
100782 I
S CACCATGCCCCCAGCGGTGGAT
100782 P C
S ATGACGTGGCAGACGGTCTGGCCAGGY
100782 P T
S CGCGCCGAGGACGTCTGGCCAGGY
100782 T C
S AGCTCCTGGCCAGACGCTCCACCGCTGGGGGCATGGTGGC
100782 T T
S AGCTCCTGGCCAGACGTTCCACCGCTGGGGGCATGGTGGC
CTTGCCTGCGCAGCCAATGTACACCACAGCAGGTCGCCGAAGATAGCTCCTGGCCAGACG[CT]TCCACCGCTGGGGGCATGGTGGCCGTGAACATGACTGTCTACGAAAA
CAGGAGGCTCAGC
100782 IS [CT]
100786 I
A TGTGTGCACAGATGTTTGAAAATTTTGAAGAAGTTTGAAAAATTGT
100786 P A
A CGCGCCGAGGAAATACTACCTTGTGGCGY
100786 P G
A ATGACGTGGCAGACGAATACTACCTTGTGGCGY
100786 T A
A TTCACGCCACAAGGTAGTATTTCAATTTTTCAAACTTCTTCAAAATTTTCAAACATCTGTGCACACACC
100786 T G
A TTCACGCCACAAGGTAGTATTCCAATTTTTCAAACTTCTTCAAAATTTTCAAACATCTGTGCACACACC
TTTTCAAATCTAAGGTGTGTGCACAGATGTTTGAAAATTTGAAGAAGTTTGAAAAATTG[AG]AATACTACCTTGTGGCGTGAATAATGTAAAATACTTTTCAATTTTC
AGTCTGATCGCATT
100786 IS [AG]
100788 I
S GCATGGTGACAGAATAATCAATCAAATCTGCAAAATGGAT
100788 P C
S ATGACGTGGCAGACGACATTTTTCAATCTTTAAGGAAGAY
100788 P T
S CGCGCCGAGGAACATTTTTCAATCTTTAAGGAAGAY
100788 T C
S AACATCTTCCTTAAAGATTGAAAAATGTCTCCATTTTGCAGATTTTGATTGATTATTCTGTCACCATGCAA
100788 T T
S AACATCTTCCTTAAAGATTGAAAAATGTTTCCATTTTGCAGATTTTGATTGATTATTCTGTCACCATGCAA
GGACATAGTTCTTCTGTGTTTGTTTAGTTTTTAACATCTTCCTTAAAGATTGAAAAATGT[CT]TCATTTTGCAGATTTTGATTGATTATTCTGTCACCATGCAATAAGA
AAAATCTAAGATA
100788 IS [CT]
100798 I
A GCCCCAAGCCCCAGAGGACCCT
100798 P G
A ATGACGTGGCAGACGACAGCAACTTAGCAGCY
100798 P A
A CGCGCCGAGGAACAGCAACTTAGCAGCY
100798 T G
A ACCAGCTGCTAAGTTGCTGTCGGGTCCTCTGGGGCTTGGGGCCC
100798 T A
A ACCAGCTGCTAAGTTGCTGTTGGGTCCTCTGGGGCTTGGGGCCC
CATTCATGAGAACACAGCTGGGAGAAGAAGAGTCACTGGGCCCCAAGCCCCAGAGGACCC[GA]ACAGCAACTTAGCAGCTGGTGTTTAGTCAGGTTTCCTTCCTCTGTCT
GAGAGTGTGAGGA
100798 IS [GA]
100801 I
A AGCACCCAGCCCCAGGTGGCA
100801 P C
A ATGACGTGGCAGACCGGGTCAGAACTGGATY
100801 P T
A CGCGCCGAGGTGGGTCAGAACTGGATAAY
100801 T C
A GTATTTATCCAGTTCTGACCCAGCCACCTGGGGCTGGGTGCTTT
100801 T T
A GTATTTATCCAGTTCTGACCCAGCCACCTGGGGCTGGGTGCTTT
GCAAAGCAGATGGTGGGAAGTTTCAGGGACCACGTGTAAAGCACCCAGCCCCAGGTGGC[CT]GGGTCAGAACTGGATAAATACTTACAGCTGGTCCTGGGTAGCCAGG
GTCTCCCTTCTGTC
100801 IS [CT]
100808 I
S CCCTGTCCTGACACAGAGTCAAGAGTTTTCAGGAAGAAAATT
100808 P C
S ATGACGTGGCAGACGCAAAATGCCATTTTAAGAGAAY
100808 P T
S CGCGCCGAGGACAAAATGCCATTTTAAGAGAAY
100808 T C
S ATTCTTTCTCTAAAATGGCATTTTGCATTTTCTTCCTGAAAACTCTTGACTCTGTGTCAGGACAGGGTA
100808 T T
S ATTCTTTCTCTAAAATGGCATTTTGTATTTTCTTCCTGAAAACTCTTGACTCTGTGTCAGGACAGGGTA
CAGGTTAATGGACTCTCTGAATACCAGCCCATCTAATTCTTTCTCTAAAATGGCATTTTG[CT]ATTTTCTTCCTGAAAACTCTTGACTCTGTGTCAGGACAGGGTATACT
GGATCTTCTCAAG
100808 IS [CT]
100814 I
A GGCCCTGCGCCTTGGCGACT
100814 P C
A ATGACGTGGCAGACCGCAGTCAAGTCCCTY
100814 P A
A CGCGCCGAGGAGCAGTCAAGTCCCTCY
100814 T C
A AGTGGAGGGACTTGACTGCGGTCGCCAAGGCGCAGGGCCTG
100814 T A
A AGTGGAGGGACTTGACTGCTGTCGCCAAGGCGCAGGGCCTG
CCGTGGAACTGTGATTAAAACACAGGCTCCAGAGTCTTCCAGGCCCTGCGCCTTGGCGAC[CA]GCAGTCAAGTCCCTCCACTGTCTACATCTGCACCCCTCTGTGAAACAG
GATGAGCAGGGC
100814 IS [CA]
100828 I
S AGAAATCCCGAGAGGAAAGCAGGCCAGCA
100828 P A
S CGCGCCGAGGTACAGGTCGGAGGCY
100828 P G
S ATGACGTGGCAGACCACAGGTCGGAGGCY
100828 T A
S TTCCGCCTCCGACCTGTAGCTGGCCTGCTTTCCTCTCGGGATTTCTTG
100828 T G
S TTCCGCCTCCGACCTGTGGCTGGCCTGCTTTCCTCTCGGGATTTCTTG
GCTTTGAGTTTTCTTTCTTTCTTTCATCCCAGCTTGCACTGGTTTCCGCCTCCGACCTGT[AG]GCTGGCCTGCTTTCCTCTCGGGATTTCTTGGGTGGCCTGGCCTTCCGAG
TCTTCCACTGC
100828 IS [AG]
100835 I
S TCCAGAGGGGCCACTGATCCTGGGAATAAGT
100835 P T
S CGCGCCGAGGAGGCACAGTTTGCTGY

FIGURE 129C

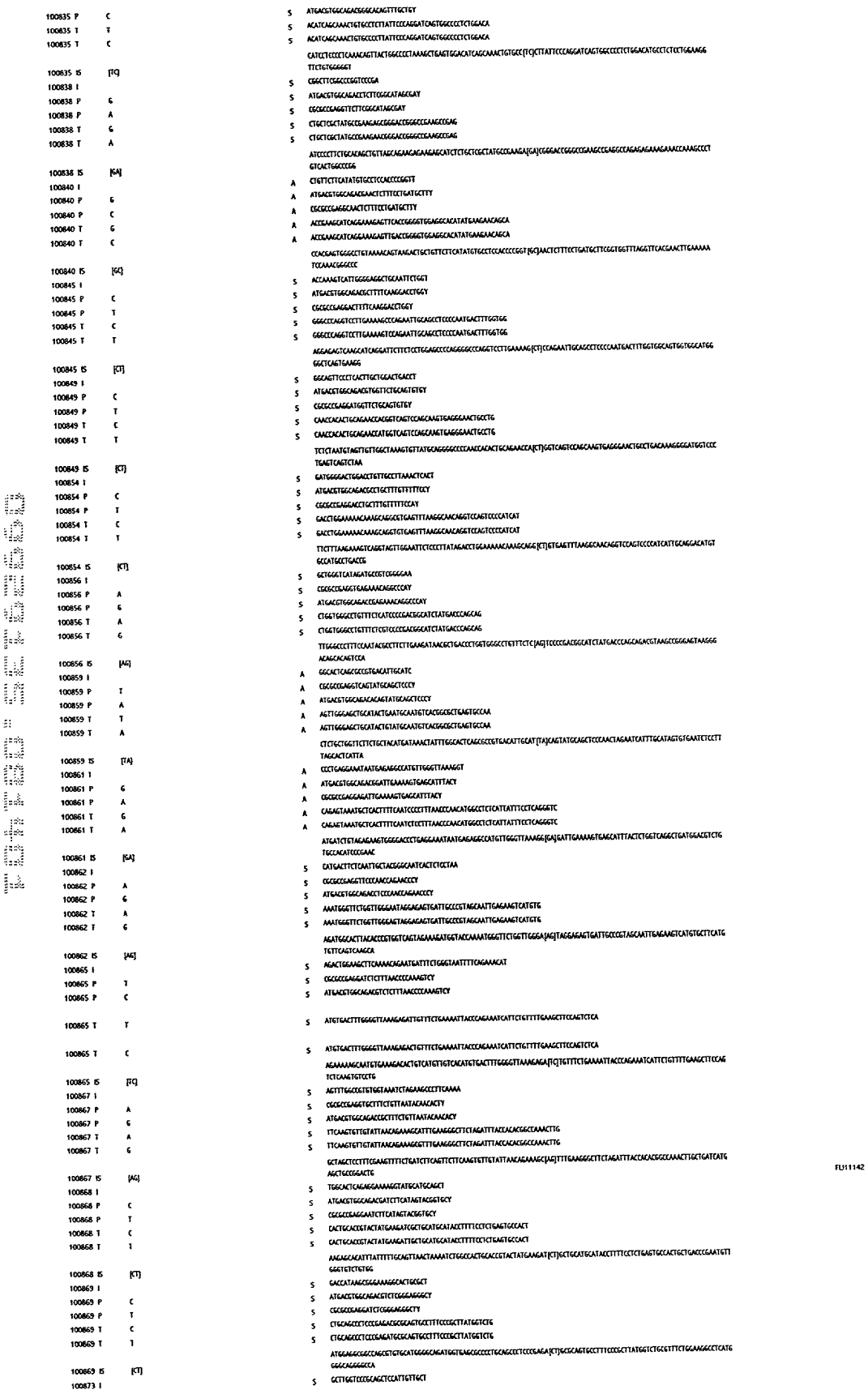


FIGURE 129C

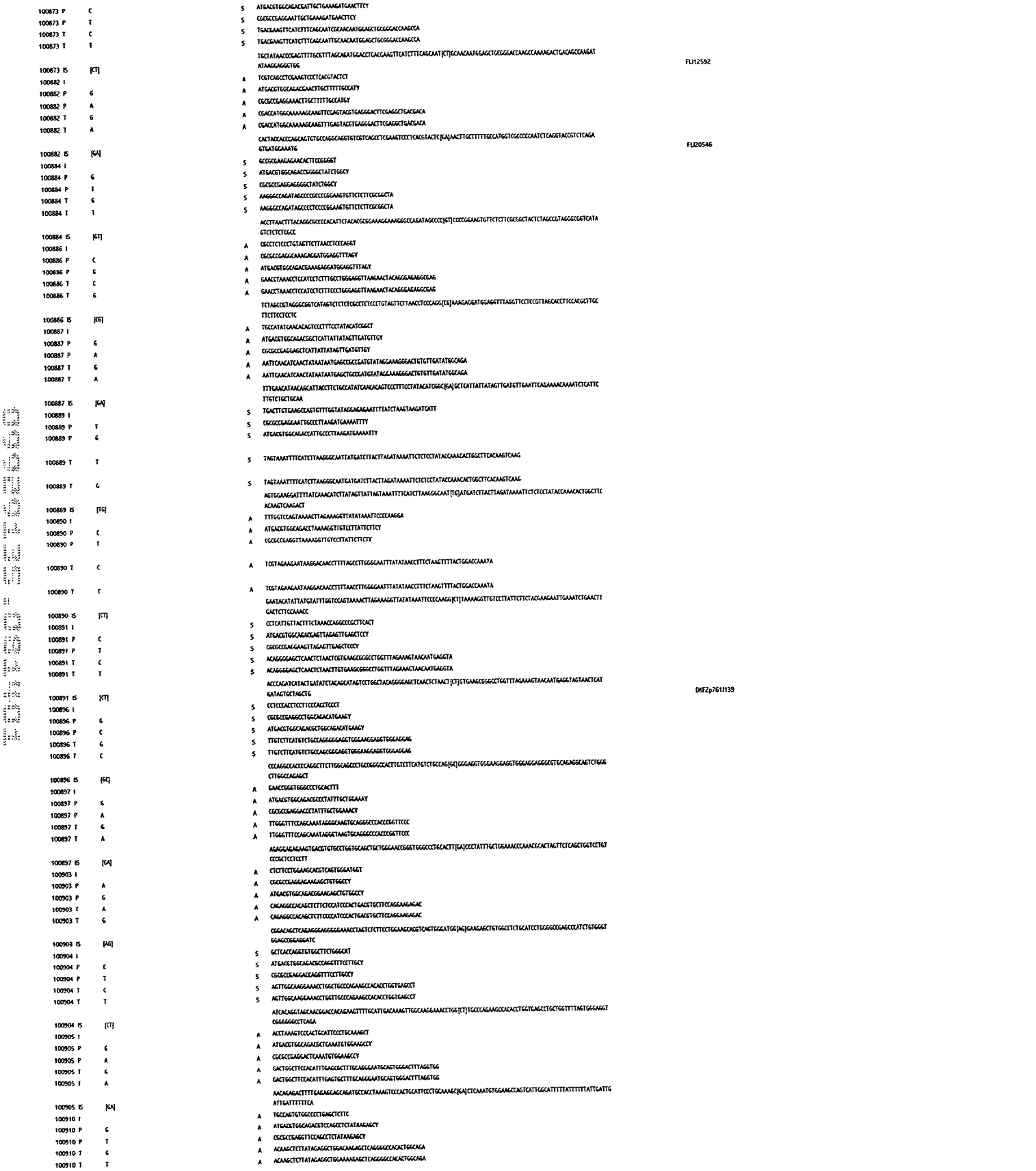


FIGURE 129C

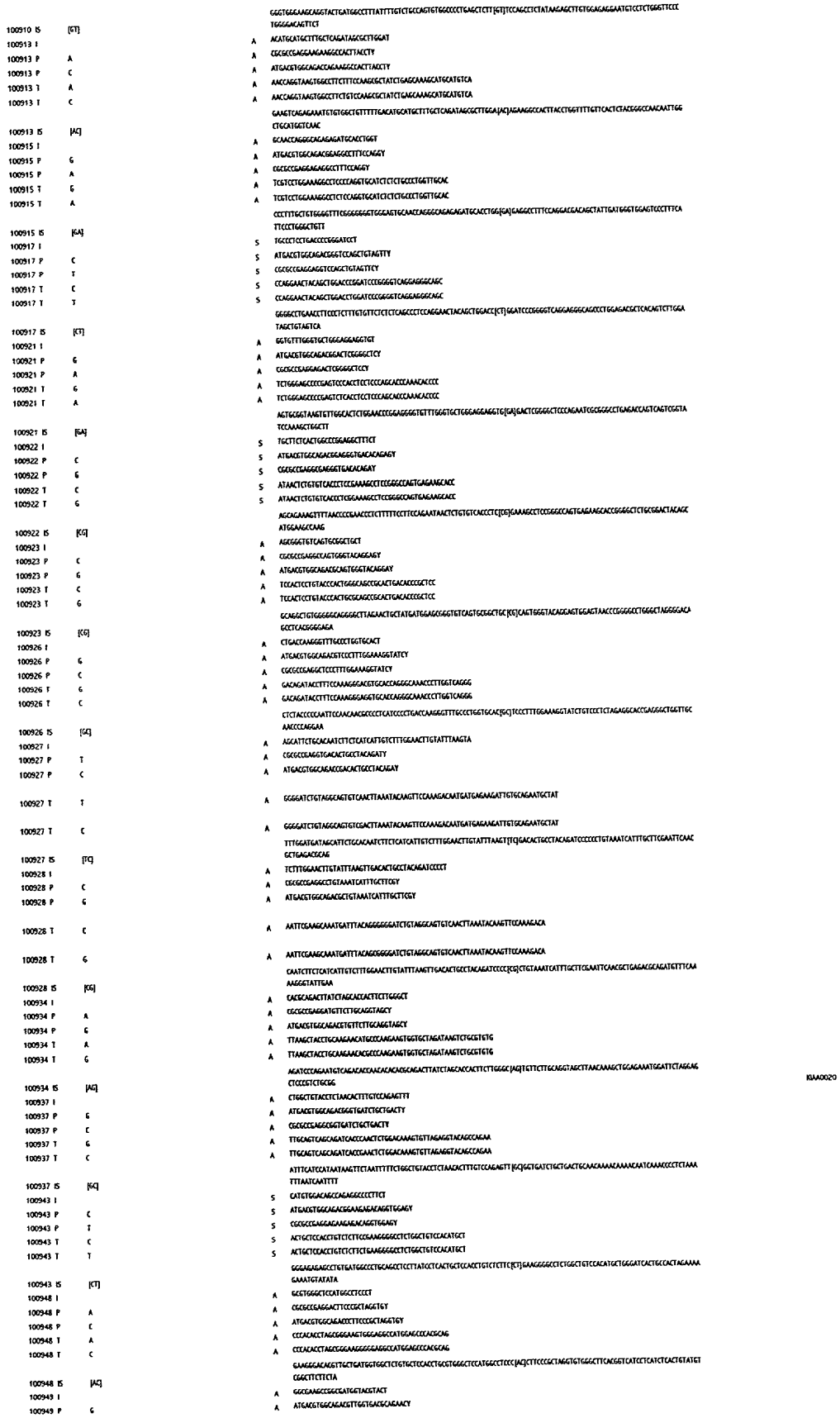
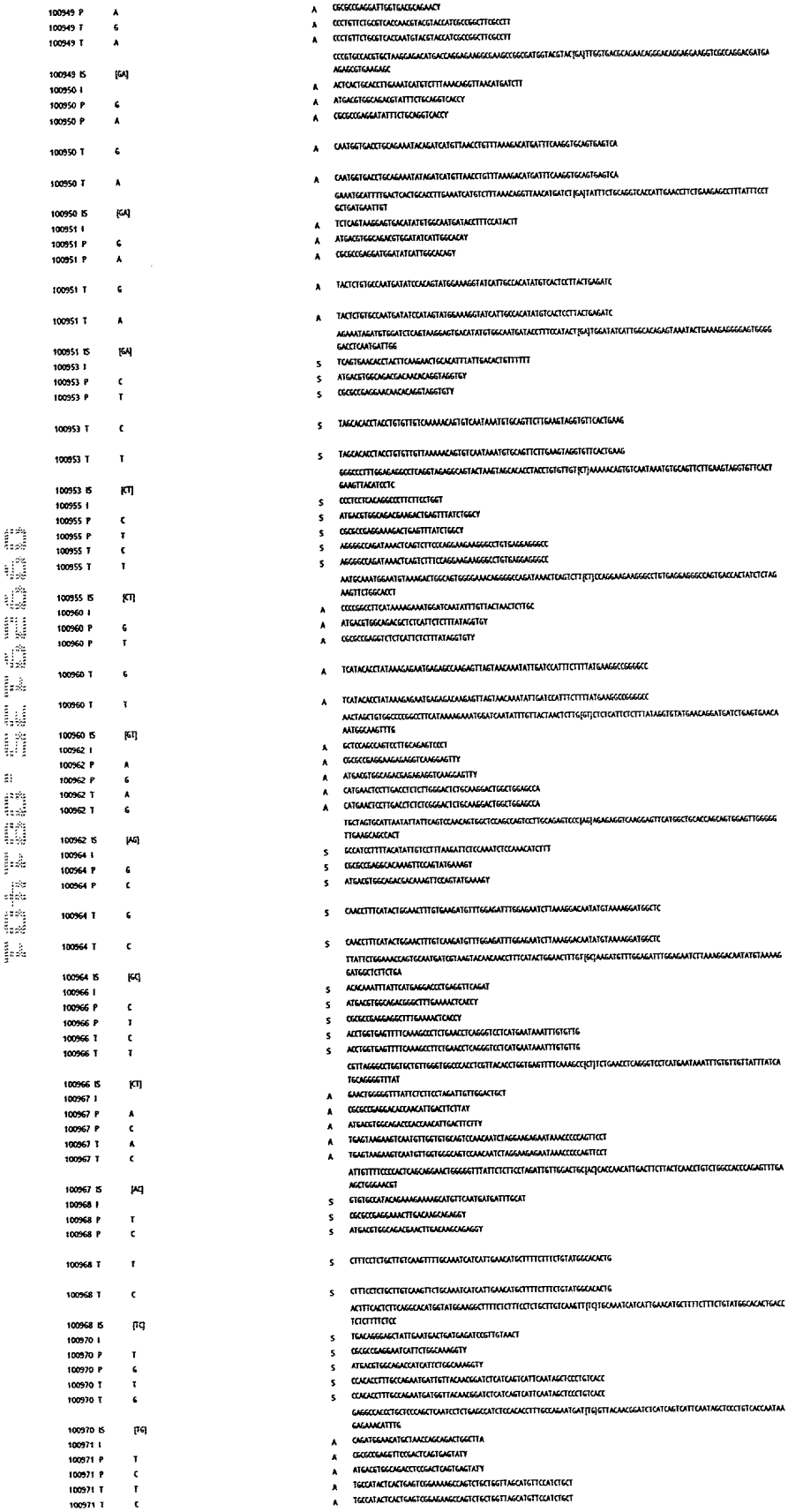


FIGURE 129C


100949 P A A CGCGCCGAGGATTGGTGACGCAGAACT
100949 T G A CCCTGTTCTGCGTCACCAACGTACGTACCATGGCCGGCTTCGCCCT
100949 T A A CCCTGTTCTGCGTCACCAATGTACGTACCATCGCCGGCTTCGCCTT
CCCGTGCCACGTGCTAAGCAGACATGACCAGGAGAAGGCGAAGCCGGCGATGGTACGT[GA]TTGGTGACGCAGAACAGGACAGCAGGAAGGTCGCCAGGACGATGA
AGAGCGTGAAGAGC
100949 IS [GA]
100950 I A ACTCACTGCACCTTGAAATCATGTCTTTAAACAGGTTAACATGATCTT
100950 P G A ATGACGTGGCAGACGTATTTCTGCAGGTCACCY
100950 P A A CGCGCCGAGGATATTTCTGCAGGTCACCY
100950 T G A CAATGGTGACCTGCAGAAATACAGATCATGTTAACCTGTTTAAAGACATGATTTCAAGGTGCAGTGAGTCA
100950 T A A CAATGGTGACCTGCAGAAATATAGATCATGTTAACCTGTTTAAAGACATGATTTCAAGGTGCAGTGAGTCA
GAAATGCATTTTGACTCACTGCACCTTGAAATCATGTCTTTAAACAGGTTAACATGATCT[GA]TATTTCTGCAGGTCACCATTGAACCTTCTGAAGAGCCTTTATTTCCT
GCTGATGAATTGT
100950 IS [GA]
100951 I A TCTCAGTAAGGAGTGACATATGTGGCAATGATACCTTTCCATACTT
100951 P G A ATGACGTGGCAGACGTGGATATCATTGGCACAY
100951 P A A CGCGCCGAGGATGGATATCATTGGCACAGY
100951 T G A TACTCTGTGCCAATGATATCCACAGTATGGAAAGGTATCATTGCCACATATGTCACTCCTTACTGAGATC
100951 T A A TACTCTGTGCCAATGATATCCATAGTATGGAAAGGTATCATTGCCACATATGTCACTCCTTACTGAGATC
AGAAATAGATGTGGATCTCAGTAAGGAGTGACATATGTGGCAATGATACCTTTCCATACT[GA]TGGATATCATTGGCACAGAGTAAATACTGAAAGAGGGGAGTGGGG
GACCTCAATGATTGG
100951 IS [GA]
100953 I S TCAGTGAACACCTACTTCAAGAACTGCACATTTATTGACACTGTTTTTT
100953 P C S ATGACGTGGCAGACGACAACAACAGGTAGGTGY
100953 P T S CGCGCCGAGGAACAACACAGGTAGGTGTY
100953 T C S TAGCACACCTACCTGTGTTGTCAAAAACAGTGTCAATAAATGTGCAGTTCTTGAAGTAGGTGTTCACTGAAG
100953 T T S TAGCACACCTACCTGTGTTGTTAAAAACAGTGTCAATAAATGTGCAGTTCTTGAAGTAGGTGTTCACTGAAG
GGGCCCTTTGCAGAGGCCTCAGGTAGAGGCAGTACTAAGTAGCACACCTACCTGTGTTGT[CT]AAAAACAGTGTCAATAAATGTGCAGTTCTTGAAGTAGGTGTTCACT
GAAGTTACATCCTC
100953 IS [CT]
100955 I S CCCTCCTCACAGGCCCTTCTTCCTGGT
100955 P C S ATGACGTGGCAGACGAAGACTGAGTTTATCTGGCY
100955 P T S CGCGCCGAGGAAAGACTGAGTTTATCTGGCY
100955 T C S AGGGGCCAGATAAACTCAGTCTTCCAGGAAGAAGGCCTGTGAGGAGGGCC
100955 T T S AGGGGCCAGATAAACTCAGTCTTCCAGGAAGAAGGCCTGTGAGGAGGGCC
AATGCAAATGGAATGTAAAGACTGGCAGTGGGGAAACAGGGGCCAGATAAACTCAGTCTT[CT]CCAGGAAGAAGGCCTGTGAGGAGGGCCAGTGACCACTATCTCTAG
AAGTTCTGGCAACT
100955 IS [CT]
100960 I A CCCCGGCCTTCATAAAAGAAATGGATCAATATTTGTTACTAACTCTTGC
100960 P G A ATGACGTGGCAGACGCTCTCATTCTCTTTATAGGTGY
100960 P T A CGCGCCGAGGTCTCTCATTCTCTTTATAGGTGTY
100960 T G A TCATACACCTATAAAGAGAATGAGAGCCAAGAGTTAGTAACAAATATTGATCCATTTCTTTTATGAAGGCCGGGGCC
100960 T T A TCATACACCTATAAAGAGAATGAGAGACAAGAGTTAGTAACAAATATTGATCCATTTCTTTTATGAAGGCCGGGGCC
AACTAGCTGTGGCCCCGGCCTTCATAAAAGAAATGGATCAATATTTGTTACTAACTCTTG[GT]CTCTCATTCTCTTTATAGGTGTATGAACAGGATGATCTGAGTGAACA
AATGGCAAGTTTG
100960 IS [GT]
100962 I A GCTCCAGCCAGTCCTTGCAGAGTCCCT
100962 P A A CGCGCCGAGGAAGAGAGGTCAAGGAGTTY
100962 P G A ATGACGTGGCAGACGAGAGAGGTCAAGGAGTTY
100962 T A A CATGAACTCCTTGACCTCTCTTGGGACTCTGCAAGGACTGGCTGGAGCCA
100962 T G A CATGAACTCCTTGACCTCTCTCGGGACTCTGCAAGGACTGGCTGGAGCCA
TGCTAGTGCATTAATATTATTCAGTCCAACAGTGGCTCCAGCCAGTCCTTGCAGAGTCCC[AG]AGAGAGGTCAAGGAGTTCATGGCTGCACCAGCAGTGGAGTTGGGGG
TTGAAGCAGCCACT
100962 IS [AG]
100964 I S GCCATCCTTTTACATATTGTCCTTTAAGATTCTCCAAATCTCCAAACATCTTT
100964 P G S CGCGCCGAGGCACAAAGTTCCAGTATGAAAGY
100964 P C S ATGACGTGGCAGACGACAAAGTTCCAGTATGAAAGY
100964 T G S CAACCTTTCATACTGCAACTTTGTGAAGATGTTTGGAGATTTGGAGAATCTTAAAGGACAATATGTAAAAGGATGGCTC
100964 T C S CAACCTTTCATACTGCAACTTTGTCAAGATGTTTGGAGATTTGGAGAATCTTAAAGGACAATATGTAAAAGGATGGCTC
TTATTCTGGAAACCAGTCCAATGATCGTAAGTACAACAACCTTTCATACTGGAACTTTGT[GC]AAGATGTTTGGAGATTTGGAGAATCTTAAAGGACAATATGTAAAAG
GATGGCTCTTCTGA
100964 IS [GC]
100966 I S ACACAAATTTATTCATGAGGACCCTGAGGTTCAGAT
100966 P C S ATGACGTGGCAGACGGGCTTTGAAAACTCACCY
100966 P T S CGCGCCGAGGAGGGCTTTGAAAACTCACCY
100966 T C S ACCTGGTGAGTTTTCAAAGCCTCTGAACCTCAGGGTCCTCATGAATAAATTTGTGTTG
100966 T T S ACCTGGTGAGTTTTCAAAGCCTCTGAACCTCAGGGTCCTCATGAATAAATTTGTGTTG
CGTTAGGGCCTGGTGCTGTTGGGTGGCCCACCTCGTTACACCTGGTGAGTTTTCAAAGCC[CT]TCTGAACCTCAGGGTCCTCATGAATAAATTTGTGTTGTTATTTATCA
TGCAGGGGTTTAT
100966 IS [CT]
100967 I A GAACTGGGGGTTTATTCTCTTCCTAGATTGTTGGACTGCT
100967 P A A CGCGCCGAGGACACCAACATTGACTTCTTAY
100967 P C A ATGACGTGGCAGACCCACCAACATTGACTTCTTY
100967 T A A TGAGTAAGAAGTCAATGTTGGTGTGCAGTCCAACAATCTAGGAAGAGAATAAACCCCCAGTTCCT
100967 T C A TGAGTAAGAAGTCAATGTTGGTGGGCAGTCCAACAATCTAGGAAGAGAATAAACCCCCAGTTCCT
ATTGTTTTCCCCACTCAGCAGGAACTGGGGGTTTATTCTCTTCCTAGATTGTTGGACTGC[AC]CACCAACATTGACTTCTTACTCAACCTGTCTGGCCACCCAGAGTTTGA
AGCTGGGAACGT
100967 IS [AC]
100968 I S GTGTGCCATACAGAAAGAAAAGCATGTTCAATGATGATTTGCAT
100968 P T S CGCGCCGAGGAAACTTGACAAGCAGAGGY
100968 P C S ATGACGTGGCAGACGAACTTGACAAGCAGAGGY
100968 T T S CTTTCCTCTGCTTGTCAAGTTTTGCAAATCATCATTGAACATGCTTTTCTTTCTGTATGGCACACTG
100968 T C S CTTTCCTCTGCTTGTCAAGTTCTGCAAATCATCATTGAACATGCTTTTCTTTCTGTATGGCACACTG
ACTTTCACTCTTCAGGCACATGGTATGGAAGGCTTTTCTCTTTCCTCTGCTTGTCAAGTT[TC]TGCAAATCATCATTGAACATGCTTTTCTTTCTGTATGGCACACTGACC
TCTCTTTTCTCC
100968 IS [TC]
100970 I S TGACAGGGAGCTATTCAATGACTGATGAGATCCGTTGTAACT
100970 P T S CGCGCCGAGGAATCATTCTGGCAAAGGTY
100970 P G S ATGACGTGGCAGACCATCATTCTGGCAAAGGTY
100970 T T S CCACACCTTTGCCAGAATGATTGTTACAACGGATCTCATCAGTCATTCAATAGCTCCCTGTCACC
100970 T G S CCACACCTTTGCCAGAATGATGGTTACAACGGATCTCATCAGTCATTCAATAGCTCCCTGTCACC
GAGGCCACCCTGCTCCCAGCTCAATCCTCTGAGCCATCTCCACACCTTTGCCAGAATGAT[TG]GTTACAACGGATCTCATCAGTCATTCAATAGCTCCCTGTCACCAATAA
GAGAACATTTG
100970 IS [TG]
100971 I A CAGATGGAACATGCTAACCAGCAGACTGGCTTA
100971 P T A CGCGCCGAGGTTCCGACTCAGTGAGTATY
100971 P C A ATGACGTGGCAGACCTCCGACTCAGTGAGTATY
100971 T T A TGCCATACTCACTGAGTCGGAAAAGCCAGTCTGCTGGTTAGCATGTTCCATCTGCT
100971 T C A TGCCATACTCACTGAGTCGGAGAAGCCAGTCTGCTGGTTAGCATGTTCCATCTGCT





ARRB2

FIGURE 129C

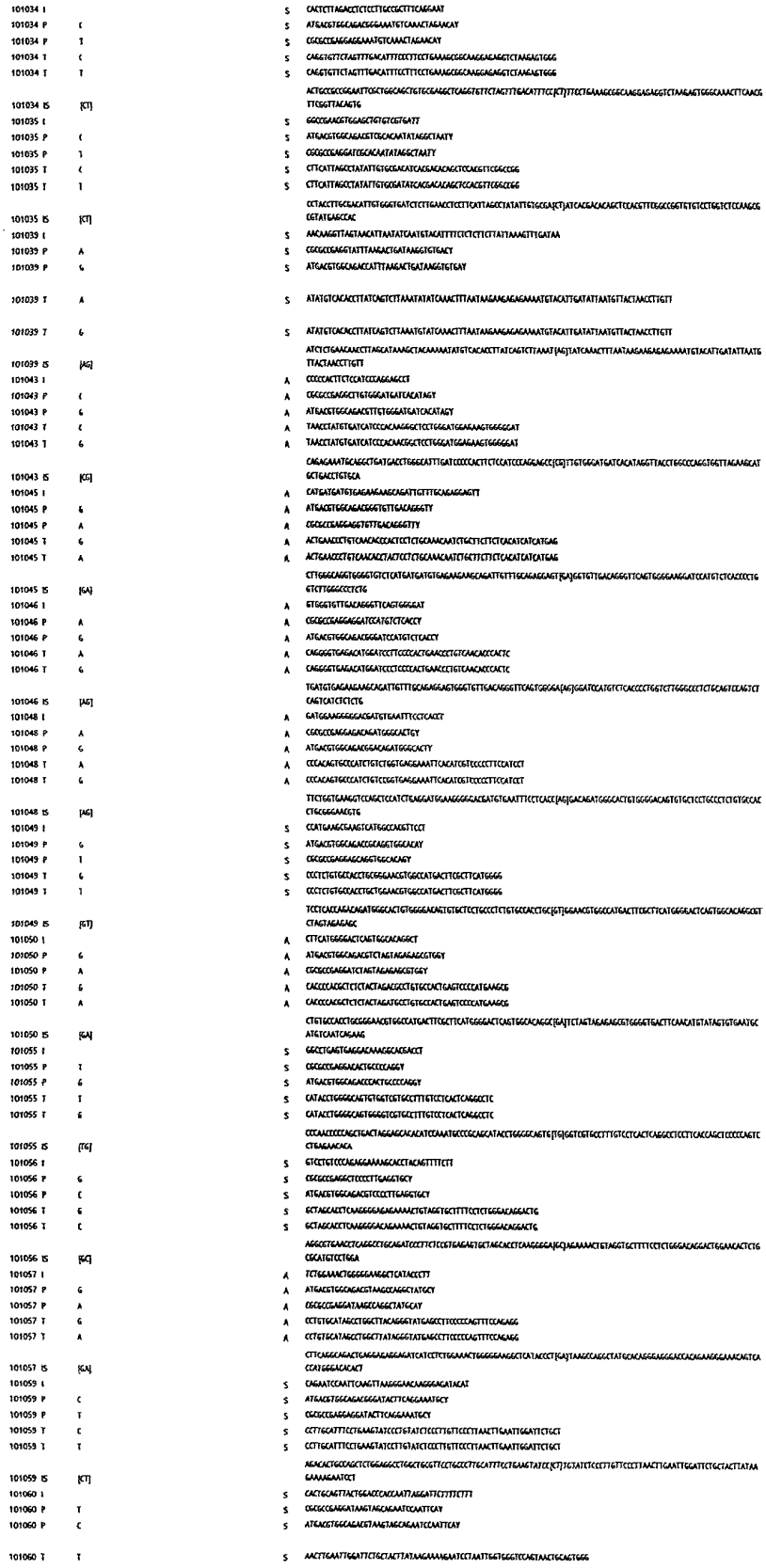


FIGURE 129C

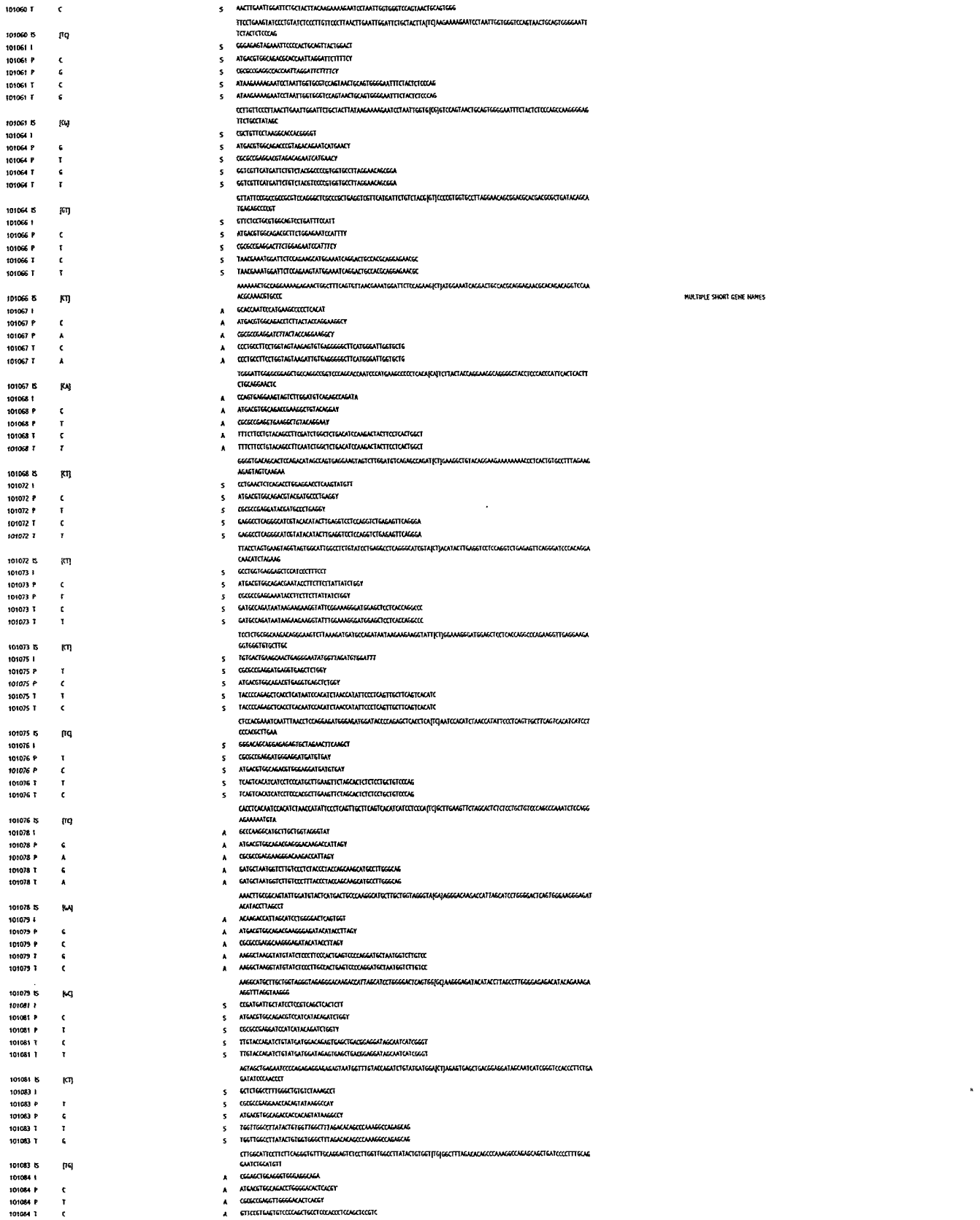


FIGURE 129C

101084	T	T	
101084	IS	[CT]	
101085	I		
101085	P	G	
101085	P	A	
101085	T	G	
101085	T	A	
101085	IS	[GA]	
101087	I		
101087	P	A	
101087	P	G	
101087	T	A	
101087	T	G	
101087	IS	[AG]	
101088	I		
101088	P	G	
101088	P	A	
101088	T	G	
101088	T	A	
101088	IS	[GA]	
101089	I		
101089	P	C	
101089	P	T	
101089	T	C	
101089	T	T	
101089	IS	[CT]	
101090	I		
101090	P	C	
101090	P	T	
101090	T	C	
101090	T	T	
101090	IS	[CT]	
101092	I		
101092	P	A	
101092	P	C	
101092	T	A	
101092	T	C	
101092	IS	[AC]	
101095	I		
101095	P	C	
101095	P	G	
101095	T	C	
101095	T	G	
101095	IS	[CG]	
101098	I		
101098	P	G	
101098	P	A	
101098	T	G	
101098	T	A	
101098	IS	[GA]	
101101	I		
101101	P	A	
101101	P	G	
101101	T	A	
101101	T	G	
101101	IS	[AG]	
101103	I		
101103	P	C	
101103	P	T	
101103	T	C	
101103	T	T	
101103	IS	[CT]	
101104	I		
101104	P	G	
101104	P	C	
101104	T	G	
101104	T	C	
101104	IS	[GC]	
101105	I		
101105	P	G	
101105	P	A	
101105	T	G	
101105	T	A	
101105	IS	[GA]	
101106	I		
101106	P	G	
101106	P	A	
101106	T	G	
101106	T	A	

```
A GTTCCGTGAGTGTCCCCAACTGCCTCCCACCCTCCAGCTCCGTC
  TGTCATTCCCCCCAGCTCCTGGGGGCACGCGTTTGGGACGGAGCTGGAGGGTGGGAGGGAGCAG[CT]TGGGGACACTCACGGAACATGGTCTCTAGCCGCACCAGGCAGCAAAC
  GAAATTGTCAAAG
S GCAGGGGCTGCGCCTCACTGAA
S ATGACGTGGCAGACCCTTCACTCACTCCCTY
S CGCGCCGAGGTCTTCACTCACTCTCCTGY
S GGTCCAGCAGAAGTGAGTGAAGATCAGTGAGGCGCAGCCCCTGCCC
S GGTCCAGCAGAAGTGAGTGAAGATCAGTGAGGCGCAGCCCCTGCCC
  ATGATGAGCTCGTACAGCTTCTTGTTGAGCTTGAAGCCTGGTCCAGGAGAGTGAGTGAAG[GA]TCAGTGAGGCGCAGCCCCTGCCCAACAGCATGGGGGAGGGGTTGGG
  TCCCCAGGAGGGGG
A CTGTTACCATGTCACCACTAGCACCCCAGGT
A CGCGCCGAGGAACAAGGGCCTGGGY
A ATGACGTGGCAGACGACAAGGGCCTGGGY
A ATGCCCCAGCCCCTGTCCTGGGGTGCTAGTGGTGACATGGTAACAGCC
A ATGCCCCAGCCCCTGTCCCTGGGGTGCTAGTGGTGACATGGTAACAGCC
  CTAGTAACCGTGGGGAAAAGGACAAGATGGCTGTTACCATGTCACCACTAGCACCCCAGG[AG]ACAAGGGCCTGGGGCATAGCAGCAGTGGGGCTACCTGTCCTGGGCCC
  CACAGGTGCCGTC
A CCTTCCCACCTGCCCGGCCCT
A ATGACGTGGCAGACGCACCTGCATGACTGY
A CGCGCCGAGGAGACCTGCATGACTGAY
A CACCTCAGTCATGCAGGTGCGGGCCGGGCAGGTGGGCAAGGGC
A CACCTCAGTCATGCAGGTGTGGGCCGGGCAGGTGGGAAGGGC
  GGTGGCGGCAGAGGGTGAGGGCCAGGCTGAGTCACCCGGCCTTCCCACCTGCCCGCCCC[GA]CACCTGCATGACTGAGGTGAGTGGGGACAACCTACCAGGTAATTCCG
  GATGCGGTTCCAC
A CAGTCAGCCCACAGCCGGGCTTGA
A ATGACGTGGCAGACCCTTATTCTCTGAGCTGGY
A CGCGCCGAGGTCTTATTCTCTGAGCTGGGY
A GCAGCCCAGCTCAGAGAATAAGCAAGCCCGGCTGTGGGCTGACTGTA
A GCAGCCCAGCTCAGAGAATAAGCAAGCCCGGCTGTGGGCTGACTGTA
  TTGGGGCTGGGTGAGGAGAAGCAGCAAAAGCCATGTACAGTCAGCCCACAGCCGGGCTTG[CT]CTTATTCTCTGAGCTGGGCTGCAGTGGAGTGGGCTGGGGAGGGGTC
  AGAAATAGCACCAG
S GTGCCAGTAAAATATGAATTGGTTGGATTTGACTTCTCAT
S ATGACGTGGCAGACGTGATACACAATGATTCTCTACCY
S CGCGCCGAGGATGATACACAATGATTCTCTACCY
S TCCAGGTAGAGAATCATTGTGTATCACTGAGAAGTCAAATCCAACCAATTCATATTTACTGGCACAT
S TCCAGGTAGAGAATCATTGTGTATCATTGAGAAGTCAAATCCAACCAATTCATATTTACTGGCACAT
  TCAGAAGTTTCTATGGCATCCTCCTGTGGTGTTAGTCCAGGTAGAGAATCATTGTGTATCA[CT]TGAGAAGTCAAATCCAACCAATTCATATTTACTGGCACATCTATAAG
  AAAGTAATTGAAG
S GGCAGGCTCCATGATAAGATTTGTATTTCCAGGTGTTACTTATTTTC
S CGCGCCGAGGTTCCCCCTATTATTTTCATTTTCY
S ATGACGTGGCAGACGTCCCCCTATTATTTTCATTTTCY
S TCCTGAAAATGAAAATAATAGGGGGAAAAAAATAAGTAACACCTGGAAATACAAATCCTATCATGGAGCCTGCCAA
S TCCTGAAAATGAAAATAATAGGGGGACAAAATAAGTAACACCTGGAAATACAAATCCTATCATGGAGCCTGCCAA
  GACTGTTCCTGAGCAGATCTAGTCAAAAGTCCTTCCTGAAAATGAAAATAATAGGGGGA[AC]AAAATAAGTAACACCTGGAAATACAAATCCTATCATGGAGCCTGCC
  AAGCTTCTCGTTAA
S TGGTGGCCTGCACTGGGGCTGT
S ATGACGTGGCAGACGAGCAGGAGCTGGCY
S CGCGCCGAGGCAGCAGGAGCTGGCY
S AGAGGCCACGTCCTGCTGCCAGCCCCAGTGCAGGCCACCACC
S AGAGGCCACGTCCTGCTGCAGCCCCAGTGCAGGCCACCACC
  AAGGTGACACTGCTTATCGGGGCCACGATGCAGGTGAGAGCCAACAGGCCACGTCCTGCT[CG]CAGCCCCAGTGCAGGCCACCACCTGGTTCCAGGCACGCCGCCTCTGGC
  CCTGCGTGCAGT
A GCCCACGCTGACTGTGCGGACAACT
A ATGACGTGGCAGACGCAGTGTTGTTGGTGY
A CGCGCCGAGGACAGGTGTTGTTGGTGY
A GCCCCACCAACAACACCTGCGTTGTCCGCACAGTCAGCGTGGGCCT
A GCCCCACCAACAACACCTGTGTTGTCCGCACAGTCAGCGTGGGCCT
  CGGGTGCTCTGCGTCCCACACGGAGCAGTGTCAGGCCCACGCTGACTGTGCGGACAAC[GA]CAGGTGTTGTTGGTGGGGCCCTTCCCGATCTGCACAAAGTCGTCTCTA
  GGCACAGGAGAG
S GCTGCCTGCTCACTGGGCCCAGA
S CGCGCCGAGGTTATGGCCCATATGGCY
S ATGACGTGGCAGACCTATGGCCCATATGGCY
S AATGGCCATATGGGCCATAACTGGGCCCAGTGAGCAGGCAGCCT
S AATGGCCATATGGGCCATAGCTGGGCCCAGTGAGCAGGCAGCCT
  GGGAACCTACAGCCCAGAGCTCCCCTTGAGCCACTGTTTGGAATGGCCATATGGGCCATA[AG]CTGGGCCCAGTGAGCAGGCAGCCTGCTGCTCAGACTGCACCCAACACC
  TGGAGTCACTGG
S AGACAGATGTGCCTCTTTGGGAAATCAATGGCTTAAT
S ATGACGTGGCAGACGGTAGTAAATTCAAAGAAAAGCTY
S CGCGCCGAGGAGTAGTAAATTCAAAGAAAAGCTGY
S TTAGCAGCTTTTCTTTGAATTTACTACCTTAAGCCATTGATTTCCCAAAGAGGCACATCTGTGTCTCC
S TTAGCAGCTTTTCTTTGAATTTACTACTTTAAGCCATTGATTTCCCAAAGAGGCACATCTGTGTCTCC
  CTTTAAAAGCCAACACTATTCACATTGCTCTTCTTAGCAGCTTTTCTTTGAATTTACTAC[CT]TTAAGCCATTGATTTCCCAAAGAGGCACATCTGTGTCTCCCAGCCCTG
  GATCCTGCTGTC
S CCCTGGGCTTACTGTTGGCTCCTCCACT
S CGCGCCGAGGCTGCTGTTCCCCCCY
S ATGACGTGGCAGACGTGCTGTTCCCCCCY
S CCACGGGGGGGAACAGCAGTGGAGAGCCAACAGTAAGCCCAGGGTG
S CCACGGGGGGAACAGCAGTGGAGGAGCCAACAGTAAGCCCAGGGTG
  AGAGAGACAGAGAGAGGGCTGAGTCAGTATTCCTCACACCCAGGCCCACGGGGGGAACAGCA[GC]GTGGAGGAGCCAACAGTAAGCCCAGGGTGCAGAAGGGTGCCCCCAG
  CTGGCACAGATGCC
A CCTCAGGATTCCTGACTTCCCACAACCTATGAGCT
A ATGACGTGGCAGACGCCACATGTCCTCTGAY
A CGCGCCGAGGACCACATGTCCTCTGACY
A AGGGGTCAGAGGACATGTGGCGCTCATAGGTTGTGGGAAGTCAGGAATCCTGAGGGG
A AGGGGTCAGAGGACATGTGGTGCTCATAGGTTGTGGGAAGTCAGGAATCCTGAGGGG
  TCCTCCAGCACCCTTTGACCTTGACCCCTCAGGATTCCTGACTTCCCACAACCTATGAGC[GA]CCACATGTCCTCTGACCCCTCAGGACCCCTGACCCCAGAGCTCACCCTCC
  AGCCCAACAT
S CCGCTCTCCTCCCCTGGTTCCGAATAA
S ATGACGTGGCAGACCCTCTTGAACCGGCCY
S CGCGCCGAGGTCTCTTGAACCGGCCY
S CGCGGGCCGGTTCAAGAGGTATTCGGAACCAGGGGAGGAGAGAGCGGCG
S CGCGGGCCGGTTCAAGAGATATTCGGAACCAGGGGAGGAGAGCGGCG
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FIGURE 129C

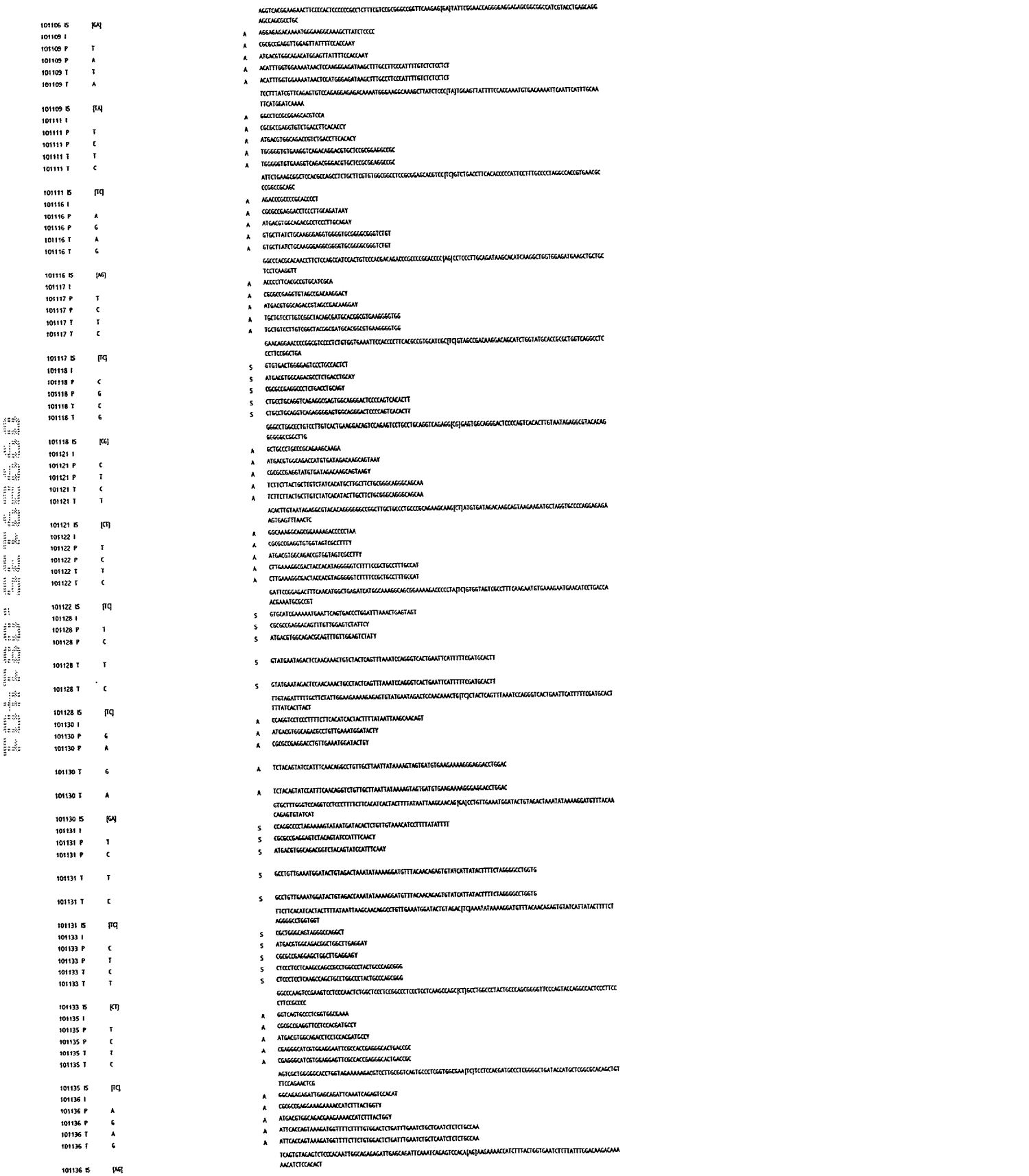


FIGURE 129C

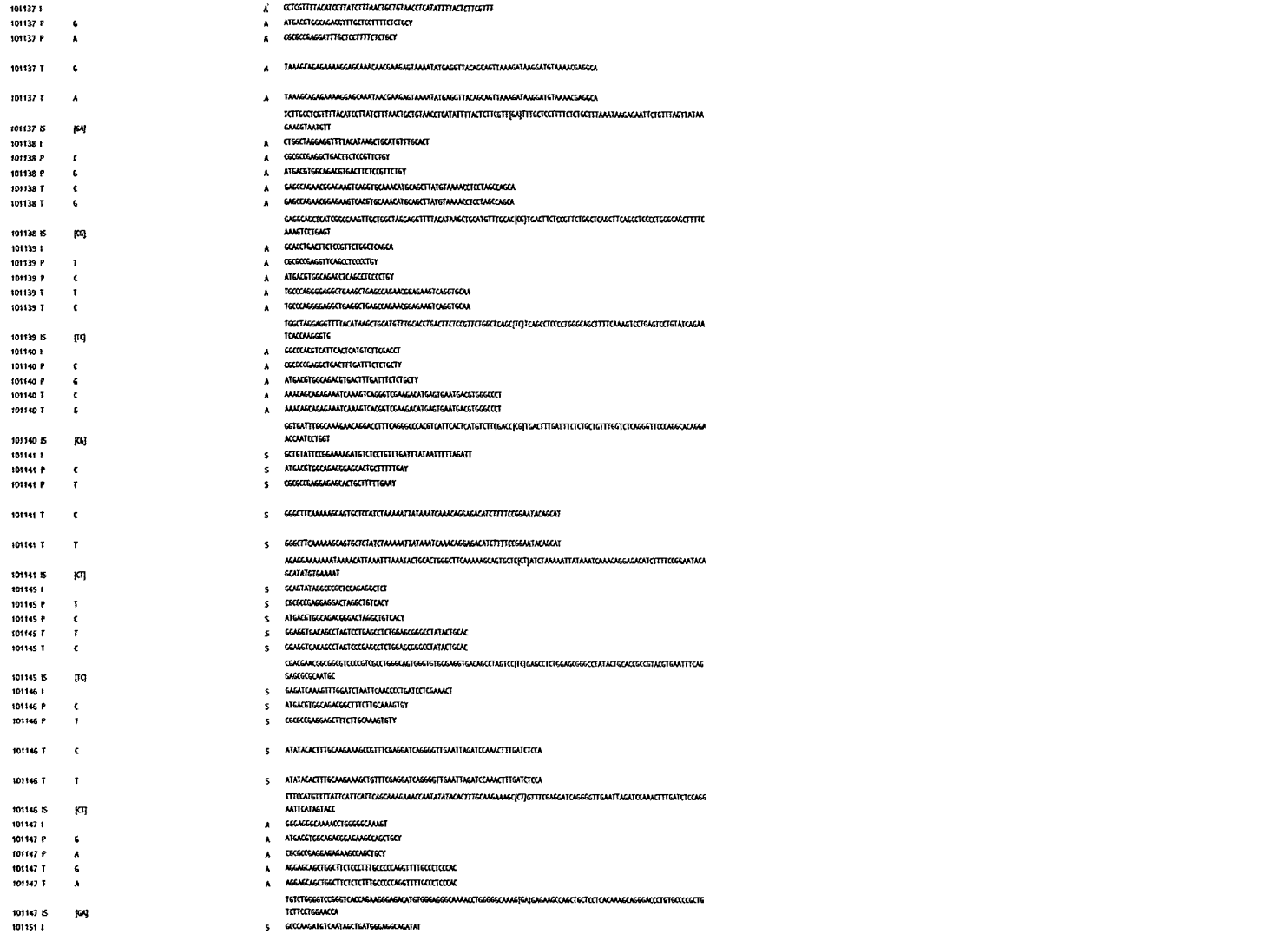
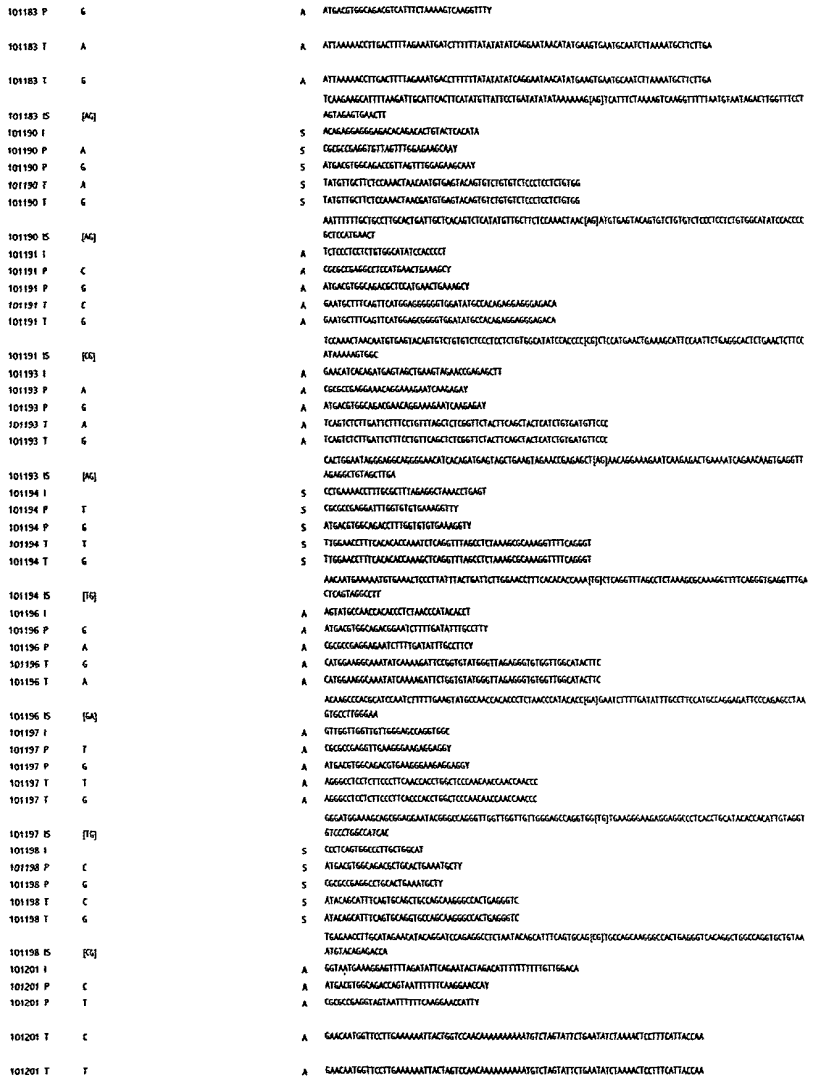
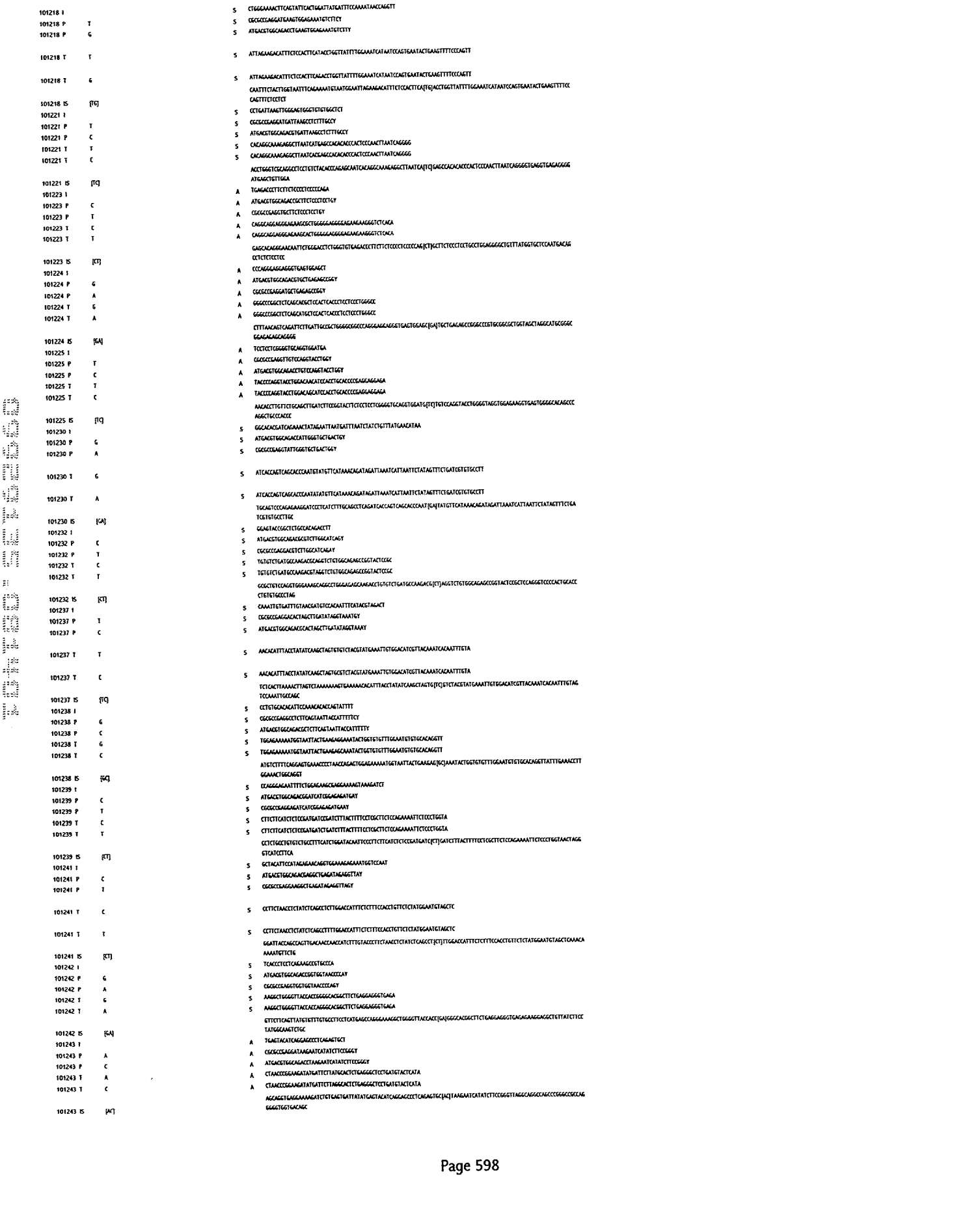


FIGURE 129C


101183 P G A ATGACGTGGCAGACGTCATTTCTAAAAGTCAAGGTTTY
101183 T A A ATTAAAAACCCTGACTTTTAGAAATGATCTTTTTTATATATATCAGGAATAACATATGAAGTGAATGCAATCTTAAAATGCTTCTTGA
101183 T G A ATTAAAAACCCTGACTTTTAGAAATGACCTTTTTTATATATATCAGGAATAACATATGAAGTGAATGCAATCTTAAAATGCTTCTTGA
101183 IS [AG] TCAAGAAGCATTTTAAGATTGCATTCACTTCATATGTTATTCCTGATATATATATAAAAAAG[AG]TCATTTCTAAAAGTCAAGGTTTTTAATGTAATAGACTTGGTTTCCTAGTAGAGTGAACTT
101190 I S ACAGAGGAGGGAGACAGACACTGTACTCACATA
101190 P A S CGCGCCCAGGTGTTAGTTTGGAGAAGCAAY
101190 P G S ATGACGTGGCAGACGTTAGTTTGGAGAAGCAAY
101190 T A S TATGTTGCTTCTCCAAACTAACAATGTGAGTACAGTGTCTGTGTCTCCCCTCCTCTCTGTGG
101190 T G S TATGTTGCTTCTCCAAACTAACGATGTGAGTACAGTGTCTGTGTCTCCCCTCCTCTGTGG
101190 IS [AG] AATTTTTTGCTGCCTTGCACTGATTGCTCACAGTCTCATATGTTGCTTCTCCAAACTAAC[AG]ATGTGAGTACAGTGTCTGTGTCTCCCTCCCTCCTGTGGCATATCCACCCCGCTCCATGAACT
101191 I A TCTCCCTCCTCTGTGGCATATCCACCCCT
101191 P C A CGCGCCSAGGCCTCCATGAACTGAAAGCY
101191 P G A ATGACGTGGCAGACGCTCCATGAACTGAAAGCY
101191 T C A GAATGCTTTCAGTTCATGGAGGGGGGTGGATATGCCACAGAGGAGGGAGACA
101191 T G A GAATGCTTTCAGTTCATGGAGGGGGGTGGATATGCCACAGAGGAGGGAGACA
101191 IS [CG] TCCAAACTAACAATGTGAGTACAGTGTCTGTGTCTCCCTCCTCTGTGGCATATCCACCCC[CG]CTCCATGAACTGAAAGCATTCCAATTCTCAGGCACTCTGAACTCTTCCATAAAAAGTGGC
101193 I A GAACATCACAGATGAGTAGCTGAAGTAGAACCGAGAGCTT
101193 P A A CGCGCCSAGGAAACAGGAAAGAATCAAGAGAY
101193 P G A ATGACGTGGCAGACGAACAGGAAAGAATCAAGAGAY
101193 T A A TCAGTCTCTTGATTCTTTCCTGTTTAGCTCTCGGTTCTACTTCAGCTACTCATCTGTGATGTTCCC
101193 T G A TCAGTCTCTTGATTCTTTCCTGTTCAGCTCTCGGTTCTACTTCAGCTACTCATCTGTGATGTTCCC
101193 IS [AG] CACTGGAATAGGGAGGCAGGGGAACATCACAGATGAGTAGCTGAAGTAGAACCGAGAGCT[AG]AACAGGAAAGAATCAAGAGACTGAAAATCAGAACAAGTGAGGTTAGAGGCTGTAGCTTGA
101194 I S CCTGAAAACCTTTGCGCTTTAGAGGCTAAACCTGAGT
101194 P T S CGCGCCSAGGATTTGGTGTGTGAAAGGTTY
101194 P G S ATGACGTGGCAGACCTTTGGTGTGTGAAAGGTY
101194 T T S TTGGAACCTTTCACACACCAAATCTCAGGTTTAGCCTCTAAAGCGCAAAGGTTTTCAGGGT
101194 T G S TTGGAACCTTTCACACACCAAAGTCAGGTTTAGCCTCTAAAGCGCAAAGGTTTTCAGGGT
101194 IS [TG] AACAATGAAAAATGTGAAACTCCCTTATTTACTGATTCTTGGAACCTTTCACACACCAAA[TG]CTCAGGTTTAGCCTCTAAAGCGCAAAGGTTTTCAGGGTGAGGTTTGACTCAGTAGGCCTT
101196 I A AGTATGCCAACCACACCCTCTAACCCATCACCT
101196 P G A ATGACGTGGCAGACGGAATCTTTTGATATTTGCCTTY
101196 P A A CGCGCCCAGGAGAATCTTTTGATATTTGCCTTCY
101196 T G A CATGGAAGGCAAATATCAAAAGATTCCGGTGTATGGGTTAGAGGGTGTGGTTGGCATACTTC
101196 T A A CATGGAAGGCAAATATCAAAAGATTCTGGTGTATGGGTTAGAGGGTGTGGTTGGCATACTTC
101196 IS [GA] ACAAGCCCACGCATCCAATCTTTTGAAGTATGCCAACCACACCCTCTAACCCATACACCT[GA]GAATCTTTTGATATTTGCCTTCCATGCCAGGAGATTCCCAGAGCCTAAGTGCCTTGGGAA
101197 I A GTTGGTTGGTTGTTGGGAGCCAGGTGGC
101197 P T A CGCGCCCAGGTTGAAGGAAGAGAGGY
101197 P G A ATGACGTGCCAGACGTGAAGGAAGAGAGGY
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101197 IS [TG] GGGATGGAAAGCAGCGGAGGAATACGGGCCAGGGTTGGTTGGTTGTTGGGAGCCAGGTGG[TG]TGAAGGGAAGAGGAGGCCCTCACCTGCATACACCACATTGTAGGTGTCCCTGGCCATCAC
101198 I S CCCTCAGTGGCCCTTGCTGGCAT
101198 P C S ATGACGTGGCAGACGCTGCACTGAAATGCTY
101198 P G S CGCGCCGAGGCCTGCACTGAAATGCTY
101198 T C S ATACAGCATTTCAGTGCAGCTGCCAGCAAGGGCCACTGAGGGTC
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101198 IS [CG] TGAGAACCTTGCATAGAAACATACAGGATCCAGAGGCCTCTAATACAGCATTTCAGTGCAG[CG]TGCCAGCAAGGGCCACTGAGGGTCACAGCCTGGCCAGGTGCTGTAAATGTACAGAGACA
101201 I A GGTAATGAAAGAAGTTTTAGATATTCAGAATACTAGACATTTTTTTTTTGTTGGACA
101201 P C A ATGACGTGGCAGACCAGTAATTTTTTCAAGGAACCAY
101201 P T A CGCGCCGAGGTAGTAATTTTTTCAAGGAACCATTY
101201 T C A GAACAATGGTTCCTTGAAAAAATTACTGGTCCAACAAAAAAAAAATGTCTAGTATTCTGAATATCTAAAACTCCTTTCATTACCAA
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101201 IS [CT] ATTTGGTAATGAAAGAAGTTTTAGATATTCAGAATACTAGACATTTTTTTTTTGTTGGAC[CT]AGTAATTTTTCAAGGAACCATTGTTCTTTATAGTATGAAATAGATTGGGAGACCATAAT
101202 I A AGGAACCATTGTTCTTTATAGTATGAAATAGATTGGGAGACCATAATTT
101202 P A A CGCGCCGAGGATGTGTTGGGAGGCAY
101202 P G A ATGACGTGGCAGACGTGTGTTGGGAGGCAY
101202 T A A AGATTGCCTCCCAACACATAATTATGGTCTCCCAATCTATTTCATACTATAAAGAACAATGGTTCCTTG
101202 T G A AGATTGCCTCCCAACACACAATTATGGTCTCCCAATCTATTTCATACTATAAAGAACAATGGTTCCTTG
101202 IS [AG] GTAATTTTTTCAAGGAACCATTGTTCTTTATAGTATGAAATAGATTGGGAGACCATAATT[AG]TGTGTTGGGAGGCAATCTGTTTTTGTCTCTATTTTTCTTATTATGTATTTTTATTAGTAAA
101210 I A TGCATGTCATAAAAGCTAAGGAATTTAGGTATCACTCTAATTAGATTGAT
101210 P G A ATGACGTGGCAGACGGAATCAGATATCACTCTAACAAY
101210 P C A CGCGCCGAGGCGAATCAGATATCACTCTAACAAY
101210 T G A AAGCTTGTTAGAGTGATATCTGATTCCTCAATCTAATTAGAGTGATACCTAAATTCCTTAGCTTTTATGACATGCAAA
101210 T C A AAGCTTGTTAGAGTGATATCTGATTCGTCAATCTAATTAGAGTGATACCTAAATTCCTTAGCTTTTATGACATGCAAA
101210 IS [GC] TACTCAGTTTTTGCATGTCATAAAAGCTAAGGAATTTAGGTATCACTCTAATTAGATTGA[GC]GAATCAGATATCACTCTAACAAGCTTTTTAATTTGTTGTTGAAGTGTTCGTCACAAAAGG
101212 I A CCCTCGCTGGCATTTTCTTTCAGCTGCTCTCT
101212 P G A ATGACGTGGCAGACGTATTCCTGCATTGCTGAY
101212 P A A CGCGCCGAGGATATTCCTGCATTGCTGACY
101212 T G A GTGTGTCAGCAATGCAGGAATACGAAGAGACAGCTGAAAGAAAATGCCAGCGAGGGTA
101212 T A A GTGTGTCAGCAATGCAGGAATATGAAGAGACAGCTGAAAGAAAATGCCAGCGAGGGTA
101212 IS [GA] GAAGACTCACTAAAGCCAACTTCGCTTACCCTCGCTGGCATTTTCTTTCAGCTGCTCTCT[RA]TATTCCTGCATTGCTGACACACAGCTGTTGTGGATCAGTTCACCCAGGCGCTTCAGATCT
101213 I A CAGCACAGTATCAGAATAATAACCACAAATTTTACTGATGATCTACTT
101213 P A A CGCGCCGAGGAAAGGCTTAAGTGAATTTCTAAAY
101213 P G A ATGAGGTGGCAGACGAAGGCTTTAAGTGAATTTCTAAAY
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101213 T G A GTAATTTAGAAATTCACTTAAAGCCTTCAGTAGATCATCAGTAAAATTTGTGGTTATTATTCTGATACTGTGCTGTG
101213 IS [AG] AATATTGAGAACACAGCACAGTATCAGAATAATAACCACAAATTTTACTGATGATCTACT[AG]AAGGCTTAAGTGAATTTCTAAATTACATTTATAACACAGATTCTAACCCAGCTCTTTTT



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S CGCGCCSAGGATGAAGTGGAGAAATGTCTTCY

S ATGACGTGGCAGACCTGAAGTGGAGAAATGTCTTY

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S CGCGCCGAGGAGATCATGGAGAGATGAAY

S CTTCTTCATCTCTCCGATGATCGTCATCTTTACTTTTCCTCGCTTCTCCAGAAAATTCTCCCTGGTA

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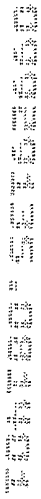
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101267	IS	[AC]		GTTAGGAAAGTAAGTA
101270	I		A	GCCCTGGACAGTATGTCAGGAAAGCTGTCCTT
101270	P	G	A	ATGACGTGGCAGACGCAAGAAAGAGGCCAY
101270	P	A	A	CGCGCCGAGGAGAGAAGAAGCAGGCCAGY
101270	T	G	A	GTGTCTGGCCTCCTTTCTTCAGGACAGCTTTCCTGACATACTGTCCAGGGCCA
101270	T	A	A	GTGTCTGGCCTCCTTTCTTCTAGGACAGCTTTCCTGACATACTGTCCAGGGCCA
101270	IS	[GA]		CTGCTGATGTGCACAGGAAGGAGTTACTGGCCCTGGACAGTATGTCAGGAAAGCTGTCCT[GA]GAAGAAAGGAGGCCAGACACAGGCCACAGAGGCCTGGTGCAAGCTT GGAAATTGGGTGCC
101272	I		S	GCTCATAAAGTGGCCACACTTGCAAGTGATCCCT
101272	P	T	S	CGCGCCGAGGATGTCTTTTCCCCCTTAGAY
101272	P	C	S	ATGACGTGGCAGACGTGTCTTTTCCCCCTTAGY
101272	T	T	S	AGTGTCTAAGGGGGAAAAGACATGGGATCACTTGCAAGTGTGGCCACTTTATGAGCCT
101272	T	C	S	AGTGTCTAAGGGGGAAAAGACACGGGATCACTTGCAAGTGTGGCCACTTTATGAGCCT
101272	IS	[TC]		TAAAGCTGAATATTCCCCTGAAACTTTCACTCCTGCATAGTGTCTAAGGGGGAAAAGACA[TC]GGGATCACTTGCAAGTGTGGCCACTTTATGAGCCTACCTACAGGGGA ATGGAAAGTCTAA
101274	I		A	GGGGTACCCGGGCCAGAGGTATGTT
101274	P	G	A	ATGACGTGGCAGACGAATATCTTCAAAGGCCTGGY
101274	P	A	A	CGCGCCGAGGAAATATCTTCAAAGGCCTGGY
101274	T	G	A	AGAACCAGGCCTTTGAAGATATTCACATACCTCTGGCCCGGGTACCCCTC
101274	T	A	A	AGAACCAGGCCTTTGAAGATATTTACATACCTCTGGCCCGGGTACCCCTC
101274	IS	[GA]		GGCCCTAGGCTCTTGCTAAATAACAAATACTCTGAGGGGTACCCGGGCCAGAGGTATGT[GA]AATATCTTCAAAGGCCTGGTTCTGACACAGTCATAGGCAGTACTCA GTCAGCCTAGGACC
101276	I		A	CCCACCTTGGGAGGAGGTCAGCCTA
101276	P	C	A	ATGACGTGGCAGACCGCCTCCAACTGGAY
101276	P	T	A	CGCGCCGAGGTGCCTCCAACTGGAAAY
101276	T	C	A	AGGCTTTCCAGTTGGAGGCAGGCTGACCTCCTCCCAAGGTGGGCC
101276	T	T	A	AGGCTTTCCAGTTGGAGGCAAGGCTGACCTCCTCCCAAGGTGGGCC
101276	IS	[CT]		TGGCCAGACTCTGCTGCTGCAGCTGCAATGATGGGCCACCTTGGGAAGAGGTCAGCCT[CT]GCCTCCAACTGGAAAGCCTCCCCCTGCCTCAGACCAGCCAGCCGCCCCC TTGGGTGAGCC
101277	I		A	GGGGCTGGCTCAGCCTCTCTACCCT
101277	P	G	A	ATGACGTGGCAGACGATGTGCAGCAAGCATCAY
101277	P	C	A	CGCGCCGAGGCATGTGCAGCAAGCATCAY
101277	T	G	A	GTCATGATGCTTTGCTCACATGGGGTAGAGAGGCTGAGCCAGCCCCAC
101277	T	C	A	GTCATGATGCTTTGCTCACATGGGGTAGAGAGGCTGAGCCAGCCCCAC
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101278	I		A	GACACCGCCTCGGGTGATTCGGGAGAAA
101278	P	C	A	ATGACGTGGCAGACCGAGTTTCCTTTGAGGACY
101278	P	T	A	CGCGCCGAGGTGAGTTTTCCTTTGAGGACY
101278	T	C	A	CGTTGTCCTCAAAGCAAAACTCGTTCTCCCGAATCACCGCAGCGGCTCTCCT
101278	T	T	A	CGTTGTCCTCAAAGCAAAACTCATTCTCCCGAATCACCGACGGCGCTCTCCT
101278	IS	[CT]		CGACTTCTACGTGGTCACCTACACGGGGCACAAGGAGAGCCGCTGGGTGATTCGGGAGAA[CT]GAGTTTTCCTTTGAGGACAACGCCATTCGGAGTGGGAAGAAGGTAT TCCGTATGAAGGTG
101280	I		S	CCCCCAGCCAGCTCTGAGCCCTT
101280	P	C	S	ATGACGTGGCAGACGGTGCAGTGGGAGGY
101280	P	T	S	CGCGCCGAGGAGTGCAGTGGGAGGY
101280	T	C	S	GTGCCCTCCCACTGCACCAGGGCTCAGAGCTCGCTGGGGGCT
101280	T	T	S	GTGCCCTCCCACTGCACTAGGGCTCAGAGCTCGCTGGGGGCT
101280	IS	[CT]		TTTTTTGCTCATCTGGGGTTTGAAAATTGACCTCCTCGTTCCAGTGCCCTCCCACTGCAC[CT]AGGGCTCAGAGCTCGCTGGGGGCTAAGTGGGCTTGGGCAGGCCTCCTC TGGCTCCCCTGA
101282	I		S	CTGAGACTATGAAACATCTTTGTTTCTTTCTGCCATCAGGCAAAAT
101282	P	T	S	CGCGCCGAGGAGGCCTTTCTACAAAGAAGGY
101282	P	G	S	ATGACGTGGCAGACCGGCTTTCTACAAAGAAGGY
101282	T	T	S	AAGCCCTTCTTTGTAGAAAGCCTTTTTGGCTGATGGCAGAAAGAAACAAAGATGTTTCATAGTCTCAGAT
101282	T	G	S	AAGCCCTTCTTTGTAGAAAGCCGTTTTGCCTGATGGCAGAAAGAAACAAAGATGTTTCATAGTCTCAGAT
101282	IS	[TG]		AGTTTAAGAATCACCAACAAGATAGCCACCAAACTTCTAAGCCCTTCTTTGTAGAAAGCC[TG]TTTTGCCTGATGGCAGAAAGAAACAAAGATGTTTCATAGTCTCAGAT CAAACCCAGAAGG
101284	I		S	AGCCTTTTAGTCTGAATGCCCGTAAACTGAGAACTAGTCTTTTT
101284	P	T	S	CGCGCCGAGGAGGATCCTAAGTAAAGGACTY
101284	P	C	S	ATGACGTGGCAGACGGGATCCTAAGTAAAGGACY
101284	T	T	S	GTTAAGTCCTTTACTTAGGATGCTAAAAGACTAGTTCTCAGTTTACAGGGCATTCAGACTAAAAGGCTTA
101284	T	C	S	GTTAAGTCCTTTACTTAGGATGCCAAAAGACTAGTTCTCAGTTTACAGGGCATTCAGACTAAAAGGCTTA
101284	IS	[TC]		AGGGCTTTAAGCTTTTTGTTTCCCATATTTATTATCGGTTAAGTCCTTTACTTAGGATGC[TC]AAAAGACTAGTTCTCAGTTTACAGGGCATTCAGACTAAAAGGCTTAAT TTTCAAACAAAGC
101285	I		S	GATTGCCATTATGAGCAGATTTTTGTTTGTTTGTTTCAAAATAAATTTATTGAT
101285	P	T	S	CGCGCCGAGGATTTTACTTCTCTCCTAAAGGTAATY
101285	P	C	S	ATGACGTGGCAGACGTTTTACTTCTCTCCTAAAGGTAY
101285	T	T	S	AAATATTACCTTTAGGAGAGAAGTAAAATTCAATAAATTTATTTTGAAACAAACAAACAAAAATCTGCTCATAATGGCAATCCT
101285	T	C	S	AAATATTACCTTTAGGAGAGAAGTAAAACTCAATAAATTTATTTTGAAACAAACAAACAAAAATCTGCTCATAATGGCAATCCT
101285	IS	[TC]		ACTGCCAGAACGTTAACAACCTTAAAATCTGTAAATATTACCTTTAGGAGCAGAAGTAAAA[TC]TCAATAAATTTATTTTGAAACAAACAAACAAAAATCTGCTCATAA TGGCAATCCTTAAA
101289	I		S	CAGACCCTGGTAATGTGCAGGGAGGCGTCA
101289	P	A	S	CGCGCCGAGGTGGATCGGAGTCTCGAY
101289	P	G	S	ATGACGTGGCAGACGGGATCGGAGTCTCGY
101289	T	A	S	CAGGTCGAGACTCCGATCCAGACGCTCCCTGCACATTACCAGGGTCTGTC
101289	T	G	S	CAGGTCGAGACTCCGATCCGGACGCTCCCTGCACATTACCAGGGTCTGTC
101289	IS	[AG]		CCTAAAGAAGAGAACTGTCCTTCCCTGGACAAACCACCCACCAGGTCGAGACTCCGATCC[AG]GAGCGCCCTGCACATTACCAGGGTCTGTCACACACCCGCTTTGCTTCTC AGTTCTGTGTG
101291	I		A	GACTGCCAATCTAGAATGGCAGTACAGAAGCTACTCTCCC
101291	P	T	A	CGCGCCGAGGTTGGTAGATCCTCACAGAAY
101291	P	A	A	ATGACGTGGCAGACATGGTAGATCCTCACAGAAY
101291	T	T	A	TGAGTTCTGTGAGGATCTACCAGGAGAGAGTAGCTCCTGTACTCCCATTCTAGATTGGCAGTCAT
101291	T	A	A	TGAGTTCTGTGAGGATCTACCATGGAGAGTAGCTCCTGTACTCCCATTCTAGATTGGCAGTCAT
101291	IS	[TA]		CTGGCTAAGAGTTGCAGGAAGATGACTGCCAATCTAGAATGGCAGTACAGAAGCTACTCTCC[TA]TGGTAGATCCTCACAGAACTCAGCAACTCAGAAGCATCAGATGGGA TAAAAAAGAGATCC
101294	I		S	AAAGACACTGAATGAGTTGACTTGTTCTTCAAGCACACCTTCT
101294	P	T	S	CGCGCCGAGGATTCATCAGTTCAATACATACCGT
101294	P	C	S	ATGACGTGGCAGACGTTCATCAGTTCAATACATACCY
101294	T	T	S	GACTCGGTATGTATTGAACTGATGAATGAAGGTGTGCTTGAAGAACAAGTCAACTCATTCAGTGTCTTTGT
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FIGURE 129C

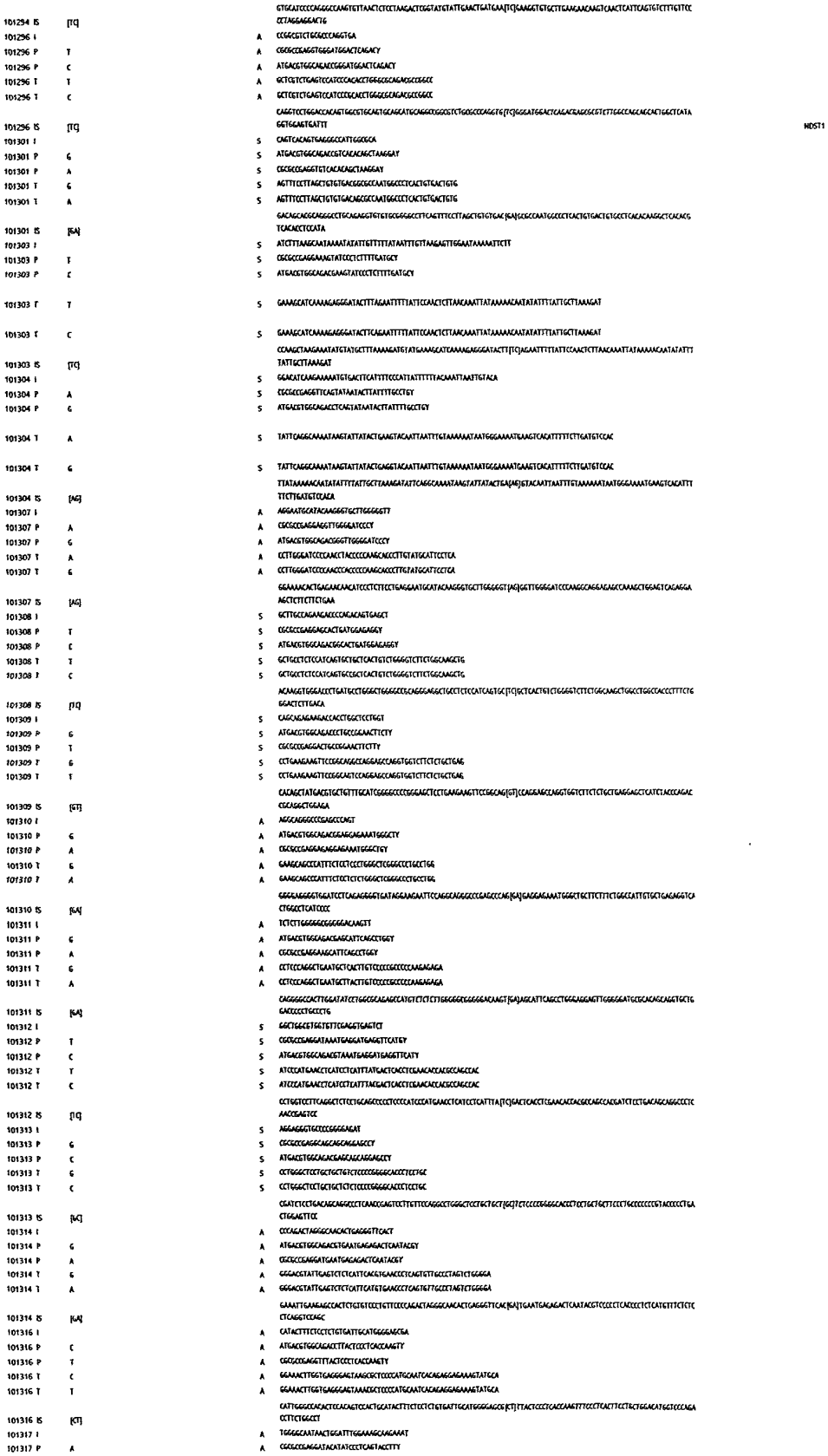

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FIGURE 129C

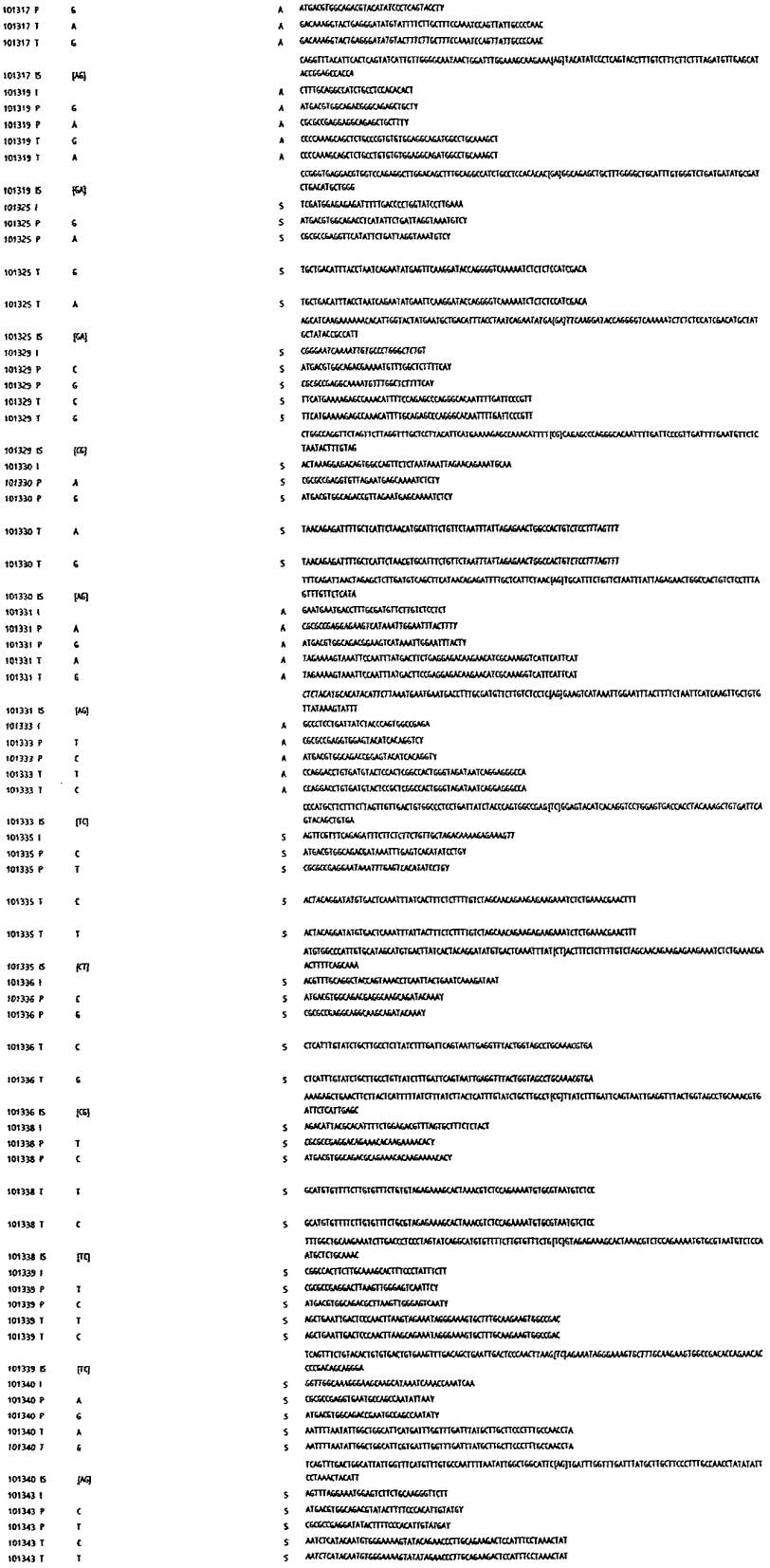
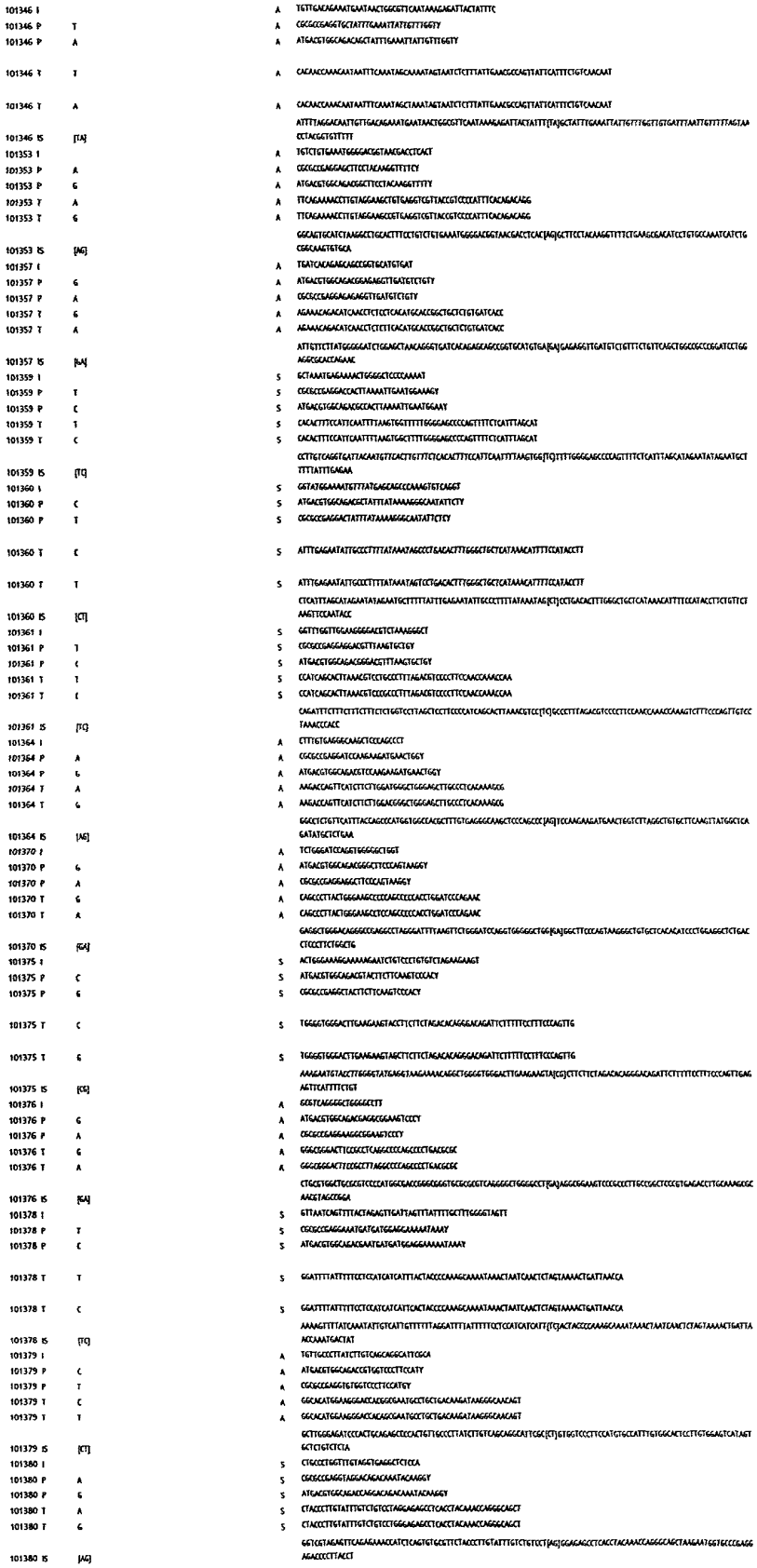
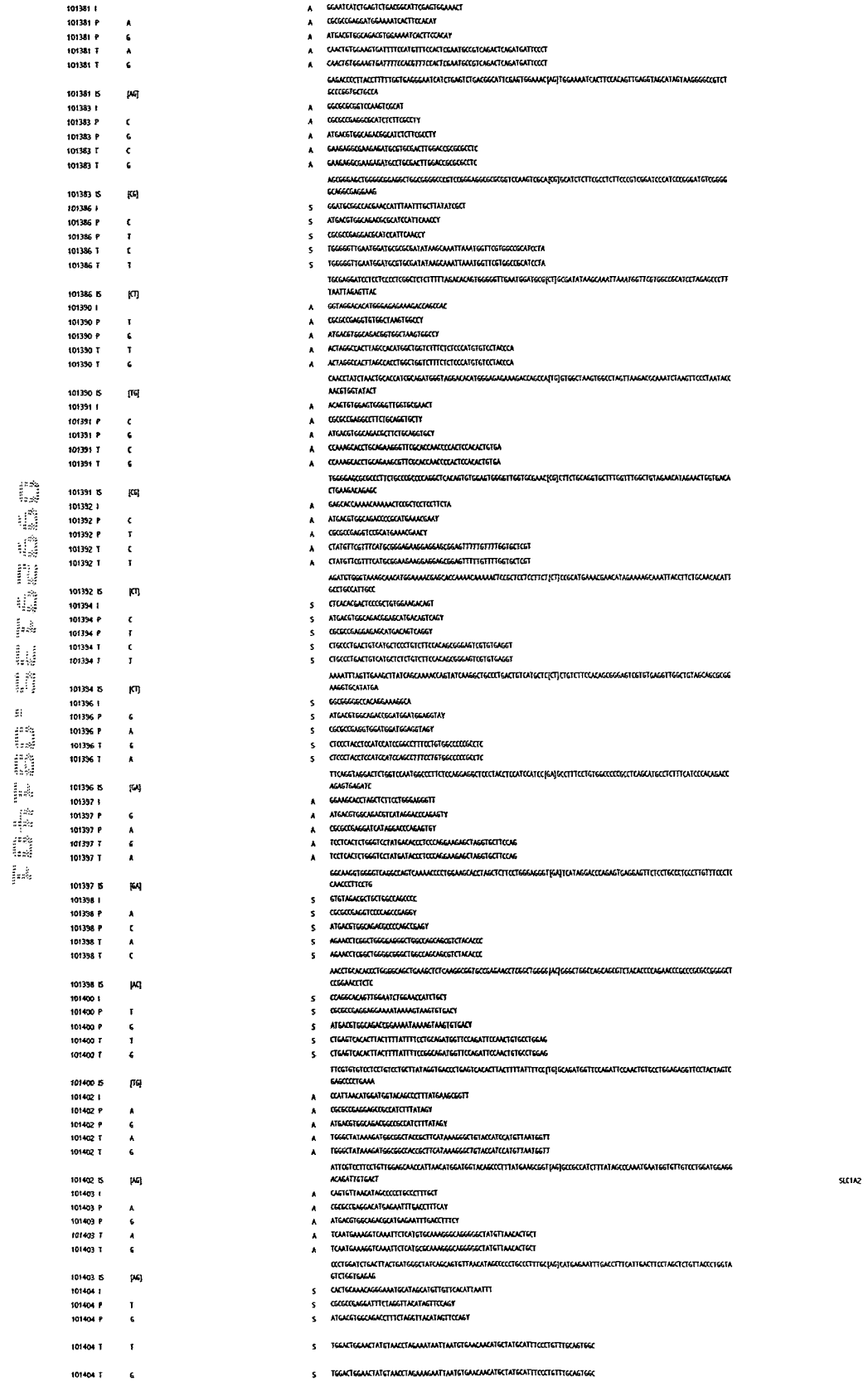

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101319 P G A ATGACGTGGCAGACGGGCAGAGCTGCTY
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101325 P A S CGCGCCGAGGTTCATATTCTGATTAGGTAAATGTCY
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101329 IS [CG] CTGGCCAGGTTCTAGTTCTTAGGTTTGCTCCTTACATTCATGAAAAGAGCCAAACATTTT[CG]CAGAGCCCAGGGCACAATTTTGATTCCCGTTGATTTTGAATGTTCTC TAATACTTTGTAG
101330 I S ACTAAAGGAGACAGTGGCCAGTTCTCTAATAAATTAGACAGAGAAATGCAA
101330 P A S CGCGCCGAGGTGTTAGAATGAGCAAAATCTCTY
101330 P G S ATGACGTGGCAGACCGTTACAATGAGCAAAATCTCY
101330 T A S TAACAGAGATTTTGCTCATTCTAACATGCATTTCTGTTCTAATTTATTAGAGAACTGGCCACTGTCTCCTTTAGTTT
101330 T G S TAACAGAGATTTTGCTCATTCTAACGTGCATTTCTGTTCTAATTTATTAGAGAACTGGCCACTGTCTCCTTTAGTTT
101330 IS [AG] TTTCAGATTAACTAGAGCTCTTGATGTCAGCTTCATAACAGAGATTTTGCTCATTCTAAC[AG]TGCATTTCTGTTCTAATTTATTAGAGAACTGGCCACTGTCTCCTTTA GTTTGTTCTCATA
101331 I A GAATGAATGAGCTTTGCGATGTTCTTGTCTCCTCT
101331 P A A CGCGCCGAGGAGAAGTCATAAATTGGAATTTACTTY
101331 P G A ATGACGTGGCAGACGGAAGTCATAAATTGGAATTTACTY
101331 T A A TAGAAAAGTAAATTCCAATTTATGACTTCTGAGGAGACAAGAACATCGCAAAGGTCATTCATTCAT
101331 T G A TAGAAAAGTAAATTCCAATTTATGACTTCCGAGGAGACAAGAACATCGCAAAGGTCATTCATTCAT
101331 IS [AG] CTCTACATGCACATACATTCTAAATGAATGAATGACCTTTGCGATGTTCTTGTCTCCTC[AG]GAAGTCATAAATTGGAATTTACTTTTCTAATTCATCAAGTTCGTGTG TTATAAAGTATTT
101333 I A GCCCTCCTGATTATCTACCCAGTGGCCGAGA
101333 P T A CGCGCCGAGGTGGAGTACATCACAGGTCY
101333 P C A ATGACGTGGCAGACCGGAGTACATCACAGGTY
101333 T T A CCAGGACCTGTGATGTACTCCACTCGGCCACTGGGTAGATAATCAGGAGGGCCA
101333 T C A CCAGGACCTGTGATGTACTCCGCTCGGCCACTGGGTAGATAATCAGGAGGGCCA
101333 IS [TC] CCCATGCTCTCTTCCTAGTTGTTGACTGTGGCCCTCCTGATTATCTACCCAGTGGCCGAG[TC]GGAGTACATCACAGGTCCTGGAGTGACCACCTACAAAGCTGTGATTCA GTACAGCTGTGA
101335 I S AGTTCGTTTCAGAGATTTCTTCTCTTCTGTTGCTAGACAAAAGAGAAAGTT
101335 P C S ATGACGTGGCAGACCATAAATTTGAGTCACATATCCTGY
101335 P T S CGCGCCGAGGAATAAATTTGAGTCACATATCCTGY
101335 T C S ACTACAGGATATGTGACTCAAATTTATCACTTTCTCTTTTGTCTAGCAACAGAAGAGAAGAAATCTCTGAAACGAACTTT
101335 T T S ACTACAGGATATGTGACTCAAATTTATTACTTTCTCTTTTGTCTAGCAACAGAAGAGAAGAAATCTCTGAAACGAACTTT
101335 IS [CT] ATGTGGCCCATTGTGCATAGCATGTGACTTATCACTACAGGATATGTGACTCAAATTTAT[CT]ACTTTCTCTTTTGTCTAGCAACAGAAGAGAAGAAATCTCTGAAACGA ACTTTTCAGCAAA
101336 I S AGTTTGCAGGCTACCAGTAAACCTCAATTACTGAATCAAAGATAAT
101336 P C S ATGACGTGGCAGACGAGGCAAGCAGATACAAAY
101336 P G S CGCGCCGAGGCAGGCAAGCAGATACAAAY
101336 T C S CTCATTTGTATCTGCTTGCCTCTTATCTTTGATTCAGTAATTGAGGTTTACTGGTAGCCTGCAAACGTGA
101336 T G S CTCATTTGTATCTGCTTGCCTGTTATCTTTGATTCAGTAATTGAGGTTTACTGGTAGCCTGCAAACGTGA
101336 IS [CG] AAAGAGCTGAACTTCTTACTCATTTTTATCTTATCTTACTCATTTGTATCTGCTTGCCT[CG]TTATCTTTGATTCAGTAATTGAGGTTTACTGGTAGCCTGCAAAGTG ATTCTCATTGAGC
101338 I S AGACATTACGCACATTTTCTGGAGAGGTTTAGTGCTTTCTCTACT
101338 P T S CGCGCCGAGGACAGAAACACAAGAAAACACY
101338 P C S ATGACGTGGCAGACGCAGAAACACAAGAAAACACY
101338 T T S GCATGTGTTTTCTTGTGTTTCTGTGTAGAGAAAGCACTAAACGTCTCCAGAAAATGTGGGTAATGTCTCC
101338 T C S GCATGTGTTTTCTTGTGTTTCTGCGTAGAGAAAGCACTAAACGTCTCCAGAAAATGTGCGTAATGTCTCC
101338 IS [TC] TTTGGCTGCAAGAAATCTTGACCCTCCCTAGTATCAGGCATGTGTTTTCTTGTGTTTCTG[TC]GTAGAGAAAGCACTAAACGTCTCCAGAAAATGTGCGTAATGTCTCCA ATGCTCTGCAAAC
101339 I S CGGCCACTCTCTTGCAAAGCACTTTCCCTATTTCTT
101339 P T S CGGCCCGAGGACTTAAGTTGGGAGTCAATTCY
101339 P C S ATGACGTGGCAGACGCTTAAGTTGGGAGTCAATY
101338 T T S AGCTGAATTGACTCCCAACTTAAGTAGAAATAGGGAAAGTGCTTTGCAAGAAGTGGCCCAC
101339 T C S AGCTGAATTGACTCCCAACTTAAGCAGAAATAGGGAAAGTGCTTTGCAAGAAGTGGCCCAC
101339 IS [TC] TCAGTTTCTGTACACTGTGTGACTGTGAAGTTTGACAGCTGAATTGACTCCCAACTTAAG[TC]AGAAATAGGGAAAGTGCTTTGCAAGAAGTGGCCCAGACACAGAACAC CCCGACAGCAGGGA
101340 I S GGTTGGCAAAGGGAAGCAAGCATAAATCAAACCAAATCAA
101340 P A S CGCGCCGAGGTGAATGCCAGCCAATATTAAY
101340 P G S ATGACGTGGCAGACCGAATGCCAGCCAATATY
101340 T A S AATTTTAATATTGGCTGGCATTCATGATTTGGTTTGATTTATGCTTGCTTCCCTTTGCCAACCTA
101340 T G S AATTTTAATATTGGCTGGCATTCGTGATTTGGTTTGATTTATGCTTGCTTCCCTTTGCCAACCTA
101340 IS [AG] TCAGTTTGACTGGCATTATTGGTTTCATGTTTGTGCCAATTTTAATATTGGCTGGCATTC[AG]TGATTTGGTTTGATTTATGCTTGCTTCCCTTTGCCAACCTATATATT CCTAAACTACATT
101343 I S AGTTTAGGAAATGGAGTCTTCTGCAAGGGTTCTT
101343 P C S ATGACGTGGCAGACGTATACTTTTCCCACATTGTATGY
101343 P T S CGCGCCGAGGATATACTTTTCCCACATTGTATGAY
101343 T C S AATCTCATACAATGTGGGAAAAGTATACAGAACCCTTGCAGAAGACTCCATTTCCTAAACTAT
101343 T T S AATCTCATACAATGTGGGAAAAGTATATAGAACCCTTGCAGAAGACTCCATTTCCTAAACTAT
101343 IS [CT] CAAAAGTGCCCAATTCACACCAAAATTTTGGAAAATCTCATACAATGTGGGAAAAGTATA[CT]AGAACCCTTGCAGAAGACTCCATTTCCTAAACTATTTTGCATTAATA TCAACGTTACAAA

FIGURE 129C




101381 I A GGAATCATCTGAGTCTGACGGCATTCGAGTGGAAACT
101381 P A A CGCGCCGAGGATGGAAAATCACTTCCACAY
101381 P G A ATGACGTGGCAGACGTGGAAAATCACTTCCACAY
101381 T A A CAACTGTGGAAGTGATTTTCCATGTTTCCACTCGAATGCCGTCAGACTCAGATGATTCCCT
101381 T G A CAACTGTGGAAGTGATTTTCCACGTTTCCACTCGAATGCCGTCAGACTCAGATGATTCCCT
GAGACCCCTTACCTTTTGGTGAGGGAATCATCTGAGTCTGACGGCATTCGAGTGGAAAC[AG]TGGAAAATCACTTCCACAGTTGAGGTAGCATAGTAAGGGGCGTCT
101381 IS [AG] GCCCGGTGCTGCCA
101383 I A GGCGCGCGGTCCAAGTCGCAT
101383 P C A CGCCCCGAGGCGCATCTCTTCGCCTY
101383 P G A ATGACGTGGCAGACGGCATCTCTTCGCCTY
101383 T C A GAAGAGGCGAAGAGATGCGTGCGACTTGGACCGCGCGCCTC
101383 T G A GAAGAGGCGAAGAGATGCCTGCGACTTGGACCGCGCGCCTC
ACGCGGAGCTGGGGCGCAGGCTGGCGGGGCCCGTCCGGGAGGGCGCGGTCCAAGTCGCA[CG]GCATCTCTTCGCCTCTTCCCGTCGGATCCCATCCCGGGATGTCGGGG
101383 IS [CG] GCAGGCGAGGAAG
101386 I S GGATGCGGCCACGAACCATTTAATTTGCTTATATCGCT
101386 P C S ATGACGTGGCAGACGCGCATCCATTCAACCY
101386 P T S CGCGCCGAGGACGCATCCATTCAACCY
101386 T C S TGGGGGTTGAATGGATGCGCGCGATATAAGCAAATTAAATGGTTCGTGGCCGCATCCTA
101386 T T S TGGGGGTTGAATGGATGCGTGCGATATAAGCAAATTAAATGGTTCGTGGCCGCATCCTA
TGCGAGGATCCTCCTCCCCTCGGCTCTCTCTTTTAGACACAGTGGGGGTTGAATGGATGCG[CT]GCGATATAAGCAAATTAAATGGTTCGTGGCCGCATCCTAGAGCCCTT
101386 IS [CT] TAATTAGAGTTAC
101390 I A GGTAGGACACATGGGAGAGAAAGACCAGCCAC
101390 P T A CGCGCCGAGGTGTGGCTAAGTGGCCY
101390 P G A ATGACGTGGCAGACGGTGGCTAAGTGGCCY
101390 T T A ACTAGGCCACTTAGCCACATGGCTGGTCTTTCTCTCCCATGTGTCCTACCCA
101390 T G A ACTAGGCCACTTAGCCACCTGGCTGGTCTTTCTCTCCCATGTGTCCTACCCA
CAACCTATCTAACTGCACCATCGCAGATGGGTAGGACACATGGGAGACAGAAAGACCAGCCA[TG]GTGGCTAAGTGGCCTAGTTAAGACCGAAATCTAAGTTCCCTAATACC
101390 IS [TG] AACGTGGTATACT
101391 I A ACAGTGTGGAGTGGGGTTGGTGCGAACT
101391 P C A CGCGCCGAGGCCTTCTGCAGGTGCTY
101391 P G A ATGACGTGGCAGACGCTTCTGCAGGTGCT
101391 T C A CCAAAGCACCTGCAGAAGGTTCGCACCAACCCACTCCACACTGTGA
101391 T G A CCAAAGCACCTGCAGAAGGTTCGCACCAACCCACTCCACACTGTGA
TGGGGAGCGCGCCCTTCTGCCCGCCCCAGGCTCACAGTGTGGAGTGGGGTTGGTGCGAAC[CG]CTTCTGCAGGTGCTTTGGTTTGGCTGTAGAACATAGAACTGGTGACA
101391 IS [CG] CTGAAGACAGAGC
101392 I A GAGCACCAAACAAAACTCCGCTCCTCCTTCTA
101392 P C A ATGACGTGGCAGACCCCGCATGAAACGAAY
101392 P T A CGCGCCCAGGTCCGCATGAAACGAACY
101392 T C A CTATGTTCGTTTCATGCGGGAGAAGGAGAGCGGAGTTTTGTTTGGTGCTCGT
101392 T T A CTATGTTCGTTTCATGCGGAAGAAGGAGAGCGGAGTTTTTGTTTTGGTGCTCGT
AGATGTGGGTAAAGCAACATGGAAAACGAGCAACCAAAACAAAAACTCCGCTCCTCCTTCTA[CT]CCGCATGAAACGAACATAGAAAAGCAAATTACCTTCTGCAACACATT
101392 IS [CT] GCCTGCCATTGCC
101394 I S CTCACACGACTCCCGCTGTGGAAGACAGT
101394 P C S ATGACGTGGCAGACGGAGCATGACAGTCAGY
101394 P T S CGCGCCGAGGAGAGCATGACAGTCAGGY
101394 T C S CTGCCCTGACTGTCATGCTCCCTGTCTTCCACAGCGGGAGTCGTGTGAGGT
101394 T T S CTGCCCTGACTGTCATGCTCCTGTCTTCCACAGCGGGAGTCGTGTGAGGT
AAAATTTAGTTGAAGCTTATCAGCAAAACCAGTATCAAGGCTGCCCTGACTGTCATGCTC[CT]CTGTCTTCCACAGCGGGAGTCGTGTGAGGTTGGCTGTAGCAGCGCGG
101394 IS [CT] AAGGTGCATATGA
101396 I S GGCGGGGCCACAGGAAAGCA
101396 P G S ATGACGTGGCAGACCGCATGGATGGAGGTAY
101396 P A S CGCGCCGAGGTGGATGGATGGAGGTAGY
101396 T G S CTCCCTACCTCCATCCATCCGGCCTTTCCTGTGGCCCCCGCCTC
101396 T A S CTCCCTACCTCCATGCATCCAGCCTTTCCTGTGGCCCCCGCCTC
TTCAGGTAGGACTCTGGTCCAATGGCCCTCTCCAGCAGGCTCCCTACCTCCATCCATCC[GA]GCCTTCCTGTGGCCCCCGCCTCAGCATGCCTCTTTCATCCCACAGACC
101396 IS [GA] AGAGTGAGATC
101397 I A GGAAGCACCTAGCTCTTCCTGGGAGGGTT
101397 P G A ATGACGTGGCAGACGTCATAGGACCCAGAGTY
101397 P A A CGCGCCGAGGATCATAGGACCCAGAGTGY
101397 T G A TCCTCACTCTGGGTCCTATGATACCCTCCCAGGAAGAGCTAGGTGCTTCCAG
101397 T A A TCCTCACTCTGGGTCCTATGATACCCTCCCAGGAAGAGCTAGGTGCTTCCAG
GGCAAGGTGGGGTCAGGCAGTCAAAACCCCTGGAAGCACCTAGCTCTCCTGGGAGGGG[GA]TCATAGGACCCAGAGTGAGGAGTTCTCCTGCCCTCCCTTGTTTCCCTC
101397 IS [GA] CAACCCTTCCTG
101398 I S GTGTAGACGCTGCTGGCCAGCCCC
101398 P A S CGCGCCGAGGTCCCCAGCCGAGGY
101398 P C S ATGACGTGGCAGAGGCCCCAGCCGAGY
101398 T A S AGAACCTCGGCTGGGGAGGGCTGGCCAGCAGCGTCTACACCC
101398 T C S AGAACCTCGGCTGGGGCGGGCTGGCCAGCAGCGTCTACACCC
AACCTGCACACCCTGGGGCAGCTGAAGCTCTCAAGGCGAGTGCCGACAGAACCTGGCTGGGG[AC]GGGCTGGCCAGCAGCGTCTACACCCCAGAACCCGCCCGCCGGGGCT
101398 IS [AC] CCGGAACCTCTC
101400 I S CCAGGCACAGTTGGAATCTGGAACCATCTGCT
101400 P T S CGCGCCGAGGAGCAAAATAAAAGTAAGTGTGACY
101400 P G S ATGACGTGGCAGACCGGAAAATAAAAGTAAGTGTGACY
101400 T T S CTGAGTCACACTTACTTTTATTTTCCTGCAGATGGTTCCAGATTCCAACTGTGCCTGGAG
101400 T G S CTGAGTCACACTTACTTTTATTTTCCGGCAGATGGTTCCAGATTCCAACTGTGCCTGGAG
TTCGTGTGTCCTCCTGTCCTGCTTATAGGTGACCCTGAGTCACACTTACTTTTATTTTCC[TG]GCAGATGGTTCCAGATTCCAACTGTGCCTGGAGAGGTTCCTACTAGTC
101400 IS [TG] GAGCCCCTGAAA
101402 I A CCATTAACATGGATGGTACAGCCCTTTATGAAGCGGTT
101402 P A A CGCGCCGAGGAGCCGCCATCTTTATAGY
101402 P G A ATGACGTGGCAGACGGCCGCCATCTTTATAGY
101402 T A A TGGGCTATAAAGATGGCGGCTACCGCTTCATAAAGGGCTGTACCATCCATGTTAATGGTT
101402 T G A TGGGCTATAAAGATGGCGGCCACCGCTTCATAAAGGGCTGTACCATCCATGTTAATGGTT
ATTCGTCCTCTCCTGTTGGAGCAACCATTAACATGGATGGTACAGCCCTTTATGAAGCGGT[AG]GCCGCCATCTTTATAGCCAAATGAATGGTGTTGTCCTGGATGGAGG
101402 IS [AG] ACAGATTGTGACT
101403 I A CAGTGTTAACATAGCCCCCTGCCCTTTGCT
101403 P A A CGCGCCGAGGACATGACAATTTGACCTTTCAY
101403 P G A ATGACGTGGCAGACGGATGACAATTTGACCTTTCY
101403 T A A TCAATGAAAGGTCAAATTCTCATGTGCAAAGGGCAGGGGGCTATGTTAACACTGCT
101403 T G A TCAATGAAAGGTCAAATTCTCATGCGCAAAGGGCAGGGGGCTATGTTAACACTGCT
CCCTGGATCTGACTTACTGATGGGCTATCAGCAGTGTTAACATAGCCCCCTGCCCTTTGC[AG]CATGAGAATTTGACCTTTCATTGACTTCCTAGCTCTGTTACCCTGGTA
101403 IS [AG] GTCTGGTGAGAG
101404 I S CACTGCAAACAGGCAAATGCATAGCATGTTGTTCACATTAATTT
101404 P T S CGCGCCGAGGATTTCTAGGTTACATAGTTCCAGY
101404 P G S ATGACGTGGCAGACCTTTCTAGGTTACATAGTTCCAGY
101404 T T S TGGACTGGAACTATGTAACCTAGAAATAATTAATGTGAACAACATGCTATGCATTTCCCTGTTTGCAGTGGC
101404 T G S TGGACTGGAACTATGTAACCTAGAAAGAATTAATGTGAACAACATGCTATGCATTTCCCTGTTTGCAGTGGC

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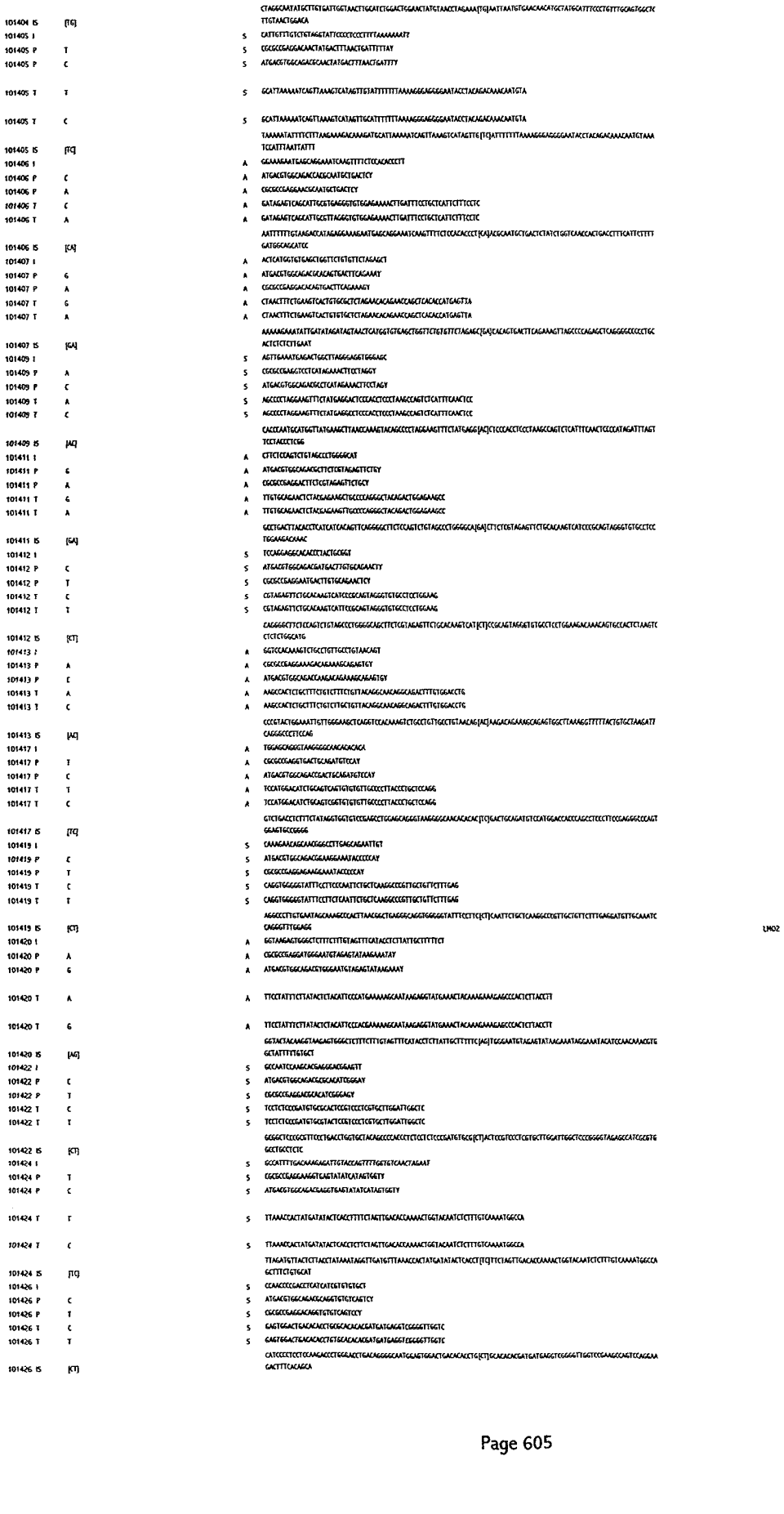
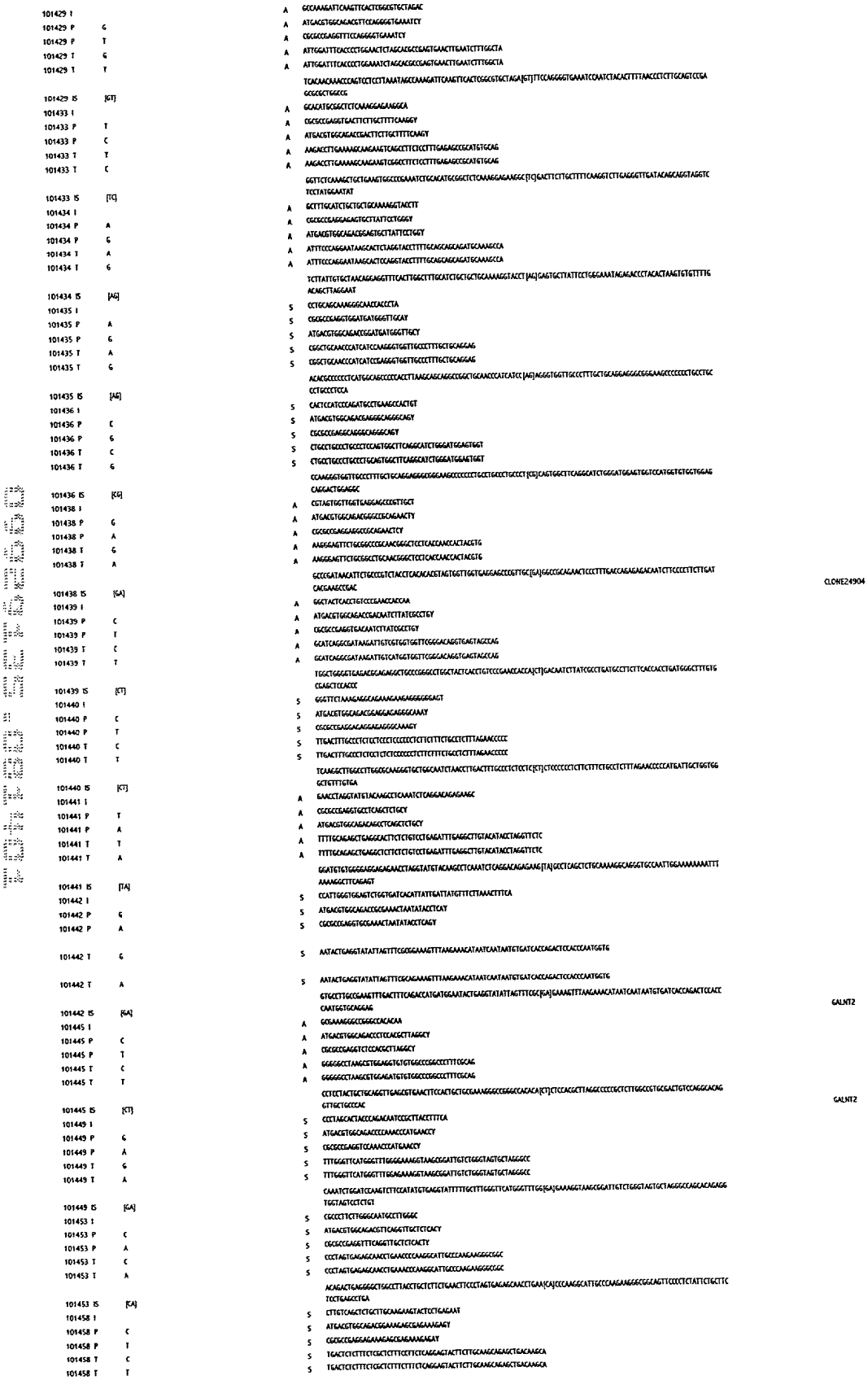
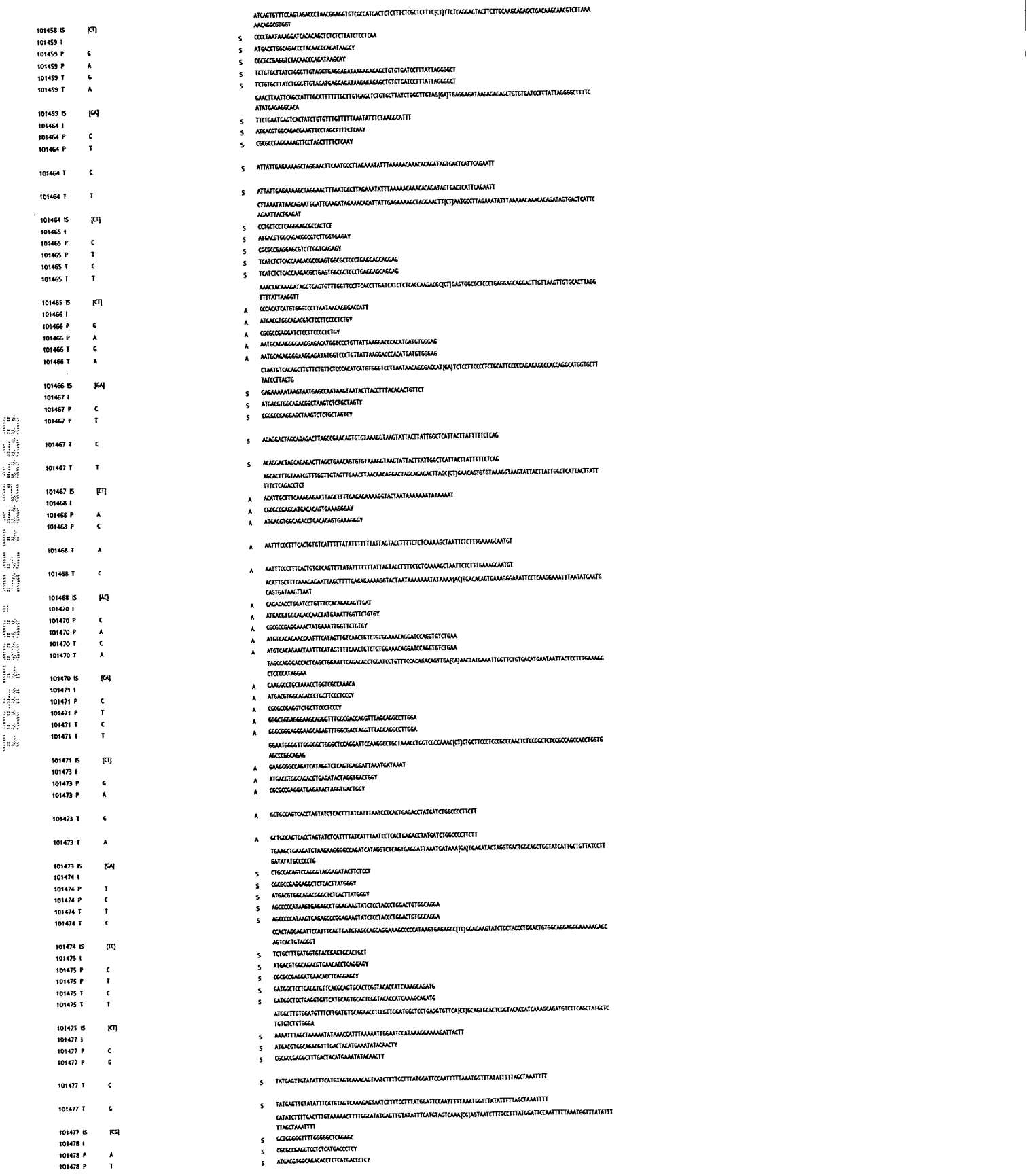


FIGURE 129C





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101478 T    A     S  AAGGGAGGGTCATGAGAGGACTCTGAGCCCCCAAAACCCCCAGCCC
101478 T    T     S  AAGGGAGGGTCATGAGAGGTCTCTGAGCCCCCAAAACCCCCAGCCC

                   AGTTCATGGCTCTGCAGGATACCTTCTGCACAGCCTCCTGGAAAGGGAGGGTCATGAGAGG[AT]CTCTGAGCCCCCAAAACCCCCAGCCCTGCTCCCTGGGCACACAGGCCA
101478 IS   [AT]   GACTCACAGCGC

101479 I           A  GACACCGGTTCTGACTTGATGCTGATGTGGGT
101479 P    G      A  ATGACGTGGCAGACGGTGGGTGGTGACTY
101479 P    A      A  CGCGCCCAGGAGTGGGTGGTGACTGY
101479 T    G      A  CTCACAGTCACCACCCACCCCACATCAGCATCAAGTCAGAACCGGTGTCCC
101479 T    A      A  CTCACAGTCACCACCCACTCCCACATCAGCATCAAGTCAGAACCGGTGTCCC

                   GAGGCGCAGGGCTGCGCTCACGGCTTGGGGCACACCGGTTCTGACTTGATGCTGATGTGGG[GA]GTGGGTGGTGACTGTGAGGGCACCACCCACGTGGGGCAGGGGGCTG
101479 IS   [GA]   CCCGGGCTGGAGGC

101480 I           A  TTCATGCTGGGGGACCGCAGAGCAATAT
101480 P    C      A  ATGACGTGGCAGACCCAGAATTCAAAGCAY
101480 P    A      A  CGCGCCGAGGACAGAATTCAAAGCACY
101480 T    C      A  TGCTGTGGCTTTGAATTCTGGGTATTGCTCTGCGGTCCCCAGCATGAAGT
101480 T    A      A  TGCTGTGGCTTTGAATTCTGGTTATTGCTCTGCGGTCCCCAGCATGAAGT

                   CGCACAGGCGACAGGGCCAAGGACACGACGTACTTCATGCTGGGGGACCGCAGAGCAATA[CA]CCAGAATTCAAAGCCACAGCAAAGAGCTCACAGCCTCACTTACCAGA
101480 IS   [CA]   TCTAAATGGTCCT

101481 I           A  TGGGTGCTGTGGGTAGGTGGGGGA
101481 P    C      A  ATGACGTGGCAGACCGGAGACTTGGCAGGY
101481 P    T      A  CGCGCCGAGGTGGAGACTTGGCAGGY
101481 T    C      A  CATCCCTGCCAAGTCTCCACCCCCACCTACCCACAGCACCCAGC
101481 T    T      A  CATCCCTGCCAAGTCTCCACCCCCACCTACCCACAGCACCCAGC

                   GACTCGCAGCTCCGGCTTCGCGCTGGGGGCTCCAAGCTGGGTGCTGTGGGTAGGTGGGGG[CT]GGAGACTTGGCAGGGATGACCTTGTTTAGGCTGTTGCCATTGGCCA
101481 IS   [CT]   CAGGGAGGAGCCA                                                                                                    MEF2D

101485 I           A  CCCCCTACTCTTCCCCGACCTCCTTCA
101485 P    C      A  ATGACGTGGCAGACCTCAGGGTTCCCAGCY
101485 P    T      A  CGCGCCGAGGTTCAGGGTTCCCAGCY
101485 T    C      A  AGATGCTGGGAACCCTGAGGAAGAGGTCGGGGAAGAGTAGGGGGCC
101485 T    T      A  AGATGCTGGGAACCCTGAGGAAGAGGTCGGGGAAGAGTAGGGGGCC

                   CTCGCTGGAGTTCCTTCCAGCCCCTCCCCTAAGGGCCCCCTACTCTTCCCCGGACCTCCTTC[CT]TCAGGGTTCCCAGCATCTCCCTGGCCCCTCCCCACTGACAGTGCCTCCTGG
101485 IS   [CT]   GGCATCGTG

101487 I           A  CAGGATGTGGCACGGGGCCAGGA
101487 P    C      A  ATGACGTGGCAGACGGACTGAACTCAGCTY
101487 P    T      A  CGCGCCGAGGTGGCTGAACTCAGCTY
101487 T    C      A  GGCCAGCTGAGTTCAGCCGCCTTGGCCCCCGTGCACATCCTGCC
101487 T    T      A  GGCCAGCTGAGTTCAGCCACCTTGGCCCCCGGTGCACATCCTGCC

                   CATGTGTGCACCCTTCATGCACTGAAATAATACTAGGCAGGATGTGCACGCGGGGCCAAGG[CT]GGCTGAACTCAGCTGGCCTGGTGGCGGAGGTGACCGAAGCCCCTCG
101487 IS   [CT]   CCCCTCCCCGGGAC

101489 I           S  CCAGATTGTTTTGGTTCACAGGCTGAGGGCATT
101489 P    C      S  ATGACGTGGCAGACGTTATCCTTGCAGGACCY
101489 P    T      S  CGCGCCGAGGATTATCCTTGCAGGACCTY
101489 T    C      S  TTGAAGGTCCTGCAAGGATAACATGCCCTCAGCCTGTGAACCAAACAATCTGGTT
101489 T    T      S  TTGAAGGTCCTGCAAGGATAATATGCCCTCAGCCTGTGAACCAAACAATCTGGTT

                   ATGTGCTCTCTGCCTTTTTTCCCTGCTTCCCTTCATGTTTGAAGGTCCTGCAAGGATAA[CT]ATGCCCTCAGCCTGTGAACCAAACAATCTGGTTATAAACCATCTTGC
101489 IS   [CT]   ACTTGTTTCCAT

101490 I           A  CCTCGCCCCCTGTGAGGCCCAT
101490 P    C      A  ATGACGTGGCAGACCCCATAGCTCTGTGCY
101490 P    A      A  CGCGCCCAGGACCATAGCTCTGTGCGY
101490 T    C      A  TTGCCGCACAGAGCTATGGGTGGGCCTCACAGGGGCCAGGGC
101490 T    A      A  TTGCCGCACAGAGCTATGGTTGGGCCTCACAGGGGCCAGGGC

                   TGAGTTCTGAGCAGTATGAGATGACGGAGTGCCCGGCAGCCCTCCCCCCTGTGAGCCCA[CA]CCATAGCTCTGTGCGGCAAGTTGAGGATGGTCTTACCTTCCCAGGTT
101490 IS   [CA]   AGTTGACTATGGT

101491 I           S  CAGGATTCACAGAAAAGATCCAGGCAGCTGCTC
101491 P    A      S  CGCGCCGAGGTCTTGTTCTTCCTCCTCATY
101491 P    C      S  ATGACGTGGCAGACGCTTGTTCTTCCTCCTCCY
101491 T    A      S  GAGGATGAGGAGGAAGAACAAGAAGCAGCTGCCTTGGATCTTTCTGTGAATCCTGCG
101491 T    C      S  GAGGATGAGGAGGAAGAACAAGCAGCAGCTGCCTTGGATCTTTCTGTGAATCCTGCG

                   TCAAATTTGAAGAGCTTAAAAATGTCAAACTAGAAAGAGAGGATGAGGAGGAAGAACAAG[AC]AGCAGCTGCCTTGGATCTTTCTGTGAATCCTGCGTCTGTAGGGGG
101491 IS   [AC]   ACGCCTTGTCTCTC                                                                                                  KIAA0677

101494 I           S  CCAGTCACTTGTATCCCTGATCTTTTTCAGTAATGCAGCTT
101494 P    C      S  ATGACGTGGCAGACGTAGTATCATCTACCCAGGCY
101494 P    T      S  CGCGCCGAGGATAGTATCATCTACCCAGGCY

101494 T    C      S  GAAAGCCTGGGTAGATGATACTACAGCTGCATTACTGAAAAAAGATCAGGGATACAAGTGACTGAG

101494 T    T      S  GAAAGCCTGGGTAGATGATACTATAGCTGCATTACTGAAAAAAGATCAGGGATACAAGTGACTGAG

                   TTAAGTGGACTTAGATTTGTATGTCTGGAGAACATAGGAAAGCCTGGGTAGATGATACTA[CT]AGCTGCATTACTGAAAAAAGATCAGGGATACAAGTGACTGGAGAA
101494 IS   [CT]   AAGGTCCTAAATAG

101495 I           A  GCTTTAAGGAATTTTATTCCTGATTGAAAAGTTAAATCCTACTCATTTCCT
101495 P    A      A  CGCGCCGAGGATCATCTGCAAGACACTTTAAY
101495 P    G      A  ATGACGTGGCAGACGTCATCTGCAAGACACTTTY

101495 T    A      A  ATATTTAAAGTGTCTTGCAGATGATGGAAATGAGTAGCATTTAACTTTTCAATCAGGAATAAAATTCCTTAAAGCCT

101495 T    G      A  ATATTTAAAGTGTCTTGCAGATGACGGAAATGAGTAGCATTTAACTTTTCAATCAGGAATAAAATTCCTTAAAGCCT

                   AAATGTTGAGGCTTTAAGGAATTTTATTCCTGATTGAAAAGTTAAATCCTACTCATTTCC[AG]TCATCTGCAAGACACTTTAAATATAAATATACATTAAACACATTAA
101495 IS   [AG]   ATTCATAATATTTT

101496 I           A  GACCGGGCCTCCCAGCTACGCI
101496 P    G      A  ATGACGTGGCAGACGTTCTAAGTGCCATCACAY
101496 P    A      A  CGCGCCGAGGATTCTAAGTGCCATCACACY
101496 T    G      A  TTGCGTGTGATGGCACTTAGAATGCGTAGCTGGGAGGCCCCGTCCT
101496 T    A      A  TTGCGTGTGATGGCACTTAGAATGCGTAGCTGGGAGGCCCCGTCCT

                   TAAAGATTTGACAAGCTGGTGTTTGTGGGGGCAAATGAGGACCGGCCCCCAGCTACGC[GA]TTCTAAGTGCCATCACACGCAAGTATGCTCTGTTAGAGGAAGACTG
101496 IS   [GA]   CGAAGGCTTGGGC

101497 I           A  GCAGGATGAGCTGGTCAGCACTGGCTTTCT
101497 P    G      A  ATGACGTGGCAGACAGAGGGAGGAGGTGATY
101497 P    A      A  CGCGCCGAGGAAGGGAGGAGGTGATGY
101497 T    G      A  TTGGCATCACCTCCTCCCTCGAAAGCCAGTGCTGACCAGCTCATCCTGCAT
101497 T    A      A  TTGGCATCACCTCCTCCCTTGAAAGCCAGTGCTGACCAGCTCATCCTGCAT

                   CCTTGGGATGCTTAGGGGATGCATGCAACATGCAGGATGAGCTGGTCAGCACTGGCTTTC[GA]AGGGAGGAGGTGATGCCAACTCTGTTTCTTCCTGTATCCCACAACAG
101497 IS   [GA]   ATTCAAGCTAGAG

101498 I           A  CCTGGGGCACCTTTGTCACCCTAAAGACAGT
101498 P    A      A  CGCGCCGAGGACATGAACCATCTTAGAAGGY
101498 P    G      A  ATGACGTGGCAGACGCATGAACCATCTTAGAAGGY
101498 T    A      A  ACAGCCTCTAAAATGGTTCATGTCTGTCTTTAGGGTGACAAAGGTGCCCCAGGGA
101498 T    G      A  ACAGCCTCTAAAATGGTTCATGCCTGTCTTTAGGGTGACAAAGGTGCCCCAGGGA

                   GCGCCAATCTCGCCATACAGGCCTGCTCTCCTGGGGCACCTTTGTCACCCTAAAGACAG[AG]CATGAACCATCTTAGAAGGCTGTTAGCGAAGTCAGTTGTAACTCTGA
101498 IS   [AG]   AGTTAGCTCACTT
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FIGURE 129C

101500 1		S	CCGGCTCCTCGGGACTCGACCGTACT	
101500 P	C	S	ATGACGTGGCAGACGCATCTGGGACCTGCY	
101500 P	T	S	CGCGCCGAGGACATCTGGGACCTGCT	
101500 T	C	S	ATCCGCAGGTCCCAGATGCGTACGGTGGAGTCCCAGGAGCCGGTG	
101500 T	T	S	ATCCGCAGGTCCCAGATGTGTACGGTGGAGTCCCAGGAGCCGGTG	
101500 IS	[CT]		CTGTGTCCCCTCTAGGGCCTGGTGGGAGACTGCTGGGGTCACCATCCCCAGGTCCCCAGATG[CT]GTACGGTGGAGTCCCAGGAGCCCGGTGCCCTGCAGGCAGCTTCTGTGA GTCTGGCCCAGCC	
101503 1		S	TCCTATTATCAACATTTCCCCAAAGCCTGATACTTTGTCA	
101503 P	A	S	CGCGCCCAGGTCTTCTCGAATCATTTCCTTATTCTY	
101503 P	G	S	ATGACGTGGCAGACCCTTCTGAATCATTTCCTTATTCY	
101503 T	A	S	TTTTAGAATAAGGAAATGATTCAGAAGAGACAAAGTATCAGGCTTTGGGGAAATGTTGATAATAGGAAA	
101503 T	G	S	TTTTAGAATAAGGAAATGATTCAGAAGGGACAAAGTATCAGGCTT]GGGGAAATGTTGATAATAGGAAA	
101503 IS	[AG]		TGTTTATTTATTCACTTTAATATTCTCTTCCATTTTTAGAATAAGGAAATGATTCAGAAG[AG]GACAAAGTATCAGGCTTTGGGGAAATGTTGATAATAGGAAAATAA TACCTTTTTATCATT	
101505 1		S	GGATATTTCCAAAATGTATTCACCTAAATGTCTGTTTGATATAGGCAAAAATAT	
101505 P	T	S	CGCGCCGAGGAAAACAAAACACAAAACCTCAY	
101505 P	G	S	ATGACGTGGCAGACCAAACAAAACACAAAACCTCY	
101505 T	T	S	TACGTGAGGTTTTTGTGTTTTGTTTTTATTTTTGCCTATATCAAACAGACATTTAGGTGAATACATTTTGGAAATATCCTA	
101505 T	G	S	TACGTGAGGTTTTTGTGTTTTGTTTGTATTTTTGCCTATATCAAACAGACATTTAGGTGAATACATTTTGGAAATATCCTA	
101505 IS	[TG]		TCCCTGGCGCCCAACACATATGTGACTAAAATAATACGTGAGGTTTTTGTGTTTTGTTT[TG]TATTTTTGCCTATATCAAACAGACATTTAGGTGAATACATTTTGGAA ATATCCTAGTTTA	
101509 1		S	GCCCCTTCTTAGGAACAAATGAAGCCCAGATCCTATTTCTTTATTAAAAACT	
101509 P	C	S	ATGACGTGGCAGACGGCCATCCATTCCCCY	
101509 P	T	S	CGCGCCGAGGAGCCATCCATTCCCCY	
101509 T	C	S	TGCAGGGGAATGGATGGCCGTTTTTAATAAAGAAATAGGATCTGGGCTTCATTGTTCCTAAGAAGGGGCTG	
101509 T	T	S	TGCAGGGGAATGGATGGCTGTTTTTAATAAAGAAATAGGATCTGGGCTTCATTGTTCCTAAGAAGGGGCTG	
101509 IS	[CT]		TGTGGGTTAGGCATCTTCTCTAGGGCCCTATGTAGGTAGGTGTTGCAGGGGAATGGATGGC[CT]GTTTTTAATAAAGAAATAGGATCTGGGCTTCATTGTTCCTAAGAAG GGGCTGTCTCTCTCA	
101514 1		A	CCTTGAGCACATCTGCCAGAATTTCTTCTGTCTCCTT	
101514 P	G	A	ATGACGTGGCAGACGTCAATCAAAGATATTGTGTTCAY	
101514 P	A	A	CGCGCCGAGGATCAATCAAAGATATTGTGTTCAGY	
101514 T	G	A	AGCCCTGAACACAATATCTTTGATTGACAGGAGACAGAAGAAATTCTGGCAGATGTGCTCAAGGTG	
101514 T	A	A	AGCCCTGAACACAATATCTTTGATTGATAGGAGACAGAAGAAATTCTGGCAGATGTGCTCAAGGTG	
101514 IS	[CA]		CCACTGTCTGTCTGAAGACTTCCACCTTGAGCACATCTGCCAGAATTTCTTCTGTCTCCT[GA]TCAATCAAAGATATTGTGTTCAGGGCTCAGAACTTACAGCCCCAGAAC CAAGGTTCTCCA	
101516 1		S	CTGGAGAACAGCTGTGCTGGGCCCT	
101516 P	C	S	ATGACGTGGCAGAGGCTCAGACGTACGTGY	
101516 P	T	S	CGCGCCGAGGACTCAGACGTACGTGY	
101516 T	C	S	GGAGGCACGTACGTCTGAGCGGGCCCAGCACAGCTGTTCTCCCAGGG	
101516 T	T	S	GGAGGCACGTACGTCTGAGTGGGCCCAGCACAGCTGTTCTCCCAGGG	
101516 IS	[CT]		GATGAAGTCAAAGAGGATACCAGATGCAGCCAGTCTGCTGGGGAGGCACGTACGTCTGAG[CT]GGGCCCAGCACAGCTGTTCTCCAGGGCAAGGCTTGGCCATGGCAGCT GCCCCAGCGCCCG	
101517 1		S	CCTTCAGAGCATGTGCCCAATATCACTGTACACATTCACT	
101517 P	C	S	ATGACGTGGCAGACGTAGTTCTTTCCGCCTCY	
101517 P	T	S	CGCGCCGAGGATAGTTCTTTCCGCCTCY	
101517 T	C	S	GGTCAGAGGCGGAAAGAACTACGTGAATGTGTACAGTGATATTGGGCACATGCTCTGAAGGAA	
101517 T	T	S	GGTCAGAGGCGAAAGAACTATGTGAATGTGTACAGTGATATTGGGCACATGCTCTGAAGGAA	
101517 IS	[CT]		CAGTCCAGTCCGTGGTGCTCAGATCCCCAAGCAATCACAGGTCAGAGGCCGAAAGAACTA[CT]GTGAATGTGTACAGTGATATTGGGCACATGCTCTGAAGGAAGGGAA ACCGAAGAACGTCA	
101520 1		S	GAAAGGCAATTCACATGGTGAAGATGACGATTGCTTCTTTTTCT	
101520 P	C	S	ATGACGTGGCAGACGTCTGTAAAATGCTTACCTGTY	
101520 P	T	S	CGCGCCGAGGATCTGTAAAATGCTTACCTGTY	
101520 T	C	S	TCAAACAGGTAAGCATTTTACAGAGCAAAAAGAAGCAATCGTCATCTTCACCATGTGAATTGCCTTTCAT	
101520 T	T	S	TCAAACAGGTAAGCATTTTACAGATGAAAAAGAAGCAATCGTCATCTTCACCATGTGAATTGCCTTTCAT	
101520 IS	[CT]		GACTTCCACTCTTCTTTGTCATTACTGTGAGGGCTATCAAACAGGTAAGCATTTTACAGA[CT]GAAAAAGAAGCAATCGTCATCTTCACCATGTGAATTGCCTTTCATTC AAAGCAGGTGAT	
101522 1		A	GCAAATTCATTTTGTACGCTTTATATTTTCAAACCCAGCAAT	
101522 P	G	A	ATGACGTGGCAGACGCTCTAAAAGGGACATAAAATAACY	
101522 P	A	A	CGCGCCGAGGACTCTAAAAGGGACATAAAATAACY	
101522 T	G	A	TCTAAGTTATTTTATGTCCCTTTTAGAGCTTGCTGGGTTTGAAAATATAAAGCGTACAAAATGAATTTGCCT	
101522 T	A	A	TCTAAGTTATTTTATGTCCCTTTTAGAGTTTGCTGGGTTTGAAAATATAAAGCGTACAAAATGAATTTGCCT	
101522 IS	[GA]		ATATGGTTGTCATAATAAGGCAAATTCATTTTGTACGCTTTATATTTTCAAACCCAGCAA[GA]CTCTAAAAGGGACATAAAATAACTTAGAAATTGGGAAAAGATGGGC ATGTGTATGATCAT	
101523 1		A	CTTGGTCAACTAGATCTACCCTTGCTCCACCTGGT	
101523 P	A	A	CGCGCCGAGGAAAAGCACAAATATAATGAGAATGTY	
101523 P	G	A	ATGACGTGGCAGACGAAAGCACAAATATAATGAGAATGTY	
101523 T	A	A	TTAGACATTCTCATTATATTTGTGCTTTCCAGGTGGAGCAAGGGTAGATCTAGTTGACCAAGAT	
101523 T	G	A	TTAGACATTCTCATTATATTTGTGCTTTCCCAGGTGGAGCAAGGGTAGATCTAGTTGACCAAGAT	
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101524 1		S	TTTCGCTTCCGGAATACGTTTCCAAAAGAGCAGGT	
101524 P	C	S	ATGACGTGGCAGACGTAAACAAATTCTGCAGTGCY	
101524 P	T	S	CGCGCCGAGGATAAACAAATTCTGCAGTGCY	
101524 T	C	S	ATACGCACTGCAGAATTTGTTTACCCTGCTCTTTTGGAAACGTATTCCGGAAGCGAAACC	
101524 T	T	S	ATACGCACTGCAGAATTTGTTTATCCTGCTCTTTTGGAAACGTATTCCGGAAGCGAAACC	
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101525 1		S	GGCTTCACTTGATAGGCTCTTCGGATCGGTATCAT	
101525 P	G	S	ATGACGTGGCAGACCCAGGTTAACTTCTCACAGY	
101525 P	T	S	CGCGCCGAGGACAGGTTAACTTCTCACAGAY	
101525 T	G	S	GAGGTCTGTGAGAAGTTAACCTGGTGATACCGATCCGAAGAGCCTATCAAGTGAAGCCCC	
101525 T	T	S	GAGGTCTGTGAGAAGTTAACCTGTTGATACCGATCCGAAGAGCCTATCAAGTGAAGCCCC	
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101526 P	G	S	CGCGCCGAGGCTGTGTCTGTCTTTCACCY	
101526 P	C	S	ATGACGTGGCAGACGTGTGTCTGTCTTTCACCY	
101526 T	G	S	CCCAGGTGAAAGACAGACACAGAACACATCAACAGAATTCTCTGATGGTTCCCAGGCACA	
101526 T	C	S	CCCAGGTGAAAGACAGACACACACACATCAACAGAATTCTCTGATGGTTCCCAGGCACA	

FIGURE 129C

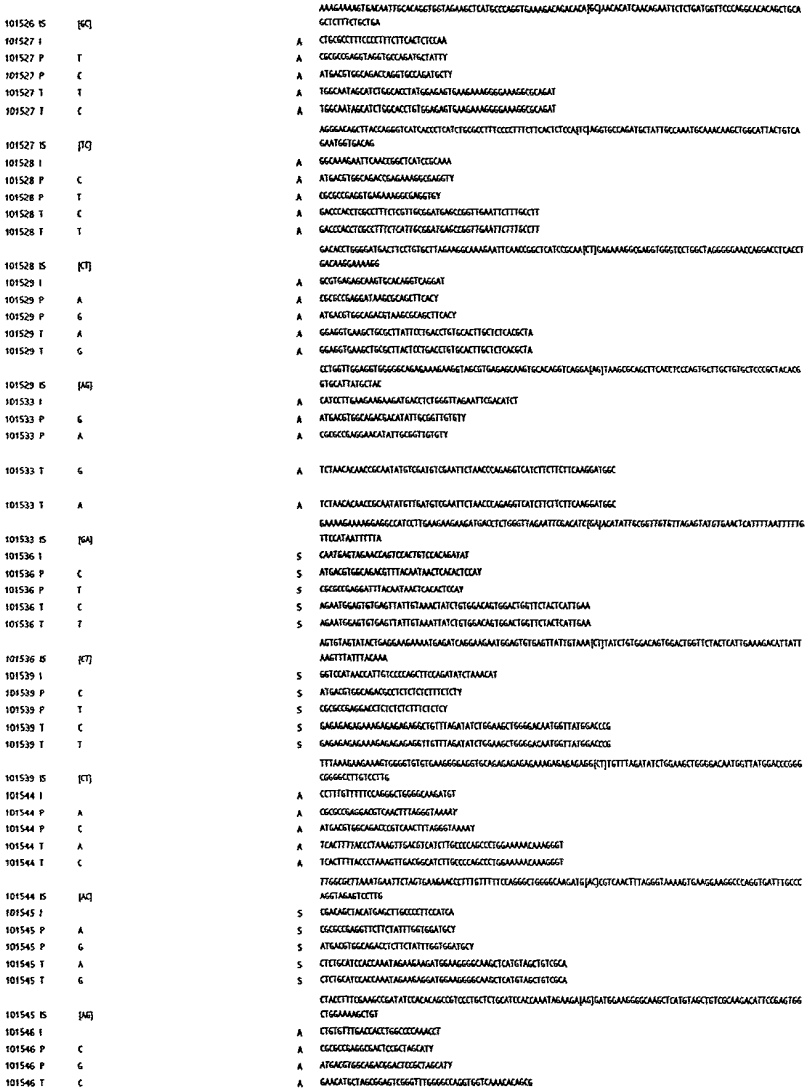
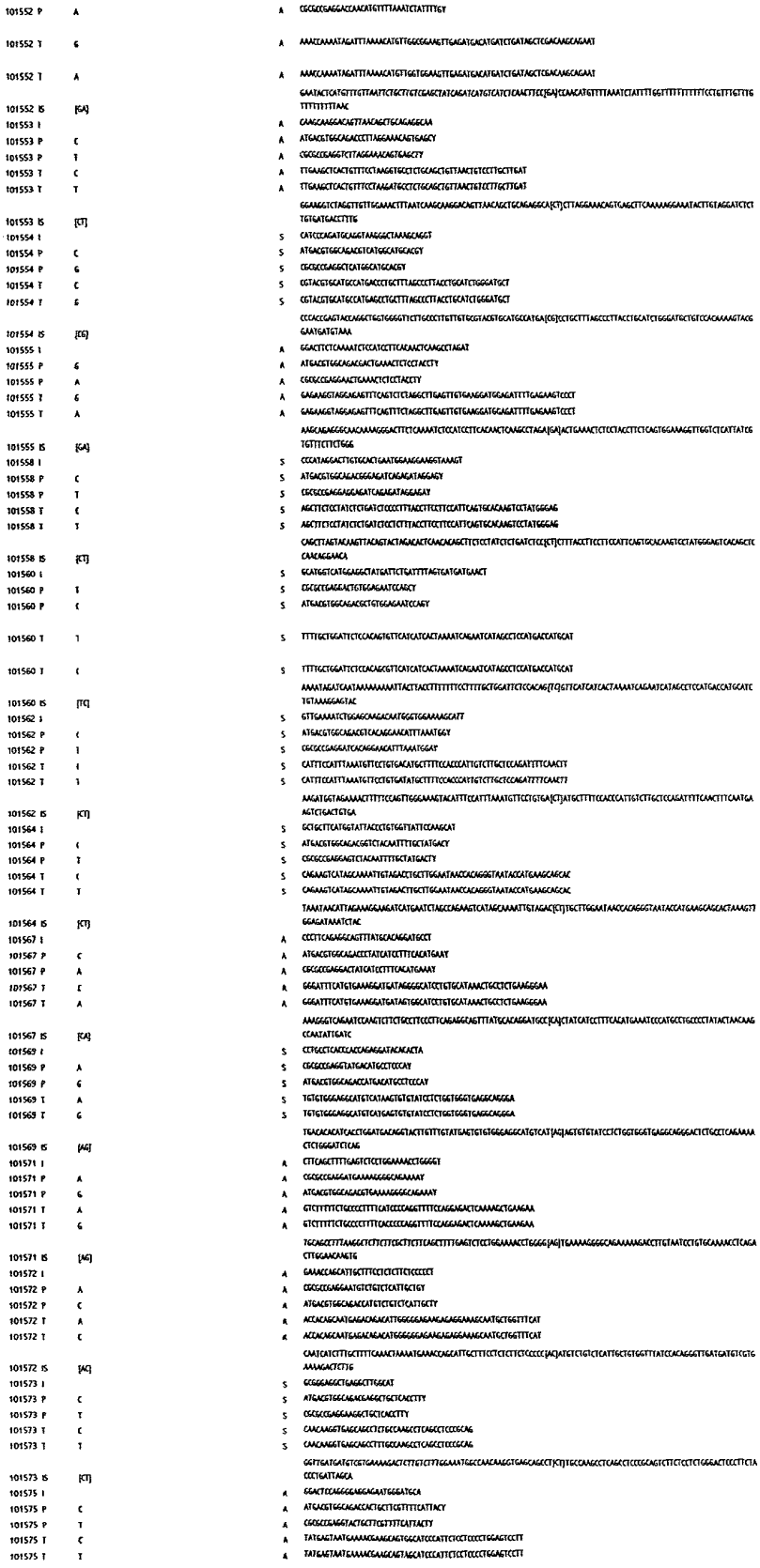
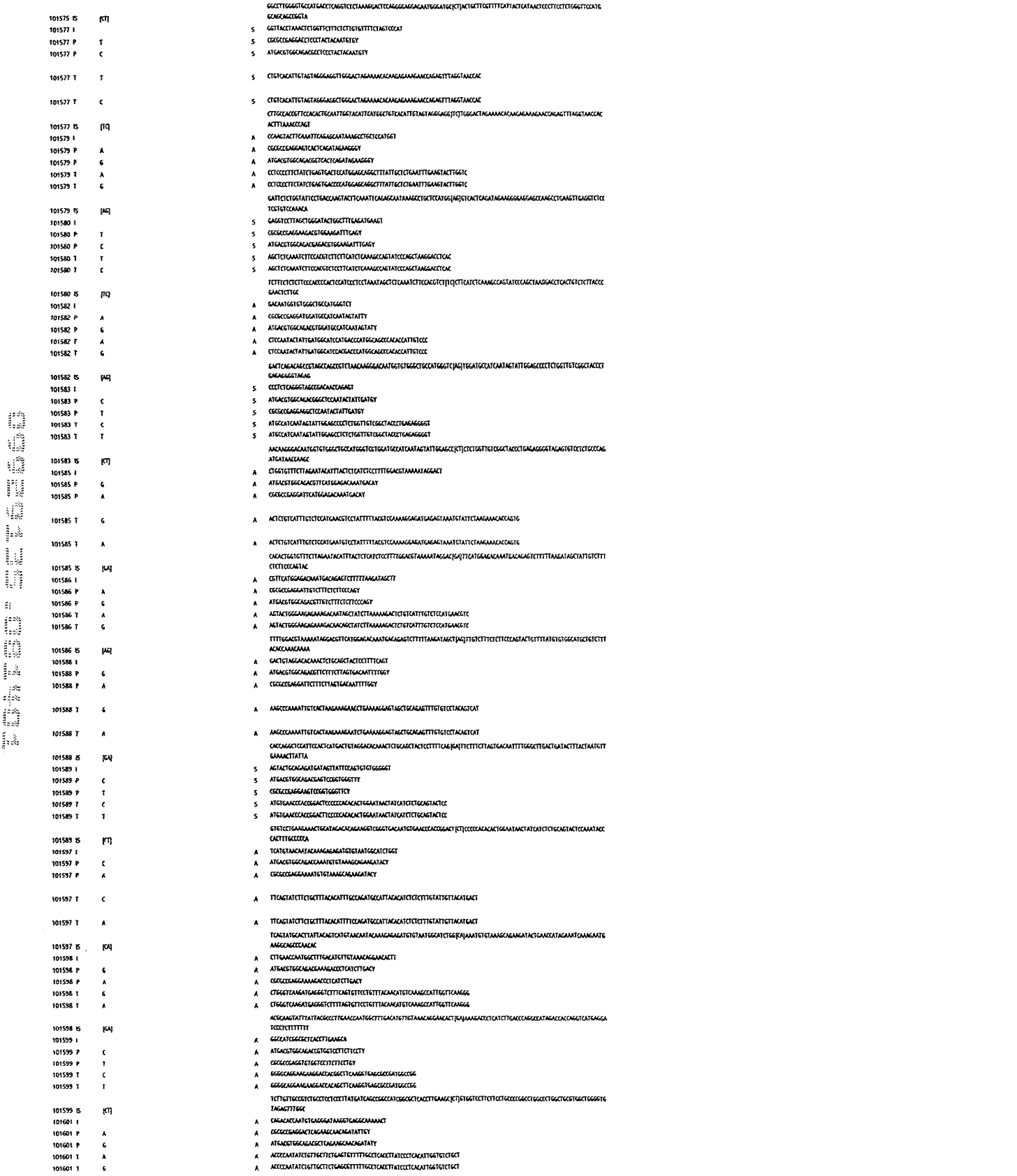
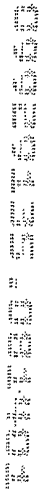


FIGURE 129C



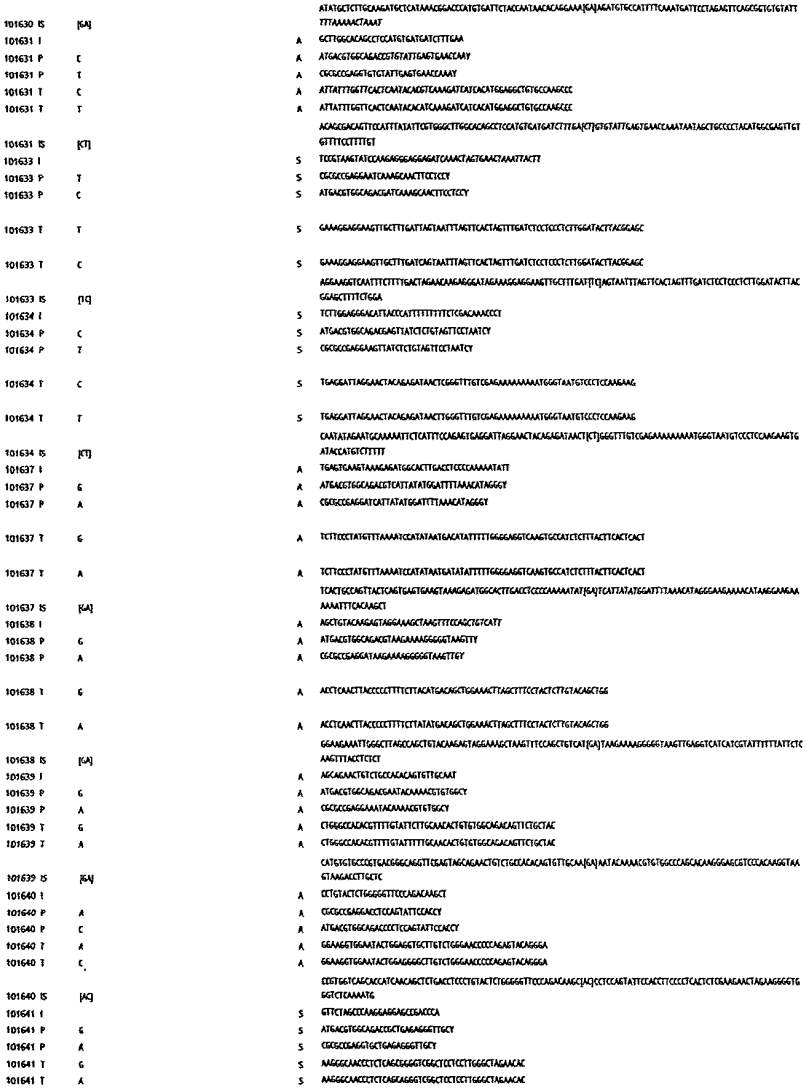
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101603 I		S	AACAGCCTAAATACTTTTTATCTCTAGTTTGGGCCCCTTTGTCTATGT	
101603 P	C	S	ATGACGTGGCAGACGACATATCATTTCTTTGTTGTTCCY	
101603 P	T	S	CGCGCCCAGGAACATATCATTTCTTTGTTGTTCCY	
101603 T	C	S	AGAAGGAACAACAAAGAAATGATATGTCCATAGACAAAGGGGCCCAAACTAGAGATAAAAAGTATTTAAGGCTGTTCA	
101603 T	T	S	AGAAGGAACAACAAAGAAATGATATGTTCATAGACAAAGGGGCCCAAACTAGAGATAAAAAGTATTTAAGGCTGTTCA	
101603 IS	[CT]		GCACACTAACTGAAAAGGCCAACAGAGTTCACAGAAGGAACAACAAAGAAATGATATGT[CT]CATAGACAAAGGGCCCAAACTAGAGATAAAAAGTATTTAAGGCT GTTCAATAATATACT	
101605 I		A	TGGACTCAATTTTTCTTTTCTTTTTAATACTGCTATTTTTCCAGCCT	
101605 P	G	A	ATGACGTGGCAGACGCGATGTGTAATACATAATGTGY	
101605 P	A	A	CGCGCCCAGGACGATGTGTAATACATAATGTGAY	
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101605 T	A	A	CTGCTCACATTATGTATTACACATCGTGGCTGGAAAAATAGCAGTATTAAAAAGAAAAGAAAAATTGAGTCCACT	
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101607 P	G	A	ATGACGTGGCAGACGTCCATGATCAAGAGCACY	
101607 P	A	A	CGCGCCCAGGATCCATGATCAAGAGCACY	
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101607 T	A	A	AGTGGTGCTCTTGATCATGGATAAATAGCAATTCTACCAGCCCCCAGAGGAGGTGCCA	
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101611 P	A	A	CGCGCCGACGAGTAGCTATCCTTTTCTACGTY	
101611 P	T	A	ATGACGTGGCAGACTGTAGCTATCCTTTTCTACGTY	
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101617 T	A	A	GACGTAGAGTTAAACTTAGTTTCTCTGTTTTGAAGGATCGAACAAATAATTTATTCAAGCAAGTATATGAACAGAAGAGCCTGAAG	
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101619 P	C	A	ATGACGTGGCAGACCTAAGTGCTTAACAAGTCACTY	
101619 P	A	A	CGCGCCGAGGATAAGTGCTTAACAAGTCACTY	
101619 T	C	A	GACCAGTGACTTGTTAAGCACTTAGGTTATCACCTTTTCTTTGAAGAAGTGGCAAATATTTTGTTTTTCTCATG	
101619 T	A	A	GACCAGTGACTTGTTAAGCACTTATGTTATCACCTTTTCTTTGAAGAAGTGGCAAATATTTTGTTTTTCTCATG	
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101621 P	G	A	ATGACGTGGCAGACGGCCAGGACTTCATCAY	
101621 P	A	A	CGCGCCGAGGAGCCAGGACTTCATCAY	
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101622 P	A	A	CGCGCCGAGGACTCTCCTCTTGCTGTAGY	
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101622 T	A	A	AGGACTACAGCAAGAGGAGAGTCCAAGGCGCTCCTTCCCCAGCCCC	
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101624 I		A	TGCACAGCAGCGCGCTTCCCAT	
101624 P	A	A	CGCGCCGAGGAGACATCTCTCCTCCTTY	
101624 P	G	A	ATGACGTGGCAGACGGACATCTCTCCTCCTTY	
101624 T	A	A	GAGAAGGAGGAGCAGAAGAATGTCTTGGGAAGCGCGCTGCTGTGCATA	
101624 T	G	A	GAGAAGGAGGAGCAGAAGAATGTCCTGGGAAGCGCGCTGCTGTGCATA	
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101626 P	C	S	ATGACGTGGCAGACGGTGCCCATGGCGY	
101626 P	T	S	CGCGCCGAGGAGTGGCCATGGCGY	
101626 T	C	S	CATCCGCCATGGCCACCGAAAACTGTGCGATGCATGGTATCAGGTGCTTTGTCA	
101626 T	T	S	CATCCGCCATGGCCACTGAAAACTGTGCGATGCATGGTATCAGGTGCTTTGTCA	
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101629 P	G	A	ATGACGTGGCAGACGCCCCAATATGCTCTTGY	
101629 T	A	A	CTTGCAAGAGCATATTGGGGTGATGAAGAAGCAAGAGCTCACCTCCCATCAGTCTCAGC	
101629 T	G	A	CTTGCAAGAGCATATTGGGGCGATGAAGAAGCAAGAGCTCACCTCCCATCAGTCTCAGC	
101629 IS	[AG]		GCCTCCAGGAAAAAAGGCGGTTAGCTGAGACTGATGGGAGGTGAGCTCTTCCTTCTTCATC[AG]CCCCAATATGCTCTTGCAAGATGCTCATAAACGGACCCATGTGATTC TACCAATAACACA	
101630 I		A	GCTCATAAACGGACCCATGTGATTCTACCAATAACACAGGAAAT	
101630 P	G	A	ATGACGTGGCAGACAGATGTGCCATTTTCAAATY	
101630 P	A	A	CGCGCCGAGGAAGATGTGCCATTTTCAAATGY	
101630 T	G	A	GAATCATTTGAAAATGGCACATCTCTTTCCTGTGTTATTGGTAGAATCACATGGGTCCGTTTATGAGCAT	
101630 T	A	A	GAATCATTTGAAAATGGCACATCTTTTTCCTGTGTTATTGGTAGAATCACATGGGTCCGTTTATGAGCAT	

FIGURE 129C



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101650 P T A CGCGCCGAGGTCTTTAAGCCCTCAATTCACT
101650 P A A ATGACGTGGCAGACACTTTAAGCCCTCAATTCACT
101650 T T A CTCAGTGAATTGAGGGCTTAAAGATAAACATATGGGATTGGAGTTGTGTGTCCATAGGGTTTCACTGC
101650 T A A CTCAGTGAATTGAGGGCTTAAAGTTAAACATATGGGATTGGAGTTGTGTGTCCATAGGGTTTCACTGC
101650 IS [TA] AACTCAAATCAAATAGGCAGTGAAACCCTATGGACACACAACTCCAATCCCATATGTTTA[TA]CTTTAAGCCCTCAATTCACTGAGATGAGTCCACATGCGTGTATTTAG TGTGACATGGATG
101652 I S GGACTATGACTTCCTTTCAGTTACTCTTCTCAAACACGGATGGA
101652 P A S CGCGCCGAGGTGTCAATTCAACTTACCATTGY
101652 P G S ATGACGTGGCAGACCGTCAATTCAACTTACCATTGY
101652 T A S AAACCAATGGTAAGTTGAATTGACACCATCCCTGTTTGAGAAGAGTAACTGAAAGGAAGTCATAGTCCTA
101652 T G S AAACCAATGGTAAGTTGAATTGAGCCATCCTGTTTGAGAAGAGTAACTGAAAGGAAGTCATAGTCCTA
101652 IS [AG] CGGAAGGTTTTCTGAAAGCTCAGCACTCACACAGAAAACCAATGGTAAGTTGAATTGAC[AG]CCATCCCTGTTTGAGAAGAGTAACTGAAAGGAAGTCATAGTCCTAC ATTTAAGTTTTAAG
101653 I A GCAATCCAATAAAATAAGCTACCTATGATGCAAAGCCTTCGATGTT
101653 P A A CGCGCCGAGGACTGTCCTTTTCCTTAGGAY
101653 P G A ATGACGTGGCAGACGCTGTCCTTTTTCCTTAGGY
101653 T A A TTCATCCTAAGGAAAAAGGACAGTACATCGAAGGCTTTGCATCATAGGTAGCTTATTTTATTGGATTGCTT
101653 T G A TTCATCCTAAGGAAAAAGGACAGCACATCGAAGGCTTTGCATCATAGGTAGCTTATTTTATTGGATTGCTT
101653 IS [AG] AGTGTTATTGGCAAAGCAATCCAATAAAATAAGCTACCTATGATGCAAAGCCTTCGATGT[AG]CTGTCCTTTTTCCTTAGGATGAAATTATTCACCCCAGAGTTTTCTTG CACCTTAAAGTGC
101654 I A TGGGTTCTTCAAAAATAGAGATAAATTCATGACACATCAGCCTTGTCAAGT
101654 P A A CGCGCCGAGGATTCCTACCCATAGCAGATY
101654 P G A ATGACGTGGCAGACGTTCCTACCCATAGCAGAY
101654 T A A ACATATCTGCTATGGGTAGGAATCTTGACAAGGCTGATGTGTCATGAATTTATCTCTATTTTTGAAGAACCCACA
101654 T G A ACATATCTGCTATGGGTAGGAACTTGACAAGGCTGATGTGTCATGAATTTATCTCTATTTTTGAAGAACCCACA
101654 IS [AG] GTACCATCTGTGGGTCTTCAAAAATAGAGATAAATTCATGACACATCAGCCTTGTCAAG[AG]TTCCTACCCATAGCAGATATGTTAACTGTATAATAAGCAAGTCTCTG TGTATAAAGGACC
101655 I A TGTTTCGTGCAGCAGGCTTTGTGATATCAGATGACAT
101655 P A A CGCGCCGAGGAGATACTAGAAGCTGTAACATTAGY
101655 P G A ATGACGTGGCAGACGGATACTAGAAGCTGTAACATTAY
101655 T A A CAACCTAATGTTACAGCTTCTAGTATCTGTCATCTGATATCACAAAGCCTCCTGCACGAAACAGT
101655 T G A CAACCTAATGTTACAGCTTCTAGTATCGTCATCTGATATCACAAAGCCTCCTGCACGAAACAGT
101655 IS [AG] TTCTTGATCACACCTACCAAGAACTGTTTCGTGCAGGAGGCTTTGTGATATCAGATGACA[AG]GATACTAGAAGCTGTAACATTAGGTTGGTCTTTATTTTCTTTCCTG TTTCTTTGAAGTC
101656 I S CCTCTGCTCCTGCCGGGCGTT
101656 P C S ATGACGTGGCAGACGGTCCCCCACCY
101656 P G S CGCGCCGAGGCGTCCCCCACCY
101656 T C S CTGCGGTGGGGGGACCACGCCCGGCAGGAGCACAGGCT
101656 T G S CTGCGGTGGGGGGACCACGCCCGGCAGGAGCACAGGCT
101656 IS [CG] GACACCTGCTGATGGACGGGGGCTACATCAACAACCTCCCAGGTACTGCGGTGGGGGGAC[CG]ACGCCCGGCAGGAGCACAGGCTCCTGGGTCACGCCGCCCACGGCCCC TGCCACAGCTGC
101658 I A GTCCTGCCCCATTCCTTCAATCTTTTTTCAGTTACTTACT
101658 P G A ATGACGTGGCAGACGTCTCCACATGCTCCTY
101658 P A A CGCGCCGAGGATCTCCACATGCTCCTCY
101658 T G A AGATGAGGAGCATGTGGAGACGTAAGTAACTGAAAAAAGATTGAAGAATGGGGCAGGACTT
101658 T A A AGATGAGGAGCATGTGGAGATGTAAGTAACTGAAAAAAGATTGAAGAATGGGGCAGGACTT
101658 IS [GA] GGAATGCTCTCAGAATACGTAAGTCCTGCCCCATTCTTCAATCTTTTTTCAGTTACTTAC[GA]TCTCCACATGCTCCTCATCTGCATCCTGCACATAATGAAGTCCACTCT GGTCGCGCGTAG
101660 I A TGAAGATGCACTTGCAACTGGTTGGGACAACAT
101660 P A A CGCGCCGAGGACCTCAAATTTAACCCTCCY
101660 P C A ATGACGTGGCAGACCCCTCAAATTTAACCCTCCY
101660 T A A TATAGGAGGGTTAAATTTGAGGTTGTTGTCCCAACCAGTTGCAAGTGCATCTTCATC
101660 T C A TATAGGAGGGTTAAATTTGAGGGTGTTGTCCCAACCAGTTGCAAGTGCATCTTCATC
101660 IS [AC] AGCTGGATGTGAATAAGCCAGTGGAAGATGAAGATGCACTTGCAACTGGTTGGGACAACA[AC]CCTCAAATTTAACCCTCCTATACCAGATGTAGAGAAAATAAACCCT GTAGTGGAAGTAGT
101663 I S TTTTGAGTTAGGATCCACACACAGGCTGGCATGT
101663 P C S ATGACGTGGCAGACAGGGTGCAGAGAGGCY
101663 P G S CGCGCCGAGGGGTGCAGGAGGCY
101663 T C S CGGGGCCTCCTGCACCCCATGCCAGCCGTGTGTGGATCCTAACTCAAAACC
101663 T G S CGGGGCCTCCTGCACCCCATGCCAGCCGTGTGTGGATCCTAACTCAAAACC
101663 IS [CG] CCCGAGGCTGTAGGGAGAGTCACCAAGGCCTCAGTCCTGACCCCCGGGCCCTCCTGCACC[CG]CATGCCAGCCGTGTGTGTGGATCCTAACTCAAAACCCAGACTAGACTGAG CCGCATCCTAAC
101664 I S CCTGGGACCTCGGTCCCGGTCCA
101664 P A S CGCGCCGAGGTGCTCTCCTCCCATCCAGY
101664 P G S ATGACGTGGCAGACCGTCTCTCCTCCATCCAY
101664 T A S GGTCCTGGATGGAGGAAGACAGGACCGGGACCGAGGTCCCAGGAG
101664 T G S GGTCCTGGATGGAGGAAGACAGGACCGGGACCGAGGTCCCAGGAG
101664 IS [AG] GGGGTTGGGCTGGCAGGGGCTCTTTCATCGGCACAGGTTGGTCCTGGATGGAGGAAGAC[AG]GGACCGGGACCGAGGTCCCAGGAGGGTGTGGTTGGGTAACGGCCCAC AGGCCCCGGGGTCC
101665 I A AGGCAGGGCAGGCCAGGCTTA
101665 P C A ATGACGTGGCAGACCGAGGCATGCTTGGY
101665 P T A CGCGCCGAGGTGAGGCATGCTTGGAY
101665 T C A CCCTTCCAAAGCATGCCTGGAAGCCTGCCTGCCTGCCTGG
101665 T T A CCCTTCCAAAGCATGCCTCAAAGCCTGCCTGCCTGCCTGG
101665 IS [CT] GGGAGGGTTCTGGCTGGTGCTGGAGACCCCTGCTGTCACCAGGCAGGGCAGGCCAGGCTT[CT]GAGGCATGCTTGGAAGGGGACGGTTGGAGGAAGAAGGAGGGGCTT AAGCAGCCAAGATGC
101666 I S CTGCTTAAGCCCCTCCTTCTTCCTCCAACCT
101666 P C S ATGACGTGGCAGACGTCCCCTTCCAAAGCY
101666 P T S CGCGCCGAGGATCCCCTTCCAAAGCAY
101666 T C S GGCATGCTTTGGAAGGGGACGGTTGGAGGAAGAAGGAGGGGCTTAAGCAGCG
101666 T T S GGCATGCTTTGGAAGGGGATGGTTGGAGGAAGAAGGAGGGGCTTAAGCAGCG
101666 IS [CT] GAGACCCCTGCTGTCACCAGGCAGGGCAGGCCAGGCTTCCAGGCATGCTTTGGAAGGGGA[CT]GGTTGGAGGAAGAAGGAGGGGCTTAAGCAGCCAGATGCACAGAAACT CCAAGGTGTGGAGG
101667 I S GAAGAGCCCCACTCACGCCCCATAGTCT
101667 P C S ATGACGTGGCAGACGCCTCTGTCTGGTGCY
101667 P G S CGCGCCGAGGCCCTCTGTCTGGTGCY
101667 T C S GGAGGCACCAGACAGAGGCGACTATGGGGCGTGAGTGGGGCTCTTCCC
101667 T G S GGAGGCACCAGACAGAGGGACTATGGGGCGTGAGTGGGGCTCTTCCC
101667 IS [CG] AGGAGGGCTTAAGCAGCGAGATGCAGAGAACTCCAAGGTGTGGAGGCACAGACAGAGG[CG]GACTATGGGGCGTGAGTGGGGCTCTTCCGGGGAAATATGGGGTCTC CCCAGACACTTACC
101668 I A GTGATTCCTGGAGAGCCACCAATACCCTAGACACT



FIGURE 129C

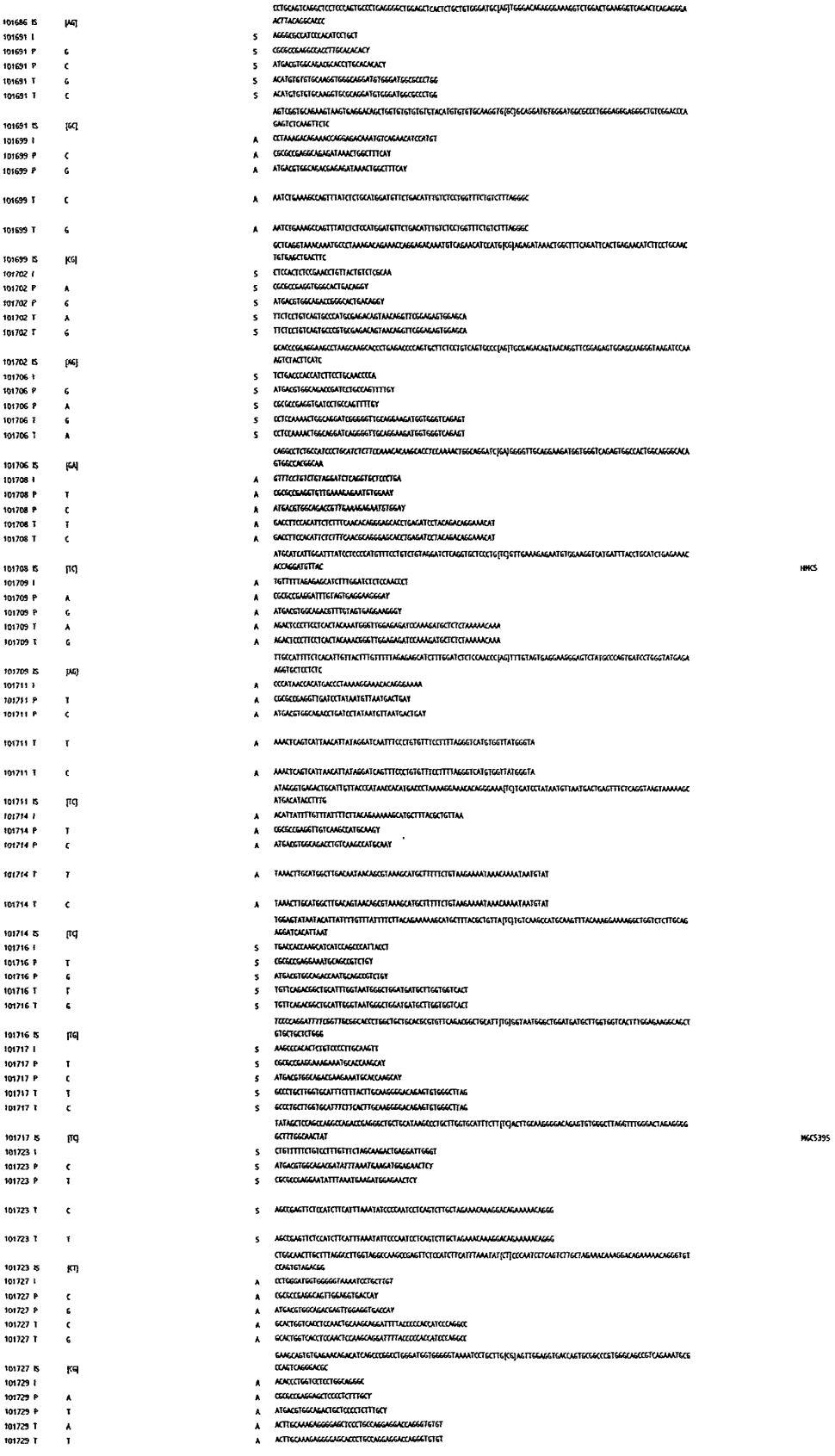
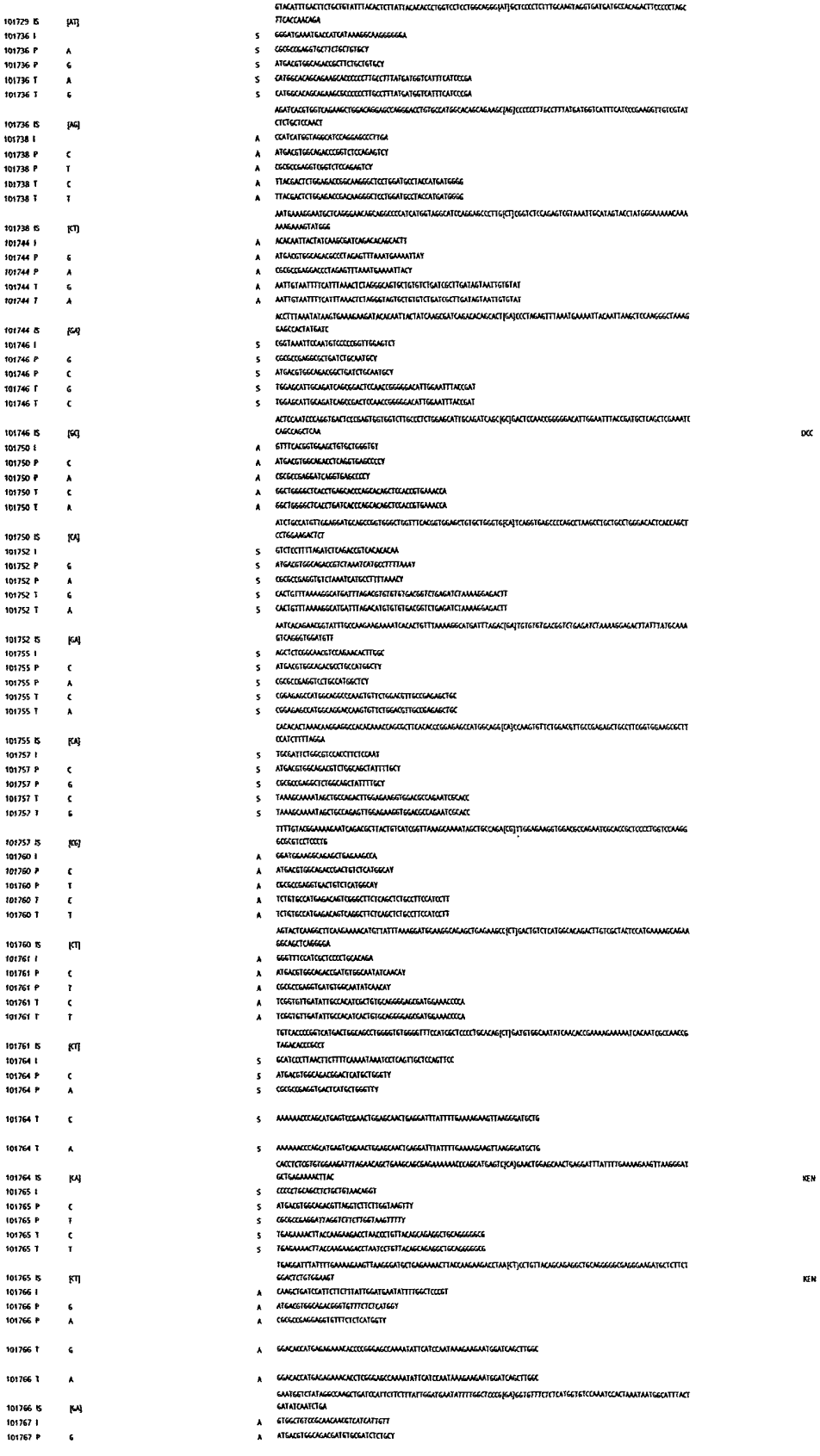
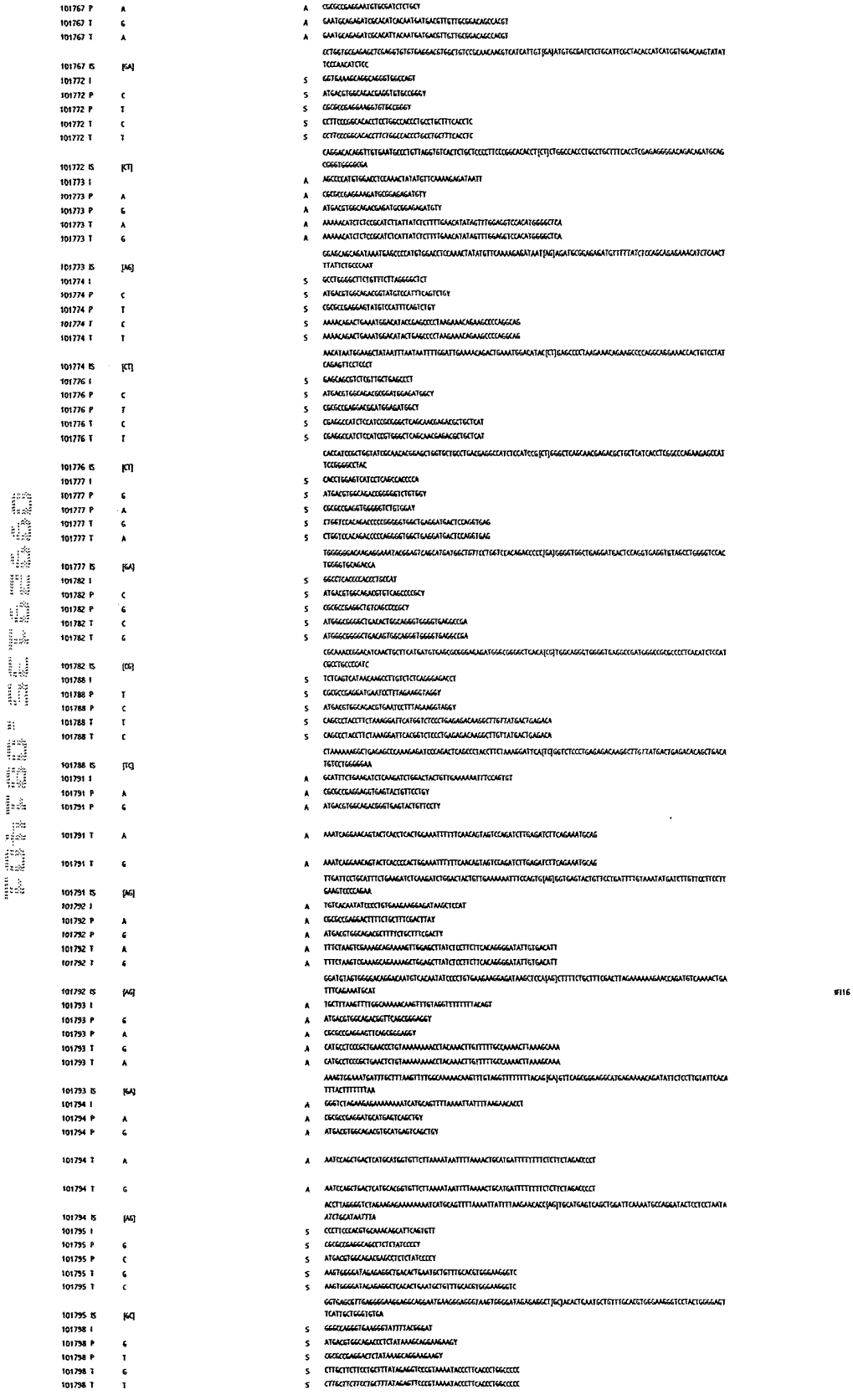


FIGURE 129C


GTACATTTGACTTCTGCTGTATTTACACTCTTATTACACACCCTGGTCCTCCTGGCAGGGGATTGCTCCCCTCTTTGCAAGTAGGTGATGATGCCACAGACTTCCCCCTAGC
101729 IS [AT] TTCACCAACAGA
101736 I S GGGATGAAATGACCATCATAAAGGCAGGGGGGA
101736 P A S GGCGCCGAGGTGCTCTGCTGTGCY
101736 P G S ATGACGTGGCAGACGCTTCTGCTGTGCY
101736 T A S CATGGCACAGCAGAAGCACCCCCCTTGCCTTTATGATGGTCATTTCATCCCGA
101736 T G S CATGGCACAGCAGAAGCGCCCCCTTGCCTTTATGATGGTCATTTCATCCCGA
101736 IS [AG] AGATCACGTGGTCAGAAGCTGGACAGGAGCCAGGGACCTGTGCCATGGCCACAGCAGAAGC[AG]CCCCCCT?GCCTTTATGATGGTCATTTCATCCCGAAGGTTGTCGTAT CTCTGCTCCAACT
101738 I A CCATCATGGTAGGCATCCAGGAGCCCTTGA
101738 P C A ATGACGTGGCAGACCCGGTCTCCAGAGTCY
101738 P T A CGCGCCGAGGTCGGTCTCCAGAGTCY
101738 T C A TTACGACTCTGGAGACCGGCAAGGGCTCCTGGATGCCTACCATGATGGGG
101738 T T A TTACGACTCTGGAGACCGACAAGGGCTCCTGGATGCCTACCATGATGGGG
101738 IS [CT] AATGAAAGGAATGCTCAGGGAACAGCAGCAGCCCCATCATGGTAGGCATCCAGGAGCCCTTG[CT]CGGTCTCCAGAGTGGTAAATTGCATAGTACCTATGGGAAAAACAAA AAAGAAAGTATGGG
101744 I A ACACAATTACTATCAAGCGATCAGACACAGCACTT
101744 P G A ATGACGTGGCAGACGCCCTACAGTTTAAATGAAAATTAY
101744 P A A CGCGCCGAGGACCCTAGAGTTTAAATGAAAATTACY
101744 T G A AATTGTAATTTTCATTTAAACTCTAGGGCAGTGCTGTGTCTGATCGCTTGATAGTAATTGTGTAT
101744 T A A AATTGTAATTTTCATTTAAACTCTAGGGTAGTGCTGTGTCTGATCGCTTGATAGTAATTGTGTAT
101744 IS [GA] ACCTTTAAATATAAGTGAAAGAAGATACACAATTACTATCAAGCGATCAGACACAGCACT[GA]CCCTAGAGTTTAAATGAAAATTACAATTAAGCTCCAAGGGCTAAAG GAGCCACTATGATC
101746 I S CGGTAAATTCCAATGTCCCCCGGTTGGAGTCT
101746 P G S CGCGCCGAGGCGCTGATCTGCAATGCY
101746 P C S ATGACGTGGCAGACGGCTGATCTGCAATGCY
101746 T G S TGGAGCATTGCAGATCAGCGGACTCCAACCGGGGGACATTGGAATTTACCGAT
101746 T C S TGGAGCATTGCAGATCAGCCGACTCCAACCGGGGGACATTGGAATTTACCGAT
101746 IS [GC] ACTCCAATCCCCAGCTGACTCCCGAGTGGTGGTCTTGCCCTCTGGAGCATTGCAGATCAGC[GC]GACTCCAACCGGGGGACATTGGAATTTACCGATGCTCAGCTCGAAATC CAGCCAGCTCAA DCC
101750 I A GTTTCACGGTGGAGCTGTGCTGGGTGT
101750 P C A ATGACGTGGCAGACCTCAGGTGAGCCCCY
101750 P A A CGCGCCGAGGATCAGGTGAGCCCCY
101750 T C A GGCTGGGGCTCACCTGAGCACCCAGCAGCAGCTCCACCGTGAAACCA
101750 T A A GGCTGGGGCTCACCTGATCACCCAGCAGCAGCTCCACCGTGAAACCA
101750 IS [CA] ATCTGCCATGTTGGAGGATGCAGCCGGTGGGCTGGTTCACGGTGGAGCTGTGCTGGGTG[CA]TCAGGTGAGCCCCAGCCTAAGCCTGCTGCCTGGGACACTCACCAGCT CCTGGAAGACTCT
101752 I S GTCTCCTTTAGATCTAGACCGTCACACACAA
101752 P G S ATGACGTGGCAGACCGTCTAAATCATGCCTTTAAAT
101752 P A S CGCGCCGAGGTGTCTAAATCATGCCTTTTAAACY
101752 T G S CACTGTTTAAAAGGCATGATTTAGACGTGTGTGTGACGGTCTGAGATCTAAAAGGAGACTT
101752 T A S CACTGTTTAAAAGGCATGATTTAGACATGTGTGTGACGGTCTGAGATCTAAAAGGAGACTT
101752 IS [GA] AATCACAGAACGGTATTTGCCAAGAAGAAAATCACACTGTTTAAAAGGCATGATTTAGAC[GA]TGTGTGTGACGGTCTGAGATCTAAAAGGAGACTTATTTATGCAAA GTCAGGGTGGATGTT
101755 I S AGCTCTCGGCAACGTCCAGAACACTTGGC
101755 P C S ATGACGTGGCAGACGCTGCCATGGCTY
101755 P A S CGCGCCGAGGTCCTGCCATGGCTCY
101755 T C S CGGAGAGCCATGGCAGGCCCAAGTGTCTCGGACGTTGCCGAGAGCTGC
101755 T A S CGGAGAGCCATGGCAGGACCAAGTGTCTGGACGTTGCCGAGAGCTGC
101755 IS [CA] CACACACTAAACAAGGAGGCCACACAAACCAGCGCTTCACACCCGGAGAGCCATGGCAGG[CA]CCAAGTGTCTCGGACGTTGCCGAGAGCTGCCTTCGGTGGAAGCGCTT CCATCTTTTAGGA
101757 I S TGCGATTCTGCGCGTCCACCTTCTCCAAT
101757 P C S ATGACGTGGCAGACGCTCTGCCAGCTATTTTGCY
101757 P G S CGCGCCGAGGCTCTGGCAGCTATTTTGCY
101757 T C S TAAAGCAAAATAGCTGCCAGACTTGGAGAAGGTGGAGCCCAGAATCGCACC
101757 T G S TAAAGCAAATAGCTGCCAGAGTTGGAGAAGGTGGAGCCCAGAATCGCACC
101757 IS [CG] TTTTGTACGGAAAAGAATGAGACGCTTACTGTCATCGGTTAAAGCAAAATAGCTGCCAGA[CG]TTGGAGAAGGTGGAGCGCAGAATCGCACCGCTCCCCTGGTCCAAGG GCGCGTCCTCCCTG
101760 I A GGATGAAGGCAGAGCTGAGAAGCCA
101760 P C A ATGACGTGGCAGACCGACTGTCTCATGGCAY
101760 P T A CGCGCCGAGGTGACTGTCTCATGGCAY
101760 T C A TCTGTGCCATGAGACAGTCGGGCTTCTCAGCTCTGCCTTCCATCCTT
101760 T T A TCTGTGCCATGAGACAGTCAGGCTTCTCAGCTCTGCCTTCCATCCTT
101760 IS [CT] AGTACTCAAGGCTTCAACAAACATGTTATTTAAAGGATGCAAGGCAGAGCTCAGAAGCC[CT]GACTGTCTCATGGCACAGACTTGTCGCTACTCCATGAAAGCAGAA GGCAGCTCAGGGGA
101761 I A GGGTTTCCATCGCTCCCCTGCACAGA
101761 P C A ATGACGTGGCAGACCGATGTGGCAATATCAACAY
101761 P T A CGCGCCGAGGTGATGTGGCAATATCAACAY
101761 T C A TCGGTGTTGATATTGCCACATCGCTGTGCAGGGGAGCGATGGAAACCCCA
101761 T T A TCGGTGTTGATATTGCCACATCACTGTGCAGGGGAGCGATGGAAACCCCA
101761 IS [CT] TGTCACCCCGGTCATGACTGGCAGCCTGGGGTGTGGGGTTTCCATCGCTCCCCTGCACAG[CT]GATGTGGCAATATCAACACCGAAAGAAAAATCACAATCGCCAACCG TAGACACCCGCC
101764 I S GCATCCCTTAACTTCTTTTCAAAATAAATCCTCAGTTGCTCCAGTTCC
101764 P C S ATGACGTGGCAGACGGACTCATGCTGGGTY
101764 P A S CGCGCCGAGGTGACTCATGCTGGGTTY
101764 T C S AAAAAACCCAGCATGAGTCCGAACTGGAGCAACTGAGGATTTATTTTGAAAAGAAGTTAAGGGATGCTG
101764 T A S AAAAAACCCAGCATGAGTCAGAACTGGAGCAACTGAGGATTTATTTTGAAAAGAAGTTAAGGGATGCTG
101764 IS [CA] CACCTCTCGTGTGGAAGATTTAGAACAGCTGAAGCAGCGAGAAAAAACCCAGCATGAGTC[CA]GAACTGGAGCAACTGAGGATTTATTTTGAAAAGAAGTTAAGGGAT GCTGAGAAAACTTAC KEN
101765 I S CCCCCTGCAGCCTCTGCTGTAACAGGT
101765 P C S ATGACGTGGCAGACGTTAGGTCTCTCTTGGTAAGTTY
101765 P T S CGCGCCGAGGATYAGCTCYTCTTGGTAAGTTTY
101765 T C S TGAGAAAACTTACCAAGAAGACCTAACCTGTTACAGCAGAGGCTGCAGGGGGCG
101765 T T S TGAGAAAACTTACCAAGAAGACCTAATCCTGTTACAGCAGAGGCTGCAGGGGGCG
101765 IS [CT] TGAGGATTTATTTTGAAAAGAAGTTAAGGGATGCTGAGAAAACTTACCAAGAAGACCTAA[CT]CCTGTTACAGCAGAGGCTGCAGGGGGCGAGGGAAGATGCTCTTCT GGACTCTGTGGAAGT KEN
101766 I A CAAGCTGATCCATTCTTCTTTATTGGATGAATATTTTGGCTCCCGT
101766 P G A ATGACGTGGCAGACGGGTGTTTCTCTCATGGY
101766 P A A CGCGCCGAGGAGGTGTTTCTCTCATGGTY
101766 T G A GGACACCATGAGAGAAACACCCCGGGAGCCAAATATTCATCCAATAAAGAAGAATGGATCAGCTTGGC
101766 T A A GGACACCATGAGAGAAACACCTCGGGAGCCAAATATTCATCCAATAAAGAAGAATGGATCAGCTTGGC
101766 IS [GA] GAATGGTCTATAGGCCAAGCTGATCCATTCTTCTTTATTGGATGAATATTTTGGCTCCCG[GA]GGTGTTTCTCTCATGGTGTCCAAATCCACTAAATAATGGCATTTACT GATATCAATCTGA
101767 I A GTGGCTGTCCGCAACAAGTCATCATTGTT
101767 P G A ATGACGTGGCAGACGATGTGCGATCTCTGCY



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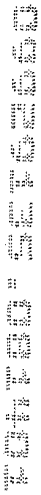
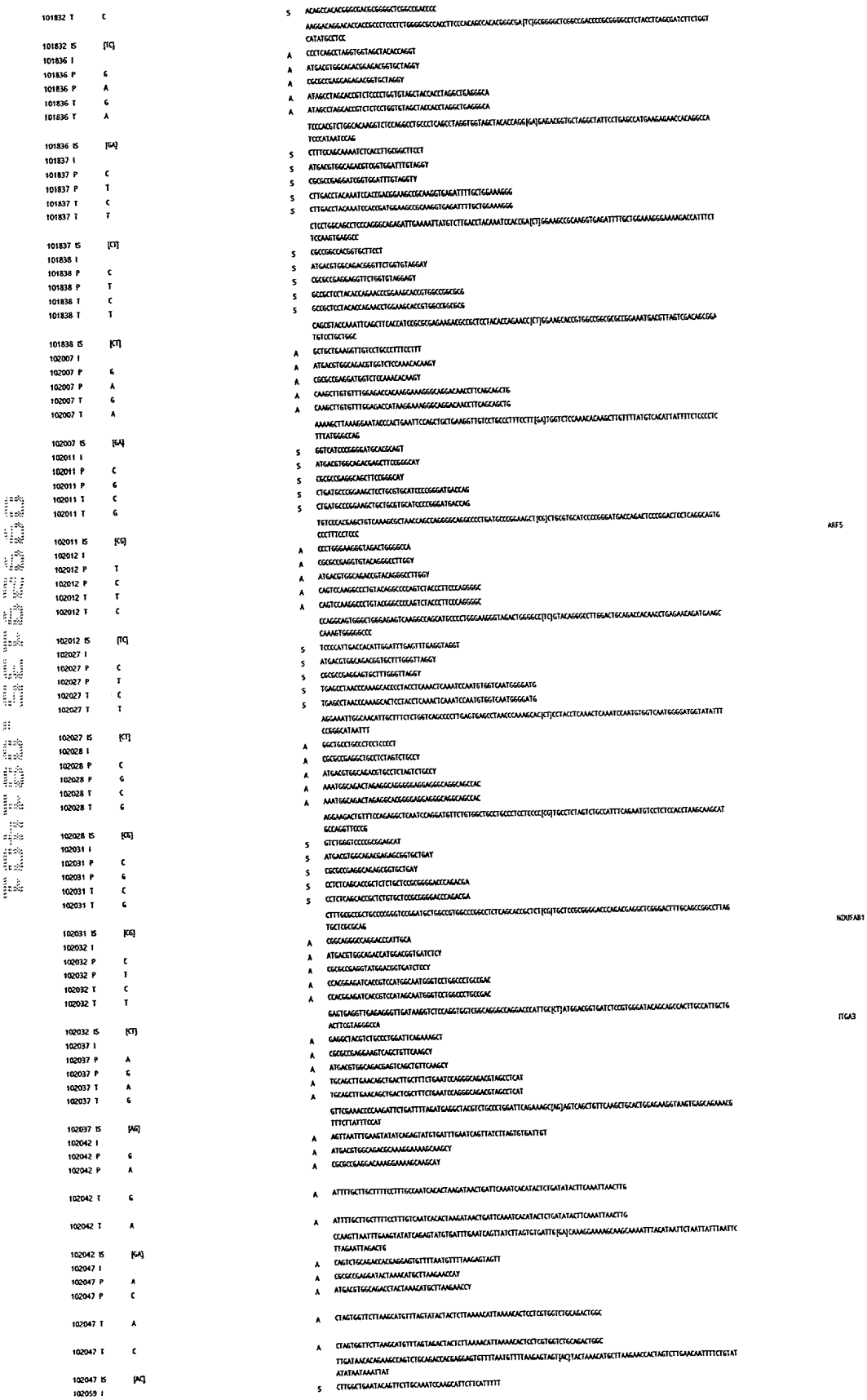


FIGURE 129C



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102059 P  G    S  ATGACGTGGCAGACCCAGAAGGCTATTCCCAY
102059 P  T    S  CGCGCCGAGGACAGAAGGCTATTCCCAY

102059 T  G    S  TAAATGGGAATAGCCTTCTGTAAAATGAAGAATGCTTGGATTTGCAAGAACTGTATTCAGCCAAGGC

102059 T  T    S  TAAATGGGAATAGCCTTCTGTAAAATGAAGAATGCTTGGATTTGCAAGAACTGTATTCAGCCAAGGC

102059 IS [GT]    CCATCAGACATCCCAGCAGGGAAGCCTGGACAGTCTGAATAAATGGGAATAGCCTTCTG[GT]AAAATGAAGAATGCTTGGATTTGCAAGAACTGTATTCAGCCAAGGC
                  TGGATTATCTGGAA
102068 I       A  GCCATCAGTCAGGAGGCCGTGCAGA
102068 P  T    A  CGCGCCGAGGTCCCAGATGGGCTCY
102068 P  C    A  ATGACGTGGCAGACCCCGAGATGGGCTCY
102068 T  T    A  AGACGAGCCCATCTCGGACTGCACGGCCTCCTGACTGATGGCAG
102068 T  C    A  AGACGAGCCCATCTCGGACTGCACGGCCTCCTGACTGATGGCAG

102068 IS [TC]    CAGCTCTGGCATAAGGACCCAGGTGTCCTCGAGCTGCCATCAGTCAGGAGGCCCTGCAG[TC]CCGAGATGGGCTCGTCTCGGGCAACCTGGATGGGGCGTGTGGGTGGG
                  CACGGGATGATGG
102071 I       S  TGCATTGCTACTCCAGCAGGTGAGTCAGTCAT
102071 P  T    S  CGCGCCGAGGATCACACATCACCTAGTAAAGY
102071 P  C    S  ATGACGTGGCAGACGTCACACATCACCTAGTAAAGY
102071 T  T    S  TTGGCTTTACTAGGTGATGTGTGATTGACTGACTCACCTGCTGGAGTAGCAATGCATT
102071 T  C    S  TTGGCTTTACTAGGTGATGTGTGACTGACTGACTCACCTGCTGGAGTAGCAATGCATT

102071 IS [TC]    TCTATTTTCTATTCGAAAAGAGAAACCAGCTGTGGGTTGGCTTTACTAGGTGATGTGTGA[TC]TGACTGACTCACCTGCTGGAGTAGCAATGCATTCTCACCTTTTGCTG
                  ATGGGGCCTTGTT
102078 I       S  ACGTGCTCAGTTTGTCAGATAGCTCTTTCCTACT
102078 P  T    S  CGCGCCGAGGATGGTGCGTATGGCTY
102078 P  G    S  ATGACGTGGCAGACCTGGTGGGTATGGCTY
102078 T  T    S  TATAAGCCATACGCACCATGTAGGAAAGAGCTATCTGACAAACTGAGCAGTTT
102078 T  G    S  TATAAGCCATACGCACCAGGTAGGAAAGAGCTATCTGACAAACTGAGCAGTTT

102078 IS [TG]    AATACAGAAAGGTATTGATTTTCTTTGCCATTATGAGGTCCTATAAGCCATACGCACCA[TG]GTAGGAAAGAGCTATCTGACAAACTGAGCAGTTTATATAAGACAG
                  AATAACTCTACTGT
102104 I       A  GCAAATACAGAAATGGTAAGTCCCACTCTATTTATATACCTACTCTTTAAAAA
102104 P  T    A  CGCGCCGAGGTAACTCCCCCCTACAATTCAY
102104 P  C    A  ATGACGTGGCAGACCAACTTCCCCCTACAATTCY

102104 T  T    A  GCCATGAATTGTAGGGGGAAGTTATTTTAAAGAGTAGGTATATAAATAGAGTGGGACTTACCATTTCTGTATTTGCTT

102104 T  C    A  GCCATGAATTGTAGGGGGAAGTTGTTTTAAAGAGTAGGTATATAAATAGAGTGGGACTTACCATTTCTGTATTTGCTT

102104 IS [TC]    CTTGTTAAGCAAATACAGAAAATGGTAAGTCCCACTCTATTTATATACCTACTCTTTAAAA[TC]AACTTCCCCCTACAATTCATGGCACATTTCAAGTAAAAAAGCAACT
                  TACCCTGACTGAG
102105 I       S  GGGTCCGGTTCACCAGCTGCAAGAGA
102105 P  G    S  ATGACGTGGCAGACCGCTAAGGACCGTACAY
102105 P  A    S  CGCGCCGAGGTGCTAAGGACCGTACAGY
102105 T  G    S  ATGGCTGTACGGTCCTTAGCGCTCTTGCAGCTGGTGAACCGGACCCCA
102105 T  A    S  ATGGCTGTACGGTCCTTAGCACTCTTGCAGCTGGTGAACCGGACCCCA

102105 IS [GA]    CTCGTGTTGCAGGATCAGGCACTGCTCCAGTGTCACCGACATGGCTGTACGGTCCTTAG[GA]CTCTTGCAGCTGGTGAACCGGACCCCATTAAGGCGGCGGCAGATCTGC
                  CAACAGAAACAT
102115 I       A  CACAACTTCGCTCAGGGCACACCTGCCTT
102115 P  C    A  CGCGCCGAGGCTGTGCATGTCTCATGGY
102115 P  G    A  ATGACGTGGCAGACGTGTGCATGTCTCATGGY
102115 T  C    A  CACACCATGAGACATGCACACAGAGCAGGTGTCCCTGAGCGAAGTTGTGCA
102115 T  G    A  CACACCATGAGACATGCACACAGAGCAGGTGTCCCTGAGCGAAGTTGTGCA

102115 IS [CG]    CAGGAGCTGACTGCCCCTAGGCCTAGATCTCTGCACAACTTGGCTCAGGGACACCTGCCT[CG]TGTCGCATGTCTCATGGTGTGAATGTGTTTCCTGCTCACAGGTACCGTT
                  TTGTGTCATGCA
102131 I       S  CAGGCAGGTTTGGAAGCTGAGGGTGTATTCTCA
102131 P  G    S  ATGACGTGGCAGACCTTCTAATTGTCTTTCGGATTY
102131 P  A    S  CGCGCCGAGGTTTCTTAATTGTCTTTCGCATTTY
102131 T  G    S  AAAAAAATGCGAAAGACAATTAAGAAAGAGAAATACACCCTCAGCTTCCAAACCTGCCTGGA
102131 T  A    S  AAAAAAATGCGAAAGACAATTAAGAAAGAGAAATACACCCTCAGCTTCCAAACCTGCCTGGA

102131 IS [AA]    AAAGCTTATTTCAGGGAATCAAAGGGGCAGCAAGAAAAAAATGCGAAAGACAATTAAGAAA[GA]GAGAAATACACCCTCAGCTTCCAAACCTGCCTGGATACCTACGTTG
                  AGAGTGTATCACAC
102134 I       A  CAAAGTCACCTGTGGACACAGGGCAAAAGCCATACT
102134 P  A    A  CGCGCCGAGGAGATTGGAGGTTAGGAGCY
102134 P  G    A  ATGACGTGGCAGACGGATTGGAGGTTAGGAGCY
102134 T  A    A  CTACGCTCCTAACCTCCAATCTGTATGGCTTTTCCCTGTGTCCACAGGTGACTTTGGC
102134 T  G    A  CTACGCTCCTAACCTCCAATCCGTATGGCTTTTCCCTGTGTCCACAGGTGACTTTGGC

102134 IS [AG]    TAGCGGAAGGCGAAGCCATAGCCTGCCAAGTCACTTGTGGACACAGGGAAAAGCCATAC[AG]GATTGGAGGTTAGGAGCGTAGAAGTCAGAGATTTCCATCGTGGGTG
                  CAAGTGACAACAA
102135 I       S  CGGCTGCCGCCGCAGCCT
102135 P  C    S  ATGACGTGGCAGACGTCCCTGGCCCTGY
102135 P  T    S  CGCGCCGAGGATCCCTGGCCCTGY
102135 T  C    S  CGTCCAGGGCCAGGGACCGGGTCCGCCGGCAGCCGTC
102135 T  T    S  CGTCCAGGGCCAGGGATGGGTCCGCCGGCAGCCGTC

102135 IS [CT]    CGGCACGTGGCTCAGCACCTGCACCAGCAGCTCCGGGGGCAGCGCGTCCAGGGCCAGGGA[CT]GGGTCCGCCGGCAGCCGTCGCCGCGATAGCGGGCGCCATCTCCAGC
                  AGCCAGAGTCCT
102147 I       A  GCGGCTCCAGGTTCCGCTGTA
102147 P  T    A  CGCGCTCGAGGTTCGGGAACCGTCGY
102147 P  C    A  ATGACGTGGCAGACCTCGGGAACCGTCGY
102147 T  T    A  GATACGACGGTTCCCGAAACAGCGGAACCTGCGGCCGCAG
102147 T  C    A  GATACGACGGTTCCCGACACAGCGGAACCTGCGGCCGCAG

102147 IS [TC]    AGCTGTCCTGCGGTCTACGTTCCCCCGAGGTGCTGGGACTGCGGCCGCAGGTTCCGCTGT[TC]TCGGGAACGTCGTATCCCTCGGTCCGGCGGCGGCGGCGGCGTAGCG
                  GAGGAGACGGTT
102151 I       S  TCCTGTTACTGATCAGGTGCTGTCCACCTGGA
102151 P  A    S  CGCGCCGAGGTCAAATTTGCTGGTTGTTTAAY
102151 P  G    S  ATGACGTGGCAGACCCAAATTTGCTGGTTGTTY
102151 T  A    S  CTAATTAAACAACAGCAAAATTTGACCAGGTGGACAGCACCTGATCAGTAACAGGAAA
102151 T  G    S  CTAATTAAACAACAGCAAAATTTGGCCAGGTGGACAGCACCTGATCAGTAACAGGAAA

102151 IS [AG]    AACACCTCTTGACTTAAAGAGAGAAACAGCAACACTAATTAAACAACAGCAGCAAAATTTG[AG]CCAGGTGGACAGCACCTGATCAGTAACAGGAAAAGACCACCTACT
                  CTGTGTTCTAACAA
102157 I       A  GGCGCGGCCTCTGGCTGCTA
102157 P  C    A  ATGACGTGGCAGACCTGGGTGAGTAGGTCY
102157 P  T    A  CGCGCCGAGGTCTGGGTGAGTAGGTCY
102157 T  C    A  CCTGGACCTACTCACCCAGGAAGCAGCCAGAGGCCGCCCGC
102157 T  T    A  CCTGGACCTACTCACCCAGAAGCAGCCAGAGGCCGCCCGC

102157 IS [CT]    ACCGCTGTGCACCATGGCCCGGGCCCTGTGCCCCCTCCCCGCGGCGCGGCCTCTGGCTGCT[CT]CTGGGTGAGTAGGTCCAGGGGTCCCGGCCCGAGCTCCCTTCCCCTGGCCA
                  GCCGGTGTCCT
102163 I       S  ACAAATCTGACTTTACCCAGCCCTTTCACCTGAGACTAAT
102163 P  C    S  ATGACGTGGCAGACGCATTTGGGTTGCAAATAGY
102163 P  T    S  CGCGCCGAGGACATTTGGGTTGCAAATAGY
102163 T  C    S  AAACCTATTTGCAACCCAAATGCTTAGTCTCAGGTGAAAGGGCTGGGTAAAGTCAGATTTGTTT
102163 T  T    S  AAACCTATTTGCAACCCAAATGTTTAGTCTCAGGTGAAAGGGCTGGGTAAAGTCAGATTTGTTT
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FIGURE 129C

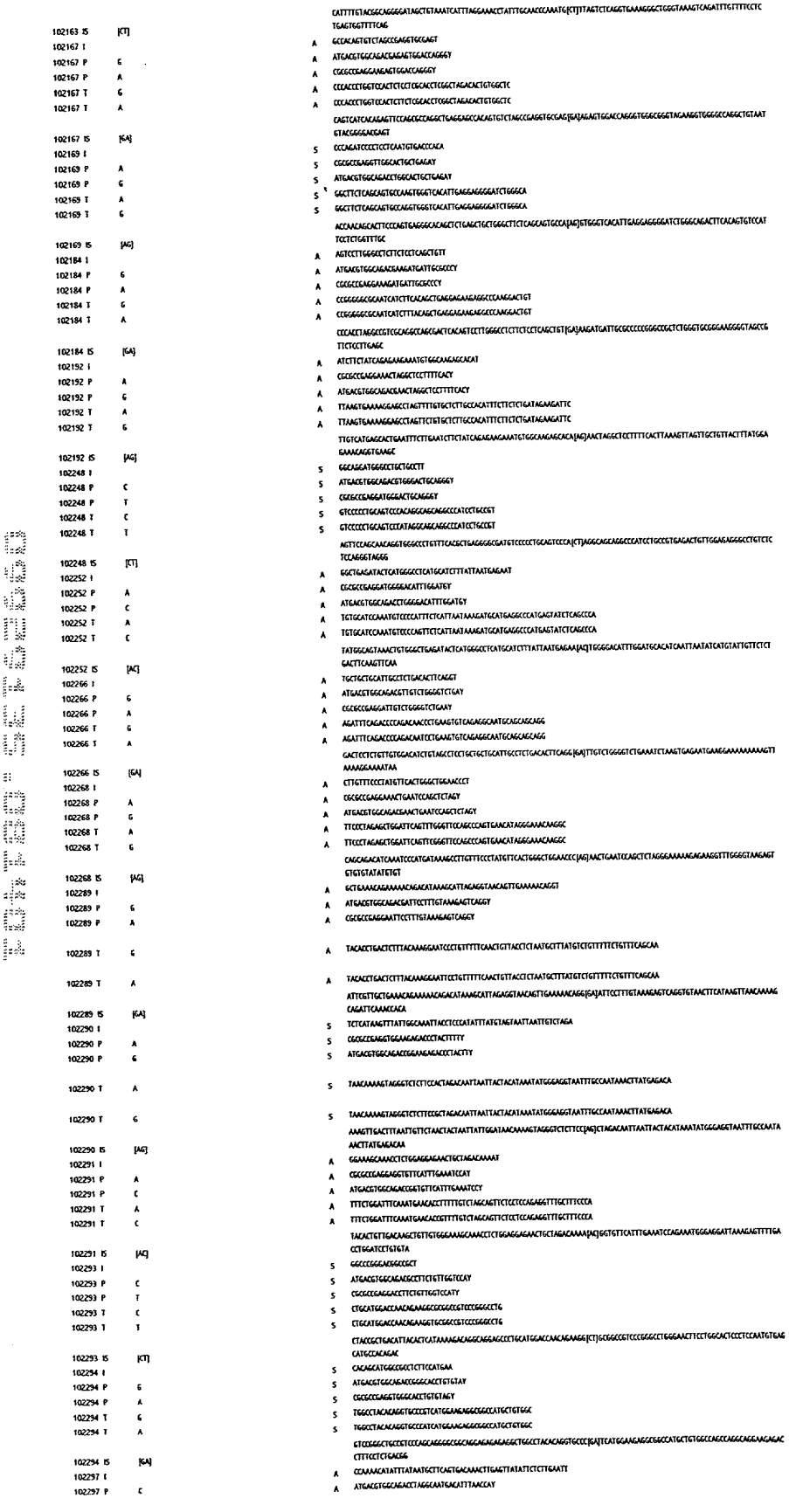


FIGURE 129C

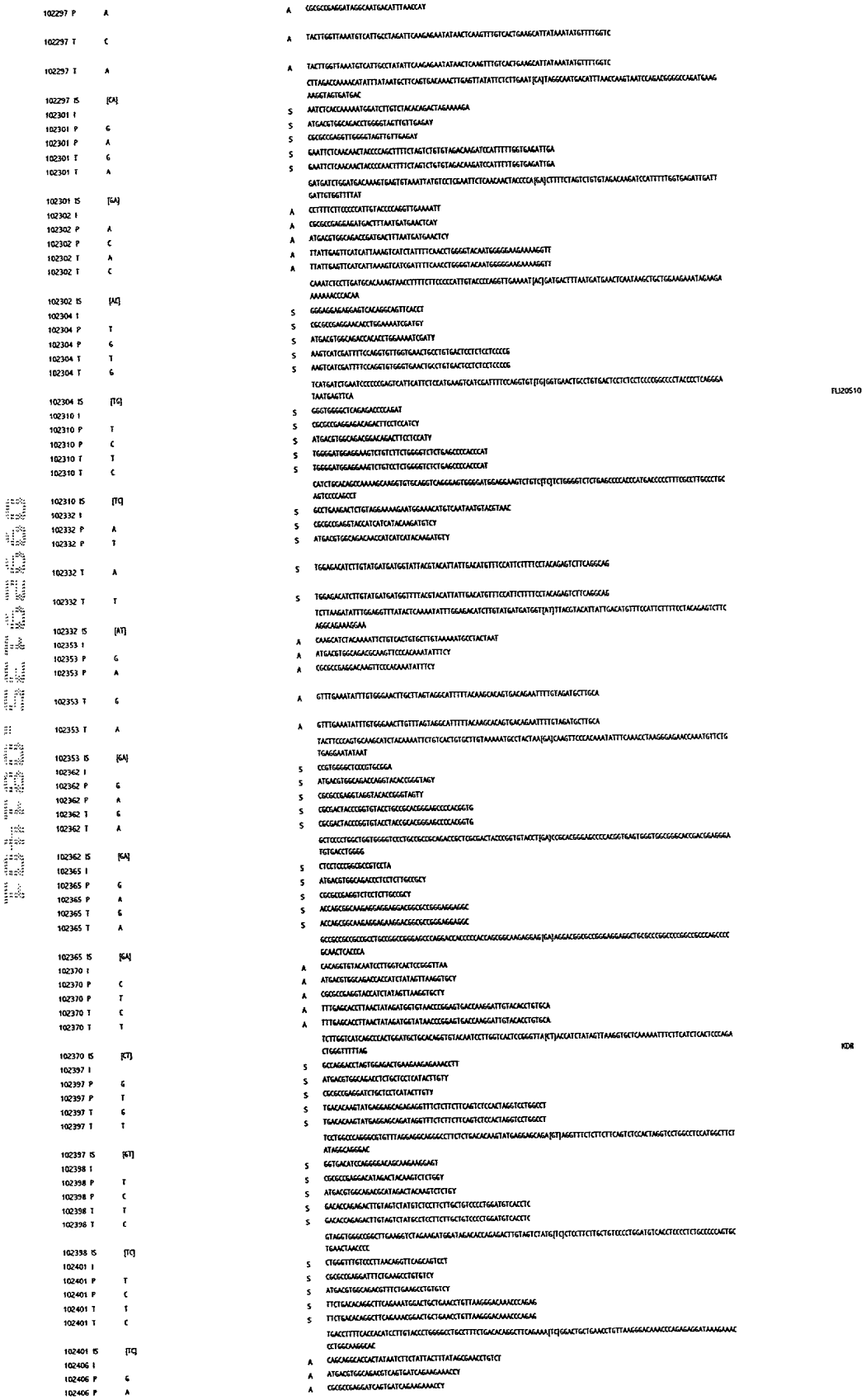


FIGURE 129C

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102406 T   G   A   TAAAGGTTTCTTCTGATCACTGACGACAGGTTCGCTATAAAGTAATAGAAAGATTATAGTGGTGCCTGCTGCC

102406 T   A   A   TAAAGGTTTCTTCTGATCACTGATGACAGGTTCGCTATAAAGTAATAGAAAGATTATAGTGGTGCCTGCTGCC

                   CTTTATTCAGAGGGCAGCAGGCACACTATAATCTTCTATTACTTTATAGCGAACCTGTC[GA]TCAGTGATCAGAAGAAACCTTTAAATATTCACCCATGATATCTGAGT
102406 IS  [GA]   TTTAAGTCTGAAT
102407 I           A   AGCTATGGTTGTTCCTAAAGCTAATCCCAAGGCAAACAAT
102407 P   G       A   ATGACGTGGCAGACGGTGGTAGCAAATGCAY
102407 P   A       A   CGCGCCGAGGAGTGGTAGCAAATGCAGY
102407 T   G       A   TTAGCTGCATTTGCTACCACCTTGTTTGCCTTGGGATTAGCTTTAGGAACAACCATAGCTGT
102407 T   A       A   TTAGCTGCATTTGCTACCACTTTGTTTGCCTTGGGATTAGCTTTAGGAACAACCATAGCTGT

                   GATAAAAAACACATCCCAACAGCTATGGTTGCTCCTAAAGCTAATCCCAAGGCAAACAAGA]GTGGTAGCAAATGCAGCTAATCCAAATGGAACAATTGGAAGAGGAT
102407 IS  [GA]   CTCTCCGGGCTGCA                                                                                              FLI21952
102408 I           A   CTCTTATTTGAGCTAAAATATTTTTAAATAAGTTTTCTGGTAAGAGCAGCATCT
102408 P   A       A   CGCGCCGAGGACTTTCCCAATTACCCAGY
102408 P   G       A   ATGACGTGGCAGACGCTTTCCCAATTACCCAGY

102408 T   R       A   ACTTCTGGGTAATTGGGAAAGTGATGCTGCTCTTACCAGAAAACTTATTTAAAAATATTTTAGCTCAAATAAGAGGA

102408 T   G       A   ACTTCTGGGTAATTGGGAAAGCGATGCTGCTCTTACCAGAAAACTTATTTAAAAATATTTTAGCTCAAATAAGAGGA

                   TCCAGTCCTCTTATTTCAGCTAAAATATTTTTAAATAAGTTTCTGGTAAGAGCAGCAT[AG]CTTTCCCAATTACCCAGAAGTCCTTTTAAATTTTTCTTCCTTGTGCTC
102408 IS  [AG]   CACCTAAATTCA
102409 I           A   GCAGCAATACTAGAAAAACCTCTATGAAATAGATTTTGACCCCA
102409 P   T       A   CGCGCCGAGGTCAACAAGGACTACTTACACY
102409 P   C       A   ATGACGTGGCAGACCCAACAAGCACTACTTACAY

102409 T   T       A   TTCTGTGTAAGTAGTCCTTTGTTGAGGGGTCAAAATCTATTTCATAGAGGTTTTTCTAGTATTGCTGCAT

102409 T   C       A   TTCTGTGTAAGTAGTCCTTTGTTGGGGGGTCAAAATCTATTTCATAGAGGTTTTTCTAGTATTGCTGCAT

                   AAGTCCTATTCTAACATGCAGCAATACTAGAAAAAGCCTCTATGAAATAGATTTTGACCCCT[C]CAACAAAGGACTACTTACACAGAAGACTAATTTTTTAACATGTCACA
102409 IS  [TC]   ATTGCCTTGGAAA
102412 I           S   GCTTTCCAGTCTGGCTGCAAATGTGAGCACTT
102412 P   T       S   CGCGCCGAGGAAACTGTGGACACTAAAGGY
102412 P   C       S   ATGACGTGGCAGACGAACTGTGGACACTAAAGGY
102412 T   T       S   CTTTCCTTTAGTGTCCACAGTTTAGTGCTCACATTTGCAGCCAGACTGGAAAGCTG
102412 T   C       S   CTTTCCTTTAGTGTCCACAGTTCAGTGCTCACATTTGCAGCCAGACTGGAAAGCTG

                   AACAGGTGCTCCACCAGATATGCCAACATGGTTTCATACTTTCCTTTAGTGTCCACAGTT[TC]AGTGCTCACATTTGCAGCCAGACTGGAAAGCTGGACTGAGATGCAAC
102412 IS  [TC]   CCAGAACACCAAC
102415 I           A   CCTGGAAATAAGTGATTTTCATAAGATTTTTGCTAGTGTAAATTTTTTTTTTCCCA
102415 P   T       A   CGCGCCGAGGTAGGGAAAGGATGATCTCCY
102415 P   C       A   ATGACGTGGCAGACCAGGGAAAGGATGATCTCY

102415 T   T       A   CTTAGGAGATCATCCTTTCCCTAGGGAAAAAAAAAAATTTACACTAGCAAAAATCTTATGAAAATCACTTATTTCCAGGAT

102415 T   C       A   CTTAGGAGATCATCCTTTCCCTGGGGAAAAAAAAAAATTTACACTAGCAAAAATCTTATGAAAATCACTTATTTCCAGGAT

                   AAGATCCTGCAAATAAGTGATTTTCATAAGATTTTTGCTAGTGTAAATTTTTTTTTTCCC[TC]AGGGAAAGGATGATCTCCTAAGTCTTCTTCATGTATGTACTACTAGC
102415 IS  [TC]   TTTGCTGTAAAGT
102425 I           A   GCAGCACATTCGAGGCGGGCCAA
102425 P   T       A   ATGACGTGGCAGACCGGTGGTGGTCCGY
102425 P   C       A   CGCGCCGAGGTGGTGGTGGTCCGY
102425 T   C       A   CATCCGGACCACCACCGTGGCCCGCCTCGAATGTGCTGCCA
102425 T   T       A   CATCCGGACCACCACCACGTGGCCCGCCTCGAATGTGCTGCCA

                   CCTTCTGCCAGGCAATCTGAGGGTTTGGGTGACCTGTGGCAGGACATTCGAGGCGGGCCA[CT]GGTGGTGGTCCGGATGGTTATGTCGTGGGGCGTTTTGGTGAATGAT
102425 IS  [CT]   GGCAACACTGGAAA
102428 I           A   GCAGCCCAGCACACACACACACACACT
102428 P   C       A   ATGACGTGGCAGACCCCCACACATGCATGY
102428 P   A       A   CGCGCCGAGGACCCACACATGCATGY
102428 T   T       A   GGTGCATGCATGTGTGGGGGTGTGTGTGTGTGTGTGCTGGGCTGCTT
102428 T   A       A   GGTGCATGCATGTGTGGGTGTGTGTGTGTGTGTGTGCTGGGCTGCTT

                   TTAAAAAGAGCAGCCTGGCCAAAGAATAAAGAAAGGAGCCCAGCACACACACACACACACACA[CA]CCCACACATGCATGCACCATCCCCCCCTACACACCCCTCCCACATGC
102428 IS  [CA]   ACATGTGTGTGC
102429 I           S   CCATCTGATCAACTGCAGAACACAGAAGGAAATGCAT
102429 P   C       S   ATGACGTGGCAGACGGTTAGTACTGGCACATCY
102429 P   G       S   CGCGCCGAGGCGTTAGTACTGGCACATCY
102429 T   C       S   TCCAGATGTGCCAGTACTAACCTGCATTTCCTTCTGTGTTCTGCAGTTGATCAGATGGGA
102429 T   G       S   TCCAGATGTGCCAGTACTAACGTGCATTTCCTTCTGTGTTCTGCAGTTGATCAGATGGGA

                   CATGATTTGATTCCCTTGATAAATATTTTAAAGGCTTTGTCCAGATGTGCCAGTACTAAC[CG]TGCATTTCCTTCTGTGTTCTGCAGTTGATCAGATGGGAAGATGGTTT
102429 IS  [CG]   GTTGCTGGAGGGG
102457 I           S   CCAGCATAATGTTTTATAATGAAAGCAGGCTCCATCAEC
102457 P   C       S   ATGACGTGGCAGACGGCTGGAAATTCGATGTAAT
102457 P   A       S   CGCGCCGAGGTGCTGGAAATTCGATGTAAY
102457 T   C       S   ATTCTTACATCGAATTTCCAGCCGTGATGGAGCCTGCTTTCATTATAAAACATTATGCTGGAA
102457 T   A       S   ATTCTTACATCGAATTTCCAGCAGTGATGGAGCCTGCTTTCATTATAAAACATTATGCTGGAA

                   AACATTGCTAGACAAGTTTAAGCATCAACATGAAGATAATTCTTACATCGAATTTCCAGC[CA]GTGATGGAGCCTGCTTTCATTATAAAACATTATGCTGGAAAAGTAA
102457 IS  [CA]   AATATGGGGTAAAG                                                                                              MYOSA
102485 I           A   TGGGGCGAGACACAGGGGCCT
102485 P   A       A   CGCGCCGAGGAGCGCTAGAGGCAGY
102485 P   G       A   ATGACGTGGCAGACGGCGCTAGAGGCAT
102485 T   A       A   ACCCCTGCCTCTAGCGCTGGCCCCTGTGCTCGCCCCAGG
102485 T   G       A   ACCCCTGCCTCTAGGCCCGGCCCCTGTGCTCGCCCCAGG

                   ACTGGCTGCTGCTTTGAAATAGTCACACTGGGCTGAGTCCCTGGGGCGAGCACAGGGGCC[AG]GCGCTAGAGGCAGGGGTACCTGCCAGCCAGCCTTTCATGGAAGGGG
102485 IS  [AG]   GCCCCAGCAGTGC
102592 I           S   TGCTTCACCCAAATATATAGGTTTCTTAATTTTGAAAGAAAATTCAGACTTTA
102592 P   G       S   ATGACGTGGCAGACCCATCATGAGGTCTCATACY
102592 P   A       S   CGCGCCCAGGTCATCATGAGGTCTCATACTY

102592 T   G       S   CATAAGTATGAGACCTCATGATGGAAAGTCTGAATTTTCTTTCAAAATTAAGAAACCTATATATTTGGGTGAAGCATA

102592 T   A       S   CATAAGTATGAGAACCTCATGATGAAAAGTCTGAATTTTCTTTCAAAATTAAGAAACCTATATATTTGGGTGAAGCATA

                   AACCCACTAGGAAACACTTCTAGAGATAAAGAGTGTTTCATAAGTATGAGACCTCATGATG[GA]AAAGTCTGAATTTTCTTTCAAAATTAAGAAACCTATATATTTGGGT
102592 IS  [GA]   GAAGCATAATGCAA
102638 I           S   GTGGATTTGTTGTTGCTGTCGTTGCTGAAACTAGTGAAAGT
102638 P   T       S   CGCGCCGAGGAATCGAGTTTTGTGCTATGAT
102638 P   C       S   ATGACGTGGCAGACGATCGAGTTTTGTGCTATGAY
102638 T   T       S   TGACTCATAGCACAAACTCGATTCTTTCACTAGTTTCAGCAACGACAGCAACACAAATCCACTT
102638 T   C       S   TGACTCATAGCACAAACTCGATCCTTTCACTAGTTTCAGCAACGACAGCAACACAAATCCACTT

                   GTCCTCTCCACTTCTAAATACTCAGGTTTTGCTCCCATTGACTCATAGCAACAAAACTCGAT[TC]CTTTCACTAGTTTCAGCAACGACAGCAACACAAATCCACTTAATGTA
102638 IS  [TC]   AATAATTCGCTA
64401 I            A   CTGCTATGATATGAAAATAATGTCTGTATTATTTTGCTAAAATGGGTGTAAATCC
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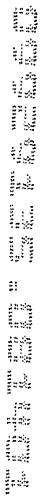
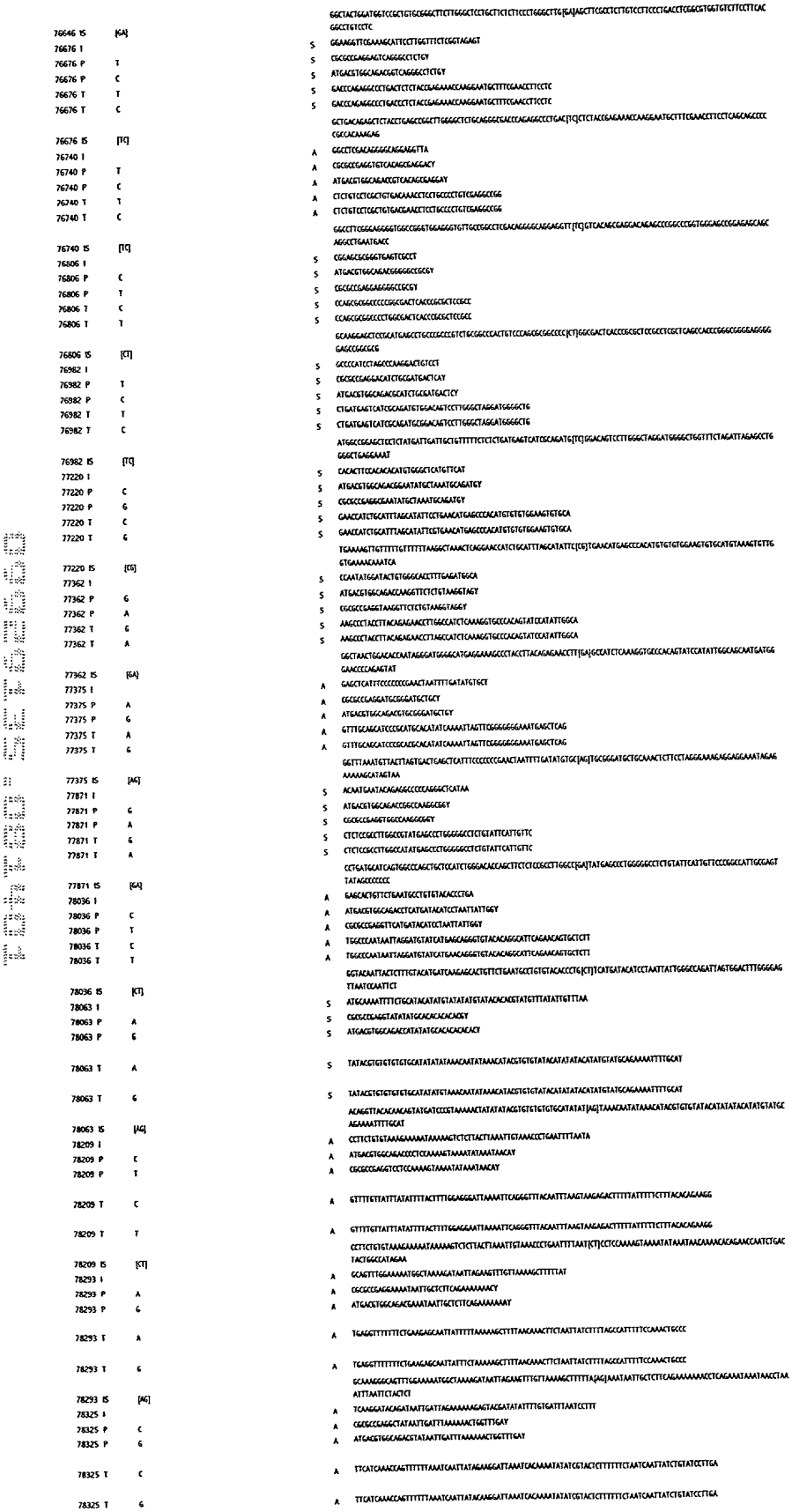
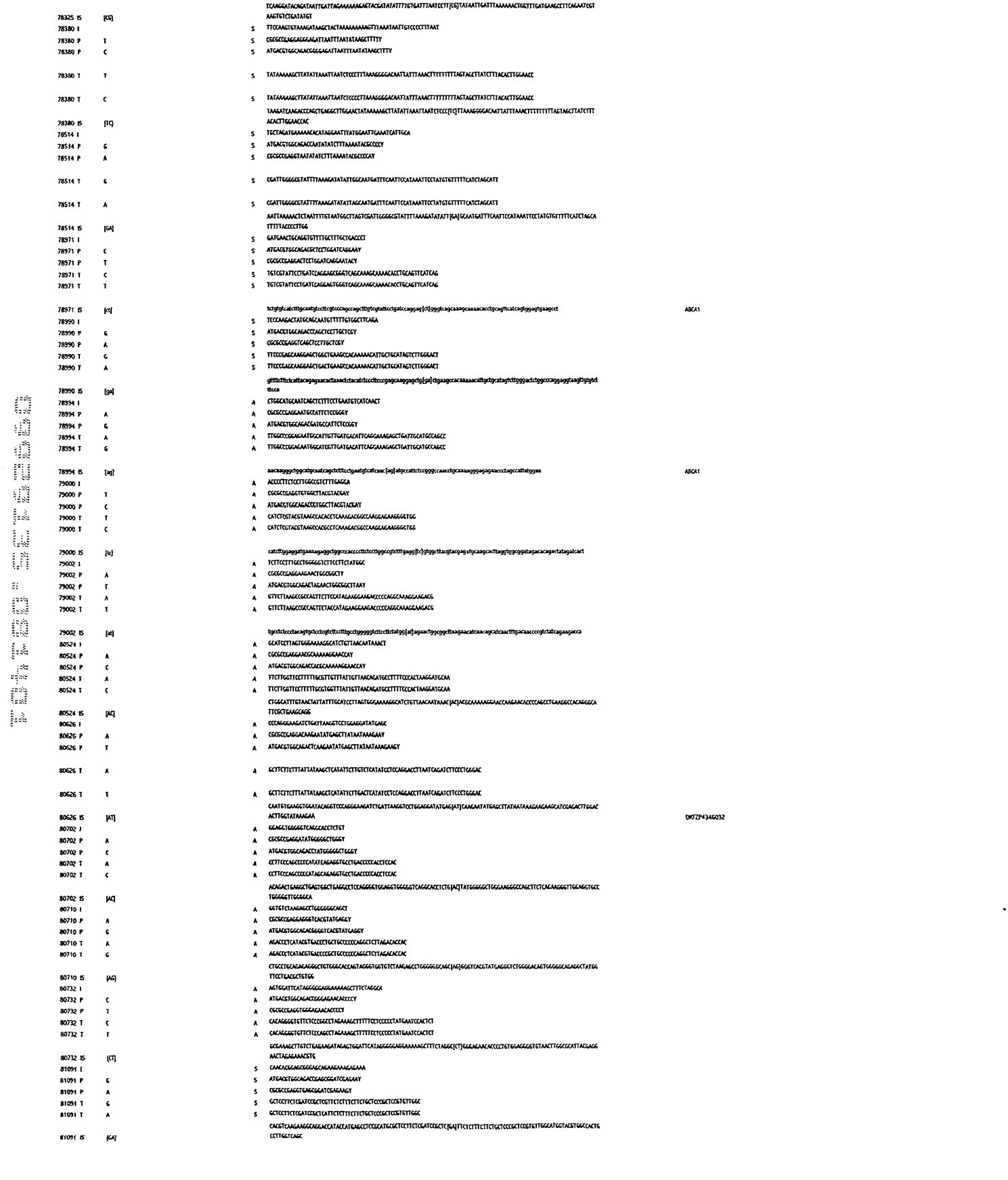


FIGURE 129C





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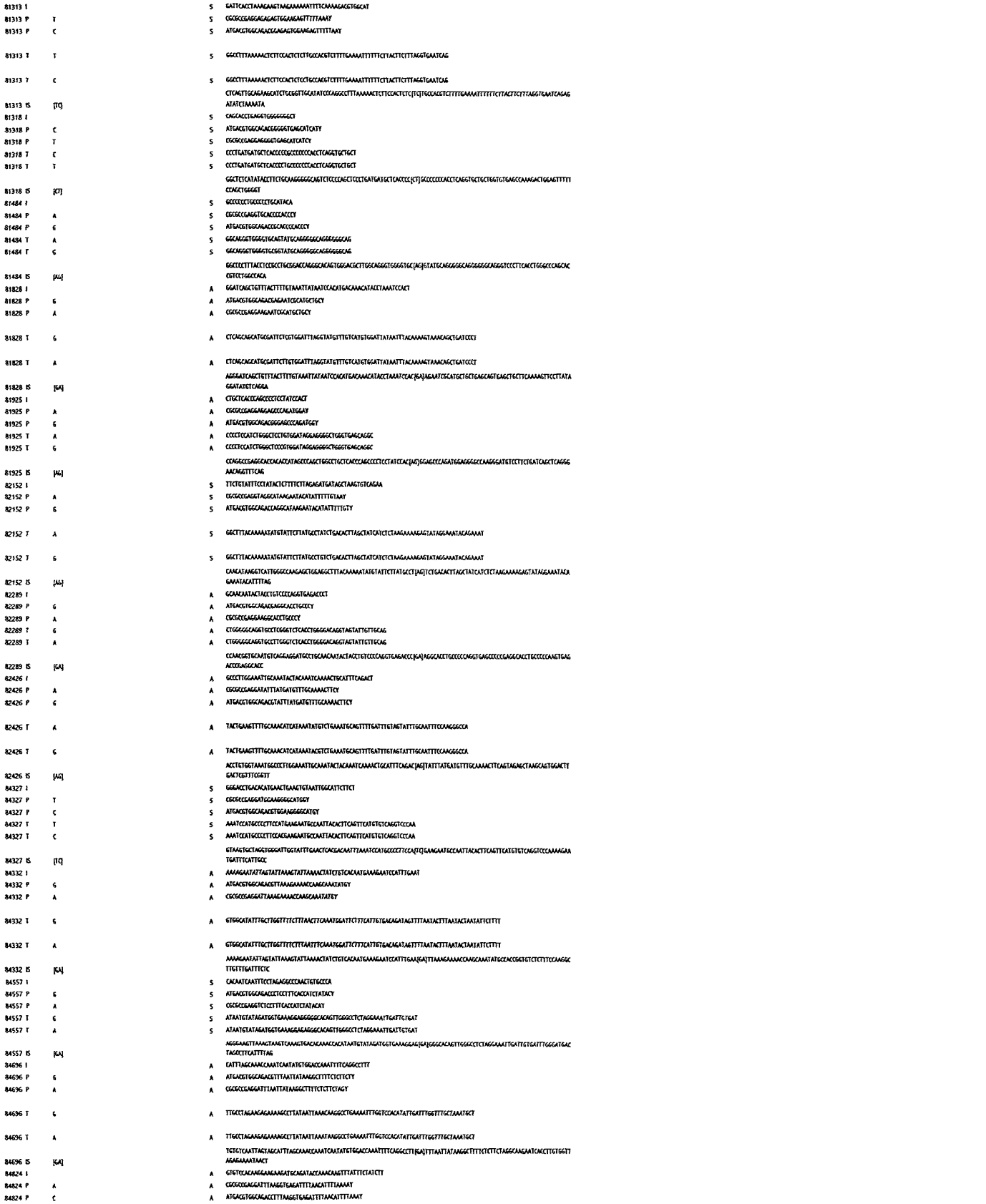


FIGURE 129C

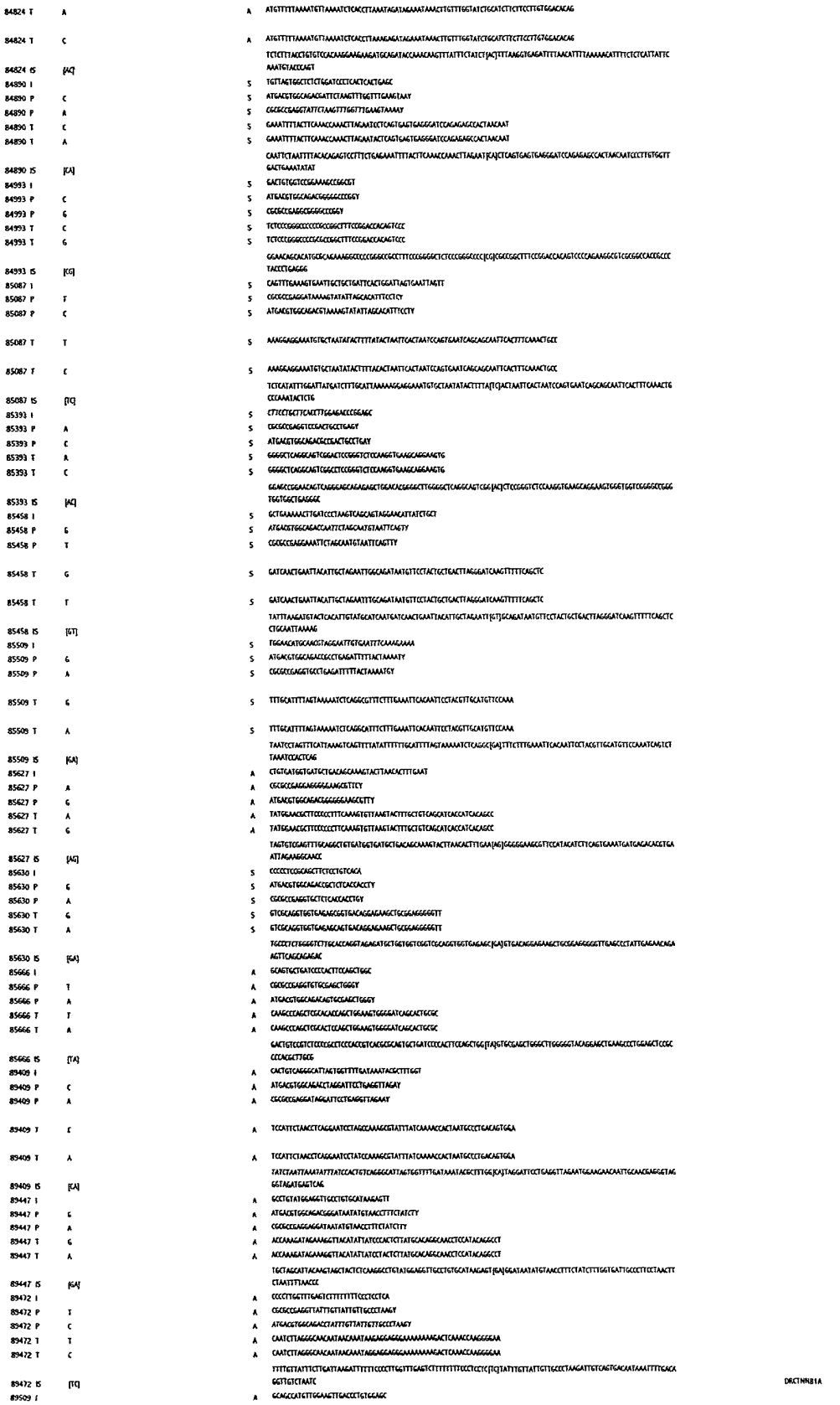
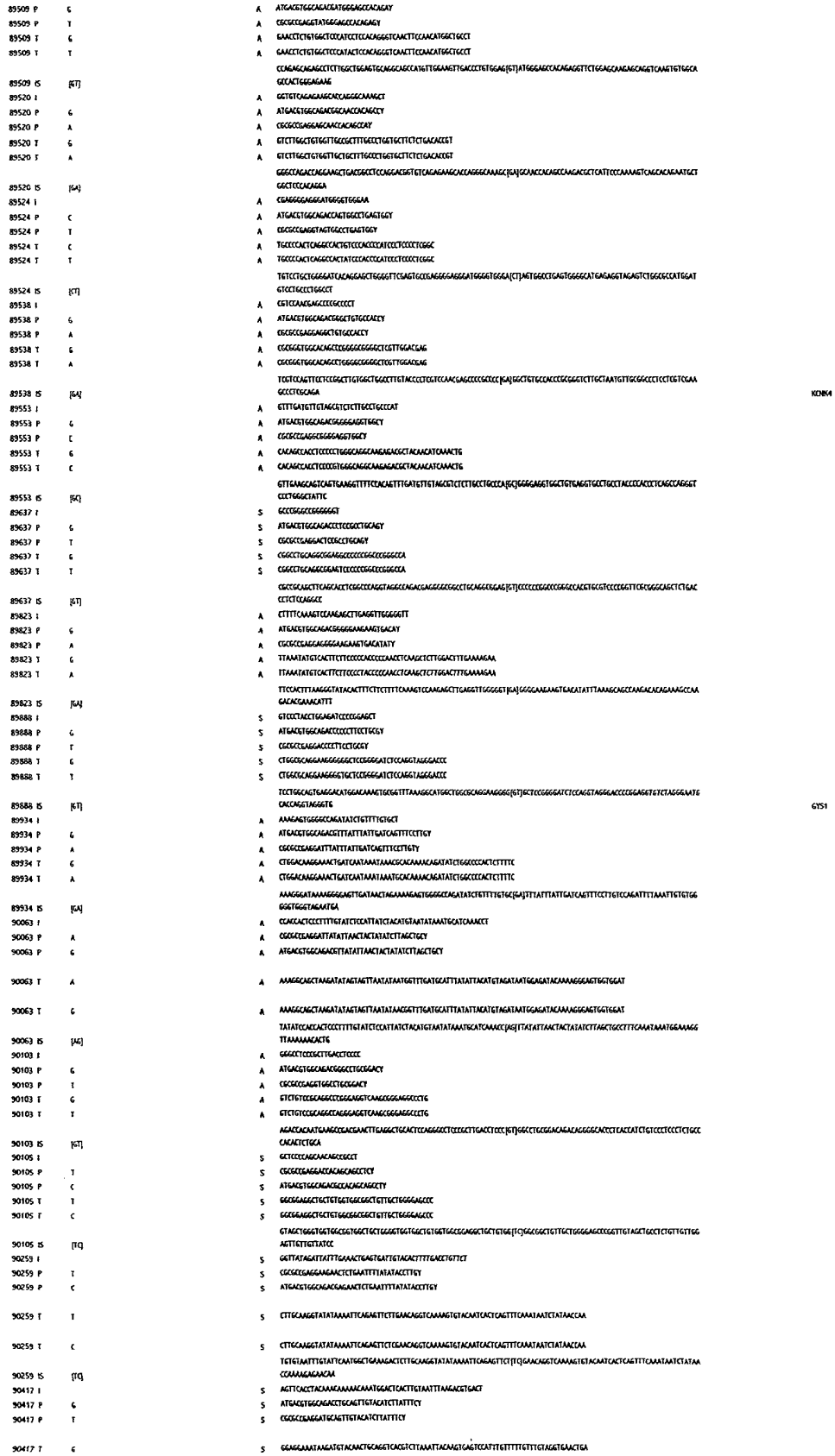


FIGURE 129C


89509 P G A ATGACGTGGCAGACGATGGGAGCCACAGAY
89509 P T A CGCGCCCAGGTATGGCAGCCCACAGAGY
89509 T G A GAACCTCTGTGGCTCCCATCCTCCCACAGGGTCAACTTCCAACATGGCTGCCT
89509 T T A GAACCTCTGTGGCTCCCATACTCCCACAGGGTCAACTTCCAACATGGCTGCCT
CCAGAGCAGCAGCCTCTTGGCTGGAGTGCAGGCAGCCATGTTGGAAGTTGACCCTGTGGAG[GT]ATGGGAGCCACAGAGGTTCTGGAGCAAGAGCAGGTCAAGTGTGGCA
89509 IS [GT] GCCACTGGGAGAAG
89520 I A GGTGTCAGAGAAGCACCAGGGCAAAGCT
89520 P G A ATGACGTGGCAGACGGCAACCACAGCCY
89520 P A A CGCGCCCAGGAGCAACCACAGCCAY
89520 T G A GTCTTGGCTGTGGTTGCCGCTTTGCCCTGGTGCTTCTCTGACACCGT
89520 T A A GTCTTGGCTGTGGTTGCTGCTTTGCCCTGGTGCTTCTCTGACACCGT
GGGCCAGACCAGGAAGCTGACGGCCTCCAGGACGGTGTCAGAGAAGCACCAGGGCAAAGC[GA]GCAACCACAGCCAAGACGCTCATTCCCAAAAGTCAGCACAGAATGCT
89520 IS [GA] GGCTCCCACAGGA
89524 I A CGAGGGGAGGGATGGGGTGGGAA
89524 P C A ATGACCTGGCAGACCAGTGGCCTGAGTGGY
89524 P T A CGCGCCGAGGTAGTGGCCTGAGTGGY
89524 T C A TGCCCCACTCAGGCCACTGTCCCACCCCATCCCTCCCCTCGGC
89524 T T A TGCCCCACTCAGGCCACTATCCCACCCCATCCCTCCCCTCGGC
TGTCCTGCTGGGGGATCACAGGAGCTGGGGTTCGAGTGCCCAGGGCAGGGGATGGGGTGGGA[CT]AGTGGCCTGAGTGGGGCATGAGAGGTAGAGTCTGGCCCCATGGAT
89524 IS [CT] GTCCTGCCCTGGCCT
89538 I A CGTCCAACGAGCCCCGCCCCT
89538 P G A ATGACGTGGCAGACGGGCTGTGCCACCY
89538 P A A CGCGCCGAGGAGGCTGTGCCACCY
89538 T G A CGCGGGTGGCACAGCCCGGGGCGGGGCTCGTTGGACGAG
89538 T A A CGCGGGTGGCACAGCCTGGGGCGGGGCTCGTTGGACGAG
TGGTCCAGTTCCTCCGGCTTGTGGCTGGCCTTGTACCCCTCGTCCAACGAGCCCCGCCC[GA]GGCTGTGCCACCCGCGGGTCTTGCTAATGTTGCGGCCCTCCTGGTCGAA
89538 IS [GA] GCCCTCGCAGA KCNK4
89553 I A GTTTGATGTTGTAGCGTCTCCTTGCCTGCCCAT
89553 P G A ATGACGTGGCAGACGGGGGAGGTGGCY
89553 P C A CGCGCCGAGGCGGGGAGGTGGCY
89553 T G A CACAGCCACCTCCCCGTGGGCAGGCAAGAGACGCTACAACATCAAACTG
89553 T C A CACAGCCACCTCCCCGTGGGCAGGCAAGAGACGCTACAACATCAAACTG
GTTGAAGCAGTCAGTGAAGGTTTTCCACAGTTTGATGTGTAGCGTCTCTTGCCTGCCCA[GC]GGGGAGGTGGCTGTGAGGTGCCTGCCTACCCCACCCTCAGCCAGGGT
89553 IS [GC] CCCTGGGCTATTC
89637 I S GCCCGGGCCGGGGGGT
89637 P G S ATGACGTGGCAGACCCCCGCCTGCAGY
89637 P T S CGCGCCCAGGACTCCGCCTGCAGY
89637 T G S CGGCCTGCAGGCGGAGGCCCCCCGCCCCGGGCCA
89637 T T S CGGCCTGCAGGCGGAGTCCCCCCGGCCCGGGCCA
CGCCGCAGCTTCAGCACCTCGGCCCAGGTAGGCCAGACGAGGGCCGCCTGCAGGCGGAG[GT]CCCCCCGGCCCGGCCACCTGCGTCCCCGGTTCCCGGGCAGCTCTGAC
89637 IS [GT] CCTCTCCAGGCC
89823 I A CTTTTCAAAGTCCAAGAGCTTGAGGTTGGGGGTT
89823 P G A ATGACGTGGCAGACGGGGGAAGAAGTGACAY
89823 P A A CGCGCCCAGGAGAGGGAAGAAGTGACATATY
89823 T G A TTAAATATGTCACTTCTTCCCCCACCCCCAACCTCAAGCTCTTGGACTTTGAAAGAA
89823 T A A TTAAATATGTCACTTCTTCCCCTACCCCCAACCTCAAGCTCTTGGACTTTGAAAGAA
TTCCACTTTAAGGGTATACACTTTCTTCTTTTCAAAGTCCAAGAGCTTGAGGTTGGGGGT[GA]GGGGAAGAAGTGACATATTTAAAGCAGCCAAGACACAGAAAGCCAA
89823 IS [GA] GACACGAAACATTT
89888 I S GTCCCTACCTGGAGATCCCCCGAGCT
89888 P G S ATGACGTGGCAGACCCCCCTTCCTGCGY
89888 P T S CGCGCCCAGGACCCCTTCCTGCGY
89888 T G S CTGGCGCAGGAAGGGGGGCTCCGGGGATCTCCAGGTAGGGACCC
89888 T T S CTGGCGCAGGAAGGGGTGCTCCGGGGATCTCCAGGTAGGGACCC
TCCTGGCAGTGAGGACATGGACAAAGTGGCGTTTAAAGGCATGGCTGGCGCAGGAAGGGG[GT]GCTCCCGGGGATCTCCAGGTAGGGACCCCGGAGGTGTCTAGGGAATG
89888 IS [GT] CACCAGGTAGGGTG GYS1
89934 I A AAAGAGTGGGGCCAGATATCTGTTTTGTGCT
89934 P G A ATGACGTGGCAGACGTTTATTTATTGATCAGTTTCCTTGY
89934 P A A CGGGCCGAGGATTTATTTATTGATCAGTTTCCTTGY
89934 T G A CTGGACAAGGAAACTGATCAATAAATAAATGCACAAAACAGATATCTGGCCCCACTCTTTTC
89934 T A A CTGGACAAGGAAACTGATCAATAAATAAATGCACAAAACAGATATCTGGCCCCACTCTTTTC
AAAGGGATAAAAGGGGAGTTGATAACTAGAAAAGAGTGGGGGCAGATATCTGTTTTGTGC[GA]TTTATTTATTGATCAGTTTCCTTGTCCAGATTTTAAATTGTGTGG
89934 IS [GA] GGGTGGGTAGAATGA
90063 I A CCACCACTCCCTTTTGTATCTCCATTATCTACATGTAATATAAATGCATCAAACCT
90063 P A A CGGGCCGAGGATTATATTAACTACTATATCTTAGCTGCY
90063 P G A ATGACGTGGCAGACGTTATATTAACTACTATATCTTAGCTGCY
90063 T A A AAAGGCAGCTAAGATATAGTAGTTAATATAATAATGGTTTGATGCATTTATATTACATGTAGATAATGGAGATACAAAAGGGAGTGGTGGAT
90063 T G A AAAGGCAGCTAAGATATAGTAGTTAATATAACGGTTTGATGCATTTATATTACATGTAGATAATGGAGATACAAAAGGGAGTGGTGGAT
90063 IS [AG] TATATCCACCACTCCCTTTTGTATCTCCATTATCTACATGTAATATAAATGCATCAAACC[AG]TTATATTAACTACTATATCTTAGCTGCCTTTCAAATAAATGGAAAGG TTAAAAAACACTG
90103 I A GGGCCTCCCGCTTGACCTCCCC
90103 P G A ATGACGTGGCAGACGGGCCTGCGGACY
90103 P T A CGCGCCGAGGTGGCCTGCGGACY
90103 T G A GTCTGTCCGCAGGCCTGGGAGGTCAAGCGGGAGGCCCTG
90103 T T A GTCTGTCCGCAGGCCAGGGAGGTCAAGCGGGAGGCCCTG
AGACCACAATGAAGCCACAGAACTTGAGGCTGCACTCCAGGGCCTCCCGCTTGACCTCCC[GT]GGCCTGCGGACAGACAGGGGCACCCTCACCATCTGTCCCTCCCTCTGCC
90103 IS [GT] CACACTCTGCA
90105 I S GCTCCCCAGCAACAGCCGCCT
90105 P T S CGCGCCGAGGAACCACAGCAGCCTCY
90105 P C S ATGACGTGGCAGACGCCACAGCAGCCTY
90105 T T S GGGCGAGGCTGCTGTGGTGGCGGCTGTTGCTGGGGAGCCC
90105 T C S GGCGAGGCTGCTGTGGCGGCGGCTGTTGCTGGGGAGCCC
GTAGCTGGGTGGTGGCGGTGGCTGCTGGGGTGGTGGCTGTGGTGGCGGAGGCTGCTGTGG[TC]GGCGGCTGTTGCTGGGGAGCCCGGTTGTAGCTGCCTCTGTTGTGG
90105 IS [TC] AGTTGTTGCTATCC
90259 I S GGTTATAGATTATTTGAAACTGAGTGATTGTACACTTTTGACCTGTTCT
90259 P T S CGCGCCGAGGAAGAACTCTGAATTTTATATACCTTGY
90259 P C S ATGACGTGGCAGACGAGAACTCTGAATTTTATATACCTTGY
90259 T T S CTTGCAAGGTATATAAAATTCAGAGTTCTTGAACAGGTCAAAAGTGTACAATCACTCAGTTTCAAATAATCTATAACCAA
90259 T C S CTTGCAAGGTATATAAAATTCAGAGTTCTCGAACAGGTCAAAAGTGTACAATCACTCAGTTTCAAATAATCTATAACCAA
TGTGTAATTTGTATTCAATGGCTGAAAGACTCTTGCAAGGTATATAAAATTCAGAGTTCT[TC]GAACAGGTCAAAAGTGTACAATCACTCAGTTTCAAATAATCTATAA CCAAAAGAGAACAA
90417 I S AGTTCACCTACAAACAAAAACAAATGGACTCACTTGTAATTTAAGACGTGACT
90417 P G S ATGACGTGGCAGACCTGCAGTTGTACATCTTATTTCY
90417 P T S CGCGCCGAGGATGCAGTTGTACATCTTATTTCY
90417 T G S GGAGCAAATAAGATGTACAACTGCAGGTCACGTCTTAAATTACAAGTGAGTCCATTTGTTTTTGTTTGTAGGTGAACTGA

90417	T	T	S	GGAGGAAATAAGATGTACAACTGCATGTCACGTCTTAAATTACAAGTGAGTCCATTTGTTTTGTTTGTAGGTGAACTGA
90417	IS	[GT]		TGAATACTCAGACTAAGTAATTGAAAGACAAAAGGGGAGGAAATAAGATGTACAACTGCA[GT]GTCACGTCTTAAATTACAAGTGAGTCCATTTGTTTTGTTTGTAG GTGAACTGAAAACGT
90430	I		A	GCAGCCCCGTCAGGTGGCCTA
90430	P	C	A	ATGACGTGGCAGACCGCTGCCCCCY
90430	P	T	A	CGCGCCGAGGTGCCTGCCCCCAY
90430	T	C	A	TGGCTGGGGGCAGGCCAGGCCACCTGACGGGGCTGCTT
90430	T	T	A	TGGCTGGGGGCAGGCCAAGGCCACCTGACGGGGCTGCTT
90430	IS	[CT]		GCCGCTCACATAGTCTGGGAGGTGCAGTGGAAGTCAGGAAGCAGCCCCGTCAGGTGGCCT[CT]GCCTGCCCCCAGCCACCCCACCCCCGTTGGGATGTGGTGTGCGCTCAC CCAGGATGAGGT
90433	I		A	TTGTCACAAATTATTTTTCCTTTTTTCTTCATAATAGAATCTAAATCCTTAAGCTAACATT
90433	P	G	A	ATGACGTGGCAGACGAGGCAGTTAAATACAGTACAY
90433	P	C	A	CGCGCCGAGGCAGGCAGTTAAATACAGTACAY
90433	T	G	A	ATATTGTACTGTATTTAACTGCCTGATGTTAGCTTAAGGATTTAGATTCTATTATGAAGAAAAAAGGAAAAATAATTTGTGACAA
90433	T	C	A	ATATTGTACTGTATTTAACTGCCTGATGTTAGCTTAAGGATTTAGATTCTATTATGAAGAAAAAAGGAAAAATAATTTGTGACAA
90433	IS	[GC]		TTGTCACAAATTATTTTTCCTTTTTTCTTCATAATAGAATCTAAATCCTTAAGCTAACAT[GC]AGGCAGTTAAATACAGTACAATATTCTTTTATTAAGAAATAAGTAG AAATGTAACCATA
90499	I		S	CCAGTGCACAATGATCCTCTAAATCTGAGAAGTCTGTAAATAGACTTCTT
90499	P	C	S	ATGACGTGGCAGACGTTTAATAGGTGAGGGAGTTTY
90499	P	T	S	CGCGCCGAGGATTTAATAGGTGAGGGAGTTTCY
90499	T	C	S	CTCAGAAACTCCCTCACCTATTAAACAGAAGTCTATTTACAGACTTCTCAGATTTAGAGGATCATTGTGCACTGGAA
90499	T	T	S	CTCAGAAACTCCCTCACCTATTAAATAGAAGTCTATTTACAGACTTCTCAGATTTAGAGGATCATTGTGCACTGGAA
90499	IS	[CT]		GCCCCCTGGTGTCTGAAAGCAGCATCTCCTCCCACTCAGAAACTCCCTCACCTATTAAA[CT]AGAAGTCTATTTACAGACTTCTCAGATTTAGAGGATCATTGTGCACTG GAAGAACCAAA
90571	I		S	CCCGACCGGATCCTAGCGCAATGACGA
90571	P	G	S	ATGACGTGGCAGACCGACCCCACCGCY
90571	P	A	S	CGCGCCGAGGTGACCCCACCGCY
90571	T	G	S	CCCTGCGGGTGGGGGTCGCGTCATTGCGCTAGGATCCGGCTCGGGGC
90571	T	A	S	CCCTGCGGGTGGGGGTCACGTCATTGCGCTAGGATCCGGCTCGGGGC
90571	IS	[GA]		TGAGCTGGGGTCCTGCGCGCAGGGCTCGGGTCGGCCGGGTCAGTGCCCTGCGGTGGGGTC[GA]CGTCATTGCGCTAGGATCCGGTCGGGGCCCGGCGGCCTGTGCGCCCG GGTCCAGTCGGGC
90662	I		A	GGCAAACTTCCAAATTTTAAAAGGTAAGAATATCTGAAGGGATTATGAATATTACT
90662	P	G	A	ATGACGTGGCAGACGTCCTGTAAGATAAGAGATGTTTY
90662	P	A	A	CGCGCCGAGGATCCTGTAAGATAAGAGATGTTTTY
90662	T	G	A	ATGAAAAACATCTCTTATCTTACAGGACGTAATATTCATAATCCCTTCAGATATTCTTACCTTTTAAAATTTGGAAGTTTGCCAA
90662	T	A	A	ATGAAAAACATCTCTTATCTTACAGGATGTAATATTCATAATCCCTTCAGATATTCTTACCTTTTAAAATTTGGAAGTTTGCCAA
90662	IS	[GA]		GACTTTGGCAAACTTCCAAATTTTAAAAGGTAAGAATATCTGAAGGGATTATGAATATTAC[GA]TCCTGTAAGATAAGAGATGTTTTCATCACTGACAGCAGCATCATA ATAGCTAACATCAT
90709	I		A	GGACAGCCAGGGAAAATTCTTGCCTGGTCTT
90709	P	A	A	CGCGCCGAGGACACTATTAGGTTGTCATGATATATAY
90709	P	G	A	ATGACGTGGCAGACGCACTATTAGGTTGTCATGAY
90709	T	A	A	CATTTATATATCATGACAACCTAATAGTGTAGACCAGGCAAGAATTTTCCCTGGCTGTCCAT
90709	T	G	A	CATTTATATATCATGACAACCTAATAGTGCAGACCAGGCAAGAATTTTCCCTGGCTGTCCAT
90709	IS	[AG]		TGGCAAGTGATCAAAGGTGGAGTTTGGAATGGACAGCCAGGGAAAATTCTTGCCTGGTCT[AG]CACTATTAGGTTGTCATGATATATAAATGAGATAGTATATATAAG GCATTTTTGAAAGAT
90763	I		S	GGGGGCCTTGGCCGAGGGTT
90763	P	C	S	ATGACGTGGCAGACGGGGGGAAGGAGGAY
90763	P	G	S	CGCGCCGAGGCGGGGGAAGGAGGY
90763	T	C	S	CTACTGCTCCTTCCCCCACCCTCGGCCAAGGCCCCCA
90763	T	G	S	CTACTCCTCCTTCCCCCGACCCTCGGCCAAGGCCCCCA
90763	IS	[CG]		AGCAGCAAGGGCCTTTCACCATCTCTCTGAGGACCCCTGGAGCCTACTCCTCCTTCCCCC[CG]ACCCTCGGCCAAGGCCCCCCACCCAGGGATACCAGTTTAGCTCACCAAA CTCCGAATCTT
90765	I		A	GCGCGTCCCGCACAGGTAGGTACT
90765	P	A	A	CGCGCCGAGGACGGACCTTGGATGCY
90765	P	G	A	ATGACGTGGCAGACGCGACCTTGGATGY
90765	T	A	A	TGAGGCATCCAAGGTCCGTGTACCTACCTGTGCCGGACGCGCCT
90765	T	G	A	TGAGGCATCCAAGGTCCGCGTACCTACCTGTGCCGGACGCGCCT
90765	IS	[AG]		CATGGGAATAATGTTACAGCCCCTCCCTCAGCCACAGGCGCGTCCCGCACAGGTAGGTAC[AG]CGGACCTTGGATGCCTCAGATACCCTATTTGTGGGTACAGATGACAC AGAGACCCAGCCT
90775	I		S	CAGCCTGTGGGAGGCAGACACTGCC
90775	P	C	S	ATGACGTGGCAGCAGCCTGGGGCCACTY
90775	P	A	S	CGCGCCGAGGTCTGGGGCCACTGAY
90775	T	C	S	TGGGTCAGTGGCCCCAGGCGCAGTGTCTGCCTCCCACAGGCTGCC
90775	T	A	S	TGGGTCAGTGGCCCCAGAGCAGTGTCTGCCTCCCACAGGCTGCC
90775	IS	[CA]		TCACCCCCTCCCCTGGCCCTGGGCAGAGGGAGAACCTGGGCCCTGGGTCAGTGGCCCCAG[CA]GCAGTGTCTGCCTCCCACAGGCTGCCACACCCTGTACCTGAGCTCAGTG AGCGTGGAGAC
90945	I		S	AGCTGAAGATTCTCTGCTCATACAGGTGCGCTT
90945	P	T	S	CGCGCCGAGGAGCCCACGACCCCTY
90945	P	C	S	ATGACGTGGCAGACGCCCACGACCCTY
90945	T	T	S	GCCCAGGGTCGTGGGCTAGCGCACCTGTATGAGCAGAGAATCTTCAGCTGG
90945	T	C	S	GCCCAGGGTCGTGGGCCAGCGCACCTGTATGAGCAGAGAATCTTCAGCTGG
90945	IS	[TC]		TCGGGCATGAACTGAGGTCACCTTGCCACCTGCCCCCACCTCTAGCCCAGGGTCGTGGGC[TC]AGCGCACCTGTATGAGCAGAGAATCTTCAGCTGGTCGGGGCCGAGGCC GGGGCCTGGGT
90952	I		S	AGCCTGATAACCACTCACCCCCTACAGAAGCT
90952	P	T	S	CGCGCCGAGGAGAATGGGATGATGGAGCY
90952	P	C	S	ATGACGTGGCAGACGGAATGGGATGATGGAGY
90952	T	T	S	TCAGGCTCCATCATCCCATTCTGCTTCTGTAGGGGGTGAGTGGTTATCAGGCTTG
90952	T	C	S	TCAGGCTCCATCATCCCATTCCGCTTCTGTAGGGGGTGAGTGGTTATCAGGCTTG
90952	IS	[TC]		AGGTCATAGCCATGGAGATGAGGCAAGCTCGGAAGTCATCAGGCTCCATCATCCCATTC[TC]GCTTCTGTAGGGGGTGAGTGGTTATCAGGCTTGGTCTCCAGCCTCCA CCAGCCCCAAGT
90956	I		S	GAAATTAATTTTGATAAGAAATAAAACATGCCTTGAGACAAGTAAAACCTGACT
90956	P	C	S	ATGACGTGGCAGACGGCGTGGAGTGTTACAY
90956	P	T	S	CGCGCCGAGGAGCGTGGAGTGTTACAY
90956	T	C	S	GTTTTGTAACACTCCACGCCGTCAGGTTTTACTTGTCTCAAGGCATGTTTTATTTCTTATCAAAATTAATTTCTG
90956	T	T	S	GTTTTGTAACACTCCACGCTGTCAGGTTTTACTTGTCTCAAGGCATGTTTTATTTCTTATCAAAATTAATTTCTG
90956	IS	[CT]		GTGGCAAAAGCTTCAATTCTCAGATCTGTTATTGCCAGTGAGTTTTGTAACACTCCACGC[CT]GTCAGGTTTTACTTGTCTCAAGGCATGTTTTATTTCTTATCAAAATT AATTTCTGTTCAT
90963	I		A	CTTGGGTCCACTTGGCTAATTGAATCTAATGGCCAT
90963	P	G	A	ATGACGTGGCAGACGACCTATTCAATATTTAAAAATCATCCY
90963	P	A	A	CGCGCCGAGGAACCTATTCAATATTTAAAAATCATCCY

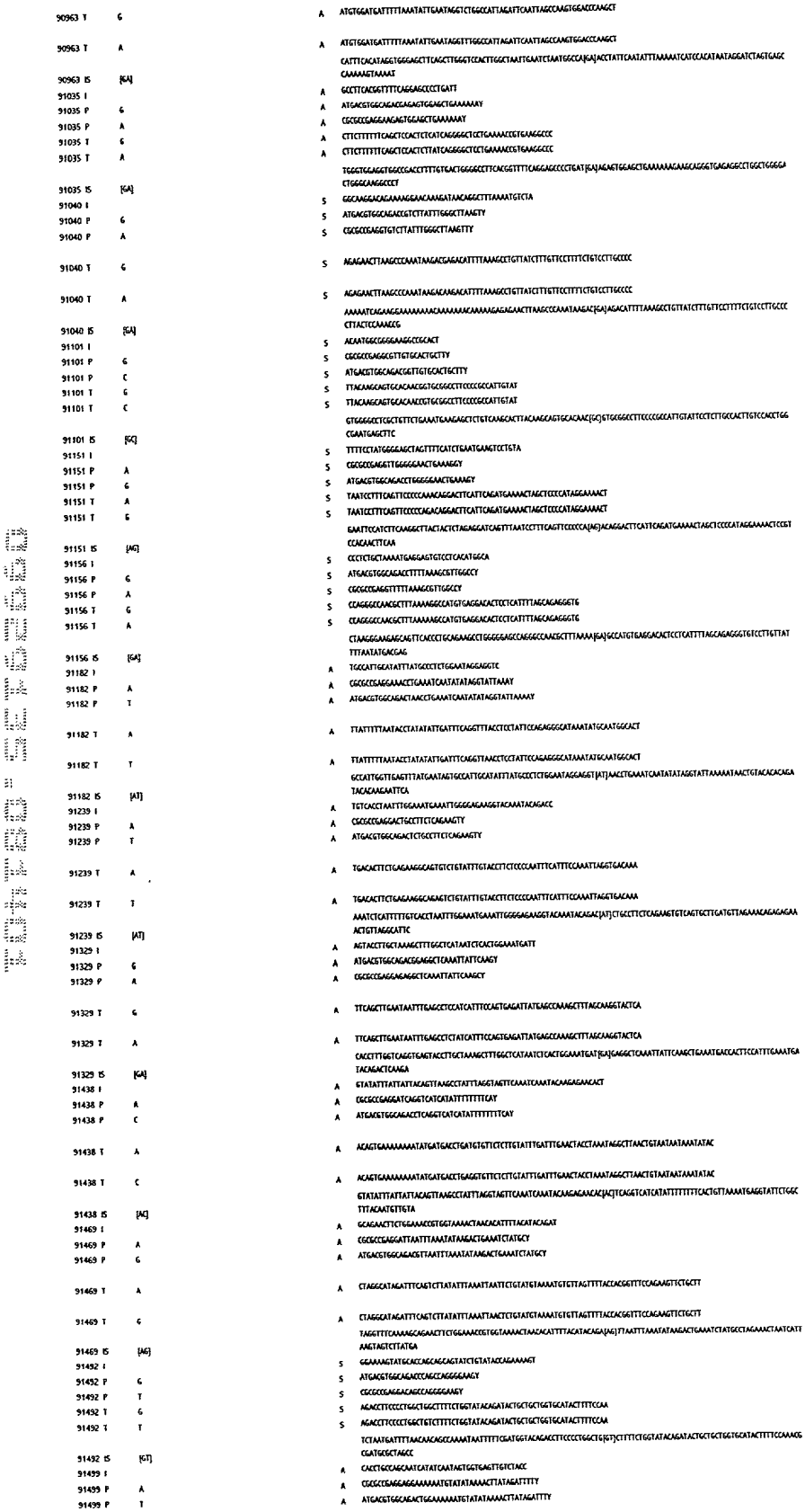


FIGURE 129C

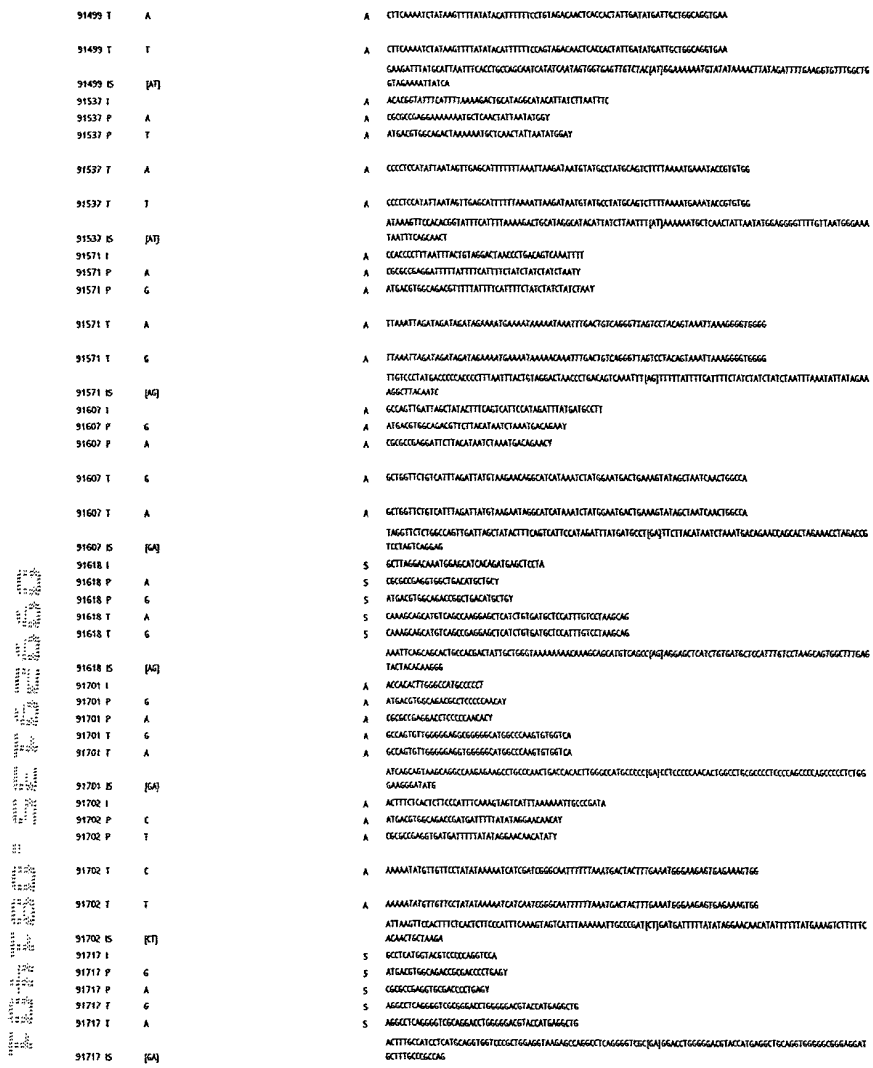


FIGURE 129C

91812 P	G	S	CGCGCCGAGGCGCAGGTTGTGGTGY		
91812 T	C	S	GTTCCACCACAACCTGCCTCCACCTTGCAAGGCAAGGTTTTCCAACAGCC		
91812 T	G	S	GTTCCACCACAACCTGCGTCCACCTTGCAAGGCAAGGTTTTCCAACAGCC		
91812 IS	[CG]		GCATCCTCAGCTGCCGAGCCCCGAAGGTCCCAGACAACACCGTGTTCCACCACAACCTGC[CG]TCCACCTTGCAAGGCAAGGTTTTCCAACAGCCCTTGAGCCCCAAGGGCA GAGGCCACATC		
91976 I		S	CGCCCTGGGCTGAGGAGATTGGCA		
91976 P	A	S	CGCGCCGAGGTGCCTCTCCCAGCY		
91976 P	G	S	ATGACGTGGCAGACCGCCTCTCCCAGCY		
91976 T	A	S	GGGTGCTGGGAGAGGCAGCCAATCTCCTCAGCCCAGGGCGGG		
91976 T	G	S	GGGTGCTGGGAGAGGCGGCCAATCTCCTCAGCCCAGGGCGGG		
91976 IS	[AG]		CCCTGCAGAGCCCCCAGTGCCCCCAGCAAGGGGGCAGGAAGCCAGGGTGCTGGGAGAGGC[AG]GCCAATCTCCTCAGCCCAGGGCGGGAAGGTGATGGAGTCTTCTTGGG CTTTGTGGTTGGG		
92000 I		S	CAAATAACTGCTCATCTTCATCAGATTCAAACATATACTCCCCAGAGGT		
92000 P	C	S	ATGACGTGGCAGACGTCTGTGTGTCTGCACY		
92000 P	T	S	CGCGCCGAGGATCTGTGTGTCTGCACAY		
92000 T	C	S	AGTTTGTGCAGACACACAGACCCTCTGGGGAGTATATGTTTGAATCTGATGAAGATGAGCAGTTATTTGTG		
92000 T	T	S	AGTTTGTGCAGACACACAGATCCTCTGGGGAGTATATGTTTGAATCTGATGAAGATGAGCAGTTATTTGTG		
92000 IS	[CT]		CTTCCCCTTCATGCAGCAGACCATGTGTCAACGTATGCAGAGTTTGTGCAGACACACAGA[CT]CCTCTGGGGAGTATATGTTTGAATCTGATGAAGATGAGCAGTTATTT GTGCACCTGGACA		
92019 I		S	CGCAGCTTGGGGCCCCCCT		
92019 P	C	S	ATGACGTGGCAGACGCGCCAGCTGTCTY		
92019 P	T	S	CGCGCCGAGGACGCCAGCTGTCTCY		
92019 T	C	S	GGCTGAGACAGCTGGCGCGGGGGGCCCCAAGCTGCGCC		
92019 T	T	S	GGCTGAGACAGCTGGCGTGGGGGGCCCCAAGCTGCGCC		
92019 IS	[CT]		GTTGCTCTTGCTGACCCCTCGGAGCAAGCGCCGCACAGGTGGTGGCTGAGACAGCTGGCG[CT]GGGGGGCCCCAAGCTGCGCCGGCCTCCAGCCCACCCACAGCTGTTGCT GAAGTCAGGCCT	FLJ10737	
92056 I		A	CTGCCCTGTGCCTGATAGCTGGGCA		
92056 P	T	A	CGCGCCGAGGTACAGGCTTCCCCAGY		
92056 P	C	A	ATGACGTGGCAGACCACAGGCTTCCCCAY		
92056 T	T	A	TGCTCTGGGGAAGCCTGTAGCCCAGCTATCAGGCACAGGGCAGCA		
92056 T	C	A	TGCTCTGGGGAAGCCTGTGGCCCAGCTATCAGGCACAGGGCAGCA		
92056 IS	[TC]		TGTGGTGCTGAAATACCCTTCAGGCCTGGGCGTCTGCTGCCCTGTGCCTGATAGCTGGGC[TC]ACAGGCTTCCCCAGAGCACTCTGGGAATGTGGGGTGAAGCCTCTTTT GAGAAGCCCCGTC		
92083 I		S	CGATACACCCCAAAGTTAAAAGAGCTGTTCATGCATGAGTAGT		
92083 P	C	S	ATGACGTGGCAGACGGACTTCATGCCTTAAAGTY		
92083 P	G	S	CGCGCCGAGGCGACTTCATGCCTTAAAGTY		
92083 T	C	S	AGGGACTTTAAGGCATGAAGTCCCTACTCATGCATGAACAGCTCTTTTAACTTTGGGGTGTATCGTT		
92083 T	G	S	AGGGACTTTAAGGCATGAAGTCGCTACTCATGCATGAACAGCTCTTTTAACTTTGGGGTGTATCGTT		
92083 IS	[CG]		CCTTAAGATGAACATTACACCTACGGAGGCTTGAGAGCAGGGACTTTAAGGCATGAAGTC[CG]CTACTCATGCATGAACAGCTCTTTTAACTTTGGGGTGTATCGTTTTC AGGGTATTGCAGG		
92089 I		S	TCCCCAGTGGGACCGCGGTATCCT		
92089 P	C	S	ATGACGTGGCAGACGGGGGGTCCTCGAY		
92089 P	T	S	CGCGCCGAGGAGGGGGTCCTCGAY		
92089 T	C	S	GCGCTCGAGGACCCCCCGGATACCGCGGTCCCACTGGGGAGC		
92089 T	T	S	GCGCTCGAGGACCCCCTGGATACCGCGGTCCCACTGGGGAGC		
92089 IS	[CT]		CCCCCCTGGGCCCCCCAGGACCCCCCAGGCTCCATTGGTCACCCTGGCGCTCGAGGACCCCC[CT]GGATACCGCGGTCCCACTGGGGAGCTGGGAGACCCCGGGCCCAGAGGTG AGTGTTTGACC		
92166 I		S	GGCCGCAGCCGCAAACGCGC		
92166 P	A	S	CGCGCCGAGGTGGGGTGCAGGGY		
92166 P	T	S	ATGACGTGGCAGACAGGGGTGCAGGGY		
92166 T	A	S	GCGGCCCTGCACCCCACGCGTTTGCGGCTGCGGCCGG		
92166 T	T	S	GCGGCCCTGCACCCCTCGCGTTTGCGGCTGCGGCCGG		
92166 IS	[AT]		CGCTCGGTTCCTCAGCTCCTCTTCGTGTCTTTCCCCCGCGGTGGCGCGGCCCTGCACCCC[AT]CGCGTTTGCGGCTGCGGCCGGCGGCCGCTCTGCTGGGCTCCGGGCGCTG CAGCTCCCGGC		
92218 I		A	GGGCGAGGCTGCAGCTGCCAT		
92218 P	G	A	ATGACGTGGCAGACGTAAACCTCACTGGCCY		
92218 P	C	A	CGCGCCGAGGCTAAACCTCACTGGCCY		
92218 T	G	A	CAGGGGCCAGTGAGGTTTACTGGCAGCTGCAGCCTCGCCCAG		
92218 T	C	A	CAGGGGCCAGTGAGGTTTAGTGGCAGCTGCAGCCTCGCCCAG		
92218 IS	[GC]		GCAGAAACAGGGGGGATCAAAAAACACACTCAGGCCACCTGGGCGAGGCTGCAGCTGCCA[GC]TAAACCTCACTGGCCCCTGGCAGCAAGAAGAGAGAATCCAAGGAAG CTTCCAGACCCACC		
92236 I		A	TGGCCAGCATGGCAATGGCCCTTCT		
92236 P	C	A	ATGACGTGGCAGACCAGGCCCTGGATTCTY		
92236 P	A	A	CGCGCCGAGGAAGGCCCTGGATTCTGY		
92236 T	C	A	TTGGCAGAATCCAGGGCCTGGAAGGGCCATTGCCATGCTGGCCAGC		
92236 T	A	A	TTGGCAGAATCCAGGGCCTTGAAGGGCCATTGCCATGCTGGCCAGC		
92236 IS	[CA]		GTGGAAAAGCCCTTTTGTTGTGTCCTAGACATGTGCTGGCCAGCATGGCAATGGCCCTTC[CA]AGGCCCTGGATTCTGCCAAGCATGTCATGATAGTGACTTGTCACCAG TGACCCTGAGAAG		
92383 I		A	CCAGTGGTGTTCAACATACGATATCTGTTTATCTGTGTT		
92383 P	A	A	CGCGCCGAGGATCCATCTACCTAGATAGATAGATY		
92383 P	G	A	ATGACGTGGCAGACGTCCATCTACCTAGATAGATAGAY		
92383 T	A	A	ATCCATCTATCTATCTAGGTAGATGGATACACAGATAAACAGATATCGTATGTTGAACACCACTGGTT		
92383 T	G	A	ATCCATCTATCTATCTAGGTAGATGGACACACAGATAAACAGATATCGTATGTTGAACACCACTGGTT		
92383 IS	[AG]		ACTAGATATGACTTGAATTGAACCAGTGGTGTTCAACATACGATATCTGTTTATCTGTGT[AG]TCCATCTACCTAGATAGATAGATGGATAGATATTTCAAACAGTGGG AAAACATTCTTCAA		
92442 I		S	CTGCCACAGTTCAAGCCTTTACCCACTGTGAT		
92442 P	T	S	CGCGCCGAGGAGCCAGCAGCCAGY		
92442 P	C	S	ATGACGTGGCAGACGGCCAGCAGCCAY		
92442 T	T	S	CATGCTGGCTGCTGGCTTCACAGTGGGTAAAGGCTTGAACTGTGGCAGTG		
92442 T	C	S	CATGCTGGCTGCTGGCCTCACAGTGGGTAAAGGCTTGAACTGTGGCAGTG		
92442 IS	[TC]		AGGTGGGGGCACCAGGTGGGCTTGGGGAGGCAGGATGGTGACCACATGCTGGCTGCTGGC[TC]TCACAGTGGGTAAAGGCTTGAACTGTGGCAGTGAGGTGGGCAATGC CCACTGGTACTGTC	PTCH2	
92499 I		A	GGGCTTCCTCCCGGGGTCCTAGGA		
92499 P	C	A	ATGACGTGGCAGACCGGCGGTGCAGTY		
92499 P	T	A	CGCGCCGAGGTGGCGGTGCAGTCY		
92499 T	C	A	GACGGACTGCACCGCCGCCTAGGACCCCGGGAGGAAGCCCTC		
92499 T	T	A	GACGGACTGCACCGCCACCTAGGACCCCGGGAGGAAGCCCTC		
92499 IS	[CT]		TGTATTATTTGCCATCTTTGTTGTGTAGGAGCAGGGAGGGCTTCCTCCCGGGGTCCTAGG[CT]GGCGGTGCAGTCCGTCGTAGAAGAATTAGAGTAGAAGTTGTCGGGG TCCGCTCTTAGGAC	ERCC5	
92711 I		S	CGTGTGTTTATGCCAATTTAGGCACTTGATCTACAGCTAGAAA		
92711 P	G	S	ATGACGTGGCAGACCGTGAACTTCAGAGGAACY		
92711 P	A	S	CGCGCCGAGGTGTGAACTTCAGAGGAACTY		

FIGURE 129C

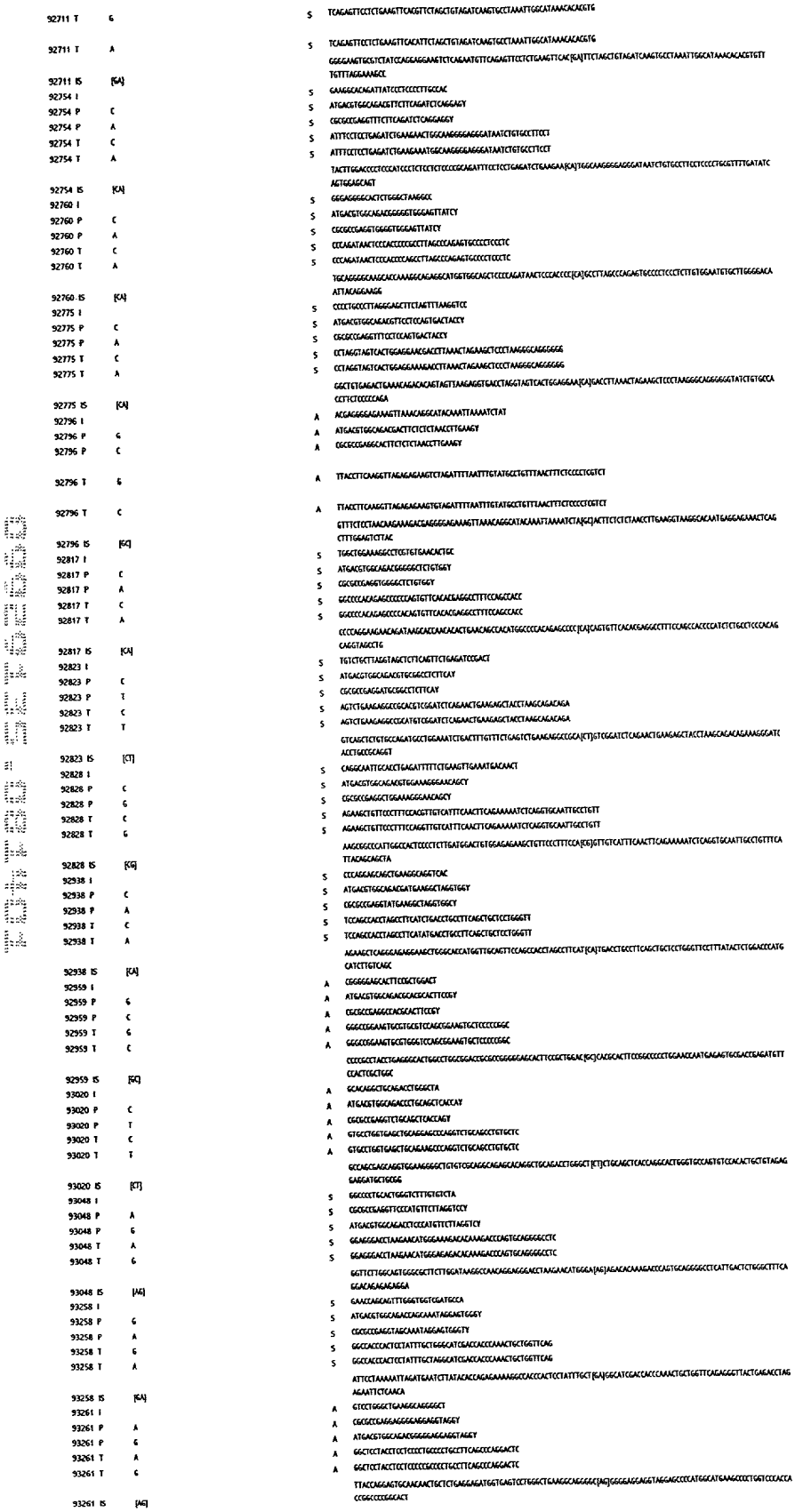


FIGURE 129C

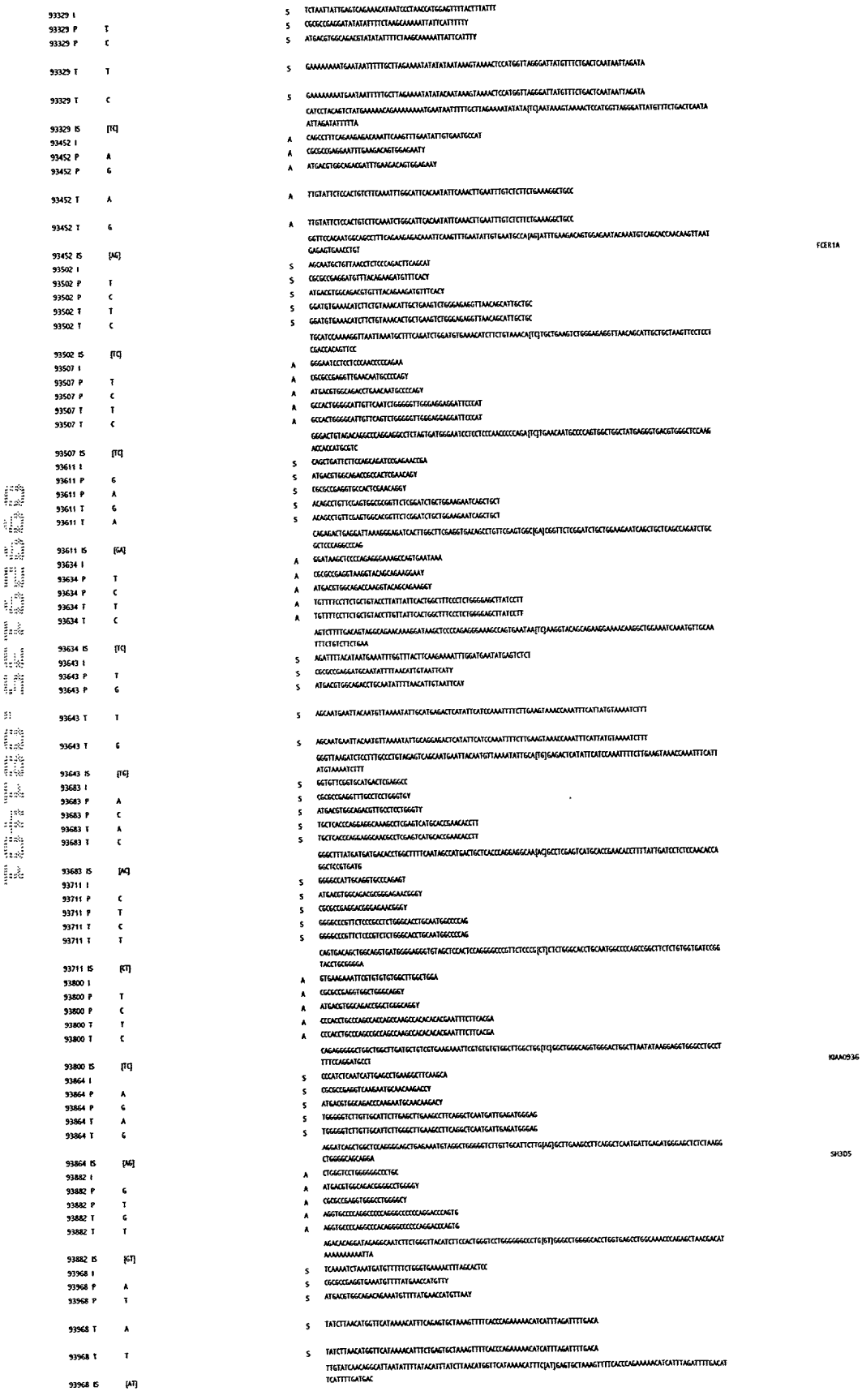
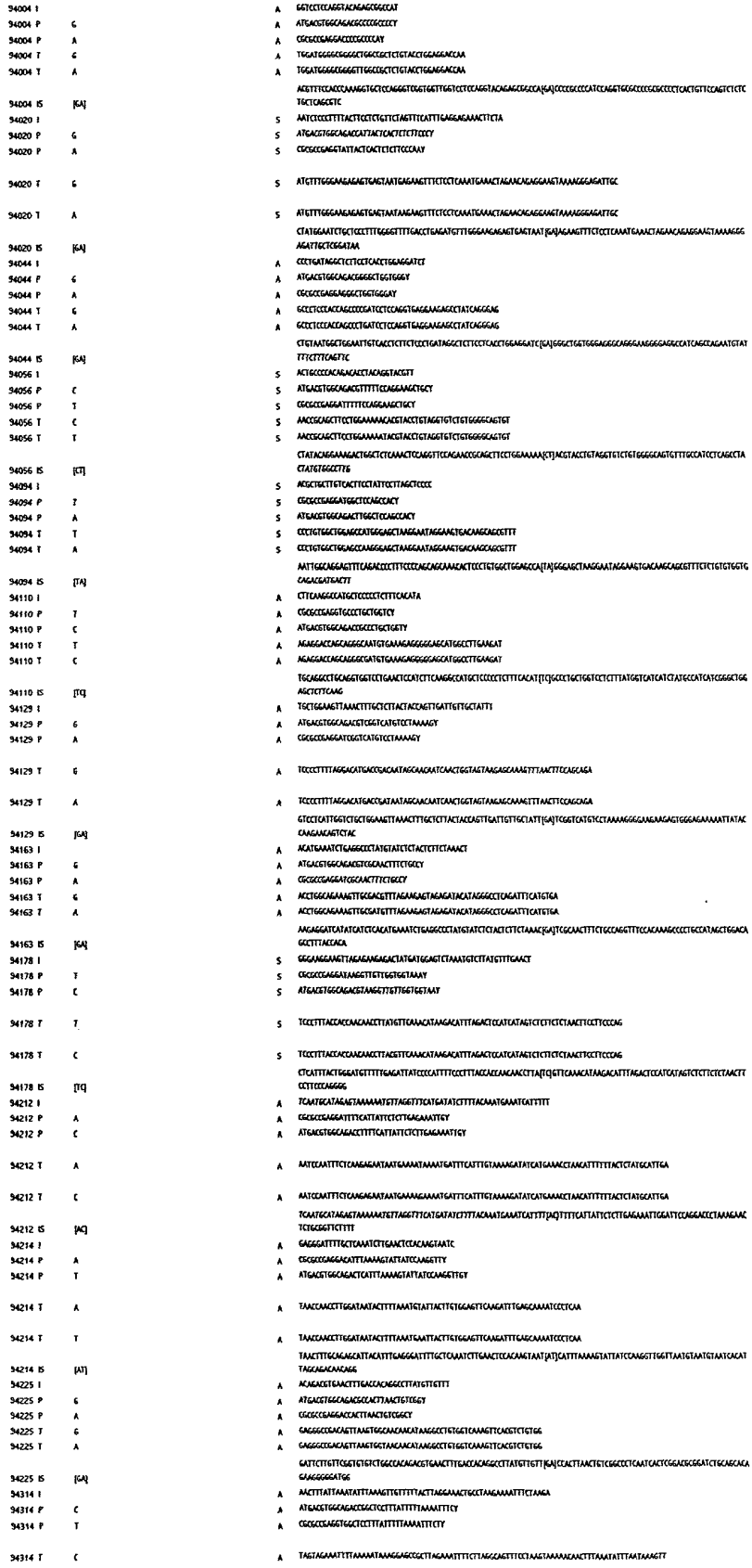
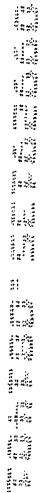


FIGURE 129C







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FIGURE 129C

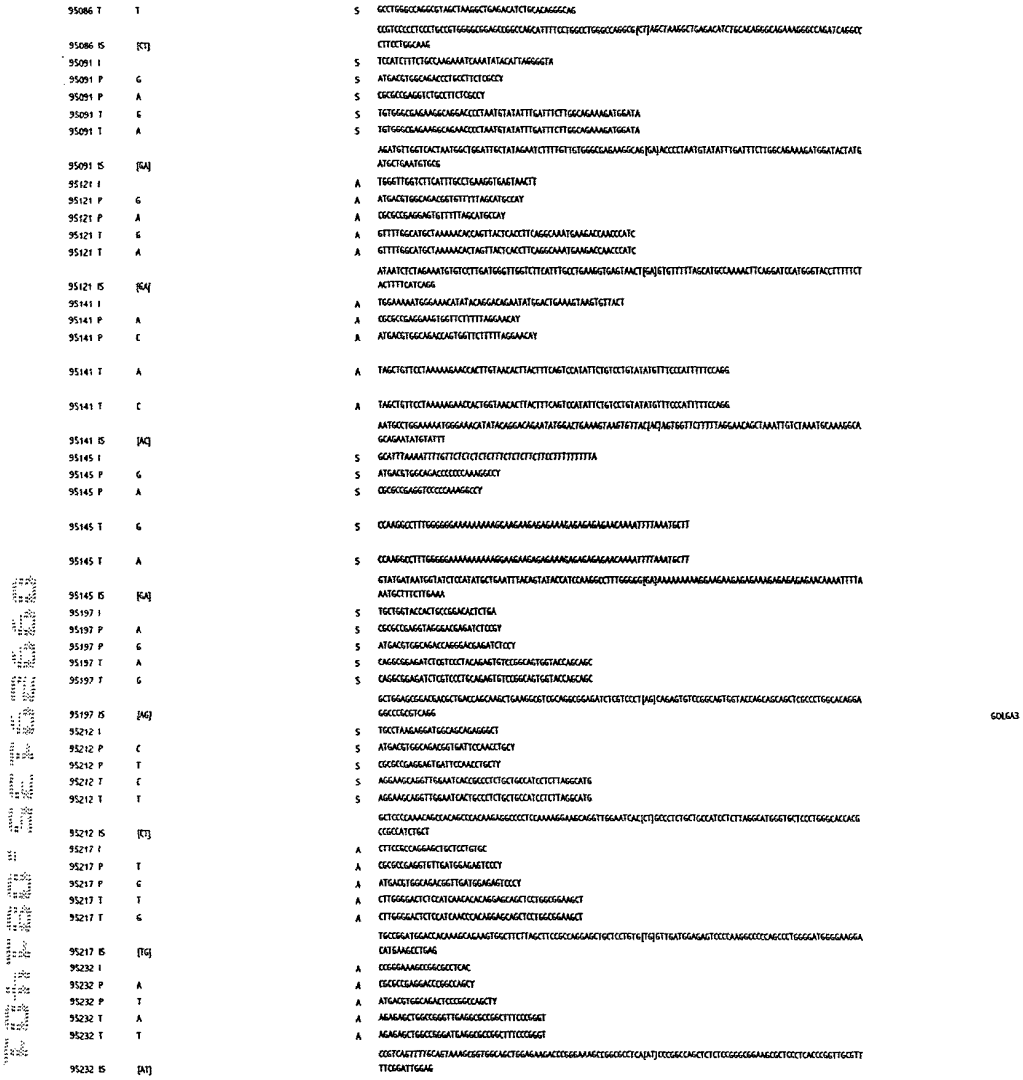
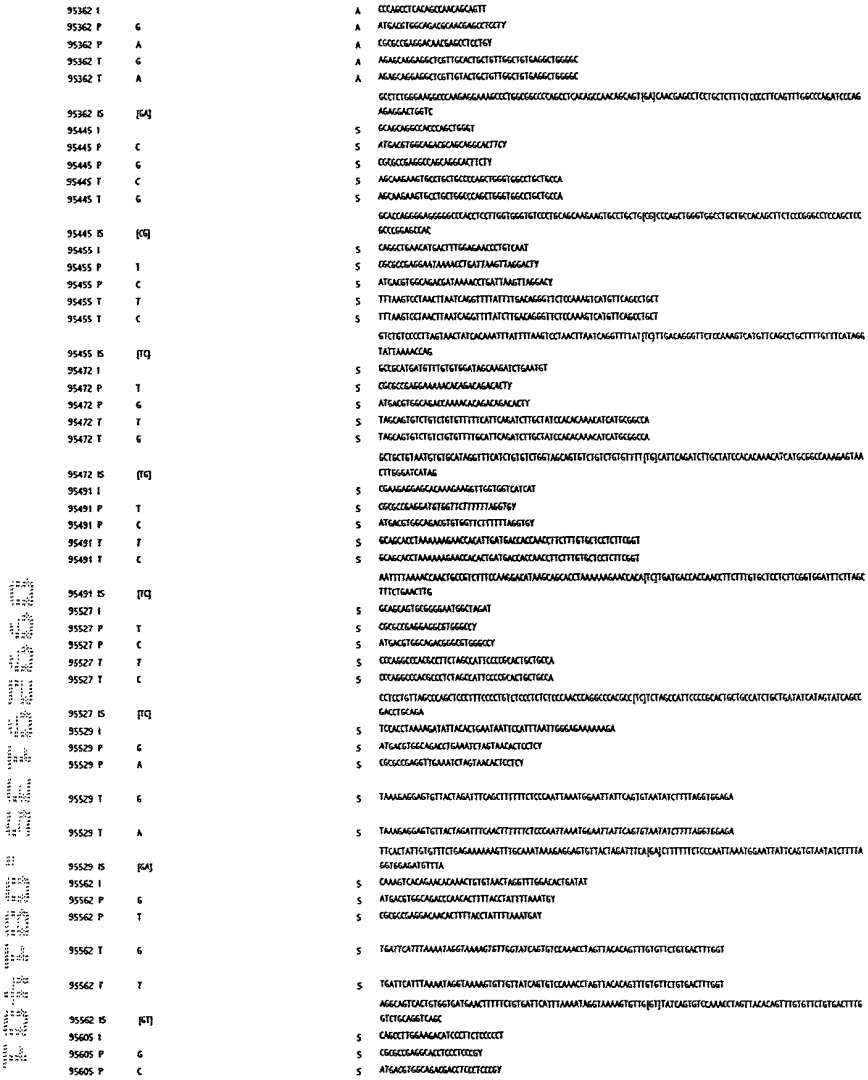
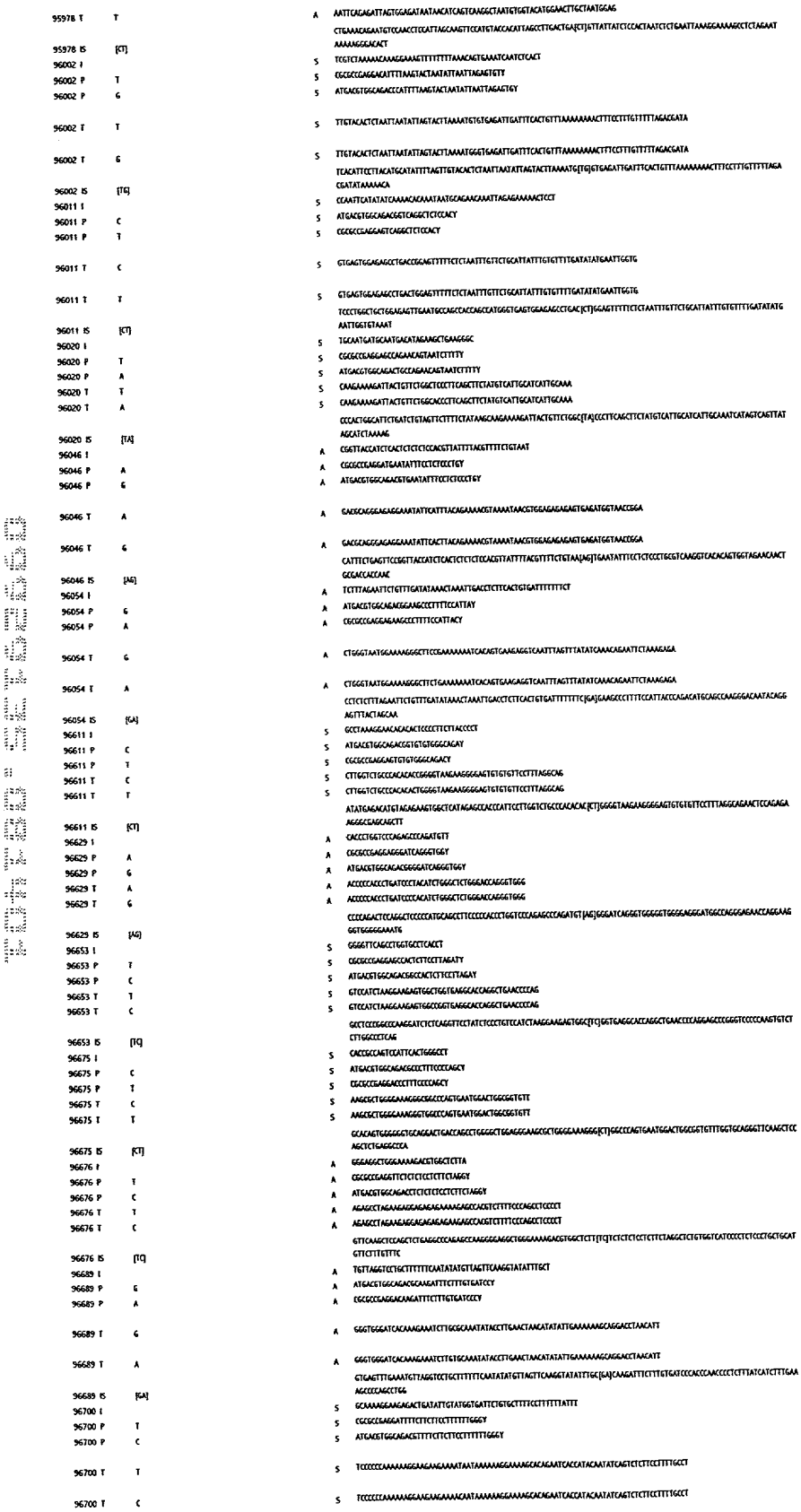
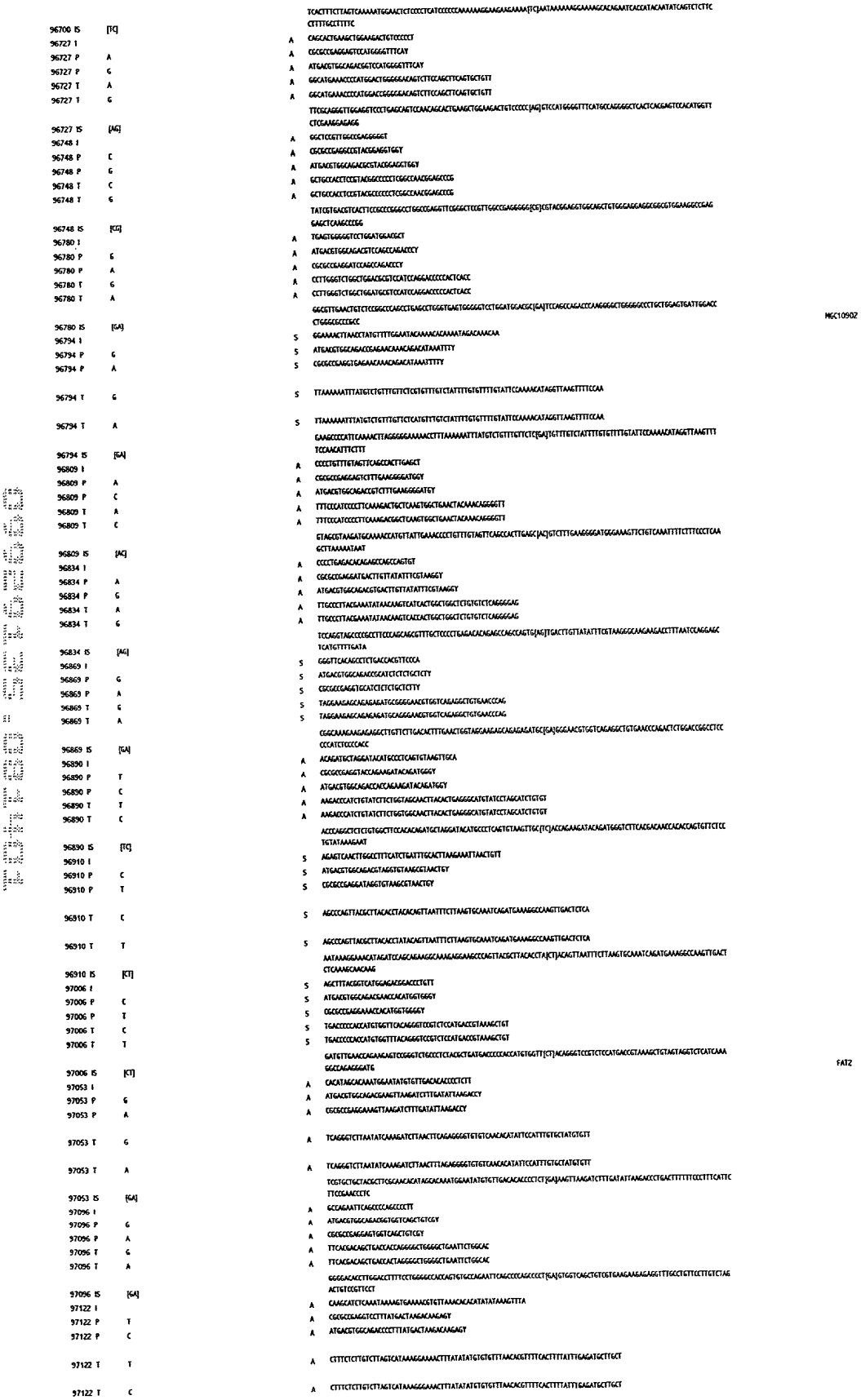


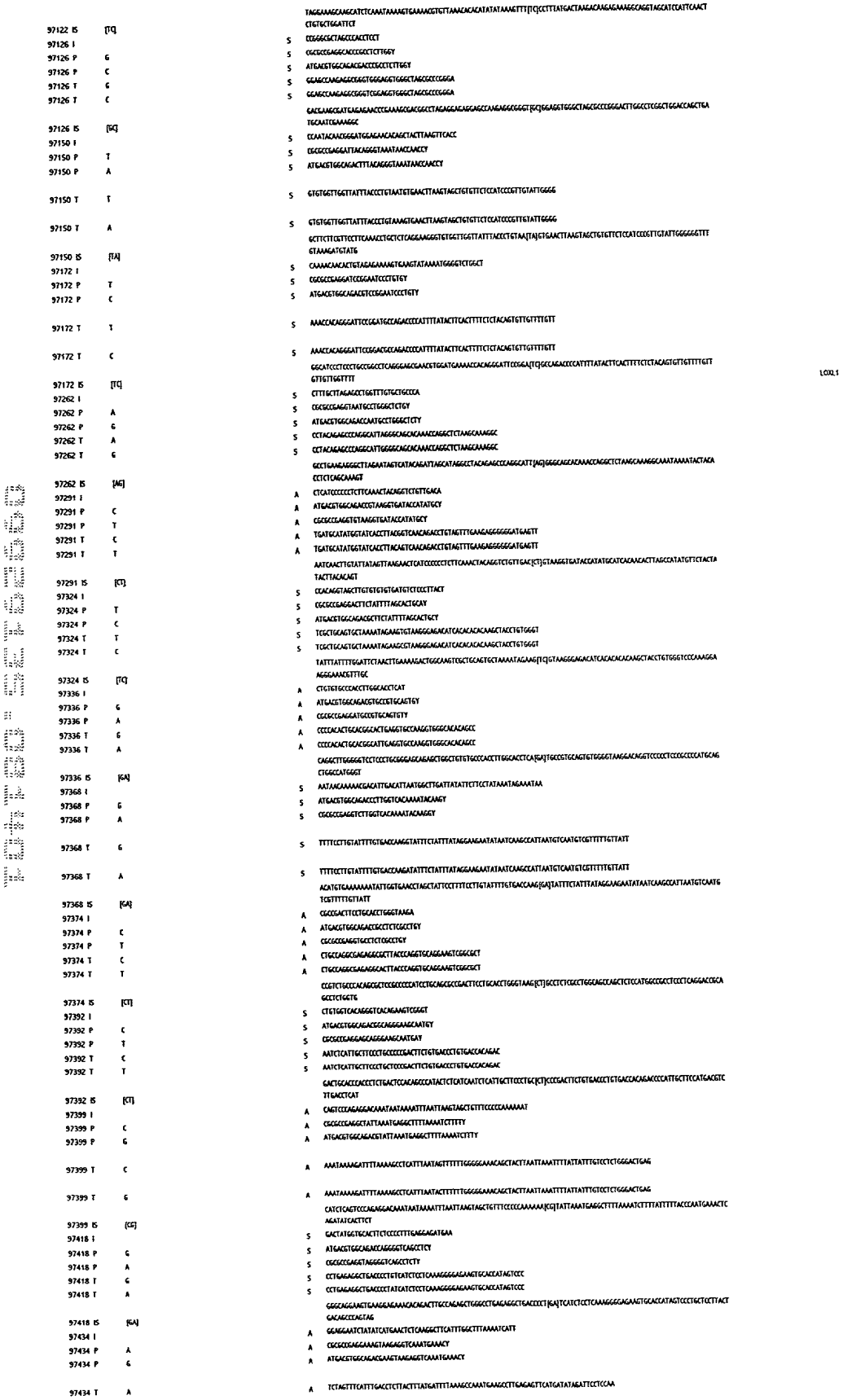
FIGURE 129C





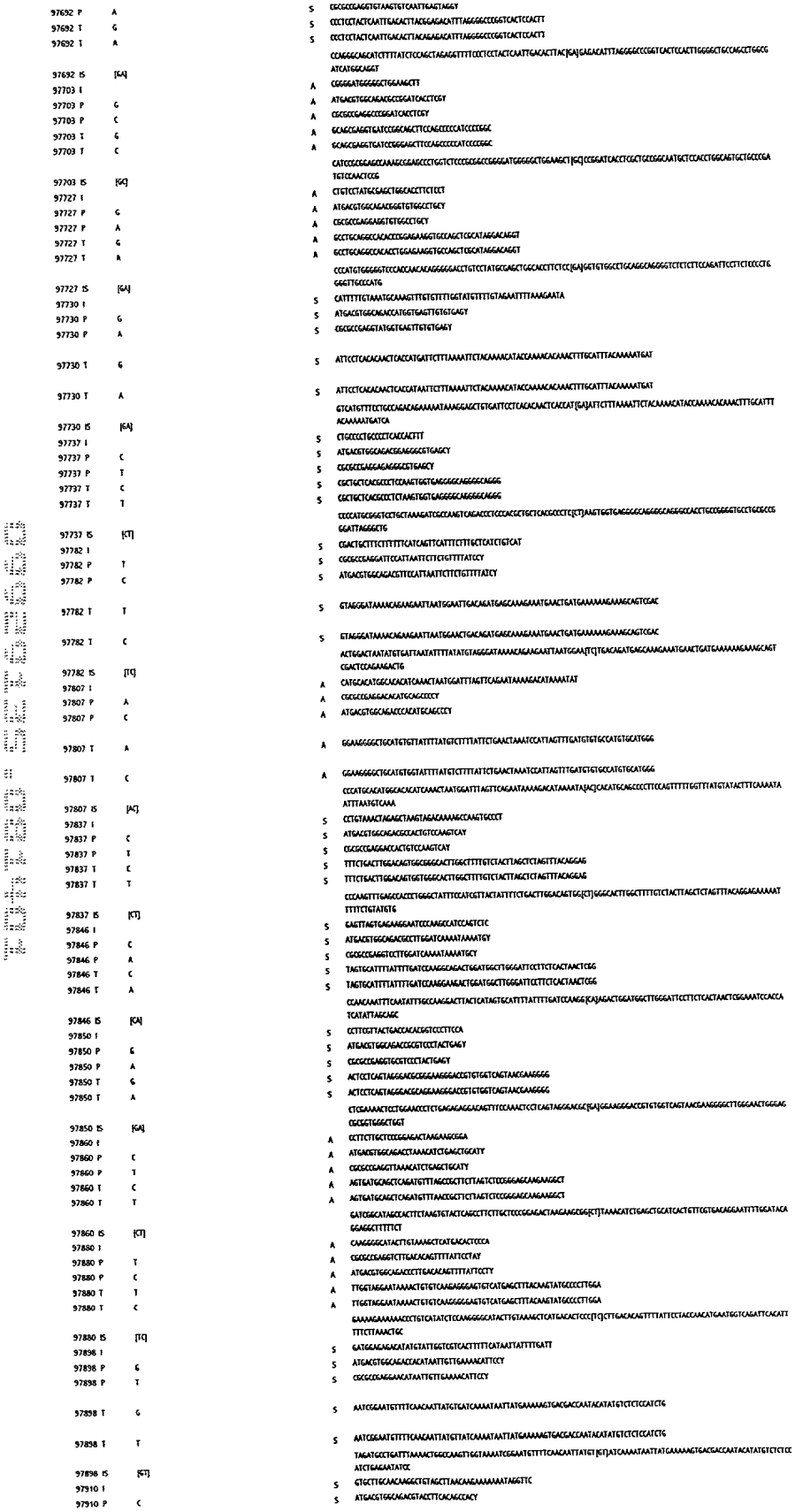


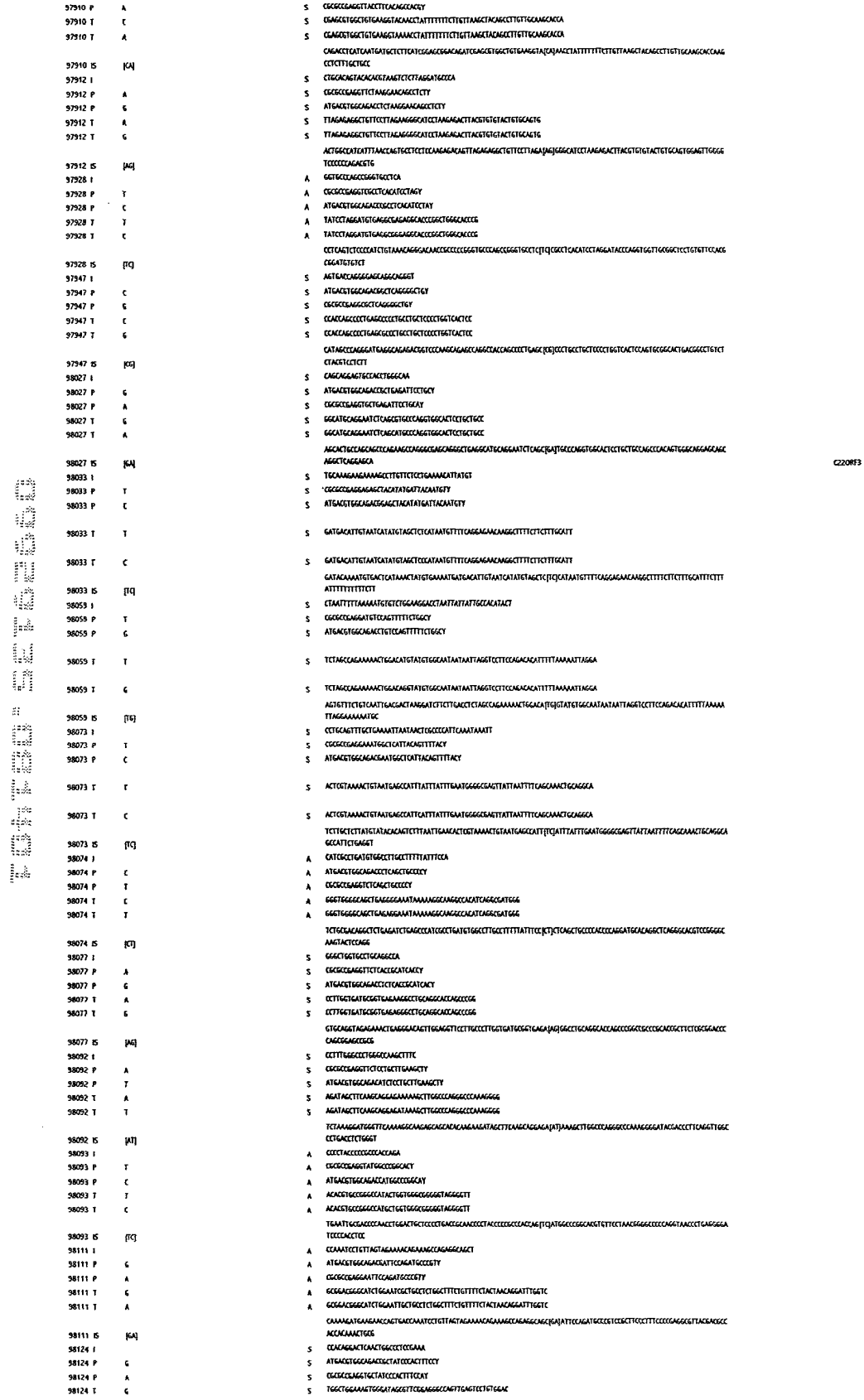



LOXL1

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97434 IS	[AG]		ACATGAATTGGAGGAATCTATATTATGATGAACTCTCAAGGCTTCATTTGGCTTTAAAATCAT[AG]AAGTAAGAGGTCAAATGAAACTAGAGACCTATACTCAATGTGTAA TGTGTTCTAGGGAA		
97472 I		S	GGGAGGCAGAGCGGCCCCTAGC		
97472 P	A	S	CGCGCCGAGGTCGCCCCCTAGTCCY		
97472 P	T	S	ATGACGTGGCAGACACCGCCCCTAGTCCY		
97472 T	A	S	TCCCGGACTAGGGGCGGACTAGGGCCCGCTCTGCCTCCCGC		
97472 T	T	S	TCCCGGACTAGGGGCCGGTCTAGGGCCCGCTCTGCCTCCCGC		
97472 IS	[AT]		CCCGCGTTTGCGCGTGGCTTCCCCCCCGGGGACCGCCCAGAGGTCCCCGGACTAGGGCGGG[AT]CTAGGGGCCCCTCTCGCCTCCCGCCCCCTAGTGGTTGTGGCCGCTCTGTC ACCACGGCTCC		MGC15729
97543 I		S	CCTTGAAGAACATACAATCCAGTGACACAGCCTAA		
97543 P	A	S	CGCGCCGAGGTAATCCAATAGGTAGAATATGGTGY		
97543 P	G	S	ATGACGTGGCAGACCAATCCAATAGGTAGAATATGGTY		
97543 T	A	S	CCATCACCATATTCTACCTATTGGATTATAGGCTGTGTCACTGGATTGTATGTTCTTCAAGGAT		
97543 T	G	S	CCATCACCATATTCTACCTATTGGATTGTAGGCTGTGTCACTGGATTGTATGTTCTTCAAGGAT		
97543 IS	[AG]		CTTCCTTCTTCCCTCCTTCTTCTTGCACAGCACCCATCACCATATTCTACCTATTGGATT[AG]TAGGCTGTGTCACTGGATTGTATGTTCTTCAAGGATTAGAACTTATGT CTAATAAATTAT		
97547 I		A	CCTGTTTCCCCTGACACGACCTGCACCT		
97547 P	G	A	ATGACGTGGCAGACGGGTGAGAACCTGTGCY		
97547 P	A	A	CGCGCCGAGGAGGTGAGAACCTGTGCY		
97547 T	G	A	CCAGGCACAGGTTCTCACCCGGTGCAGGTCGTCTCAGGGGAAACAGGC		
97547 T	A	A	CCAGGCACAGGTTCTCACCTGGTGCAGGTCGTCTCAGGGGAAACAGGC		
97547 IS	[GA]		CTCAGGGCCCTGGTGCCGCTGTCTGTATCCTGCCCTGTTTCCCCTGACACGACCTGCACC[GA]GGTGAGAACCTGTGCCTGGGAAACGGCCCTCAAAAAGACCAGGCAG GTAGAAAAGGGA		
97549 I		A	CCCCGATGGCCACTTTTTGCCCT		
97549 P	A	A	CGCGCCGAGGAGCTTAATGATAAAATGAAGAAAGCY		
97549 P	C	A	ATGACGTGGCAGACCCCTTAATGATAAAATGAAGAAAGCY		
97549 T	A	A	TGGAGCTTTCTTCATTTTATCATTAAGGTGGGCAAAAAGTGGCCATCGGGGTT		
97549 T	C	A	TGGAGCTTTCTTCATTTTATCATTAAGGGGGGCAAAAAGTGGCCATCGGGGTT		
97549 IS	[AC]		GCCCTTCCATGTATATTCTTTTGGATCCATTATGATAACCCCGATGGCCACTTTTTGCCC[AC]CCTTAATGATAAAATGAAGAAAGCTCCAGGTTTCTTGCATTTTTTAAA GGCAGATGAAAC		
97554 I		A	CCTGTTGCATTGCGCCTCACATCCGTA		
97554 P	C	A	ATGAGTGGCAGACCAGTGTGTAAGTATTTGAGCTY		
97554 P	T	A	CGCGCCGAGGTAGTGTGTAAGTATTTGAGCTTY		
97554 T	C	A	TAAGAAGCTCAAATACTTACACACTGACGGATGTGAAGCGCAATGCAACAGGAG		
97554 T	T	A	TAAGAAGCTCAAATACTTACACACTAACGGATGTGAAGCGCAATGCAACAGGAG		
97554 IS	[CT]		GCTTTTTTGTCTATCAGGGAACACTTGTAGTCTCCTGTTGCATTGGGCCTCACATCCGT[CT]AGTGTGTAAGTATTTGAGCTTCTTATTCCTTCGGGCTGTCCCTTTTGA TAGAGGCAAAAT		
97555 I		S	TTCCTGCGGCCATCGGCACCAAA		
97555 P	A	S	CGCGCCGAGGTGATGACGTCAAACTCAAAY		
97555 P	G	S	ATGACGTGGCAGACCGATGACGTCAAACTCAAY		
97555 T	A	S	GGAGTTTGAGTTTGACGTCATCATTGGTGCCGATGGCCGCAGGAACA		
97555 T	G	S	GGAGTTTGAGTTTGACGTCATCGTTGGTGCCGATGGCCGCAGGAACA		
97555 IS	[AG]		TGGCGGCAGAATTTCTCCCTACAGACCATTCTCTGTCGGAGTTTGAGTTTGACGTCATC[AG]TTGGTGCCGATGGCCGCAGGAACACCCTGGAAGGTGAAGACTCTTCT TCTTGGTGTGGGA		
97566 I		A	GTAGAGCCACCACAGGCACAGGGCA		
97566 P	T	A	CGCGCCGAGGTGGACGGTGGAGGY		
97566 P	C	A	ATGACGTGGCAGACCGGACGGTGGAGGY		
97566 T	T	A	TCACCCTCCACGGTCCAGCCCTGTGCCTGTGGTGGCTCTACGG		
97566 T	C	A	TCACCCTCCACCGTCCGGCCCTGTGCCTGTGGTGGCTCTACGG		
97566 IS	[TC]		GAGAACATCCAAGACAAGTAAGTGAGCCACCTGCCCGTAGAGCCACCACAGGCACAGGGC[TC]GGACGGTGGAGGGTGAGGCAGGGGGAGGCAAAAGAAAAGAAGGAG AAAGACTTGCAGCTT		
97584 I		S	GGCGGGATCCCTGGGGAGCCA		
97584 P	G	S	ATGACGTGGCAGACCGCCGTGGACCAY		
97584 P	A	S	CGCGCCTAGGTGCCGTGGACCACT		
97584 T	G	S	CTCGGTGGTCCACGGCGGGCTCCCCAGGGATCCCGCCCA		
97584 T	A	S	CTCGGTGGTCCACGGCAGGCTCCCCAGGGATCCCGCCCA		
97584 IS	[GA]		TTTGGGCTCCGTGCTGTTGATGAATTCCAGCAGCTCATCCACATCTCCGGTGGTCCACGGC[GA]GGCTCCCCAGGGATCCCGCCCAGGGTGCCCCCCTTCATGGGCAGCTCCT CTTTCCGCCTG		FLJ10404
97596 I		S	CGACCGGCTGGAGGCTGAGATGCAT		
97596 P	T	S	CGCGCCGAGGAGAGCTCGCCATCCY		
97596 P	C	S	ATGACGTGGCAGACGGAGCTCGCCATCCY		
97596 T	T	S	AGCTGGATGGCGAGCTCTTGCATCTCAGCCTCCAGCCGGTCGGC		
97596 T	C	S	AGCTGGATGGCGAGCTCCTGCATCTCAGCCTCCAGCCGGTCGGC		
97596 IS	[TC]		TCACCCTGCCCCCCCATCCCCCAACCCAGCCACTCACCTTGTGCAGCTGGATGGCGAGCTC[TC]TGCATCTCAGCCTCCAGCCGGTCGGCGTAGGCCAGCTCCAGGGCATCCCC GGGTGGGCGG		
97618 I		S	ACTGCAGTTCCCCAGGCGGGTAAGT		
97618 P	T	S	CGCGCCGAGGAGACAGGTGTCCATGGY		
97618 P	G	S	ATGACGTGGCAGACCGACAGGTGTCCATGY		
97618 T	T	S	CTAACCATGGACACCTGTCTCTTACCCGCCCTGGGGAACTGCAGTTT		
97618 T	G	S	CTAACCATGGACACCTGTCGCTTACCCGCCCTGGGGAACTGCAGTTT		
97618 IS	[TG]		TAAGGCGGTGGGCAACTGTCTCAACTATTTGCACCATTGACCCTAACCATGGACACCTGTC[TG]CTTACCCGCCCTGGGGAACTGCAGTTTTGCCAAGCGTCTACATAAGAC CGTGCGGCGGCT		
97655 I		S	CTTCCACTTGATTCATTCATTCCAAGAGATGGACACTGCATTT		
97655 P	T	S	CGCGCCGAGGATATCTGAAAGTCTGAAATGCCY		
97655 P	C	S	ATGACGTGGCAGACGTATCTGAAAGTCTGAAATGCY		
97655 T	T	S	AGGTGGCATTTCAGACTTTCAGATATAATGCAGTGTCCATCTCTTGGAATGAATGAATCAAGTGGAAGTG		
97655 T	C	S	AGGTGGCATTTCAGACTTTCAGATACAATGCAGTGTCCATCTCTTGGAATGAATGAATCAAGTGGAAGTG		
97655 IS	[TC]		GGTGTAAGGCCTCACAAAGGCAGTTAATTCTCTAAAGGTGGCATTTCAGACTTTCAGATA[TC]AATGCAGTGTCCATCTCTTGGAATGAATGAATCAAGTGGAAGTGAT GTTTCGATTTGCAG		
97669 I		S	CTCTCCCCAGGGTACTTACCCAGTAGAGCACT		
97669 P	C	S	ATGACGTGGCAGACGTCTGTCCAGCCCTCY		
97669 P	T	S	CGCGCCGAGGATCTGTCCAGCCCTCY		
97669 T	C	S	CATGGAGGCTGGACAGACGTGCTCTACTGGGTAAGTACCCTGGGGAGAGAG		
97669 T	T	S	CATGGAGGCTGGACAGATGTGCTCTACTGGGTAAGTACCCTGGGGAGAGAG		
97669 IS	[CT]		TAACTTTGCCTTTGCCATGCTTACTGTGTTTCAGTGCATCACCATGGAGGCTGGACAGA[CT]GTGCTCTACTGGGTAAGTACCCTGGGGAGAGAGTTTATGCAGTGTTC TTTGCTTGGATAA		
97691 I		S	TTCCAGCTCAGAACTAGCTAACTGCCACAA		
97691 P	G	S	ATGAGTGGCAGACCGTGGAATTCTGACCAAGY		
97691 P	A	S	CGCGCCGAGGTGTGGAATTCTGACCAAGY		
97691 T	G	S	TCAACTTGGTCAGAATTCCACGTGTGGCAGTTACCTAGTTCTGAGCTGGAATA		
97691 T	A	S	TCAACTTGGTCAGAATTCCACATGTGGCAGTTACCTAGTTCTGAGCTGGAATA		
97691 IS	[GA]		TTCTGTCCTTTAAAACAATACAGATGACTACTCCCCACTCAACTTGGTCAGAATTCCAC[GA]TGTGGCAGTTACCTAGTTCTGAGCTGGAATAATCATGTATTATCCAT GGAAACACAGGGT		
97692 I		S	GTGGAGTGACCGGGCCCCTAAATGTCTCA		
97692 P	G	S	ATGACGTGGCAGACCGTAAGTGTCAATTGAGTAGGY		

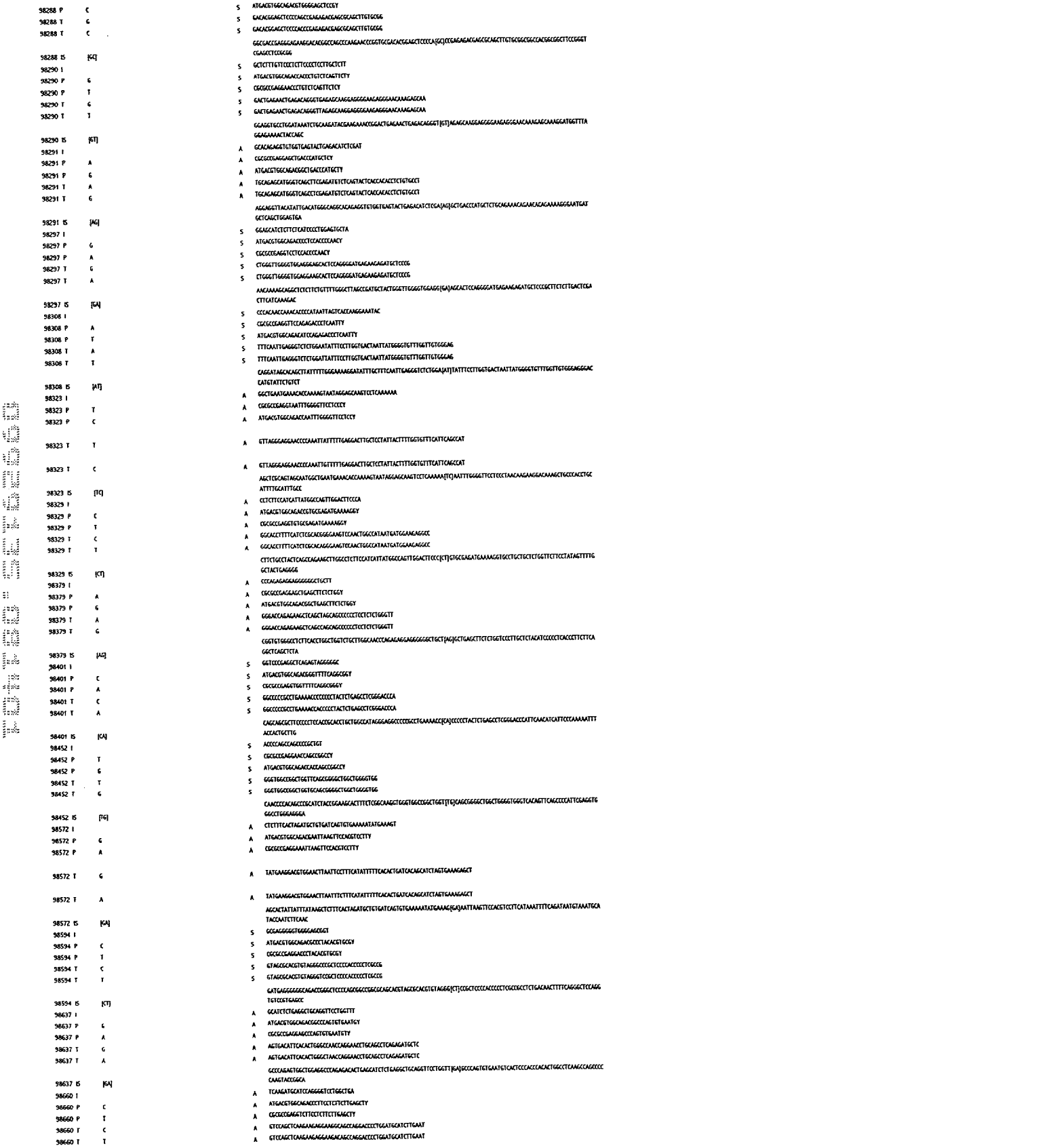
FIGURE 129C





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                   CCCCATTCCTTTAGACCCAAGATGGGATCTCCTTCAATCCTGGCTGGAAAGTGGGATAGC[GA]TTCGGAGGGCCAGTTGAGTCCTGTGGACCAGACAGCGGCCTATGAAC
98124 IS  [GA]     AGCATTGGCCCTC
98147 I           S  GACGATGGTGTGATGGGGTTCACATGTACTCAGAT
98147 P   C       S  ATGACGTGGCAGACGTGTACACTTGTCACAGCY
98147 P   T       S  CGCGCCGAGGATGTACACTTGTCACAGCY
98147 T   C       S  TTAAGCTGTGACAAGTGTACACTCTGAGTACATGTGAACCCCCATCACACCATCGTCTC
98147 T   T       S  TTAAGCTGTGACAAGTGTACATTCTGAGTACATGTGAACCCCATCACACCATCGTCTC
                   GTATGTATATTGACTTAGAGGTCTTCTTAGGCTTCATCTTAAGCTGTGACAAGTGTACA[CT]TCTGAGTACATGTGAACCCCATCACACCATCGTCTCTGTAAGCCCCAT
98147 IS  [CT]     GAGTGCCAGATC
98163 I           S  AGTATTGGTGGAATTCTCCATCTACATATTTCCTAGGAAGGTAATCCCT
98163 P   C       S  ATGACGTGGCAGACGATTTGTACCATTGTTATTCAGGY
98163 P   T       S  CGCGCCGAGGAATTTGTACCATTGTTATTCAGGY
98163 T   C       S  ATTACCTGAATAACAATGGTACAAATCGGGATTACCTTCCTAGGAAATATGTAGATGGAGAATCCACCAATACTGA
98163 T   T       S  ATTACCTGAATAACAATGGTACAAATTGGGATTACCTTCCTAGGAAATATGTAGATGGAGAATCCACCAATACTGA
                   CTGTAAACAGATTTGGTCTCAGGTGACAGTCTCATTACCTGAATAACAATGGTACAAAT[CT]GGGATTACCTTCCTAGGAAATATGTAGATGGAGAATCCACCAATAC
98163 IS  [CT]     TGATAACTTCACAT
98176 I           S  CCTTCAGTAGGTTCCAGACGTGGGTGTGTGATAGC
98176 P   A       S  CGCGCCGAGGTGTCAGGAACACCTGAAT
98176 P   C       S  ATGACGTGGCAGACGGTCAGGAACACCTGAY
98176 T   A       S  ATCATTCAGGTGTTCCTGACACTATCACACACCCACGTCTGGAACCTACTGAAGGAC
98176 T   C       S  ATCATTCAGGTGTTCCTGACCCTATCACACACCCACGTCTGGAACCTACTGAAGGAC
                   GTCCCAGCAGGAGGTGGCCGGGGAGGCCGAGGCGCAGAGAATCATTCAGGTGTTCCTGAC[AC]CTATCACACACCCACGTCTGGAACCTACTGAAGGACCGTGGATGATG
98176 IS  [AC]     CTGTTCGAACATT
98213 I           S  CGTATCATTTCCTCATTAATCTCCTCAAGTCTCATGATAATTCTAATAAATCAACA
98213 P   G       S  ATGACGTGGCAGACCACAGCCAAAACTTTTCCY
98213 P   A       S  CGCGCCGAGGTACAGCCAAAACTTTTCCTY
98213 T   G       S  TGGGAGGAAAAAGTTTTGGCTGTGGTTGATTTATTAGAATTATCATGAGACTTGAGGAGATTAATGAGGAAATGATACGAT
98213 T   A       S  TGGGAGGAAAAAGTTTTGGCTGTAGTTGATTTATTAGAATTATCATGAGACTTGAGGAGATTAATGAGGAAATGATACGAT
                   AAAAGGGAGGTTACAACTCTGTGAGGTTTCATCATATGGGAGGAAAAAGTTTTGGCTGT[GA]GTTGATTTATTAGAATTATCATGAGACTTGAGGAGATTAATGAGG
98213 IS  [GA]     AAATGATACGATGCT
98219 I           S  CAGTTGGGAGCCACATGAACATTACTGGCCTTC
98219 P   A       S  CGCGCCGAGGTTCAACCTACCCATGCAY
98219 P   T       S  ATGACGTGGCAGACATCAACCTACCCATGCAY
98219 T   A       S  AAAATGCATGGGTAGGTTGAAAAGCCCAGTAATGTTCATGTGGCTCCCAACTGAA
98219 T   T       S  AAAATGCATGGGTAGGTTGATAAGCCCAGTAATGTTCATGTGGCTCCCAACTGAA
                   CATTCGCTCTTCTCCCTGCCACATTTGGTACAGGATGATAAAAATGCATGGGTAGGTTGA[AT]AAGGCCAGTAATGTTCATGTGGCTCCCAACTGAAACCTCAAGGGAGT
98219 IS  [AT]     CTGGTAGGTCATT
98221 I           S  AGCTGATTAGCAACCTCTGTAGCACACCACATTTACTTTATGTT
98221 P   G       S  CGCGCCGAGGCTTACATAGTTAGTGAGATCAGGY
98221 P   C       S  ATGACGTGGCAGACGTTACATAGTTAGTGAGATCAGGY
98221 T   G       S  GTTCCCTGATCTCACTAACTATGTAAGACATAAAGTAAATGTGGTGTGCTACAGAGGTTGCTAATCAGCTAA
98221 T   C       S  GTTCCCTGATCTCACTAACTATGTAACACATAAAGTAAATGTGGTGTGCTACAGAGGTTGCTAATCAGCTAA
                   TTCCAACTGGTCTTCGTGACCTTCTGGGTTTTTGTTCCCTGATCTCACTAACTATGTAA[GC]ACATAAAGTAAATGTGGTGTGCTACAGAGGTTGCTAATCAGCTAAGG
98221 IS  [GC]     CATCAGTAAGCTG
98233 I           S  AGCTCCAAGGCACCCATGAGAAAAGGACGC
98233 P   T       S  CGCGCCGAGGACGTCTTCCAGGTTTCAY
98233 P   A       S  ATGACGTGGCAGACTCGTCTTCCAGGTTTCAY
98233 T   T       S  CTGCTGAAACCTGGAAGAGTCGTCCTTTTCTCATGGGTGCCTTGGAGCTGT
98233 T   A       S  CTGCTGAAACCTGGAAGACGACGTCCTTTTCTCATGGGTGCCTTGGAGCTGT
                   TGAGCTGCCTGGGCAGGGCTGAGACGACCCACCAGCATCACTGCTGAAACCTGGAAGACG[TA]CGTCCTTTTCTCATGGGTGCCTTGGAGCTGTTTCCCAAACTGTGCTCC
98233 IS  [TA]     ATGGAACACCAG
98239 I           S  TTCCTGAAAATATACTCACTCTTTTTTCTTTTTCTTTTTTTTTGAGGTCTCA
98239 P   A       S  CGCGCCGAGGTAGTTTTCAGGAAAGTGGAATY
98239 P   G       S  ATGACGTGGCAGACCAGTTTTCAGGAAAGTGGAY
98239 T   A       S  CGTGATTCCACTTTCCTGAAAACTAGAGAGCGTCAAAAAAAAAAGAAAAGAAAAAAAAGAGTGAGTATATTTTCAGGAAGG
98239 T   G       S  CGTGATTCCACTTTCCTGAAAACTGGAGAGGTCAAAAAAAAAAGAAAAGAAAAAAAGAGTGAGTATATTTTCAGGAAGG
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98239 IS  [AG]     TTCAGGAAGGACAGA
98256 I           S  GCTGAAATGCTACCAAACAGGAAGATTCTATAAGCTGGAACTT
98256 P   T       S  CGCGCCGAGGATTCAGTTGCCTTCCATGY
98256 P   C       S  ATGACGTGGCAGACGTTCAGTTGCCTTCCATY
98256 T   T       S  AATTCATGGAAGGCAACTGAATAGTTCCAGCTTATAGAATCTTCCTGTTTGGTAGCATTTCAGCGA
98256 T   C       S  AATTCATGGAAGGCAACTGAACAGTTCCAGCTTATAGAATCTTCCTGTTTGGTAGCATTTCAGCGA
                   CTCTCTCAGCTTGAATTTTAAAGTAACCACTGTTCTATTAATTCATGGAAGCCAACTGAA[TC]AGTTCCAGCTTATAGAATCTTCCTGTTTGGTAGCATTTCAGCGAAGC
98256 IS  [TC]     CTCGTTCTTAGCC
98265 I           A  TGTAGTGGTGCCCCATGAACACTTGGCAAT
98265 P   G       A  ATGACGTGGCAGACGGACCTACTTTTGTCTTGAY
98265 P   A       A  CGCGCCGAGGAGACCTACTTTTGTCTTGAATY
98265 T   G       A  ACACATTCAAGACAAAAAGTAGGTCCTTGCCAAGTGTTCATGGGGCACCACTACAGC
98265 T   A       A  ACACATTCAAGACAAAAAGTAGGTCTTTGCCAAGTGTTCATGGGGCACCACTACAGC
                   ACCTCAGCCCTTCTAAGGTGGACACACAGGCTGTAGTGGTGCCCCATGAACACTTGGCAA[GA]GACCTACTTTTTGTCTTGAATGTGTCCTTCCACCTTGTGAAGTTCTTT
98265 IS  [GA]     TCCAAATAATCC
98278 I           A  AGTCACTTCACATCGCCTGCGTGTCACCT
98278 P   G       A  ATGACGTGGCAGACGGGGATGGTGCTGAY
98278 P   A       A  CGCGCCGAGGAGGGGATGGTGCTGACY
98278 T   G       A  AGCTGTCAGCACCATCCCCGGTGACACGCAGGCGATGTGAAGTGACTGT
98278 T   A       A  AGCTGTCAGCACCATCCCTGGTGACACGCAGGCGATGTGAAGTGACTGT
                   CGAAGTAAGAAGCACCATCTGCTGCTTTTAACAGTCACTTCACATCGCCTGCGTGTCACC[CA]GGGATGGTGCTGACAGCTGAGGATGTCTTCCTCAGGGAGAGGAATTA
98278 IS  [GA]     AATTACTCATAAA
98284 I           S  TCCTCAGAAGCTTCTCGGTTTAAGAGCTAAAGGGCAAAATAAT
98284 P   C       S  ATGACGTGGCAGACCATAGAGGAAAAATGAAAGTAATTCCY
98284 P   T       S  CGCGCCGAGGAATAGAGGAAAAATGAAAGTAATTCCY
98284 T   C       S  TTGGGGAATTACTTTCATTTTTCCTCTATCTTATTTGCCCTTTAGCTCTTAAACCGAGAAGCTTCTCAGGAGC
98284 T   T       S  TTGGGGAATTACTTTCATTTTTCCTCTATTTTATTTTGCCCTTTAGCTCTTAAACCGAGAAGCTTCTCAGGAGC
                   CACTCAGAGCTGCAGTGTTTGTGTTATTTCCTTGGGGAATTACTTTCATTTTTCCTCTAT[CT]TTATTTTGCCCTTTAGCTCTTAAACCGAGAAGCTTCTCAGGAGCAGCC
98284 IS  [CT]     TGTGTCCCTCAC
98288 I           S  GCACAAGCTGCGCTCGTCTCTCGGT
98288 P   G       S  CGCGCCGAGGCTGGGGAGCTCCGY
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FIGURE 129C



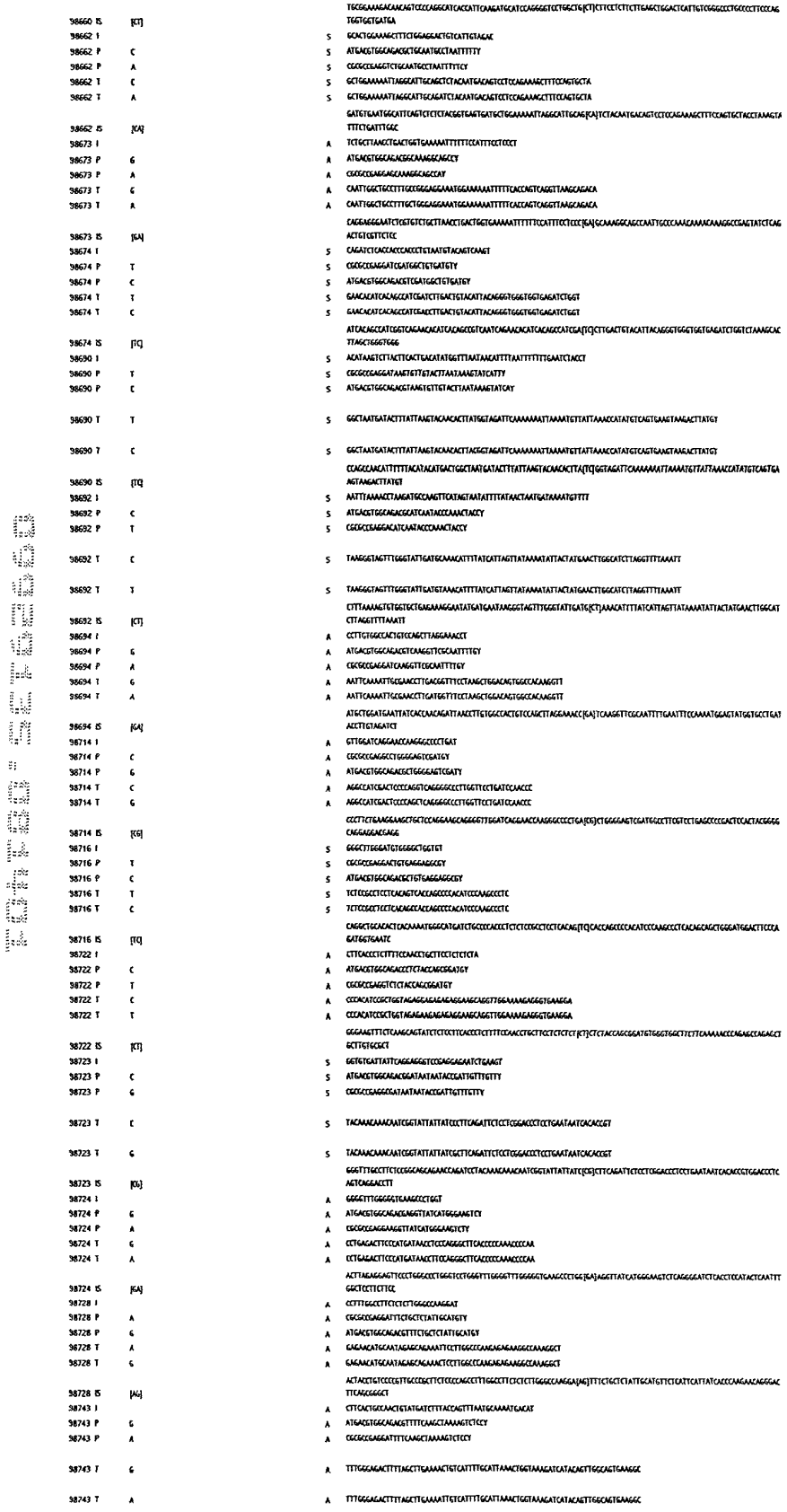


FIGURE 129C

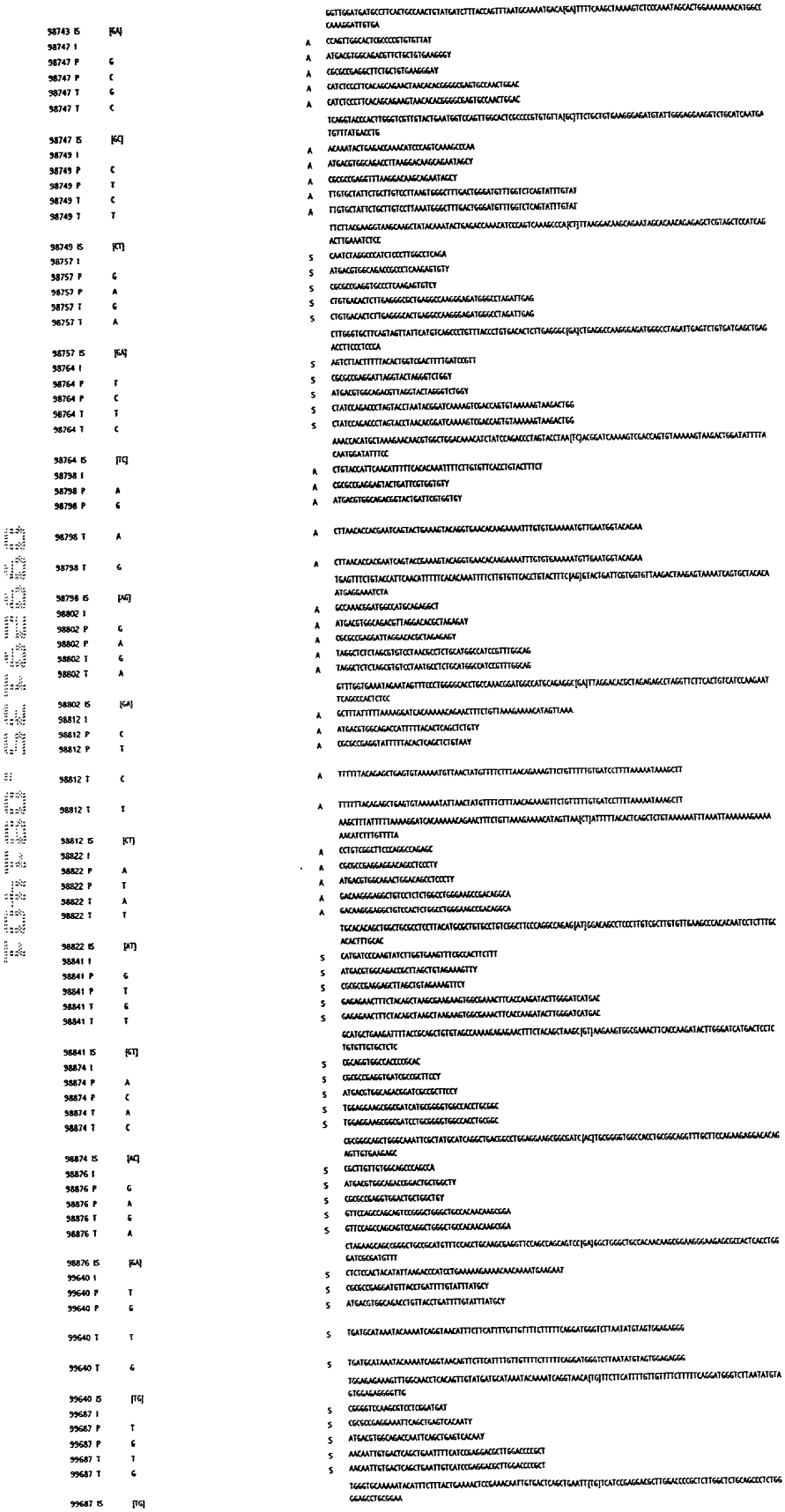


FIGURE 129C

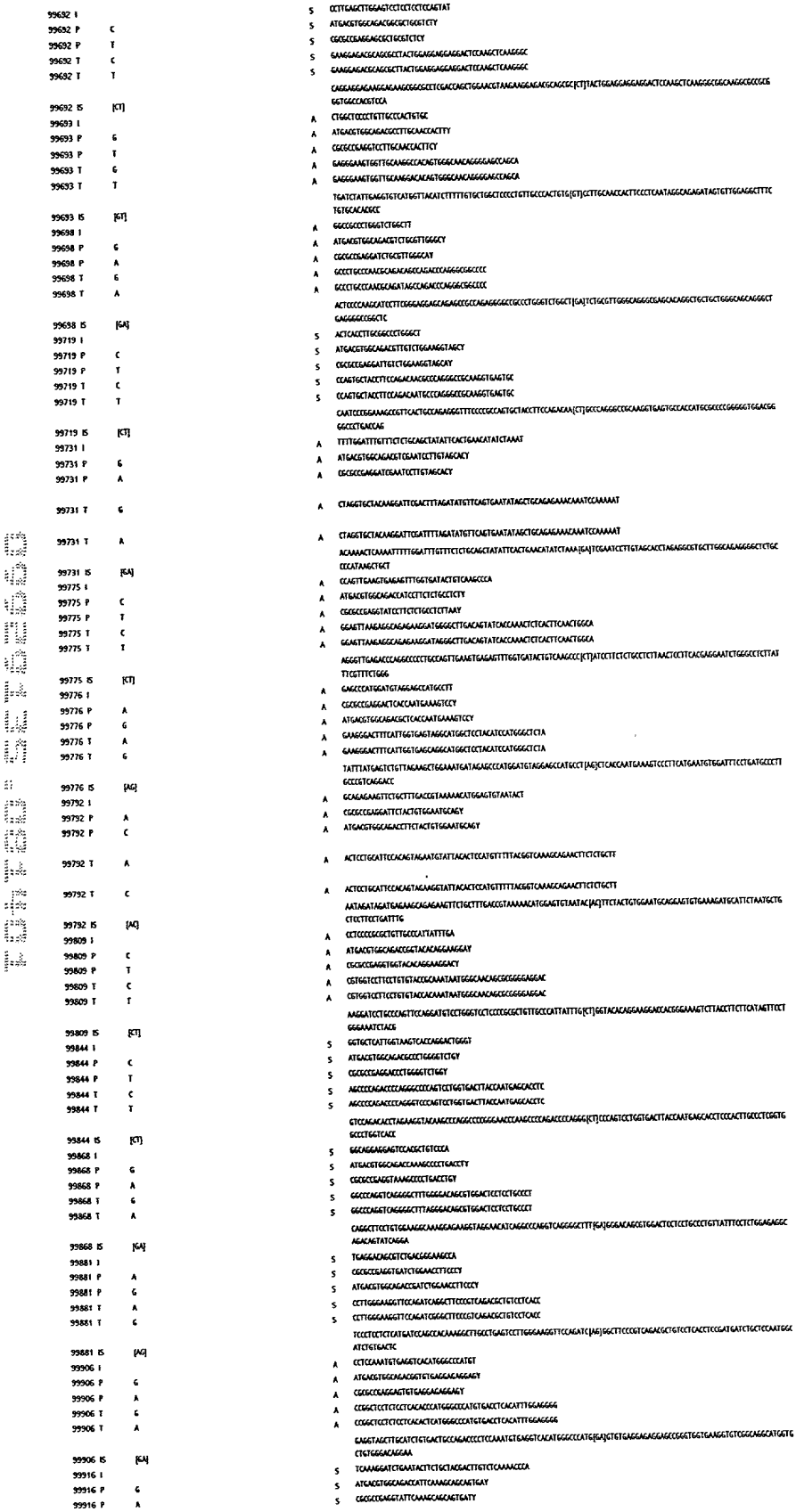


FIGURE 129C

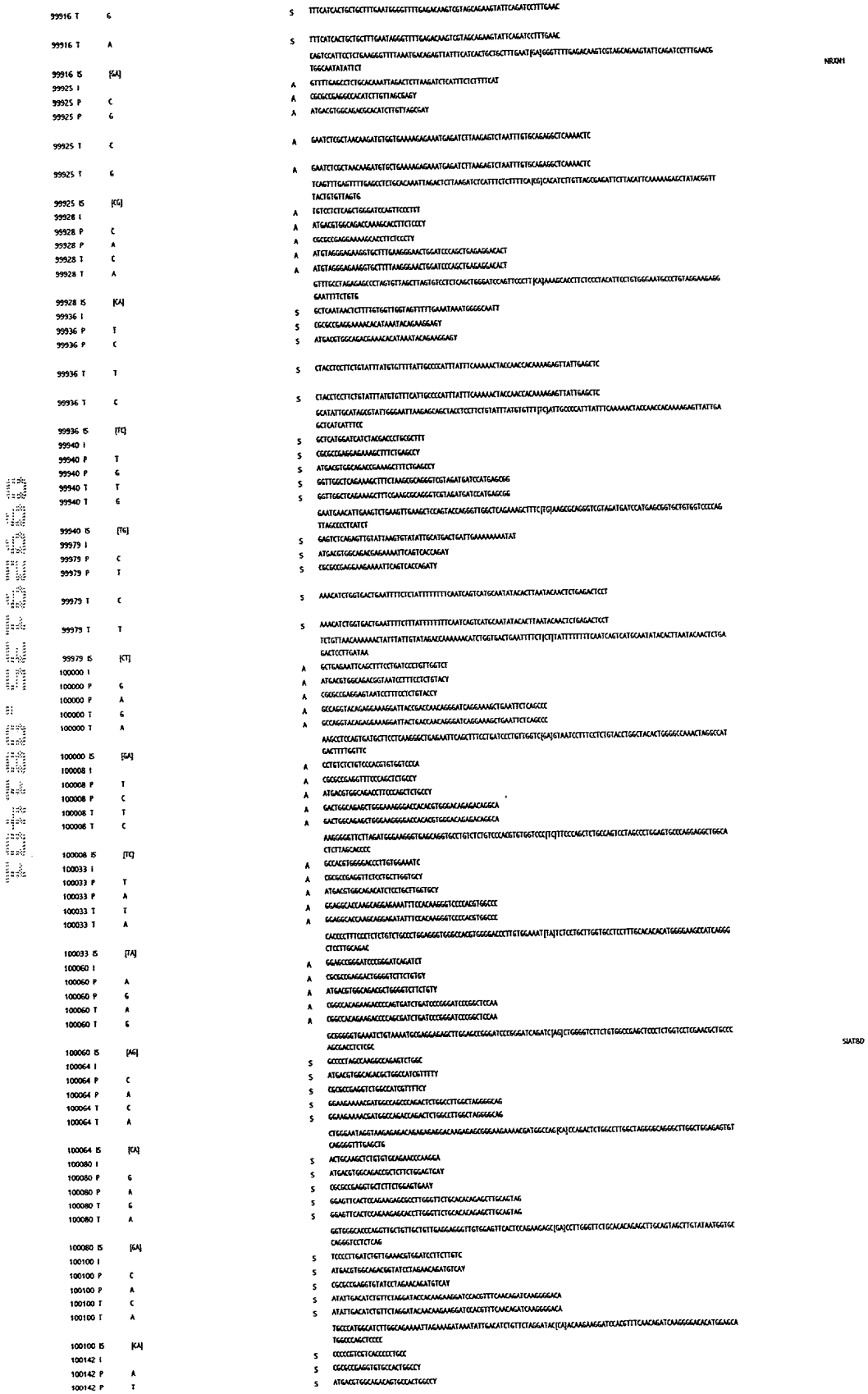


FIGURE 129C

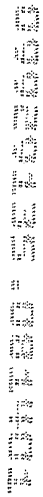


FIGURE 129C

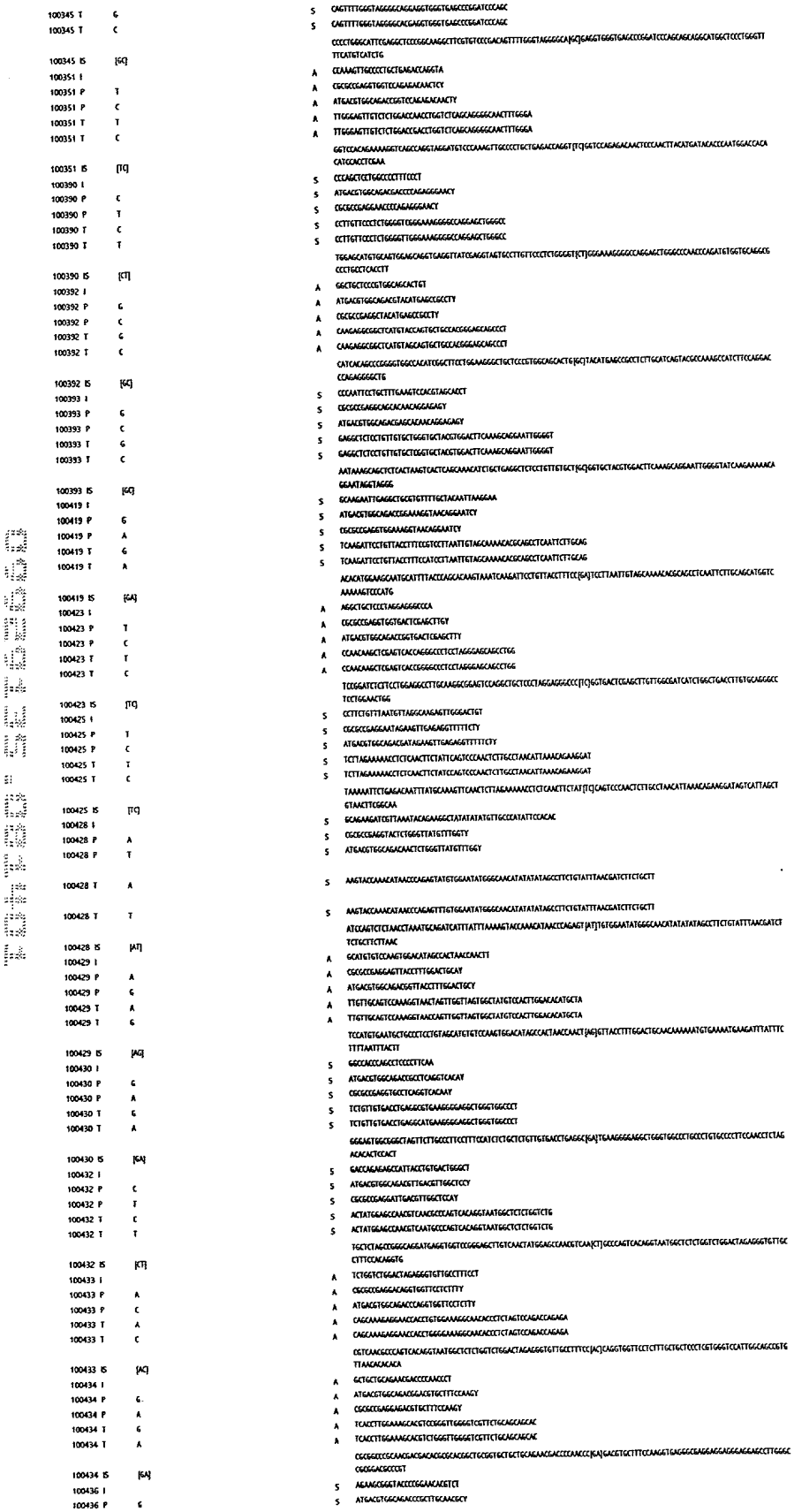


FIGURE 129C

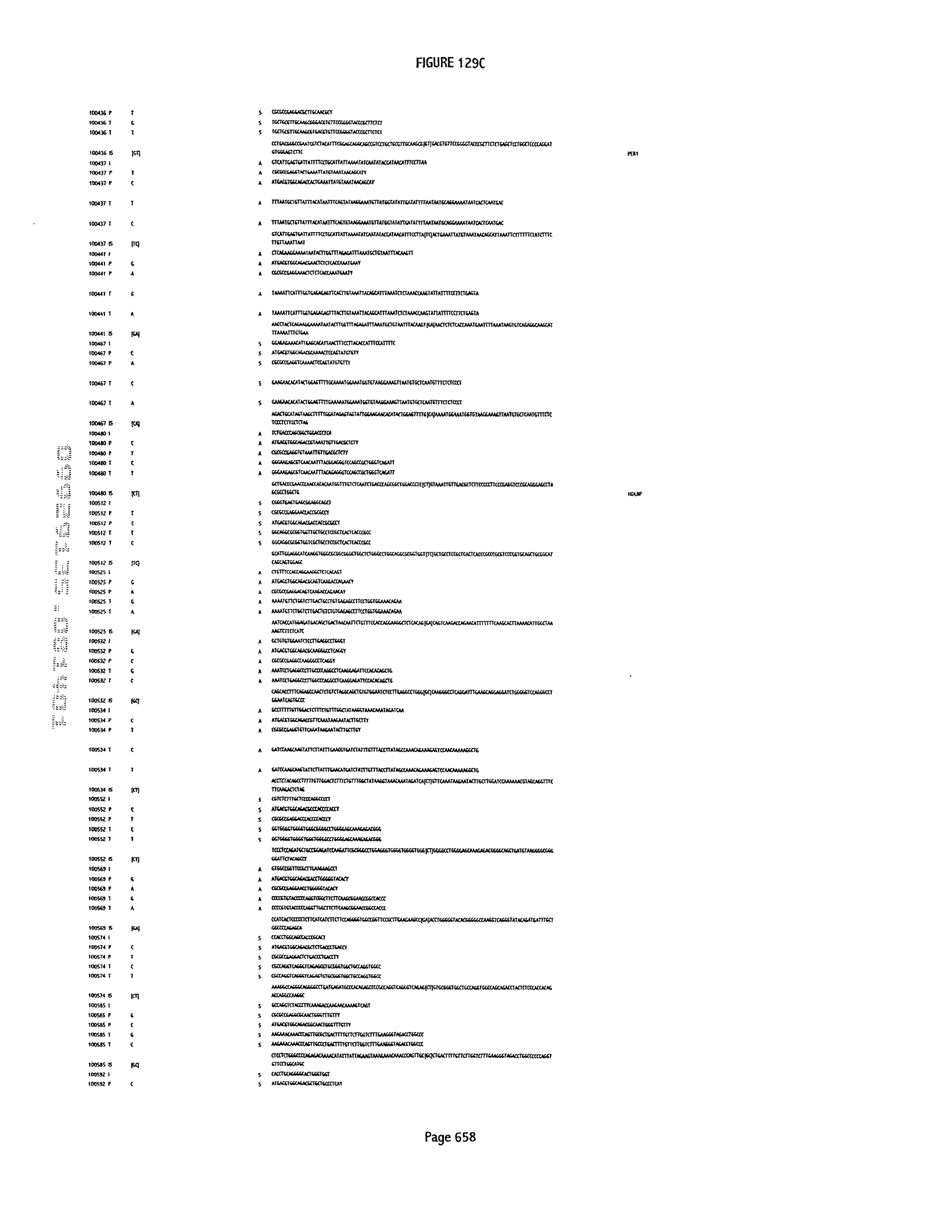




FIGURE 129C

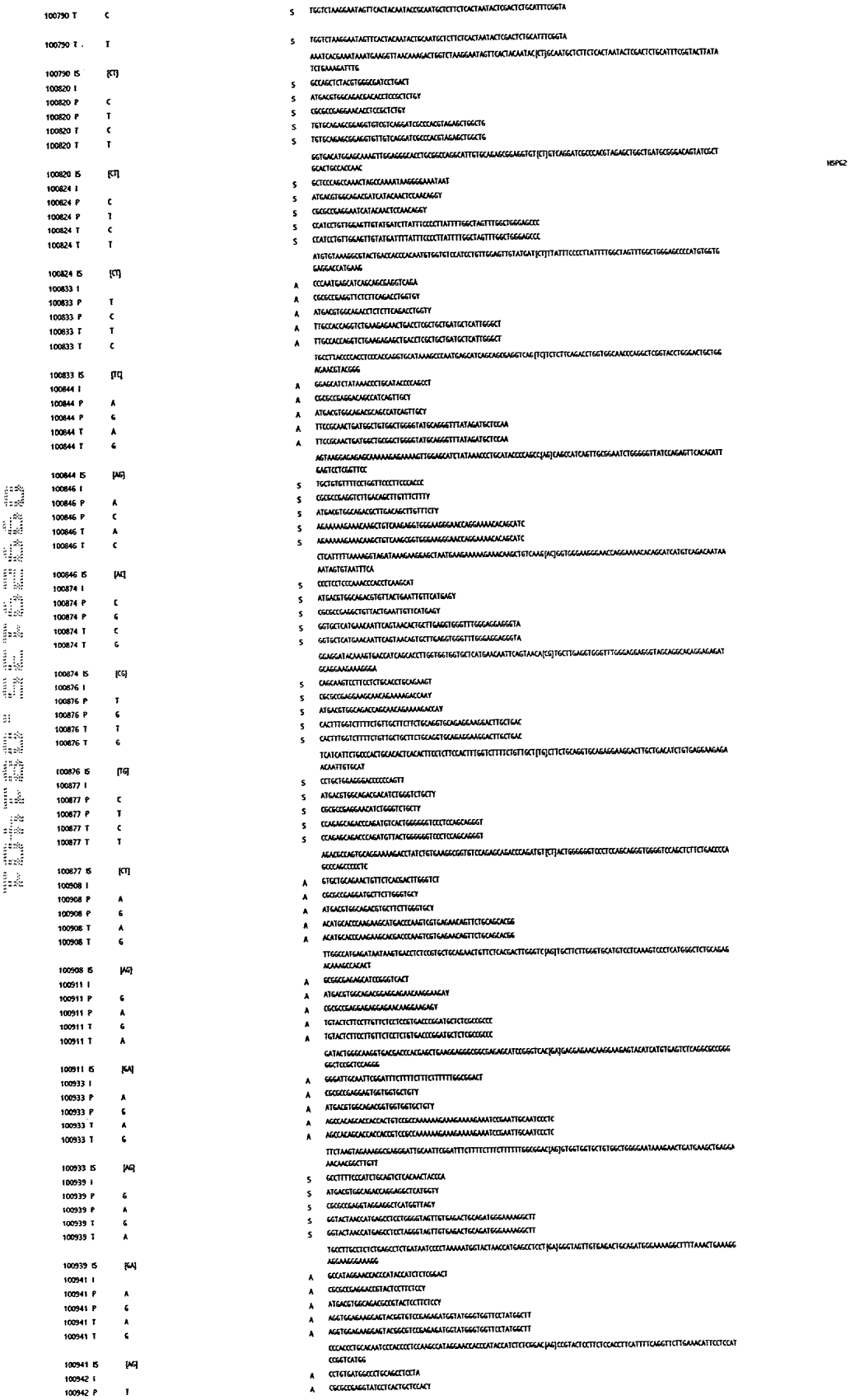


FIGURE 129C

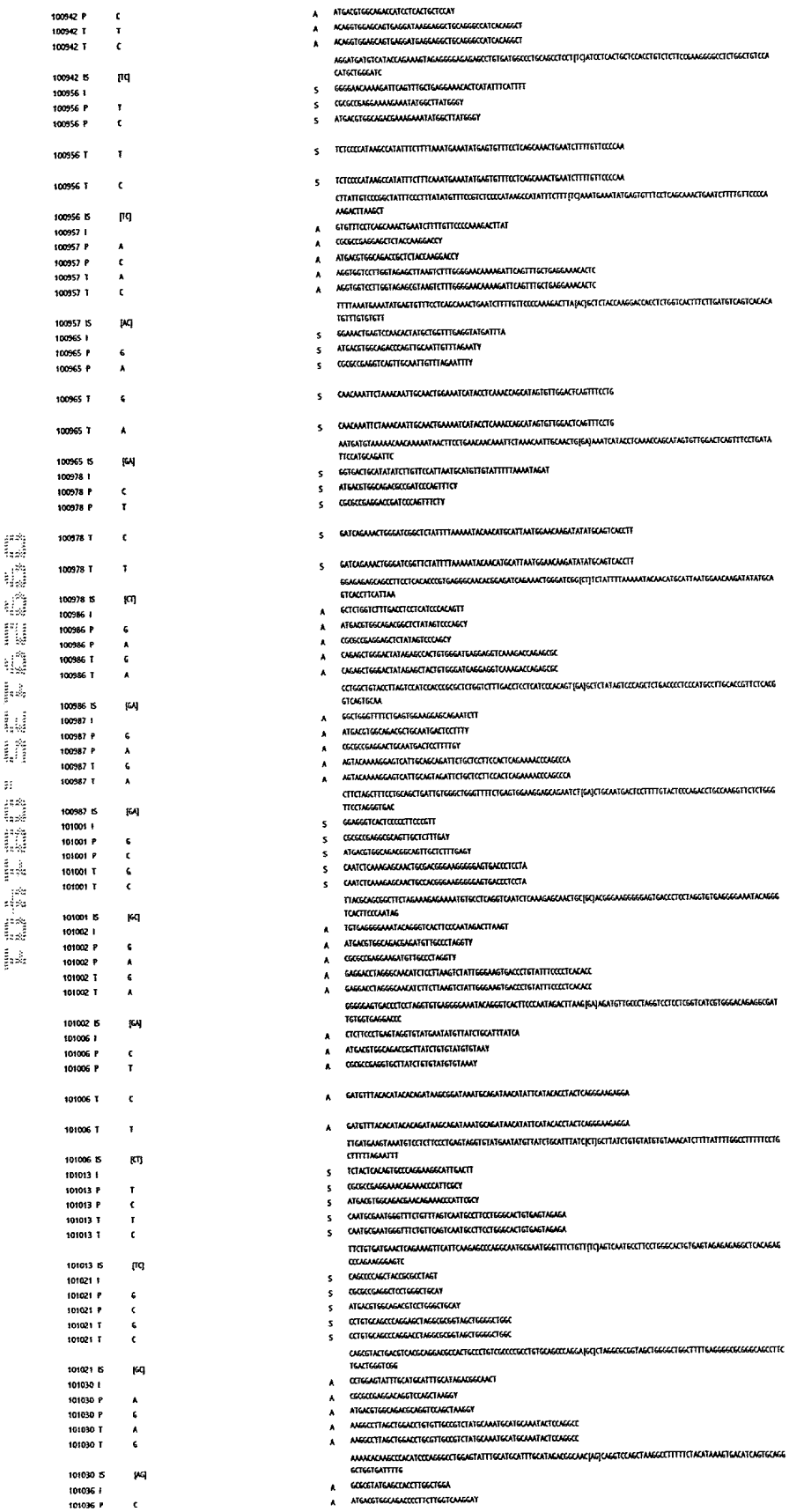

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100987 T A
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S CAATGCGAATGGGTTTCTGTTTAGTCAATGCCTTCCTGGGCACTGTGAGTAGAGA
101013 T C
S CAATGCGAATGGGTTTCTGTTCAGTCAATGCCTTCCTGGGCACTGTGAGTAGAGA
TTCTGTGATGAACTCAGAAAGTTCATTCAAGAGCCCAGGCAATGCGAATGGGTTTCTGTT[TC]AGTCAATGCCTTCCTGGGCACTGTGAGTAGAGACAGGCTCACAGAG
101013 IS [TC] CCCAGAAGGGAGTC
101021 I
S CAGCCCCAGCTACCGCGCCTAGT
101021 P G
S CGCGCCGAGGCTCCTGGGCTGCAY
101021 P C
S ATGACGTGGCAGACGTCCTGGGCTGCAY
101021 T G
S CCTGTGCAGCCCAGGAGCTAGGCGCGGTAGCTGGGGCTGGC
101021 T C
S CCTGTGCAGCCCAGGACCTAGGCGCGGTAGCTGGGGCTGGC
CAGCGTACTGACGTCAGCAGGAAGCCACTGCCCTGTCGCCCCGCCTGTGCAGCCCAGGA[GC]CTAGGCGCGGTAGCTGGGGCTGGCTTTTGAGGGGCGCGGGCAGCCTTC
101021 IS [GC] TGACTGGGTCGG
101030 I
A CCTGGAGTATTTGCATGCATTTGCATAGACGGCAACT
101030 P A
A CGGCCCGAGGACAGGTCCAGCTAAGGY
101030 P G
A ATGACGTGGCAGACGCAGGTCCAGCTAAGGY
101030 T A
A AAGGCCTTAGCTGGACCTGTGTTGCCGTCTATGCAAATGCATGCAAATACTCCAGGCC
101030 T G
A AAGGCCTTAGCTGGACCTGCGTTGCCGTCTATGCAAATGCATGCAAATACTCCAGGCC
AAAACACAAGCCCACATCCCAGGGCCTGGAGTATTTGCATGCATTTGCATAGACGGCAAC[AG]CAGGTCCAGCTAAGGCCTTTTTCTACATAAAAGTGACATCAGTGCAGG
101030 IS [AG] GCTGGTGATTTTG
101036 I
A GCGCGTATGAGCCACCTTGGCTGGA
101036 P C
A ATGACGTGGCAGACCCCTTCTTGGTCAAGGAY

FIGURE 129C

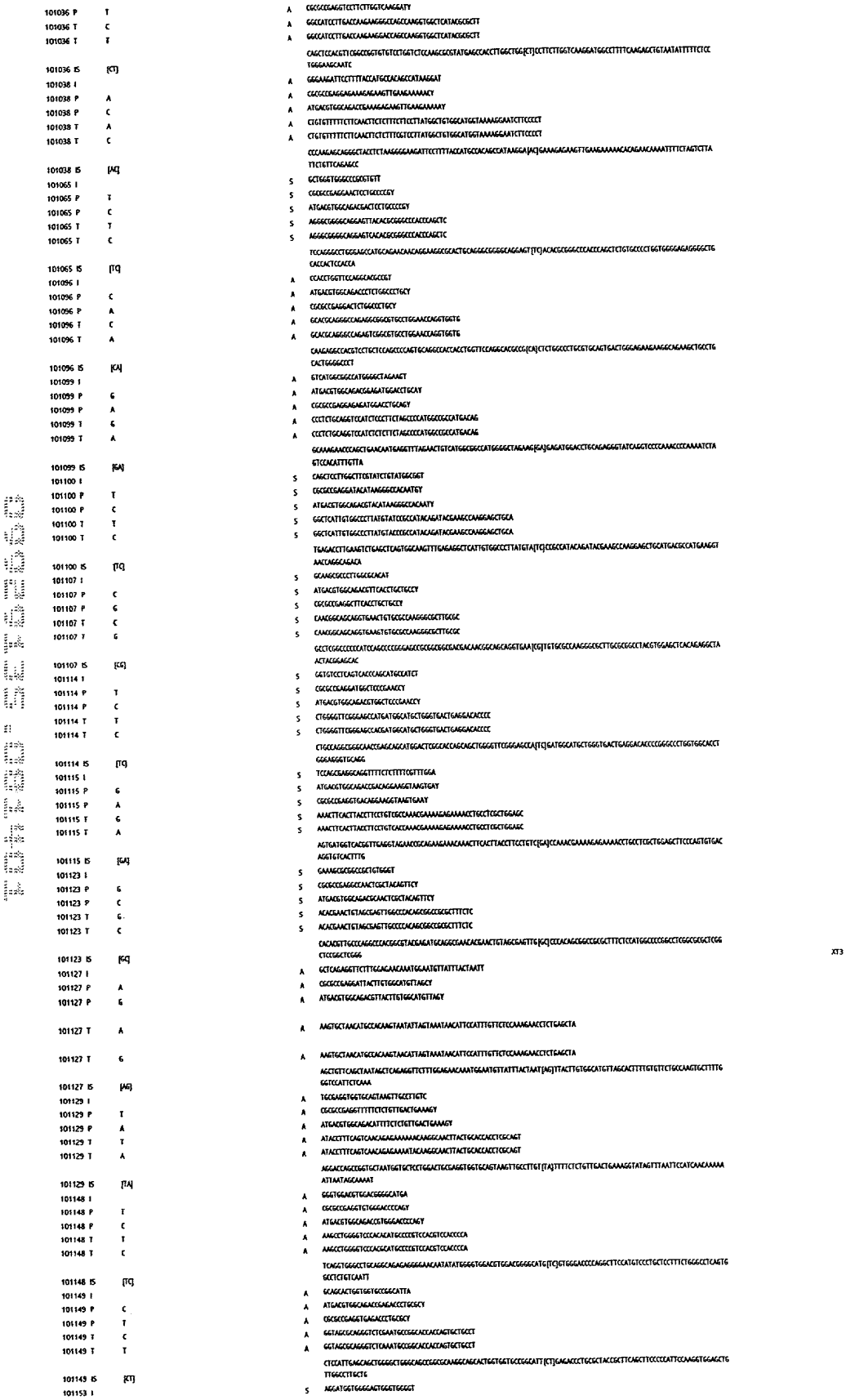


FIGURE 129C

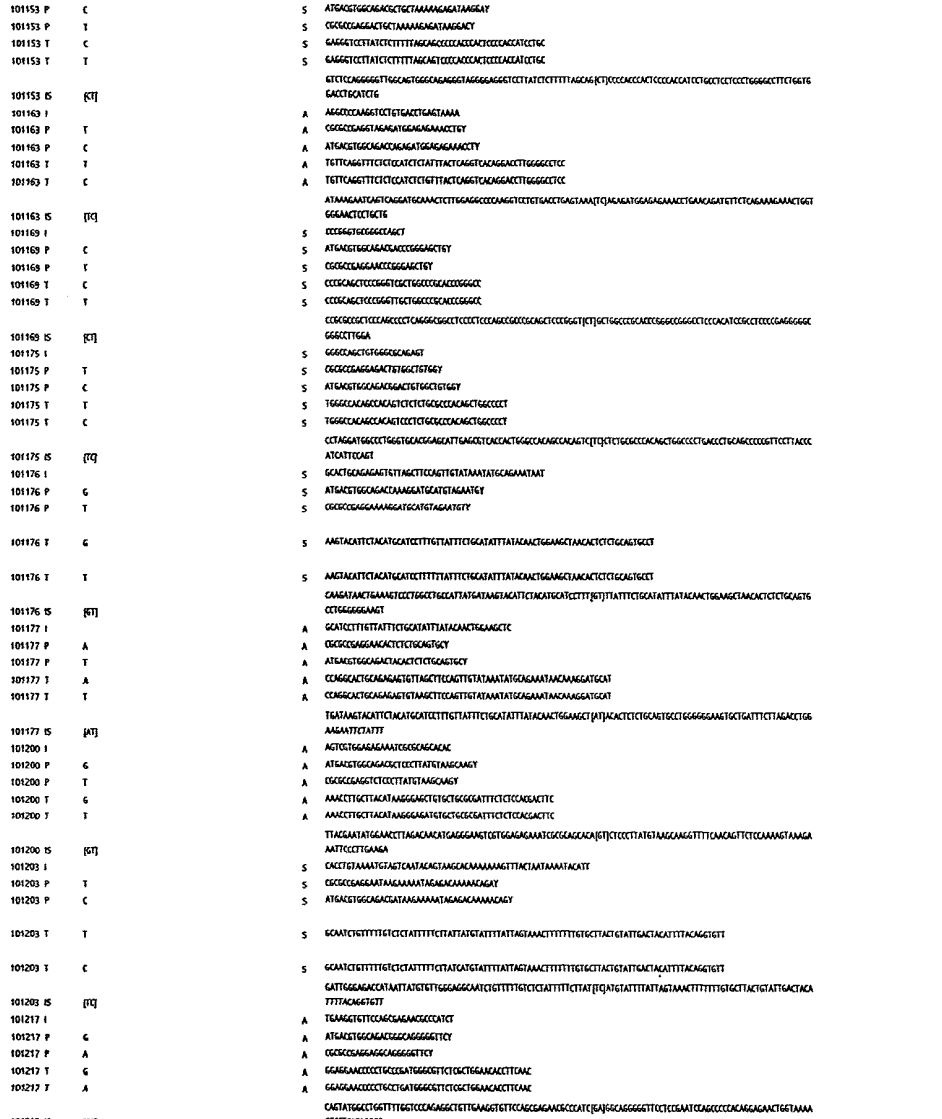


FIGURE 129C

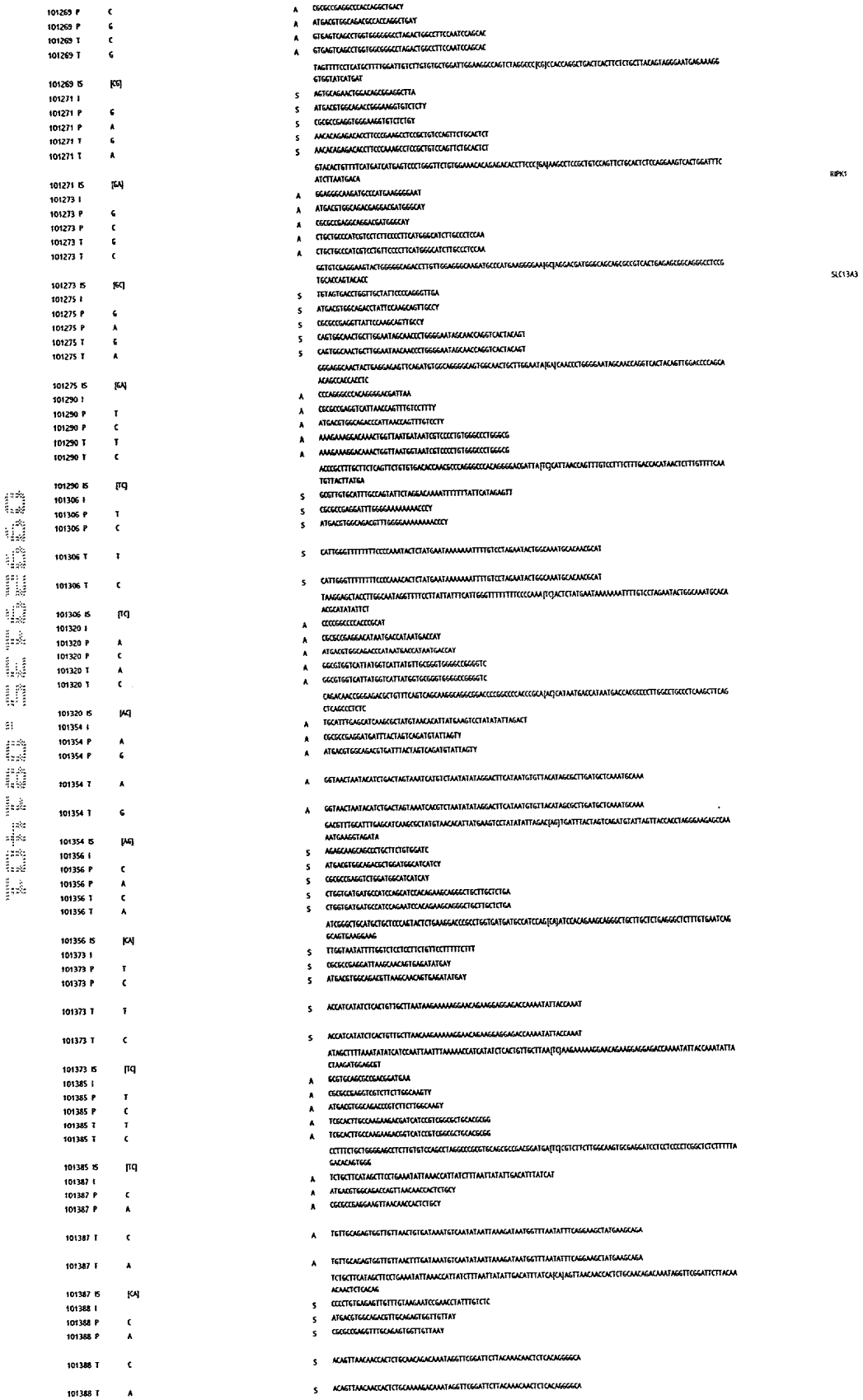
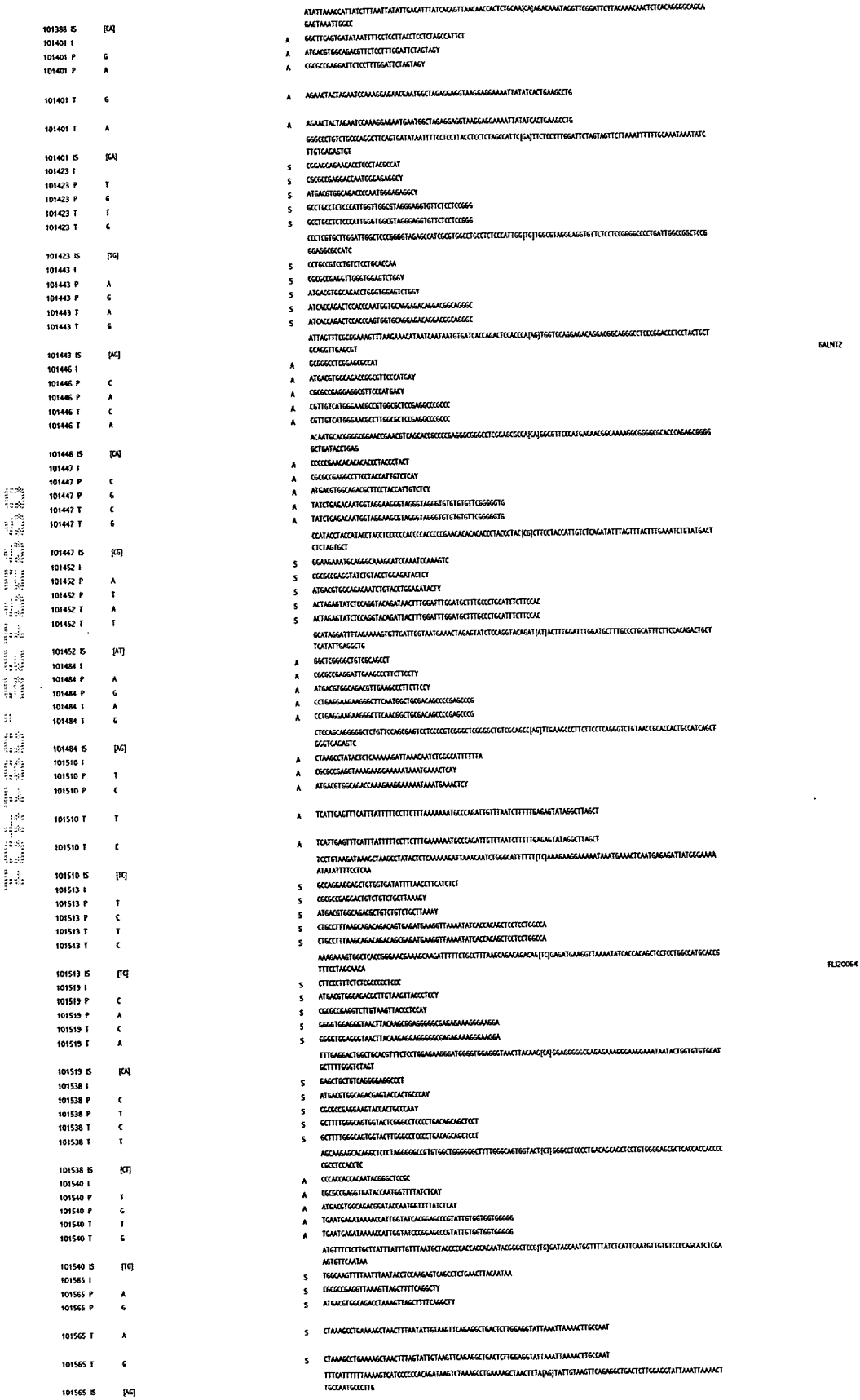
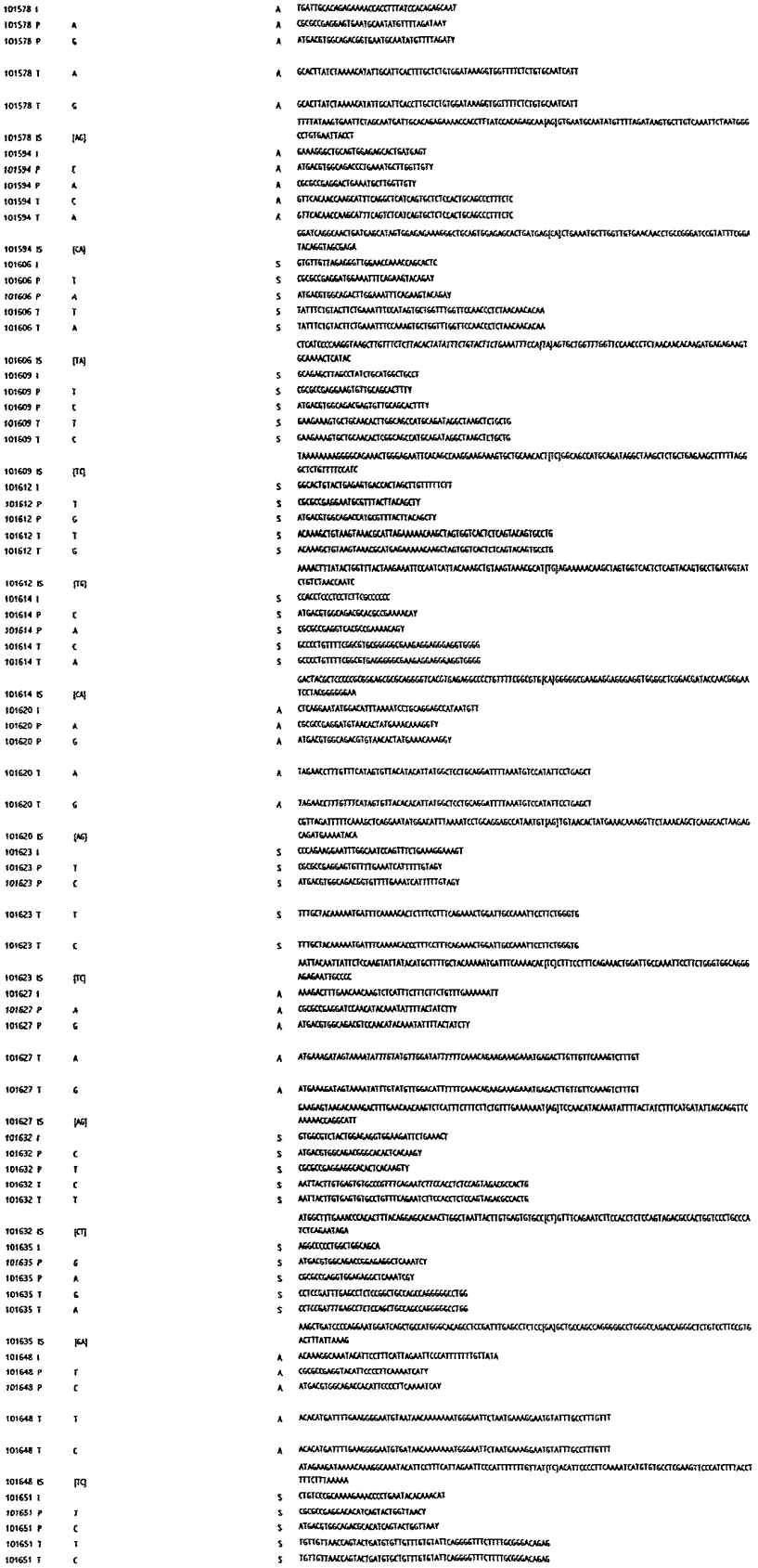
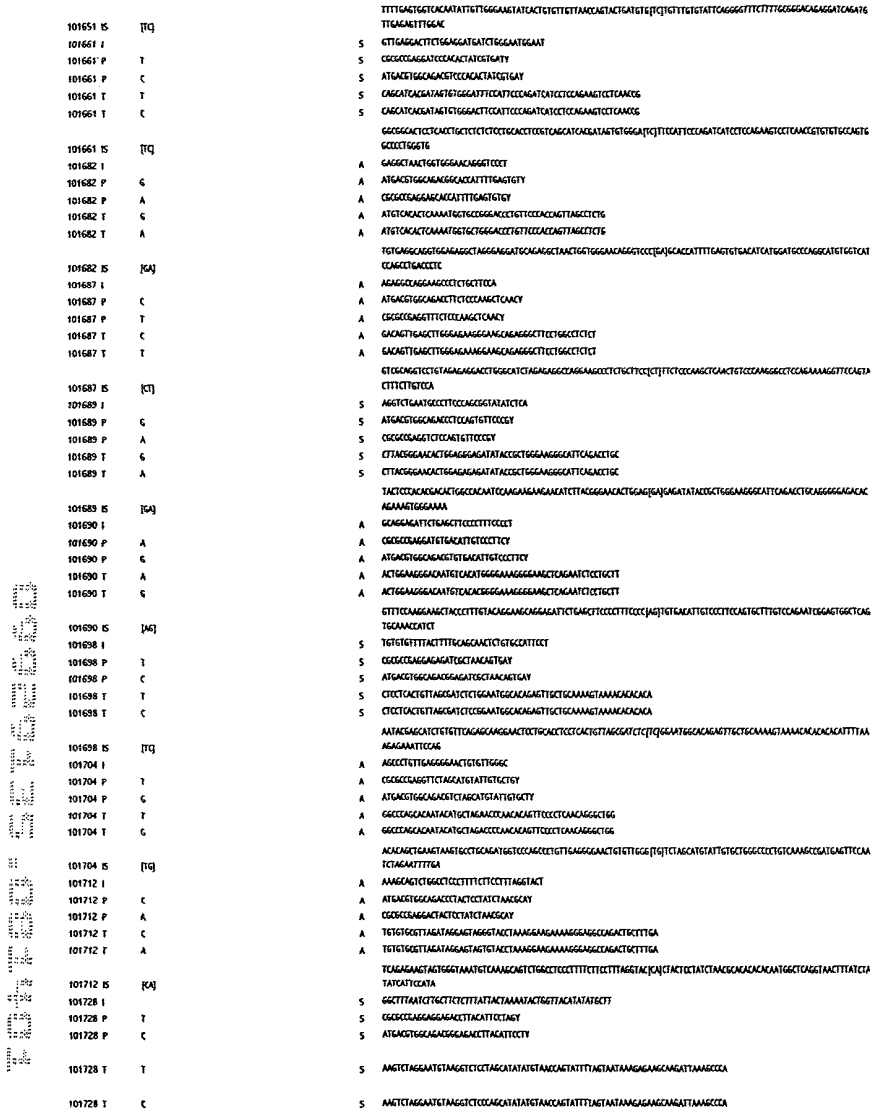


FIGURE 129C




101578 I A TGATTGCACAGAGAAAACCACCTTTATCCACACAGCAAT
101578 P A A CGCGCCGAGGAGTGAATGCAATATGTTTTAGATAAY
101578 P G A ATGACGTGGCAGACGGTGAATGCAATATGTTTTAGATY
101578 T A A GCACTTATCTAAAACATATTGCATTCACTTTGCTCTGTGGATAAAGGTGGTTTTCTCTGTGCAATCATT
101578 T G A GCACTTATCTAAAACATATTGCATTCACCTTGCTCTGTGGATAAAGGTGGTTTTCTCTGTGCAATCATT
101578 IS [AG] TTTTATAAGTGAATTCTAGCAATCATTGCACAGAGAAAACCACCTTTATCCACACAGCAA[AG]GTGAATGCAATATGTTTTAGATAAGTGCTTGTCAAATTCTAATGGGCCTGTGAATTACCT
101594 I A GAAAGGCCTGCAGTGGAGAGCACTGATCAGT
101594 P C A ATGACGTGGCAGACCCTGAAATGCTTGGTTGTY
101594 P A A CGCGCCGAGGACTGAAATGCTTGGTTGTY
101594 T C A GTTCACAACCAAGCATTTCAGGCTCATCAGTGCTCTCCACTGCAGCCCTTTCTC
101594 T A A GTTCACAACCAAGCATTTCAGTCTCATCAGTGCTCTCCACTGCAGCCCTTTCTC
101594 IS [CA] GGATCAGGCAACTGATGAGCATAGTGGAGACGAAAGGCTGCAGTGCAGAGCACTGATGAG[CA]CTGAAATGCTTGGTTGTGAACAACCTGCCGGGATCCGTATTTCGGATACAGGTAGCGAG
101606 I S GTGTTGTTAGAGGGTTGGAACCAAACCAGCACTC
101606 P T S CGCGCCGAGGATGGAAATTTCAGAAGTACAGAY
101606 P A S ATGACGTGGCAGACTTGGAAATTTCAGAAGTACAGAY
101606 T T S TATTTCTGTACTTCTGAAATTTCCATAGTGCTGGTTTGGTTCCAACCCTCTAACAACACAA
101606 T A S TATTTCTGTACTTCTGAAATTTCCAAAGTGCTGGTTTGGTTCCAACCCTCTAACAACACAA
101606 IS [TA] CTCATCCCCAGGGTAAGCTTGTTTCTCTTACACTATATTTCTGTACTTCTGAAATTTCCA[TA]AGTGCTGGTTTGGTTCCAACCCTCTAACAACACAAGATGAGAGAAGTGCAAAACTCATAC
101609 I S GCAGAGCTTAGCCTATCTGCATGGCTGCCT
101609 P T S CGCGCCGAGGAAGTGTTGCAGCACTTTY
101609 P C S ATGACGTGGCAGACGAGTGTTGCAGCACTTTY
101609 T T S GAAGAAAGTGCTGCAACACTTGGCAGCCATGCAGATAGGCTAAGCTCTGCTG
101609 T C S GAAGAAAGTGCTGCAACACTCGGCAGCCATGCAGATAGGCTAAGCTCTGCTG
101609 IS [TC] TAAAAAAAAGGGGCACAAACTGGGAGAATTCACAGCCAAGGAAGAAAGTGCTGCAACACT[TC]GGCAGCCATGCAGATAGGCTAAGCTCTGCTGAGAAGCTTTTTAGGGCTCTGTTTCCATC
101612 I S GGCACTGTACTGAGAGTGACCACTAGCTTGTTTTCTT
101612 P T S CGCGCCGAGGAAGTGCTTGCAGCACTTTY
101612 P G S ATGACGTGGCAGACCATGCGTTTACTTACAGCTY
101612 T T S ACAAAGCTGTAAGTAAACGCATTAGAAAAACAAGCTAGTGGTCACTCTCAGTACAGTGCCTG
101612 T G S ACAAAGCTGTAAGTAAACGCATGAGAAAACAAGCTAGTGGTCACTCTCAGTACAGTGCCTG
101612 IS [TG] AAAACTTATACTGGTTTACTAAGAAATTCCAATCATTACAAAGCTGTAAGTAAACGCAT[TG]AGAAAAACAAGCTAGTGGTCACTCTCAGTACAGTGCCTGATGGTATCTGTCTAACCAATC
101614 I S CCACCTCCCTCCTCTTCGCCCCCC
101614 P C S ATGACGTGGCAGACGCACGCCGAAAACAY
101614 P A S CGCGCCCAGGTCACGCCCAAAACAGY
101614 T C S GCCCCTGTTTTCGGCGTGCGGGGGCGAAGAGAGGGAGGTGGGG
101614 T A S GCCCCTGTTTTCGGCGTGAGGGGGCGAAGAGAGGGAGGTGGGG
101614 IS [CA] GACTACGCTCCCCCGCGGGAGCCGCGCAGGGGTCACGTGAGAGGCCCCTGTTTTCGGCGTG[CA]GGGGGCGAAGAGAGGGAGGTGGGGCTCGGACGATACCAACGGGAATCCTACGGGGGGAA
101620 I A CTCAGGAATATTGGACATTTAAAATCCTGCAGGAGCCATAATGTT
101620 P A A CGCGCCGAGGATGTAACACTATGAAACAAGGTY
101620 P G A ATGACGTGGCAGACGTGTAACACTATGAAACAAGGY
101620 T A A TAGAACCTTGTTTCATAGTGTTACATACATTATGGCTCCTGCAGGATTTTAAATGTCCATATTCCTGAGCT
101620 T G A TAGAACCTTGTTTCATAGTGTTACACACATTATGGCTCCTGCAGGATTTTAAATGTCCATATTCCTGAGCT
101620 IS [AG] CGTTAGATTTTTCAAAGCTCAGGAATATGGACATTTAAAATCCTGCAGGAGCCATAATGT[AG]TGTAACACTATGAAACAAAGGTTCTAAACAGCTCAAGCACTAAGAGCAGATGAAAATACA
101623 I S CCCAGAAGGAATTTGGCAATCCAGTTTCTGAAAGGAAAGT
101623 P T S CGCGCCGAGGAGTGTTTTGAAATCATTTTTGTAGY
101623 P C S ATGACGTGGCAGACGGTGTTTTGAAATCATTTTTGTAGY
101623 T T S TTTGCTACAAAAATGATTTCAAAACACTCTTTCCTTTCAGAAACTGGATTGCCAAATTCCTTCTGGGTG
101623 T C S TTTGCTACAAAAATGATTTCAAAACACCCTTTCCTTTCAGAAACTGGATTGCCAAATTCCTTCTGGGTG
101623 IS [TC] AATTACAATTATTCTCCAAGTATTATACATGCTTTTGCTACAAAAATGATTTCAAAACAC[TC]CTTTCCTTTCAGAAACTGGATTGCCAAATTCCTTCTGGGTGGCAGGGAGAGAATTGCCCC
101627 I A AAAGACTTTGAACAACAAGTCTCATTTCTTTCTTCTGTTTGAAAAAATT
101627 P A A CGCGCCCAGGATCCAACATACAAATATTTTACTATCTTY
101627 P G A ATGACGTGGCAGACGTCCAACATACAAATATTTTACTATCTY
101627 T A A ATGAAAGATAGTAAAATATTTGTATGTTGGATATTTTTTCAAACAGAAGAAAGAAATGAGACTTGTTGTTCAAAGTCTTTGT
101627 T G A ATGAAAGATAGTAAAATATTTGTATGTTGGACATTTTTTCAAACAGAAGAAAGAAATGAGACTTGTTGTTCAAAGTCTTTGT
101627 IS [AG] GAAGAGTAAGACAAAGACTTTGAACAACAAGTCTCATTTCTTTCTTCTGTTTGAAAAAAT[AG]TCCAACATACAAATATTTTACTATCTTTCATGATATTAGCAGGTTCAAAACCAGGCATT
101632 I S GTGGCGTCTACTGGACAGAGGTGGAAGATTCTGAAACT
101632 P C S ATGACGTGGCAGACGGGCACACTCACAAGY
101632 P T S CGCGCCGAGGAGGCACACTCACAAGTY
101632 T C S AATTACTTGTGAGTGTGCCGTTTCAGAATCTTCCACCTCTCCAGTAGACGCCACTG
101632 T T S AATTACTTGTGAGTGTGCCTGTTTCAGAATCTTCCACCTCTCCAGTAGACGCCACTG
101632 IS [CT] ATGGCTTTGAAACCCACACTTTACAGGAGCACAACTTGGCTAATTACTTGTGAGTGTGCC[CT]GTTTCAGAATCTTCCACCTCTCCAGTAGACGCCACTGGTCCCTGCCCATCTCAGAATAGA
101635 I S AGGCCCCCTGGCTGGCAGCA
101635 P G S ATGACGTGGCAGACCGGAGAGGCTCAAATCY
101635 P A S CGCGCCCAGGTGGAGAGGCTCAAATCGY
101635 T G S CCTCCGATTTGAGCCTCTCCGGCTGCCAGCCAGGGGCCTGG
101635 T A S CCTCCGATTTGAGCCTCTCCAGCTGCCAGCCAGGGGCCTGG
101635 IS [GA] AAGCTGATCCCCAGGAATGGATCAGCTGCCATGGGCACAGCCTCCGATTTGAGCCTCTCC[GA]GCTGCCAGCCAGGGGCCTGGGCCAGACCAGGCCTCTGTCCTTCCCTGACTTTATTAAAG
101648 I A ACAAAGCAAATACATTCCTTTCATTAGAATTCCCATTTTTTTGTTATA
101648 P T A CGCGCCGAGGTACATTCCCCTTCAAAATCATY
101648 P C A ATGACGTGGCAGACCACATTCCCCTTCAAAATCAY
101648 T T A ACACATGATTTGAAGGGGAATGTGAATAACAAAAAATGGGAATTCTAATGAAAGGAATGTATTTGCCTTTGTTT
101648 T C A ACACATGATTTTGAAGGGGAATGTGAATAACAAAAAATGGGAATTCTAATGAAAGGAATGTATTTGCCTTTGTTT
101648 IS [TC] ATAGAAGATAAAACAAAGGCAAATACATTCCTTTCATTAGAATTCCCATTTTTTTGTTATT[TC]ACATTCCCCTTCAAAATCATGTGTGCCTCGAAGTTCCCATCTTTACCTTTTCTTTAAAAA
101651 I S CTGTCCCGCAAAAGAAACCCCTGAATACACAAACAT
101651 P T S CGCGCCCAGCACACATCAGTACTGGTTAACY
101651 P C S ATGACGTGGCAGACGCACATCAGTACTGGTTAAY
101651 T T S TGTTGTTAACCAGTACTGATGTGTTGTTTGTGTATTCAGGGGTTTCTTTTGGGGGACAGAG
101651 T C S TGTTGTTAACCAGTACTGATGTGCTGTTTGTGTATTCAGGGGTTTCTTTTGGGGGACAGAG



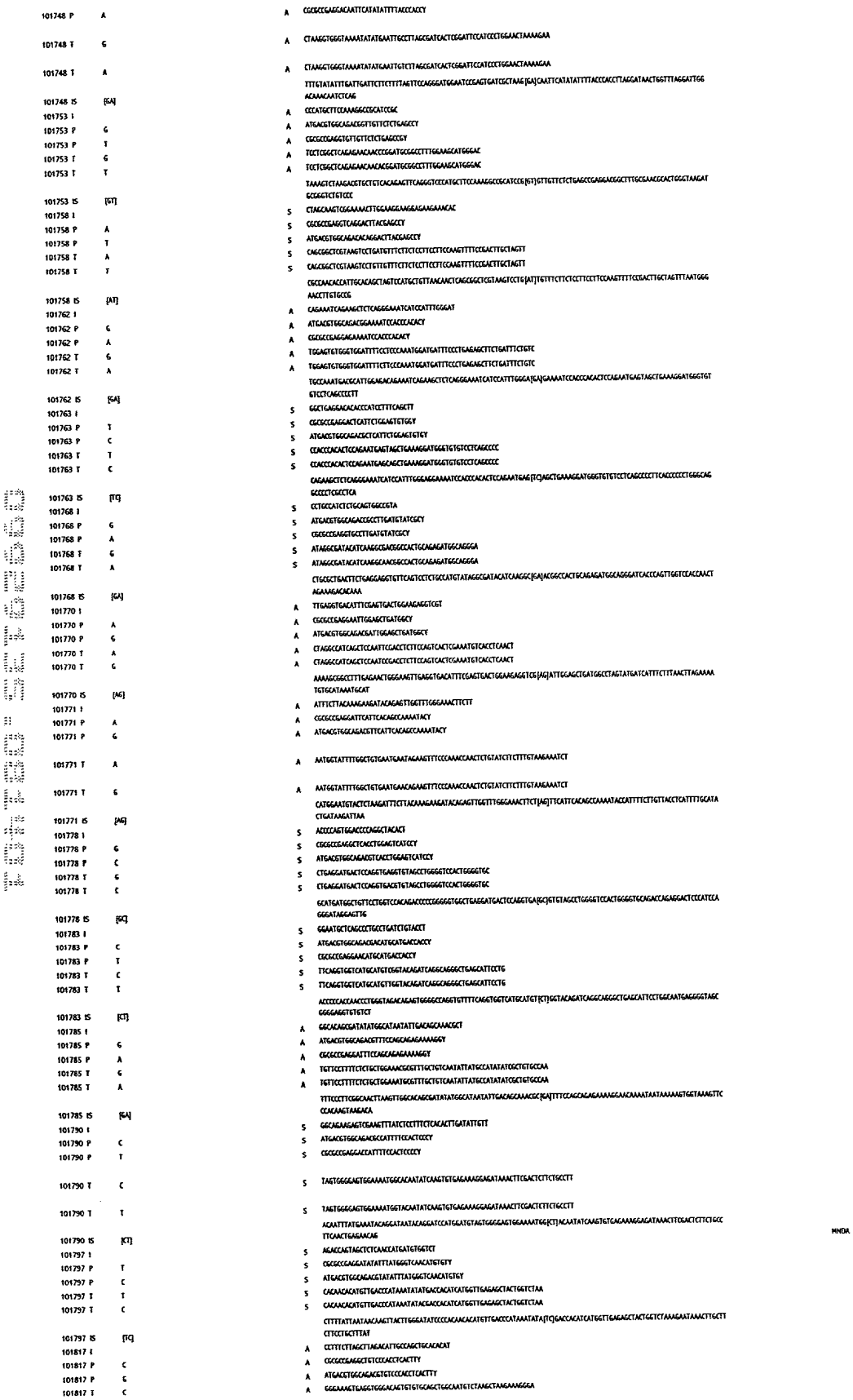
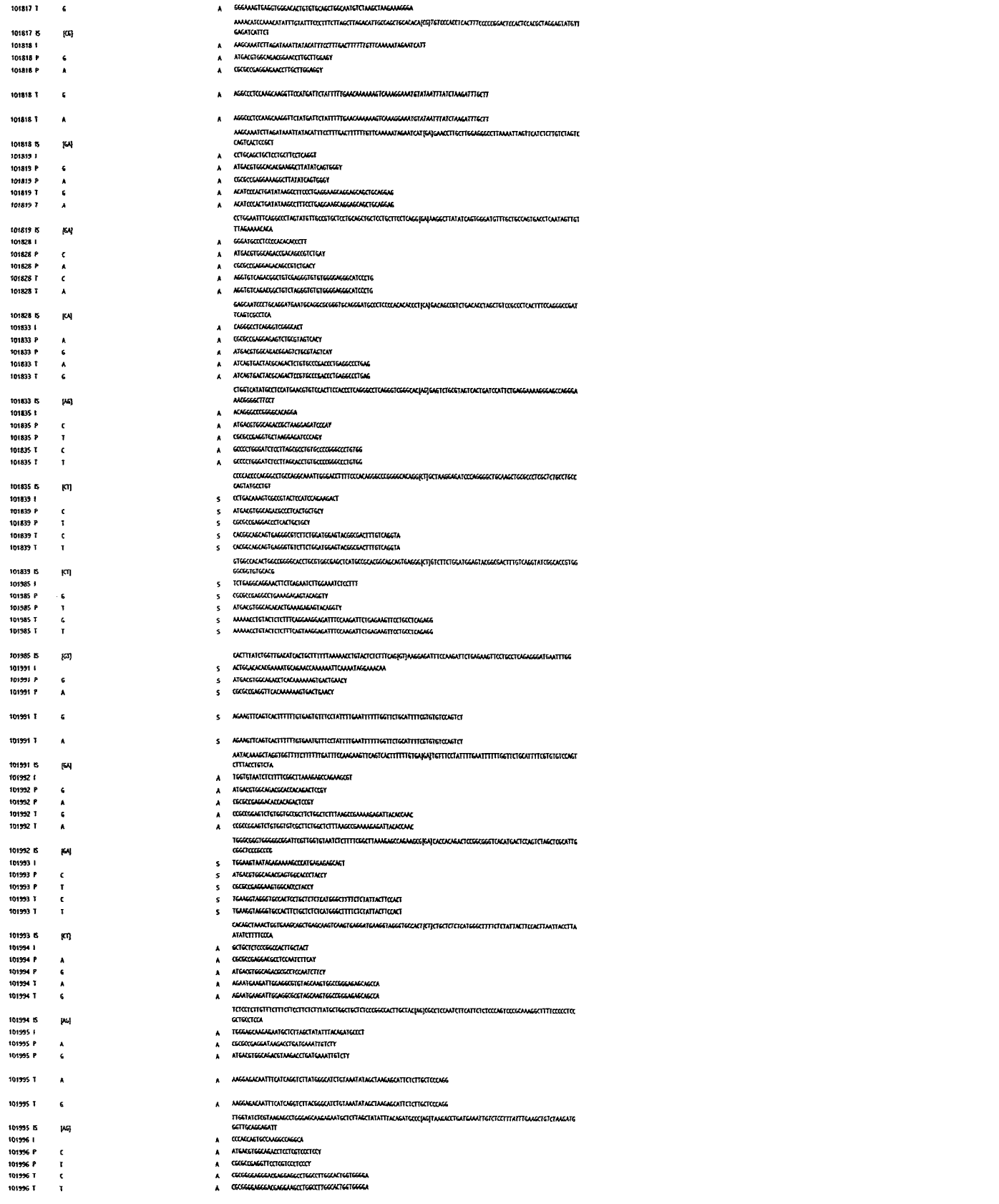


FIGURE 129C



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FIGURE 129C

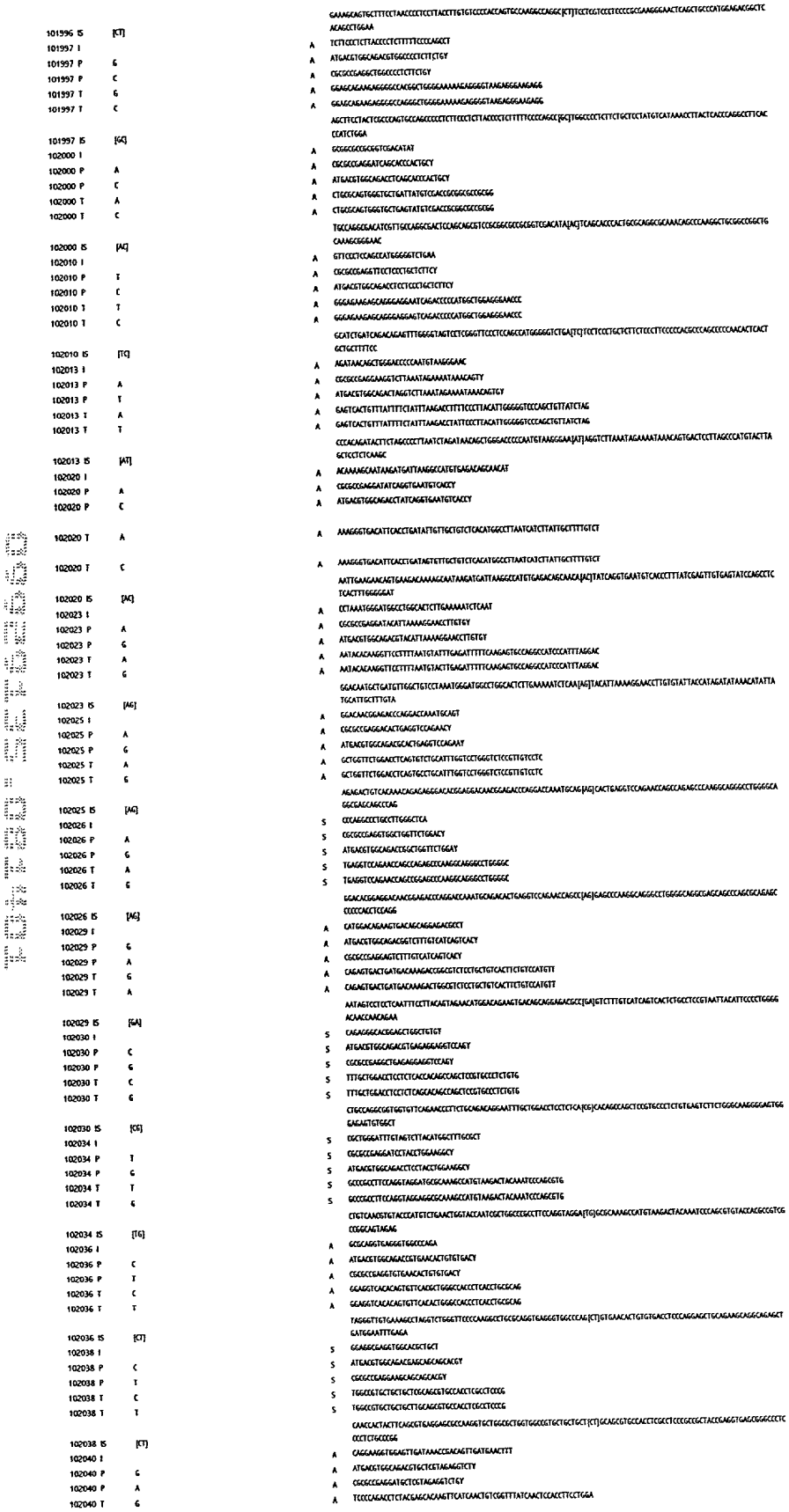


FIGURE 129C

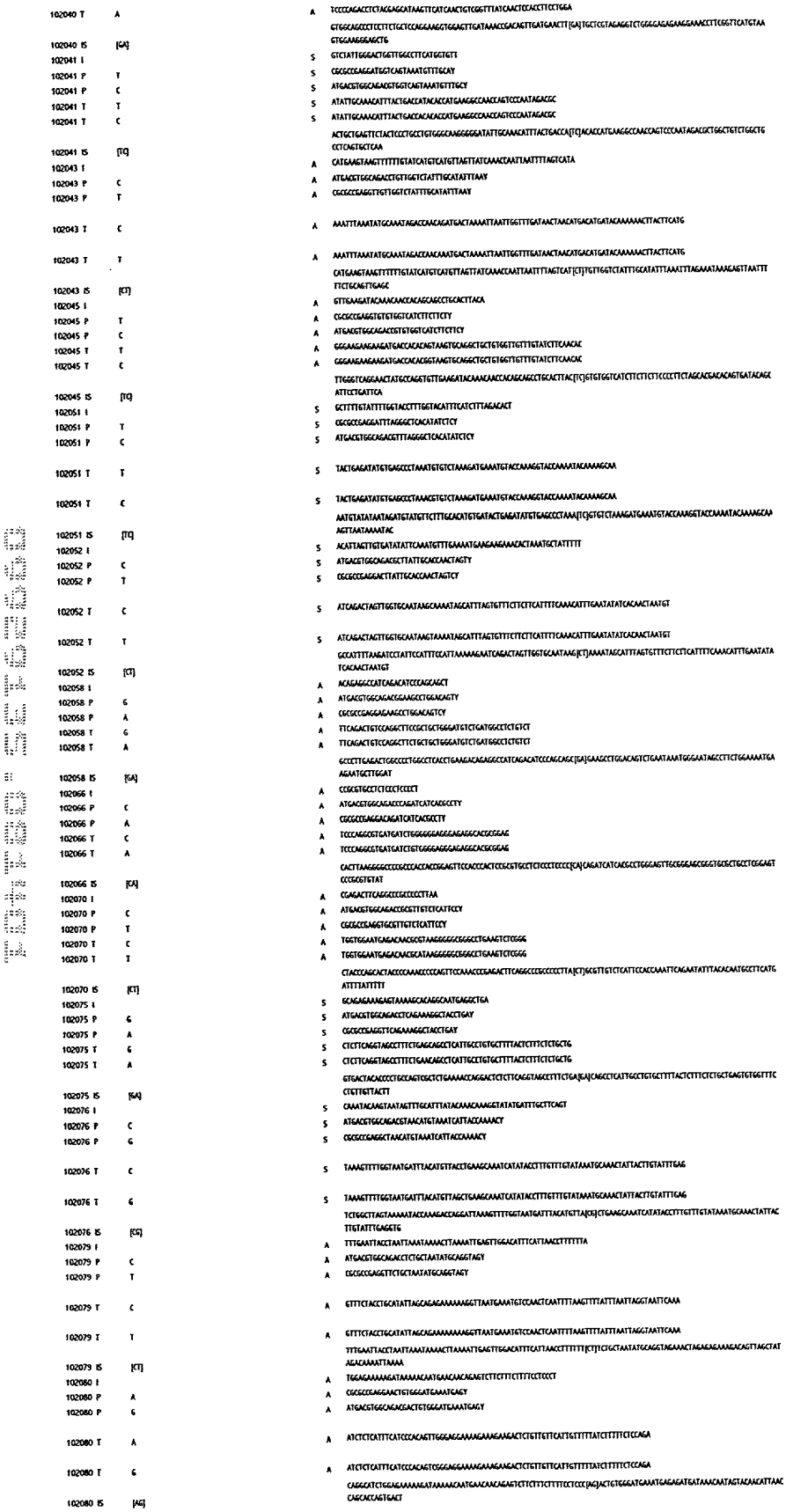
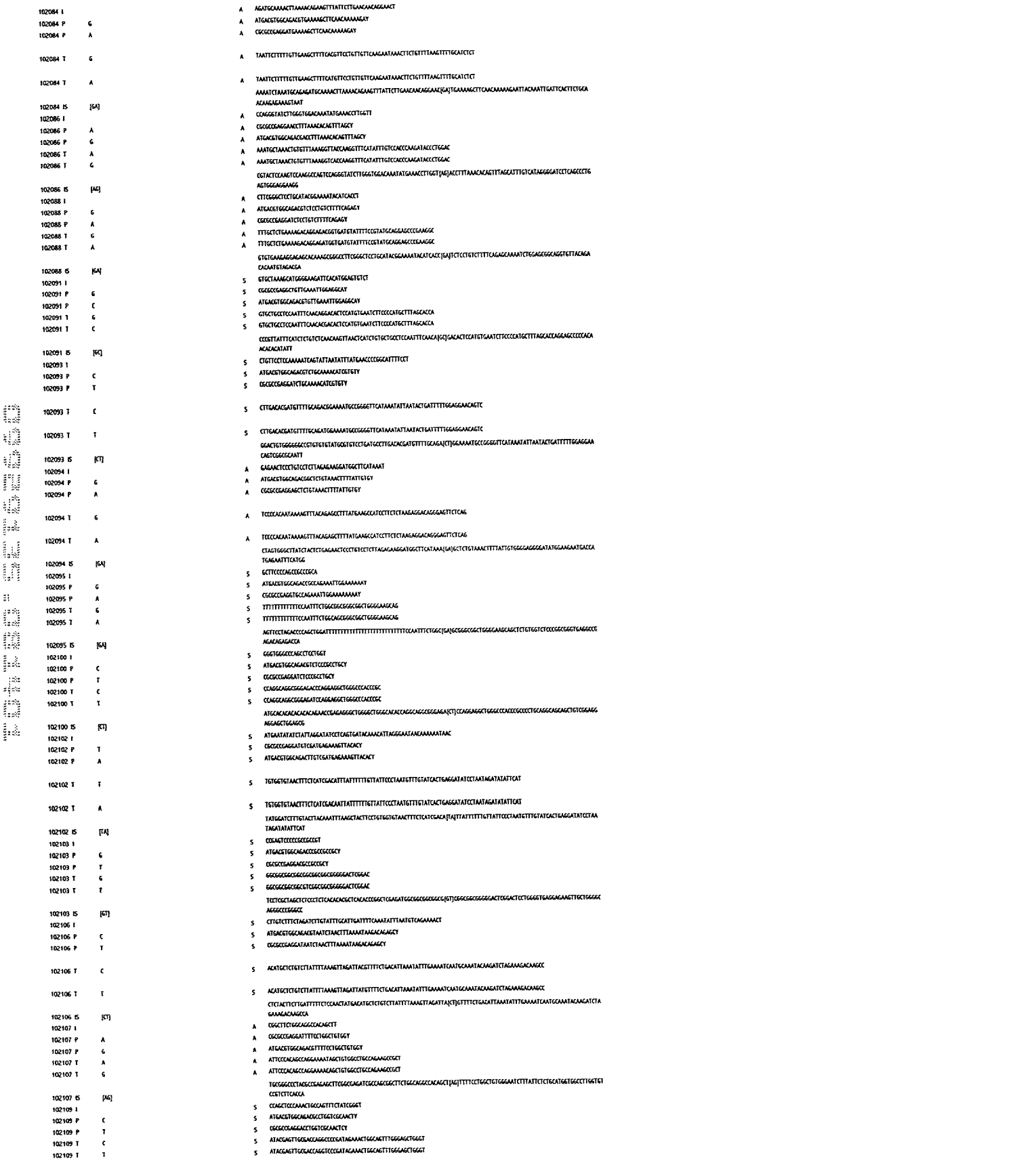
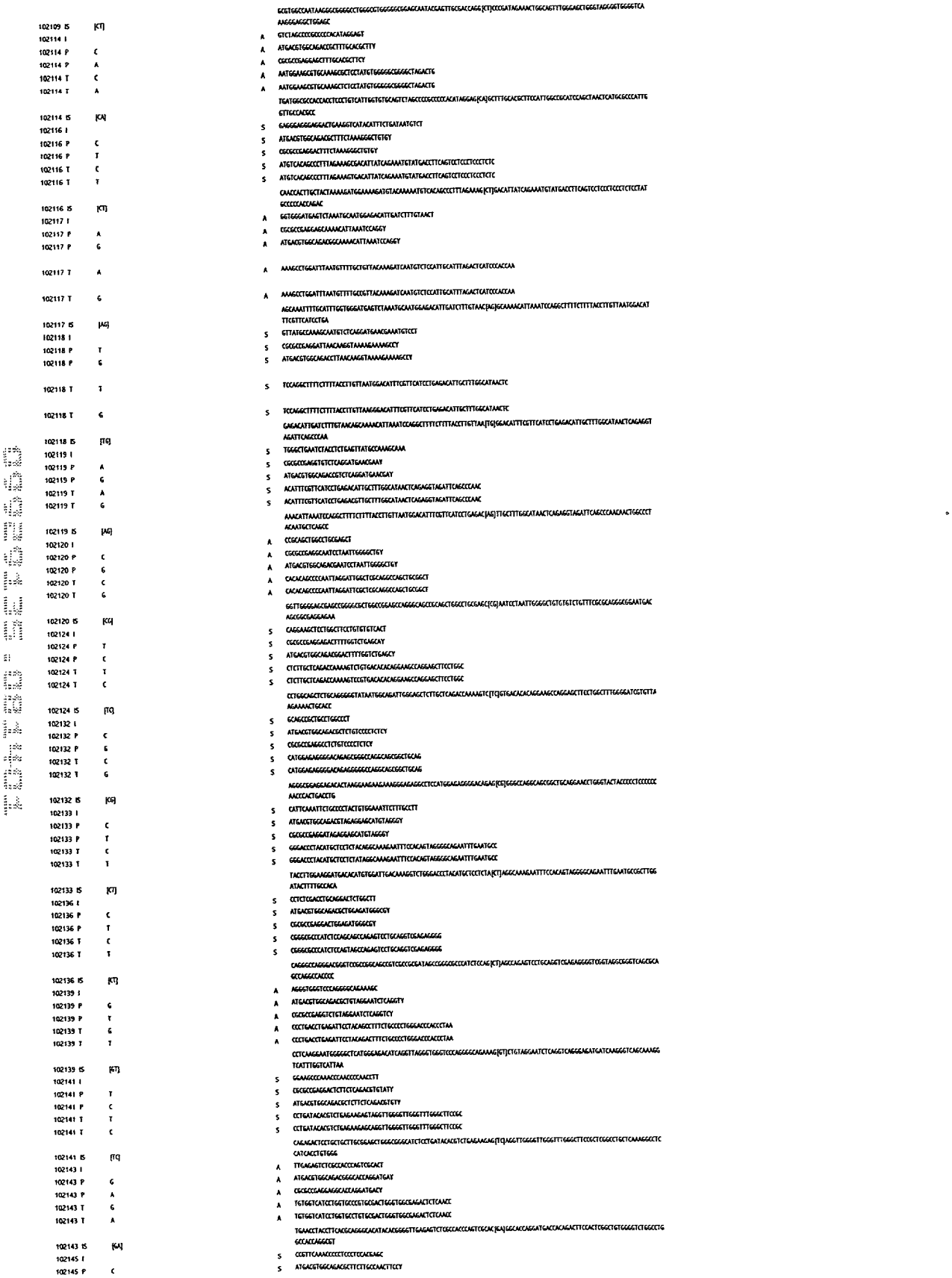


FIGURE 129C





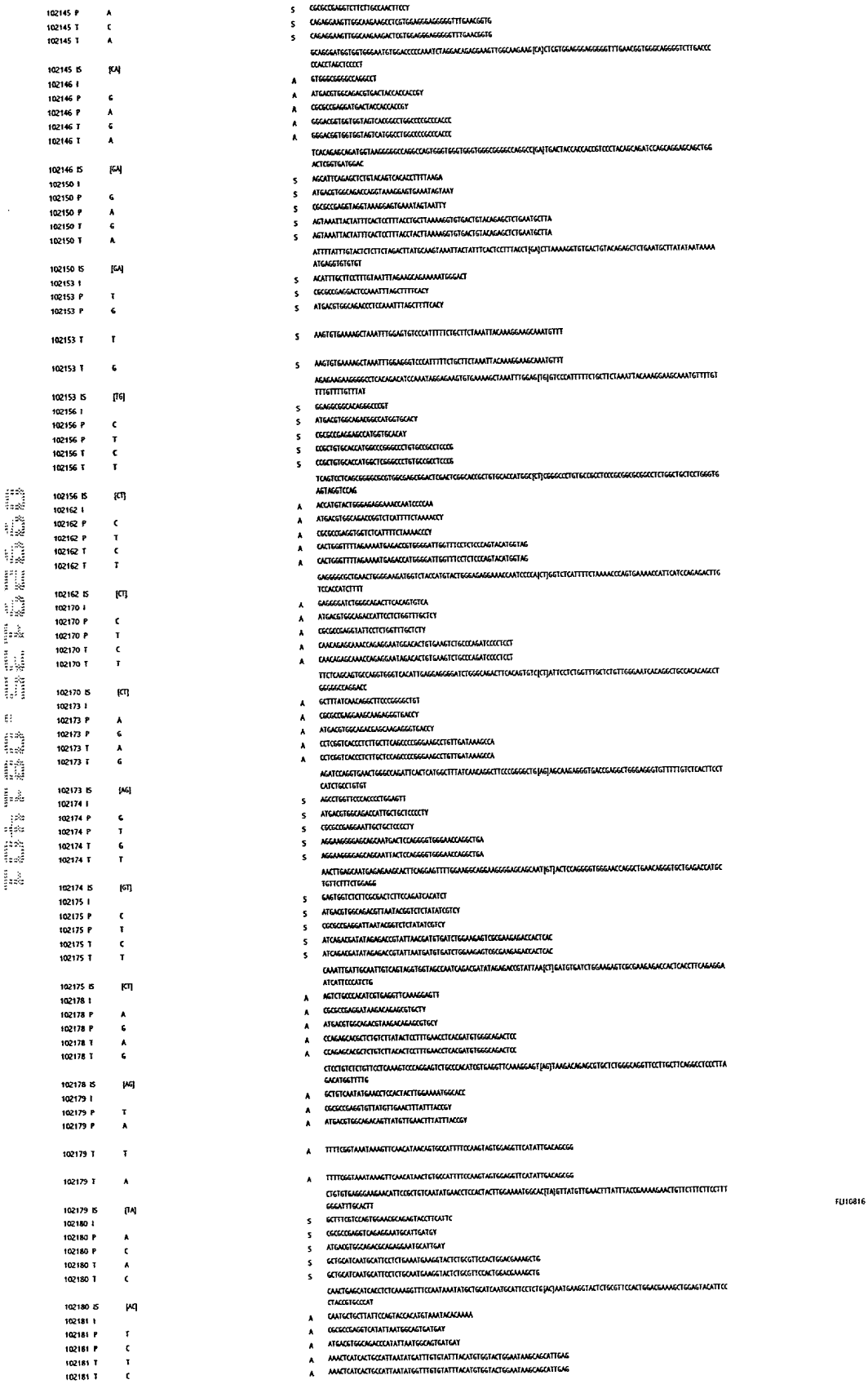


FIGURE 129C

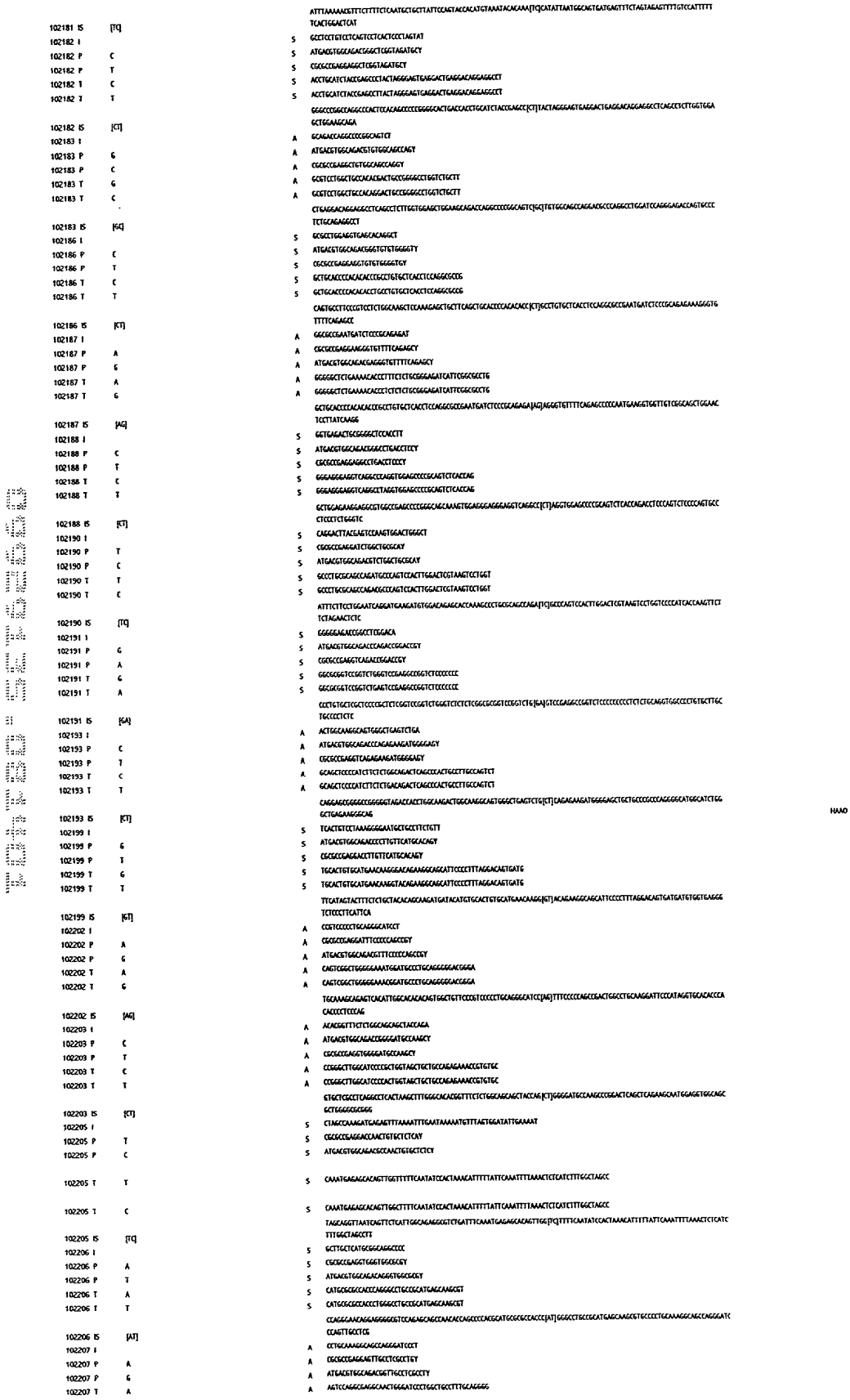
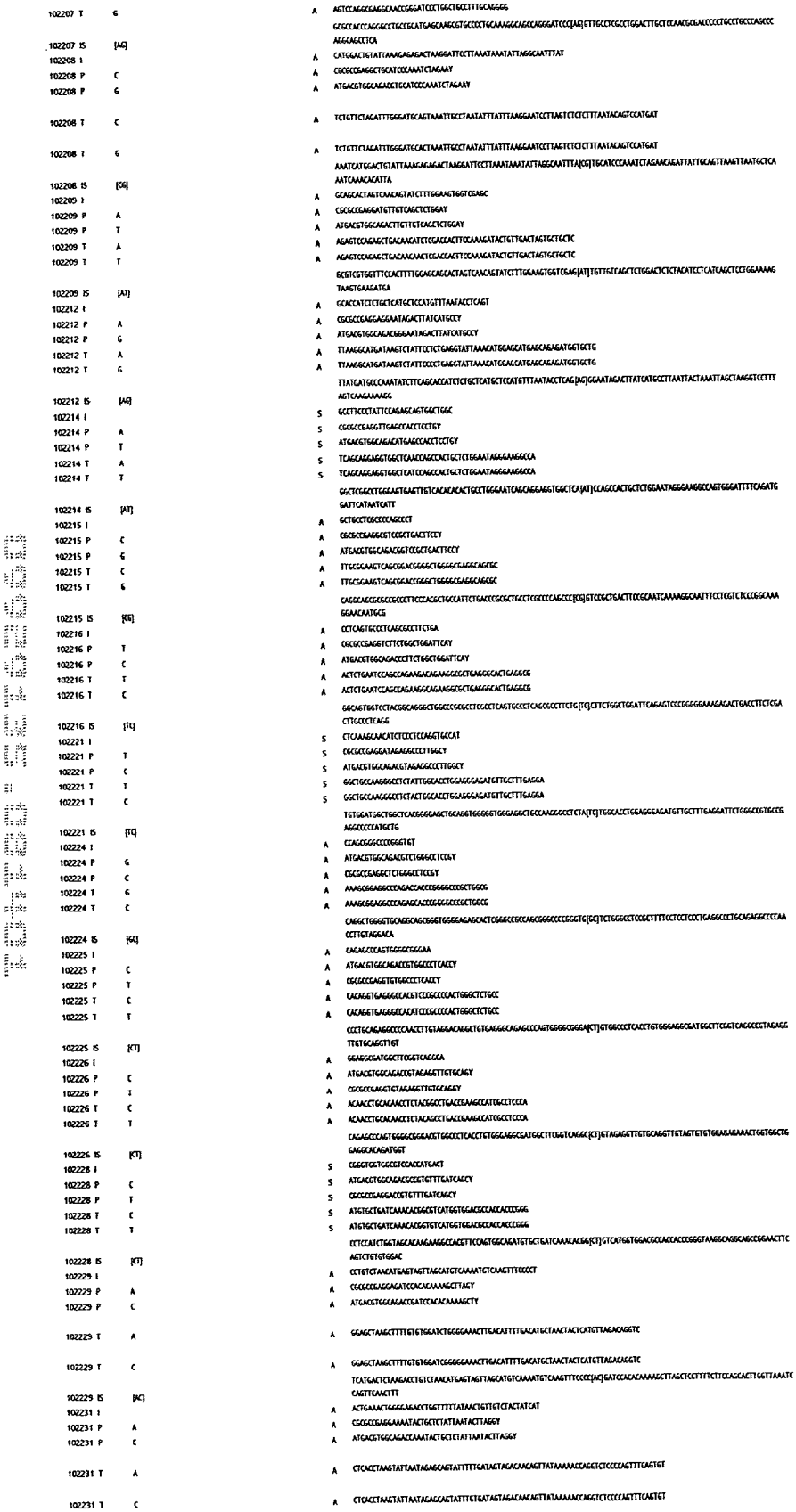
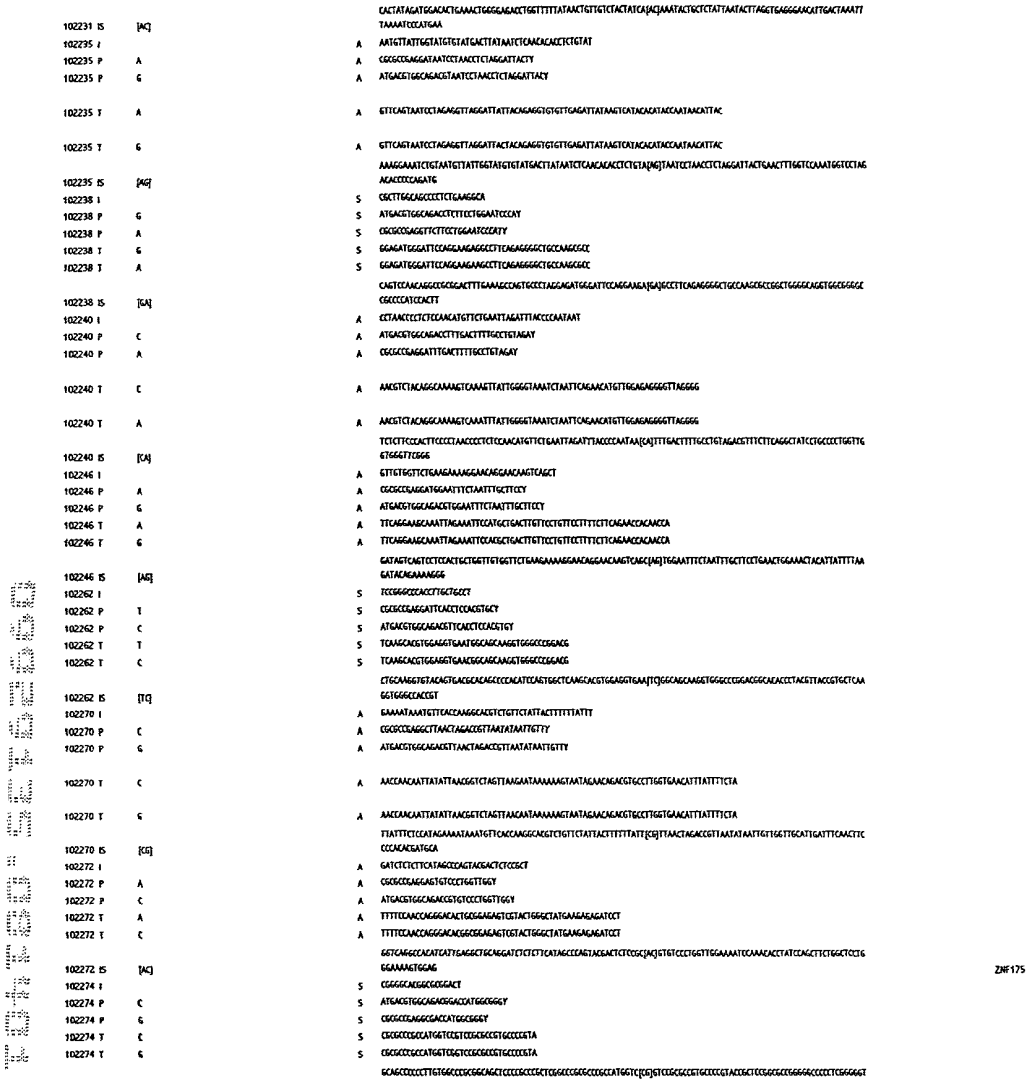


FIGURE 129C






CTCTGACGACCACTAAGCTGGGCACAGGAACCAAGTCCTTTGCGTGTGGCCCAACAACC[AG]TCTACAGAACAGCTGCTGGTGCTTCAGGGAGGCGCCGTGCCCTCCGCT
102295 IS [AG] TTCTTTTATAGC
102303 I A ACCCACAACTGATTATTGATACTGAGAAACATCATCCCTGGGT
102303 P C A ATGACGTGGCAGACAGAAAGGCCTTCTTCTCT
102303 P A A CGGCCCGAGGAAGAAAGGCCTTCTTCTCT
102303 T C A TCATGAGAAGAAGGCCTTTCTGCCCAGGGATGATGTTTCTCAGTATCAATAATCAGTTGTGGGTTT
102303 T A A TCATGAGAAGAAGGCCTTTCTTCCCAGGGATGATGTTTCTCAGTATCAATAATCAGTTGTGGGTTT
102303 IS [CA] AAGAAATAGAAGAAAAAAACCCACAACTGATTATTGATACTGAGAAACATCATCCCTGGG[CA]AGAAAGGCCTTCTTCTCATGACTTCATGATCTGAATCCCCCCGAGTC ATTCATTCTCCAT
102312 I S CTCCTCCTAATTCCTTTCGGTGCCTCACTGCA
102312 P A S CGGCCCGAGGTATTTAGACTGGGAGGCAT
102312 P G S ATGACGTGGCAGACCATTTAGACTGGGAGGCT
102312 T A S TGCGTGCCTCCCAGTCTAAATAGCAGTGAGGCACCGAAAGGAATTAGGAGGAGGA
102312 T G S TGCGTGCCTCCCAGTCTAAATGGCAGTGAGGCACCGAAAGGAATTAGGAGGAGGA
102312 IS [AG] TTACGTGATCCACGTAGAAGATCCTGCCGTGGCTGTCAATGCGTGCCTCCCAGTCTAAAT[AG]GCAGTGAGGCACCGAAAGGAATTAGGAGGAGGAGCTGAGATGATTA ATAGGGTTCATTAA
102314 I S CAAAAGAGTGCAATGCAGAGCTTGAAAGGCATAGTCCT
102314 P T S CGGCCCGAGGAGTTCTTGTCCAAGACTGAY
102314 P C S ATGACGTGGCAGACGGTTCTGTCCAGACTGY
102314 T T S CTTATCAGTCTTGGACAAGAACTGGACTATGCCTTTCAAGGTCTGCATTGCACTCTTTTGCT
102314 T C S CTTATCAGTCTTGGACAAGAACCGGACTATGCCTTTCAAGGTCTGCATTGCACTCTTTTGCT
102314 IS [TC] GAACTACAACCTGAAAAACTGAAACTTACCAATAGCCTCTATCAGTCTGGACAAGAAC[TC]GGACTATGCCTTTCAAGGTCTGCATTGCACTCTTTTGCTGCTCTAAT GCACACACTCTTT
102319 I S ATTGGTAAATTGTTTAATGACCTTTTATATGTTTGAAGCTTTTTGTTATTAAAAAAACAGT
102319 P C S ATGACGTGGCAGACGTTGCCTTCCTGCTTTY
102319 P T S CGCGCCGAGGATTGCCTTCCTGCTTTCY
102319 T C S GTTTGAAAGCAGGAAGGCAACTGTTTTTTTAATAACAAAAAGCTTCAAACATATAAAAGGTCATTAAACAATTTACCAAT
102319 T T S GTTTGAAAGCAGGAAGGCAATCTGTTTTTTTAATAACAAAAAGCTTCAAACATATAAAAGGTCATTAAACAATTTACCAAT
102319 IS [CT] TCTTCAAGACAACCAGATAAATTAATCAATATTTTGTGTTGTTTGAAAGCAGGAAGGCAA[CT]CTGTTTTTTAATAACAAAAAGCTTCAAACATATAAAAGGTCATTA AACAATTTACCAAT
102320 I A GCTAGCACCTTGGGGCTGTGGGAAGAGT
102320 P C A ATGACGTGGCAGACCGCGACAGTCTGGAY
102320 P A A CGCGCCGAGGAGCGACAGTCTGGACY
102320 T C A TGCAGTCCAGACTGTCGCGCTCTTCCCACAGCCCCAAGGTGCTAGCCC
102320 T A A TGCAGTCCAGACTGTCGCTCCTCTCCCACAGCCCCAAGGTGCTAGCCC
102320 IS [CA] TCTGCGTGGGCCTCCCCAACTGCCTGCAGCTGGGCTAGCACCTTGGGGCTGTGGGAAGAG[CA]GCACAGTCTGGACTGCAGCCCTCCCTTTCCAGGCTGGAGCAGTCTCC TGCCATCTCTGT
102322 I S CCTCGCCTTTGTGGCCCGAGTGGT
102322 P C S ATGACGTGGCAGAGGTAGGGAGGGGTTGGY
102322 P T S CGCGCCGAGGATAGGGAGGGGTTGGAY
102322 T C S GTTCTCCAAACCCTCCCTACCCACTCGGGCCACAAAGGCGAGGGG
102322 T T S GTTCTCCAAACCCTCCCTATCCACTCGGGCCACAAAGGCGAGGGG
102322 IS [CT] CTCATGGCTTTGCTCTGGGAAGTCCTGCAAATAAAATGAAAGTTCTCCAACCCCTCCCTA[CT]CCACTCGGGCACAAAGGCGAGGGGAGGCAGGTCTGAGGAGAGGAG CCAGGGCAGGTGC
102328 I S GCATAGGCAGCCCAGTCCCAGAT
102328 P T S CGCGCCGAGGACAGCCCAGGGTGAY
102328 P C S ATGACGTGGCAGAGGAGCCCAGGGTGY
102328 T T S CAGGTCACCCTGGGCTCTTCTGGGGACTGGGGCTGCCTATGCCC
102328 T C S CAGGTCACCCTGGGCTCCTCTGGGGACTGGGGCTGCCTATGCCC
102328 IS [TC] CTCAATGGCTTTGCTCTGGGAAGTCCTGCAAATAAAATGAAAGTTCTCCAACCCCTCCCTA[CT]CCACTCGGGCACAAAGGCGAGGGGAGGCAGGTCTGAGGAGAGGAG CCAGGGCAGGTGC
102338 I A ACCCAGGTCACCAGCGGCTCCATCT
102338 P G A ATGACGTGGCAGACGGATCCACGTAGAGCCY
102338 P A A CGCGCCGAGGAGATCCACGTAGAGCCY
102338 T G A GTGGGGCTCTACGTGGATCCGATGGAGCCGCTGGTGACCTGGGTGG
102338 T A A GTGGGGCTCTACGTGGATCTGATGGAGCCGCTGGTGACCTGGGTGG
102338 IS [GA] TGCCTGGACAGCAGGAAGAGGAAGAGGAGGGGGCACCACCCAGGTCACCAGCGGCTCCATC[GA]GATCCACGTAGAGCCCACAGCCCCAGGGGAGCCTCTCTGCCACCTG CCAGGTTCAGCCA IL12RB1
102339 I S GCCTTAGGGATGGGCTGTGACACTTTACTTTTTTTCTTTTTTCTTTTTTTTCC
102339 P T S CGCGCCGAGGAGTCTTTTCTCCTTGCTCAY
102339 P A S ATGACGTGGCAGACTGTCTTTTCTCCTTGCTCY
102339 T T S AAGCTGAGCAAGGAGAAAAGACTGAAAAAAAAGAAAAAAGAAAAAAGAAAAAAGTAAAGTGTCACAGCCCATCCCTAAGGCAA
102339 T A S AAGCTGAGCAAGGAGAAAAGACAGAAAAAAAAGAAAAAAGAAAAAAGTAAAGTGTCACAGCCCATCCCTAAGGCAA
102339 IS [TA] GAGGTTCAGCCACCCCGTCCCCACTCCGCAACACATTGAAGCTGAGCAAGGAGAAAAGACA[TA]GAAAAAAAAGAAAAAAGAAAAAAGTAAAGTGTCACAGCCCATCCC TAAGGCAAGTCAAA
102344 I A CCCACACAGAAAGGGGTATGTTGGGGGT
102344 P A A CGCGCCGAGGATTGGAAGCACTTGAACTTY
102344 P C A ATGACGTGGCAGACCTTGGAAGCACTTGAACTY
102344 T A A TAAAAGTTCAAGTGCTTCCAATCCCCCAACATACCCCTTTCTGGTGTGGGGG
102344 T C A TAAAAGTTCAAGTGCTTCCAAGCCCCCAACATACCCCTTTCTGGTGTGGGGG
102344 IS [AC] GTGCTATTGGGGTGGGGAGCTCCCTCCCCTCCCCCACACCAGAAAGGGGTATGTTGGGGG[AC]TTGGAAGCACTTGAACTTTTTATTTTATTAAAACCTTGTTATAAGCA GCACCCTTGGCGG
102352 I A GAAGAGGCTCTTAGGCAGAAATATAAAAATCAGCTGAAGAAATAT
102352 P G A ATGACGTGGCAGACGCAGTTCTTTAAGCTTCAAGY
102352 P A A CGCGCCGAGGAACAGTTCTTTAAGCTTCAAGTY
102352 T G A AGTTACTTGAAGCTTAAAGAACTGCTATTTCTTCAGCTGATTTTTATATTTCTGCCTAAGAGCCTCTTCTA
102352 T A A AGTTACTTGAAGCTTAAAGAACTGTTATTTCTTCAGCTGATTTTTATATTTCTGCCTAAGAGCCTCTTCTA
102352 IS [GA] TTAATAAATTATTCTAGAAAGAGGCTCTTAGGCAGAAATATAAAAATCAGCTGAAGAAATA[GA]CAGTTCTTTAAGCTTCAAGTAACTTACCTGTAAGGGAGGACATGA GGATGTTTATATGTC
102354 I A CAAGTACAGAAATCACAGCACAGGATGAAAAAGACAAGGGAT
102354 P C A ATGACGTGGCAGACCAGAAGATGAACATCCAAATGAY
102354 P A A CGCGCCGAGGAAGAGATGAACATCCAAATGAY
102354 T C A TGTGTCATTTGGATGTTCATCTCTGTCCCTTGTCTTTTTCATCCTGTGCTGTGATTTCTGTACTTGTT
102354 T A A TGTGTCATTTGGATGTTCATCTCTTTCCCTTGTCTTTTTCATCCTGTGCTGTGATTTCTGTACTTGTT
102354 IS [CA] AAAAACCACAAATAACTAACAAGTACAGAAATCACAGCACAGGATGAAAAAGACAAGGGA[CA]ACAGATGAACATCCAAATGACACACAATAAGAAAAGTATAAAGAGA TCCAAAAGAACATCT
102355 I A GCATAAAGGGCATTTAGCATGTGGCTATATAAGAAAGAAT
102355 P C A CGCGCCGAGGCGAAGTATGAGCAACACTTY
102355 P G A ATGACGTGGCAGACGCAAGTATGAGCAACACTTAY
102355 T C A CTGTTAAGTGTTGCTCATACTTCGTTCTTTCTTATATAGCCACATGCTAAATGCCCTTTATGCAG
102355 T G A CTGTTAAGTGTTGCTCATACTTCCTTCTTTCTTATATAGCCACATGCTAAATGCCCTTTATGCAG

FIGURE 129C

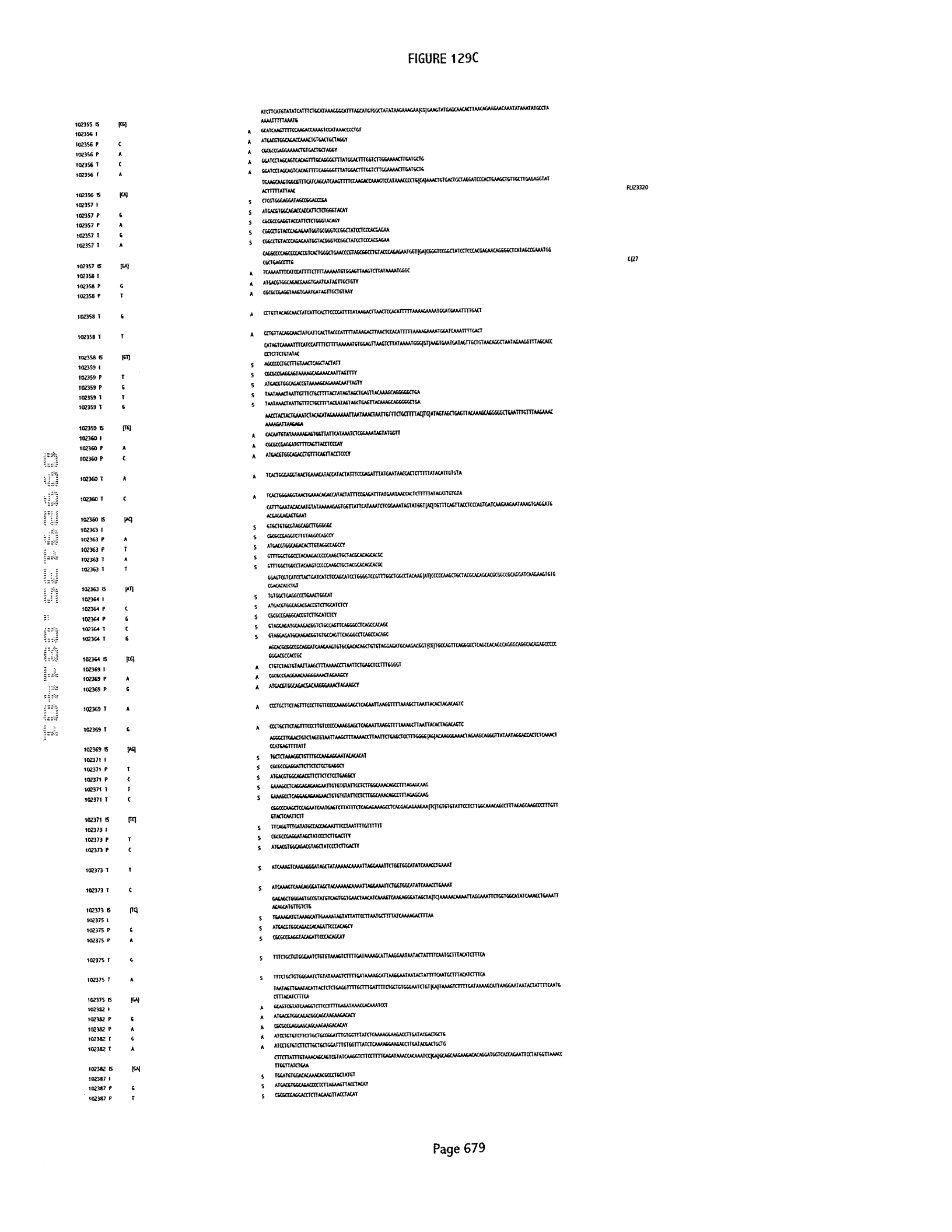


FIGURE 129C

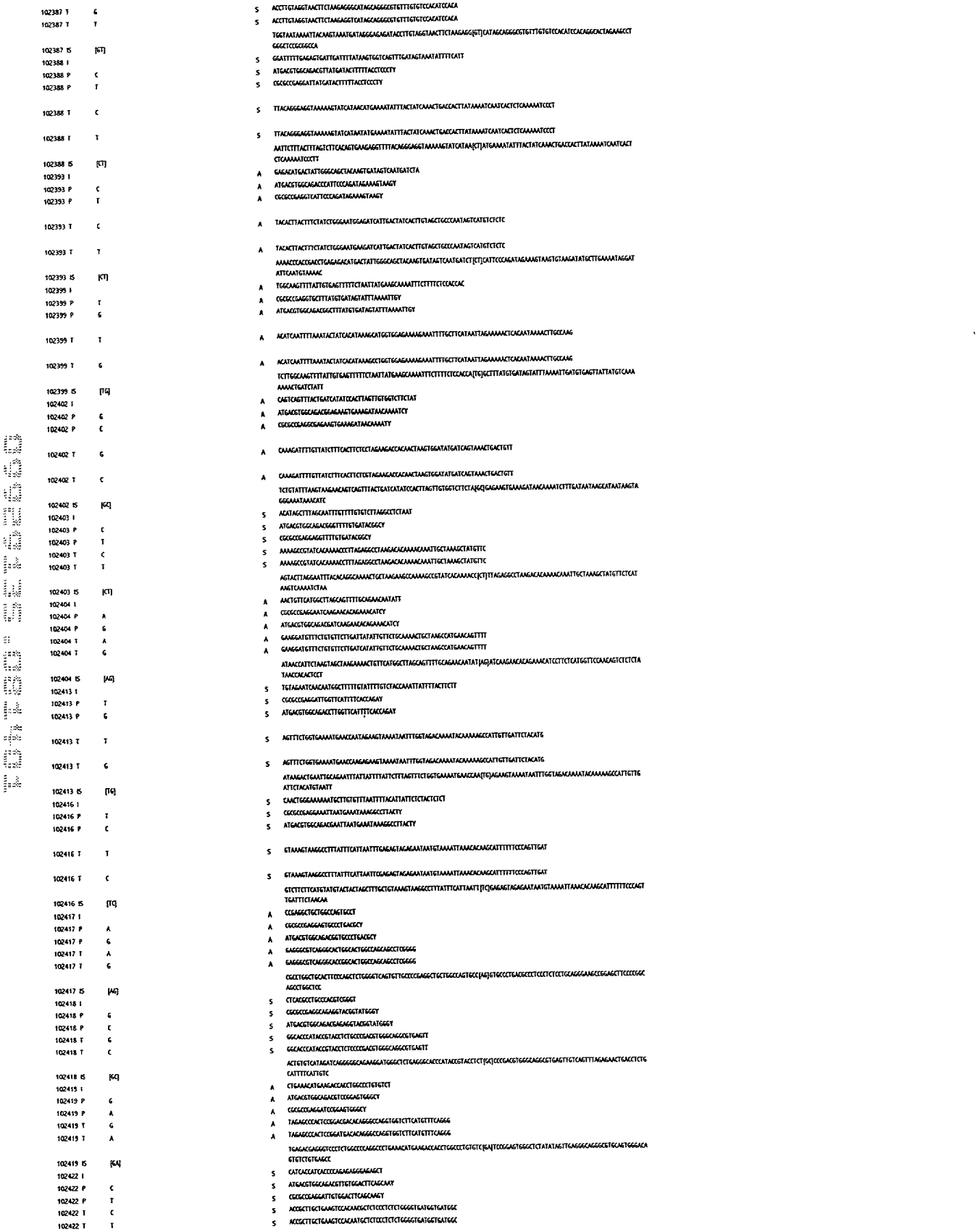
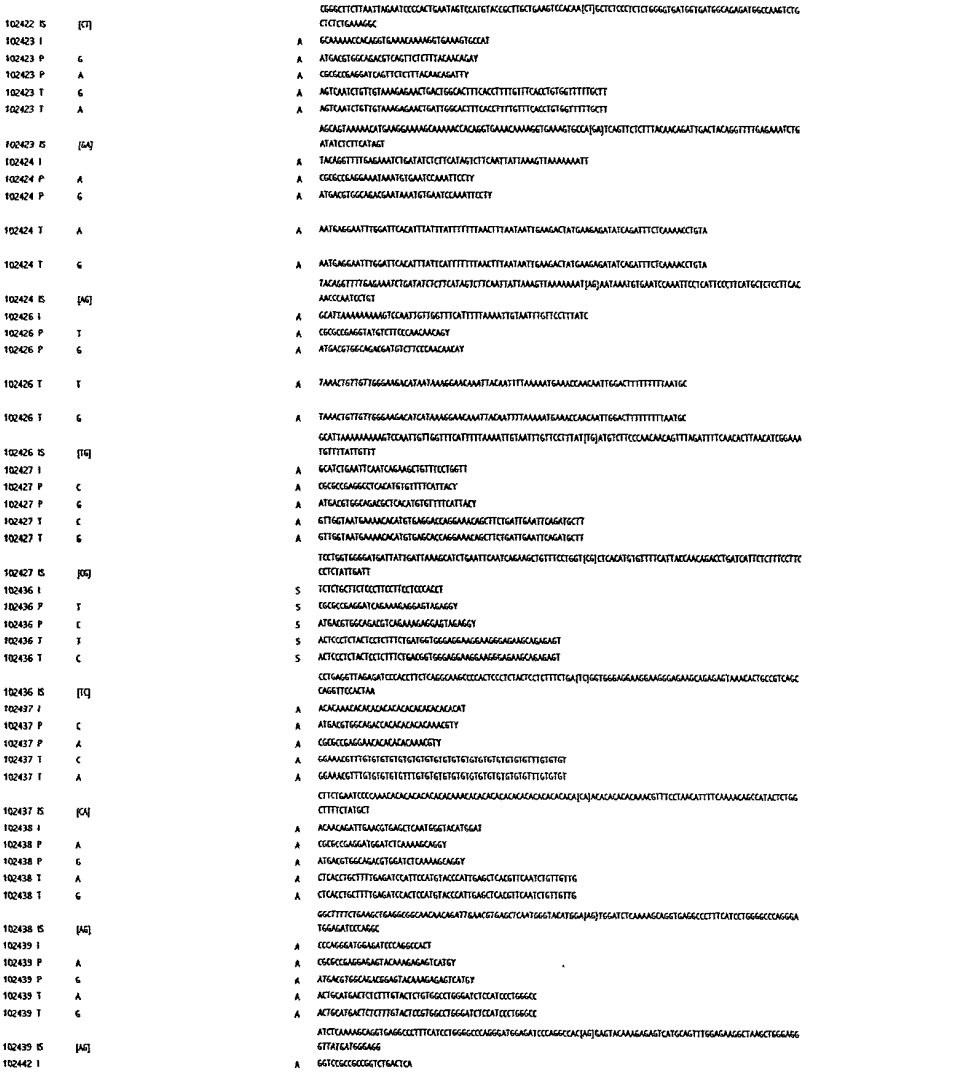


FIGURE 129C



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102450 I                    S  GCAAGCAAGCAGTGGGTGGCCTGAT
102450 P  T                 S  CGCGCCGAGGAGCAGGCTGTGGTY
102450 P  C                 S  ATGACGTGGCAGACGCAAGGCTGTGGTY
102450 T  T                 S  GGTCACCACAGCCTTGCTTCAGGCCACCCCACTGCTTGCTTGCAA
102450 T  C                 S  GGTCACCACAGCCTTGCCTCAGGCCACCCCACTGCTTGCTTGCAA
                               CCATCATTTTTTATTTCACACCAAAAGTAAAAGCAGGCAGTGTGGTCACCACAGCCTTGC[TC]TCAGGCCACCCACTGCTTGCTTGCAACACCGTCCCCAGGGCACCCCTCG
102450 IS [TC]                 CTACAGCACTC
102451 I                    S  CATTCTAAGGCAGCACATGGTGAAGGTAGCAAGTTCGT
102451 P  C                 S  ATGACGTGGCAGACGAAGTAGACATTTTAACACAGTAATT
102451 P  T                 S  CGGCCGAGGAAAGTAGACATTTTAACACAGTAATT

102451 T  C                 S  AAGCATTACTGTGTTAAAATGTCTACTTCCGAACTCCTACCTTCACCATGTGCTCCCTTAGAATGTA

102451 T  T                 S  AAGCATTACTGTGTTAAAATGTCTACTTTCGAACTTCCTACCATGTGCTCCCTTAGAATGTA
                               TTTGCCTAGAAACCACCAGAATTTTACTTCATAAGCATTACTGTGTTAAAATGTCTACTT[CT]CGAACTTCCTACCTTCACCATGTGCTCCCTTAGAATGTATGTGGAGA
102451 IS [CT]                 GACGCGCTGGTGA
102455 I                    S  CATTGACATCAATCTGTGTCAGGTCAGCTACTCCTTCCT
102455 P  C                 S  ATGACGTGGCAGACGGAAGGTTGTCACAGTTGY
102455 P  T                 S  CGCGCCGAGGAGAAGGTTGTGACAGTTGY
102455 T  C                 S  ATCACAACTGTCACAACCTTCCGGAAGGAGTAGCTGACCTGACACAGATTGATGTCAATGTC
102455 T  T                 S  ATCACAACTGTCACAACCTTCTGGAAGGAGTAGCTGACCTGACACAGATTGATGTCAATGTC
                               CTGCAAATCGCCCTCTCTTGCTACAGAAAGATACTAAAAGATCACAACTGTCACAACCTTC[CT]GGAAGGAGTAGCTGACCTGACACAGATTGATGTCAATGTCCAGGATC
102455 IS [CT]                 ATTTCTGGGATGG                                                                                                                                                                SCR61
102459 I                    A  CATAACAAATATACTCAGTCATGATTCTCCTGGTAATATGGGGT
102459 P  G                 A  ATGACGTGGCAGACGAGAAAAATCAACAAAAACACAAGY
102459 P  A                 A  CGCGCCGAGGAAGAAAAATCAACAAAAACACAAGY

102459 T  G                 A  AAAGCTGTGTTTTTGTTGATTTTTCTCCCCCATATTACCAGGAGAATCATGACTGAGTATATTTGTTATGGA

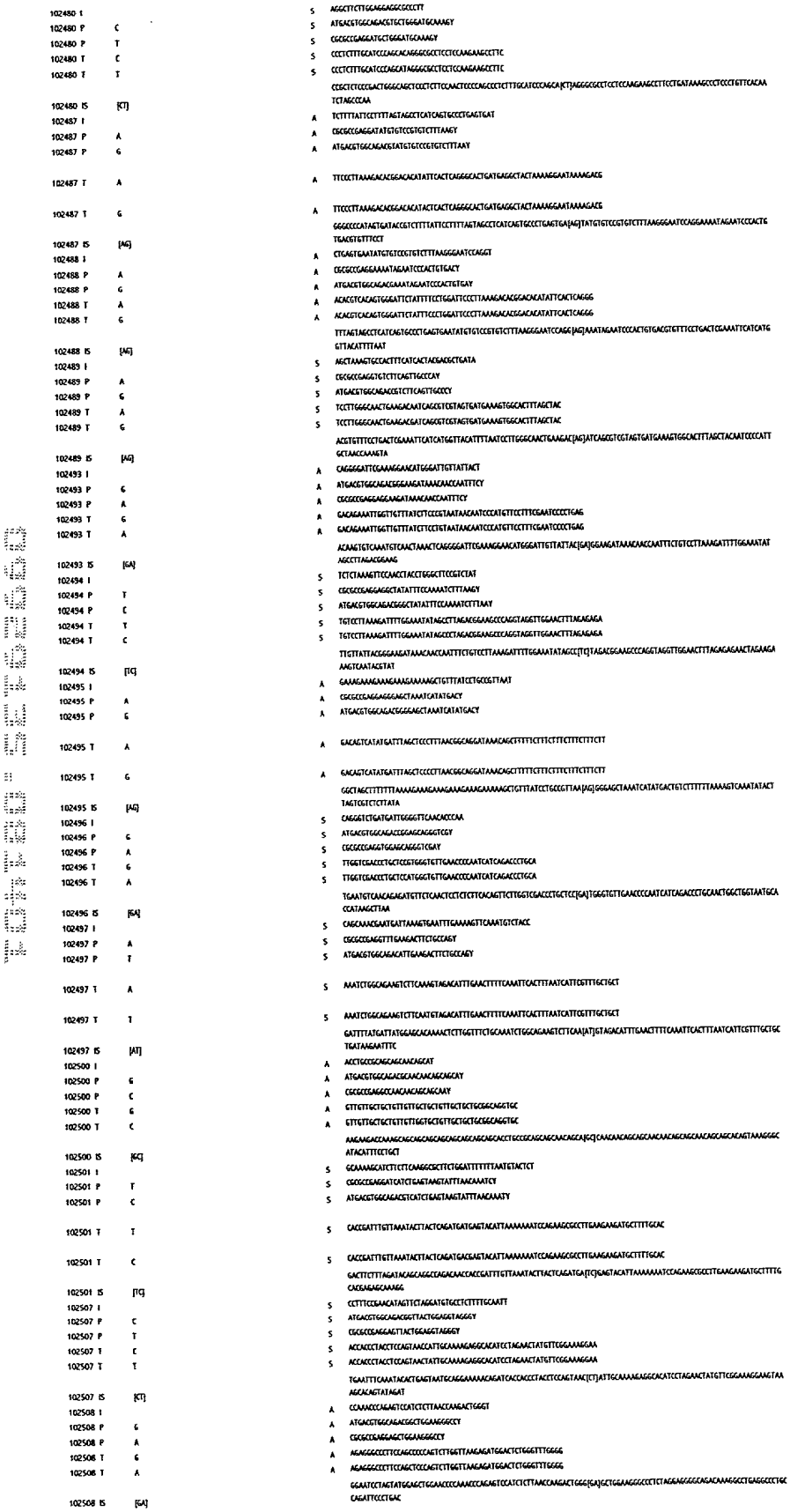
102459 T  A                 A  AAAGCTGTGTTTTTGTTGATTTTTCTTCCCCCATATTACCAGGAGAATCATGACTGAGTATATTTGTTATGGA
                               GACCTTTATTTCATCTCCATAACAAATATACTCAGTCATGATTCTCCTGGTAATATGGGG[GA]AGAAAAATCAACAAAAACACAAGCTTTATAACACATGAGATTCATG
102459 IS [GA]                 GCTGTAAACGCTAC
102461 I                    A  CCCTGGTAAGGATTTAGGTGGATGGATCCTGTGGT
102461 P  G                 A  ATGACGTGGCAGACGAGCCCTGAACTGGGY
102461 P  C                 A  CGCGCCGAGGCAGCCCTGAACTGGGY
102461 T  G                 A  AGACCCAGTTCAGGGCTCCCACAGGATCCATCCACCTAAATCCTTACCAGGGGT
102461 T  C                 A  AGACCCAGTTCAGGGCTGCCACAGGATCCATCCACCTAAATCCTTACCAGGGGT
                               GTAAACAGTAACCATTCCACAGGCACCCCCTGGTAAGGATTTAGGTGGATGGATCCTGTG[GC]AGCCCTGAACTGGGTCTTAGAGGTGAGCAGGTGAGCAAGTAAGGAA
102461 IS [GC]                 GCCAGACCAAGAGT
102462 I                    A  CCCAATTCATTCCCAAGCCCCCAGGAAAAAAT
102462 P  A                 A  CGCGCCGAGGAAAAAAAAGATGAAGCCTATGAAY
102462 P  C                 A  ATGACGTGGCAGACAAAAAAAGATGAAGCCTATGAY
102462 T  A                 A  TGCTTTCATAGGCTTCATCTTTTTTTTTTTTTTTCCTGGGGGCTTGGCAATGAATTGGGCA
102462 T  C                 A  TGCTTTCATAGGCTTCATCTTTTTTTGTTTTTTCCTGGGGGCTTGGGAATGAATTGGGCA
                               TTTCTGTGGAGCAGACACCTAAGAAATTGCCCAATTCATTCCCAAGCCCCCAGGAAAAAA[AC]AAAAAAAGATGAAGCCTATGAAAGCACAGAACATTCCTGTGGCAAG
102462 IS [AC]                 TAAGCAATCACTTA
102463 I                    S  CCGAAAAAAGGCCCGGTGCCCTTGGT
102463 P  T                 S  CGCGCCGAGGAAATAAGTGATTGCTTACTTGCY
102463 P  G                 S  ATGACGTGGCAGACAATAAGTGATTGCTTACTTGCY
102463 T  T                 S  TGTGGCAAGTAAGCAATCACTTATTTCCAAGGGCACCGGGCCTTTTTTCGGCT
102463 T  G                 S  TGTGGCAAGTAAGCAATCACTTATTGCCAAGGGCACCGGGCCTTTTTTCGGCT
                               AAAAGATGAAGCCTATGAAAGCACAGAACATTCCTGTGGCAAGTAAGCAATCACTTATT[TG]CCAAGGGCACCGGGCCTTTTTTCGGCTGCACAATCTAATTAGAGGG
102463 IS [TG]                 TTTGAGATGTGGAT
102468 I                    S  GCAATATATTCCTGCAAAGAAGAAAGGCTGTCAGAATT
102468 P  C                 S  ATGACGTGGCAGACGCACTGCCAAACAGCY
102468 P  T                 S  CGCGCCGAGGACACTGCCAAACAGCY
102468 T  C                 S  GTAAGCTGTTTGGCAGTGCATTCTGACAGCCTTTCTTCTTTGCAGGAATATATTGCTA
102468 T  T                 S  GTAAGCTGTTTGGCAGTGTATTCTGACAGCCTTTCTTCTTTGCAGGAATATATTGCTA
                               TAAATTAATCAATGTTGTTGACCCTAATAGAACCTGTTATTTGTAAGCTGTTTGGCAGTGCTJATTCTGACAGCCTTTCTTCTTTGCAGGAATATATTGCTAAGAATTTC
102468 IS [CT]                 TGTGTCATGCAGT
102469 I                    A  CAGAACATGGTGTTGGTGTCTCTTACCCTGCTGA
102469 P  C                 A  ATGACGTGGCAGACCGATCTCCTCCTGATGAY
102469 P  T                 A  CGCGCCGAGGTGATCTCCTCCTGATGAGY
102469 T  C                 A  ACAGCTCATCAGGAGGAGATCGCAGCAGGGTAAGAGACACCAACACCATGTTCTGCA
102469 T  T                 A  ACAGCTCATCAGGAGGAGATCACAGCAGGGTAAGAGACACCAACACCATGTTCTGCA
                               GTGATCTTGAGATCCTTGAGCTTCGTGCAGAACATGGTGTTGGTGTCTCTTACCCTGCTG[CT]GATCTCCTCCTGATGAGCTGTAGTTCTTATATGAGACTGACAAACAG
102469 IS [CT]                 AAGCCACTATCAA                                                                                                                                                                GUCY1A3
102470 I                    S  CGAATCAGGAAATCGTCTTTGATGAGGATTTGTACATGAGTGAATCT
102470 P  C                 S  ATGACGTGGCAGACGTAGAAGGCATAGTGTGCY
102470 P  T                 S  CGCGCCGAGGATAGAAGGCATAGTGTGCTY

102470 T  C                 S  CTTCAGCACACTATGCCTTCTACGATTTCACTCATGTACAAATGCTCATCAAAGACGATTTCCTGATTCGTA

102470 T  T                 S  CTTCAGCACACTATGCCTTCTATGATTTCACTCATGTACAAATGCTCATCAAAGACGATTTCCTGATTCGTA
                               CAAATAACTCACTACTAAAATGTGATATGAATAAATGACTTCAGCACACTATGCCTTCTA[CT]GATTTCACTCATGTACAAATGCTCATCAAAGACGATTTCCTGATTCG
102470 IS [CT]                 TATATTCGAACAG
102476 I                    A  GACACCAACAAAAACTCAAGAACATAACACACACAGGCATT
102476 P  A                 A  CGCGCCGAGGATCATATACACAACAATGCAACCY
102476 P  C                 A  ATGACGTGGCAGACCTCATATACCACAATGCAACY

102476 T  A                 A  GTAAGGTTGCATTGTGGTATATGATATGCCGTGTGTGTTATGTTCTTGAGTTTTTTGTTGGTGTCTA

102476 T  C                 A  GTAAGGTTGCATTGTGGTATATGAGATGCCGTGTGTGTTATGTTCTTGAGTTTTTTGTTGGTGTCTA
                               AAGTGAAGAAGTACATTTAGACACCAACAAAAAACTCAAGAACATAACACACAGGCATJACTCATATACACACAATGCAACCTTACCTGTTTCTGAAATGTATGTAAC
102476 IS [AC]                 AGGATCCTGCCGTG
102478 I                    S  GCATCCATGCATCCACCAACAGAATTGGCTTGT
102478 P  C                 S  ATGACGTGGCAGACGTTGGAAATCTAGCCCAGAY
102478 P  T                 S  CGCGCCGAGGATTGGAATCTAGCCCAGAY
102478 T  C                 S  AGGCTCTGGGCTAGATTCCAACCAAGCCAATTCTGTTGGTGGATGCATGGATGCAT
102478 T  T                 S  AGGCTCTGGGCTAGATTCCAATCAAGCCAATTCTGTTGGTGGATGCATGGATGCAT
                               GAGAGAGGGGATGCTGGCTTCCTATTCTGGGAGCACTGTAGGCTCTGGGCTAGATTCCAA[CT]CAAGCCAATTCTGTTGGTGGATGCATGGATGCATGAAGAATCTGTC
102478 IS [CT]                 CATGCGTTCTCCCA
102479 I                    S  GCCCCAGTGCCCTTTCTGCAGACTAAAGTGA
102479 P  G                 S  ATGACGTGGCAGACCCCTCTTCTCCTTGCCY
102479 P  A                 S  CGCGCCGAGGTCCTCTTCTCCTTGCCY
102479 T  G                 S  GTAGGCCAAGGAAGAAGAGGGCACTTTAGTCTGCAGAAAGGGCACTGGGGCCG
102479 T  A                 S  GTAGGCCAAGGAAGAAGAGGACACTTTAGTCTGCAGAAAGGGCACTGGGGCCG
                               ACTCCTAAATAGGCCACTCCTTCTCAGGCCGGTGACTCTGAGGTAGGGCAAGGAAGAAGAGG[GA]CACTTTAGTCTGCAGAAAGGGCACTGGGGCCGCTCTCCCGACTGGGC
102479 IS [GA]                 AGCTCCCTCCTTCC
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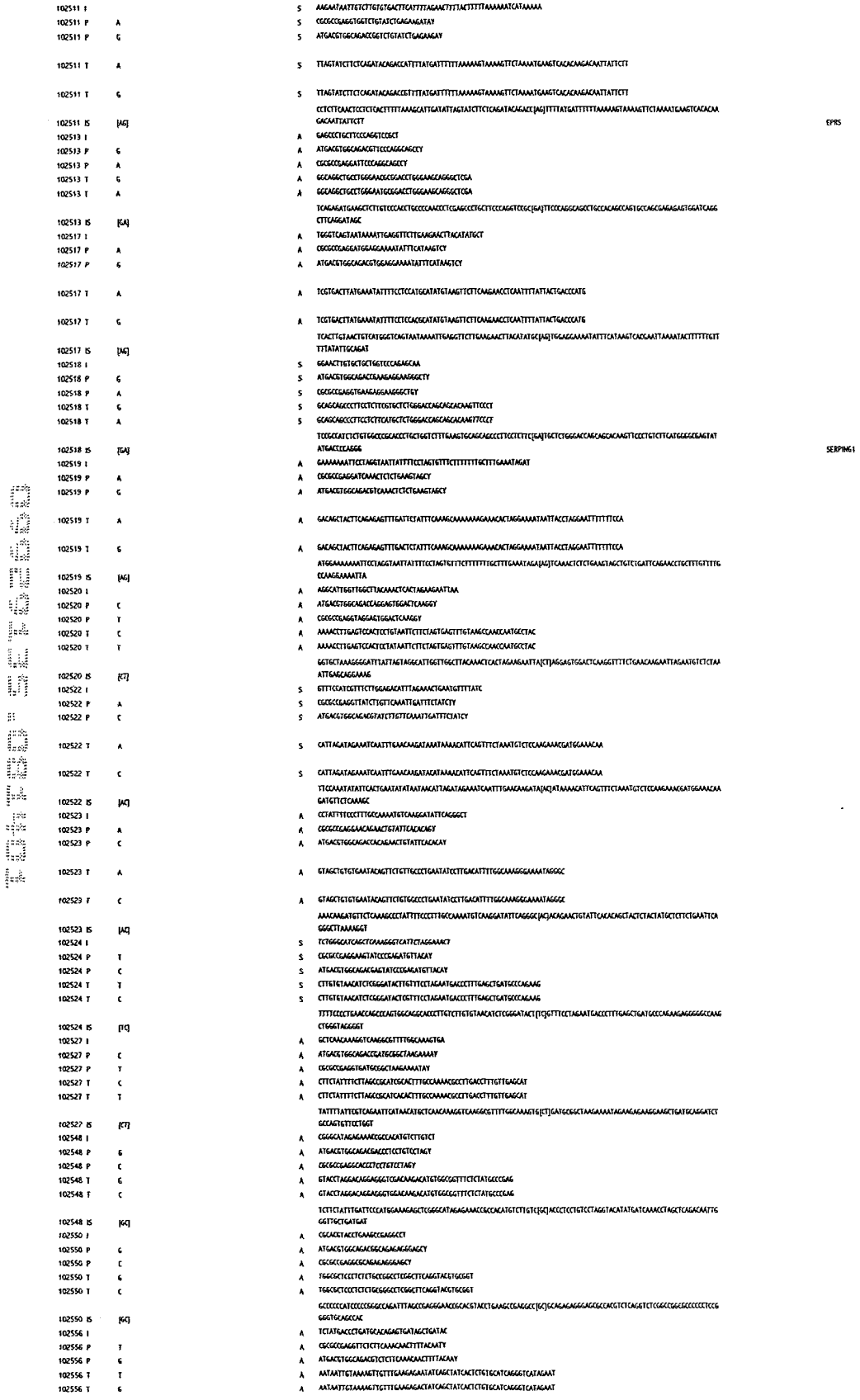

102511 I S AAGAATAATTGTCTTGTGTGACTTCATTTTAGAACTTTTACTTTTTAAAAAATCATAAAAA
102511 P A S CGCGCCGAGGTGGTCTGTATCTGAGAAGATAY
102511 P G S ATGACGTGGCAGACCGGTCTGTATCTGAGAAGAY
102511 T A S TTAGTATCTTCTCAGATACAGACCATTTTATGATTTTTTAAAAAGTAAAAGTTCTAAAATGAAGTCACACAGACAATTATTCTT
102511 T G S TTAGTATCTTCTCAGATACAGACCGTTTTATGATTTTTAAAAAGTAAAAGTTCTAAAATGAAGTCACACAGACAATTATTCTT
102511 IS [AG] S CCTCTTCAACTCCTCTCACTTTTAAAGCATTGATATTAGTATCTTCTCAGATACAGACC[AG]TTTTATGATTTTTTAAAAAGTAAAAGTTCTAAAATGAAGTCACACAA GACAATTATTCTT EPRS
102513 I A GAGCCCTGCTTCCCAGGTCCGCT
102513 P G A ATGACGTGGCAGACGTCCCCAGGCAGCCY
102513 P A A CGCGCCGAGGATTCCCAGGCAGCCY
102513 T G A GGCAGGCTGCCTGGGAACGCGGACCTGGGAAGCAGGGCTCGA
102513 T A A GGCAGGCTGCCTGGGAATGCGGACCTGGGAAGCAGGGCTCGA
102513 IS [GA] S TCAGAGATGAAGCTCTTGTCCCACCTGCCCCAACCCTCGAGCCCTGCTTCCCAGGTCCG[GA]TTCCCAGGCAGCCTGCCACAGCCAGTGCCAGCGAGAGAGTGGATCAGG CTTCAGGATAGC
102517 I A TGGGTCAGTAATAAAATTGAGGTTCTTGAAGAACTTACATATGCT
102517 P A A CGCGCCGAGGATGGAGGAAAATATTTCATAAGTCY
102517 P G A ATGACGTGGCAGACGTGGAGGAAAATATTTCATAAGTCY
102517 T A A TCGTGACTTATGAAATATTTTCCTCCATGGATATGTAAGTTCTTCAAGAACCTCAATTTTATTACTGACCCATG
102517 T G A TCGTGACTTATGAAATATTTTCCTCCACGCATATGTAAGTTCTTCAAGAACCTCAATTTTATTACTGACCCATG
102517 IS [AG] S TCACTTGTAACTGTCATGGGTCAGTAATAAAATTGAGGTTCTTGAAGAACTTACATATGC[AG]TGGAGCAAAATATTTCATAAGTCACGAATTAAAATACTTTTTGTT TTTATATTGCAGAT
102518 I S GGAACTTGTGCTGCTGGTCCCAGAGCAA
102518 P G S ATGACGTGGCAGACCGAAGAGGAAGGGCTY
102518 P A S CGCGCCGAGGTGAAGAGGAAGGGCTGY
102518 T G S GCAGCAGCCCTTCCTCTTCGTGCTCTGGGACCAGCAGCACACAAGTTCCCT
102518 T A S GCAGCAGCCCTTCCTCTTCATGCTCTGGGACCAGCAGCACAAGTTCCCT
102518 IS [GA] S TCCGCATCTCTGTGGCCGCAACCTGCTGGTCTTTGAAGTGCAGCAGCCCTTCCTCTTC[GA]TGCTCTGGGACCAGCAGCAGCAAGTTCCCTGTCTTCATGGGGCGAGTAT ATGACCCCAGGG SERPING1
102519 I A GAAAAAAATTCCTAGGTAATTATTTTCCTAGTGTTTCTTTTTTTGCTTTGAAATAGAT
102519 P A A CGCGCCGAGGATCAAACTCTCTGAAGTAGCY
102519 P G A ATGACGTGGCAGACGTCAAACTCTCTGAAGTAGCY
102519 T A A GACAGCTACTTCAGAGAGTTTGATTCTATTTCAAAGCAAAAAAAGAAACACTAGGAAAATAATTACCTAGGAATTTTTTTCCA
102519 T G A GACAGCTACTTCAGAGAGTTTGACTCTATTTCAAAGCAAAAAAAGAAACACTAGGAAAATAATTACCTAGGAATTTTTTTCCA
102519 IS [AG] S ATGGAAAAAAAATTCCTAGGTAATTATTTTCCTAGTGTTTCTTTTTTTGCTTTGAAATAGA[AG]TCAAACTCTCTGAAGTAGCTGTCTCGATTCAGAACCTGCTTTGTTTTG CCAAGGAAAATTA
102520 I A AGGCATTGGTTGGCTTACAAACTCACTAGAAGAATTAA
102520 P C A ATGACCTGGCAGACCAGGAGTGGACTCAAGGY
102520 P T A CGCGCCGAGGTAGGAGTGGACTCAAGGY
102520 T C A AAAACCTTGAGTCCACTCCTGTAATTCTTCTAGTGAGTTTGTAAGCCAACCAATGCCTAC
102520 T T A AAAACCTTGAGTCCACTCCTATAATTCTTCTAGTGAGTTTGTAAGCCAACCAATGCCTAC
102520 IS [CT] S GGTGCTAAAGGGGATTTATTAGTAGGCATTGGTTGGCTTACAAACTCACTAGAAGAATTA[CT]AGGAGTGGACTCAAGGTTTCTGAACAAGAATTAGAATGTCTCTAA ATTGAGCAGGAAAG
102522 I S GTTTCCATCGTTTCTTGGAGACATTTAGAAACTGAATGTTTTATC
102522 P A S CGCGCCGAGGTTATCTTGTTCAAATTGATTTCTATCTY
102522 P C S ATGACGTGGCAGACGTATCTTGTTCAAATTGATTTCTATCY
102522 T A S CATTAGATAGAAATCAATTTGAACAAGATAAATAAAACATTCAGTTTCTAAATGTCTCCAAGAAACGATGGAAACAA
102522 T C S CATTAGATAGAAATCAATTTGAACAAGATACATAAAACATTCAGTTTCTAAATGTCTCCAAGAAACGATGGAAACAA
102522 IS [AC] S TTCCAAATATATTCACTGAATATATAATAACATTAGATAGAAATCAATTTGAACAAGATA[AC]ATAAAACATTCAGTTTCTAAATGTCTCCAAGAAACGATGGAAACAA GATGTTCTCAAAGC
102523 I A CCTATTTTCCCTTTGCCAAAATGTCAAGGATATTCAGGGCT
102523 P A A CGCGCCGAGGAACAGAACTGTATTCACACAGY
102523 P C A ATGACCTGGCAGACCACAGAACTGTATTCACACAY
102523 T A A GTAGCTGTGTGAATACAGTTCTGTTGCCCTGAATATCCTTGACATTTTGGCAAAGGGAAAATAGGGC
102523 F C A GTAGCTGTGTGAATACAGTTCTGTGGCCCTGAATATCCTTGACATTTTGGCAAAGGGAAAATAGGGC
102523 IS [AC] S AAACAAGATGTTCTCAAAGCCCTATTTTCCCTTTGCCAAAATGTCAAGGATATTCAGGGC[AC]ACAGAACTGTATTCACACAGCTACTCTACTATGCTCTTCTGAATTCA GGGCTTAAAGGT
102524 I S TCTGGGCATCAGCTCAAAGGGTCATTCTAGGAAACT
102524 P T S CGCGCCGAGGAAGTATCCCGAGATGTTACAY
102524 P C S ATGACGTGGCAGACGAGTATCCCGAGATGTTACAY
102524 T T S CTTGTGTAACATCTCGGGATACTTGTTTCCTAGAATGACCCTTTGAGCTGATGCCCAGAAG
102524 T C S CTTGTGTAACATCTCGGGATACTCGTTTCCTAGAATGACCCTTTGAGCTGATGCCCAGAAG
102524 IS [TC] S TTTTCCCCTGAACCAGCCCAGTGGCAGGCACCCTTGTCTTGTGTAACATCTCGGGATACT[TC]GTTTCCTAGAATGACCCTTTGAGCTGATGCCCAGAAGAGGGGGCCAAG CTGGGTAGGGGT
102527 I A GCTCAACAAAGGTCAAGGCGTTTTGGCAAAGTGA
102527 P C A ATGACTGGCAGACCGATGCGGCTAAGAAAAY
102527 P T A CGCGCCGAGGTGATGCGGCTAAGAAAATAY
102527 T C A CTTCTATTTCTTAGCCGCATCGCACTTTGCCAAAACGCCTTGACCTTTGTTGAGCAT
102527 T T A CTTCTATTTCTTAGCCGCATCACACTTTGCCAAAACGCCTTGACCTTTGTTGAGCAT
102527 IS [CT] S TATTTTATTGGTCAGAATTCATAACATGCTCAACAAAGGTCAAGGCGTTTTGGCAAAGTG[CT]GATGCGGCTAAGAAAATAGAACAGAAGGAAGCTGATGCAGGATCT GCCAGTGTTCCTGGT
102548 I A CGGGCATAGAGAAACGGCCACATGTCTTGTCT
102548 P G A ATGACGTGGCAGACGACCCTCCTGTCCTAGY
102548 P C A CGCGCCGAGGCAACCCTCCTGTCCTAGY
102548 T G A GTACCTAGGACAGGAGGGTCGACAAGACATGTGGCGGTTTCTCTATGCCCGAG
102548 T C A GTACCTAGGACAGGAGGGTGGACAAGACATGTGGCGGTTTCTCTATGCCCGAG
102548 IS [GC] S TCTTCTATTTGATTCCCATGGAAAGAGCTCGGGCATAGAGAAACCGCCACATGTCTTGTC[GC]ACCCTCCTGTCCTAGGTACATATGATCAAACCTAGCTCAGACAATTG GGTTGCTGATGAT
102550 I A CGCACGTACCTGAAGCCGAGGCCT
102550 P G A ATGACGTGGCAGACGGCAGAGAGGGAGCY
102550 P C A CGCGCCGAGGCGCAGAGAGGGAGCY
102550 T G A TGGCGCTCCCTCTCTGCCGCCTCGGCTTCAGGTACGTGCGGT
102550 T C A TGGCGCTCCCTCTCTGCGGGCCTCGGCTTCAGGTACGTGCGGT
102550 IS [GC] S GCCCCCCATCCCCCCGGCCAGATTTAGCCGAGGGAACGCACGTACCTGAAGCCGAGGCC[GC]GCAGAGAGGGAGCGCCACGTCTCAGCTCTCGGCCGGCGCCCCCCTCCG GGGTGCAGCCAC
102556 I A TCTATGACCCTGATGCACAGAGTGATAGCTGATAC
102556 P T A CGCGCCGAGGTTCTCTTCAAACAACTTTTACAATY
102556 P G A ATGACCTGGCAGACGTCTCTTCAAACAACTTTTACAAY
102556 T T A AATAATTGTAAAAGTTGTTTGAAGAGAATATCAGCTATCACTCTGTGCATCAGGGTCATAGAAT
102556 T G A AATAATTGTAAAAGTTGTTTGAAGAGACTATCAGCTATCACTCTGTGCATCAGGGTCATAGAAT

FIGURE 129C

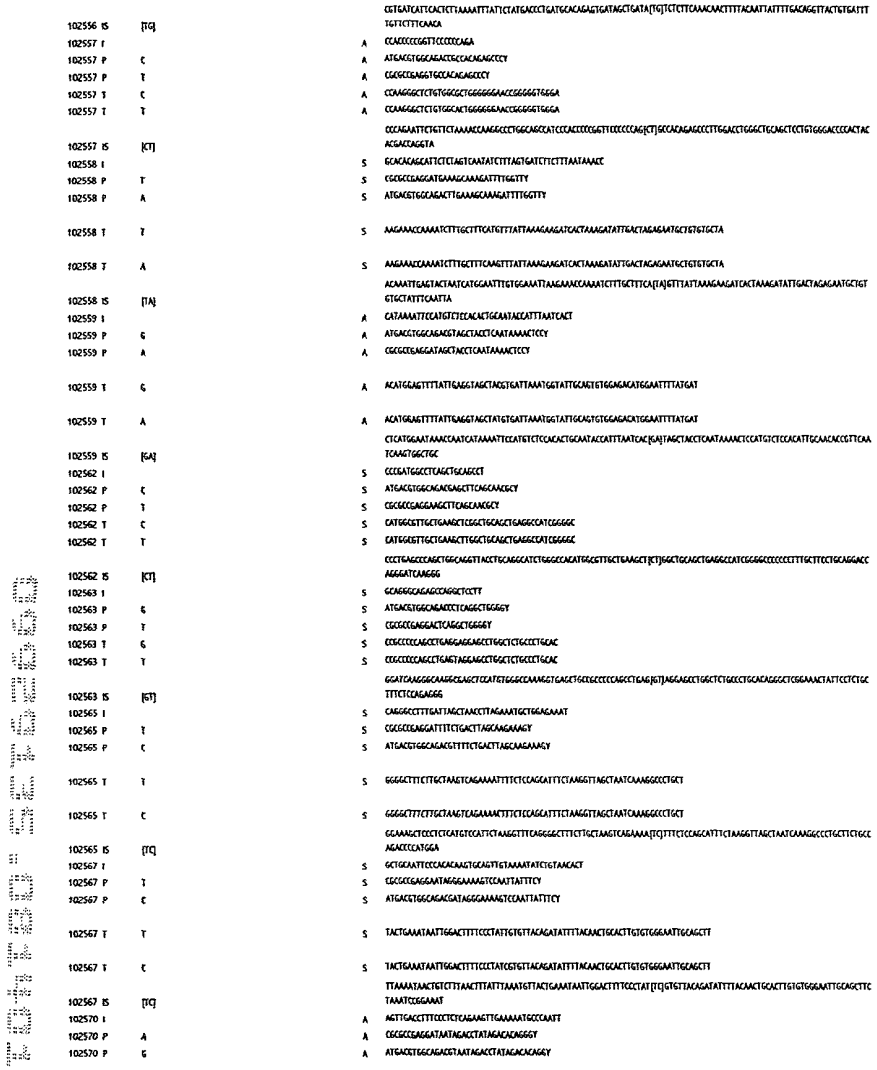
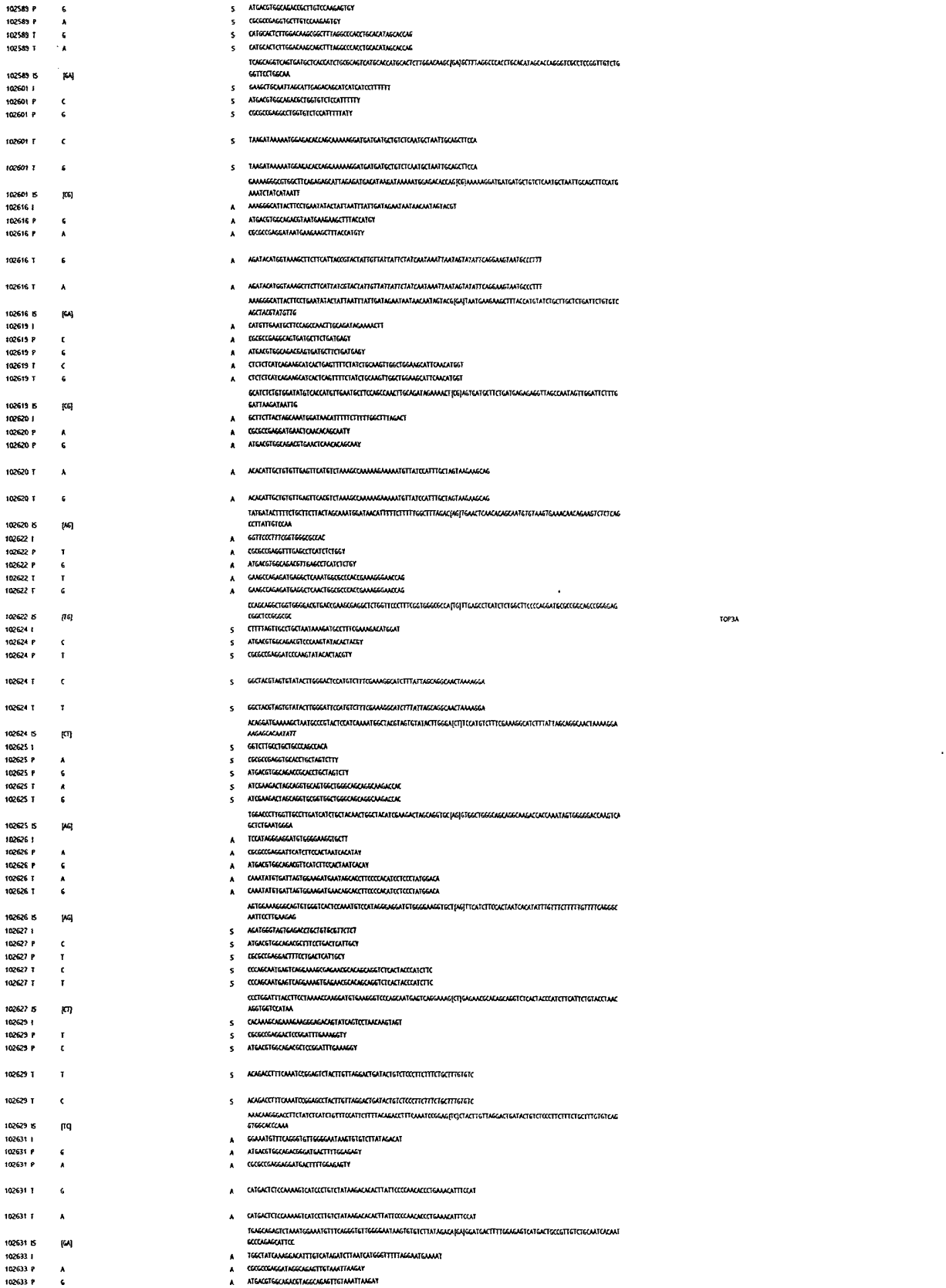


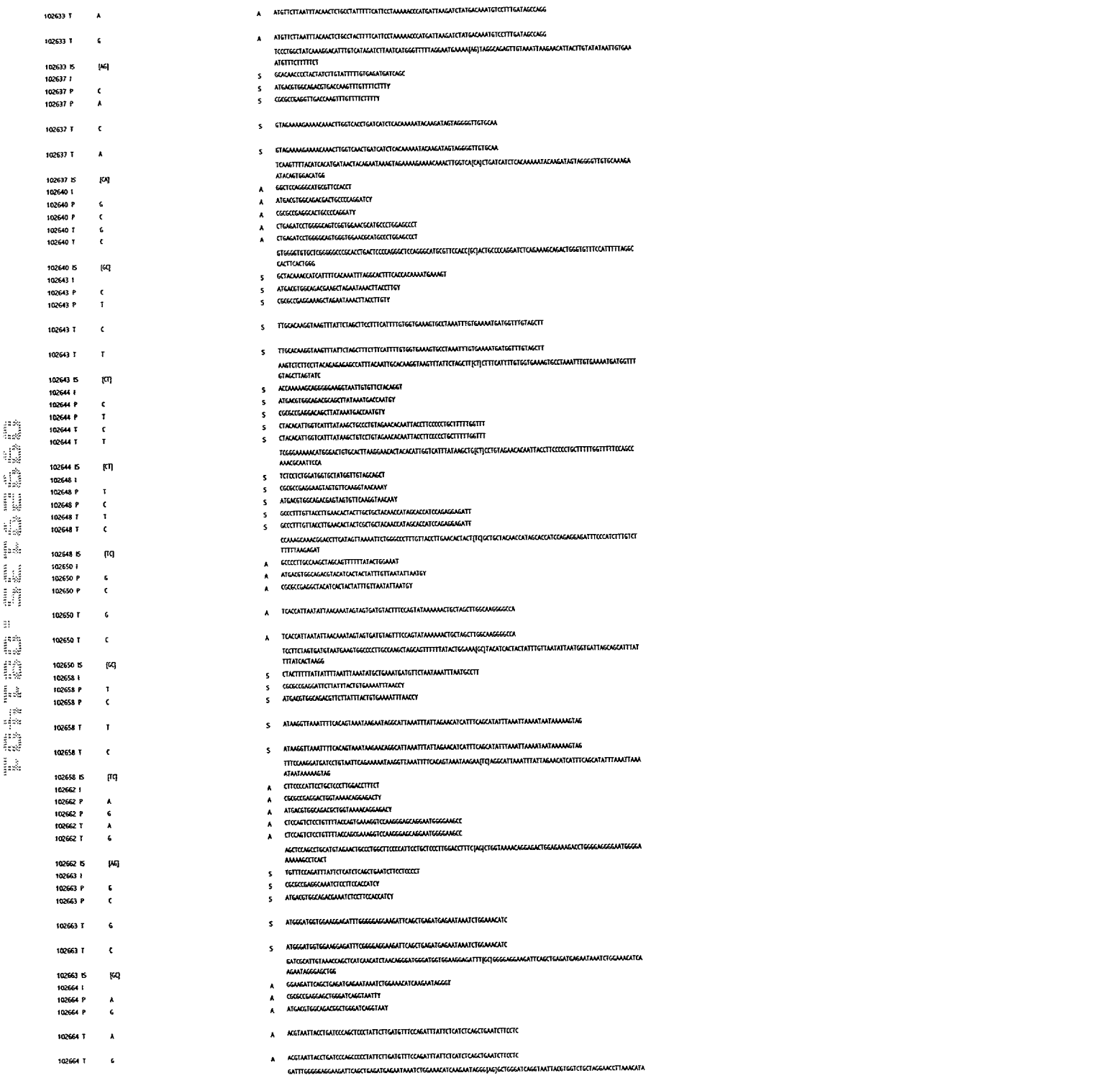
FIGURE 129C



TOF3A

PATENT APPLICATION

FIGURE 129C



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102666 P  A    S  CGCGCCCAGGTAAGATCTGCCTGTTGTGAT

102666 T  C    S  ATAATCACAACAGGCAGATCTTCTGTTAATCTTTACTTTTGAGTAAGACTATAGTAAGGTATTTCTTTATAAATATTTGCATC

102666 T  A    S  ATAATCACAACAGGCAGATCTTATGTTAATCTTTACTTTTGAGTAAGACTATAGTAAGGTATTTCTTTATAAATATTTGCATC

102666 IS [CA]   CAGGAAGTTAGGAGTATGATACAACTTATCAAGAAGAAATAATCACAACAGGCAGATCTTCATGTTAATCTTTACTTTTGAGTAAGACTATAGTAAGGTATTTCTTTA
                 TAAATATTTGCATC

102667 I         A  CCTGATGGATCCCCTGGCTCCATTGGGA

102667 P  T      A  CGCGCCCAAGGTCAAAGGGACAAAAAGTAAGTY

102667 P  C      A  ATGACGTGGCAGACCCAAAGGACACAAAAGTAAGY

102667 T  T      A  GCTAACTTACTTTTTGTCCCTTTGACCCAATGGAGCCAGGGGATCCATCAGGTC

102667 T  C      A  GCTAACTTACTTTTTGTCCCTTTGGCCCAATGGAGCCAGGGGATCCATCAGGTC

102667 IS [TC]   ATCATTGTCTTGCTCTATTAGGGATTAACAGGACCTGATGGATCCCCTGGCTCCATTGGGTCTCAAAGGGACAAAAAGTAAGTTAGCCATCTGGCATTAATTGCTAGTAC
                 GAAAATGCTGAAG

102669 I         S  GCATGGGCTCAAACATCAGACAGCATTCATGGATT

102669 P  T      S  CGCGCCCAAGGAGATGGATGAATGAATGGAAGY

102669 P  C      S  ATGACGTGGCAGACGGATGGATGAATGAATGGAAY

102669 T  T      S  TGTTCTTCCATTCATTCATCCATCTATCCATGAATGCTGTCTGATGTTTGAGCCCATGCTA

102669 T  C      S  TGTTCTTCCATTCATTCATCCATCCATGAATGCTGTCTGATGTTTGAGCCCATGCTA

102669 IS [TC]   TTCTTTCCTAAAGCAACTTTCTCAGGAACTTTGCTGGATGTTCTTCCATTCATTCATCCATCTCATCCATGAATGCTGTCTGATGTTTGAGCCCATGCTAGTCCAAGACACA
                 CAAGGAGATGAA

102672 I         S  GCTTTGCATCCAGGTCTGTAGGTGTTCTTT

102672 P  T      S  CGCGCCCAGGAAATTACTGATACGATTCCCTTY

102672 P  C      S  ATGACGTGGCAGACGAATTACTGATACGATTCCCTTY

102672 T  T      S  AAAGAAGGGAATCGTATCAGTAATTTAAGAACACCTACAGACCTGGATGCAAAGCAT

102672 T  C      S  AAAGAAGGGAATCGTATCAGTAATTCAAGAACACCTACAGACCTGGATGCAAAGCAT

102672 IS [TC]   AGTTCAGATTCTCTGAATATTGTATGCTTGTTGTAAAAGAAGGGAATCGTATCAGTAATTCTCAAGAACACCTACAGACCTGGATGCAAAGCATTAATATATGAACAAA
                 CCAAAGCGTATAGT

102676 I         S  CGTTAGTTAAGCAAACGTAACGCTGGGCTTTGCTTT

102676 P  T      S  CGCGCCCAGGATATAAAGAAAAGCCAGTCAAGY

102676 P  C      S  ATGACGTGGCAGACGTATAAAGAAAAGCCAGTCAAGY

102676 T  T      S  ACAGCTTGACTGGCTTTCTTTATATAAGCAAAGCCCAGCGTTACGTTTGCTTAACTAACGGC

102676 T  C      S  ACAGCTTGACTGGCTTTCTTTATACAAGCAAAGCCCAGCGTTACGTTTGCTTAACTAACGGC

102676 IS [TC]   TTTTCCAGTGGAGAGGGACGGCTTGTCTTTGGCCACAGCTTGACTGGCTTTTCTTTATA[TC]AAGCAAAGCCCAGCGTTACGTTTGCTTAACTAACGGCGTTCCTCTTTC
                 CCCAGCGCTGGC

102678 I         S  ACAAACAGCCCTTAGACACCGAGTAGGTGACCT

102678 P  T      S  CGCGCCGAGGATGGTCTTACTCAGGTTATATATTTY

102678 P  C      S  ATGACGTGGCAGACGTGGTCTTACTCAGGTTATATATTY

102678 T  T      S  TTAAAATATATAACCTGAGTAAGACCATGGTCACCTACTCGGTGTCTAAGGGCTGTTTTGTTT

102678 T  C      S  TTAAAATATATAACCTGAGTAAGACCACGGTCACCTACTCGGTGTCTAAGGGCTGTTTTGTTT

102678 IS [TC]   CTTGTGCCTAAAACAAATTAAAAGCATATGTTTAAAAATATATAACCTGAGTAAGACCA[TC]GGTCACCTACTCGGTGTCTAAGGGCTGTTTTGTTTTTAACCCAAACT
                 CCAAAAAGAGAAA

102686 I         A  AGAAGCCATGTATTCTTTAGGCCCTGAAGTACAAATGCTGT

102686 P  C      A  CGCGCCGAGGCGGCTTCATTTCTGGGY

102686 P  G      A  ATGACGTGGCAGACGGGCTTCATTTCTGGGY

102686 T  C      A  CCATCCCAGAAATGAAGCCCGCAGCATTTGTACTTCAGGGCCTAAAGAATACATGGCTTCTGG

102686 T  G      A  CCATCCCAGAAATGAAGCCCCAGCATTTGTACTTCAGGGCCTAAAGAATACATGGCTTCTGG

102686 IS [CG]   CATTCATATTGTGAAACTCCAGAAGCATGTATTCTTTAGGCCCTGAAGTACAAATGCTG[CG]GGCTTCATTTCTGGGATGGTTGTTCTAACACTCAGTTTCTGCTATTT
                 CTCATGAGCAGGG

102691 I         A  CCCAGTCTGGAGTTGGGACGCACTAGT

102691 P  A      A  CGCGCCCAGGCATGTACAAAAGGTCAGGATGTY

102691 P  G      A  ATGACGTGGCAGACGTGTAGAAAGGTCAGGATGY

102691 T  A      A  GGGGACATCCTGACCTTTCTACATCCTAGTGCGTCCCAACTCCAGACTGGGAG

102691 T  G      A  GGGGACATCCTGACCTTTCTACACCCTAGTGCGTCCCAACTCCAGACTGGGAG

102691 IS [AG]   AAGGGAAAAGACCAGAGGCCGCAGACGTCTCCTCCCAGTCTGGAGTTGGGACGCACTAGG[AG]TGTAGAAAGGTCAGGATGTCCCCCCACCCCAAACCCACACGCGCTTG
                 CGACCACACACGC

102693 I         S  ACCTGGCTTTGGAGTTGTAATGCTGGCC

102693 P  A      S  CGCGCCCAGGTTGTTTTCTGACATAATCAACCY

102693 P  T      S  ATGACGTGGCAGACATGTTTTCTGACATAATCAACCY

102693 T  A      S  AAGTGGTTGATTATGTCAGAAAACAAGCCAGCATTACAACTCCAAAGCCAGGTAA

102693 T  T      S  AAGTGGTTGATTATGTCAGAAAACATGCCAGCATTACAACTCCAAAGCCAGGTAA

102693 IS [AT]   TGAGGTCCAGTATTGTAGTTCAAACGAGTTGGGTCAAGTGGTTGATTATGTCAGAAAACA[AT]GCCAGCATTACAACTCCAAAGCCAGGTAAAATAATTTGTTTCTTTA
                 ATATACACCAAATG

102695 I         S  CAGATCATGGTAACTAAAGTCTAGGCAAGTTAGGGCTATCATT

102695 P  T      S  CGCGCCGAGGACTGTTAATAATGTCAATGTTATCATY

102695 P  C      S  ATGACGTGGCAGACGCTGTTAATAATGTCAATGTTATCAY

102695 T  T      S  TTGGATGATAACATTGACATTATTAACAGTATGATAGCCCTAACGTTGCCTAGACTTTAGTTACCATGATCTGAT

102695 T  C      S  TTGGATGATAACATTGACATTATTAACAGCATGATAGCCCTAACGTTGCCTAGACTTTAGTTACCATGATCTGAT

102695 IS [TC]   TCCTGACTTTGTTTTTTTCAAAGCTAATCCTTTGGATGATAACATTGACATTATTAACAG[TC]ATGATAGCCCTAACGTTGCCTAGACTTTAGTTACCATGATCTGATTT
                 CTTACATGAAAGA

102696 I         A  GCCCATGAAATGCTCATTCTCCTGCCAGCAT

102696 P  C      A  ATGACGTGGCAGACCTGATTATTTTGGGCAGGTY

102696 P  A      A  CGCGCCGAGGATGATTATTTTGGGCAGGTY

102696 T  C      A  TTTCACTGCCCAAAATAATCAGTGCTGGCAGGAGAATGAGCATTTCATGGGCTT

102696 T  A      A  TTTCACTGCCCAAAATAATCATTGCTGGCAGGAGAATGAGCATTTCATGGGCTT

102696 IS [CA]   CCAAACACCATCCTTGACGTCTGTCTGAAGCCCATGAAATGCTCATTCTCCTGCCAGCA[CA]TGATTATTTTGGGCAGGTGAAATGCTCATGAGACTCCACTTACCATCC
                 AACAGCCAGCTA

102698 I         S  CCCCATCCCTCATTTCATACCCCTGCCATGA

102698 P  G      S  ATGACGTGGCAGACCCTGCTGCAGAGTATCAY

102698 P  A      S  CGCGCCGAGGTCTGCTGCAGAGTATCAY

102698 T  G      S  AGTGTGATACTCTGCAGCAGGCATGGCAGGGGTATGAAATGAGGGATGGGGCT

102698 T  A      S  AGTGTGATACTCTGCAGCAGACATGGCAGGGGTATGAAATGAGGGATGGGGCT

102698 IS [GA]   CAAGGTTATTCACAGTCCCCCTCCCCGCTCCCCTCTGAACCAGTGTGATACTCTGCAGCAG[GA]CATGGCAGGGGTATGAAATGAGGGATGGGGCTGGGGCCATGATCCAA
                 GTCAGGTCATTTT

102699 I         S  CTGTGTGCTTCTCTTGATGCGTCAGTGATAGCAACT

102699 P  T      S  CGCGCCGAGGAGTCAAACAAATCTGGAGY

102699 P  C      S  ATGACGTGGCAGACGGTCAAACAAATCTGGAY

102699 T  T      S  GTTCCTCCAGATTGTGTTTGACTGTTGCTATCACTGACGCATCAAGAGAAGCACACAGCT

102699 T  C      S  GTTCCTCCAGATTGTGTTTGACGTTGCTATCACTGACGCATCAAGAGAAGCACACAGCT

102699 IS [TC]   CAACTTACACTTCTGGGGCTTATAAACAACTTGCTCCAGTTCCTCCAGATTGTGTTTGACTTCGTTGCTATCACTGACGCATCAAGAGAAGCACACAGCTTGCAGATATA
                 ATCCAAGGCTTCA

102700 I         A  CGTGTCTAACAGGTGGGTGAGGCCACT

102700 P  A      A  CGCGCCGAGGAGGTGGCAGCTGGY

102700 P  G      A  ATGACGTGGCAGACGGGTGGCAGCTGGY

102700 T  A      A  CGCCCCAGCTGCCACCTGTGGCCTCACCCACCTGGTAGACACGGT

102700 T  G      A  CGCCCCAGCTGCCACCCGTGGCCTCACCCACCTGGTAGACACGGT
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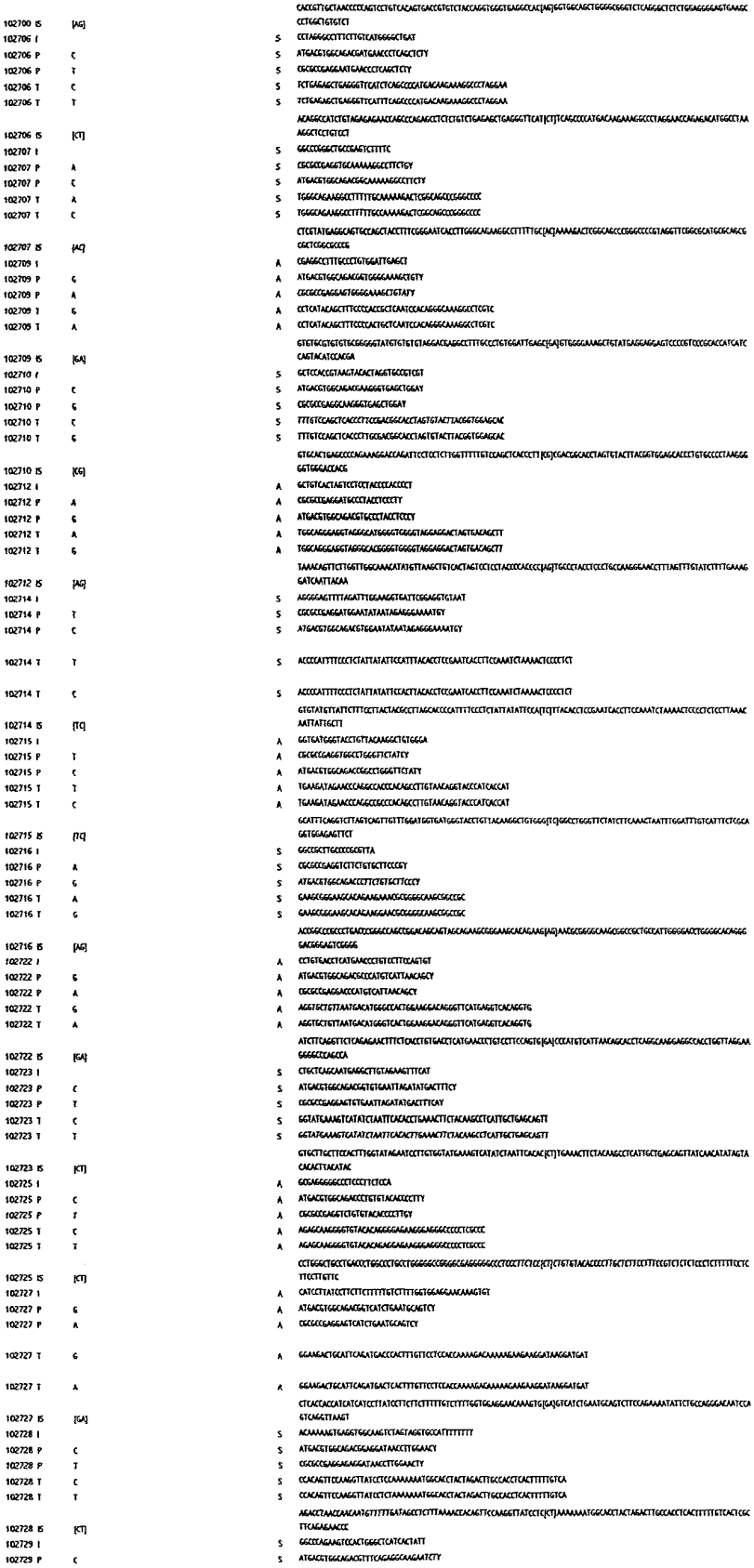
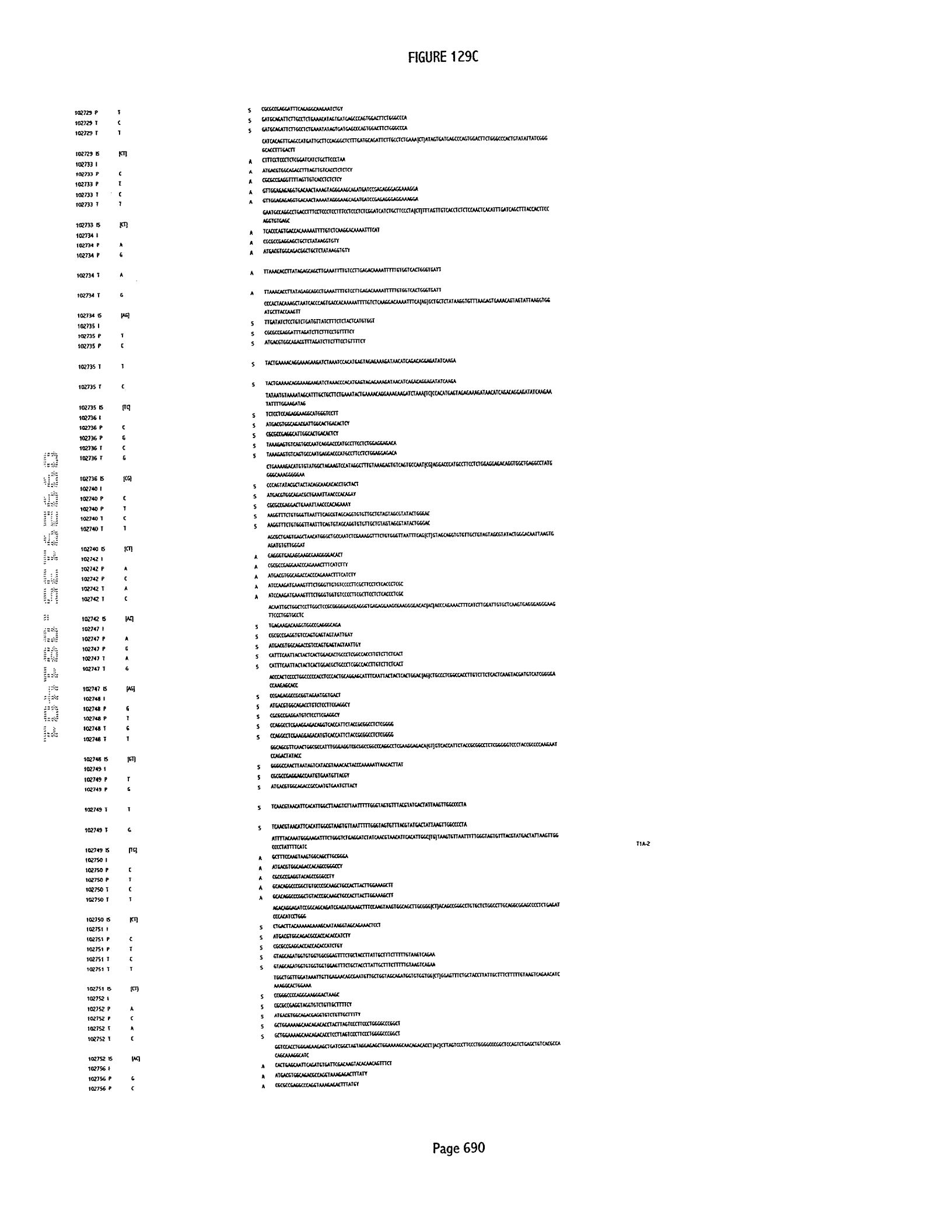


FIGURE 129C



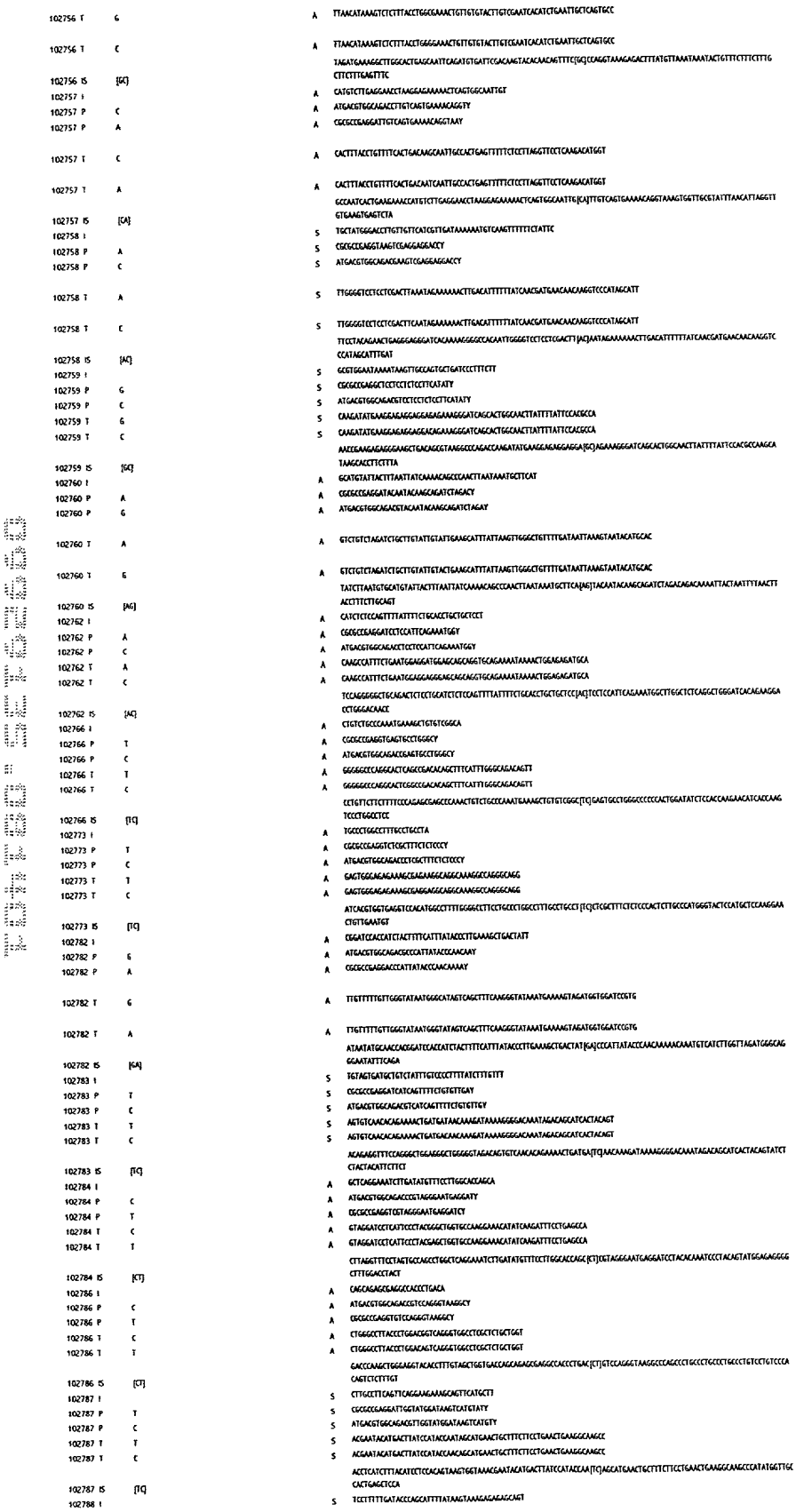


FIGURE 129C

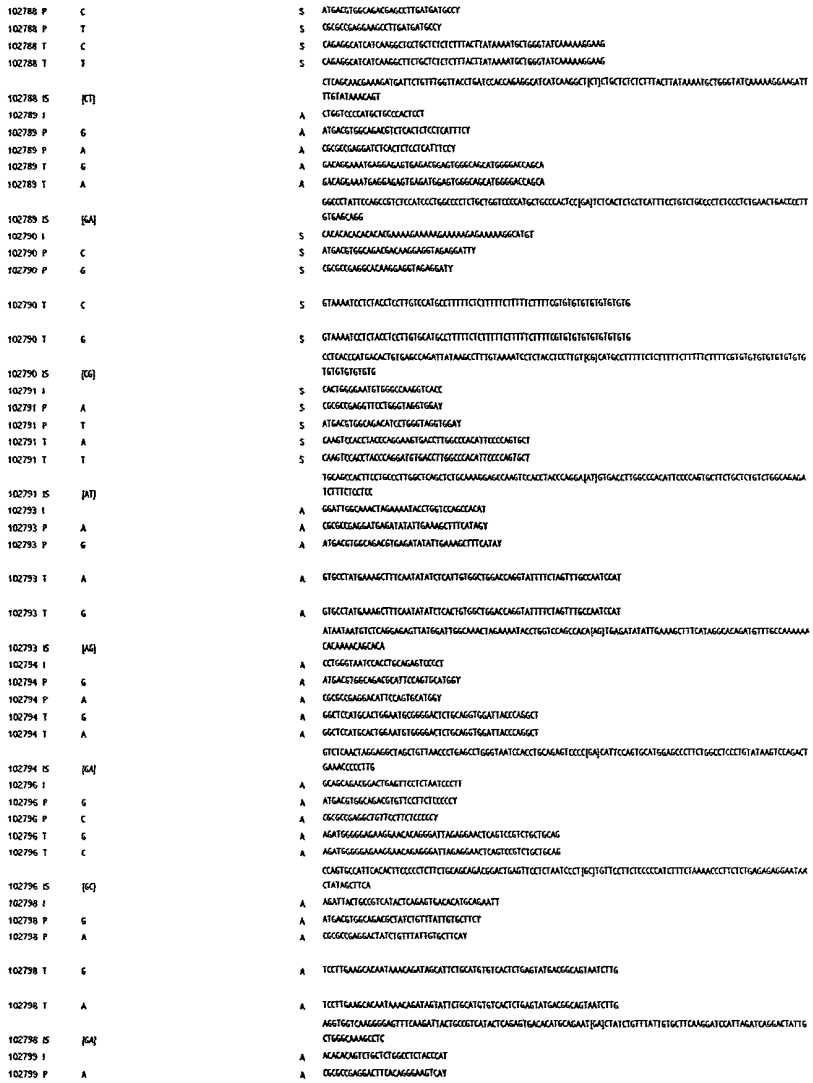

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102788 P T S CGCGCCGAGGAAGCCTTGATGATGCCY
102788 T C S CAGAGGCATCATCAAGGCTCCTGCTCTCTCTTTACTTATAAAATGCTGGGTATCAAAAAGGAAG
102788 T T S CAGAGGCATCATCAAGGCTTCTGCTCTCTCTTTACTTATAAAATGCTGGGTATCAAAAAGGAAG
102788 IS [CT] CTCAGCAACGAAAGATGATTCTGTTGGTTACCTGATCCACCAGAGGCATCATCAAGGCT[CT]CTGCTCTCTCTTTACTTATAAAATGCTGGGTATCAAAAAGGAAGATT TTGTATAAACAGT
102789 I A CTGGTCCCCATGCTGCCCCACTCCT
102789 P G A ATGACGTGGCAGACGTCTCACTCTCCTCATTTCT
102789 P A A CGCGCCGAGGATCTCACTCTCCTCATTTCCY
102789 T G A GACAGCAAATGAGGACAGTGAGACGGAGTGGGCAGCATGGGGACCAGCA
102789 T A A GACAGCAAATGAGGACAGTGAGATGGAGTGGGCAGCATGGGGACCAGCA
102789 IS [GA] GGCCCTATTCCAGCCGTCTCCATCCCTGGCCCCTCTGCTGGTCCCCATGCTGCCCACTCC[GA]TCTCACTCTCCTCATTTCCTGTCTGCCCCTCCCCTCTGAACTGACCCCTT GTGAGCAGG
102790 I S CACACACACACACAGAAAGAAAAAGAAAAAGAGAAAAAGGCATGT
102790 P C S ATGACGTGGCAGACGACAAGGAGGTAGAGGATTY
102790 P G S CGCGCCGAGGCACAAGAGGTAGAGGATY
102790 T C S GTAAAATCCTCTACCTCCTTGTCCATGCCTTTTTCTCTTTTTCTTTTTCTTTTGGTGTGTGTGTGTGTGTG
102790 T G S GTAAAATCCTCTACCTCCTTGTGCATGCCTTTTTCTCTTTTTCTTTTTCTTTTGGTGTGTGTGTGTGTG
102790 IS [CG] CCTCACCCATGACACTGTGAGCCAGATTATAAGCCTTGTAAAATCCTCTACCTCCTTGT[CG]CATGCCTTTTTCTCTTTTTCTTTTTCTTTTGGTGTGTGTGTGTGTG TGTGTGTGTGTG
102791 I S CACTGGGGAATGTGGGCCAAGGTCACC
102791 P A S CGCGCCGAGGTTCCTGGGTAGGTGGAY
102791 P T S ATGACGTGGCAGACATCCTGGGTAGGTGGAY
102791 T A S CAAGTCCACCTACCCAGGAAGTGACCTTGGCCCACATTCCCCAGTGCT
102791 T T S CAAGTCCACCTACCCAGGATGTGACCTTGGCCCACATTCCCCAGTGCT
102791 IS [AT] TGCAGCCACTTCCTGCCCTTGGCTCAGCTCTGCAAAGCAGCCAAGTCCACCTACCCAGGA[AT]GTGACCTTGGCCCACATTCCCCAGTGCTTCTGTCTGTCTGGCACAGCA TCTTTCTCCTCC
102793 I A GGATTGGCAAACTAGAAAATACCTGGTCCAGCCACAT
102793 P A A CGCGCCGAGGATGAGATATATTGAAAGCTTTCATAGY
102793 P G A ATGACGTGGCAGACGTGAGATATATTGAAAGCTTTCATAY
102793 T A A GTGCCTATGAAAGCTTTCAATATATCTCATTGTGGCTGGACCAGGTATTTTCTAGTTTGCCAATCCAT
102793 T G A GTGCCTATGAAAGCTTTCAATATATCTCACTGTGGCTGGACCAGGTATTTTCTAGTTTGCCAATCCAT
102793 IS [AG] ATAATAATGTCTCAGGAGAGTTATGGATTGGCAAACTAGAAAATACCTGGTCCAGCCACA[AG]TGAGATATATTGAAAGCTTTCATAGGCACAGATGTTTGCCAAAAAA CACAAACAGCACA
102794 I A CCTGGGTAATCCACCTGCAGAGTCCCCT
102794 P G A ATGACGTGGCAGACGCATTCCAGTGCATGGY
102794 P A A CGCGCCGAGGACATTCCAGTGCATGGY
102794 T G A GGCTCCATGCACTGGAATGCGGGGGACTCTGCAGGTGGATTACCCAGGCT
102794 T A A GGCTCCATGCACTGGAATGTGGGGACTCTGCAGGTGGATTACCCAGGCT
102794 IS [GA] GTCTCAACTAGCAGGCTAGCTGTTAACCCTGAGCCTGGGTAATCCACCTGCAGAGTCCCC[GA]CATTCCAGTGCATGGAGCCCTTCTGGCCTCCCTGTATAAGTCCAGACT GAAACCCCCTTG
102796 I A GCAGCAGACGGACTGAGTTCCTCTAATCCCTT
102796 P G A ATGACGTGGCAGACGTGTTCCTTCTCCCCCY
102796 P C A CGCGCCGAGGCTGTTCCTTCTCCCCCY
102796 T G A AGATGGGGGAGAAGGAACACAGGGATTAGAGGAACTCAGTCCGTCTGCTGCAG
102796 T C A AGATGGGGGAGAAGGAACACAGGGATTAGAGGAACTCAGTCCGTCTGCTGCAG
102796 IS [GC] CCAGTGCCATTCACACTTCCCCCTCTTCTGCAGCAGACGGACTGAGTTCCTCTAATCCCT[GC]TGTTCCTTCTCCCCCATCTTTCTAAAACCCTTCTCTGAGAGAGGAATAA CTATAGCTTCA
102798 I A AGATTACTGCCGTCATACTCAGAGTGACACATGCAGAATT
102798 P G A ATGACGTGGCAGACGCTATCTGTTTATTGTGCTTCT
102798 P A A CGCGCCGAGGACTATCTGTTTATTGTGCTTCAY
102798 T G A TCCTTGAAGCACAATAAACAGATAGCATTCTGCATGTGTCACTCTGAGTATGACGGCAGTAATCTTG
102798 T A A TCCTTGAAGCACAATAAACAGATAGTATTCTGCATGTGTCACTCTGAGTATGACGGCAGTAATCTTG
102798 IS [GA] AGGTGGTCAAGGGGAGTTTCAAGATTACTGCCGTCATACTCAGAGTGACACATGCAGAAT[GA]CTATCTGTTTATTGTGCTTCAAGGATCCATTAGATCAGGACTATTG CTGGGCAAAGCCTC
102799 I A ACACACAGTCTGCTCTGGCCTCTACCCAT
102799 P A A CGCGCCGAGGACTTCACAGGGAAGTCAY
102799 P C A ATGACCTGGCCAGACCCTTCACAGGGAAGTCAY
102799 T A A CACCTGACTTCCCTGTGAAGTTGGGTAGAGGCCAGAGCAGACTGTGTGTGA
102799 T C A CACCTGACTTCCCTGTGAAGGTGGGTAGAGGCCAGAGCAGACTGTGTGTGA
102799 IS [AC] GGGGTAGAGGTGCTGGGGCTGGGGCAGAATCACACACAGTCTGCTCTGGCCTCTACCCA[AC]CTTCACAGGGAAGTCAGGTGCCTGAAGCCAGCAGAACTTGCTCTGGG ACCAGGCTGCAGG
102800 I A GTTTCCGGGGGGAGAATGGCTGCCCT
102800 P A A CGCGCCGAGGACCCTCGTGGATGGY
102800 P G A ATGACGTGGCAGACGCCGTCGTGGATGGY
102800 T A A TCCACCATCCAGCAGCGGTGGGCAGCCATTCTCCCCCCGAAACAC
102800 T G A TCCACCATCCAGCAGCGGTGGGCAGCCATTCTCCCCCCGAAACAC
102800 IS [AG] GCGGAAGTTTGGGCGGAAGAGCGGGTGAGCACCCGTGTTTCCCGGGGAGAGAATGGCTGCCC[AG]CCGTCCTGGATGGTGGAGTTTTACCTACAACTAGCCAATGCATGAA GAAAAAACAAACAA
102801 I A AGAAGAGAGTTAAAGCAAGAATCCTCATGACAAGGGT
102801 P G A ATGACGTGGCAGACGTGGCTACTCTGGCAY
102801 P A A CGCGCCGAGGATGGCTACTCTGGCATY
102801 T G A GAAAATGCCAGAGTAGCCACCCCCTTGTCATGAGGATTCTTGCTTTAACTCTCTTCTTT
102801 T A A GAAAATGCCAGAGTAGCCATGCCTTGTCATGAGGATTCTTGCTTTAACTCTCTTCTTT
102801 IS [GA] AAATAAAACCCCCCACAAGATTAAAGAAGAGAGTTAAAGCAAGAATCCTCATGACAAGGG[GA]TGGCTACTCTGGCATTTTCAAGTCTTGAGGTTGCTGTTTTCCAGGG GGTGATGTGGTAAG
102802 I S AGAATTGCTGGCCTCACTAAACACCAAAGTTTGGGT
102802 P C S ATGACGTGGCAGACGTGCCTCTGAGCAGTY
102802 P T S CGCGCCGAGGATGCCTCTGAGCAGTAGY
102802 T C S GATCCTACTGCTCAGAGGCACCCCAACTTTGGTGTTTAGTGAGGCCAGCAATTCTCT
102802 T T S GATCCTACTGCTCAGAGGCATCCCAAACTTTGGTGTTTAGTGAGGCCAGCAATTCTCT
102802 IS [CT] AGCCATTGACTGCACAGATTTGCCCTGGATAGACCCTATTGATCCTACTGCTCAGAGGCA[CT]CCCAAACTTTGGTGTTTAGTGAGGCCAGCAATTCTCTCTGGTGGTGA ACTCCCTGGGGTA
102804 I S GTGGGATTTTGCCTTTGGTAATGCTGTTTCTGCTTAAGTTGT
102804 P C S ATGACGTGGCAGACGCAAGACACTCCAAGTTTY
102804 P G S CGCGCCGAGGCCAAGACACTCCAAGTTTY
102804 T C S TGCCAAACTTGGAGTGTCTTGCCAACTTAAGCAGAAACAGCATTACCAAAAGGCAAAATCCCACCA
102804 T G S TGCCAAACTTGGAGTGTCTTGGCAACTTAAGCAGAAACAGCATTACCAAAAGGCAAAATCCCACCA
102804 IS [CG] CATAAGAAGCTAAATAAACACAACCCTCTCTACCTTTCATGCCAAACTTGGAGTGTCTTG[CG]CAACTTAAGCAGAAACAGCATTACCAAAAGGCAAAATCCCACCACAG ACGCAATCACCAC
102806 I S GCAATGATGTTGCCTAATACAAAACCAAACAAATCAAGCTTACAAACAGTACT
102806 P T S CGCGCCGAGGAAGTGCTAAGAGAAGCTGAY
102806 P C S ATGACGTGGCAGACGAGTGCTAAGAGAAGCTGY

FIGURE 129C

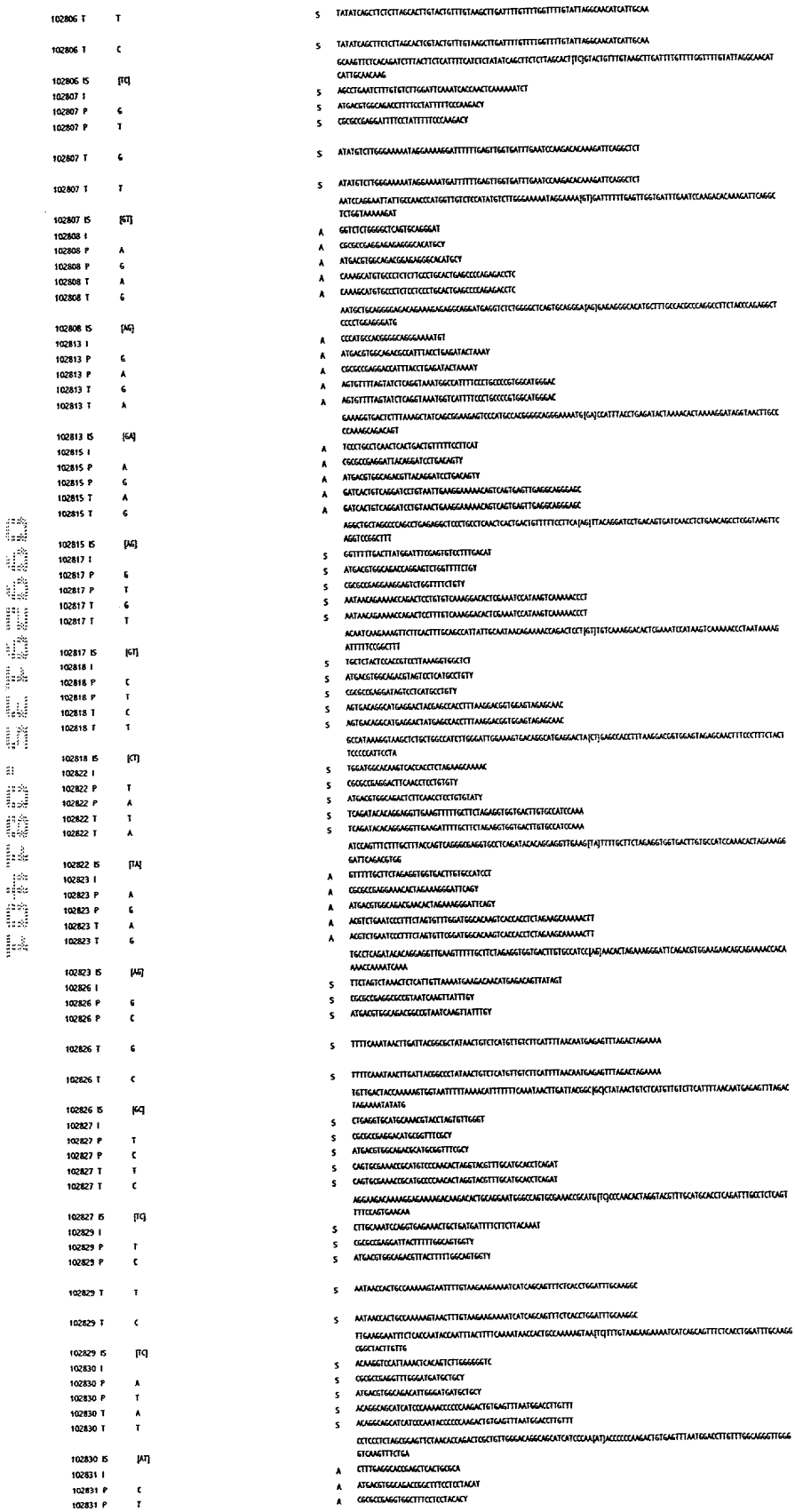

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CATTGCAACAAG
102806 IS [TC]
102807 I
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102807 P G
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102807 P T
S CGCGCCGAGGATTTTCCTATTTTTCCCAAGACY
102807 T G
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102807 T T
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102807 IS [GT]
102808 I
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102808 P A
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102808 P G
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102808 T G
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102813 T A
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102813 IS [GA]
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102815 P A
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102815 P G
A ATGACGTGGCAGACGGTTACAGGATCCTGACAGTY
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A GATCACTGTCAGGATCCTGTAATTGAAGGAAAAACAGTCAGTGAGTTGAGGCAGGGAGC
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102817 P G
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102817 P T
S CGCGCCCAGGAAGGAGTCTGGTTTTCTGTY
102817 T G
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102817 T T
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102818 P C
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102818 P T
S CCGCGCCGAGGATAGTCCTCATGCCTGTY
102818 T C
S AGTGACAGGCATGAGGACTACGAGCCACCTTTAAGGACGGTGGAGTAGAGCAAC
102818 F T
S AGTGACAGGCATGAGGACTATGAGCCACCTTTAAGGACGGTGGAGTAGAGCAAC
GCCATAAAGGTAAGCTCTGCTGGCCATCTTGGGATTGGAAAGTGACAGGCATGAGGACTA[CT]GAGCCACCTTTAAGGACGGTGGAGTAGAGCAACTTTCCCTTTCTACT
TCCCCCATTCCTA
102818 IS [CT]
102822 I
S TGGATGGCACAAGTCACCACCTCTAGAAGCAAAAC
102822 P T
S CGCGCCGAGGAACTTCAACCTCCTGTGTY
102822 P A
S ATGACGTGGCAGACTCTTCAACCTCCTGTGTATY
102822 T T
S TCAGATACACAGGAGGTTGAAGTTTTTGCTTCTAGAGGTGGTGACTTGTGCCATCCAAA
102822 T A
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GATTCAGACGTGG
102822 IS [TA]
102823 I
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102823 P A
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102823 P G
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102823 T A
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102823 T G
A ACGTCTGAATCCCTTTCTAGTGTTCGGATGGCACAAGTCACCACCTCTAGAAGCAAAAACTT
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102826 I
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102826 P G
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102826 P C
S ATGACGTGGCAGACGGCCGTAATCAAGTTATTGY
102826 T G
S TTTTCAAATAACTTGATTACGGCGCTATAACTGTCTCATGTTGTCTTCATTTTAACAATGAGAGTTTAGACTAGAAAA
102826 T C
S TTTTCAAATAACTTGATTACGGCCCTATAACTGTCTCATGTTGTCTTCATTTTAACAATGAGAGTTTAGACTAGAAAA
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TAGAAAATATATG
102826 IS [GC]
102827 I
S CTGAGGTGCATGCAAACGTACCTAGTGTTGGGT
102827 P T
S CGCGCCGAGGACATGCGGTTTCGCY
102827 P C
S ATGACGTGGCAGACGCATGCGGTTTCGCY
102827 T T
S CAGTGCGAAACCGCATGTCCCAACACTAGGTACGTTTGCATGCACCTCAGAT
102827 T C
S CAGTGCGAAACCGCATGCCCCAACACTAGGTACGTTTGCATGCACCTCAGAT
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TTTCCAGTGAACAA
102827 IS [TC]
102829 I
S CTTGCAAATCCAGGTGAGAAACTGCTGATGATTTTCTTCTTACAAAT
102829 P T
S CGCGCCGAGGATTACTTTTGGCAGTGGTY
102829 P C
S ATGACGTGGCAGACGTTACTTTTGGCAGTGGTY
102829 T T
S AATAACCACTGCCAAAAAGTAATTTTGTAAGAAGAAAATCATCAGCAGTTTCTCACCTGGATTTGCAAGGC
102829 T C
S AATAACCACTGCCAAAAAGTAACTTTGTAAGAAGAAAATCATCAGCAGTTTCTCACCTGGATTTGCAAGGC
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CGGCTACTTGTTG
102829 IS [TG]
102830 I
S ACAAGGTCCATTAAACTCACAGTCTTGGGGGGTC
102830 P A
S CGCGCCGAGGTTTGGGATGATGCTGCY
102830 P T
S ATGACGTGGCAGACATTGGGATGATGCTGCY
102830 T A
S ACAGGCAGCATCATCCCAAAACCCCCCAAGACTGTGAGTTTAATGGACCTTGTTT
102830 T T
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GTCAAGTTTCTGA
102830 IS [AT]
102831 I
A CTTTGAGGCACCGAGCTCACTGCGCA
102831 P C
A ATGACGTGGCAGACCGGCTTTCCTCCTACAY
102831 P T
A CGCGCCGAGGTGGCTTTCCTCCTACACY

FIGURE 129C

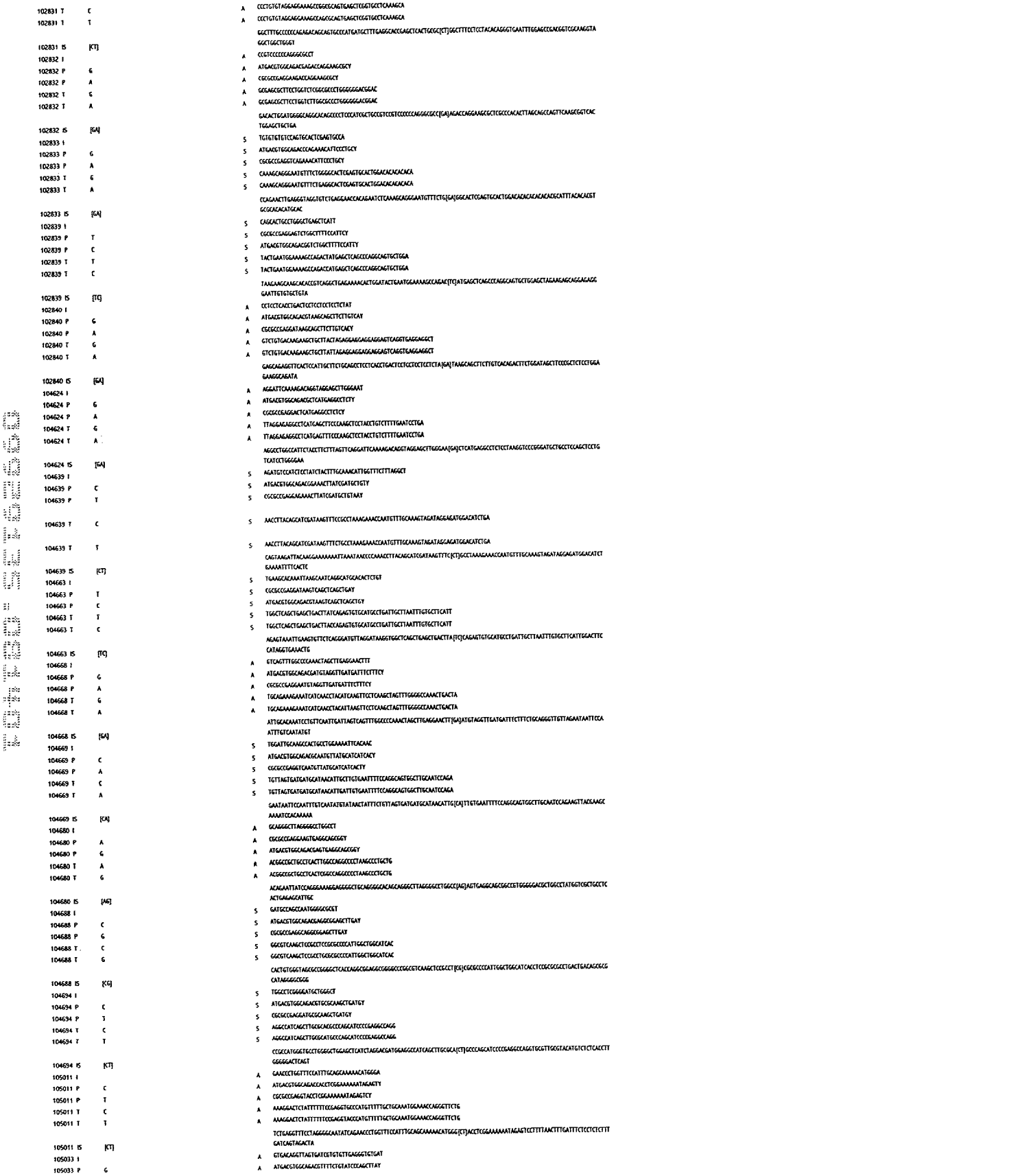
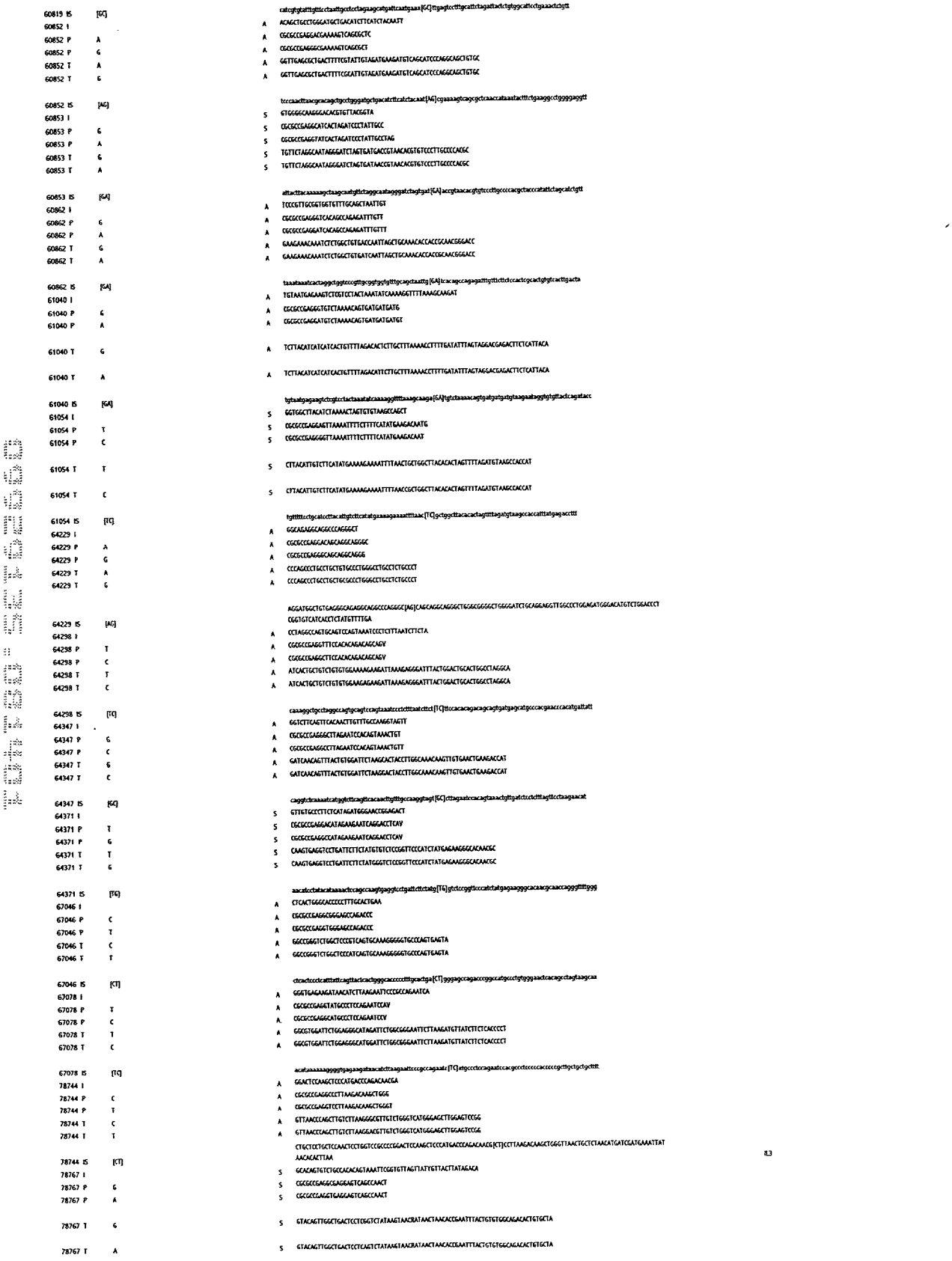
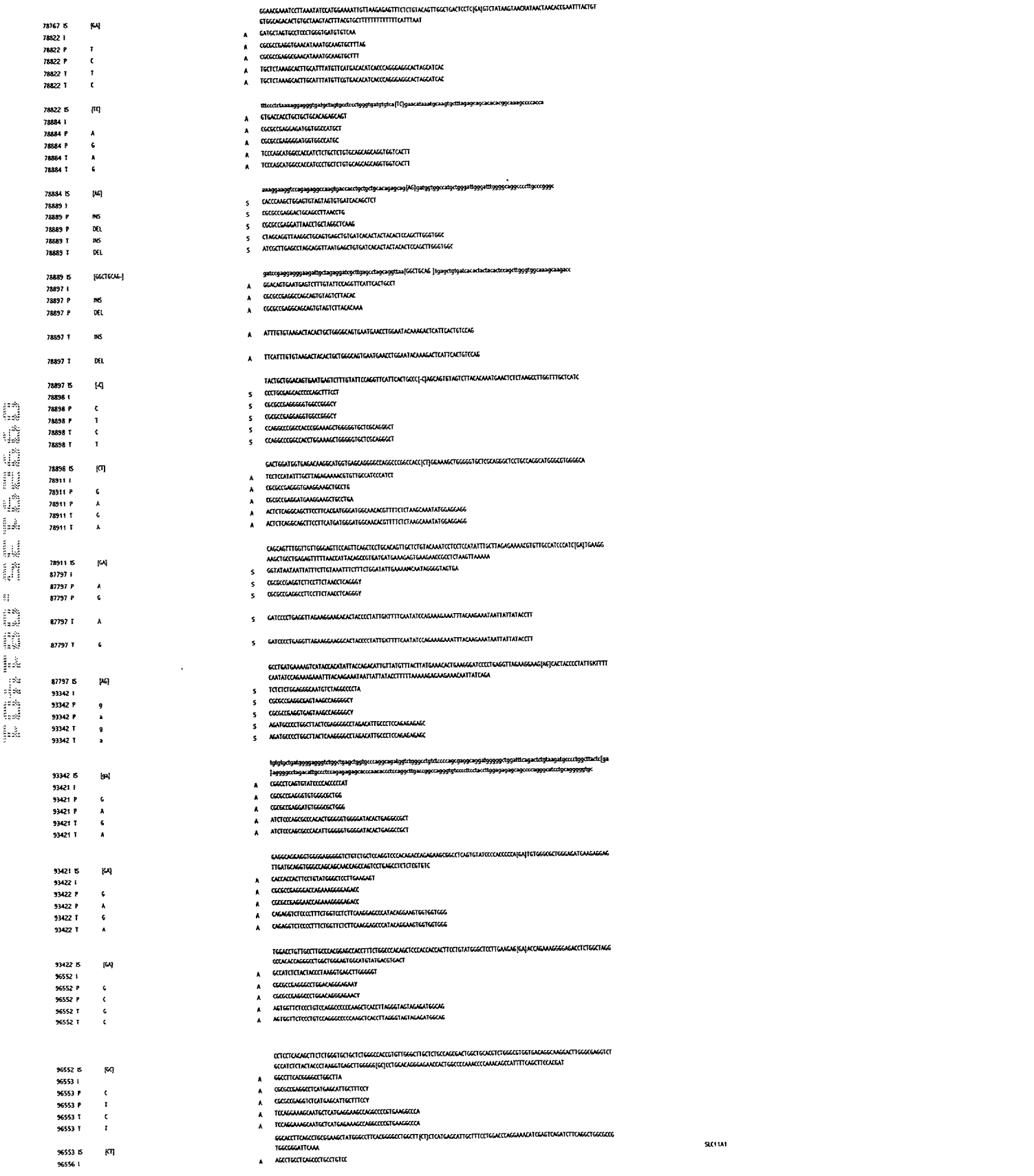


FIGURE 129C



FIGURE 129C





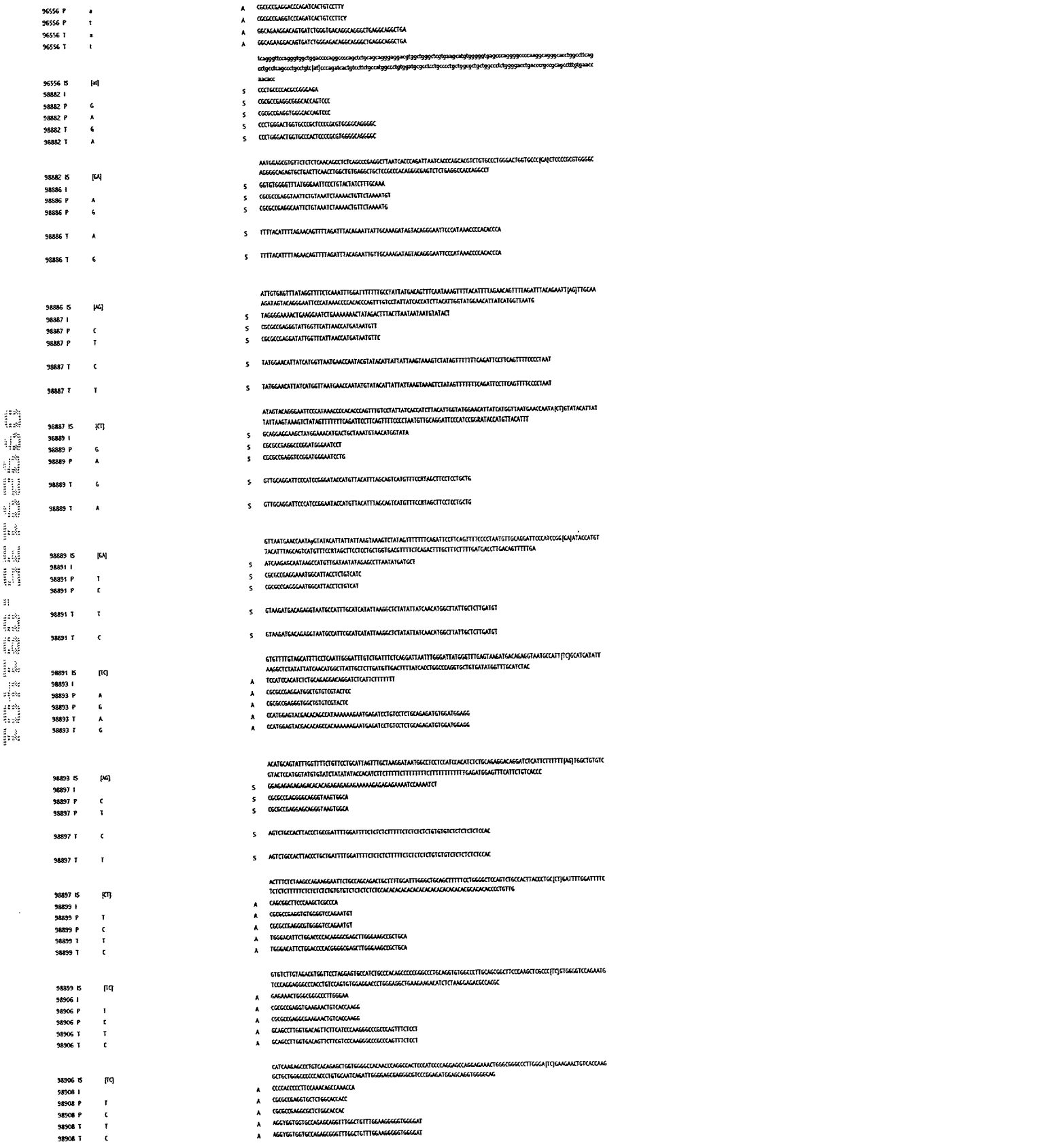

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98887 P C
98887 P T
98887 T C
98887 T T
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98889 P G
98889 P A
98889 T G
98889 T A
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98891 P C
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98891 T C
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98908 T C

FIGURE 129C

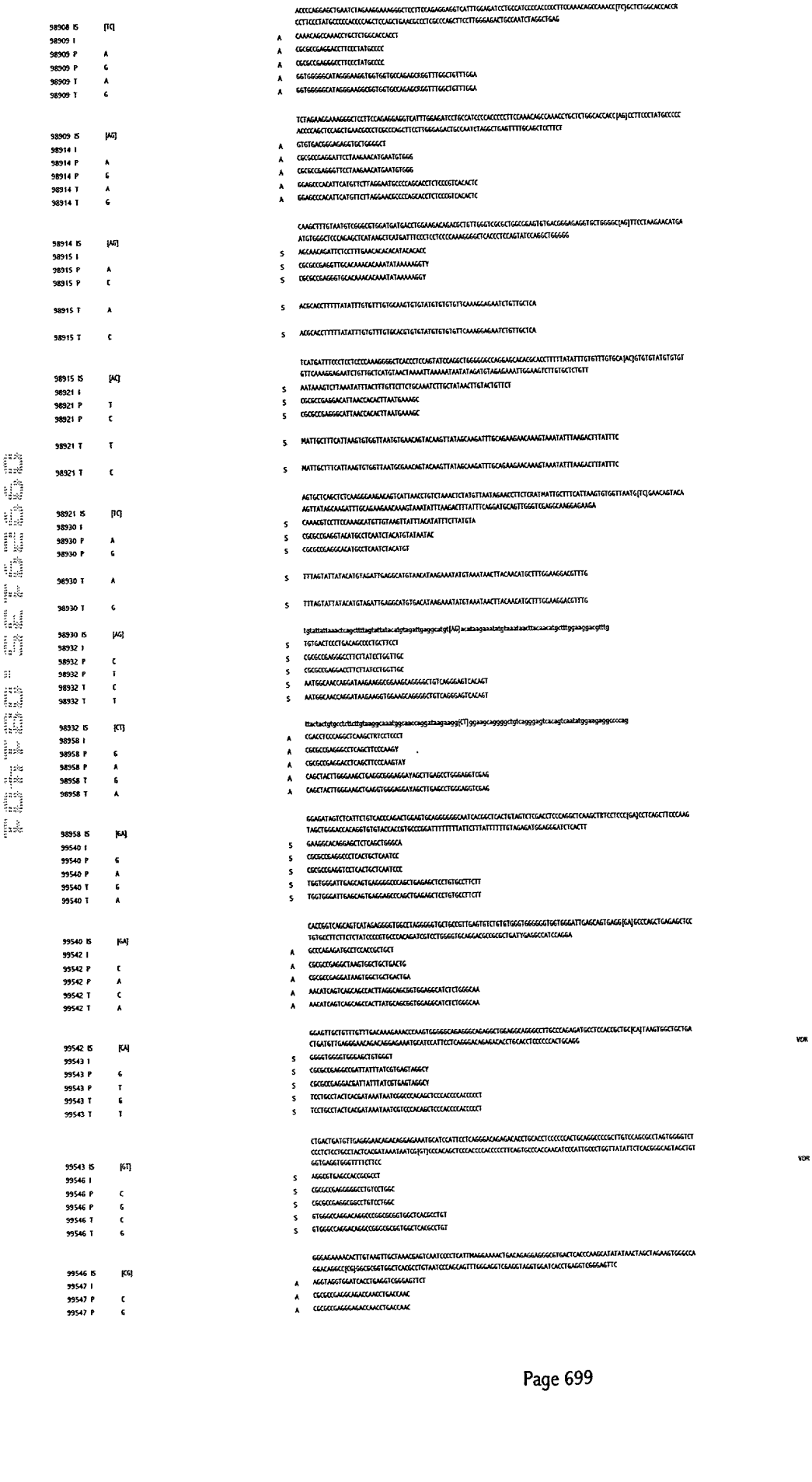
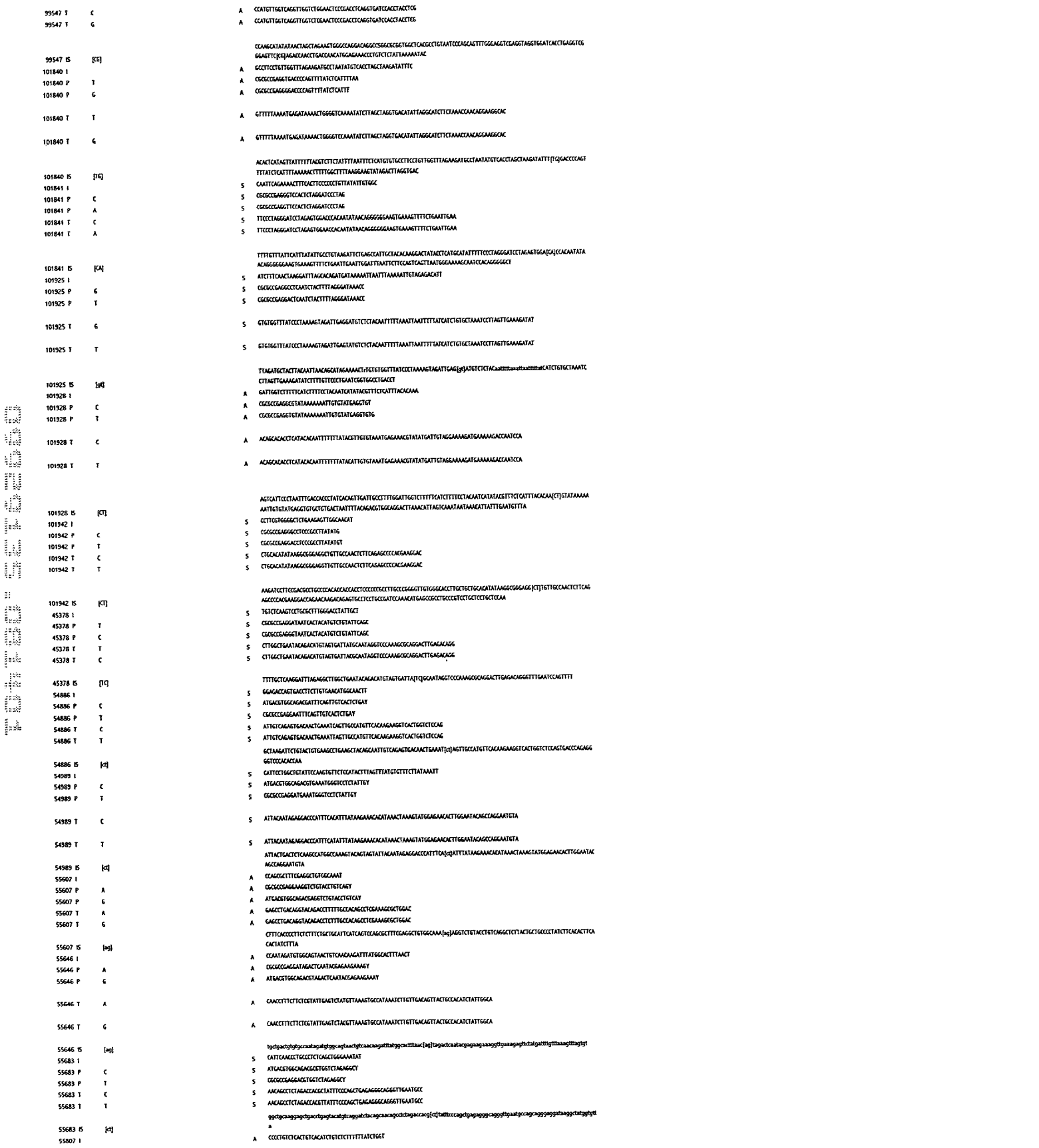


FIGURE 129C



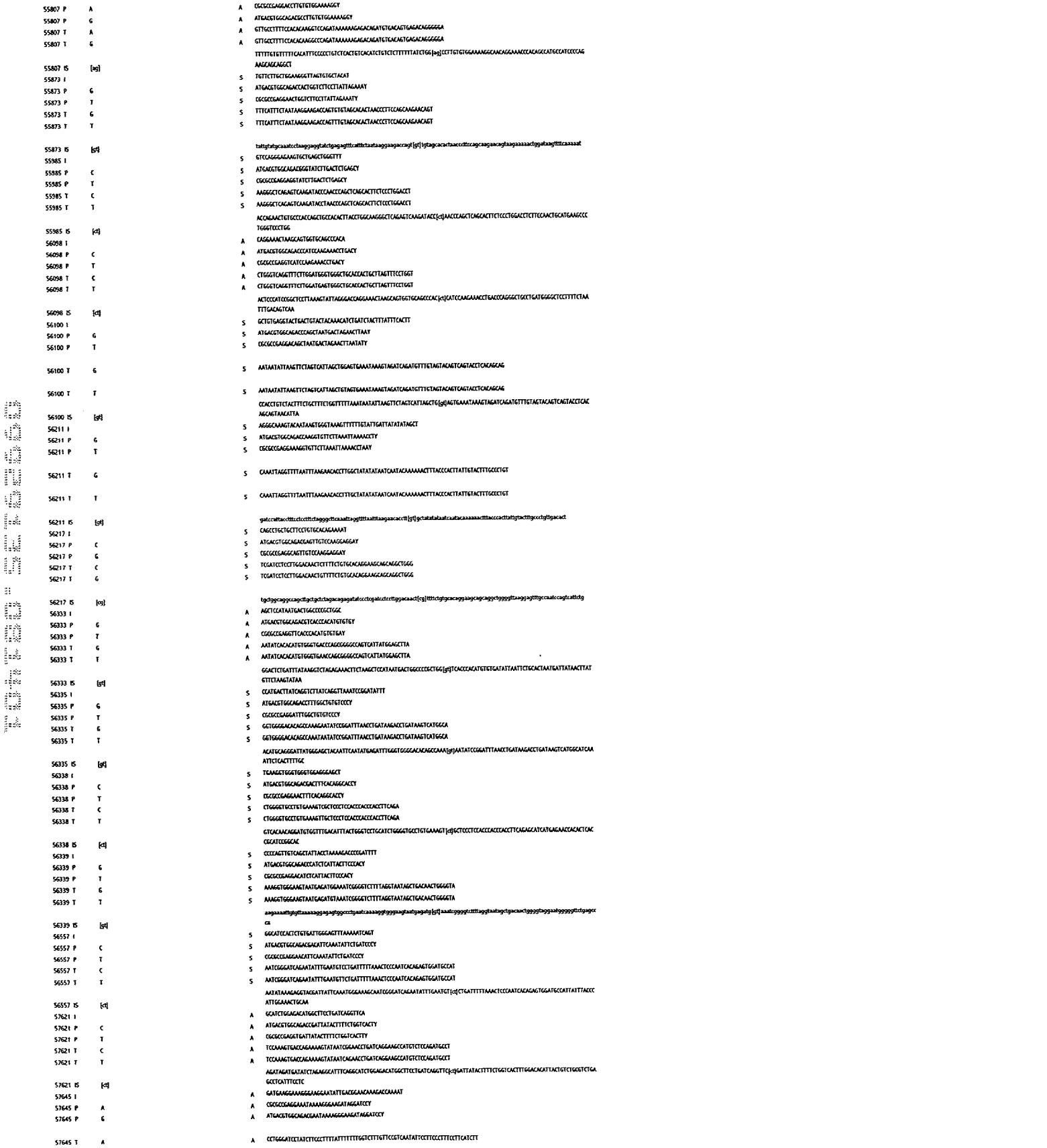
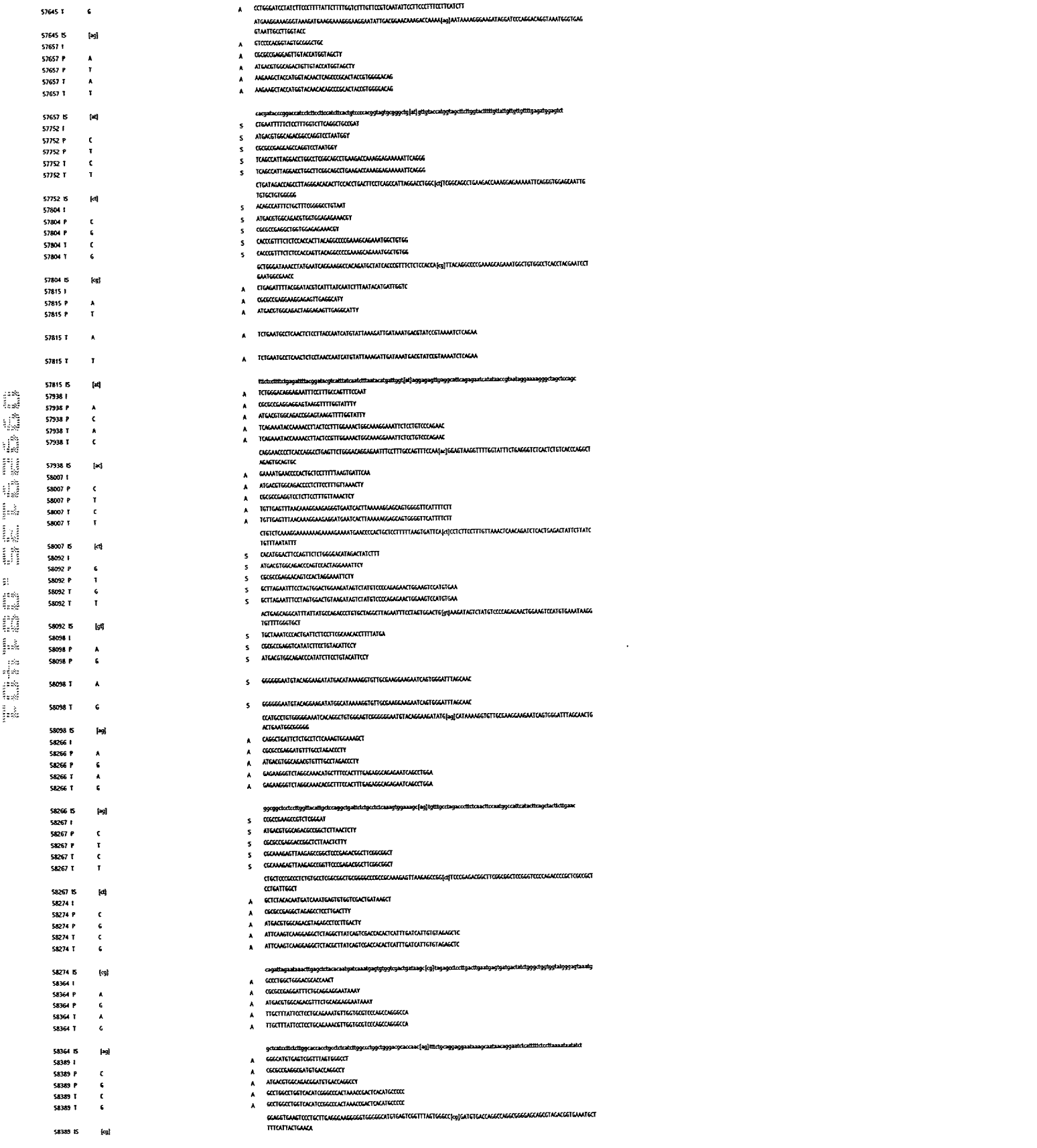


FIGURE 129C



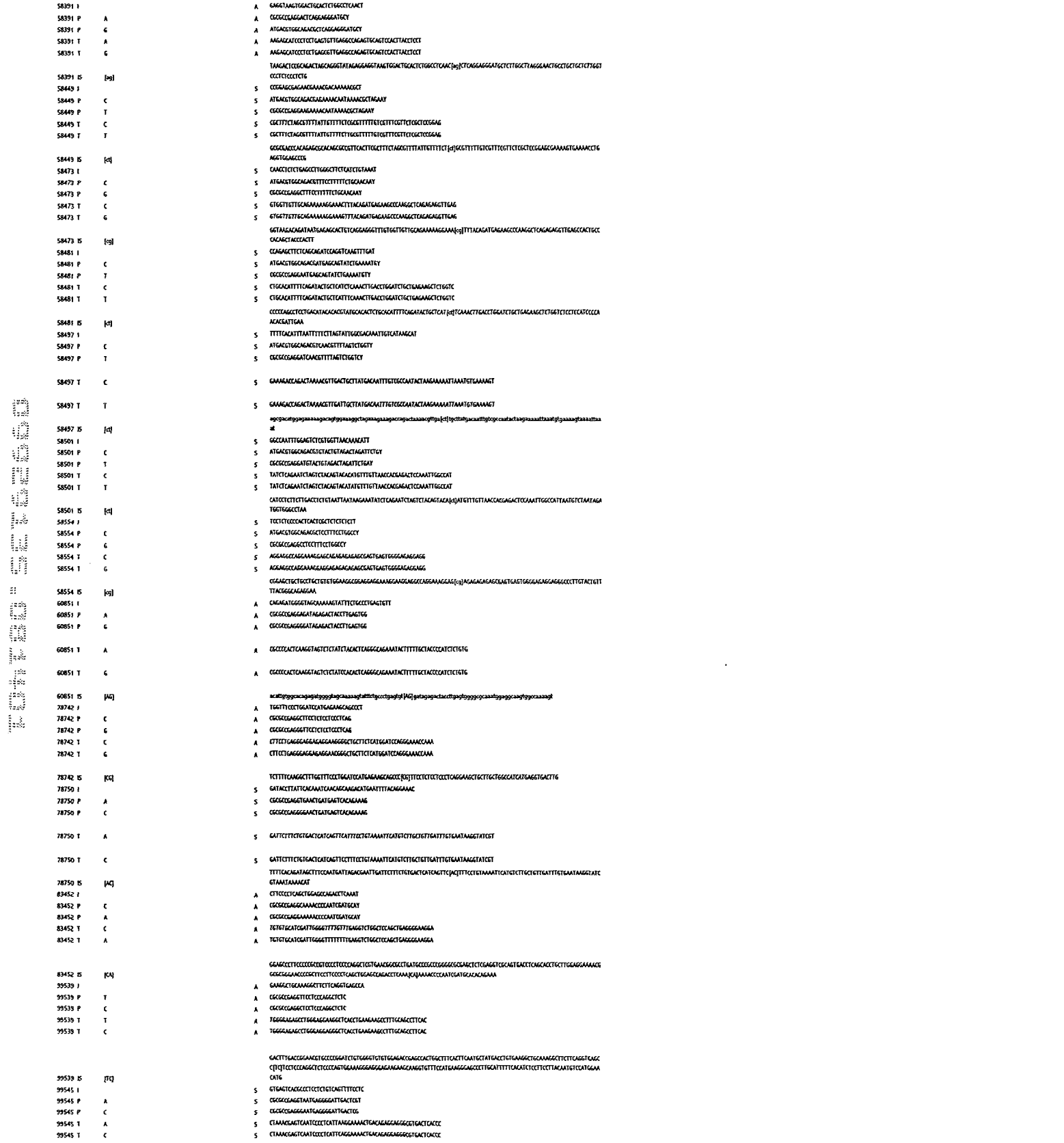
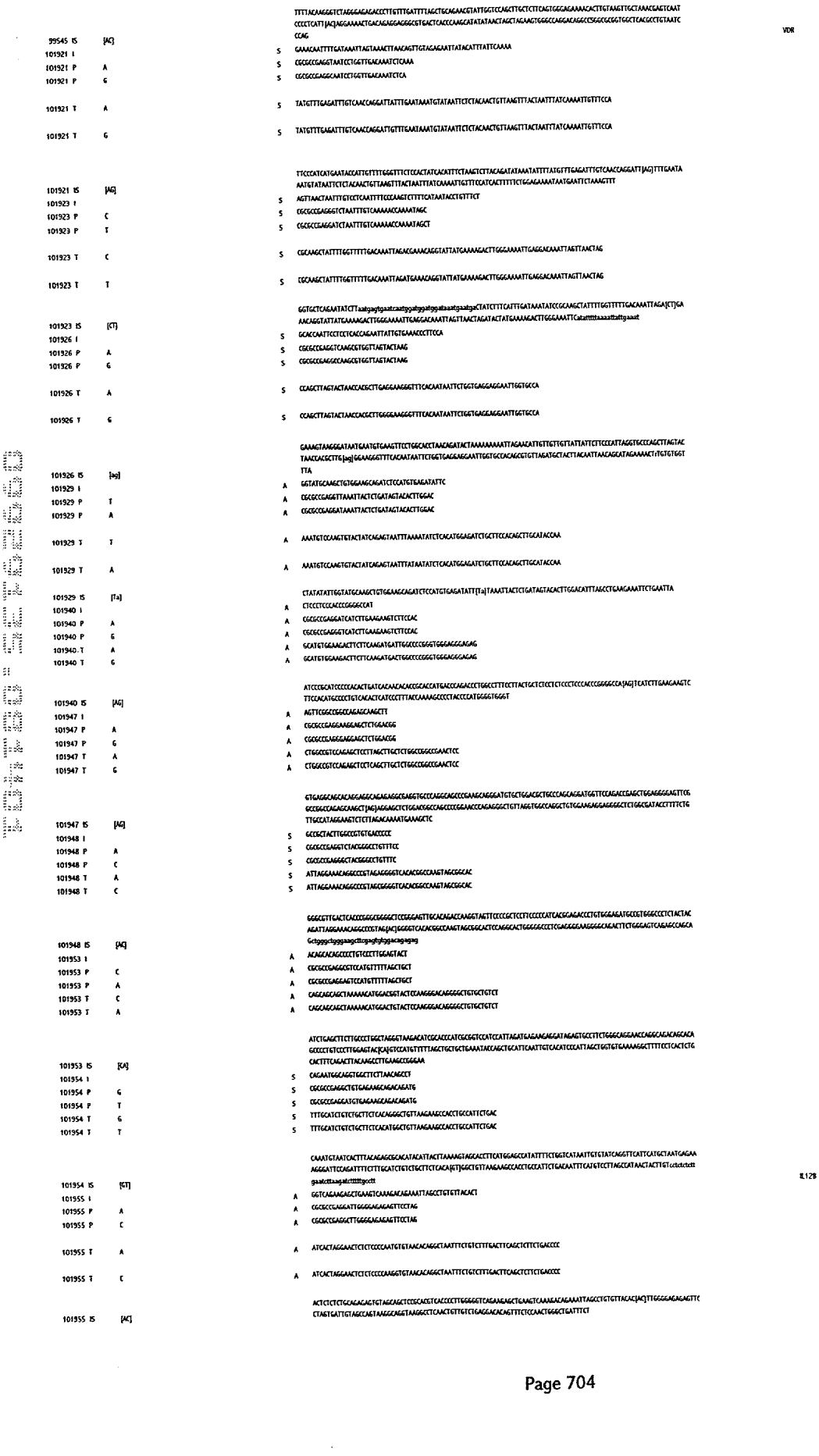
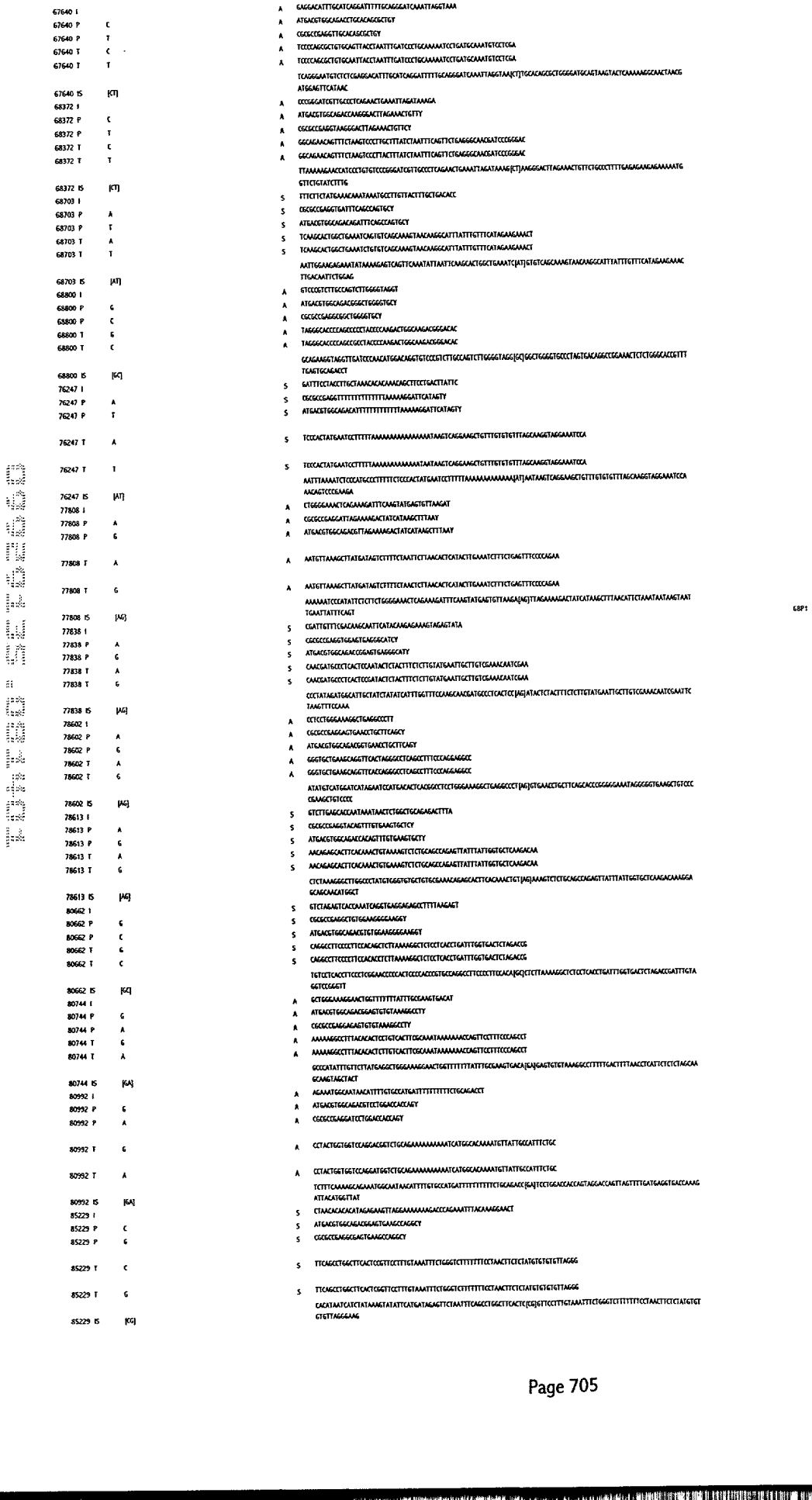


FIGURE 129C





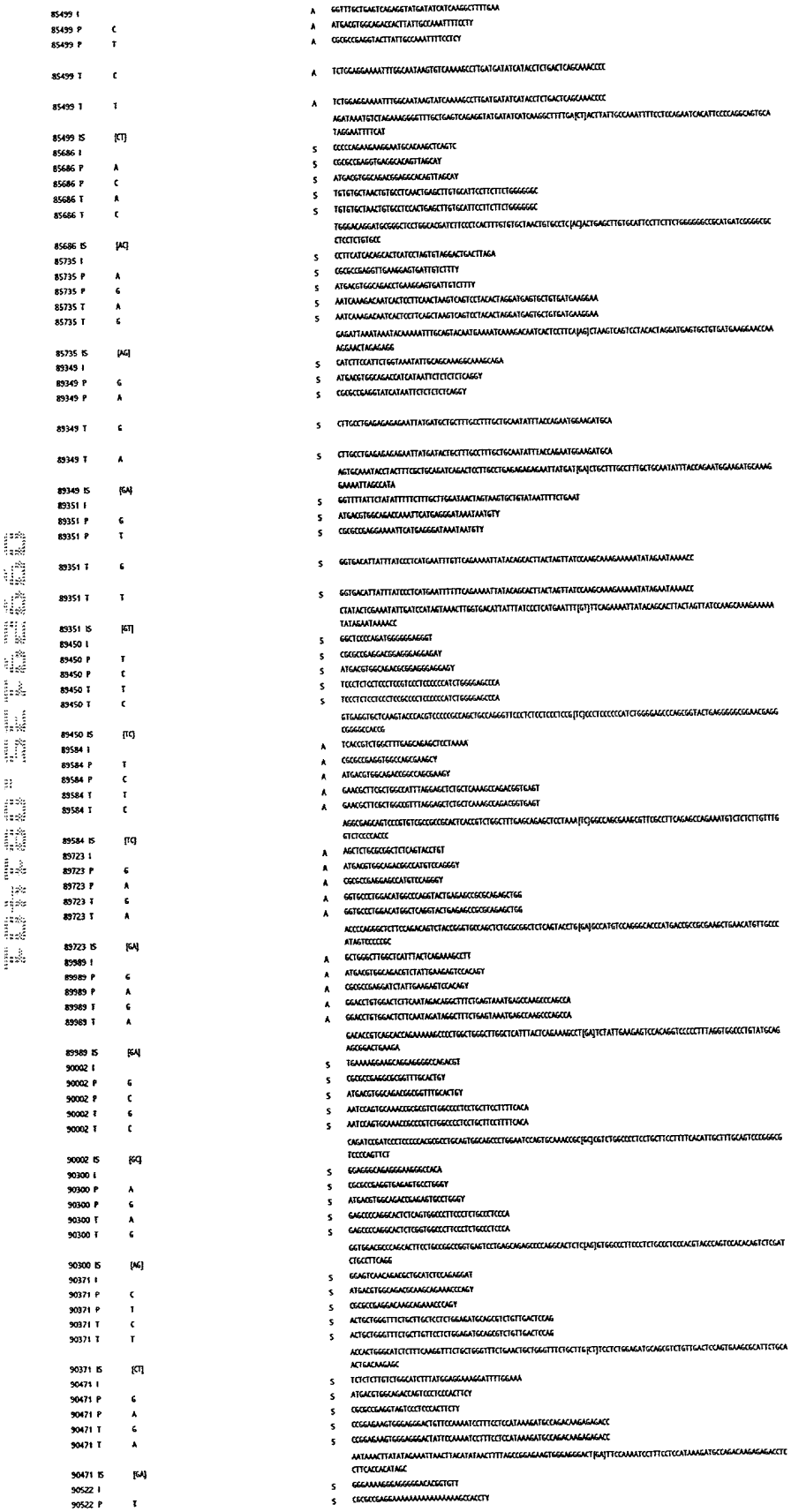

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85735 T G
85735 IS [AG]
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89349 T G
89349 T A
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90522 P T

FIGURE 129C

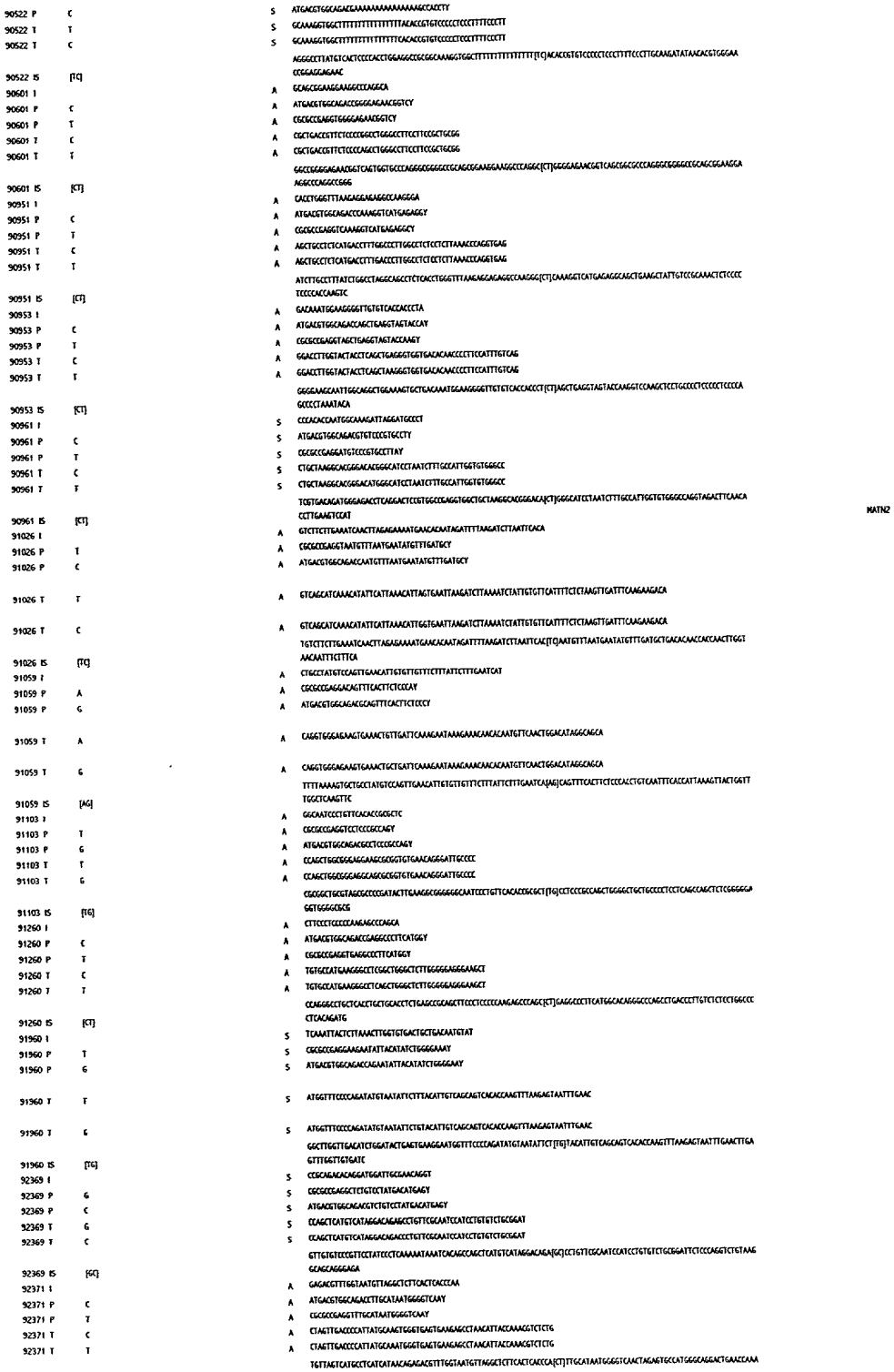


FIGURE 129C

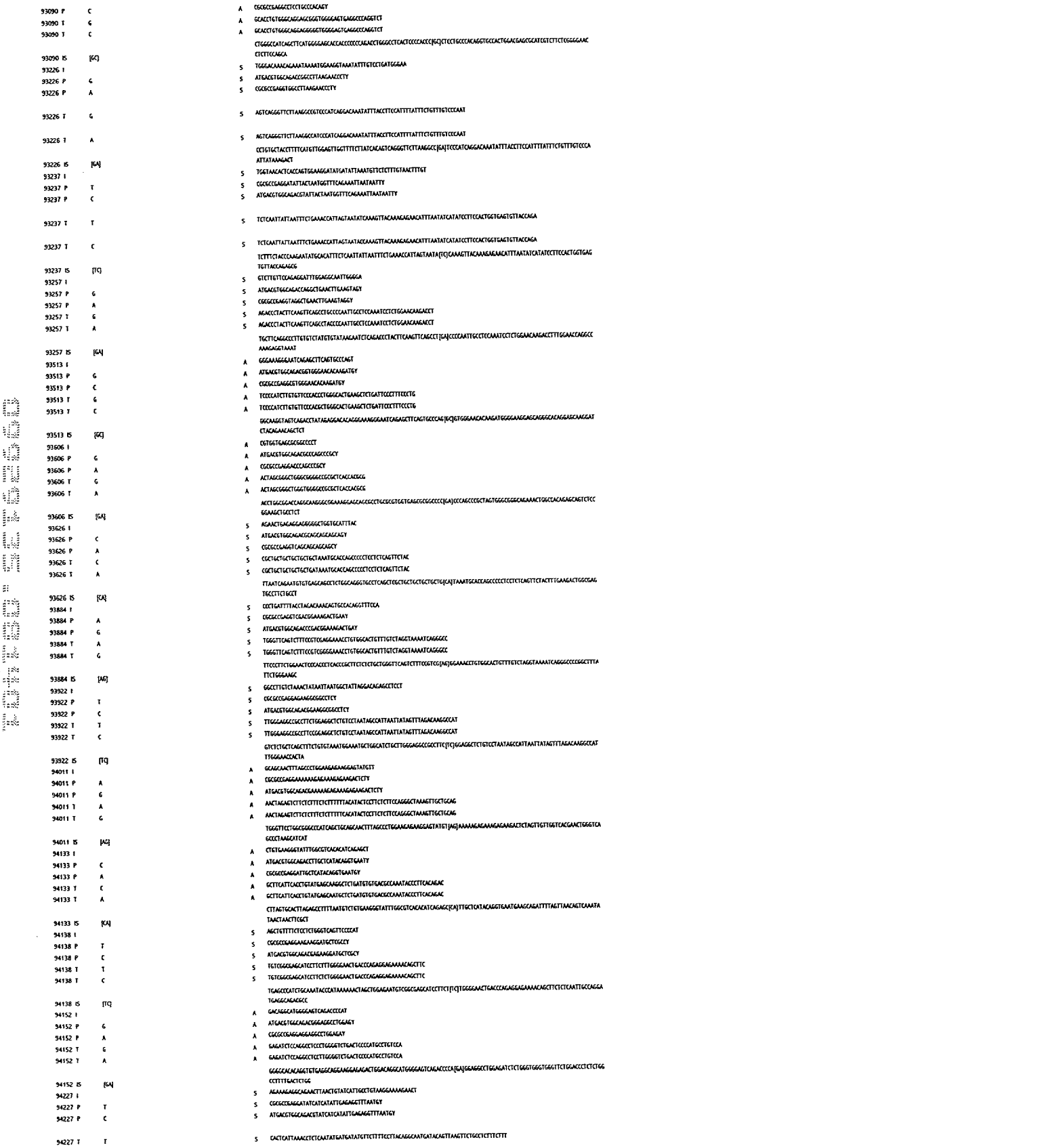


FIGURE 129C

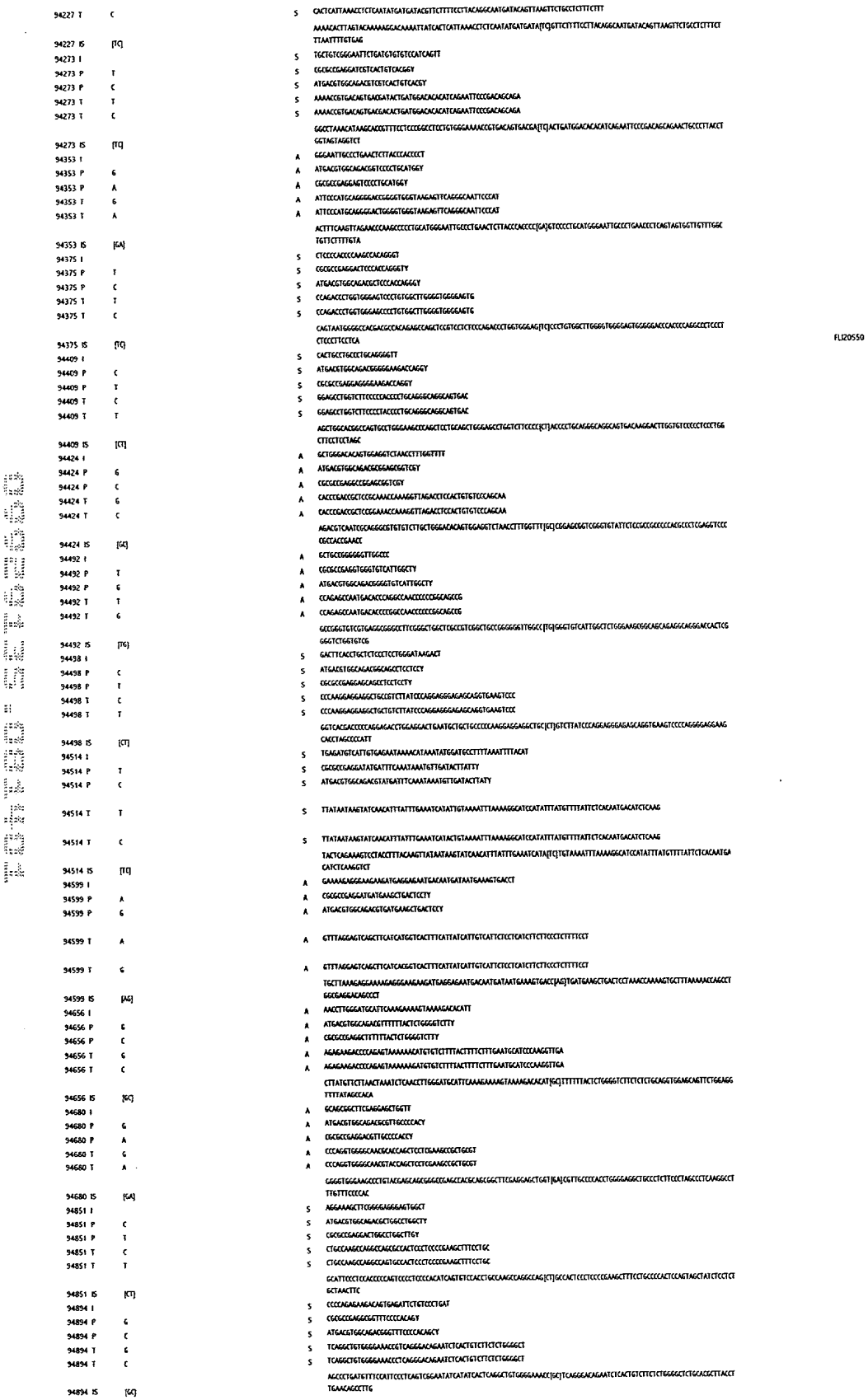
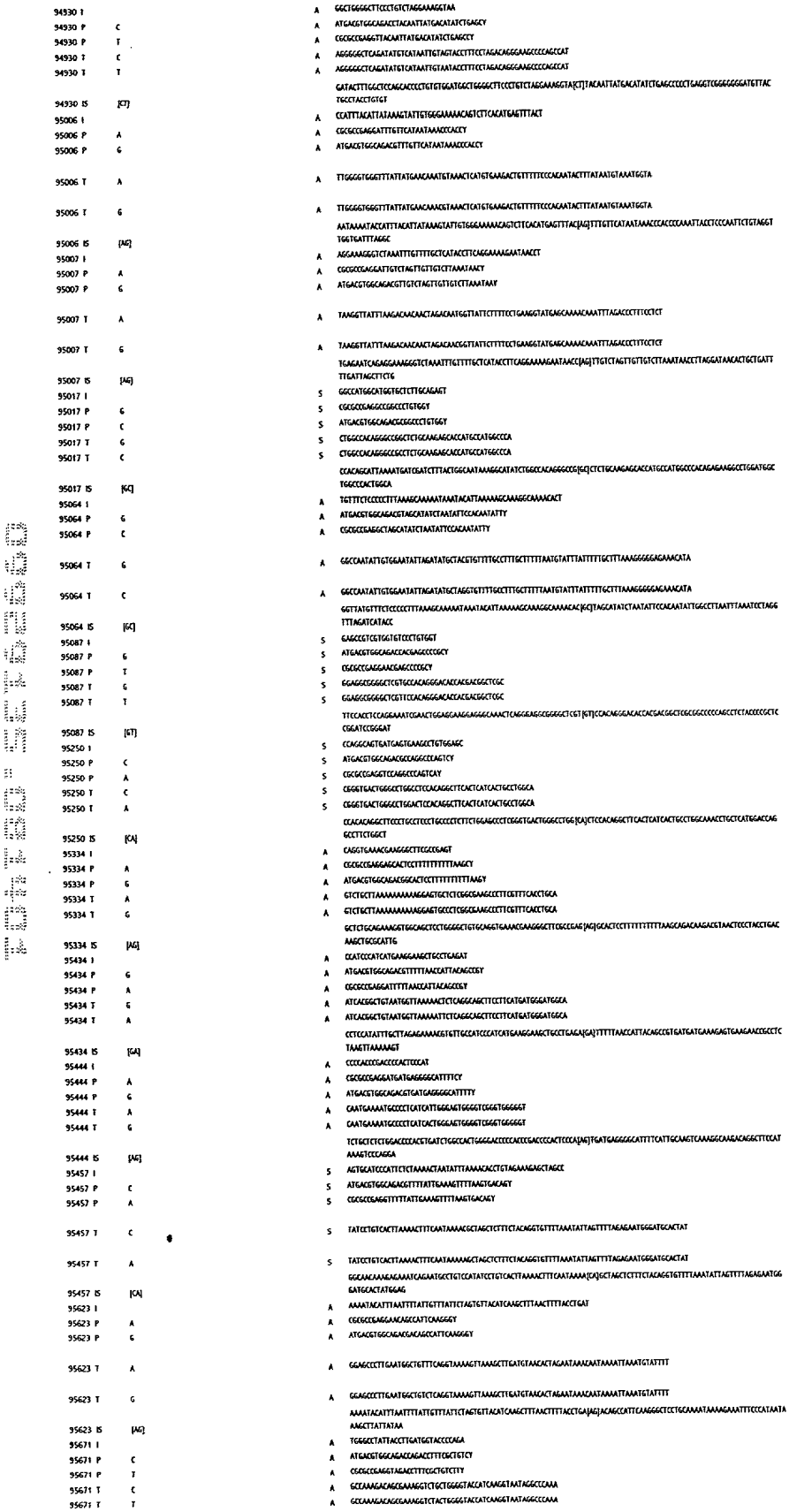


FIGURE 129C


94930 I A GGCTGGGGCTTCCCTGTCTAGGAAAGGTAA
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94930 P T A CGCGCCGAGGTTACAATTATGACATATCTGAGCCT
94930 T C A AGGGGGCTCAGATATGTCATAATTGTAGTACCTTTCCTAGACAGGGAAGCCCCAGCCAT
94930 T T A AGGGGGCTCAGATATGTCATAATTGTAATACCTTTCCTAGACAGGGAAGCCCCAGCCAT
94930 IS [CT] GATACTTTGGCTCCAGCACCCCTGTGTGGATGGCTGGGGCTTCCCTGTCTAGGAAAGGTA[CT]TACAATTATGACATATCTGAGCCCCCTGAGGTCGGGGGGGATGTTAC TGCCTACCTGTGT
95006 I A CCATTTACATTATAAAGTATTGTGGGAAAAACAGTCTTCACATGAGTTTACT
95006 P A A CGCGCCGAGGATTTGTTCATAATAAAOCCACCY
95006 P G A ATGACGTGGCAGACGTTTGTTCATAATAAAOCCACCY
95006 T A A TTGGGGTGGGTTTATTATGAACAAATGTAAACTCATGTGAAGACTGTTTTTCCCACAATACTTTATAATGTAAATGGTA
95006 T G A TTGGGGTGGGTTTATTATGAACAAACGTAAACTCATGTGAAGACTGTTTTTCCCACAATACTTTATAATGTAAATGGTA
95006 IS [AG] AATAAAATACATTTACATTATAAAGTATTGTGGGAAAAACAGTCTTCACATGAGTTTAC[AG]TTTGTTCATAATAAACCCACCCCAAATTACCTCCCAATTCTGTAGGT TGGTGATTTAGGC
95007 I A AGGAAAGGGTCTAAATTTGTTTTGCTCATACCTTCAGGAAAAGAATAACCT
95007 P A A CGCGCCGAGGATTGTCTAGTTGTTGTCTTAAATAACY
95007 P G A ATGACGTGGCAGACGTTGTCTAGTTGTTGTCTTAAATAAY
95007 T A A TAAGGTTATTTAAGACAACAACTAGACAATGGTTATTCTTTTCCTGAAGGTATGAGCAAAACAAATTTAGACCCTTTCCTCT
95007 T G A TAAGGTTATTTAAGACAACAACTAGACAACGGTTATTCTTTTCCTGAAGGTATGAGCAAAACAAATTTAGACCCTTTCCTCT
95007 IS [AG] TGAGAATCAGAGGAAAGGGTCTAAATTTGTTTTGCTCATACCTTCAGGAAAAGAATAACC[AG]TTGTCTAGTTGTTGTCTTAAATAACCTTAGGATAACACTGCTGATT TTGATTAGCTTCTG
95017 I S GGCCATGGCATGGTGCTCTTGCAGAGT
95017 P G S CGGCCCGAGGCCGGCCCTGTGGT
95017 P C S ATGACGTGGCAGACGCGGCCCTGTGGT
95017 T G S CTGGCCACAGGGCCGGCTCTGCAAGAGCACCATGCCATGGCCCA
95017 T C S CTGGCCACAGGGCCGCCTCTGCAAGAGCACCATGCCATGGCCCA
95017 IS [GC] CCACAGCATTAAAATGATGATCTTTACTGGCAATAAAGGCATATCTGGCCACAGGGCCG[GC]CTCTGCAAGAGCACCATGCCATGGCCACAGAGAAGGCCTGGATGGC TGGCCCACTGGCA
95064 I A TGTTTCTCCCCCTTTAAAGCAAAAATAAATACATTAAAAAGCAAAGGCAAAACACT
95064 P G A ATGACGTGGCAGACGTAGCATATCTAATATTCCACAATATTY
95064 P C A CGCGCCGAGGCTAGCATATCTAATATTCCACAATATTY
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95087 P G S ATGACGTGGCAGACCACGAGCCCCGCY
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95087 IS [GT] TTCCACCTCCAGGAAATCGAACTGGAGGAAGGAGGGCAAACTCAGGGAGGCGGGGCT CGT[GT]CCACAGGGACACCACGACGGCTCGCGGCCCCCCAGCCTCTACCCCGCTC CGGATCCGGGAT
95250 I S CCAGGCAGTGATGAGTGAAGCCTGTGGAGC
95250 P C S ATGACGTGGCAGACGCCAGGCCCAGTCY
95250 P A S CGCGCCGAGGTCCAGGCCCAGTCAY
95250 T C S CGGGTGACTGGGCCTGGCCTCCACAGGCTTCACTCATCACTGCCTGGCA
95250 T A S CGGGTGACTGGGCCTGGACTCCACAGGCTTCACTCATCACTGCCTGGCA
95250 IS [CA] CCACACAGGCTTCCCTGCCTCCCTGCCCCTCTTCTGGAGCCCTCGGGTGACTGGGCCTGG[CA]CTCCACAGGCTTCACTCATCACTGCCTGGCAAACCTGCTCATGGACCAG GCCTTCTGGCT
95334 I A CAGGTGAAACGAAGGGCTTCGCCGAGT
95334 P A A CGCGCCGAGGAGCACTCCTTTTTTTTTAAGCY
95334 P G A ATGACGTGGCAGACGGCACTCCTTTTTTTTTAAGY
95334 T A A GTCTGCTTAAAAAAAAAAGGAGTGCCTCGGCGAAGCCCTTCGTTTCACCTGCA
95334 T G A GTCTGCTTAAAAAAAAAAGGAGTGCCTCGGCGAAGCCCTTCGTTTCACCTGCA
95334 IS [AG] GCTCTGCAGAAAGGTGGCAGCTCCTGGGGCTGTGCAGGTGAAACGAAGGGCTTCGCCGAG[AG]GCACTCCTTTTTTTTTAAGCAGACAAGACGTAACTCCCTACCTGAC AAGCTGCGCATTG
95434 I A CCATCCCATCATGAAGGAAGCTGCCTGAGAT
95434 P G A ATGACGTGGCAGACGTTTTTAACCATTACAGCCGY
95434 P A A CGCGCCGAGGATTTTTAACCATTACAGCCGY
95434 T G A ATCACGGCTGTAATGGTTAAAAACTCTCAGGCAGCTTCCTTCATGATGGGATGGCA
95434 T A A ATCACGGCTGTAATGGTTAAAAATTCTCAGGCAGCTTCCTTCATGATGGGATGGCA
95434 IS [GA] CCTCCATATTTGCTTAGAGAAAACGTGTTGCCATCCCATCATGAAGGAAGCTGCCTGAGA[GA]TTTTAACCATTACAGCCGTGATGATGAAAGAGTGAAGAACCGCCTC TAAGTTAAAAAGT
95444 I A CCCCACCCGACCCCACTCCCAT
95444 P A A CGCGCCGAGGATGATGAGGGGCATTTTCY
95444 P G A ATGACGTGGCAGACGTGATGAGGGGCATTTTY
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95623 I A AAAATACATTTAATTTTATTGTTTATTCTAGTGTTACATCAAGCTTTAACTTTTACCTGAT
95623 P A A CGCGCCGAGGAACAGCCATTCAAGGGY
95623 P G A ATGACGTGGCAGACGACAGCCATTCAAGGGY
95623 T A A GGAGCCCTTGAATGGCTGTTTCAGGTAAAAGTTAAAGCTTGATGTAACACTAGAATAAACAATAAAATTAAATGTATTTT
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95671 I A TGGGCCTATTACCTTGATGGTACCCCAGA
95671 P C A ATGACGTGGCAGACCAGACCTTTCGCTGTCY
95671 P T A CGCGCCGAGGTAGACCTTTCGCTGTCTTY
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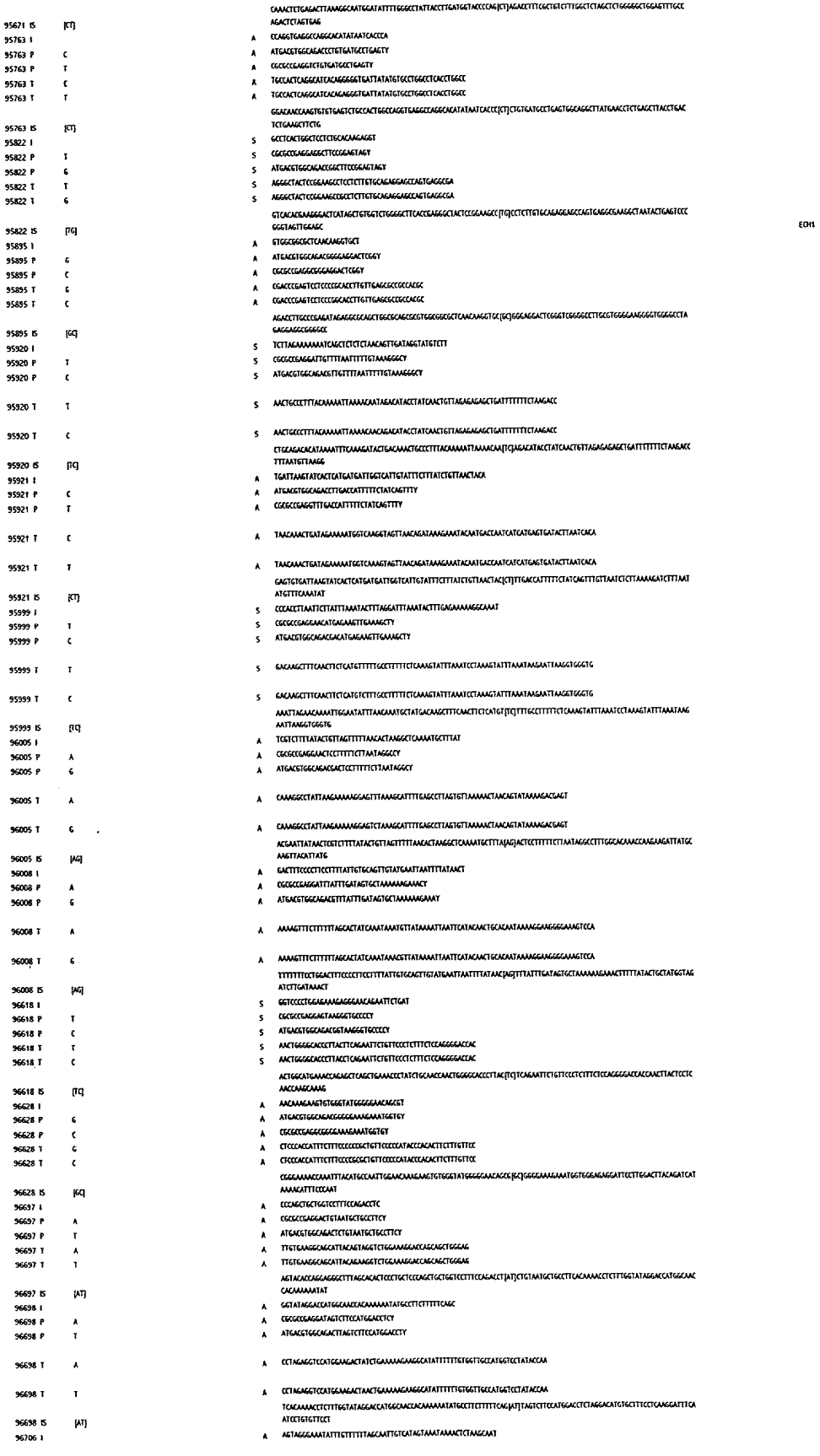


FIGURE 129C

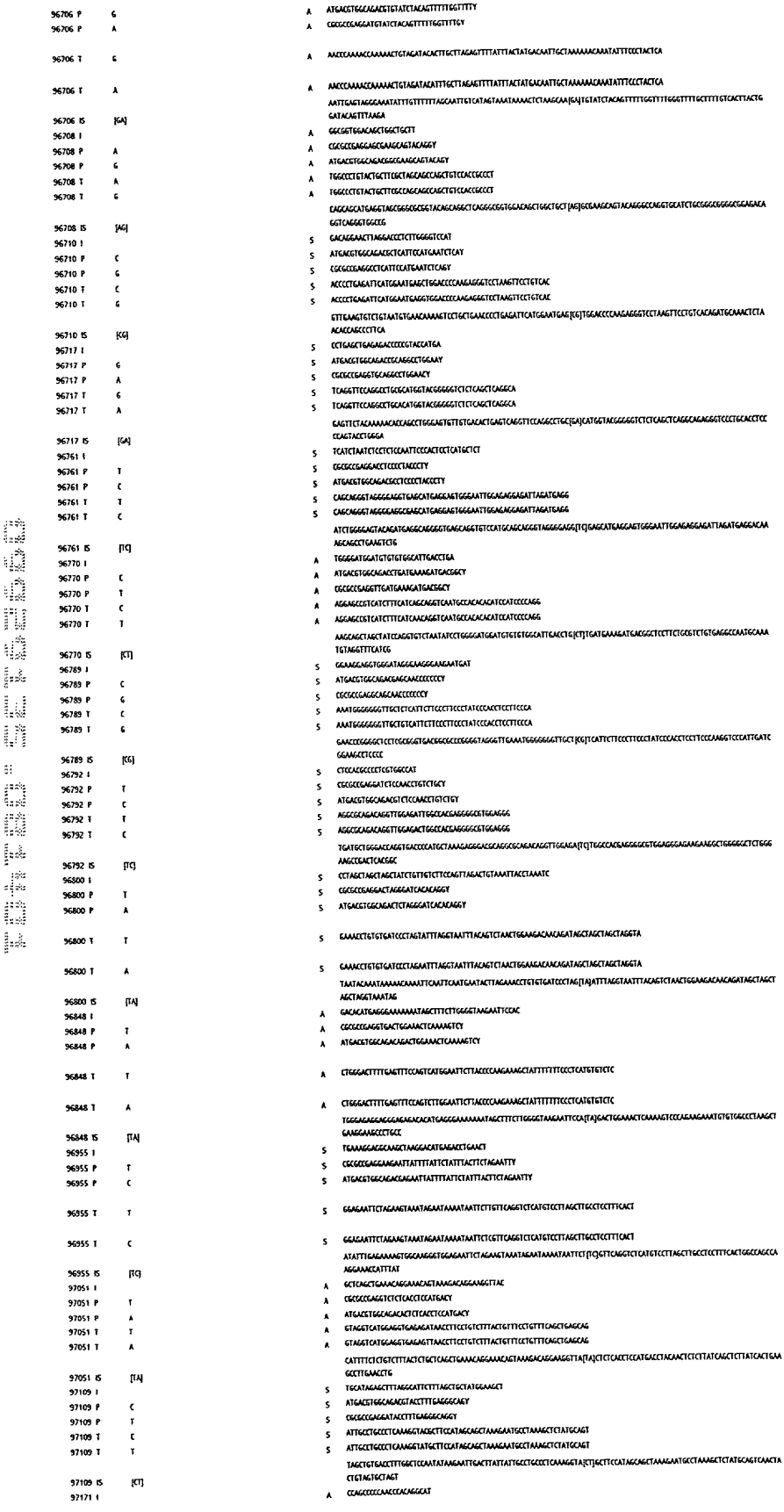


FIGURE 129C

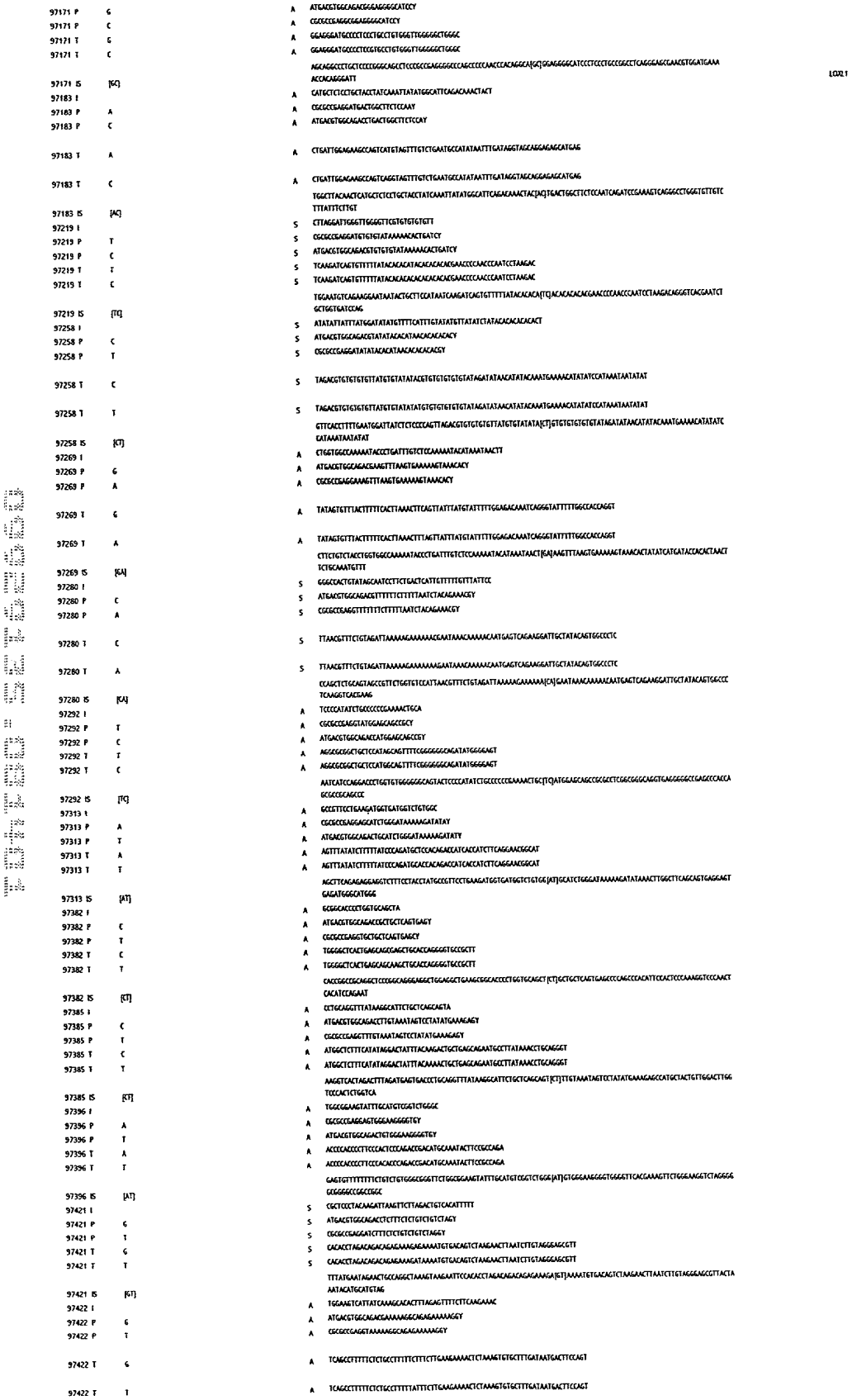


FIGURE 129C

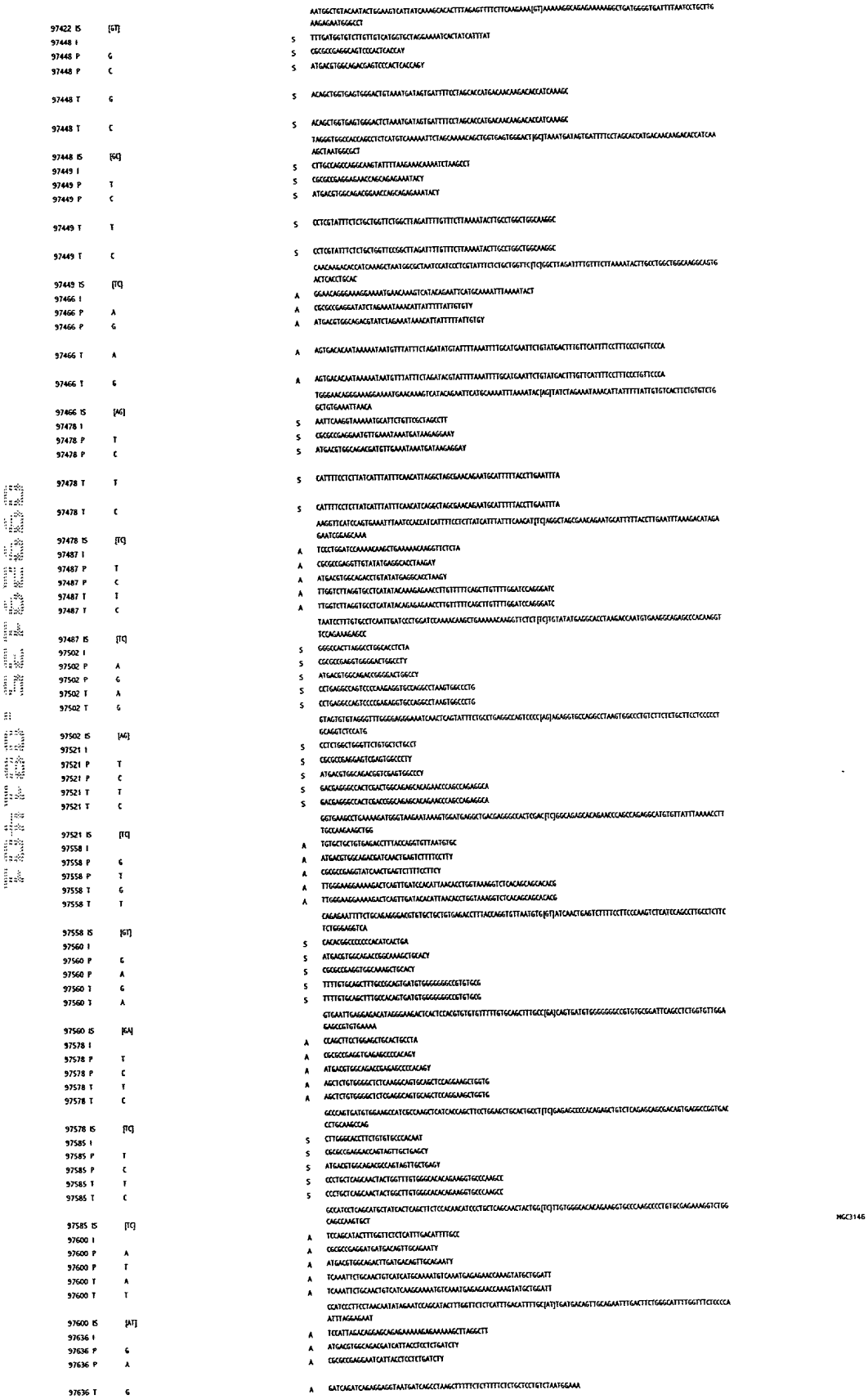


FIGURE 129C

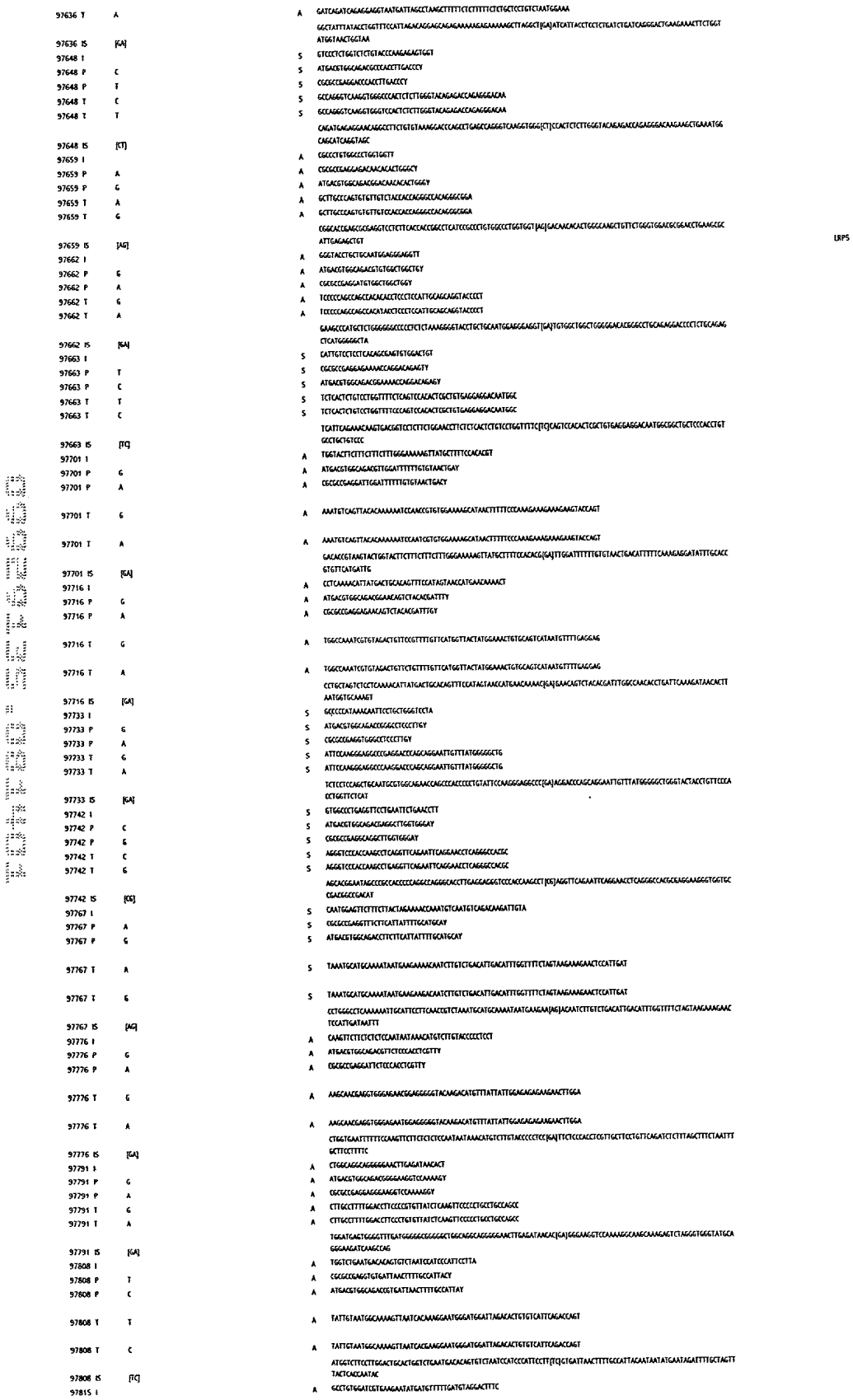


FIGURE 129C

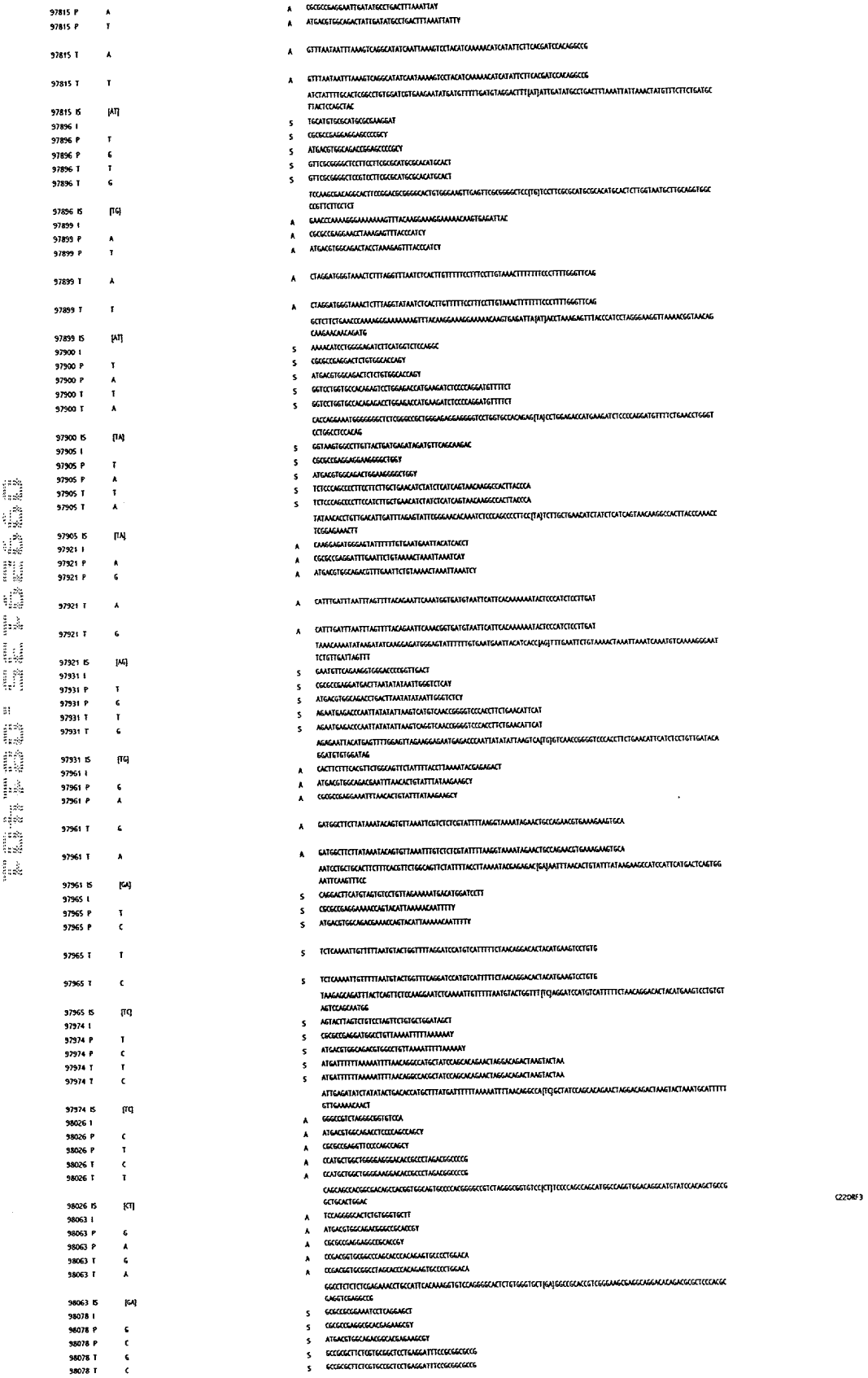


FIGURE 129C

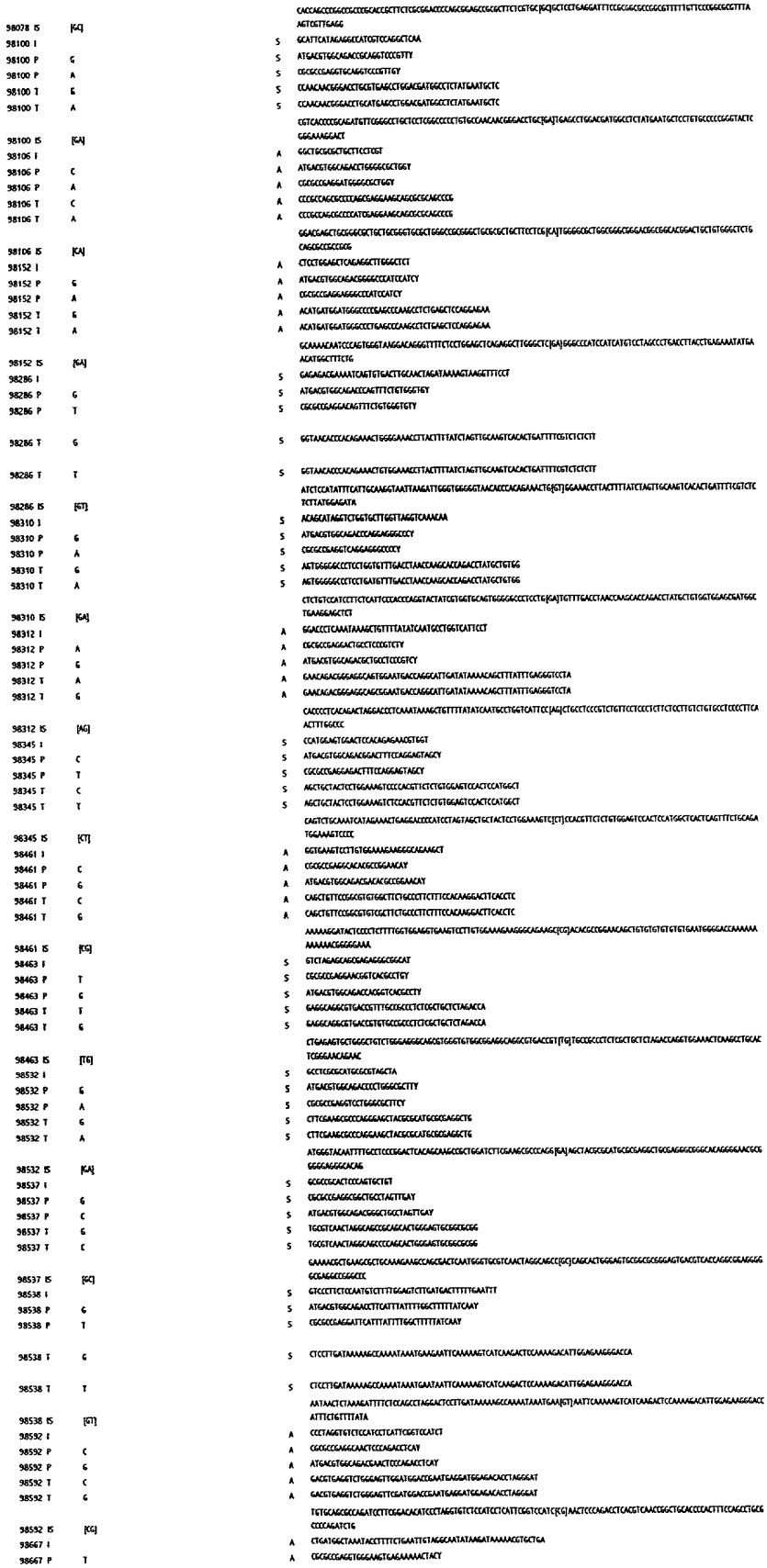
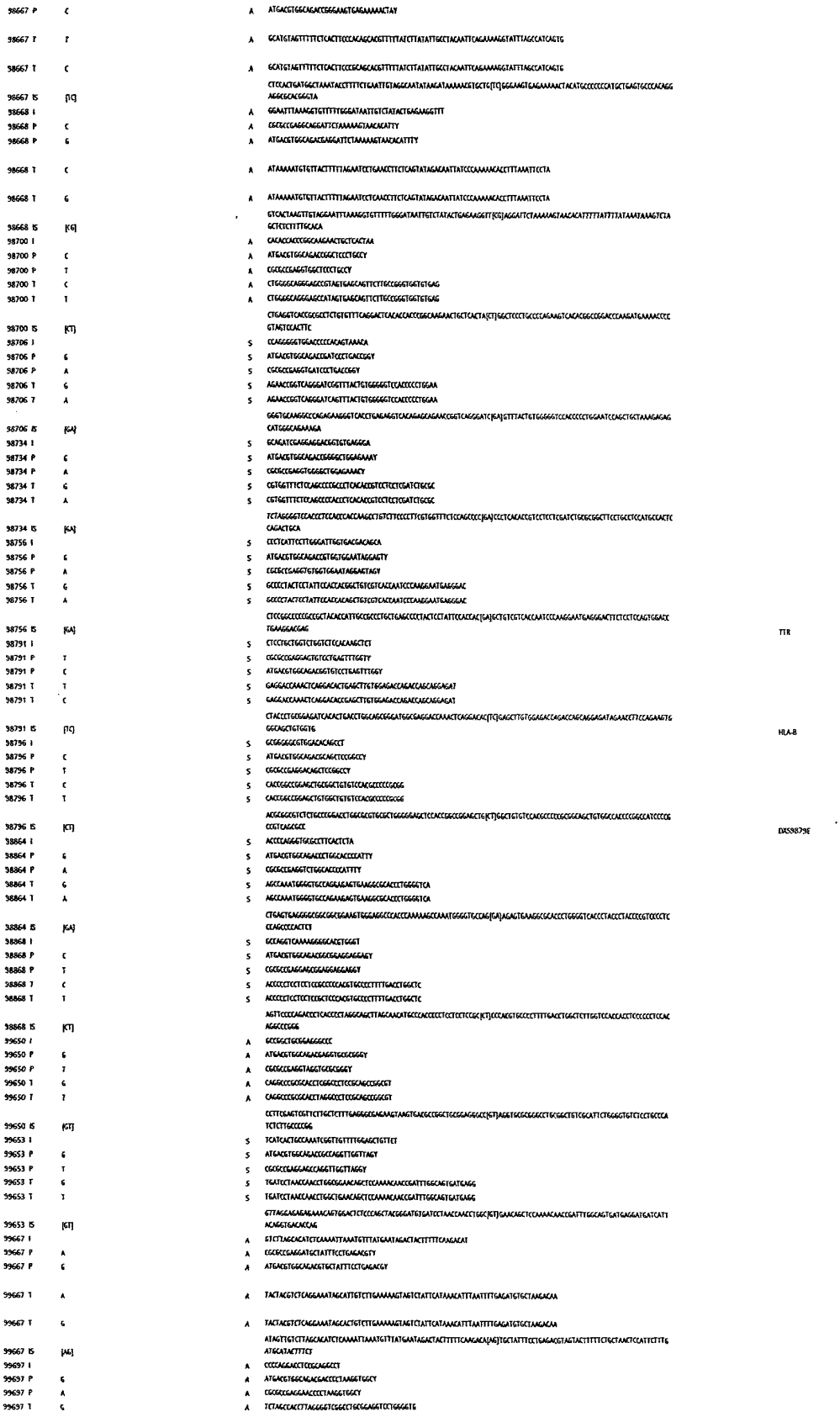


FIGURE 129C

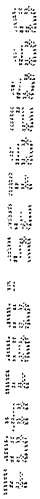


TTR

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DXS9879E





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100067	P	C	A	ATGACGTGGCAGACCCTCCCTTTGTGCCTY	
100067	T	A	A	TAAAAAGGCACAAAGGGAGTAATCAATACTTTTCTTTGAAGCACTTAATTTCATAAAATATGAGATCCTTACATGAGAA	
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100084	P	G	S	ATGACGTGGCWGACCGTGGAGTTCACCCAT	
100084	P	T	S	CGCSCCGAGGWGTGGAGTTCACCCWGY	
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100099	I		S	GGGAGATCTGTTTGCWCWAAATTCTTCGCWAAATCTGATGATCTT	
100099	P	C	S	ATGACGTGGCWGACGAWGATTCTTCCTCCWGY	
100099	P	T	S	CGCGCCGAGGWAAGATTCTTCCTCCWGAY	
100099	T	C	S	GAAGTCGTGGAGGAWGAATCTTCWGATCATCWGATTTTGCGWAWAATTTTGTGCWAACWGATCTCCCTT	
100099	T	T	S	GAAGTCGTGGAGGAWGAATCTTTWGATCATCWGATTTTGCWAWAATTTTGTGCWAACWGATCTCCCTT	
100099	IS	[CT]		TTCCTATCWGGTGGTGTTAWCWGCWGWGGTGTCTGGWGGWAGTGTGGWGGWAWCWATCTT[CT]WGATCATCWGATTTTGCWAWAATTTTGTGCWAWCWGATCTCCCTT TTCATCCTCTCWCT	
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100109	T	T	S	ATTTCWTGWAGCTTTCTCGGTWTGTWATTTGWWAGWCWCWTWTGWWGGWCTWTWGTCWTWWWWTGTCWTCCWT	
100109	T	A	S	ATTTCWTGWAGCTTTCTCGGTWWGTWATTTGWWAGWCWCWTWTGWWGGWCTWTWGTCWTWWWWTGTCWTCCWT	
100109	IS	[TA]		AWGCWGWATTGWCCWTGWTGWTWTGWTCTTTCWATTTCWTGWWGCTTTCTCGGTA[TA]GTWTTTGWWWCWCWTWTGWWGGWCTWTWGTCWTWWWWTG TCWTCCWTWTTGTG	
100129	I		A	CTTTCWTCCWGCWCCCCWCTTGGTGCA	
100129	P	C	A	ATGACGTGGCWGACGCGTCCTCTTCTGTTTCY	
100129	P	T	A	CGCGCCGAGGTGTCCTCTTCCTGTTTCAY	
100129	T	C	A	ATCCTGWWACWGWWGWGWCWCGWCCWWGTTGGGGGTGCTGGWTGWWWWG	
100129	T	T	A	ATCCTGWWACWGWWGWGWCWGWCCWWGTTGGGGGTGCTGGWTGWWWWG	
100129	IS	[CT]		TTTWCWTGGWWCTCWCWGWTCWCCCTCGTCTCTTTCWTCCWGCWCCCCCWCTTGGTGC[CT]GTCCTCTTCCTGTTTCWGGWTGWWGGWTGTGTGWGGGGCTGGCWCTWGG AGGCWGGWATCT	MRIP 1
100152	I		A	CTTGGCTTCTTCWTCTTWGCWCWATCCTWCCWTGWCWATT	
100152	P	G	A	ATGACGTGGCWGACGGWWGWWATTTTWWWWTWTWGTTCTWGWWWTTY	
100152	P	A	A	CGCGCCGAGGWGWWGWWTTTWWWWTWTWGTTCTWGWWWTTY	
100152	T	G	A	TGWGWWWTTCTWGWWCTWTWTTTWWWWTTCTTCCWTGTCCWTGGTWGGWTTGTGCTWWGWTGWWGWWGCCWWGTT	
100152	T	A	A	TGWGWWWTTCTWGWWCTWTWTTTWWWWTTCTTCWTGTCCWTGGTWGGWTTGTGCTWWGWTGWWGWWGCCWWGTT	
100152	IS	[GA]		GCTGGGWTGGCCTCTCTGWWCTTGGWCTTCTTCWTCTTWGWCWWTCCTWCCWTGWCWT[GA]GWWGWWTTTWWWWTWTWGTTCTWGWWWTTCTCWGCWCWGTWTGTG GCWTGWWCWCWWT	
100167	I		S	GWWCCWCWGGWTGCTCWGTWWGWCTWTGWWTWCWWGWT	
100167	P	C	S	ATGACGTGGCWGACGWWGWWWCWWWWTGWGWTGWWGWY	
100167	P	T	S	CGCGCCGAGGWWWGWWWCWWWWTGWGWTGWWGWY	
100167	T	C	S	ACTCTCTTCWTCTWTTTWTGTTTCTTCTTGTTWTTCWTWGTCCTTWCTWGWGWTCCGTGGCTCCCT	
100167	T	T	S	ACTCTCTTCWTCTWTTTWTGTTTCTTTTCTTGTTWTTCWTWGTCCTTWCTWGWGWTCCGTGGCTCCCT	
100167	IS	[CT]		ATCWWATTCTGTTTTTCWGWWTGCCWGCTCTTWWCTCTCTTCWTCTCWTTTTTGTTTCTT[CT]TCTTGTTWTTCWTWGTCCTTWCTWGWGWTCCGTGGCTCCCTTTTCTCTC CWWGWCWC	
100182	I		A	CWCWCCTCTGTCTCWTCWGCWGWGGCW	
100182	P	T	A	CGCGCCGWGGTTCTTGCTGCTGTTGGY	
100182	P	C	A	ATGWCGTGGCWGWCCTCTTGCTGCTGTTGGY	
100182	T	T	A	CTTTCCWWCWGCWGCWWGWWGCCCTGCCTGWTGWGWCWCWWGGTGGTGGW	
100182	T	C	A	CTTTCCWWCWGCWGCWWGWWGCCCTGCCTGWTGWGWCWCWWGGTGGTGGW	
100182	IS	[TC]		ACWTWCCTWCWTCWCCTCTGCCWCWGTTTCTTCCWCWCCTCTGTCTCWTCWGCWGWGC[TC]TCTTGCTGCTGTTGWWWWGWWWGTWGGTTCWGWGGGTCWGGWWT WWGGCCWGCTTC	
100185	I		S	GGTGCGCTTCCTGCWCTCCTGWWCT	
100185	P	G	S	CGCGCCGWGGCWWCCTCCWGCTGCY	
100185	P	C	S	ATGWCGTGGCWGWCWWCCTCCWGCTGCY	
100185	T	G	S	GTCTGCWGCCGWGGTTGCTCWGWGTGCWGGWWGCWCWCWG	
100185	T	C	S	GTCTGCWGCCGWGGTTGCTCCWGWGTGCWGGWWGCWCWCWG	
100185	IS	[GC]		GWWGWTCTGGWWGTWCTTCTGCGCCWWCTGCWCWGGGGGCWGTGTCTGCWGCCGWGWGTT[GC]GTCWGGWGTGCWGGWWGCWCWCWGTGCTTGWWGTGTWCWGGC CCWGCGGTCWTC	NDST1
100189	I		A	GCGGGTTGCCGWWTCCGTGWWCT	
100189	P	A	A	CGCGCCGWWGWWTGWWTGCTGTTCWCY	
100189	P	G	A	ATGWCGTGGCWGWCWWTGWWTGCTGTTCWCY	
100189	T	A	A	GGTTGTGWWCWGCWTCCWTTCTCWCWGWWTTCGGGCWWCCGCCT	
100189	T	G	A	GGTTGTGWWCWGCWTCCWTCCTCWCWGWWTTCGGGCWWCCGCCT	
100189	IS	[AG]		CCCTCWCGCGGGGCWGTTGWWCWCWCTCWGGGCCWGWGCGWGTTGCCGGWWTCCGTGWWG[AG]WTGWWTGCTGGTTCWWWCCGTCWGGWWGCCCTGTGTGWWGWCCCTGCG GCWWCTCCCTWWG	
100194	I		S	GWTWCWCWGWWTCTCCTGWCWCCTCTGCW	
100194	P	G	S	ATGWCGTGGCWGWCCGTCCWTGTCCTGCY	
100194	P	A	S	CGCGCCGWGGTGTCCWTGTCCTGCY	
100194	T	G	S	WGWWGCWGGWCWTGWGWCWGCWGWGTGCCWGWGWTCCTGTGTWCCCT	
100194	T	A	S	WGWWGCWGGWCWTGWGWCWGCWGWGTGCCWGWGWTCCTGTGTWCCCT	
100194	IS	[GA]		GWCCTGTCCCWTCCCCWTCCCWCTCCWGCCWGWGCTGTCCCWCWGWWCWGWCWCWTGGWCWGTGWGCWGTGGGCWGTGGGCW GCTGGGTGTCTGG	
100198	I		A	CCWCWTGWWGCWGCCTGGGWGCTGCT	
100198	P	G	A	ATGWCGTGGCWGWCWGWWGWTGWWCCWGCY	
100198	P	A	A	CGCSCCGWGGWGWWGWTGWWCCWGCTY	
100198	T	G	A	TCTGWCTGGCTTCWTCTTCCWCWGCTCCCWGGCTGCTTCWTGTGGWA	
100198	T	A	A	TCTGWCTGGCTTCWTCTTCTGCWGCTCCCWGGCTGCTTCWTGTGGWA	

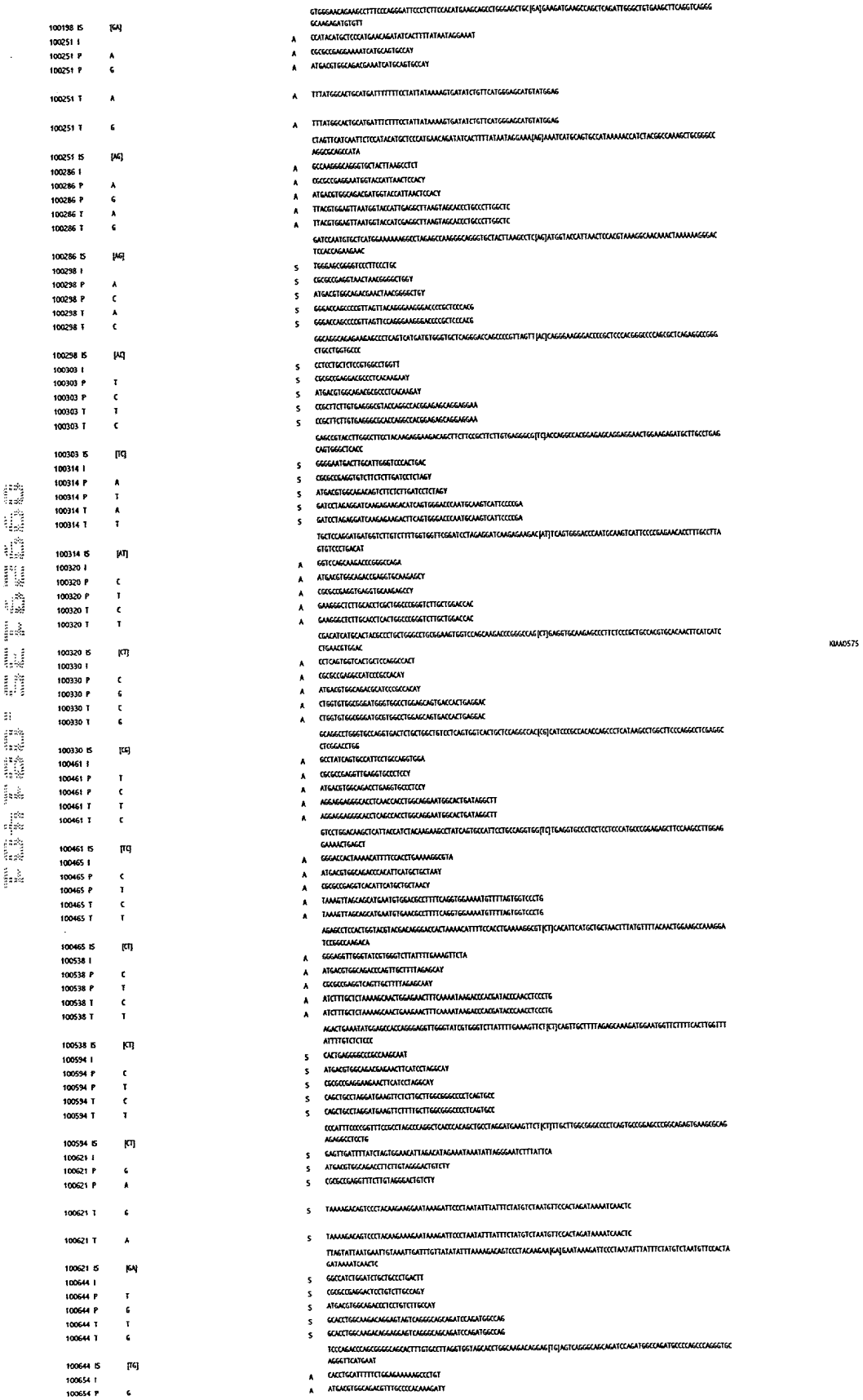


FIGURE 129C

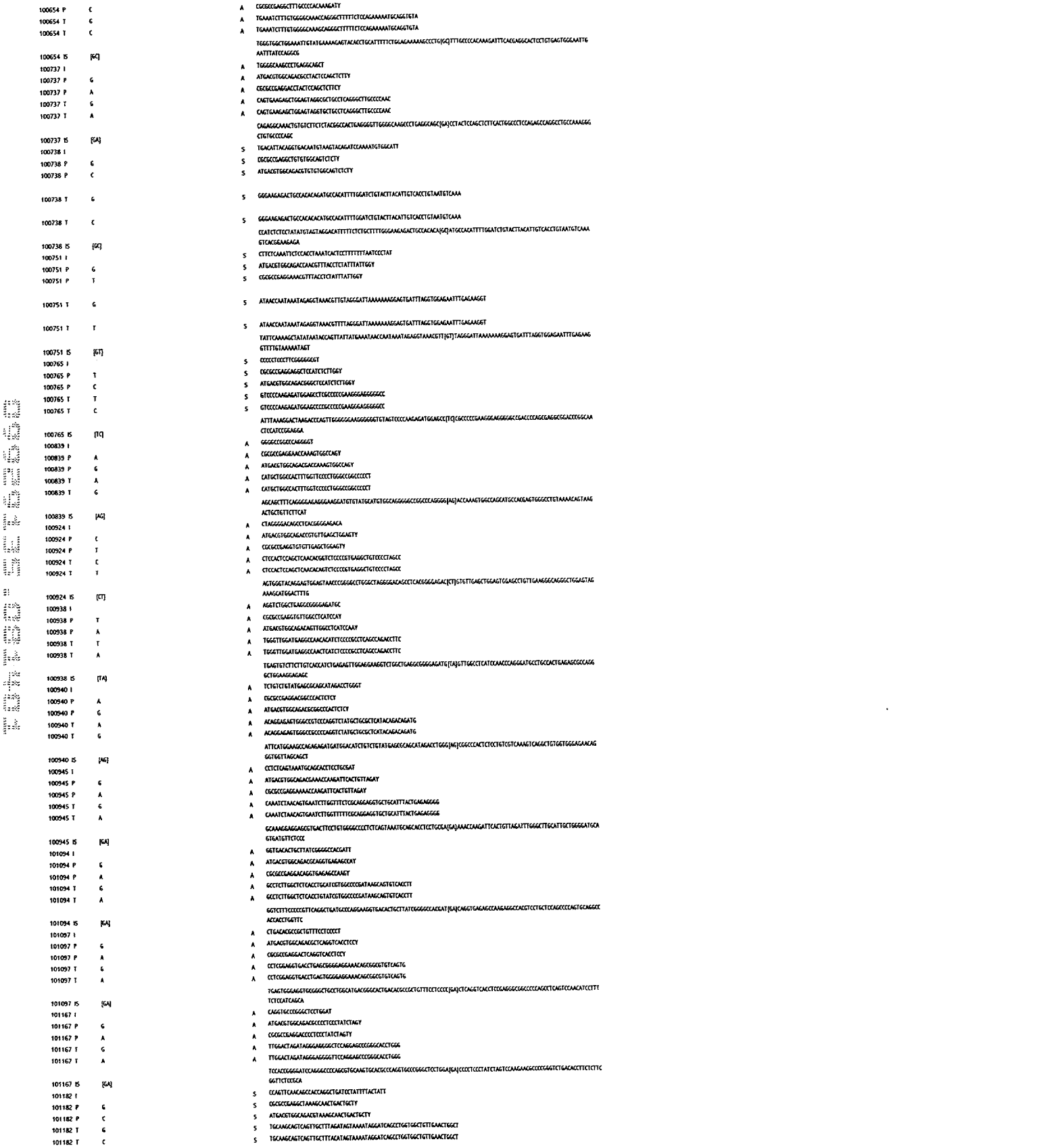
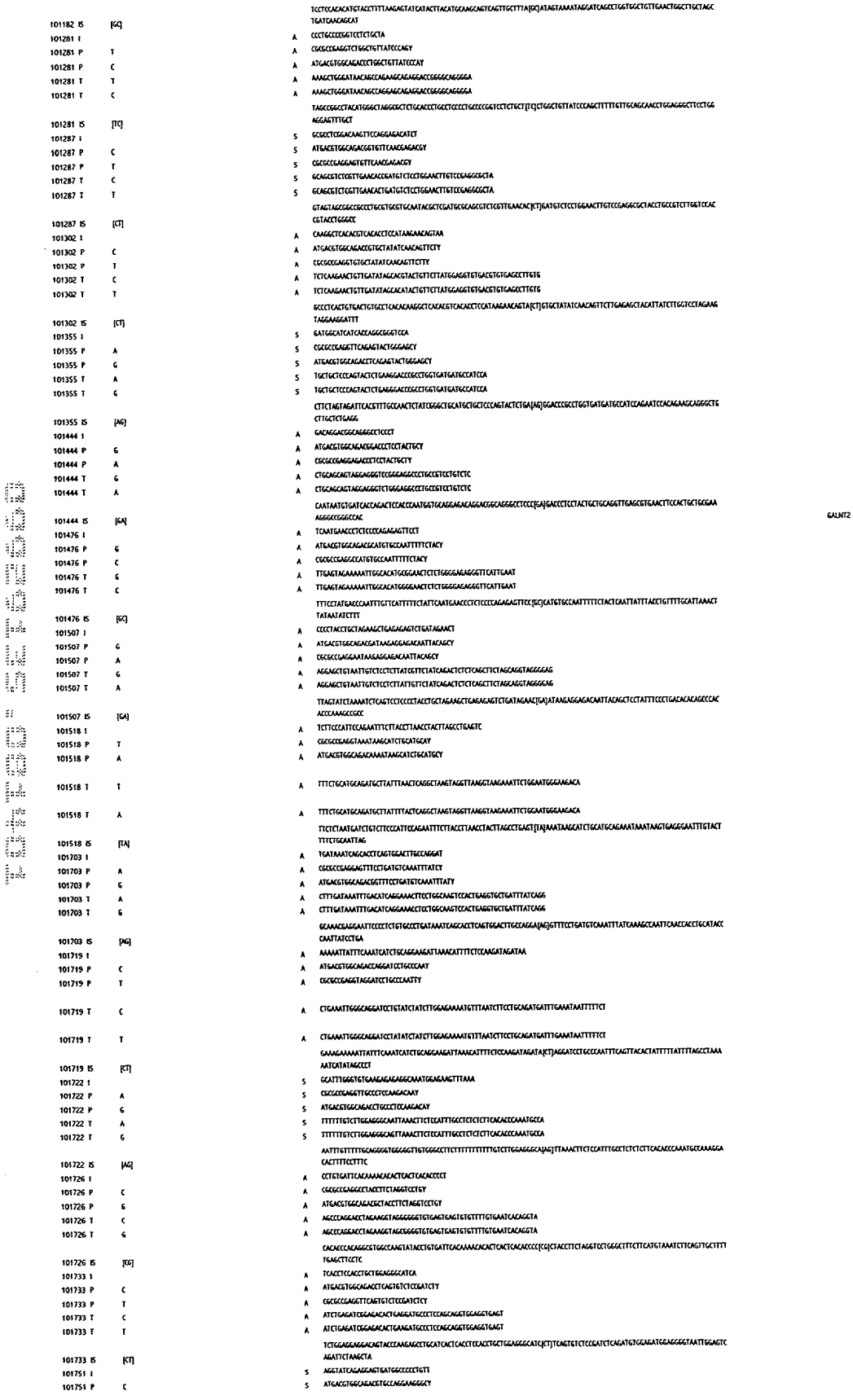

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100654 T G
100654 T C
100654 IS [GC]
100737 I
100737 P G
100737 P A
100737 T G
100737 T A
100737 IS [GA]
100738 I
100738 P G
100738 P C
100738 T G
100738 T C
100738 IS [GC]
100751 I
100751 P G
100751 P T
100751 T G
100751 T T
100751 IS [GT]
100765 I
100765 P T
100765 P C
100765 T T
100765 T C
100765 IS [TC]
100839 I
100839 P A
100839 P G
100839 T A
100839 T G
100839 IS [AC]
100924 I
100924 P C
100924 P T
100924 T C
100924 T T
100924 IS [CT]
100938 I
100938 P T
100938 P A
100938 T T
100938 T A
100938 IS [TA]
100940 I
100940 P A
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100940 T G
100940 IS [AG]
100945 I
100945 P G
100945 P A
100945 T G
100945 T A
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101094 I
101094 P G
101094 P A
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101094 T A
101094 IS [GA]
101097 I
101097 P G
101097 P A
101097 T G
101097 T A
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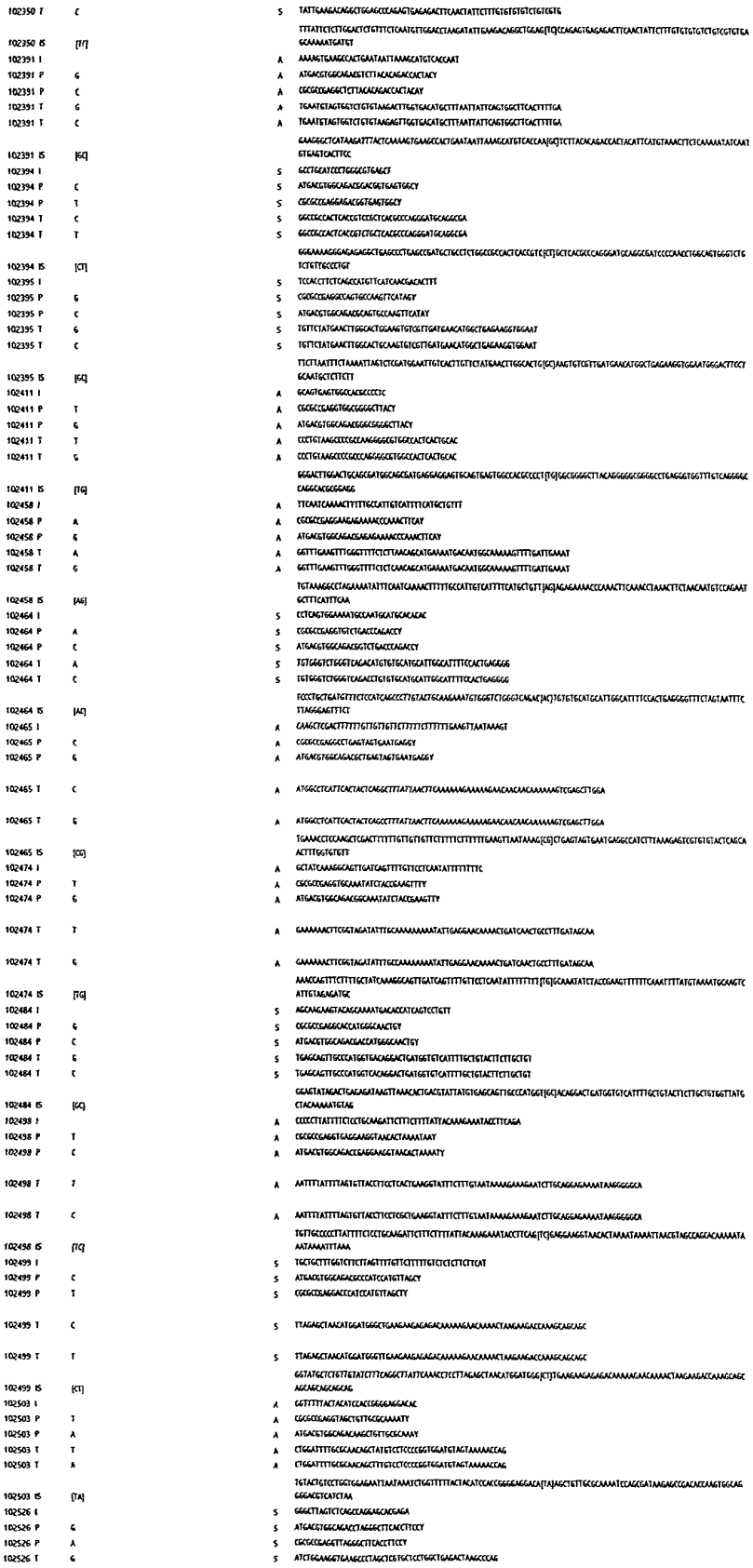
FIGURE 129C



GALNT2

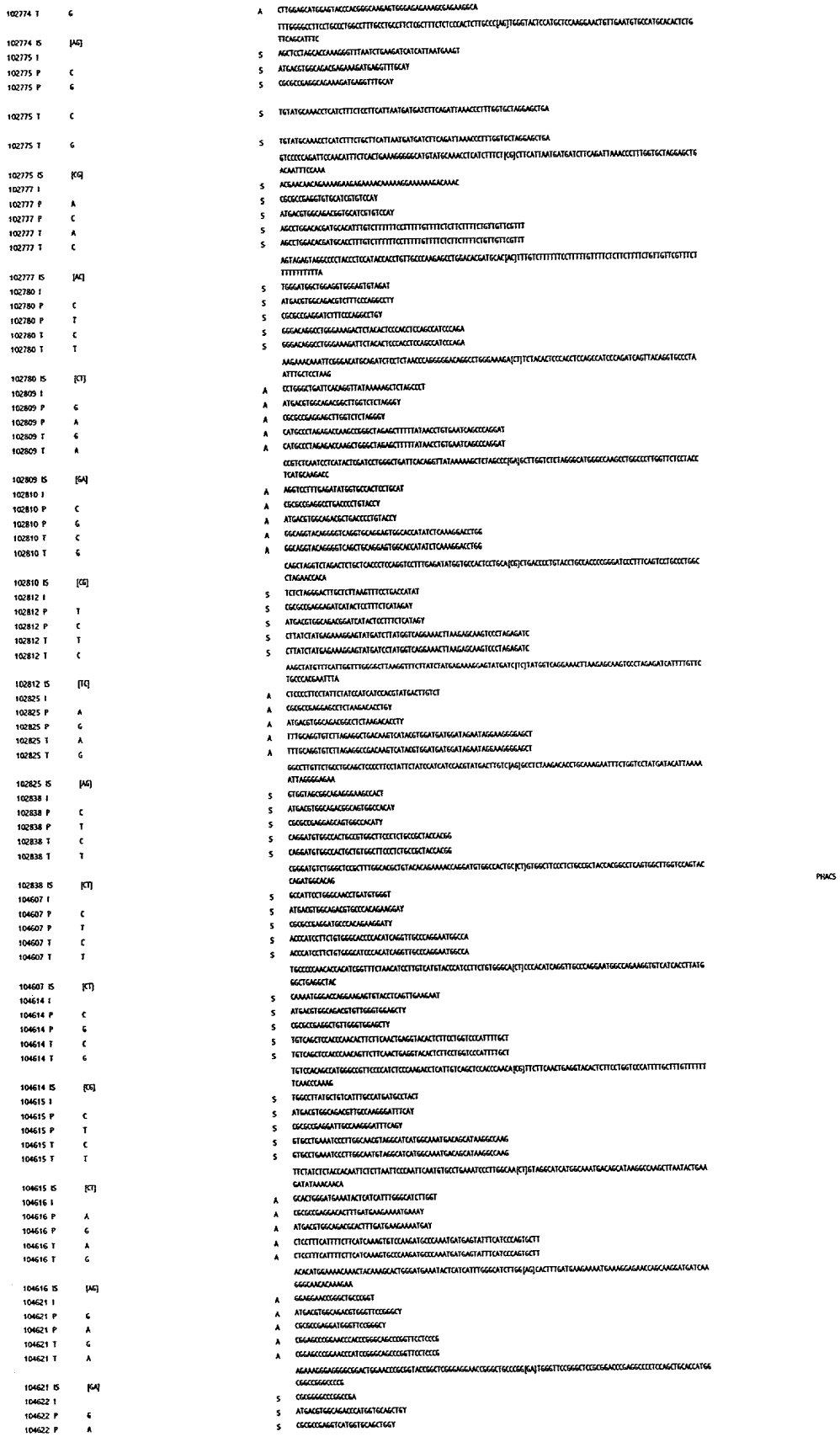
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101751 P    T    S  CGCGCCGAGGATGCCAGGAAGGGCY
101751 T    C    S  TCTGGGCCTTCCTGGCACACAGGGGGCCATCACTCCTCTGATACCTTC
101751 T    T    S  TCTGGGCCTTCCTGGCATACAGGGGGCCATCACTCCTCTGATACCTTC
                    GCCTAAGCCTGCTGCCTGGGACACTCACCAGCTCCTGGAAGACTCTGGGCCCTTCCTGGCA[CT]ACAGGGGGCCATCACTCCTCTGATACCTTCCCACTGCTCGTCAGTTTTG
101751 IS   [CT]        ACTTCAGAAAT
101754 I             A  GGGCTGGGGCACGCATGGCT
101754 P    G        A  ATGACGTGGCAGACGTGGGGACCGAAGY
101754 P    A        A  CGCGCCGAGGATGGGGCACCGAAGGY
101754 T    G        A  GTCACCCTCGGTCCCCACGCCATGCGTGCCCCACGCCCG
101754 T    A        A  GTCACCCTCGGTCCCCATGCCATGCGTGCCCCACGCCCG
                    TACCTACAGTGGATGTCCTACATCTCCTATGTCAGGTAGCGGGCGTGGGGCACGCATGGC[GA]TGGGGACCGAGGGTGACGGGGAAGAACCTCTCCAACAGCGTGAG
101754 IS   [GA]        GGGCTCACAAAAGC
102035 I             A  CCCTACTCCCACATCCCCCACATGCAA
102035 P    T        A  CGCGCCGAGGTTGCCATCCTCAATACCY
102035 P    C        A  ATGACGTGGCAGACCTGCCATCCTCAATACCY
102035 T    T        A  GGTGGGTATTGAGGATGGCAATGCATGTGGGGGATGTGGGGAGTAGGGCT
102035 T    C        A  GGTGGGTATTGAGGATGGCAGTGCATGTGGGGGATGTGGGAGTAGGGCT
                    AGGTCAGGGTATCCTAGAACCTTGGACCTCTAAGCCCTACTCCCACATCCCCCACATGCA[TC]TGCCATCCTCAATACCCACCTATNTTGGTTTAACACGCAATTTCTGGA
102035 IS   [TC]        TTTCGTTTCCTC
102130 I             S  CCAAGGTCACCCCTGCACCGACTCC
102130 P    A        S  CGCGCCGAGGTGCAGAGAGAGACTTCNCTY
102130 P    C        S  ATGACGTGGCAGACGGCAGAGAGACTTCACTY
102130 T    A        S  CTGCAGTGAAGTCTCTCTGCAGAGTCGGTGCAGGGGTGACCTTGGCT
102130 T    C        S  CTGCAGTGAAGTCTCTCTGCCGAGTCGGTGCAGGGGTGACCTTGGCT
                    CCTGGGCCATGTCCCCTGGTGGTAAGCATCCTTGCAAAGGCTGCAGTGAAGTCTCTCTGC[AC]GAGTCGGTGCAGGGGTGACCTTGGCTAATGTCAGAAACAACATAAGG
102130 IS   [AC]        ATGAAAATTATCT
102149 I             A  GCTGTCTCTTTGATTTTATTTGTACTCTCTTCTAGACTTATGGAAGTAT
102149 P    A        A  CGCGCCGAGGAATTACTATTTCACTCCTTTACCTY
102149 P    G        A  ATGACGTGGCAGACGATTACTATTTCACTCCTTTACCTY
102149 T    A        A  AAGCAGGTAAAGGAGTGAAATAGTAATTTACTTGCATAAGTCTAGAAGAGAGTACAAATAAAATCAAAGAGACAGCAT
102149 T    G        A  AAGCAGGTAAAGGAGTGAAATAGTAATCTACTTGCATAAGTCTAGAAGAGAGTACAAATAAAATCAAAGAGACAGCAT
                    AATGTTAGGTATGCTGCTCTTTGATTTTATTTGTACTCTCTTCTAGACTTATGCAAGTA[AG]ATTACTATTTCACTCCTTTACCTGCTTAAAAGGTGTGACTGTACAGA
102149 IS   [AG]        GCTCTGAATGCTT
102154 I             A  GCTTCTAAATTACAAAGGAAGCAAATGTTTTGTTTTGTTTTGTTTATCATTCT
102154 P    G        A  ATGACGTGGCAGACGTAGCCCCATCTTCATGY
102154 P    A        A  CGCGCCGAGGATAGCCCCATCTTCATGTY
102154 T    G        A  GATAACATGAAGATGGGGCTACGAATGATAAACAAACAAAACAAAACATTTGCTTCCTTTGTAATTTAGAAGCAG
102154 T    A        A  GATAACATGAAGATGGGGCTATGAATGATAAACAAACAAAACAAAACATTTGCTTCCTTTGTAATTTAGAAGCAG
                    ATTTTTCTGCTTCTAAATTACAAAGGAAGCAAATGTTTTGTTTTGTTTTATCATTC[GA]TAGCCCCATCTTCATGTTATCCATTTAATGCTTTTAAAGTATTTAAT
102154 IS   [GA]        ATTTTGTCTGTTT
102158 I             S  GGGCGGCCCCGCGTTCAAGGT
102158 P    C        S  ATGACGTGGCAGACGCAGCGGATCTGTGY
102158 P    T        S  CGCGCCGAGGACAGCGGATCTGTGCY
102158 T    C        S  GGGCGCACAGATCCGCTGCCCTTGAACGCGGGCCCCCCG
102158 T    T        S  GGGCGCACAGATCCGCTGTCCTTGAACGCGGGCCCCCCG
                    AGCGGCTGCGAGCGGGTGGGAGCGGGTGGGGGCGGGCGCCGCGGCGCACACGATCCGCTG[CT]CCTTGAACGCGGCCGCCCGGTTCCAGGCGGGAGGCCCAGGCAC
102158 IS   [CT]        AGGGGAGGCGGAG
102161 I             S  ACACCTGTTGGTCCACGCCCCTGAT
102161 P    T        S  CGCGCCGAGGAGACAAGAAAGAGTTGAGTGY
102161 P    G        S  ATGACGTGGCAGACCGACAAGAAAGAGTTGAGTY
102161 T    T        S  CTCTCACTCAACTCTTTCTTGTCTTCAGGGGCGTGGACCAACAGGTGTTT
102161 T    G        S  CTCTCACTCAACTCTTTCTTGTGGTCAGGGGCGTGGACCAACAGGTGTTT
                    CGGTCTTCTCATCCGAACTGCCACCTCCCTACCGTCCCTCTCACTCAACTCTTTCTTG[CT]GTCAGGGGCGTGGACCAACAGGTGTTTTTTGATGTCCTCAGGATTCAGTT
102161 IS   [TG]        TCTCATCCACG
102211 I             S  CATGAGCAGAGATGGTGCTGAAGATATTTGGGCATCT
102211 P    C        S  ATGACGTGGCAGACGTAAGTAGAAACATCTCTAAAGCTY
102211 P    T        S  CGCGCCGAGGATAAGTAGAAACATCTCTAAAGCTY
102211 T    C        S  TAGGAGCTTTAGAGATGTTTCTACTTACGATGCCCAAATATCTTCAGCACCATCTCTGCTCATGCT
102211 T    T        S  TAGGAGCTTTAGAGATGTTTCTACTTATGATGCCCAAATATCTTCAGCACCATCTCTGCTCATGCT
                    TAAAAAAAAAACTTATCCAAGCTGAAGCAAAAATAGGAGCTTTAGAGATGTTTCTACTTA[CT]GATGCCCAAATATCTTCAGCACCATCTCTGCTCATGCTCCATGTTTA
102211 IS   [CT]        ATACCTCAGGGGA
102218 I             S  AGGACGCGCCCAGCCCCGA
102218 P    G        S  ATGACGTGGCAGACCTCTGCCGGAGCCY
102218 P    A        S  CGCGCCGAGGTTCTGCCGGAGCCY
102218 T    G        S  TGGCGGCTCCCGCAGAGCGGGCCTGGGCGCGTCCTCG
102218 T    A        S  TGGCGGCTCCCGCAGAACGGGCCTGGGCGCGTCCTCG
                    CAGGCGCCCCAGGCAAGGGTGCGCGTCCCGCTACGCCCCCAGTGGCGGCTCCGGCAGA[GA]CGGGCCTGGGCGCGTCTCTCGCTCTCGGAGGGGCCTGGGGAGGCGCTC
102218 IS   [GA]        TGGCTGCGCGTC
102251 I             A  CTCTTTCCTCGTACATCCTGGTTTGACGCCCA
102251 P    T        A  CGCGCCGAGGTTGTGGTCACCCAGTCY
102251 P    C        A  ATGACGTGGCAGACCTGTGGTCACCCAGTY
102251 T    T        A  AAATGACTGGGTGACCACAAGGGGGTCAAACCAGGATGTACGAGGAAAAGAGAG
102251 T    C        A  AAATGACTGGGTGACCACAGGGGGTCAAACCAGGATGTACGAGGAAAAGAGAG
                    TGCAGGGACCCCTGCCCAGCCCCTTTCTCTCTCTTTCCTCGTACATCCTGGTTTGACGCCC[TC]TGTGTGCTCACCCAGTCATTTCTCCTGCTGGCGTTGGCCTGCGGAGTGAGC
102251 IS   [TC]        GGCTGGCGGGA
102300 I             S  GCTCTCATCTATCTCCTCCTGTGAAGATTCCACTGATATTCTACT
102300 P    C        S  ATGACGTGGCAGACGTGGACGTGTGATTGY
102300 P    T        S  CGCGCCGAGGATGGAGGTGTGGATTGAY
102300 T    C        S  AAGTTCAATCCACACGTCCACGTAGATATGAGTGGAATCTTCGACAGGAGGAGATAGATGAGAGCGA
102300 T    T        S  AAGTTCAATCCACACGTCCATGTAGATATGAGTGGAATCTTCGACAGGAGGAGATAGATGAGAGCGA
                    CATTTGCTGTTCCTTCCAGCTTTCCCAGGCTAAATCTGGAAAGTTCAATCCACACGTCCA[CT]GTACAATATGAGTGGAATCTTCGACAGGAGGAGATAGATGAGAGCGA
102300 IS   [CT]        TGATGATCTGGAT
102309 I             S  GGCTCAAGACAGACCTGGTAACCATGAACCCT
102309 P    G        S  CGCGCCGAGGCTCGGTCATCCAGCGY
102309 P    C        S  ATGAGTGGCAGACGTCGGTCATCCAGCGY
102309 T    G        S  GGCCCGCTGGCATGACCCAGGGGTTCATGGTTACCAGGTCTGTCTTGAGCCCC
102309 T    C        S  GGCCCGCTGGATGACCCAGGGGTTCATGGTTACCAGGTCTGTCTTGAGCCCC
                    CAGCAGCTTCTCCCGCCACGTGGCATTGACCAAGTCCTCAAAGGCCCGCTGGATGACCGA[GC]GGGTTCATGGTTACCAGGTCTGTCTTGAGCCCCACATCCCGGGCATAC
102309 IS   [GC]        TCCTGTACTGGG                                                                                                    SIAT88
102350 I             S  CGACAGACACACACAAAGAATAGTTGAAGTCTCTCACTCTGGT
102350 P    T        S  CGCGCCGAGGACTCCAGCCTGTCTTCY
102350 P    C        S  ATGACGTGGCAGACGCTCCAGCCTGTCTTY
102350 T    T        S  TATTGAAGACAGGCTGAAGTCCAGAGTGAGAGACTTCAACTATTCTTTGTGTGTGTCTGTGTG
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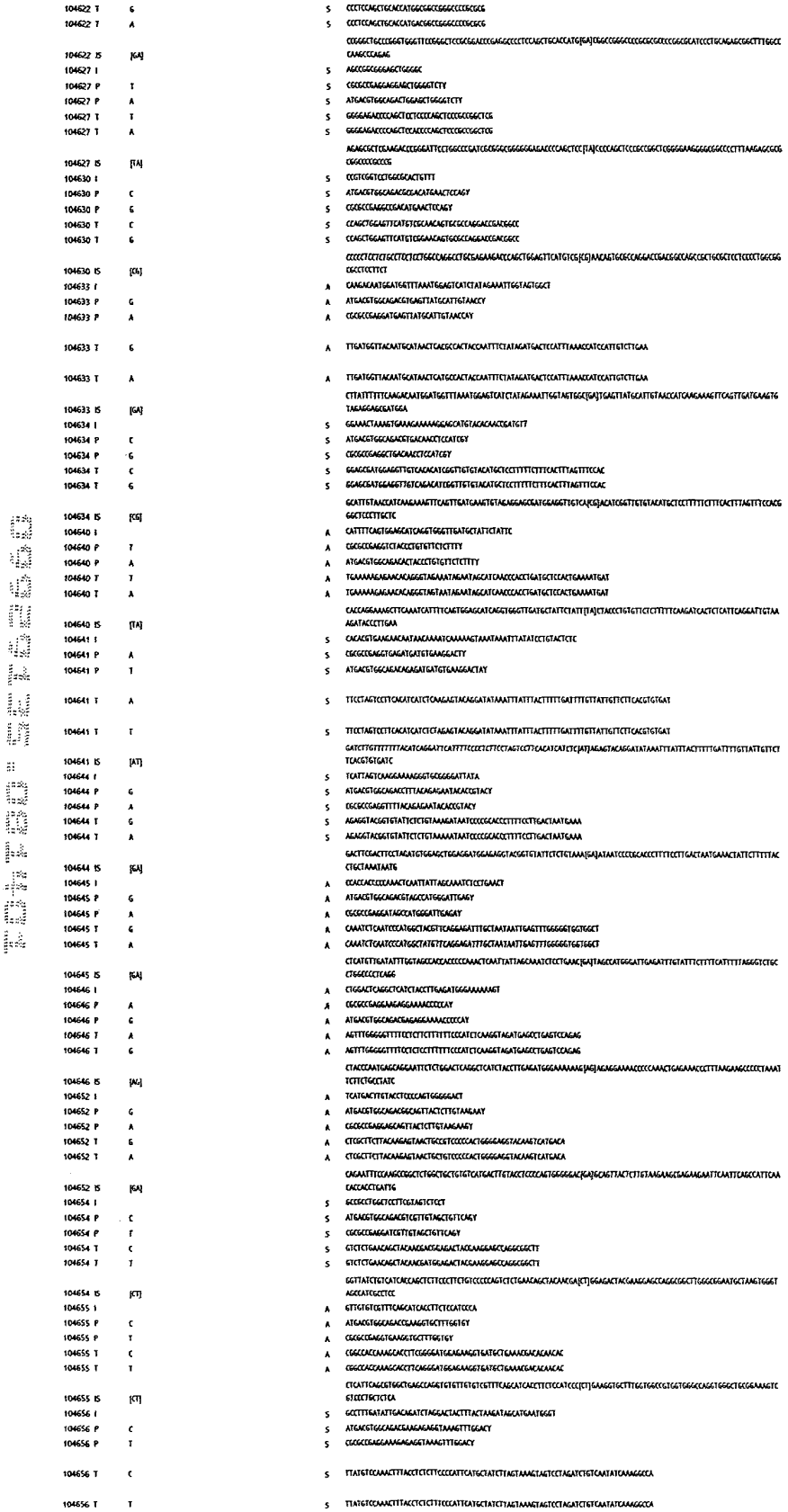
FIGURE 129C


102350 T C S TATTGAAGACAGGCTGGAGCCCAGAGTGAGAGACTTCAACTATTCTTTGTGTGTGTCTGTCGTG
102350 IS [TT] TTTATTCTCTTGGACTCTGTTTCTCAATGTTGGACCTAAGATATTGAAGACAGGCTGGAG[TC]CAGAGTGAGAGACTTCAACTATTCTTTGTGTGTCTGTCGTGA GCAAAAATGATGT
102391 I A AAAAGTGAAGCCACTGAATAATTAAAGCATGTCACCAAT
102391 P G A ATGACGTGGCAGAGTCTTACACAGACCACTACY
102391 P C A CGCGCGAGGCTCTTACACAGACCACTACAY
102391 T G A TGAATGTAGTGGTCTGTGTAAGACTTGGTGACATGCTTTAATTATTCAGTGGCTTCACTTTTGA
102391 T C A TGAATGTAGTGGTCTGTGTAAGAGTTGGTGACATGCTTTAATTATTCAGTGGCTTCACTTTTGA
102391 IS [GC] GAAGGGCTCATAAGATTTACTCAAAGTGAAGCCACTGAATAATTAAAGCATGTCACCAA[GC]TCTTACACAGACCACTACATTCATGTAAACTTCTCAAAAATATCAAT GTGAGTCACTTCC
102394 I S GCCTGCATCCCTGCCCCGTGAGCT
102394 P C S ATGACGTGGCAGACGCACGGTGAGTGGCY
102394 P T S CGCGCCGAGGAGACGGTGAGTGGCY
102394 T C S GGCCCCCACTCACCGTCCGCTCACGCCCAGGGATGCAGGCGA
102394 T T S GGCCGCCACTCACCGTCTGCTCACGCCCAGGGATGCAGGCGA
102394 IS [CT] GGGAAAAGGGAGAGAGCGCTGAGCCCTGAGCCGATGCTGCCTCTGGCCGCCACTCACCGTC[CT]GCTCACGCCCAGGGATGCAGGCGATCCCCAACCTGGCAGTGGGTCTG TCTGTTGCCCTGT
102395 I S TCCACCTTCTCAGCCATGTTCATCAACGACACTTT
102395 P G S CGGCCCGAGGCCAGTGCCAAGTTCATAGY
102395 P C S ATGACGTGGCAGAGCAGTGCCAAGTTCATAY
102395 T G S TGTTCTATGAACTTGGCACTGGAAGTGTCGTTGATGAACATGGCTGAGAAGGTGGAAT
102395 T C S TGTTCTATGAACTTGGCACTGCAAGTGTCGTTGATGAACATGGCTGAGAAGGTGGAAT
102395 IS [GC] TTCTTAATTTCTAAAATTAGTCTGGATGGAATTGTCACTTGTTCTATGAACTTGGCACTG[GC]AAGTGTCGTTGATGAACATGGCTGAGAAGGTGGAATGGGACTTCCT GCAATGCTCTTCTT
102411 I A GCAGTGAGTGGCCACGCCCCTC
102411 P T A CGCGCCGAGGTGGCGGGGCTTACY
102411 P G A ATGACGTGGCAGAGGGGCGGGGCTTACY
102411 T T A CCCTGTAAGCCCCGCCAAGGGGCGTGGCCACTCACTGCAC
102411 T G A CCCTGTAAGCCCCGCCAGGGGCGTGGCCACTCACTGCAC
102411 IS [TG] GGGACTTGGACTGCAGCGATGGCAGCGATGAGGAGGAGTGCAGTGAGTGGCCACGCCCCT[TG]GGCGGGGCTTACAGGGGGCGGGGCCTGAGGGTGGTTTGTCAGGGGC CAGGCACGGGGAGG
102458 I A TTCAATCAAAACTTTTGCCATTGTCATTTTCATGCTGTTT
102458 P A A CGCGCCGAGGAAGAGAAAACCCAAACTTCAY
102458 P G A ATGACGTGGCAGACGAAGAGAAAACCCAAACTTCAY
102458 T A A GGTTTGAAGTTTGGGTTTTCTCTCAACAGCATGAAAATGACAATGGCAAAAAGTTTTGATTGAAAT
102458 T G A GGTTTGAAGTTTGGGTTTTCTCTCAACAGCATGAAAATGACAATGGCAAAAAGTTTTGATTGAAAT
102458 IS [AG] TGTAAAGGCCTAGAAAATATTTCAATCAAAACTTTTTGCCATTGTCATTTTCATGCTGTT[AG]AGAGAAAACCCAAACTTCAAACCTAAACTTCTAACAATGTCCAGAAT GCTTTCATTTCAA
102464 I S CCTCAGTGGAAAATGCCAATGCATGCACACAC
102464 P A S CCGCCCGAGGTGTCTGACCCAGACCY
102464 P C S ATGACGTGGCAGACGGTCTGACCCAGACCY
102464 T A S TGTGGGTCTGGGTCAGACATGTGTGCATGCATTGGCATTTTCCACTGAGGGG
102464 T C S TGTGGGTCTGGGTCAGACCTGTGTGCATGCATTGGCATTTTCCACTGAGGGG
102464 IS [AC] TCCCTGCTGATGTTTCTCCCATCAGCCCTTGTACTGCAAGAAATGTGGGTCTCGGGTCAGAC[AC]TGTGTGCATGCATTGGCATTTTCCACTGAGGGGTTTCTAGTAATTTC TTAGGGAGTTTCT
102465 I A CAAGCTCGACTTTTTTGTTGTTGTTCTTTTTCTTTTTTGAAGTTAATAAAGT
102465 P C A CGCGCCGAGGCCTGAGTAGTGAATGAGGY
102465 P G A ATGACGTGGCAGACGCTGAGTAGTGAATGAGGY
102465 T C A ATGGCCTCATTCACTACTCAGGCTTTATTAACTTCAAAAAAGAAAAAGAACAACAACAAAAAAGTCGAGCTTGGA
102465 T G A ATGGCCTCATTCACTACTCAGCCTTTATTAACTTCAAAAAACAAAAAGAACAACAACAAAAAAGTCGAGCTTGGA
102465 IS [CG] TGAAACTCCAAGCTCGACTTTTTTGTTGTTGTTCTTTTTCTTTTTTGAAGTTAATAAAG[CG]CTGAGTAGTGAATGAGGCCATCTTAAAGAGTCGTGTGTACTCAGCA ACTTTGGTGTGTT
102474 I A GCTATCAAAGGCAGTTGATCAGTTTTGTTCCTCAATATTTTTTTC
102474 P T A CGCGCCGAGGTGCAAATATCTACCGAAGTTTY
102474 P G A ATGACGTGGCAGACGGCAAATATCTACCGAAGTTY
102474 T T A GAAAAACTTCGGTAGATATTTGCAAAAAAAAATATTGAGGAACAAAACTGATCAACTGCCTTTGATAGCAA
102474 T G A GAAAAACTTCGGTAGATATTTGCCAAAAAAAATATTGAGGAACAAAACTGATCAACTGCCTTTGATAGCAA
102474 IS [TG] AAACAGTTTCTTTTGCTATCAAAGGCAGTTGATCAGTTTTGTTCCTCAATATTTTTTTT[TG]GCAAATATCTACCGAAGTTTTTTCAAATTTTATGTAAAATGCAAGTC ATTGTAGAGATGC
102484 I S AGCAGCAAGTACAGCAAAATGACACCATCAGTCCTGTT
102484 P G S CGCGCCGAGGCACCATGGGCAACTGY
102484 P C S ATGACGTGGCAGACGACCATGGGCAACTGY
102484 T G S TGAGCAGTTGCCCATGGTGACAGGACTGATGGTGTCATTTTGCTGTACTTCTTGCTGT
102484 T C S TGAGCAGTTGCCCATGGTCACAGGACTGATGGTGTCATTTTGCTGTACTTCTTGCTGT
102484 IS [GC] GGAGTATACACTGAGAGATAAGTTAAACACTGACGTATTATGTGAGCAGTTGCCCATGGT[GC]ACAGGACTGATGGTGTCATTTTGCTGTACTTCTTGCTGTGGTTATG CTACAAAAATGTAG
102498 I A CCCCCTTATTTTCTCCCTGCAAGATTCTTTCTTTTATTACAAAGAAATACCTTCAGA
102498 P T A CGCGCCGAGGTGAGGAAGGTAACACTAAAATAAY
102498 P C A ATGACGTGGCAGACCGAGGAAGGTAACACTAAAATY
102498 T T A AATTTTATTTTAGTGTTACCTTCCTCACTGAAGGTATTTCTTTGTAATAAAAGAAAGAATCTTGCAGGAGAAAATAAGGGGGCA
102498 T C A AATTTTATTTTAGTGTTACCTTCCTCGCTGAAGGTATTTCTTTGTAATAAAAGAAAGAATCTTGCAGGAGAAAATAAGGGGGCA
102498 IS [TC] TGTTGCCCCCTTATTTTCTCCTGCAAGATTCTTTCTTTTATTACAAAGAAATACCTTCAG[TC]GAGGAAGGTAACACTAAAATAAAATTAACGTAGCCAGCACAAAAATA AATAAAATTTAAA
102499 I S TGCTGCTTTGGTCTTCTTAGTTTTGTTCTTTTTGTCTCTCTTCTTCAT
102499 P C S ATGACGTGGCAGACGCCCATCCATGTTAGCY
102499 P T S CGCGCCGAGGACCCATCCATGTTAGCTY
102499 T C S TTAGAGCTAACATGGATGGGCTGAAGAAGAGAGACAAAAAGAACAAAACTAAGAAGACCAAAGCAGCAGC
102499 T T S TTAGAGCTAACATGGATGGGTTGAAGAAGAGAGACAAAAAGAACAAAACTAAGAAGACCAAAGCAGCAGC
102499 IS [CT] GGTATGCTCTGTTGTATCTTTCAGGCTTATTCAAACCTCCTTAGAGCTAACATGGATGGG[CT]TGAAGAAGAGAGACAAAAAGAACAAAACTAAGAAGACCAAAGCAGC AGCAGCAGCAGCAG
102503 I A GGTTTTTACTACATCCACCGGGGAGGACAC
102503 P T A CGCGCCGAGGTAGCTGTTGCGCAAAATY
102503 P A A ATGACGTGGCAGACAAGCTGTTGCGCAAAY
102503 T T A CTGGATTTTGCGCAACAGCTATGTCCTCCCCGGTGGATGTAGTAAAAACCAG
102503 T A A CTGGATTTTGCGCAACAGCTTTGTCCTCCCCGGTGGATGTAGTAAAAACCAG
102503 IS [TA] TGTACTGTCCTGGTGCAGAAATTAATAAATCTGGTTTTTACTACATCCACCGGGGAGGACA[TA]AGCTGTTGCGCAAAATCCAGCGATAAGAGCCCACACCAAGTGGCAG GGCAGCTCATCTAA
102526 I S GGGCTTAGTCTCAGCCAGGAGCACGAGA
102526 P G S ATGACGTGGCAGACCTAGGGCTTCACCTTCCY
102526 P A S CGCGCCGAGGTTAGGGCTTCACCTTCCY
102526 T G S ATCTGGAAGGTGAAGCCCTAGCTCGTGCTCCTGGCTGAGACTAAGCCCAG

102526 T	A	S	ATCTGGAAGGTGAAGCCCTAACTCGTGCTCCTGGCTGAGACTAAGCCCAG		
102526 IS	[GA]		AGCAGCAGGGATTTTTAATTGGCTGGAAGAGACGGCGAAGATCTGGAAGGTGAAGCCCTA[GA]CTCGTGCTCCTGGCTGAGACTAAGCCCAGGTTTCAGCATTAGGAAG GAAAGCTAAACCAC		
102531 I		A	AGCACTACCAACCAGACTACAATATCTGCTTTTC		
102531 P	A	A	CGCGCCGAGGACTTATAGATTTTCAGCCATGTY		
102531 P	T	A	ATGACGTGGCAGACTCTTATAGATTTTCAGCCATGTY		
102531 T	A	A	TAAAACATGGCTGAAAATCTATAAGTAAAAGCAGATATTGTAGTCTGGTTGGTAGGTGCTAA		
102531 T	T	A	TAAAACATGGCTGAAATCTATAAGAAAAGCAGATATTGTAGTCTGGTTGGTAGGTGCTAA		
102531 IS	[AT]		ACTAAGACAAGACAAACATTACTTTTAGCACCTACCAACCAGACTACAATATCTGCTTTT[AT]CTTATAGATTTTCAGCCATGTTTTACTAAAACACAAGAGTTTCTTC TGTGGTGTTCTA		
102533 I		A	CACTGCAAAGAACTACACCATTGCTGAAGTACAGTTCCAATTC		
102533 P	T	A	CGCGCCGAGGTGATTCATGGCTTACTGGY		
102533 P	G	A	ATGACGTGGCAGACGGATTCATGGCTTACTGGY		
102533 T	T	A	AAGTCCAGTAAGCCATGAATCAAATTGGAACTGTACTTCAGCAATGGTGTAGTTCTTTGCAGTGCA		
102533 T	G	A	AAGTCCAGTAAGCCATGAATCCAATTGGAACTGTACTTCAGCAATGGTGTAGTTCTTTGCAGTGCA		
102533 IS	[TG]		ACTTAACATAATAGACTGCACTGCAAAGAACTACACCATTGCTGAAGTACAGTTCCAATT[TG]GATTCATGGCTTACTGGACTTATATTACTGTTGGTGTTGGAAATTT GAAAGATATTAGAG		
102553 I		A	CCCCACATACTGAACTAGTAAACCAAGAAAACAATGGAAT		
102553 P	G	A	ATGACGTGGCAGACGCTTTCCAATATAAATCTGGTTTY		
102553 P	A	A	CGCGCCGAGGACTTTCCAATATAAATCTGGTTTTY		
102553 T	G	A	TTGCAAAACCAGATTTATATTGGAAAGCTTCCATTGTTTTTCTTGGTTTACTAGTTCAGTATGTGGGGTC		
102553 T	A	A	TTGCAAAACCAGATTTATATTGGAAAGTTTCCATTGTTTTTCTTGGTTTACTAGTTCAGTATGTGGGGTC		
102553 IS	[GA]		TGAAAGTCAAAAACATTAGACCCCACATACTGAACTAGTAAACCAAGAAAAACAATGGAA[GA]CTTTCCATATAAATCTGGTTTTGCAAGGGGAAAAAAGCCTCCTAG TTGTATCATTTAAA		
102632 I		A	CCACAGGTAAAAAGGAACTACAAGTCTGAAGAGTGAAAATGTATATAAAGCCTTTC		
102632 P	T	A	CGGGCCGAGGTTGGCCATGGTAGTTTCY		
102632 P	A	A	ATGACGTGGCAGACATGGCCATGGTAGTTTCY		
102632 T	T	A	AACTGAAACTACCATGGCCAAAAAGGCTTATATACATTTTCACTCTTCAGACTTGTAGTTCCTTTTTACCTGTGGTT		
102632 T	A	A	AACTGAAACTACCATGGCCATAAAGGCTTATATACATTTTCACTCTTCAGACTTGTAGTTCCTTTTTACCTGTGGTT		
102632 IS	[TA]		CCGCAACCACAGGTAAAAAGGAACTACAAGTCTGAAGAGTGAAAATGTATATAAAGCCTTT[TA]TGGCCATGGTAGTTTCAGTTGTCAAAGGTTTTTTGTGTGTGTCTTA TATTTTTTTTAAA		
102677 I		A	TGAGTTCCATCTGACTTTTCATTGAAGCAAAATTATTCTCTCTC		
102677 P	T	A	CGCGCCGAGGTAACTGCTCTAAGTTTTCTTGAY		
102677 P	A	A	ATGACGTGGCAGACAAACTGCTCTAAGTTTTCTTGAY		
102677 T	T	A	CATCTCAAGAAAACTTAGAGCAGTTAAGAGAGAATAATTTTGCTTCAATGAAAAGTCAGATGGAACTCAGA		
102677 T	A	A	CATCTCAAGAAAACTTAGAGCAGTTTAGAGAGAATAATTTTGCTTCAATGAAAAGTCAGATGGAACTCAGA		
102677 IS	[TA]		TTCCAGATCTTTAATTCTGAGTTCCATCTGACTTTTCATTGAAGCAAAATTATTCTCTCT[TA]AACTGCTCTAAGTTTTCTTGAGATGCTGCTTGTGCCTAAAACAAATT AAAAGCATATGTT		
102681 I		A	CGTCTGGACAAGCTGGGCCTGGGT		
102681 P	A	A	CGCGCCGAGGAGCCGACGTGGCY		
102681 P	C	A	ATGACGTGGCAGACCGCCGACGTGGCY		
102681 T	A	A	CTGGGCCACGTCGGCTCCCAGGCCCAGCTTGTCCAGACGCC		
102681 T	C	A	CTGGGCCACGTCGGCCCCAGGCCCAGCTTGTCCAGACGCC		
102681 IS	[AC]		GTGGGTGTACACAGCGCGGTCGGTGCTGGGCCCGAGGCGTCTGGACAAGCTGGGCCTGGG[AC]GCCGACGTGGCCCAGGTGACCGGGGCCCTCCGGAGTGGCAGGGGGA AGATGCTGCTGTC		MMP9
102704 I		S	GACCCTGGTGGCCAGCGTGCAA		
102704 P	A	S	CGCGCCGAGGTGAGAATGACATGCGTGY		
102704 P	G	S	ATGACGTGGCAGACCGAGAATGACATGCGTGY		
102704 T	A	S	TTCCCACGCATGTCATTCTCATGCAGCTGGCCACCAGGGTCCA		
102704 T	G	S	TTCCCACGCATGTCATTCTCTGSTGCAGCCTGGCCACCAGGGTCCA		
102704 IS	[AG]		GCTGCCCTGCTGACTGGACCAGCGATCGCCCACCGTGCACTTCCCACGCATGTCATTCTC[AG]TGCAGCCTGGCCACCAGGGTCCAGCCGCCACCCCCAGAGGTCATGTCAC AGAAGGTCTGG		FLJ20022
102713 I		A	AGAGCCTTCGCTCAGGCCTCTGGCCA		
102713 P	C	A	ATGACGTGGCAGACCCTATTCACCTTCCTTCTGY		
102713 P	T	A	CGCGCCGAGGTCTATTCACCTTCCTTCTGAY		
102713 T	C	A	CTGCTCAGAAGGAAGGTGAATAGGGGCCAGAGCCTGAGCGAAGCCTCTTA		
102713 T	T	A	CTGCTCAGAAGGAAGGTGAATAGAGGCCAGAGCCTGAGCGAAGCCTCTTA		
102713 IS	[CT]		CTCAGTGGGCAGAGGTATGCCTGCCAACGGGATATAAGAGGCTTGGCTCAGGCTCTGGCC[CT]CTATTCACCTTCCTTCTGAGCAGGGAAAGAGGTTCTCTTGGTGCCAG CCCTAAACACACT		
102726 I		A	CTTTGAGGTTGGCTCTCCAGTCCCTGGGT		
102726 P	G	A	ATGACGTGGCAGACGTCTTCTGACGGGGCY		
102726 P	A	A	CGCGCCGAGGATCTTCTGACGGGGCY		
102726 T	G	A	CATGGCCCCGTCAGAAGACCCCAGGGACTGGAGAGCCAACCTCAAAGGC		
102726 T	A	A	CATGGCCCCGTCAGAAGATCCCAGGGACTGGAGAGCCAACCTCAAAGGC		
102726 IS	[GA]		GCTGGTCTCCAGGCCTGTCTCACGGATGGTGCCTTTGAGGTTGGCTCTCCAGTCCCTGGG[GA]TCTTCTGACGGGGCCATGCGGCTACTTCGGCGCCTGCCTAGCTCTGGC AGGAGAGGAGCT		
102761 I		A	GATCTGTCAGAGCAGATTTCCACTGCAGGCACA		
102761 P	C	A	ATGACGTGGCAGACCGAAGCCTCGGGGT		
102761 P	T	A	CGCGCCGAGGTGAAGCCTCGGGGT		
102761 T	C	A	CTGTCCCCGAGGCTTCGGTGCCTGCAGTGGAAATCTGCTCTGACAGATCTG		
102761 T	T	A	CTGTCCCCGAGGCTTCAGTGCCTGCAGTGGAAATCTGCTCTGACAGATCTG		
102761 IS	[CT]		TACCTTTCTTGCAGTCATTCCAGCCACAGATCTGTCAGAGCAGATTTCCACTGCAGGCAC[CT]GAAGCCTCGGGGCAGGCAATATGAAGTTCATGCTAAATGGGGCCCT AACTATCGGGACC		
102767 I		S	CCTGGCGAGGAGCCAGCAACCCTTTATA		
102767 P	G	S	ATGACGTGGCAGACCGAACAGAAAGAGGAGAY		
102767 P	A	S	CGCGCCGAGGTGACAGAAAGAGGAGAAAY		
102767 T	G	S	TTTGTTTCTCCTCTTTCTGTCCGATAAAGGGTTGCTGGCTCCTCGCCAGGTC		
102767 T	A	S	TTTGTTTCTCCTCTTTCTGTCCAATAAAGGGTTGCTGGCTCCTCGCCAGGTC		
102767 IS	[GA]		TTTTGTTGTTTAAATCTTTATCCCTCTCTTTTTTATTTTGTTTCTCCTCTTTCTGTCC[GA]ATAAAGGGTTGCTGGCTCCTCGCCAGGTCTCTGCAAACTCAGAGGGCA TGGACAACATTC		
102770 I		A	GTCAGTGATCTTCTCATGAACCATCTTGACTATAAAAGCAATTT		
102770 P	C	A	CGCGCCGAGGCTTATTAGACTTCACCATAGTCAY		
102770 P	G	A	ATGACGTGGCAGACGTTATTAGACTTCACCATAGTCAY		
102770 T	C	A	AATCTGACTATGGTGAAGTCTAATAAGAATTGCTTTTATAGTCAAGATGGTTCATGAGAAGATCACTGACTT		
102770 T	G	A	AATCTGACTATGGTGAAGTCTAATAACAATTGCTTTTATAGTCAAGATGGTTCATGAGAAGATCACTGACTT		
102770 IS	[CG]		GATACATGAAAAGGTAAGTCAGTGATCTTCTCATGAACCATCTTGACTATAAAAGCAATT[CG]TTATTAGACTTCACCATAGTCAGATTAGTCAGATTCATCAGTCTTA ACAGTCCCCAAGG		
102774 I		A	CCTTCTCGCTTTCTCTCCCACTCTTGCCCT		
102774 P	A	A	CGCGCCGAGGATGGGTACTCCATGCTCY		
102774 P	G	A	ATGACGTGGCAGACGTGGGTACTCCATGCTY		
102774 T	A	A	CTTGAAGCATGGAGTACCCATGGGCAAGAGTGGGAGAGAAAGCGAGAAGGCA		

FIGURE 129C





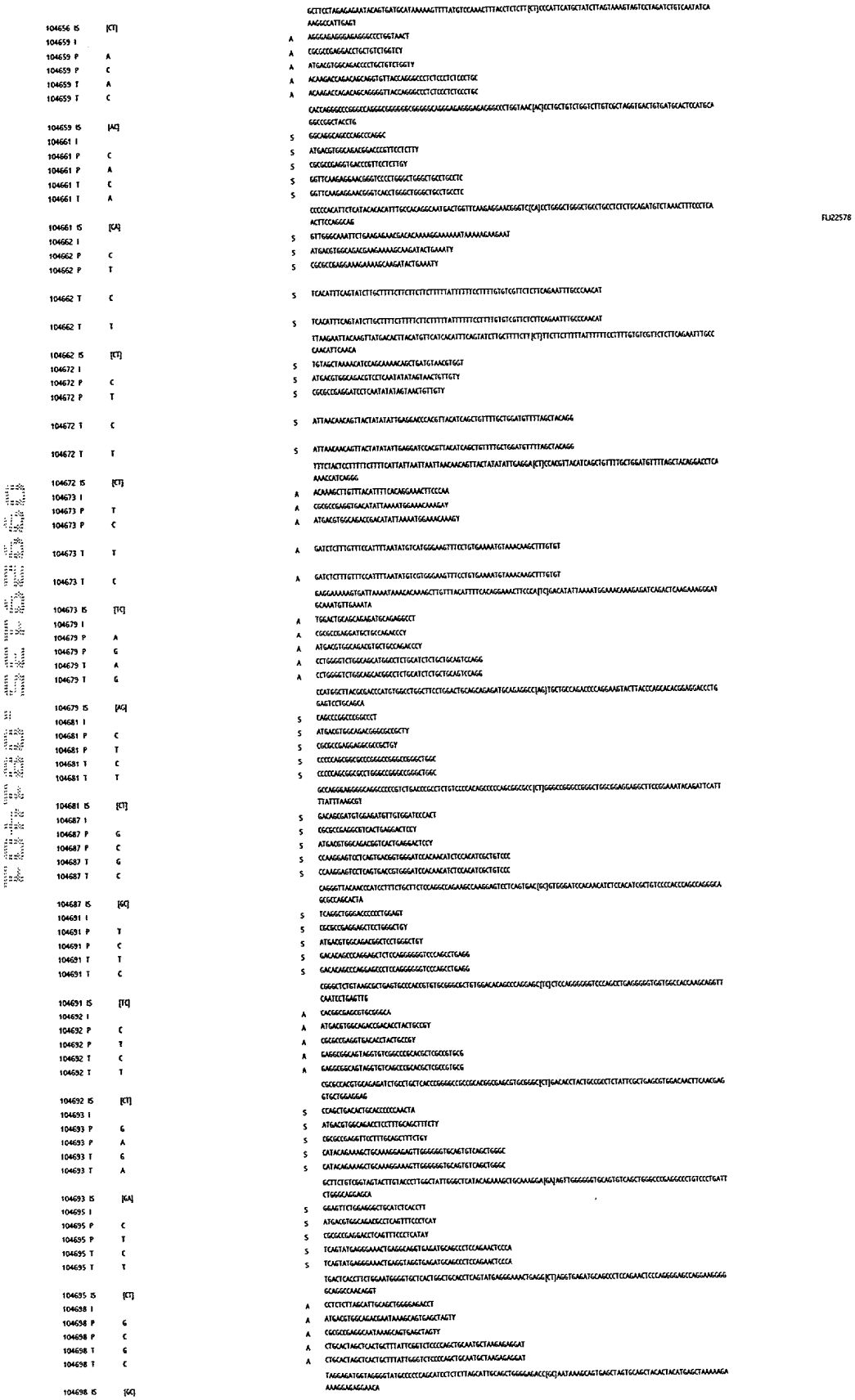


FIGURE 129C

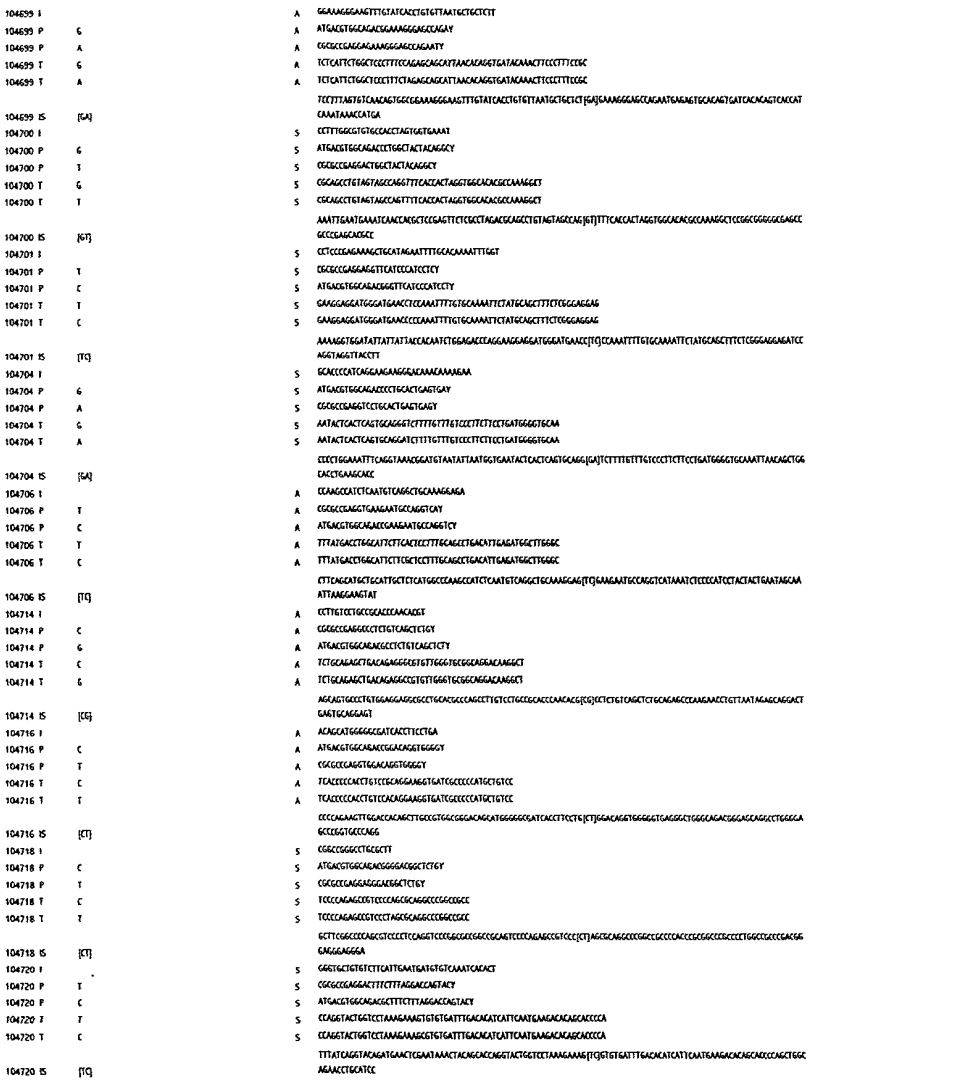


FIGURE 129C

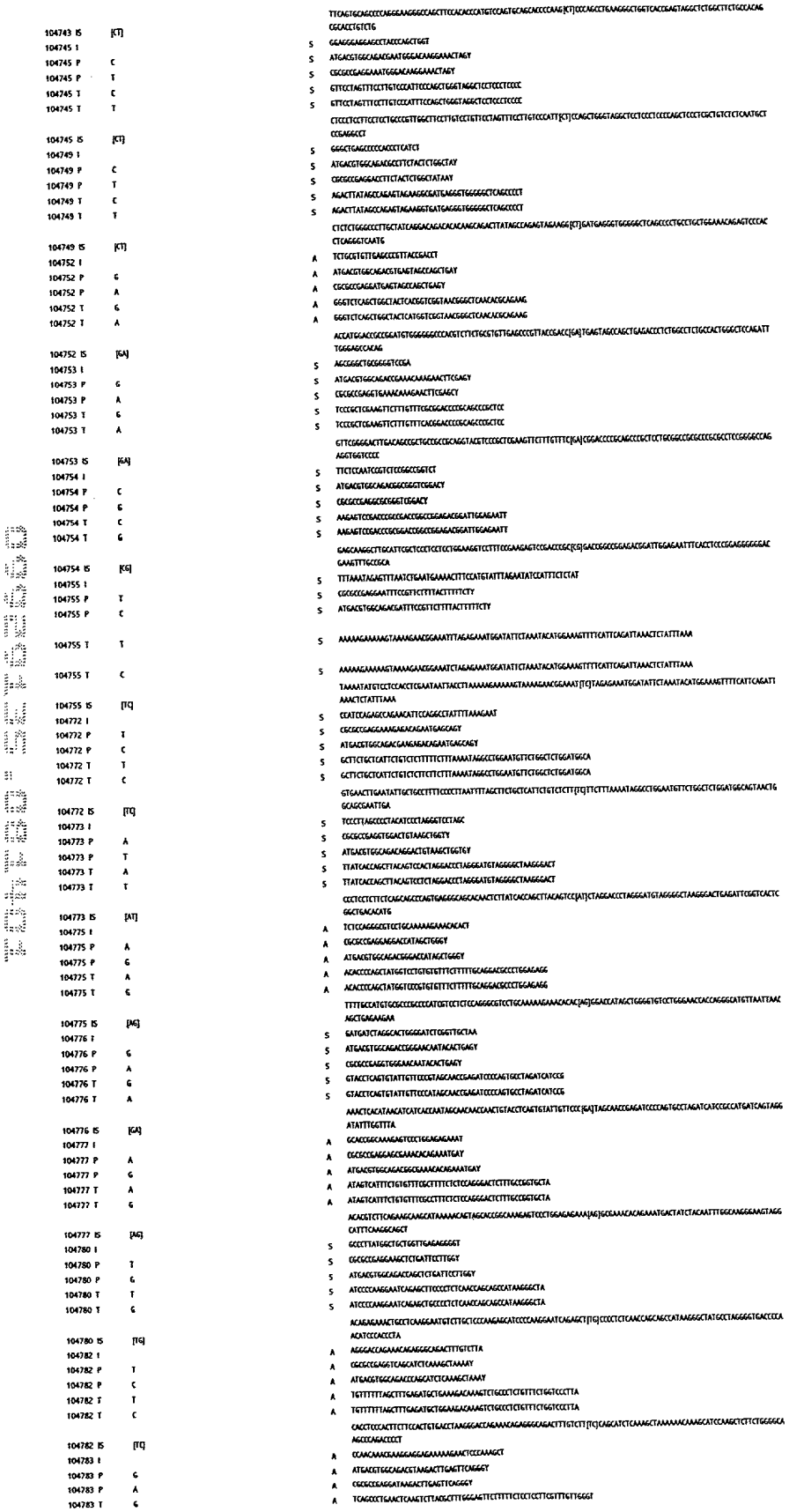


FIGURE 129C

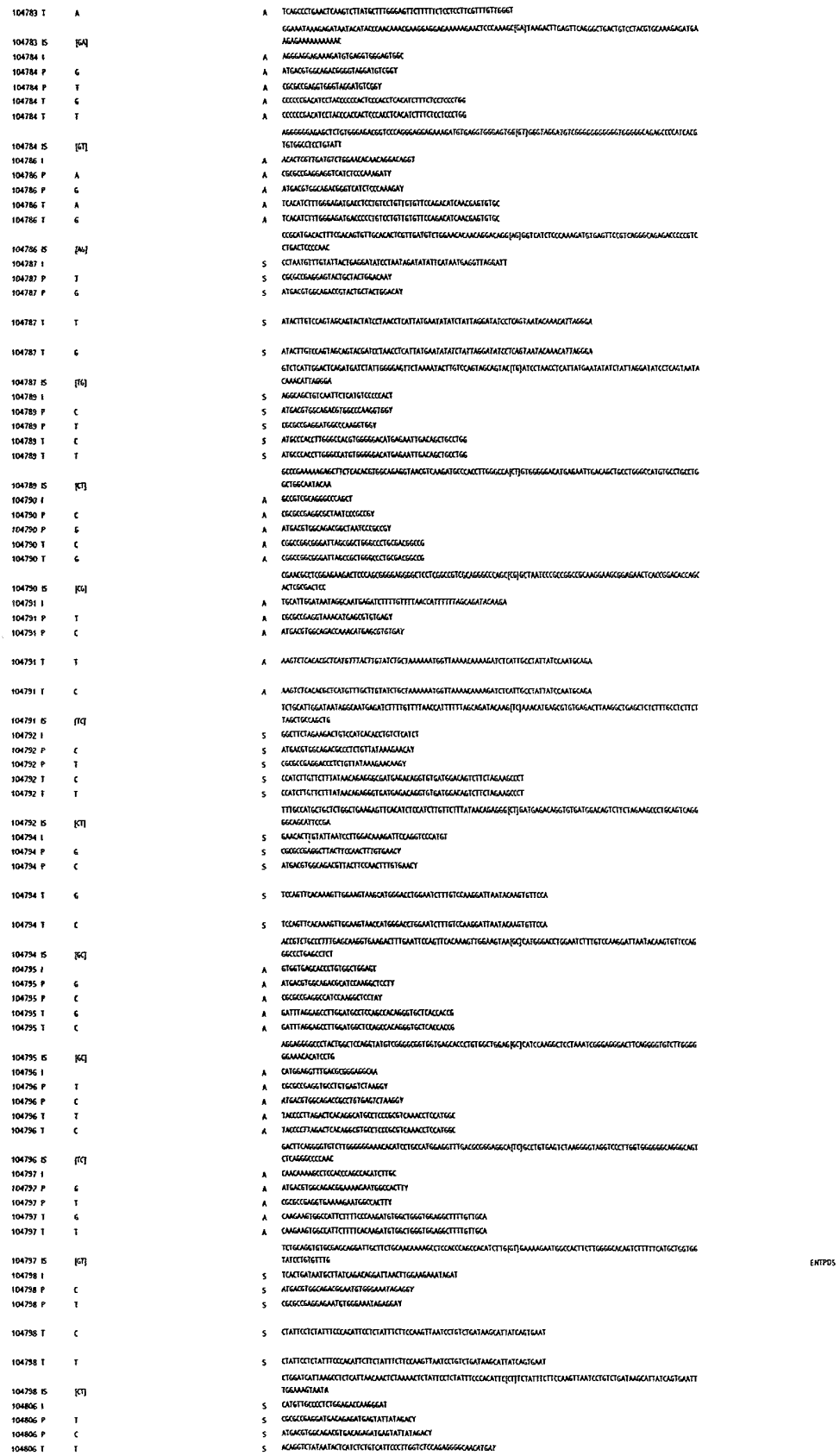

104783 T A A TCAGCCCTGAACTCAAGTCTTATGCTTTGGGAGTTCTTTTTCTCCTCCTTCGTTTGTTGGGT
104783 IS [GA] GGAAATAAAGAAGATAATACATATCCCAACAAACGAAGGAGGAGAAAAAGAACTCCCAAAGC[GA]TAAGACTTGAGTTCAGGGCTGACTGTCCTACGTGCAAAGAGATGA AGAGAAAAAAAAAAC
104784 I A AGGGAGCAGAAAGATGTGAGGTGGGAGTGGC
104784 P G A ATGACGTGGCAGACGGGGTAGGATGTCGGT
104784 P T A CGCGCTGAGGTGGGTAGCATGTCGGY
104784 T G A CCCCCCGACATCCTACCCCCCACTCCCACCTCACATCTTTCTCCTCCCTGG
104784 T T A CCCCCCGACATCCTACCCACCACTCCCACCTCACATCTTTCTCCTCCCTGG
104784 IS [GT] AGGGGGGAGAGCTCTGTGGGAGACGGTCCCAGGGAGGAGAAAGATGTGAGGTGGGAGTGG[GT]GGGTAGGATGTCGGGGGGGGGGGGTGGGGGCAGAGCCCCATCACG TGTGCCCTCCTGTATT
104786 I A ACACTCGTTGATGTCTGGAACACAACAGGACAGGT
104786 P A A CGCGCCGAGGAGGTCATCTCCCAAAGATY
104786 P G A ATGACGTGGCAGACGGGTCATCTCCCAAAGAY
104786 T A A TCACATCTTTGGGAGATGACCCTCCTGTCCTGTTGTGTTCCAGACATCAACGAGTGTGC
104786 T G A TCACATCTTTGGGAGATGACCCCCTGTCCTGTTGTGTTCCAGACATCAACGAGTGTGC
104786 IS [AG] CCGCATGACACTTTCGACAGTGTTGCACACTCGTTGATGTCTGGAACACACAGGACAGG[AG]GGTCATCTCCCAAAGATGTGAGTTCCGTCAGGGCAGAGACCCCCGTC CTGACTCCCCAAC
104787 I S CCTAATGTTTGTATTACTGAGGATATCCTAATAGATATATTCATAATGAGGTTAGGATT
104787 P T S CGCGCCGAGGAGTACTGCTACTGGACAAY
104787 P G S ATGACGTGGCAGACCGTACTGCTACTGGACAY
104787 T T S ATACTTGTCCAGTAGCAGTACTATCCTAACCTCATTATGAATATATCTATTAGGATATCCTCAGTAATACAAACATTAGGGA
104787 T G S ATACTTGTCCAGTAGCAGTACGATCCTAACCTCATTATGAATATATCTATTAGGATATCCTCAGTAATACAAACATTAGGGA
104787 IS [TG] GTCTCATTGGACTCAGATGATCTATTGGGGAGTTCTAAAATACTTGTCCAGTAGCAGTAC[TG]ATCCTAACCTCATTATGAATATATCTATTAGGATATCCTCAGTAATA CAAACATTAGGGA
104789 I S AGGCAGCTGTCAATTCTCATGTCCCCCACT
104789 P C S ATGACGTGGCAGAGGTGGCCCAAGGTGGY
104789 P T S CGCGCCGAGGATGGCCCAAGGTGGY
104789 T C S ATGCCCACCTTGGGCCACGTGGGGGACATGAGAATTGACAGCTGCCTGG
104789 T T S ATGCCCACCTTGGGCCATGTGGGGGACATGAGAATTGACAGCTGCCTGG
104789 IS [CT] GCCCGAAAAAGAGCTTCTCACACGTGGCAGAGGTAACGTCAAGATGCCCACCTTGGGCCA[CT]GTGGGGGACATGAGAATTGACAGCTGCCTGGGCCATGTGCCTGCCTG GCTGGCAATACAA
104790 I A GCCGTCGCAGGGCCCAGCT
104790 P C A CGCGCCGAGGCGCTAATCCCGCCGY
104790 P G A ATGACGTGGCAGACGGCTAATCCCGCCGY
104790 T C A CGGCCGGCGGGGATTAGCGGCTGGGCCCTGCGACGGCCG
104790 T G A CGGCCGGCGGGGATTAGCCGCTGGGCCCTGCGACGGCCG
104790 IS [CG] CGAACGCCTCGGAGAAGAACTCCCAGCGGGGAGGGGCTCCTCGGCCGTCGCAGGGCCCAGC[CG]GCTAATCCCGCCGGCCGCAAGGAAGCGGAGAACTCACCGGACACCAGC ACTCGCGACTCC
104791 I A TGCATTGGATAATAGGCAATGAGATCTTTTGTTTTAACCATTTTTTAGCAGATACAAGA
104791 P T A CGCGCCGAGGTAAACATGAGCGTGTGAGY
104791 P C A ATGACGTGGCAGACCAAACATGAGCGTGTGAY
104791 T T A AAGTCTCACACGCTCATGTTTACTTGTATCTGCTAAAAAATGGTTAAAACAAAAGATCTCATTGCCTATTATCCAATGCAGA
104791 T C A AAGTCTCACACGCTCATGTTTGCTTGTATCTGCTAAAAAATGGTTAAAACAAAAGATCTCATTGCCTATTATCCAATGCAGA
104791 IS [TC] TCTGCATTGGATAATAGGCAATGAGATCTTTTGTTTTAACCATTTTTTAGCAGATACAAG[TC]AAACATGAGCGTGTGAGACTTAAGGCTGAGCTCTCTTTGCCTCTTCT TAGCTGCCAGCTG
104792 I S GGCTTCTAGAAGACTGTCCATCACACCTGTCTCATCT
104792 P C S ATGACGTGGCAGACGCCCTCTGTTATAAAGAACAY
104792 P T S CGCGCCGAGGACCCTCTGTTATAAAGAACAGY
104792 T C S CCATCTTGTCTCTTTATAACAGAGGCGATGAGACAGGTGTGATGGACAGTCTTCTAGAAGCCCT
104792 T T S CCATCTTGTCTCTTTATAACAGAGGGTGATGAGACAGGTGTGATGGACAGTCTTCTAGAAGCCCT
104792 IS [CT] TTTGCCATGCTGCTCTGGCTGAAGAGTTCACATCTCCATCTTGTTCTTTATAACAGAGGG[CT]GATGAGACAGGTGTGATGGACAGTCTTCTAGAAGCCCTGCAGTCAGG GGCAGCATTCCGA
104794 I S GAACACTTGTATTAATCCTTGGACAAAGATTCCAGGTCCCATGT
104794 P G S CGCGCCGAGGCTTACTTCCAACTTTGTGAACY
104794 P C S ATGACGTGGCAGACGTTACTTCCAACTTTGTGAACY
104794 T G S TCCAGTTCACAAAGTTGGAAGTAAGCATGGGACCTGGAATCTTTGTCCAAGGATTAATACAAGTGTTCCA
104794 T C S TCCAGTTCACAAAGTTGGAAGTAACCATGGGACCTGGAATCTTTGTCCAAGGATTAATACAAGTGTTCCA
104794 IS [GC] ACCGTCTGCCCTTTGAGCAAGGTGAAGACTTTGAATTCCAGTTCACAAAGTTGGAAGTAA[GC]CATGGGACCTGGAATCTTTGTCCAAGGATTAATACAAGTGTTCCAG GGCCCTGAGCCTCT
104795 I A GTGGTGAGCACCCTGTGGCTGGAGT
104795 P G A ATGACGTGGCAGACGCATCCAAGGCTCCTY
104795 P C A CGCGCCGAGGCCATCCAAGGCTCCTAY
104795 T G A GATTTAGGAGCCTTGGATGCCTCCAGCCACAGGGTGCTCACCACCG
104795 T C A GATTTAGGAGCCTTGGATGGCTCCAGCCACAGGGTGCTCACCACCG
104795 IS [GC] AGGAGGGGCCCTACTGGCTCCAGGTATGTCGGGCGGGTGGTGAGCACCCTGTGGCTGGAG[GC]CATCCAAGGCTCCTAAATCGGGAGGCACTTCAGGGGTGTCTTGGGG GGAAACACATCCTG
104796 I A CATGGAAGTTTGACGCGGCAAGCAA
104796 P T A CGCGCCGAGGTGCCTCTGTGAGTCTAAGGY
104796 P C A ATGACGTGGCAGACGGCCTGTGAGTCTAAGGY
104796 T T A TACCCCTTAGACTCACAGGCATGGCTCCCGCGTCAAACCTCCATGGC
104796 T C A TACCCCTTAGACTCACAGGCGTGCCTCCCGCGTCAAACCTCCATGGC
104796 IS [TC] GACTTCAGGGGTGTCTTGGGGGGAAACACATCCTGCCATGGAGGTTTGACGCGGGAGGCA[TC]GCCTGTGACTCTAAGGGGTAGGTCCCTTGGTGGGGGGCAGGGCAGT CTCAGGCCCCAAC
104797 I A CAACAAAGCCTCCACCCAGCCACATCTTGC
104797 P G A ATGACGTGGCAGACGGAAAACGATGGCCACTTY
104797 P T A CGCGCCGAGGTGAAAAGAATGGCCACTTY
104797 T G A CAAGAAGTGGCCATTCTTTTCCCAAGATGTGGCTGGGTGGAGGCTTTTGTTGCA
104797 T T A CAAGAAGTGGCCATTCTTTTCACAAGATGTGGCTGGGTGGAGGCTTTTGTTGCA
104797 IS [GT] TCTGCAGGTGTGCGAGCAGGAATTGCTTCTGCAACAAAAGCCTCCACCCAGCCACATCTTG[GT]GAAAAGAATGGCCACTTCTTGGGGCACAGTCTTTTTCATGCTGGTGG TATCCTGTGTTTG
104798 I S TCACTGATAATGCTTATCAGACAGGATTAACTTGGAAGAAATAGAT
104798 P C S ATGACGTGGCAGACGGAATGTGGGAAATAGAGGY
104798 P T S CGCGCCGAGGAGAATGTGGGAAATAGAGGAY
104798 T C S CTATTCCTCTATTTCCCACATTCCTCTATTTCTTCCAAGTTAATCCTGTCTGATAAGCATTATCAGTGAAT
104798 T T S CTATTCCTCTATTTCCCACATTCTTCTATTTCTTCCAAGTTAATCCTGTCTGATAAGCATTATCAGTGAAT
104798 IS [CT] CTGGATCATTAAGCCTCTCATTAACAACTCTAAAACTCTATTCCTCTATTTCCCACATTC[CT]TCTATTTCTTCCAAGTTAATCCTGTCTGATAAGCATTATCAGTGAATT TGGAAAGTAATA
104806 I S CATGTTGCCCCTCTGGAGACCAAGGAT
104806 P T S CGCGCCGAGGATCACAGAGATGAGTATTATAGACY
104806 P C S ATGACGTGGCAGACGTGACAGAGATGAGTATTATAGACY
104806 T T S ACAGGTCTATAATACTCATCTCTGTCATTCCCTTGGTCTCCAGAGGGGCAACATGAT
ENTPD5

FIGURE 129C

104806 T	C	S	ACAGGTCTATAATACTCATCTCTGTCACTCCCTTGGTCTCCACAGGGGCAACATGAT
104806 IS	[TC]		GAAAAAAGGATAAAATTGCCTTATTTCTAATTACAGGTCTATAATACTCATCTCTGTCA[TC]TCCCTTGGTCTCCAGAGGGGCAACATGATAGGTATTAAAATGTCCAT GGCTTCACTATGA
104808 I		S	TGTGTAATGAGAATGCTGTCTGTTGCTATAAGGATGTTAGCTTCCT
104808 P	G	S	ATGACGTGGCAGACAGAGATGTTGGGTGCY
104808 P	T	S	CGCGCCGAGGAAGAGATGTTGGGTGCTY
104808 T	G	S	ACACAGCACCCAACATCTCTGGGAAGCTAACATCCTTATAGCAACAGACACAGCATTCTCATTACACAAA
104808 T	T	S	ACACAGCACCCAACATCTCTTGGAAGCTAACATCCTTATAGCAACAGACACAGCATTCTCATTACACAAA
104808 IS	[GT]		CTTTATGTAGCAGCTATCTCTAGGAGCCCACCATTTTGATACACAGCACCCAACATCTCT[GT]GGAAGCTAACATCCTTATAGCAACAGACACAGCATTCTCATTACACAAAT AAAAACTTGTC
104811 I		S	AGCCCCTGTGGGTCTCTACCTGTAAGCT
104811 P	C	S	ATGACGTGGCAGACGGCTATCTCTATATCCAGAGCY
104811 P	T	S	CGCGCCGAGGAGCTATCTCTATATCCAGAGCY
104811 T	C	S	GATGGCTCTGGATATAGAGATAGCCGCTTACAGGTGAGACGCACAGGGGCTGT
104811 T	T	S	GATGGCTCTGGATATAGAGATAGCTGCTTACAGGTGAGAOGCACAGGGGCTGT
104811 IS	[CT]		CCAGCTGCGAGAATACCAGGACCTGCTCAATGTCAAGATGGCTCTGGATATAGAGATAGC[CT]GCTTACAGGTGAGACGCACAGGGGCTGTCACATGGTGAAGAAAGCT TGTGTTCCTACCAG
104812 I		S	CTTTCCTAACAGACTCTCTCTTGCCCCCAGATAAGACT
104812 P	C	S	ATGACGTGGCAGACGTTATCTGTGGCAATCGAAY
104812 P	T	S	CGCGCCGAGGATTATCTGTGGCAATCGAAY
104812 T	C	S	TGCCTTCGATTGCCACAGATAACGTCTTATCTGGGGGCAAGAAGAAGTCTGTTAGGAAAGCT
104812 T	T	S	TGCCTTCGATTGCCACAGATAATGTCTTATCTGGGGGCAAGAAGAAGTCTGTTAGGAAAGCT
104812 IS	[CT]		CTCTGGAGGTTTGAACAAGACCTTGGCTTCATCCACACTGCCTTCGATTGCCACAGATAA[CT]GTCTTATCTGGGGGGCAAGAAGAAGTCTGTTAGGAAAGCTGCTGAGG AAAGCTGCTAAGC
104815 I		A	GAGGTACAGTGTTATTATGCTTTTTGTTTTTCTACAGAACCCT
104815 P	A	A	CGCGCCGAGGATAAAGAGCATTTGAAGTAATGATTY
104815 P	G	A	ATGACGTGGCAGACGTAAAGAGCATTTGAAGTAATGATY
104815 T	A	A	TGGAAATCATTACTTCAAATGCTCTTTATGGGTTCTGTAGAAAAAACAAAAAGCATAATAACACTGTACCTCAA
104815 T	G	A	TGGAAGATCATTACTTCAAATGCTCTTTACGGGTTCTGTAGAAAAAACAAAAAGCATAATAACACTGTACCTCAA
104815 IS	[AG]		CATAAACTAAATACATTGAGGTACAGTGTTATTATGCTTTTTGTTTTTCTACAGAACCC[AG]TAAAGAGCATTTGAAGTAATGATTTCCAAATTGTTTTATTCACATG CTGACATACTTGCT
104817 I		S	CCAATCAGACTAAATCCACTAGGACAACAGAGTAACTAAGCAGCT
104817 P	T	S	CGCGCCGAGGATACCTGTTTGGTTCTGTTY
104817 P	C	S	ATGACGTGGCAGACGTACCTGTTTGGTTCTGTY
104817 T	T	S	AGCCAACAGAACCAAAACAGGTATGCTGCTAGTTACTGTGTTGTCCTAGTGGATTTAGTCTGATTGGTC
104817 T	C	S	AGCCAACAGAACCAAAACAGGTACGCTGCTAGTTACTGTGTTGTCCTAGTGGATTTAGTCTGATTGGTC
104817 IS	[TC]		GGACCTGAAATTAATAAGATTCGAACACCAGAGAAAAAGCCAACAGAACCAAAACAGGTA[TC]GCTGCTTAGTTACTGTGTTGTCCTAGTGGATTTAGTCTGATTGGTC ATCTTGGAATCCTG
104818 I		A	GGCTAGCACGGCCTGCCCTACACATT
104818 P	G	A	ATGACGTGGCAGACGCCTTGTCCCGGAAY
104818 P	A	A	CGCGCCGAGGACCTTGTCCCGGAACY
104818 T	G	A	CACAGTTCCGGGACAAGGCATGTGTAGGGCAGGCCGTGCTAGCCCA
104818 T	A	A	CACAGTTCCGGGACAAGGTATGTGTAGGGCAGGCCGTGCTAGCCCA
104818 IS	[GA]		CGAATGTGGTCCTGATTCCCAGGACTCAGGGCTGGGCTAGCACGGCCTGCCCTACACAT[GA]CCTTGTCCCGGAACTGTGCACAAGAGAGCTTCATAATGCATCGTGGCT TTGGAGTGAGCC
104820 I		A	GGAGCTCCCGCAGTGGGGGCT
104820 P	A	A	CGCGCCGAGGACACGGGGCTGGY
104820 P	G	A	ATGACGTGGCAGACGCACGGGGCTGGY
104820 T	A	A	AGCCCCAGCCCCGTGTGCCCCCACTGCGGGAGCTCCTG
104820 T	G	A	AGCCCCAGCCCCGTGGCCCCCCACTGCGGGAGCTCCTG
104820 IS	[AG]		GGGGTCCTGTGCGGGGCCTGGATTTGGGGCAGGGGGCCAGGAGCTCCCCGCAGTGGGGGC[AG]CACGGGGCTGGGGCTCTGAAGGTGGGGCCCGGGGGTCAGCGGGTAG GGTGGGCTCACGGC
104821 I		A	GCTTGATAGGGCGGGATTGGAACCAATGAAAGAT
104821 P	G	A	ATGACGTGGCAGACGGTCTGCTGTGTATGCY
104821 P	C	A	CGCGCCGAGGGCTCTGCTGTGTATGCY
104821 T	G	A	TGCAGCATACACAGCAGACCTCTTTCATTGGTTCCAATCCCCGCCTATCAAGCTG
104821 T	C	A	TGCAGCATACACAGCAGACGTCTTTCATTGGTTCCAATCCCCGCCTATCAAGCTG
104821 IS	[GC]		TCCGCAGGGAAGACGCTGGGACTTCCAGCTTGATAGGCGGGGATTGGAACCAATGAAAGA[GC]GTCTGCTGTGTATGCTGCAGCCAATAATAGCGGCCGAAGGAAGTGA CGTTTGCGGAAGTA
104823 I		S	GCTTAGAAAGCTCTCATCAGCTGGATGTGGGCATT
104823 P	C	S	ATGACGTGGCAGACGTGCCTTAAACATATACTCCCY
104823 P	T	S	CGCGCCGAGGATGCCTTAAACATATACTCCCY
104823 T	C	S	GGTGGGGAGTATATGTTTAAGGCAEATGCCCACATCCAGCTGATGAGAGCTTTCTAAGCTA
104823 T	T	S	GGTGGGGAGTATATGTTTAAGGCATATGCCCACATCCAGCTGATGAGAGCTTTCTAAGCTA
104823 IS	[CT]		CTCTCAGGGAGCTAGCTTACCCAAGCAGGTAGTTTTGGTGGGGAGTATATGTTTAAGGCA[CT]ATGCCCACATCCAGCTGATGAGAGCTTTCTAAGCTACTGCTCTAAAA AAGAGTTCTACTA
104826 I		A	CAGTACAACTACATTTACAACCCCAAAGTTGCATCAT
104826 P	A	A	CGCGCCGAGGAATTTCATTTGTCATTAAAAGCCY
104826 P	G	A	ATGACGTGGCAGACGATTTCATTTGTCATTAAAAGCCY
104826 T	A	A	TAAGGGCTTTTTAATGACAAATGAAATTTGATGCAACTTTGGGGTTGTAAATGTAGTTGTACTGAG
104826 T	G	A	TAAGGGCTTTTTAATGACAAATGAAATCTGATGCAACTTTGGGGTTGTAAATGTAGTTGTACTGAG
104826 IS	[AG]		ATTTCTCATCTTCAAAAGAATACTCAGTACAACTACATTTACAACCCCAAAGTTGCATCA[AG]ATTTCATTTGTCATTAAAAGCCTTAGAAATGTGACTATTGGGATG GTAAGTTCCAGTT
104828 I		A	GGGCGTTGGCTGTGATGGACTCTAGGTC
104828 P	T	A	CGCGCCGAGGTGCCCTACTTGACCTTCY
104828 P	G	A	ATGACGTGGCAGACGGCCTACTTGACCTTY
104828 T	T	A	CATAGAAGGTCAAGTAGGCCAACCTAGAGTCCATCACAGCCAACGCCCCA
104828 T	G	A	CATAGAAGGTCAAGTAGGCCAACCTAGAGTCCATCACAGCCAACGCCCCA
104828 IS	[TG]		GTGGGTGGGCATGGGGTGGATCTCCCAGCCTGGGGCGTTGGCTGTGATGGACTCTAGGT[TG]GCCCTACTTGACCTTCTATGCTCTTGTCTTGCCTTGATAGTGGGC AGACACCCCAGG
104829 I		A	GGAGAGGCCCGGGCTCCTCCA
104829 P	C	A	ATGACGTGGCAGACCTACACCCCCGGY
104829 P	T	A	CGCGCCGAGGTTACACCCCCGGY
104829 T	C	A	GGGCCGCGGGGGTGTAGGCAGGAGCCCGGGCCTCTCCGG
104829 T	T	A	GGGCCGCGGGGGTGTAAGGAGGAGCCCGGGCCTCTCCGG
104829 IS	[CT]		AGCCACGGCGCGGGGCTACCTGCTGCAGCCTCTCTTCTCCGGAGAGGCCCGGGCTCCTCC[CT]TACACCCCGCGGCCCAGCCCGGGTCCCAGGCTCCGGCTCCGGGTCAGC ATCCTCGCGC
104831 I		A	CGCCGGTGCAGCCCAATCCATA
104831 P	C	A	ATGACGTGGCAGACCGTCTACATGATGAAAGCGY
104831 P	T	A	CGCGCCGAGGTGTCTACATGATGAAAGCGY
104831 T	C	A	CGAAGCCTTTCATCATGTAGACAATGGGATTGGCTGCACCGGGCGTG
104831 T	T	A	CGAACGCTTTCATCATGTAGACAATGGGATTGGCTGCACCGGGCGTG

FIGURE 129C

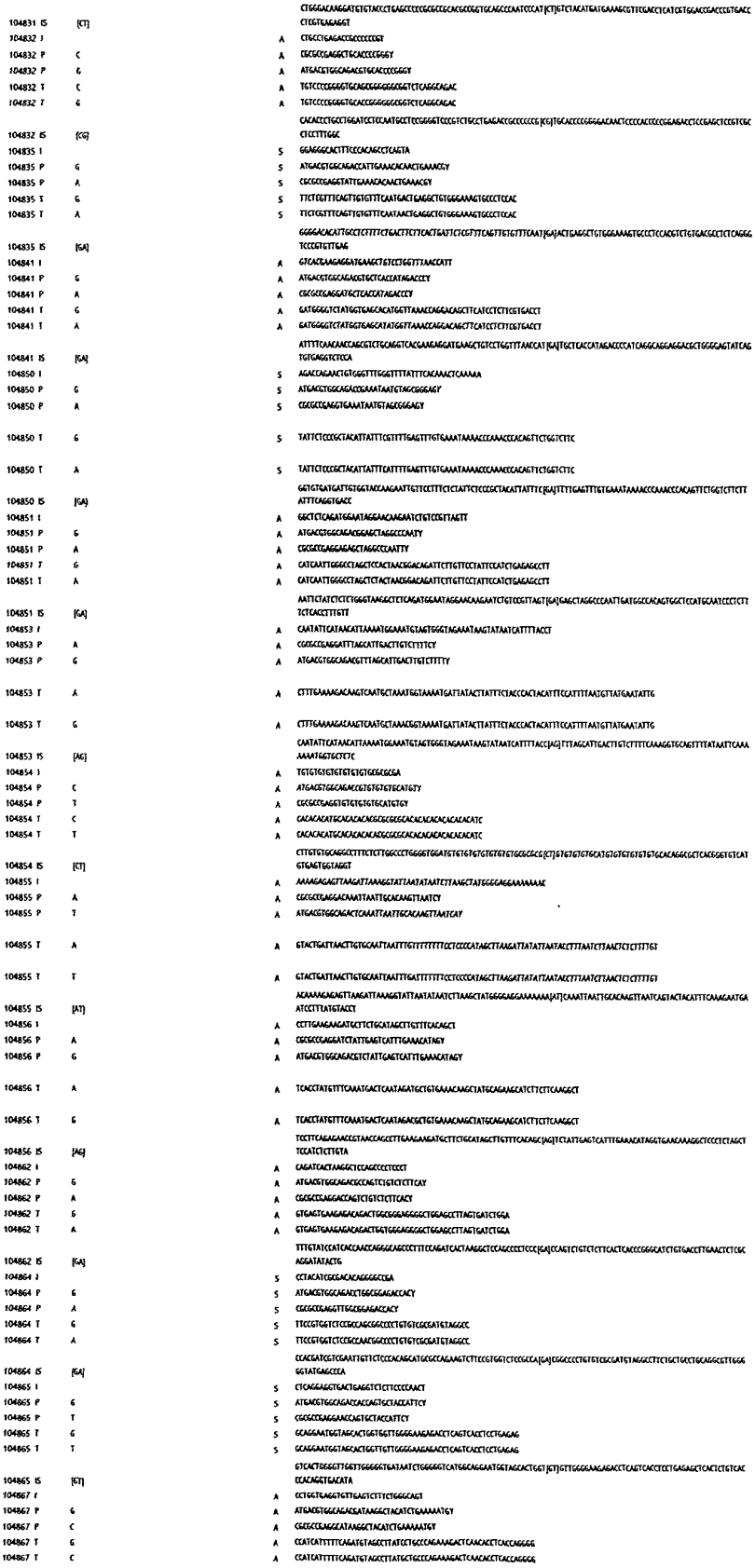


FIGURE 129C

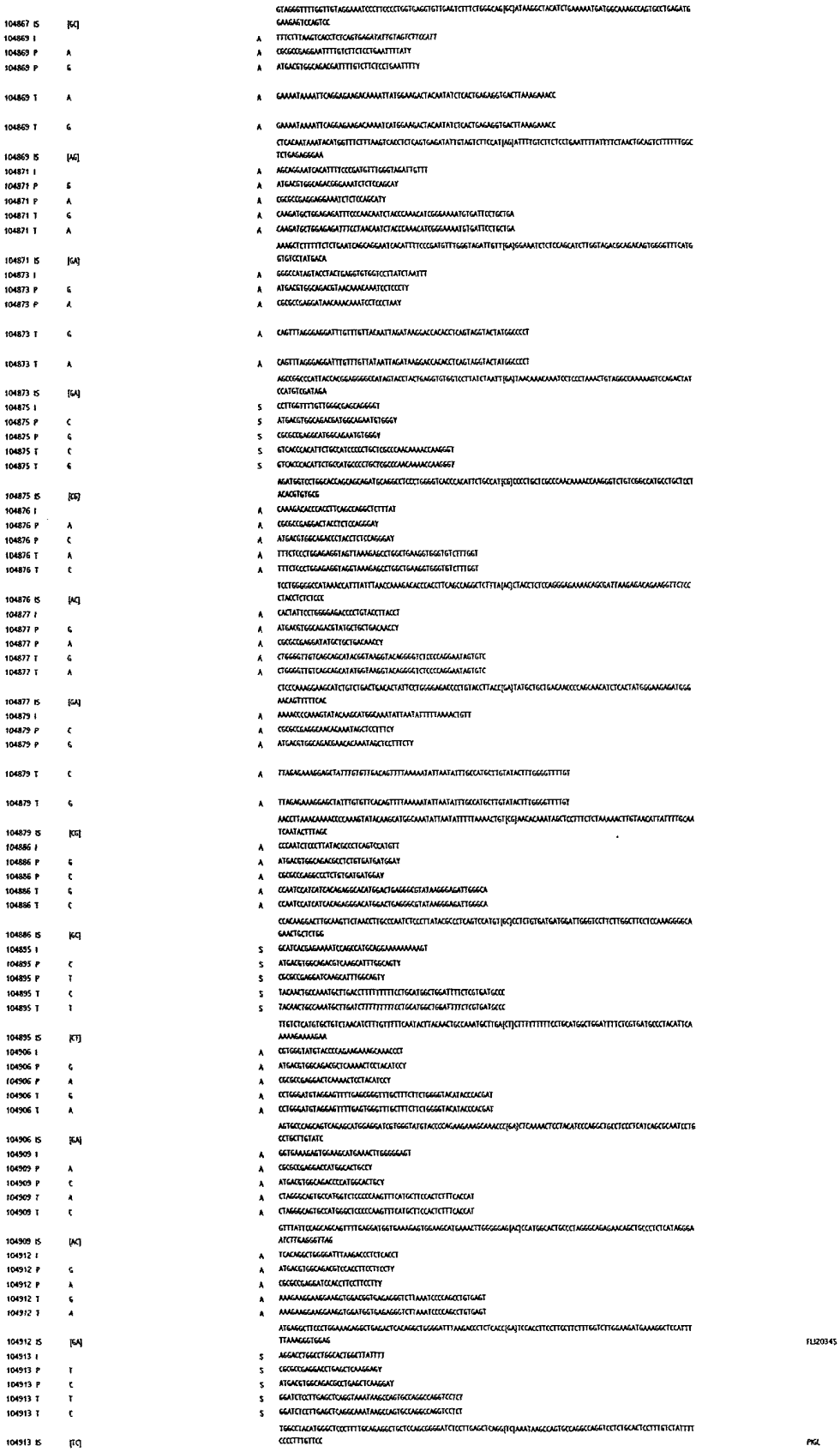


FIGURE 129C

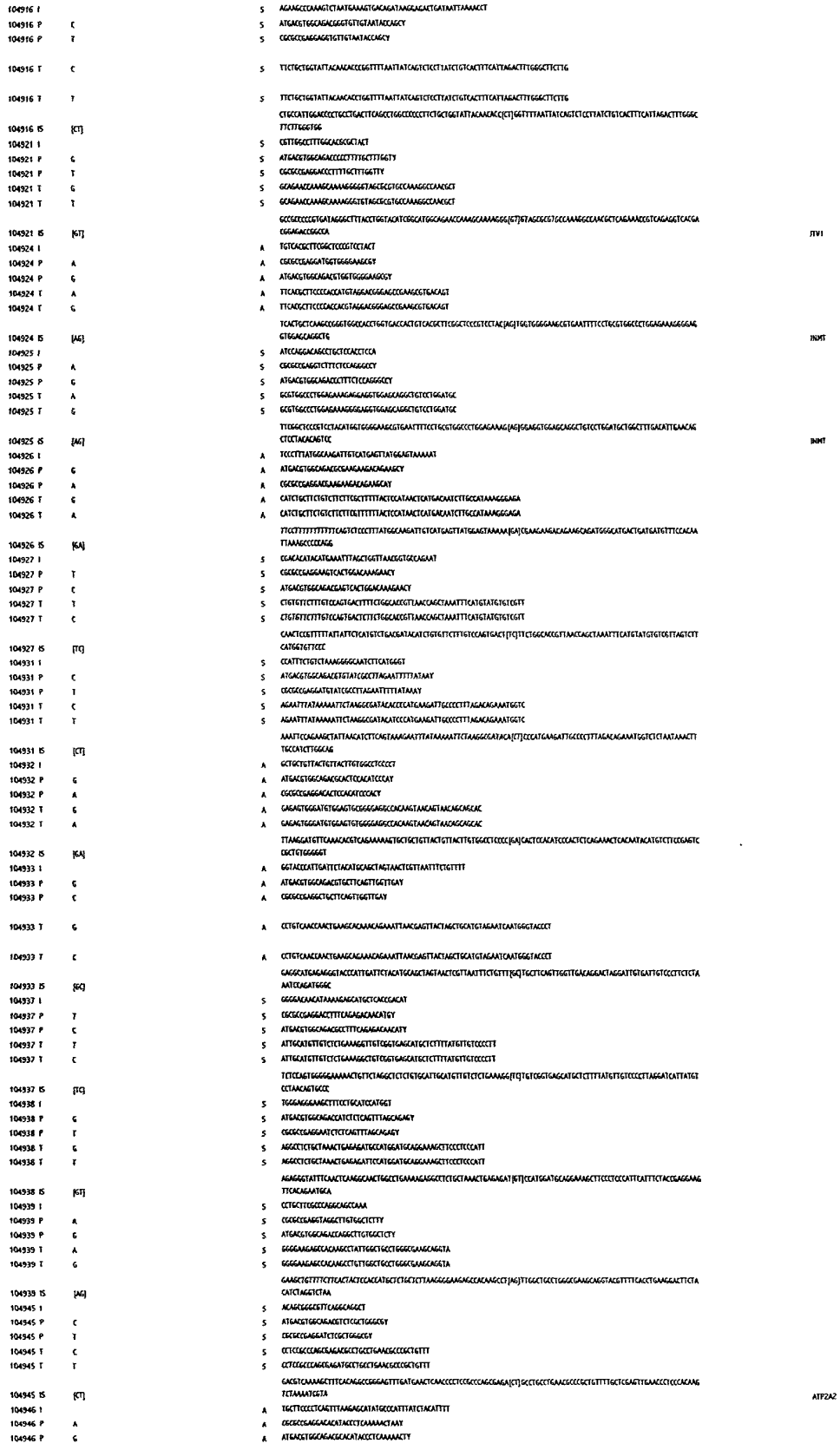


FIGURE 129C

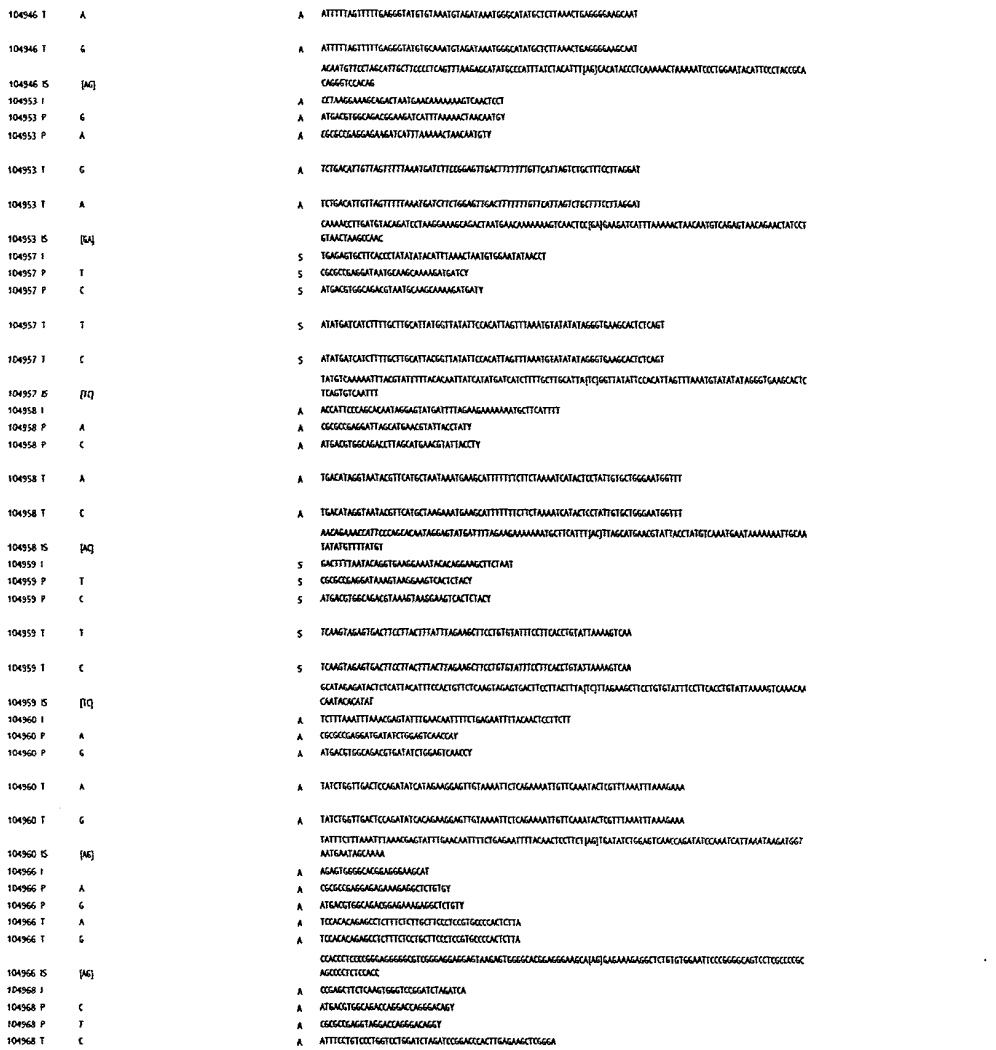
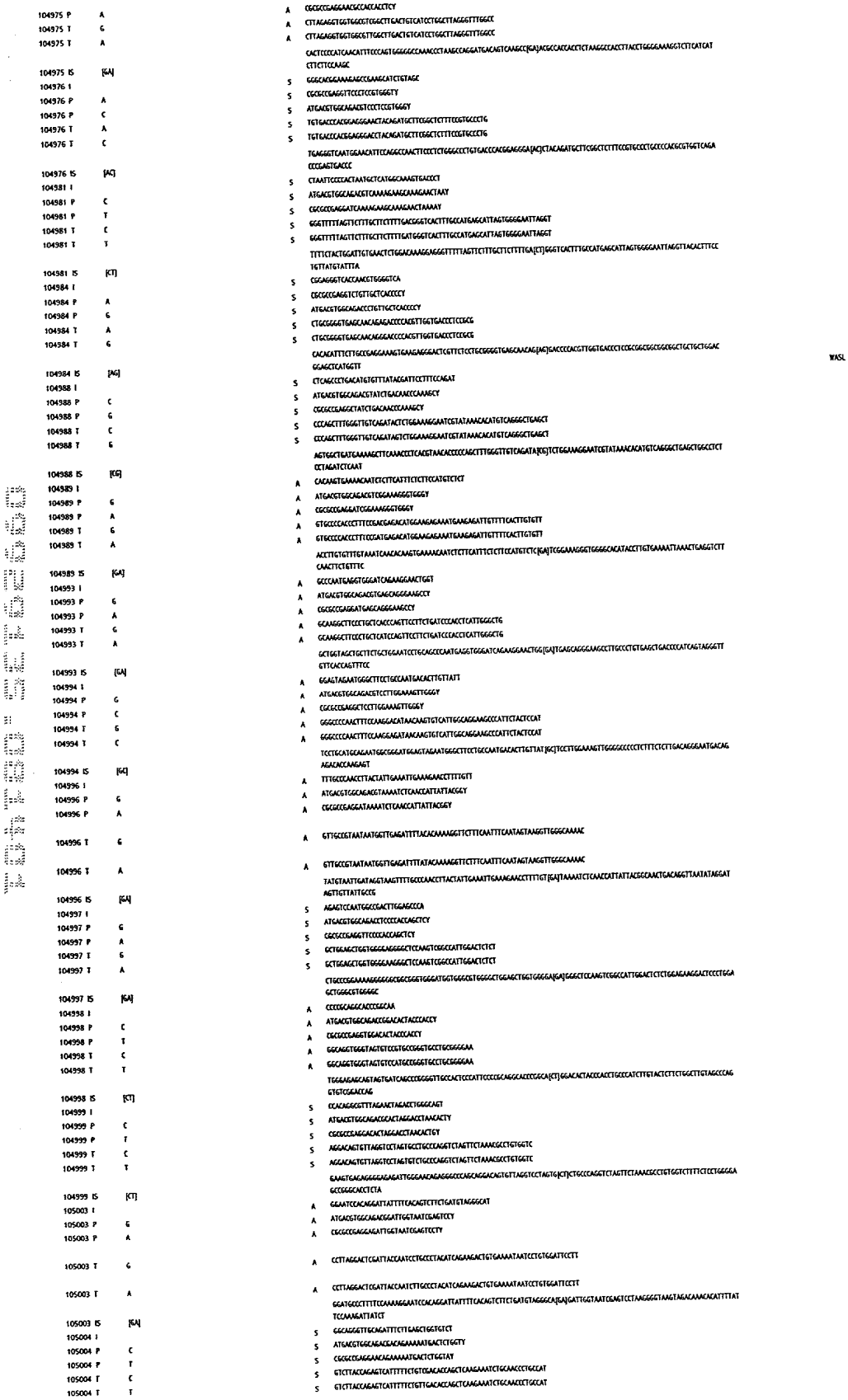
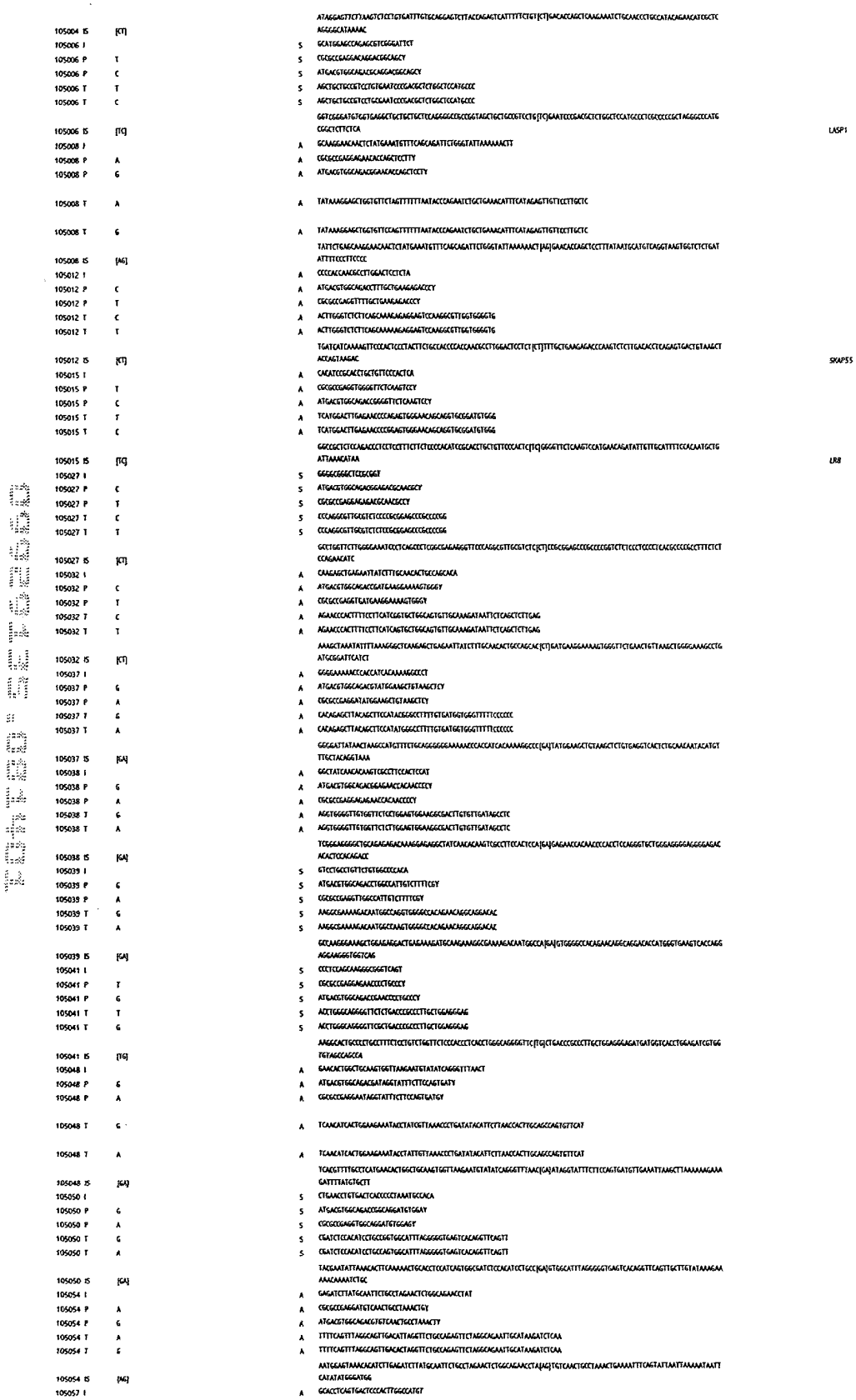


FIGURE 129C




ATAGGAGTTCTTAAGTCTCCTGTGATTTGTGCAGGAGTCTTACAGAGTCATTTTTCTGT[CT]GACACCAGCTCAAGAAATCTGCAACCCTGCCATACAGAACATCGCTC
105004 IS [CT] AGGGGCATAAAAC
105006 I S GCATGGAGCCAGAGCGTCGGGATTCT
105006 P T S CGCGCCGAGGACAGGACGGCAGCY
105006 P C S ATGACGTGGCAGACSCAGGACGGCAGCY
105006 T T S AGCTGCTGCCGTCCTGTGAATCCCGACGCTCTGGCTCCATGCCC
105006 T C S AGCTGCTGCCGTCCTGCGAATCCCGACGCTCTGGCTCCATGCCC
GGTCGGGATGTGCTGAGGCTGCTGGTGCTCCAGGGGCCCCCGGTAGCTGCTGCCGTCCTG[TC]GAATCCCGACGCTCTGGCTCCATGCCCTCGCCCCCGCTAGGGCCCATG
105006 IS [TC] CGGCTCTTCTCA LASP1
105008 I A GCAAGGAACAACTCTATGAAATGTTTCAGCAGATTCTGGGTATTAAAAAACTT
105008 P A A CGGCCCAGGCAGAACACCAGCTCCTTY
105008 P G A ATGACGTGGCAGACGGAACACCAGCTCCTY
105008 T A A TATAAAGGAGCTGGTGTTCTAGTTTTTTAATACCCAGAATCTGCTGAAACATTTCATAGAGTTGTTCCTTGCTC
105008 T G A TATAAAGGAGCTGGTGTTCCAGTTTTTTAATACCCAGAATCTGCTGAAACATTTCATAGAGTTGTTCCTTGCTC
TATTCTGAGCAAGGAACAACTCTATGAAATGTTTCAGCAGATTCTGGGTATTAAAAAACT[AG]GAACACCAGCTCCTTTATAATGCATGTCAGGTAAGTGGTCTCTGAT
105008 IS [AG] ATTTTCCCTTCCCC
105012 I A CCCCACCAAGGCCTTGGACTCCTCTA
105012 P C A ATGACGTGGCAGACCTTTGCTGAAGAGACCCY
105012 P T A CGCGCCGAGGTTTTGCTGAAGAGACCCY
105012 T C A ACTTGGGTCTCTTCAGCAAAGAGAGGAGTCCAAGGCGTTGGTGGGGTG
105012 T T A ACTTGGGTCTCTTCAGCAAAAGAGAGGAGTCCAAGGCGTTGGTGGGGTG
TGATCATCAAAAGTTCCCACTCCCTACTTCTGCCACCCCACCAACGCCTTGGACTCCTCT[CT]TTTGCTGAAGAGACCCAAGTCTCTTGACACCTCAGAGTGACTGTAAGCT
105012 IS [CT] ACCAGTAAGAC SKAP55
105015 I A CACATCCGCACCTGCTGTTCCCACTCA
105015 P T A CGCGCCGAGGTGGGGTTCTCAAGTCCY
105015 P C A ATGACGTGGCAGACCGGGGTTCTCAAGTCCY
105015 T T A TCATGGACTTGAGAACCCCAGAGTGGGAACAGCAGGTGCGGATGTGGG
105015 T C A TCATGGACTTGAGAACCCCGGAGTGGGAACAGCAGGTGCGGATGTGGG
GGCCGCTCTCCAGACCCTCCTCCTTTCTCTCCCCACATCCGCACCTGCTGTTCCCACTC[TC]GGGGTTCTCAAGTCCATGAACAGATATTGTTGCATTTTCCACAATGCTG
105015 IS [TC] ATTAAACATAA LRB
105027 I S GGGGCGGGCTCCGCGGT
105027 P C S ATGACGTGGCAGAGGGAGACGCAACGCY
105027 P T S CGCGCCGAGGAGAGACGCAACGCCY
105027 T C S CCCAGGCGTTGCGTCTCCCCGCGGAGCCCGCCCCGG
105027 T T S CCCAGGCGTTGCGTCTCTTCGCGGAGCCCGCCCCGG
GCCTGGTTCTTGGGCAAATCCCTCAGCCCTCGGCGAGAGGGTTCCCAGGCGTTGCGTCTC[CT]CCGCGGAGCCCGCCCCGGTCTTCTCCCTCCCCTCACGCCCCCGCCTTTCTCT
105027 IS [CT] CCAGAACATC
105032 I A CAACAGCTGAGAATTATCTTTGCAACACTGCCAGCACA
105032 P C A ATGACGTGGCAGACCGATGAAGGAAAAGTGGGY
105032 P T A CGCGCCGAGGTGATGAAGGAAAAGTGGGY
105032 T C A AGAACCCACTTTTCCTTCATCGGTGCTGGCAGTGTTGCAAAGATAATTCTCAGCTCTTGAG
105032 T T A AGAACCCACTTTTCCTTCATCAGTGCTGGCAGTGTTGCAAAGATAATTCTCAGCTCTTGAG
AAAGCTAAATATTTTAAAGGGCTAAGAGCTGAGAATTATCTTTGCAACACTGCCAGCAC[CT]GATGAAGGAAAAGTGGGTTCTGAACTGTTAAGCTGGGCAAAGCCTG
105032 IS [CT] ATGCGGATTCATCT
105037 I A GGGGAAAAACCCACCATCACAAAAGCCCT
105037 P G A ATGACGTGGCAGACGTATGGAAGCTGTAAGCTCY
105037 P A A CGCGCCGAGGATATGGAAGCTGTAAGCTCY
105037 T G A CACAGAGCTTACAGCTTCCATACGGGCCTTTTGTGATGGTGGGTTTTTCCCCCC
105037 T A A CACAGAGCTTACAGCTTCCATATGGGCCTTTTGTGATGGTGGGTTTTTCCCCCC
GGGGATTATAACTAAGCCATGTTTCTGCAGGGGGGAAAAACCCACCATCACAAAAGGCCC[GA]TATGGAAGCTGTAAGCTCTGTGAGGTCACTCTGCAACAATACATGT
105037 IS [GA] TTGCTACAGGTAAA
105038 I A GGCTATCAACACAAGTCGCCTTCCACTCCAT
105038 P G A ATGACGTGGCAGACGGAGAACCACAACCCCY
105038 P A A CGCGCCGAGGAGAGAACCACAACCCCY
105038 T G A AGGTGGGGTTGTGGTTCTCTGGAGTGGAAGGCGACTTGTGTTGATAGCCTC
105038 T A A AGGTGGGGTTGTGGTTCTCTTGGAGTGGAAGGCGACTTGTGTTGATAGCCTC
TCGGGAGGGGCTGCAGAGAGACAAGGAGAGGCTATCAACACAAGTCGCCTTCCACTCCA[GA]GAGAACCACAACCCCACCTCCAGGGTGCTGGGAGGGGAGGGGAGAC
105038 IS [GA] ACACTCCACAGACC
105039 I S GTCCTGCCTGTTCTGTGGCCCCACA
105039 P G S ATGACGTGGCAGACCTGGCCATTGTCTCTTTCGY
105039 P A S CGCGCCGAGGTTGCCCATTGTCTCTTTCGY
105039 T G S AAGCCGAAAAGACAATGGCCAGGTGGGGCCACAGAACAGGCAGGACAC
105039 T A S AAGCCGAAAAGACAATGGCCAAGTGGGGCCACAGAACAGGCAGGACAC
GCCAAGGGAAAGCTGGAGAGGACTGAGAAAGATGCAAGAAAGGCGAAAGACAATGGCCA[GA]GTGGGGCCACAGAACAGGCAGGACACCATGGGTGAAGTCACCAGG
105039 IS [GA] AGGAAGGGTGGTCAG
105041 I S CCCTCCAGCAAGGCCGGGTCAGT
105041 P T S CGCGCCGAGGAGAACCCCTGCCCY
105041 P G S ATGACGTGGCAGACCGAACCCCTGCCCY
105041 T T S ACCTGGGCAGGGGTTCTCTGACCCGCCCTTGCTGGAGGGAG
105041 T G S ACCTGGGCAGGGGTTCGCTGACCCGCCCTTGCTGGAGGGAG
AAGGCACTGCCCTTGCCTTTCTCCTGTCTGCTGGTTCTCCCACCCTCAGCTGGGCAGGGGTTC[TG]CTGACCCGCCCTTGCTGGAGGGAGATGATGGTCACCTGGAGATCGTGG
105041 IS [TG] TGTAGCCAGCCA
105048 I A GAACACTGGCTGCAAGTGGTTAAGAATGTATATCAGGGTTAACT
105048 P G A ATGACGTGGCAGACGATAGGTATTTCTTCCAGTGATY
105048 P A A CGCGCCGAGGAATAGGTATTTCTTCCAGTGATGY
105048 T G A TCAACATCACTGGAAGAAATACCTATGGTTAAACCCTGATATACATTCTTAACCACTTGCAGCCAGTGTTCAT
105048 T A A TCAACATCACTGGAAGAAATACCTATTGTTAAACCCTGATATACATTCTTAACCACTTGCAGCCAGTGTTCAT
TCACGTTTTGCTTCATGAACACTGGCTGCAAGTGGTTAAGAATGTATATCAGGGTTTAAC[GA]ATAGGTATTTCTTCCAGTGATGTTGAAATTAAGCTTAAAAAAGAAA
105048 IS [GA] GATTTTATGTGCTT
105050 I S CTGAACCTGTGACTCACCCCCTAAATGCCACA
105050 P G S ATGACGTGGCAGACCGGCAGGATGTGGAY
105050 P A S CGCGCCGAGGTGGCAGGATGTGGAGY
105050 T G S CGATCTCCACATCCTGCCCGGTGGCATTTAGGGGGTGAGTCACAGGTTCAGTT
105050 T A S CGATCTCCACATCCTGCCAGTGGCATTTAGGGGGTGAGTCACAGGTTCAGTT
TACGAATATTAAACACTTCAAAAACTGCACCTCCATCAGTGGCGATCTCCCAGTATCCTGCC[GA]GTGGCATTTAGGGGGTGAGTCACAGGTTCAGTTGCTTGTATAAAGAA
105050 IS [GA] AAACAAAATCTGC
105054 I A GAGATCTTATGCAATTCTGCCTAGAACTCTGGCAGAACCTAT
105054 P A A CGCGCCGAGGATGTCAACTGCCTAAACTGY
105054 P G A ATGACGTGGCAGACGTGTCAACTGCCTAAACTY
105054 T A A TTTTCAGTTTAGGCAGTTGACATTAGGTTCTGCCAGAGTTCTAGGCAGAATTGCATAAGATCTCAA
105054 T G A TTTTCAGTTTAGGCAGTTGACACTAGGTTCTGCCAGAGTTCTAGGCAGAATTGCATAAGATCTCAA
AATGGAGTAAACACATCTTGAGATCTTATGCAATTCTGCCTAGAACTCTGGCAGAACCTA[AG]TGTCAACTGCCTAAACTGAAAATTTCAGTATTAATTAAAAATAATT
105054 IS [AG] CATATATGGGATGG
105057 I A GCACCTCAGTGACTCCCACTTGGCCATGT
105057 P A A CGCGCCGAGGACGCAGTGTTTCTCCAY

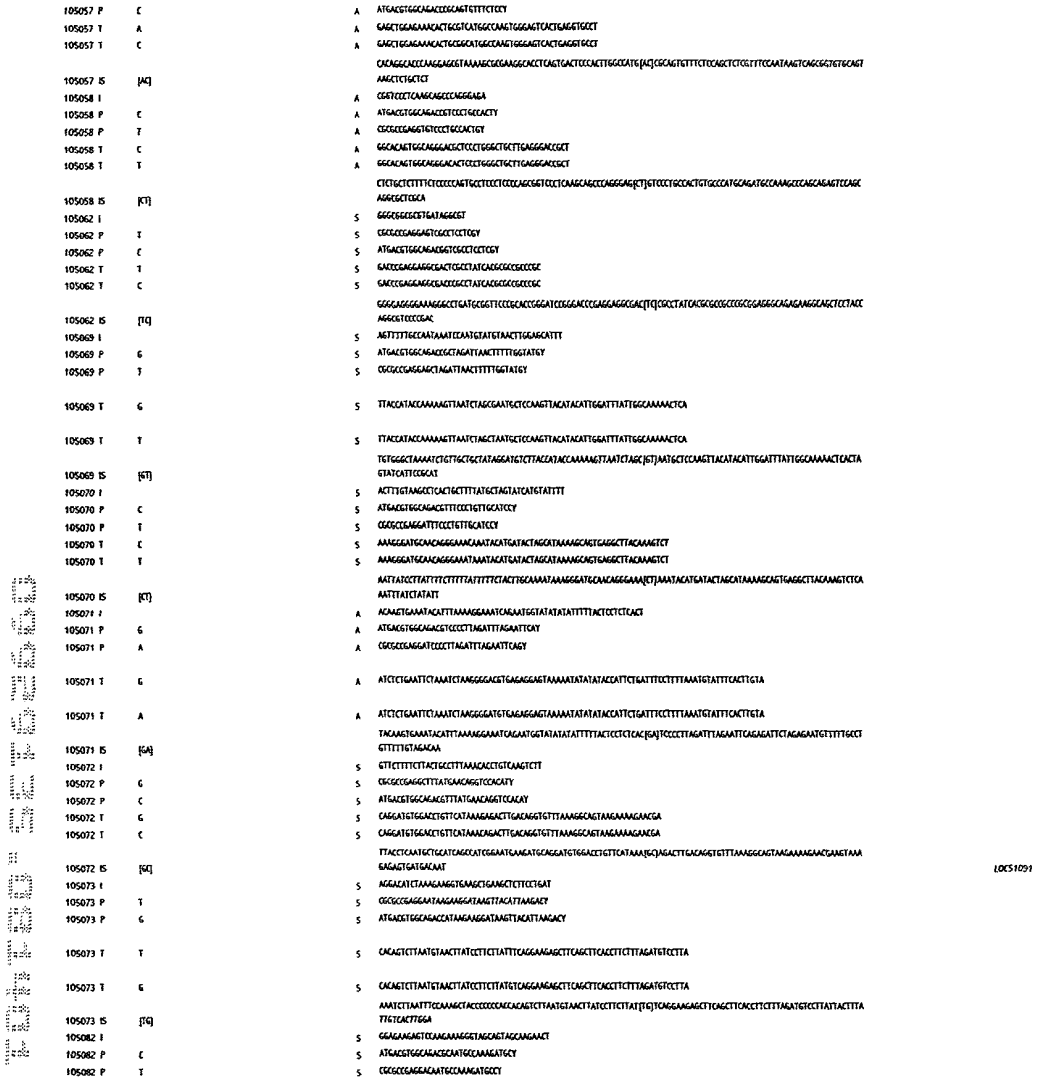

105057 P C A ATGACGTGGCAGACCGCAGTGTTCTCCY
105057 T A A GAGCTGGAGAAACACTGCGTCATGGCCAAGTGGGAGTCACTGAGGTGCCT
105057 T C A GAGCTGCAGAAACACTGCGCATGGCCAAGTGGGAGTCACTGAGGTGCCT
105057 IS [AC] CACAGGCACCCAAGGAGGTAAAAGCGCGAAGGCACCTCAGTGACTCCCACTTGGCCATG[AC]CGCAGTGTTTCTCCAGCTCTCGTTTCCAATAAGTCAGCGGTGTGCAGT AAGCTCTGCTCT
105058 I A CGGTCCCTCAAGCAGCCCAGGGAGA
105058 P C A ATGACGTGGCAGACCGTCCCTGCCACTY
105058 P T A CGCGCCGAGGTGTCCCTGCCACTGY
105058 T C A GGCACAGTGGCAGGGACGCTCCCTGGGCTGCTTGAGGGACCGCT
105058 T T A GGCACAGTGGCAGGGACACTCCCTGGGCTGCTTGAGGGACCGCT
105058 IS [CT] CTCTGCTCTTTTCTCCCCCCAGTGCCTCCCTCCCCAGCGGTCCCTCAAGCAGCCCAGGGAG[CT]GTCCCTGCCACTGTGCCCATGCAGATGCCAAAGCCCAGCAAGTCCAGC AGGCGCTCGCA
105062 I S GGGCGGGCGCTGATAGGCGT
105062 P T S CGCGCCGAGGAGTCGCCTCCTCGY
105062 P C S ATGACGTGGCAGACGGTCGCCTCCTCGY
105062 T T S GACCCGAGGAGGCGACTCGCCTATCACGCCCCCCCCCGC
105062 T C S GACCCGAGGAGGCGACCCCCCTATCACGCCCCCCCCGC
105062 IS [TC] GGGCAGGGGAAAGGCCTGATGCCGCTTCCCGCACCCGGGATCCCGGGACCCGAGGAGGCGACT[TC]CGCCTATCACGCGCCGCCCCCGCGAGGGCAGAGAAGGCAGCTCCTACC AGGCGCTCCCCGAC
105069 I S AGTTTTTGGCCAATAAATCCAATGTATGTAACTTGGAGCATTT
105069 P G S ATGACGTGGCAGACGCTAGATTAACTTTTGGTATGY
105069 P T S CGCGCCGAGGAGCTAGATTAACTTTTGGTATGY
105069 T G S TTACCATACCAAAAGTTAATCTAGCGAATGCTCCAAGTTACATACATTGGATTTATTGGCAAAAACTCA
105069 T T S TTACCATACCAAAAGTTAATCTAGCTAATGCTCCAAGTTACATACATTGGATTTATTGGCAAAAACTCA
105069 IS [GT] TGTGGGCTAAAATCTGTTGCTGCTATAGGATGTCTTACCATACCAAAAGTTAATCTAGC[GT]AATGCTCCAAGTTACATACATTGGATTTATTGGCAAAAACTCACTA GTATCATTCCGCAT
105070 I S ACTTTGTAAGCCTCACTGCTTTTATGCTAGTATCATGTATTTT
105070 P C S ATGACGTGGCAGACGTTTCCCTGTTGCATCCY
105070 P T S CGCGCCGAGGATTTCCCTGTTGCATCCY
105070 T C S AAAGGAATGCAACAGGGAAACAAATACATGATACTAGCATAAAGCAGTGAGGCTTACAAAGTCT
105070 T T S AAAGGAATGCAACAGGGAAATAAATACATGATACTAGCATAAAGCAGTGAGGCTTACAAAGTCT
105070 IS [CT] AATTATCCTTATTTTCTTTTTATTTTTCTACTTGCAAAATAAAGGGATGCAACAGGGAAA[CT]AAATACATGATACTAGCATAAAGCAGTGAGGCTTACAAAGTCTCA AATTTATCTATATT
105071 I A ACAAGTGAAATACATTTAAAAGGAAATCAGAATGGTATATATATTTTTACTCCTCTCACT
105071 P G A ATGACGTGGCAGACGTCCCCTTAGATTTAGAATTCAY
105071 P A A CGCGCCGAGGATCCCCTTAGATTTAGAATTCAGY
105071 T G A ATCTCTGAATTCTAAATCTAAGGGGACGTGAGAGGAGTAAAAATATATATACCATTCTGATTTCCTTTTAAATGTATTTCACTTGTA
105071 T A A ATCTCTGAATTCTAAATCTAAGGGGATGTGAGAGGAGTAAAAATATATATACCATTCTGATTTCCTTTTAAATGTATTTCACTTGTA
105071 IS [GA] TACAAGTCAAATACATTTAAAAGGAAATCAGAATGGTATATATATTTTTACTCCTCTCAC[GA]TCCCCTTAGATTTAGAATTCAGAGATTCTAGAGAATGTTTTTGCCT GTTTTTGTAGACAA
105072 I S GTTCTTTTCTTACTGCCTTTAAACACCTGTCAAGTCTT
105072 P G S CGCGCCGAGGCTTTATGAACAGGTCCACATY
105072 P C S ATGACGTGGCAGACGTTTATGAACAGGTCCACAY
105072 T G S CAGGATGTGGCACCTGTTCATAAAGAGACTTGACAGGTGTTTAAAGCCAGTAAGAAAAGAACGA
105072 T C S CAGGATGTGGCACCTGTTCATAAACAGACTTGACAGGTGTTTAAAGCCAGTAAGAAAAGAACGA
105072 IS [GC] TTACCTCAATGCTGCATCAGCCATCGGAATCAAGATGCAGGAATGTGGACCTGTTCATAAA[GC]AGACTTGACAGGTGTTTAAAGGCAGTAAGAAAAGAACGAAGTAAA GAGAGTGATGACAAT LOC51091
105073 I S AGGACATCTAAAGAAGGTGAAGCTGAAGCTCTTCCTGAT
105073 P T S CGCGCCGAGGAATAAGAAGGATAAGTTACATTAAGACY
105073 P G S ATGACGTGGCAGACCATAAGAAGGATAAGTTACATTAAGACY
105073 T T S CACAGTCTTAATGTAACTTATCCTTCTTATTTCAGGAAGAGCTTCAGCTTCACCTTCTTTAGATGTCCTTA
105073 T G S CACAGTCTTAATGTAACTTATCCTTCTTATGTCAGGAAGAGCTTCAGCTTCACCTTCTTTAGATGTCCTTA
105073 IS [TG] AAATCTTAATTTCCAAAGCTACCCCCCCCACCACAGTCTTAATGTAACTTATCCTTCTTAT[TG]TCAGGAAGAGCTTCAGCTTCACCTTCTTTAGATGTCCTTATTACTTTA TTGTCACTTGGA
105082 I S GGAGAAGAGTCCAAGAAAGGGTAGCAGTAGCAAGAACT
105082 P C S ATGACGTGGCAGACGCAATGCCAAAGATGCY
105082 P T S CGCGCCGAGGACAATGCCAAAGATGCCT
105082 T C S AGTGGGCATCTTTGGCATTGCGTTCTTGCTACTGCTACCCTTTCTTGGACTCTTCTCCCCA
105082 T T S AGTGGGCATCTTTGGCATTGTGTTCTTGCTACTGCTACCCTTTCTTGGACTCTTCTCCCCA
105082 IS [CT] CCAGTTCATCCCTTACACATGGCATCTACAAGACTTCCTCAGTGGGCATCTTTGGCATTG[CT]GTTCTTGCTACTGCTACCCTTTCTTGGACTCTTCTCCCCACTTCCTGCCC TCTTTCTGGAG
105092 I S CCTAGCAACATGTGGCAGCTACAGCAGGAT
105092 P T S CGCGCCGAGGAATACTGGATGCTCATGAAAY
105092 P C S ATGACGTGGCAGACGATACTGGATGCTCATGAAAY
105092 T T S TGAGTTTCATGAGCATCCAGTATTCCTGCTGTAGCTGCCACATGTTGCTAGGTA
105092 T C S TGAGTTTCATGAGCATCCAGTATCTCCTGCTGTAGCTGCCACATGTTGCTAGGTA
105092 IS [TC] TTGCCAGAAACAAAGGTAAGGGGCCAGGAGTGGCTGCTGAGTTTCATGAGCATCCAGTAT[TC]TCCTGCTGTAGCTGCCACATGTTGCTAGGTACTCAGCAATATTTTGT GTGGGGGGCAGGT
105093 I A GATGAAGACGGAAGTCCCAGGGCCTAGATCTCT
105093 P G A ATGACGTGGCAGACGGGTGAGTTGAGCAGAY
105093 P A A CGCGCCGAGGAGGTGAGTTGAGCAGAY
105093 T G A CAGGTGTGCTCAACTCACCGAAGATCTAGGCCCTGGGACTTCCGTCTTCATCAG
105093 T A A CAGGTGTGCTCAACTCACCTGAGATCTAGGCCCTGGGACTTCCGTCTTCATCAG
105093 IS [GA] ACGTTGAATTTGATTATGATGGGCCTCTGATGAAGACGGAAGTCCCAGGGCCTAGATCTC[GA]GGTGAGTTGAGCACACCTGAGTGGGGTATTTTGGAAAAGGGAAAA AGGCGCCTAAGAAGC
105098 I S GCGCCTCGCCGGCCTGCT
105098 P T S CGCGCCGAGGAGACACGTGGTCGY
105098 P C S ATGACGTGGCAGACGGAGACACGTGGTCGY
105098 T T S TCGGCGACCACGTGTCTCTGCAGGCCGCCGAGGCCGCGC
105098 T C S TCGGCGACCACGTGTCTCCGCAGGCCGCCGAGGCCGCGC
105098 IS [TC] CCCCGGGCCGGGAGGAAGCGGCCCTCAAGGTCGTGGCCGCTCGGCGACCACGTGTCTC[TC]GCAGGCCGCCGAGGAGGGCGCCGCACACGTGCCCGGGGCCCGGGGCCCGC AGCCCGCCCCGG
105114 I S GCTTTCCACATTGCAGTTCTACTGCCATGACAAAAGTTA
105114 P A S CGCGCCGAGGTGTCTGAAGGTGAATGAAGY
105114 P G S ATGACGTGGCAGACCGTCTGAAGGTGAATGAAGY
105114 T A S GTATCTTCATTCACCTCAGACAAACTTTTGTCATGGCAGTAGAACTGCAATGTGGAAAGCAA
105114 T G S GTATCTTTCATTCACCTCAGACGAACTTTTGTCATGGCAGTAGAACTGCAATGTGGAAAGCAA
105114 IS [AG] GATTATTTAATTTTTTAGAATTGAGGTGCTATCTTTGGTATCTTTCATTCACCTCAGAC[AG]AACTTTTGTCATGGCAGTAGAACTGCAATGTGGAAAGCAAAAAAGA TTCCTAATAAAGTC
105122 I A CGCCACCAATAACCTCCCAGGTAACCACATT
105122 P A A CGCGCCGAGGACTCTGACCCCTAAGGY
105122 P G A ATGACGTGGCAGACGCTCTGACCCCTAAGGY
105122 T A A AGGCCCTTAGGGGTCAGAGTATGTGGTACCTGGGAGGTTATTGGTGGCGTT

FIGURE 129C

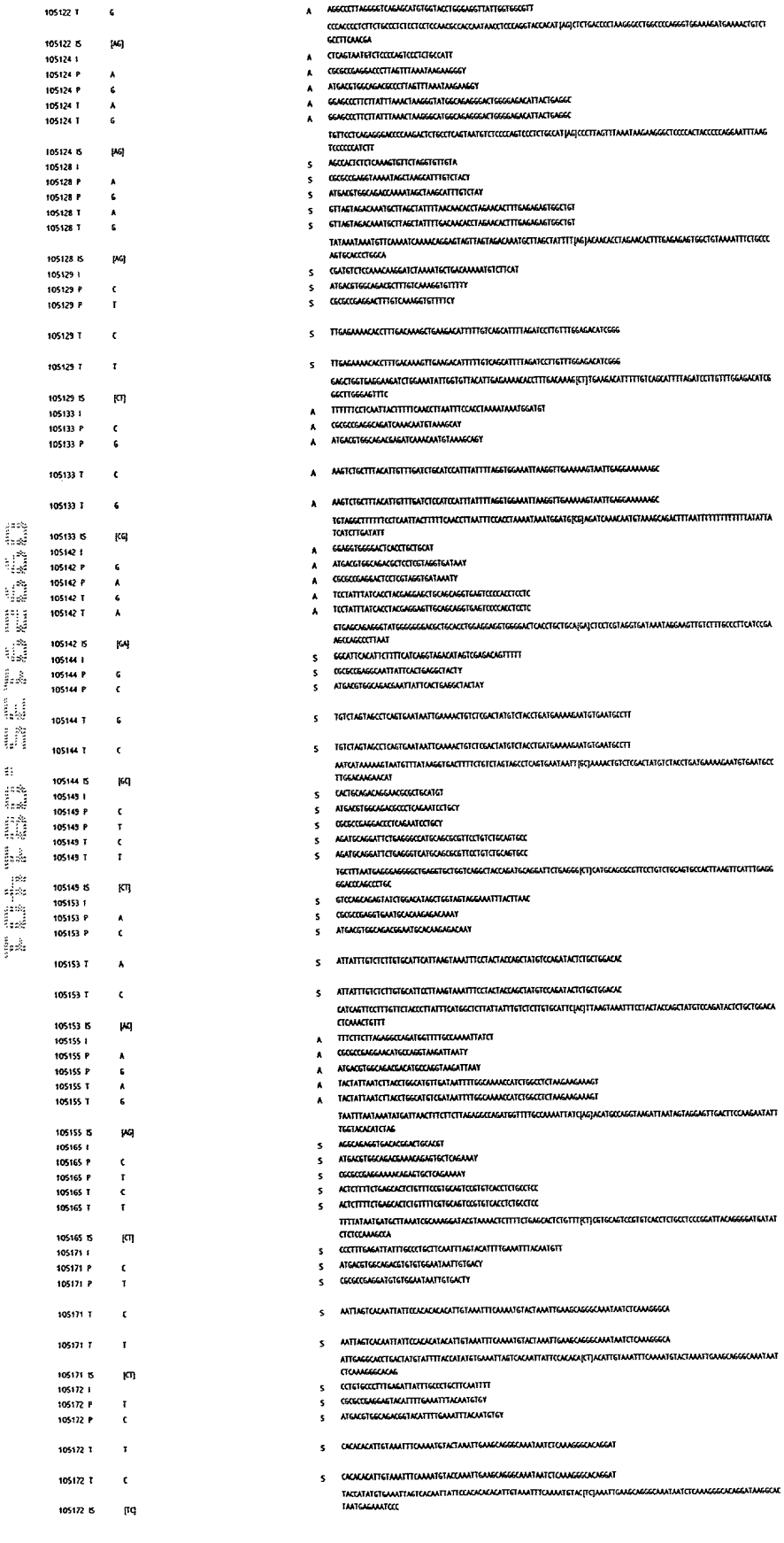
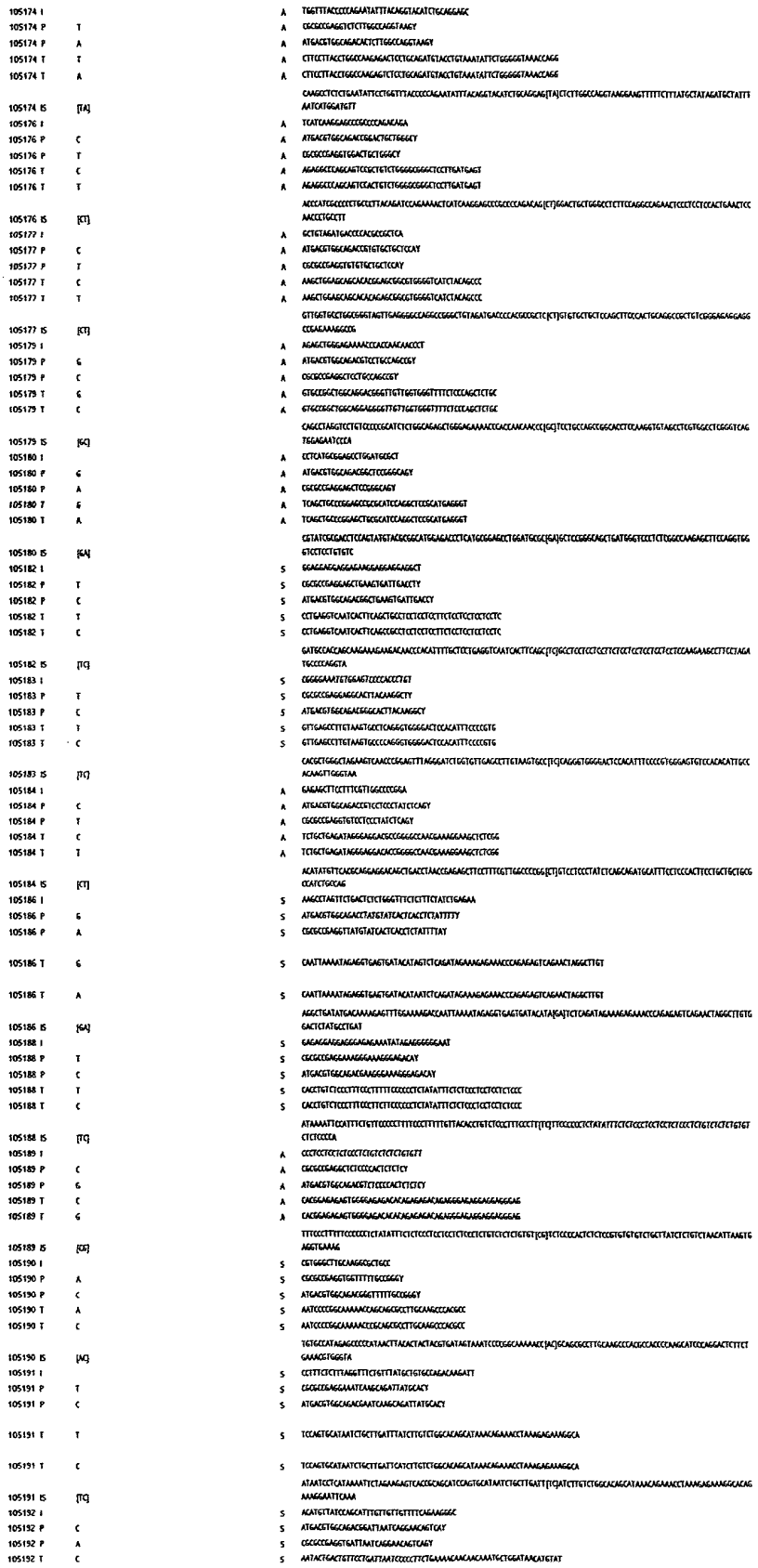


FIGURE 129C





105192 T A S AATACTGACTGTTCCTGATTAATCACCCTTCTGAAAACAACAACAAATGCTGGATAACATGTAT

TTAAAGAAAATAATTGGGAATTCCATTTCTTGCATTAATACTGACTGTCCTGATTAATTCACCCTTCTGAAAACAACAACAAATGCTGATAACATGTATAAAGTGT

105192 IS [CA] TCTTAAATGTGTTT

105195 I A CATTCCTTAAGCAAGTTAATCAAGACGTTGCATTCTTCAT

105195 P G A ATGACGTGGCAGACCTGTGCAAGTGTGGAGY

105195 P C A CGCGCCGAGGCTGTGCAAGTGTGGAGY

105195 T G A TTATCTCCACACTTGCACACTGAAGAATGCAACGTCTTGATTAACTTGCTTAAGGAATGTC

105195 T C A TTATCTCCACACTTGCACAGTGAAGAATGCAACGTCTTGATTAACTTGCTTAAGGAATGTC

TGAACTCTTACATTTTGTGACATTCCTTAAGCAGTTAATCAAGACGTTGCATTCTTCACGCTGTGCAACTGTGGAGATAAGTCAGGATGCATCTTTAGGAGATGAGG

105195 IS [GC] ATGGATCACAGCAG

105198 I A CTTGTCCTCATGCAGCGCCAGGTGATGA

105198 P T A CGCGCCGAGGTGTGGCCAACATGCY

105198 P C A ATGACGTGGCAGACCGTGGCCAACATGCY

105198 T T A ATCCGCATGTTGGCCACACATCACCTGGCGCTGCATGAGGACAAGGT

105198 T C A ATCCGCATGTTGGCCACGCATCACCTGGCGCTGCATGAGGACAAGGT

TTCCCAGGTGGGTCTCAGGTCCCAGAGCCCCACCTTGTCCTCATGCAGCCCCAGGTGATGTCTGTGGCCAACATGCGGATTCCAAGCCTCGAAGTCAGCGTCTTGTCCAAG

105198 IS [TC] AAGTAGCGGACC

105200 I C T S CTTAGGATGACTTGAGAAATAAATGTCAGCTCAGGCCTAATATCCAT

105200 P C S ATGACGTGGCAGACGCATCCTTTTACCATGAATTTY

105200 P T S CGCGCCGAGGACATCCTTTTACCATGAATTTGY

105200 T C S AGAACAAATTCATGGTAAAAGGATGCTGGATATTAGGCCTGAGCTGACATTTATTTCTCAAGTCATCCTAAGCC

105200 T T S AGAACAAATTCATGGTAAAAGGATGTTGGATATTAGGCCTGAGCTGACATTTATTTCTCAAGTCATCCTAAGCC

GACCTGCTAGAAGTTCCCCAGAGTGACAGCCAGGGAGAACAAATTCATGGTAAAAGGATGTCTTGGATATTAGGCCTGAGCTGACATTTATTTCTCAAGTCATCCTAAG

105200 IS [CT] CCCCTGCACTAAAT

105202 I T S TGGCAGCCAACCCTTCTGCAGGCT

105202 P T S CGCGCCGAGGAATGCAGGTGGAGAAAGY

105202 P C S ATGACGTGGCAGACGATGCAGGTGCAGAAAGY

105202 T T S GCCCCTTTCTCCACCTGCATTGCCTGCAGAAGGGTTGGCTGCCACT

105202 T C S GCCCCTTTCTCCACCTGCATCGCCTGCAGAAGGGTTGGCTGCCACT

CGACCAACCTGACCCCCCTCACCTGAGGCTGATCCCCCTGGCCCCTTTCTCCACCTGCATCTCGCCTGCAGAAGGGTTGGCCTGCCACTGTTACCAAACTTCCACACGGCAC

105202 IS [TC] AGTGGTAGTCA

105205 I S CGGCCCAGCGTGCCAGCTTGTCT

105205 P C S ATGACGTGGCAGACGCTGGCTGACAGGCY

105205 P T S CGCGCCGAGGACTGGCTGACAGGCY

105205 T C S GGCTGCCTGTCAGCCAGCGACAAGCTGGCACGCTGGGCCGTG

105205 T T S GGCTGCCTGTCAGCCAGTGACAAGCTGGCACGCTGGGCCGTG

GCCTGTGTGCTACGTGGCGCCCTCGCTCTGTGACACCCAGGTGGGCTGCCTGTCAGCCAGTCTGACAAGCTGGCACGCTGGGCCGTGCTGGGGCTGGGTGGTGCCCTGCTG

105205 IS [CT] GCCCACCTGGTG

105208 I S TCCTGGTGGGCGCGGCCGA

105208 P G S ATGACGTGGCAGACCCTCGCACCGCTAY

105208 P A S CGCGCCGAGGTCTCGCACCGCTACY

105208 T G S GGTCGTAGCGGTGCGAGCCGGCCCCGCCACCAGGAGC

105208 T A S GGTCGTAGCGGTGCGAGACGGCCCCCCCACCAGGAGC

GCGCCACCACATGTTATCCTTCACCATCACCAGCCCTCCCAGCTCGTAGCGGTGCGAG[GA]CGGCCCCGCCCACCAGGAGCCATACTTCTCCACCAGCCGGAAGCCTGG

105208 IS [GA] CGTGGTCTTCC

105213 I A CATCTACATCGATGGACGCCGGTGCTA

105213 P C A ATGACGTGGCAGACCTGTGGCTCCAAATGGY

105213 P T A CGCGCCGAGGTTGTGGCTCCAAATGGY

105213 T C A GGCGCCATTTGGAGCCACAGAGCACCGGCCGTCCATCGATGTAGATGGG

105213 T T A GGCGCCATTTGGAGCCACAAAGCACCGGCCGTCCATCGATGTAGATGGG

TGATTTCTTCATTGCCAATGAAGGGTCGACGGCCCATCTACATCGATGGACGCCGGTGCT[CT]TGTGGCTCCAAATGCCGCCTCAGCAACAACTCTGTGGTGGAGGTGAG

105213 IS [CT] CTGGGGAGGAGGC

105218 I A CCCTTGAGGGGACATATAAACCTGTTGGAGGGAT

105218 P A A CGCGCCGAGGACAGCTCAGAGGTGGY

105218 P G A ATGACGTGGCAGACGCAGCTCAGAGGTGGY

105218 T A A CTTTCCACCTCTGAGCTGTTCCCTCCAACAGGTTTATATGTCCCCTCAAGGGTG

105218 T G A CTTTCCACCTCTGAGCTGCTCCCTCCAACAGGTTTATATGTCCCCTCAAGGGTG

AACCTTGCCACACAGGTTGGAGGTACACCCTTGAGGGGACATATAAACCTGTTGGAGGGA[AG]CAGCTCAGAGGTGGAAAGCATGGACTGAGTATGGGAAGTAGCCACC

105218 IS [AG] AGTCTGGTGGGCTG

105224 I S GGCCCTCTTTTCCCTGGGCGCTT

105224 P G S ATGACGTGGCAGACCACCTCCCGACTCCY

105224 P T S CGCGCCGAGGAACCTCCCGACTCCY

105224 T G S GCGCGAGTCGGGAGGTGAGGCCCAGGCAAAAGAGGCCCG

105224 T T S GCGCGAGTCGGGAGGTTAGGCCCAGGCAAAAGAGGCCCG

GGGGCCCGCAACCCGAGCTGCAGCTGAAGCCAGCCTGCCAGGCGCGCAGTCGGCAGGTCGCAGTCAGCCCCAGGCAAAAGAGCGCCCGGCAGCAGAGGGTTCGCGAGAG

105224 IS [GT] GACGGAAGGATCGGC

105226 I S CAGAGAATGGACAGTTTACAGAGCCTCAAGAGTGGTT

105226 P G S ATGACGTGGCAGACCGTGACCAATCTGCCY

105226 P T S CGCGCCGAGGAGTGACCAATCTGCCCY

105226 T G S AAACGGGCAGATTGGTCACGACCACTCTTGAGGCTCTGTAAACTGTCCATTCTCTGGG

105226 T T S AAAGGGGCAGATTGGTCACTACCACTCTTGAGGCTCTGTAAACTGTCCATTCTCTGGG

AGAGAACCAGTTCAGACTTTGTGAGTAACTGAGAGGCTCTGAAAGGGCAGATTGGTCACTCTACCACTCTTGAGGCTCTGTAAACTGTCCATTCTCTGGGAATGCTTG

105226 IS [GT] AATTTGCTATTTTG

105227 I S GGCAATGAAAACAAGCAATGAAAGTTATGGGCAAGAAT

105227 P T S CGCGCCGAGGAAAGCAAAAGTTCACTCATY

105227 P C S ATGACGTGGCAGACGGAAGCAAAAGTTCACTCAT

105227 T T S GAAAATGAGTGAACTTTTGCTTCTTTCTTCCCATAACTTTCATTGCTTGTTTTCATTGCCCT

105227 T C S GAAAATGAGTGAACTTTTGCTTCCTTCTTCCCATAACTTTCATTGCTTGTTTTCATTGCCCT

TGTCACCTATGCCTTTTGTGTGGCTATAGATTGGGGCAGAAATGAGTGAACTTTTGCTTCTTGTTCTTCCCATAACTTTCATTGCTTGTTTTCATTGCCTATTTAGTCTA

105227 IS [TC] AGTAAGTAAGC

105229 I S TGTCAGCTCATGCATTGGGGGGTGGAATTT

105229 P T S CGCGCCGAGGAGGTCTCCTAAGACTCTAAAAY

105229 P G S ATGACGTGGCAGACCGGTCTCCTAAGACTCTAAY

105229 T T S CTCCTTTTAGAGTCTTAGGAGACCTAATTCCACCCCCCAATGCATGAGCTGACAAC

105229 T G S CTCCTTTTAGAGTCTTAGGAGACCGAATTCCACCCCCCAATGCATGAGCTGACAAC

AAAGTAAGTTAAGTATCTACCATTTATAACAAAATGCTCCTTTTAGAGTCTTAGGAGACCCTG[AA]TTCCACCCCCCAATGCATGAGCTGACAACATCATGATCAAACATA

105229 IS [TG] TGCAGGGTTAGTG

105231 I A CCACTTTGCCATACTCTGGAAATCGATCATCTGGAAAAAGAT

105231 P G A ATGACGTGGCAGACCAAGGAAAAAATAAAAATAGGCAAAAY

105231 P A A CGCGCCGAGGAAAGGAAAAATAAAAATAGGCAAAAAY

105231 T G A GGACTTTTGCCTATTTTTATTTTTCCTTCTCTTTTTCCAGATGATCGATTTCCAGAGTATGGCAAAGTGCAG

105231 T A A GGACTTTTGCCTATTTTTATTTTTCCTTTCTTTTTCCAGATGATCGATTTCCAGAGTATGGCAAAGTGGAG

CCATAAGAAAATACAAACTCCACTTTGCCATACTCTGGAAATCGATCATCTGGAAAAAGA[GA]AAGGAAAAAATAAAAATAGGCAAAAAGTCCCAAAAAGGATTCCATA

105231 IS [CA] AAAAGTTTTCTTCTA

105237 I A CAAAACCAAATGTGGTCTATTACCAGGGTAAGGTATACAT

105237 P C A CGCGCCGAGGCACTATAGCGTATAAATAGAAAGATCY
105237 P G A ATGACGTGGCAGACGACTATAGCGTATAAATAGAAAGATCY

105237 T C A AAAGGATCTTTCTATTTATACGCTATAGTGTGTATACCTTACCCTGGTAATAGACCACATTTGGTTTTGAT

105237 T G A AAAGGATCTTTCTATTTATACGCTATAGTCTGTATACCTTACCCTGGTAATAGACCACATTTGGTTTTGAT

105237 IS [CG] ATATGATTTTGTAAGATGAATCAAAACCAAATGTGCTCTATTACCAGGGTAAGGTATACA[CG]ACTATAGCGTATAAATAGAAAGATCCTTTCTGCGTATACTTAAAAA ATATATCAACAGAC

105238 I S TGCTGCAATTCATCAATAATGGAATAATATTTGGAAACACTGAAAGAGGTCAAAAATTCT

105238 P T S CGCGCCGAGGAAATTTAAATCACATACCAGGTAATAY

105238 P C S ATGACGTGGCAGACGAATTTAAATCACATACCAGGTAATY

105238 T T S AAACTATTACCTGGTATGTGATTTAAATTTGAATTTTTGACCTCTTTCAGTGTTTCCAAATATTATTCCATTATTGATGAATTGCAGCAC

105238 T C S AAACTATTACCTGGTATGTGATTTAAATTCGAATTTTTGACCTCTTTCAGTGTTTCCAAATATTATTCCATTATTGATGAATTGCAGCAC

105238 IS [TC] TAGGAGGAAAAAAAATCTTTTTCAAACCATTTAAACTATTACCTGGTATGTGATTTAAATT[TC]GAATTTTTGACCTCTTTCAGTGTTTCCAAATATTATTCCATTATTGA TGAATTGCAGCAC

105239 I A CACAAAACAATGTTCAGGTAGAATTGCTATGATACAGCTAAGCCTTAAACT

105239 P A A CGCGCCGAGGATGTTTAAAAACAGAAGAGACCY

105239 P G A ATGACGTGGCAGACGTGTTTAAAAACAGAAGAGACCY

105239 T A A AACAGGTCTCTTCTGTTTTTAAACATGTTTAAGGCTTAGCTGTATCATAGCAATTCTTACCTGAACATTGTTTTGTGCA

105239 T G A AACAGGTCTCTTCTGTTTTTAAACAGTTTAAGGCTTAGCTGTATCATAGCAATTCTTACCTGAACATTGTTTTGTGCA

105239 IS [AG] CTAGTACTGCACAAAACAATGTTCAGGTAAGAATTGCTATGATACAGCTAAGCCTTAAAC[AG]TGTTAAAAACAGAAGAGACCTGTTATGTATTCTCTCAATTCTAGG TTTGTGAAAAAGTG

105241 I S CAGGCTTATTTCTATTAGCAGTCTGATTGCTGCAAGCAATCTJ

105241 P C S ATGACGTGGCAGACGAATTTGCCACCCCAAY

105241 P T S CGCGCCGAGGAAATTTGCCACCCCAATY

105241 T C S TTAAATTGGGGTGGCAAATTCAGATTGCTTGCAGCAATCAGACTGCTAATAGAAATAAGCCTGAT

105241 T T S TTAAATTGGGGTGGCAAATTTAGATTGCTTGCAGCAATCAGACTGCTAATAGAAATAAGCCTGAT

105241 IS [TT] TAAATACTGTTCTTTCCTTGCAGGATACTTACAAAGCTTTTAAATTGGGGTGGCAAATT[CT]AGATTGCTTGCAGCAATCAGACTGCTAATAGAAATAAGCCTGATAA GCCATCTGTACACA

105243 I A GCATGGTGAGGCCTGAGAAGCACCAGGT

105243 P G A ATGACGTGGCAGACGAATAGTTCCTCTCCCAGTY

105243 P A A CGCGCCGAGGAAATAGTTCCTCTCCCAGTY

105243 T G A ACGGACTGGGAGAGGAACTATTCCCTGGTGCTTCTCAGGCCTCACCATGCCA

105243 T A A ACGGACTGGGAGAGGAACTATTTCCTGGTGCTTCTCAGGCCTCACCATGCCA

105243 IS [GA] CGGGGCAGCCTCAGAGGTGGGTGGGCAGGCATGGCATGGTGAGGCCTGAGAAGCACCAGG[GA]AATAGTTCCTCTCCCAGTCCGTGAAGGTGCCTGAAAGCCACTGTC AGCACCACTTTCCA

105250 I C S CCCAGCACGCGCCGTCCCT

105250 P G S CGCGCCGAGGCGCCCTCACCTGCY

105250 P C S ATGACGTGGCAGACGCCCTCACCTGCY

105250 T G S GCCGGCAGGTGAGGCCGGGACGCGGCGTGCTGGGGA

105250 T C S GCCGGCAGGTGAGGCCGGGACGCGGCGTGCTGGGGA

105250 IS [GC] GCCCGGGAGGTGTTCAAGACCCAGGGGGTGATCAAGTACATGGGGCCGCAGGTGAGGGC[GC]GGGACGGCCGCGTGCTGGGCAGGGACCCGGGGCCTGTGGCCGGGCT CCTTTCCGCCTCA

105255 I A S AGGAAACACTTTGGAAAGGTAAAATCAGGTTACTTCTAAATCAAAATTAAAT

105255 P G S CGCGCCGAGGCCTATACCAAGCCAAGAGY

105255 P C S ATGACGTGGCAGACGCTATACCAAGCCAAGAGY

105255 T G S CTTCCTCTTGGCTTGGTATAGGTTTAATTTTGATTTAGAAGTAACCTGATTTTACCTTTCCAAAGTGTTTCCTTA

105255 T C S CTTCCTCTTGGCTTGGTATAGCTTTAATTTTGATTTAGAAGTAACCTGATTTTACCTTTCCAAAGTGTTTCCTTA

105255 IS [GC] TTCTGAGATTTCTAAAGGAAGCTCAGCTAGATCCATCTTCTTCCTCTTGGCTTGGTATAG[GC]TTTAATTTTGATTTAGAAGTAACCTGATTTTACCTTTCCAAAGTGTT TCCTTAATTTAAT

105256 I S GCCTGTGCCTTATCTTTGGTGGAGTGAAAAAATTTGAGCA

105256 P G S ATGACGTGGCAGACCAGTGAAGCCAAATCGTAY

105256 P A S CGCGCCGAGGTAGTGAAGCCAAATCGTAACY

105256 T G S GTAAGTTACGATTTGGCTTCACTGGCTCAAATTTTTTCACTCCACCAAAAGATAAGGCACAGGCCC

105256 T A S GTAAGTTACGATTTGGCTTCACTAGCTCAAATTTTTTCACTCCACCAAAAGATAAGGCACAGGCCC

105256 IS [GA] ATCAGCAAAGAGCCAGGTATGCTGCATGCTGCTTGCTGTAAGTTACGATTTGGCTTCACT[GA]GCTCAAATTTTTTCACTCCACCAAAAGATAAGGCACAGGCCCGTTTG TCCAATCAAGTTT FL120171

105257 I S TCCAAGGTTGCCCCAGCACTGGC

105257 P T S CGCGCCGAGGAGTCACCCATCAGGGY

105257 P A S ATGACGTGGCAGACTGTCACCCATCAGGGY

105257 T T S AGGGCCCTGATGGGTGACACCGGTGCTGGGGCAACCTTGGACA

105257 T A S AGGGCCCTGATGGGTGACACCGGTGCTGGGGCAACCTTGGACA

105257 IS [TA] CAAAGTAGCTCCCCTTGGTGATAGCCAGAGAAAACCGCAATAAGGGCCCTGATGGGTGAC[TA]CCGGTGCTGGGGCAACCTTGGACAGACTCCTTCCCACGAACCGTCT AGCTTCCTCGAGG

105262 I S CTGGAAAACCTAGAGTGACAAATGCAAAGGAATTACTATTTAACTATACT

105262 P T S CGCGCCGAGGAAAGTACAAGAGGCTGAGTY

105262 P C S ATGACGTGGCAGACGAAGTACAAGAGGCTGAGY

105262 T T S GCTTACTCAGCCTCTTGTACTTTGTATAGTTAAATAGTAATTCCTTTGCATTTGTCACTCTAGGTTTCCAGTT

105262 T C S GCTTACTCAGCCTCTTGTACTTCGTATAGTTAAATAGTAATTCCTTTGCATTTGTCACTCTAGGTTTCCAGTT

105262 IS [TC] AAGCCAGAACTAGCATATTGATCTTCTAAGGATTCCAAGCTTACTCAGCCTCTTGTACTT[TC]GTATAGTTAAATAGTAATTCCTTTGCATTTGTCACTCTAGGTTTTCC AGTTTCTTAATGC

105264 I A S GTTTGGGGAGTTGGCTGGTATGGGTGGAAATA

105264 P T A CGCGCCGAGGTTGGGCATTAGGGGCY

105264 P C A ATGACGTGGCAGACCTGGGCATTAGGGGCY

105264 T T A TTATGCCCCTAATGCCCAGATTTCCACCCATACCAGCCAACTCCCCAAACCC

105264 T C A TTATGCCCCTAATGCCCAGATTTCCACCCATACCAGCCAACTCCCCAAACCC

105264 IS [TC] GCCAGGTGTGGGCACTGGCAGGGCTTAGGGTTTGGGGAGTTGGCTGGTATGGGTGGAAAT[TC]TGGGCATTAGGGGCATAACAATTCAGGAAGGAAAGGAGAGTATGT GTTGAGGATAAAGGA

105265 I A S GTCTTACAGGCAAGATTATATCTGTAGGAATTTTCAGGTTTACTTTTTATTTTAAATTCA

105265 P T A CGCGCCGAGGTTCAAACTACAGACAAATACCTY

105265 P C A ATGACGTGGCAGACCTCAAACTACAGACAAATACCTY

105265 T T A TGAAAGGTATTTGTCTGTAGTTTGAAGAATTTAAAATAAAAAGTAAACCTGAAAATTCCTACAGATATAATCTTGCCTGTAAGACA

105265 T C A TGAAAGGTATTTGTCTGTAGTTTGAGGAATTTAAAATAAAAAGTAAACCTGAAAATTCCTACAGATATAATCTTGCCTGTAAGACA

105265 IS [TC] TGTCTTACAGGCAAGATTATATCTGTAGGAATTTTCAGGTTTACTTTTTATTTTAAATTC[TC]TCAAACTACAGACAAATACCTTTCAAGAATGCTTACAAAATAATTTT TTTCAGTCCAATT

105266 I A S AATTCTTCAAACTACAGACAAATACCTTTCAAGAATGCTTACAAAATAATTTTTTTCT

105266 P A A CGCGCCGAGGAGTCCAATTATTGTTCTTTGCY

105266 P C A ATGACGTGGCAGACCGTCCAATTATTGTTCTTTGCY



105266 T A A GTCAGCAAAGAACAATAATTGGACTGAAAAAAATTATTTTGTAAGCATTCTTGAAAGGTATTTGTCTGTAGTTTGAAGAATTTA

105266 T C A GTCAGCAAAGAACAATAATTGGACGGAAAAAAATTATTTTGTAAGCATTCTTGAAAGGTATTTGTCTGTAGTTTGAAGAATTTA

105266 IS [AC] ITAAATTCTTCAAACTACAGACAAATACCTTCAAGAATGCTTACAAAATAAATTTTTTTC[AC]GTCCAATTATTGTTCTTTGCTGACCCCTATCCTCCCATCCCACCTTTG TTTAATCATTGC

105269 I S TGTTTTGCAAAGACTGTTACTTACCTGGAGTTTCAACCAC

105269 P C S ATGACGTGGCAGACGGTTAGGGCAATTTTAAATGAGY

105269 P A S CGCGCCCAGGTGTTAGGGCAATTTTAAATGAGY

105269 T C S AATACTCATTTAAAATTGCCCTAACCTGGTTGAAACCCGAGGTAAGTAACAGTCTTTGCAAAACAGC

105269 T A S AATACTCATTTAAAATTGCCCTAACATGGTTGAAACCCGAGGTAAGTAACAGTCTTTGCAAAACAGC

105269 IS [EA] CTTTCTGAAGCTGTAAATGTGTTATTGAAGGAACAAATACTCATTTAAAATTGCCCTAAC[CA]TGGTTGAAACCCGAGGTAAGTAACAGTCTTTGCAAAACAGCAAACT AAGAAAAAAAATTA

105270 I A GTGAGGTCACAAGGACCTCACAATGCCGAA

105270 P C A ATGACGTGGCAGACCGTACTGGGGTTTTATGTTY

105270 P T A CGCGCCGAGGTGTACTGGGGTTTTATGTTCY

105270 T C A CATAGAACATAAAACCCCAGTACGTCGGCATTGTGAGGTCCTTGTGACCTCACCT

105270 T T A CATAGAACATAAAACCCCAGTACATCGGCATTGTGAGGTCCTTGTGACCTCACCT

105270 IS [CT] GTTTCCCAGGTAACCATATCTATTTGAAAGGTGAGGTCACAAGGACCTCACAATGCCGA[CT]GTACTGGGGTTTTATGTTCTATGTTCCAACTTTAAAAGGGAAAGAA AGCAACAAGTCTAC

105271 I S GCTTTGTGGGGTGTTGCCAATATTTATGAAGAAGCAGTCTACTT

105271 P T S CGCGCCGAGGATCCTACCATCATATGTGAAATAGY

105271 P C S ATGACGTGGCAGAGGTCCTACCATCATATGTGAAAT

105271 T T S ACCTCTATTTCACATATGATGGTAGGATAGTAGACTGCTTCTTCATAAATATTGGCAACACCCACAAAGCCA

105271 T C S ACCTCTATTTCACATATGATGGTAGGACAGTAGACTGCTTCTTCATAAATATTGGCAACACCCACAAAGCCA

105271 IS [TC] GTTTTATTTGACCTGAAGATGAAAGTTAATGACTCTATTTCACATATGATGGTAGGA[TC]AGTAGACTGCTTCTTCATAAATATTGGCAACACCCACAAAGCCAGTA TTTTGTGTTGCTT

105273 I A GCTGCACAGAGCTGACCCCGTAGGGT

105273 P A A CCGCCCGAGGAGATGAAGGAATGTGGGY

105273 P C A ATGACGTGGCAGACCGATGAAGGAATGTGGGY

105273 T A A TCTGCCCACATTCCTTCATCTCCCTACGGGGTCAGCTCTGTGCAGCTA

105273 T C A TCTGCCCACATTCCTTCATCGCCCTACGGGGTCAGCTCTGTGCAGCTA

105273 IS [AC] AAAGTCCTGTACAGAACGACAGATGTGGGAACTTAGCTGCACAGAGCTGACCCCGTAGGG[AC]GATGAAGGAATGTGGGCAGAGTCTGAGGAGGGGACCCCACCGAAT ATTTCGGTCCTGGC

105274 I S CAGTGGGATGCCTCTCTCCCCTCCCA

105274 P G S ATGACGTGGCAGACACACCCAGACTCTGAY

105274 P A S CGCGCTGAGGTACACCCAGACTCTGAGY

105274 T G S TGCTCTCAGAGTCTGGGTGTGGGGAGGGCAGAGAGGCATCGCACTGCA

105274 T A S TGCTCTCAGAGTCTGGGTGTAGGGAGGGCAGAGAGGCATCGCACTGCA

105274 IS [GA] TCAAGATCTGAGGAGATGCCATCCACACTGAGGGGCTCCGTGCTCTCAGAGTCTGGGTGT[GA]GGCAGGGGAGAGAGGCATCGCACTGCACCCATCTGTTGCCAGAGCCT CCCCACCCACCTC

105275 I A GGCAGGGGCAAGGGGATCAGGGT

105275 P G A ATGACGTGGCAGAGCCCCTGGTGCACTY

105275 P C A CGCGCCGAGGCCCCTGGTGCACTY

105275 T G A CCCCAGTGCACCAGGGCCCCTGATCCCCTGCCCCTGCCCA

105275 T C A CCCCAGTGCACCAGGGGCCCTGATCCCCTGCCCCTGCCCA

105275 IS [GC] GGAACTTGCCAGACCTCCTCCACCCCAGCCAGCCCTGGGCAGGGGCAAGGGGATCAGGG[GC]CCCTGGTGCACTGGGGATGCCACAGCCACACCTCAGGCCTGGGAACTG GCCTCCCAGGCT

105276 I A GCTCCGGGGCAGGTGGGGTCT

105276 P A A CGCGCCGAGGAGAGAAGGTGTGGCACY

105276 P G A ATGACGTGGCAGACGAGAAGGTGTGGCAY

105276 T A A GGGAGTGCCACACCTTCTCTGACCCCACCTGCCCCGGAGCCC

105276 T G A GGGAGTGCCACACCTTCTCCGACCCCACCTGCCCCGGAGCCC

105276 IS [AG] GAAGGAGTCGCTGACCAGAAGGAAAGTGCAGCACCGAGAGGGCTCCGGGGCAGGTGGGGTC[AG]GAGAAGGTGTGGCACTCCCGAGCCTGGAGCTGCTCTTCGGGGCTGG GCGAGATGGGTGGG PLA2G4B

105279 I S CGTATTAATTAAAATCACATCTTTAGATTGATCTTTTGTTCTTTTTGCAGTGAACT

105279 P G S ATGACGTGGCAGACCCTGGGCTAAATTTATTGTTGY

105279 P T S CGCGCCGAGGACTGGGCTAAATTTATTGTTGY

105279 T G S AAAACAACAATAAATTTAGCCCAGGTTCACTGCAAAAAAGAACAAAAGATCAATCTAAAGATGTGATTTTAATTAATACGTA

105279 T T S AAAACAACAATAAATTTAGCCCAGTGTTCACTGCAAAAAAGAACAAAAGATCAATCTAAAGATGTGATTTTAATTAATACGTA

105279 IS [GT] AGCACAGTACCTTGCATTTTACCATCAGTAATAACAAAAAGAACAATAAATTTAGCCCAG[GT]GTTCACTGCAAAAAAGAACAAAAGATCAATCTAAAGATGTGATTTT AATTAATACGTAGG

105280 I A CCGTCGGATGCCTTCCAAACACTTCAGCATT

105280 P C A CGCGCCGAGGCCTGACCTCTCCTCGY

105280 P G A ATGACGTGGCAGACGCTGACCTCTCCTCGY

105280 T C A GAAACGAGGAGAGGTCAGGATGCTGAAGTGTTTGGAAGGCATCCGACGGAA

105280 T G A GAAACGAGGAGAGGTCAGCATGCTGAAGTGTTTGGAAGGCATCCGACGGAA

105280 IS [CG] CAGTGGAGAGTGAGGGCCTCAGCCGTCATTCCGTCGGATGCCTTCCAAACACTTCAGCAT[CG]CTGACCTCTCCTCGTTTCCGGAAAAATCCTTAAGCTCACTTCCCCAGG CCAGATGGGAAC

105282 I A CCTCTCCCCACGCCGCGCGC

105282 P G A ATGACGTGGCAGACGGCTGCACTTGGTCY

105282 P T A CGCGCCGAGGTGCTGCACTTGGTCGY

105282 T G A CCAGCGACCAAGTGCAGCCGCCGCGCCGTGGGGAGAGGAC

105282 T T A CCAGCGACCAAGTGCAGCAGCGCCGCGCGTGGGGAGAGGAC

105282 IS [GT] CTGGGCGGCCGCCTTTTCCAGTTCCAGGTGTGCAAAAGTGTCCTCTCCCCACGCGCGGGG[GT]GCTGCACTTGGTCGCTGGCTCCGAGATCGCGCGGGCCGCCGGAAGCC CAAGACGGTACC MASA

105283 I A TGTCTGCCTTCCCAGCCTCCAACCCA

105283 P T A CGCGCCGAGGTGGTTCCCCTACTCTCAY

105283 P C A ATGACGTGGCAGACCGGTTCCCCTACTCTCY

105283 T T A GGGATGAGAGTAGGGGAACCAGGGTTGCAGGCTGGGAAGGCAGACAAG

105283 T C A GGGATGAGAGTAGGGGAACCGGGGTTGCAGGCTGGGAAGGCAGACAAG

105283 IS [TC] CTCTCAGCAGCACATGCCTTGCACAGGACAGCTCTTGTCTGCCTTCCCAGCCTCCAACCC[TC]GGTTCCCCTACTCTCATCCCTGGGCTCCGTGCTCAGTGGGCCAACCCTG TCTCCCAATAG

105284 I A ACCTGATCCTGGCGGCACTCCTTTCAAGT

105284 P A A CGCGCCGAGGAACAGAAAAGGGCATCCY

105284 P G A ATGACGTGGCAGACGACAGAAAAGGGCATCCY

105284 T A A CTGGGGATCCCCTTTTCTGTTCTTGAAAGCAGTGCTGCCAGGATCAGGTTT

105284 T G A CTGGGGATCCCCTTTTCTGTCCTTGAAAGCAGTGCTGCCAGGATCAGGTTT

105284 IS [AG] TGCTCCTCTGCCAAAATATTCCAATGGTCCAAACCTGATCCTGGGGGCACTCCTTTCAAG[AG]ACAGAAAGGGGATCCCCAGCTCTCAAGGAAGAAAGTGGTCAAGTCT GAGTGATGGGAAC

105285 I S GCTGAGTGGGGGTCTCAAGCCACTTTAGGAAAT

105285 P T S CGCGCCGAGGAAATGAAGCATGATGTCACAY

105285 P C S ATGACGTGGCAGACGAATGAAGCATGATGTCACY

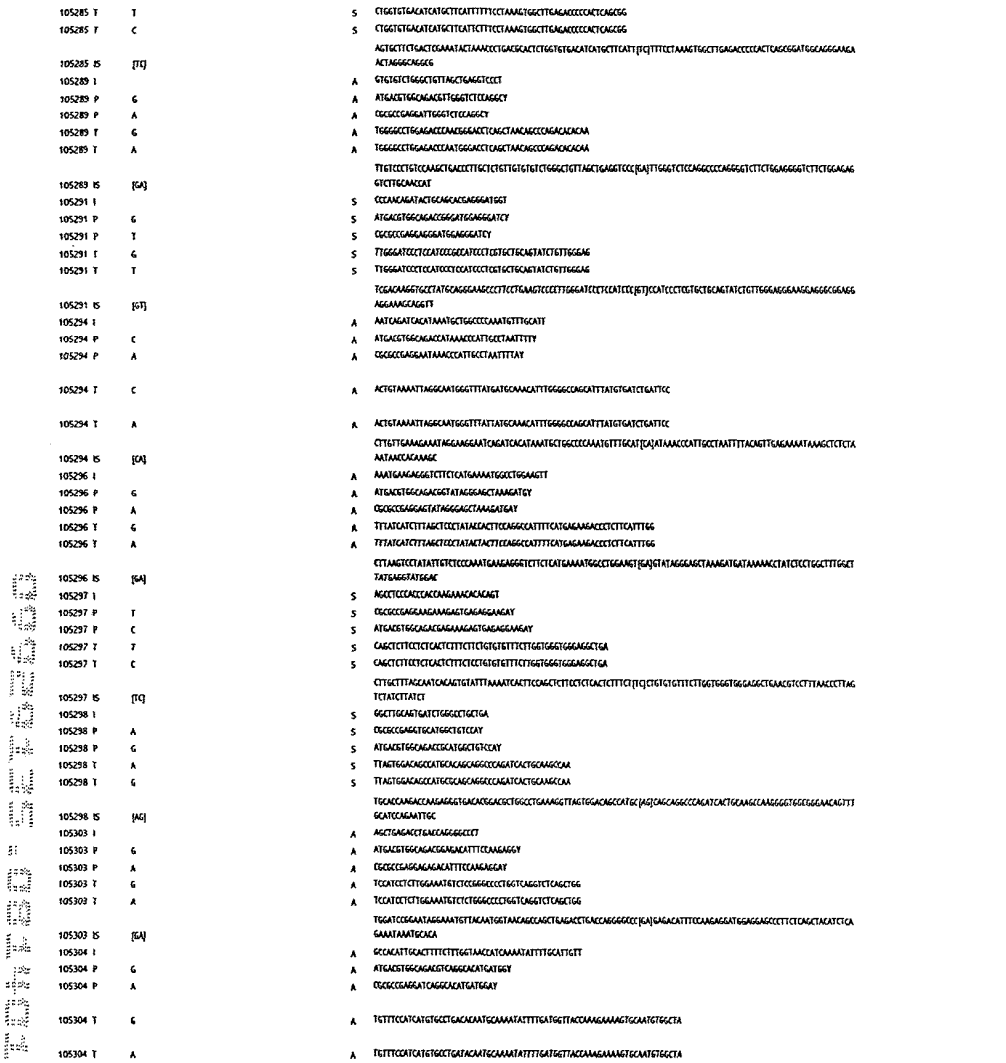


FIGURE 129C

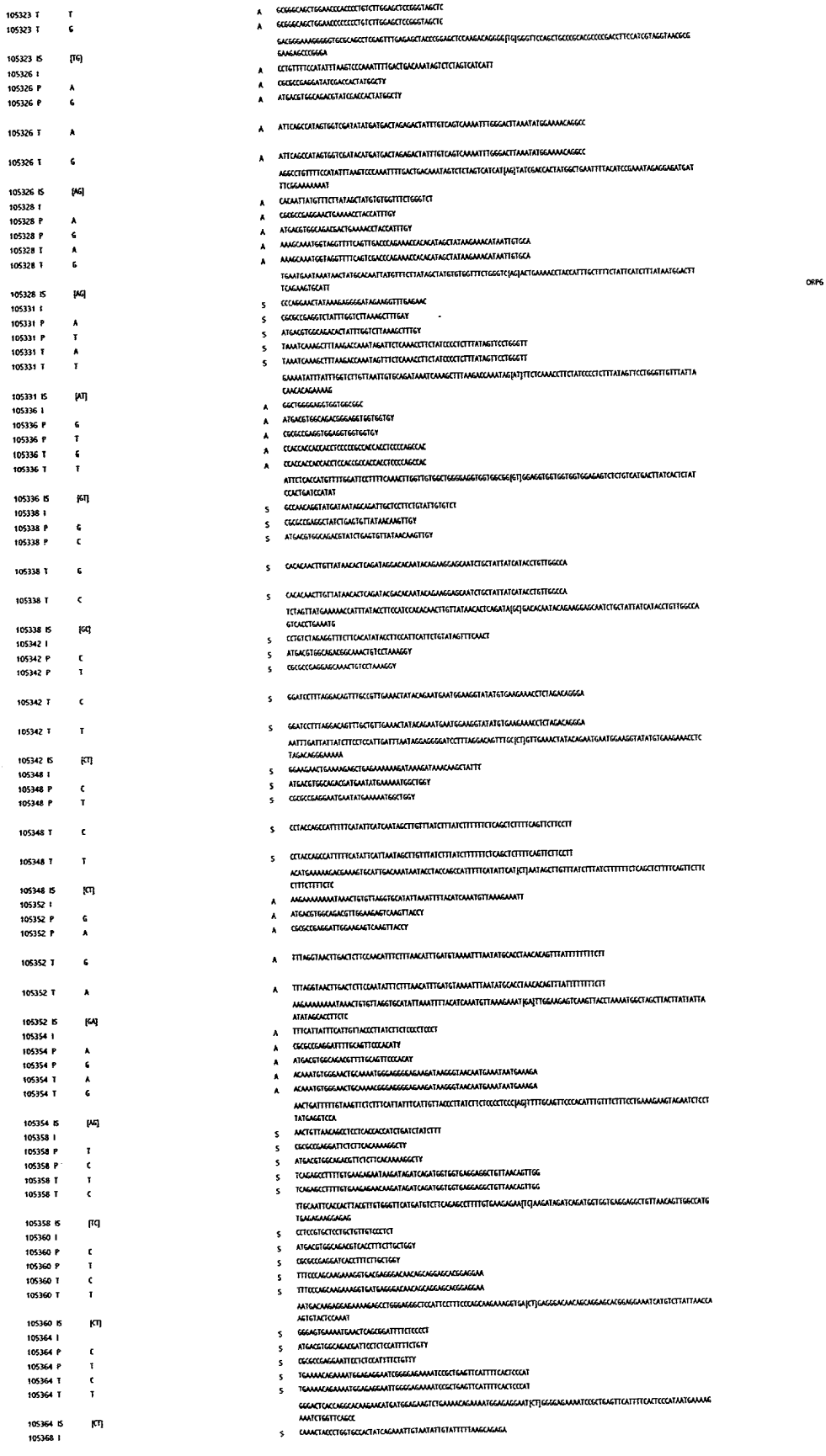


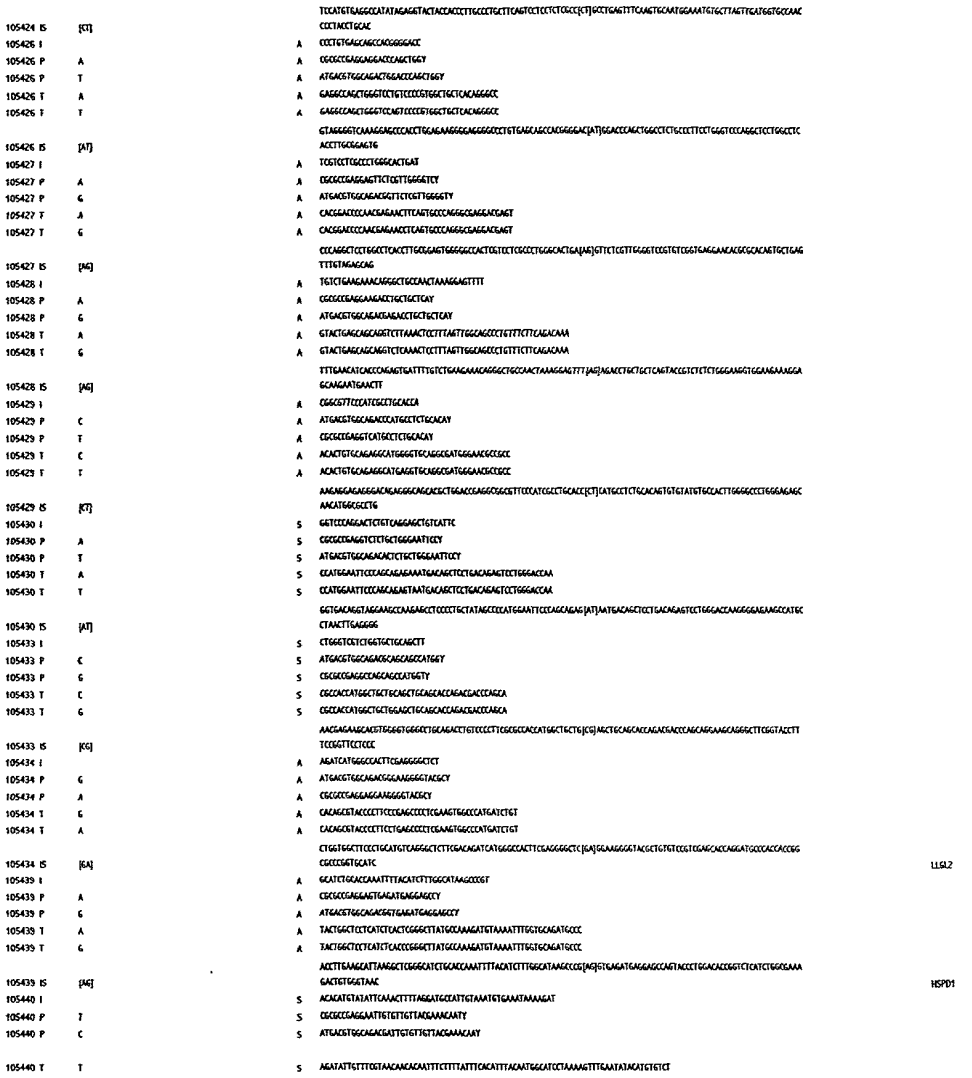


FIGURE 129C

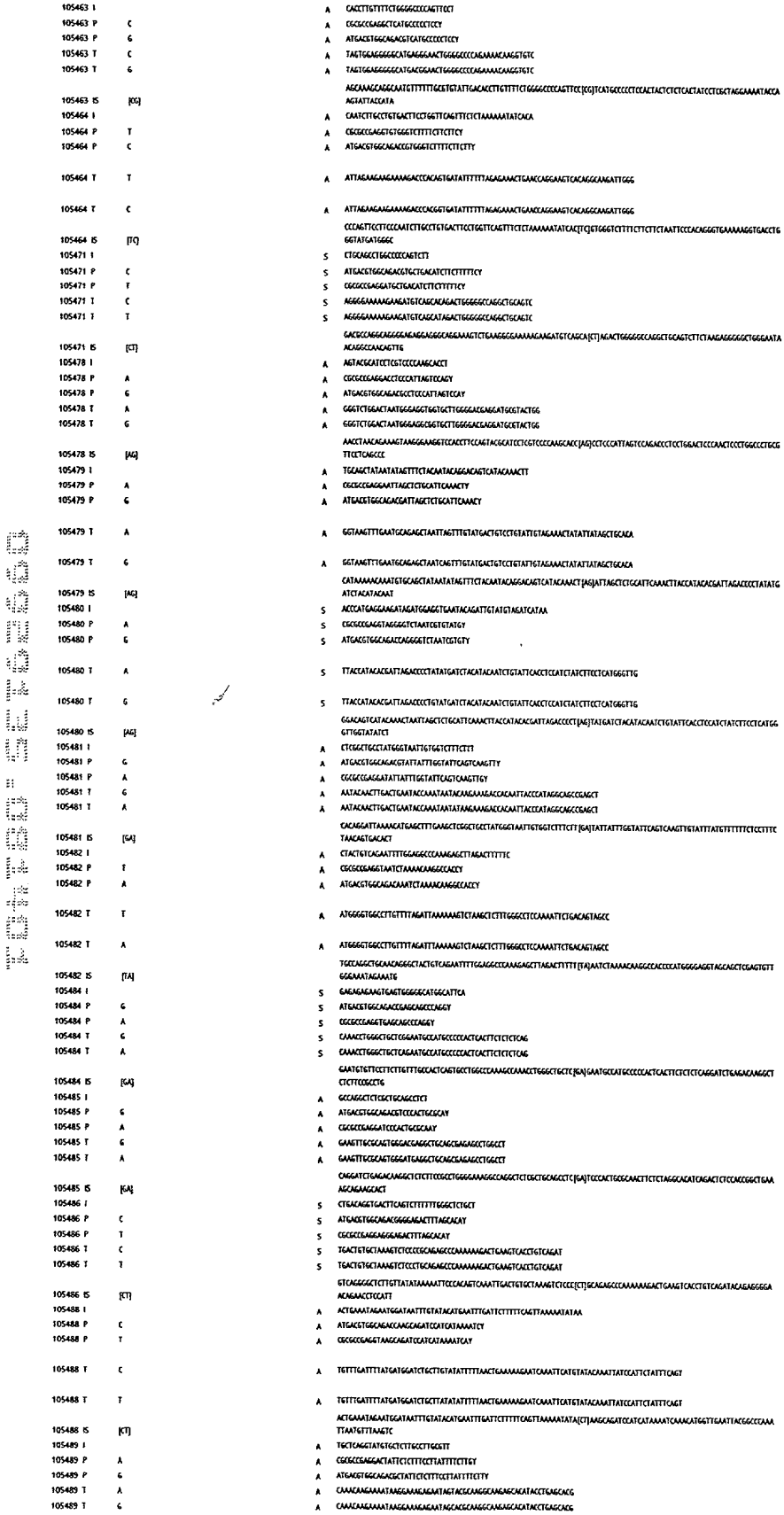


105409 T A A CGCGCCTGGCGATTCCTCTGGAAAGTCGTCTACTCCGCGGCCGAGG
105409 IS [GA] A CCCTGGGACCCCGCGGCGTCTACATCGCCCGCGAGCCTCCGCCGCGAGTAGACGACTTTCC[GA]CAGGAATCGCCAGGCGCTGAGCCCGGCCTGCCCGGCCCTCGCTCCGG AGTGTCCTCGCG
105410 I A GTCTGAGATATGTTTACATAGGGCTGCTTCTTCCTGA
105410 P C A ATGACGTGGCAGACCTGGCAGTAGTATACATGTCT
105410 P T A CGCGCCGAGGTTGGCAGTAGTATACATGTCY
105410 T C A AATGGACATGTATACTACTGCCAGCAGGAAGAAGCAGCCCTATGTAAACATATCTCAGACTT
105410 T T A AATGGACATGTATACTACTGCCAACAGGAAGAAGCAGCCCTATGTAAACATATCTCAGACTT
105410 IS [CT] AAAACTGAATTGCAGATTTTACAAGTCTGAGATATGTTACATAGGGCTGCTTCTTCCTG[CT]TGGCAGTAGTATACATGTCCATTTTTACTCCACTTAGATCTGAAATT GGGCAATTTGTGA
105411 I A ATGGACAAAAAGTGCCATGAAATAGTTTACATGAAATGGTGACCAAATT
105411 P A A CGCGCCGAGGATGCACTCAAAGCTATGAAAAY
105411 P G A ATGACGTGGCAGACGTGGACTCAAAGCTATGAAAY
105411 T A A TACATTTTCATAGCTTGAGTCCATATTTGGTCAGCATTTCATGTAAACTATTTCATGGCACTTTTTGTCCATGC
105411 T G A TACATTTTCATAGCTTTGAGTCCACATTTGGTCACCATTTCATGTAAACTATTTCATGGCACTTTTTGTCCATGC
105411 IS [AG] CTTGCTAATTGCATGGACACAAAAAGTGCCATGAAATAGTTTACATGAAATGGTGACCAAAT[AG]TGCACTCAAGCTATGAAAATGTACTATACTGACTGATTTTAGAGC TGATTATCACATTC
105412 I A CTGAGAAGAATTGTTCATTCTAATGGGACTATACTGTATCTCAATAAAATATAAAATAAAT
105412 P C A CGCGCCGAGGCATGGTACTATATTGGTAAGAAAGAY
105412 P G A ATGACGTGGCAGACGATGGTACTATATTGGTAAGAAAGAY
105412 T C A AAACTCTTTCTTACCAATATAGTACCATGTTTATTTTATATTTTATTGAGATACAGTATAGTCCCATTAGAATGAACAATTCTTCTCAG
105412 T G A AAACTCTTTCTTACCAATATAGTACCATCTTTATTTTATATTTTATTGAGATACAGTATAGTCCCATTAGAATGAACAATTCTTCTCAG
105412 IS [CG] CTGAGAAGAATTGTTCATTCTAATGGGACTATACTGTATCTCAATAAAATATAAAATAAA[CG]ATGGTACTATATTGGTAAGAAAGAGTTTATCTTTTTATTGGATAA GTTCACAACCTCTGG
105413 I A TTGTCCCTAGAATGAACACTTGCACATGAGTGTCCTGA
105413 P C A ATGACGTGGCAGACCGGAGATTTGCGGAAGY
105413 P T A CGCGCCGAGGTGGAGATTTGCGGAAGAY
105413 T C A CTCTCTCTTCCGCAAATCTCCGCAGGACACTCATGTGCAAGTGTTCATTCTAGGGACAAGG
105413 T T A CTTCTCTCTTCCGCAAATCTCCACAGGACACTCATGTGCAAGTGTTCATTCTAGGGACAAGG
105413 IS [CT] GTGGCCTGATTCTYTTATGGTCCTTGTCCCTAGAATGAACACTTGCACATGAGTGTCCTG[CT]GGAGATTTGCGGAAGAGAAGGTTGAGCTGCTGGAGAAGGCCATCGC ACAGTGCTTCGCCT
105414 I S GACACATGCTCTTTAAATATATGATTAAACTAAAAGAGGGAGGACAGTGGTCAA
105414 P G S ATGACGTGGCAGACCGCCTCTAGGTCGTCY
105414 P A S CGCGCCGAGGTGCCTCTAGGTCGTCTY
105414 T G S ACCCAGACGACCTAGAGGCGTGACCACTGTCCTCCCTCTTTTAGTTAATCATATATTTAAAGAGCATGTTGTCTC
105414 T A S ACCCAGACGACCTAGAGGCATGACCACTGTCCTCCCTCTTTTAGTTAATCATATATTTAAAGAGCATGTTGTCTC
105414 IS [GA] CCAAGTGAGCACAGGGACTTTAGGAAGCCCATGGCAGGGGCACCCAGAGCACCTAGAGGC[GA]TGACCACTGTCCTCCCTCTTTTAGTTTAATCATATATTTAAAGAGCA TGTTGTCTCTAGA
105415 I S CCCACTCCATATTTGATACACATCCGCCCCTCT
105415 P T S CGCGCCGAGGATCGCCTTCCACCATY
105415 P C S ATGACGTGGCAGACGTCGCCTTCCACCAY
105415 T T S CGACATGGTGGAAGGCGATGAGGGGCGGATGTGTATCAATATGGAGTGGGGG
105415 T C S CGACATGGTGGAAGGCGACGAGGGGCGGATGTGTATCAATATGGAGTGGGGG
105415 IS [TC] CACGGACAGCAACGCCTGCTACATGGAAGAGATGCGCCACATCGACATGATGGAAGCGCA[TC]GAGGGGCGGATGTGTATCAATATGGAGTGGGGGCCT?CGGGGACG ATGGCTCGCTCAAC HK2
105416 I A CAACTTCCCAAAGGTCTTTGGCAGTCCGTCTT
105416 P G A ATGACGTGGCAGACGCTTTCTTTAGGGCCTGY
105416 P A A CGCGCCGAGGACTTTCTTTAGGGCCTGY
105416 T G A ACTTCCAGGCCCTAAAGAAAGCAGACGCACTGCCAAAGACCTTTGGGAAGTTGTT
105416 T A A ACTTCCAGGCCCTAAAGAAAGTAGACGCACTGCCAAAGACCTTTGGGAAGTTGTT
105416 IS [GA] CTGACTGGACACACTACAGATTTGAACAACAACTTCCCAAAGGTCTTTGGCAGTCCGTCT[GA]CTTTCTTTAGGGCCTGGAAGTTCTTTGCATGTAGCTGCTAAAAGCTG TCCAAGCTATAAC
105418 I A GAACCGTCCACTGCCCTGTAGTGTCATTCTTCT
105418 P A A CGCGCCGAGGAAAGTCAGGGGATCAGGY
105418 P C A ATGACGTGGCAGACCAAGTCAGGGGATCAGGY
105418 T A A GGGTCCTGATCCCCTGACTTTGAAGAATGACACTACAGGGCAGTGGAGCGTTCCC
105418 T C A GGGTCCTGATCCCCTGACTTGGAAGAATGACACTACAGGGCAGTGGAGCGTTCCC
105418 IS [AC] TTGAATACTCATCTGCACAGTGACAAGGGAACCGTCCACTGCCCTGTAGTGTCATTCTTC[AC]AAGTCAGGGGATCAGGACCCTCCCAGCCAAACTCATTTCCCACTACCC TGCAACCTGTAC
105419 I A CTGAAGATCTTTGATGGCGAGCAGCGGGTT
105419 P G A ATGACGTGGCAGACGAGAAGAAGCAGTCCY
105419 P A A CGCGCCGAGGAAGAAGAAGCAGTCCY
105419 T G A AGGCGGAACTGGCTTCTTCTCACCGCGTCGTCGCCATCAAAGATCTTCAGCG
105419 T A A AGGCGGAACTGGCTTCTTCTIACCGCGTCGTCGCCATCAAAGATCTTCAGCG
105419 IS [GA] ACGGAGCTTACCCGGCCCAGGGAAGCAAAGCGTGAAGATCTTTGATGGCGAGCAGCGGT[GA]AGAAGAAGCCAGTTCCGCCTCGTTACGGTGTCCCGCCTGGCCGGTGC CGAGGAGGTGCTG
105421 I A GTTGGGCCCTCCCGGGTGTGAGTTACAT
105421 P G A ATGACGTGGCAGACGAGCCCTGTTGTGGAY
105421 P A A CGCGCCGAGGAAGCCCTGTTGTGGAY
105421 T G A AGACTCCACAACAGGGCTCTGTAACTCACACCCGGAGGCCCAACAG
105421 T A A AGACTCCACAACAGGGCTTTGTAACTCACACCCGGAGGCCCAACAG
105421 IS [GA] TTATCTGAGGGCGTTCAGCTCGCAGAACAGTTCTGTTGGGCCCTCCGGGTGTGAGTTACA[GA]AGCCCTGTTGTGGAGTCTGGGGTGTCTGATTTTAGACACTGTCCCAT CTCAAGTGCATGT
105422 I S CAAATGCAGTACATAGAGTTTGTCTCCCTGATGCATCCTT
105422 P T S CGCGCCGAGGATGAGTTTCAACCAGGTGY
105422 P C S ATGACGTGGCAGACGTGAGTTTCAACCAGGTGY
105422 T T S ACATCACCTGGTTGAAACTCATAGGATGCATCAGGAGAGACAAACTCTATGTACTGCATTTGTG
105422 T C S ACATCACCTGGTTGAAACTCACAGGATGCATCAGGAGAGACAAACTCTATGTACTGCATTTGTG
105422 IS [TC] CCATCATTTTTCAGTGCTCCAAATCCTGTCACAAACATCACATCACCTGGTTGAAACTCA[TC]AGGATGCATCAGGAGAGACAAACTCTATGTACTGCATTTGTGTAGGGA ACAGGGCTAGAAA DESC1
105423 I A CGGGGCTGCCCTGGCTTGCTJ
105423 P A A CGCGCCGAGGACAGGCCAGCTGAATY
105423 P G A ATGACGTGGCAGACGCAGGCCAGCTGAY
105423 T A A TGGCATTCAGCTGGCCTGTAGCAACCCAGGGCAGCCCCGGT
105423 T G A TGGCATTCAGCTGGCCTGCAGCAACCCAGGGCAGCCCCGGT
105423 IS [AG] CCGGGCGGAGGGCTCGGGTCGTTTTTGGTTGCCTTCCTACCGGGGCTGCCCTGGGTTGCT[AG]CAGGCCAGCTGAATGCCAGGAATTGGGTGAAGGAGTCCGGGAGCAAAA ATTGTAACAAAGG
105424 I A GCCCTGCTTCAGTCCTCCTCTGGCCA
105424 P C A ATGACGTGGCAGACCGCCTGAGTTTCAAGTGY
105424 P T A CGCGCCGAGGTGCCTGAGTTTCAAGTGY
105424 T C A ATTGCACTTGAAACTCAGGCGGGCGGAGAGGAGGACTGAAGCAGGGCAA
105424 T T A ATTGCACTTGAAACTCAGGCAGGCGAGAGGAGGACTGAAGCAGGGCAA

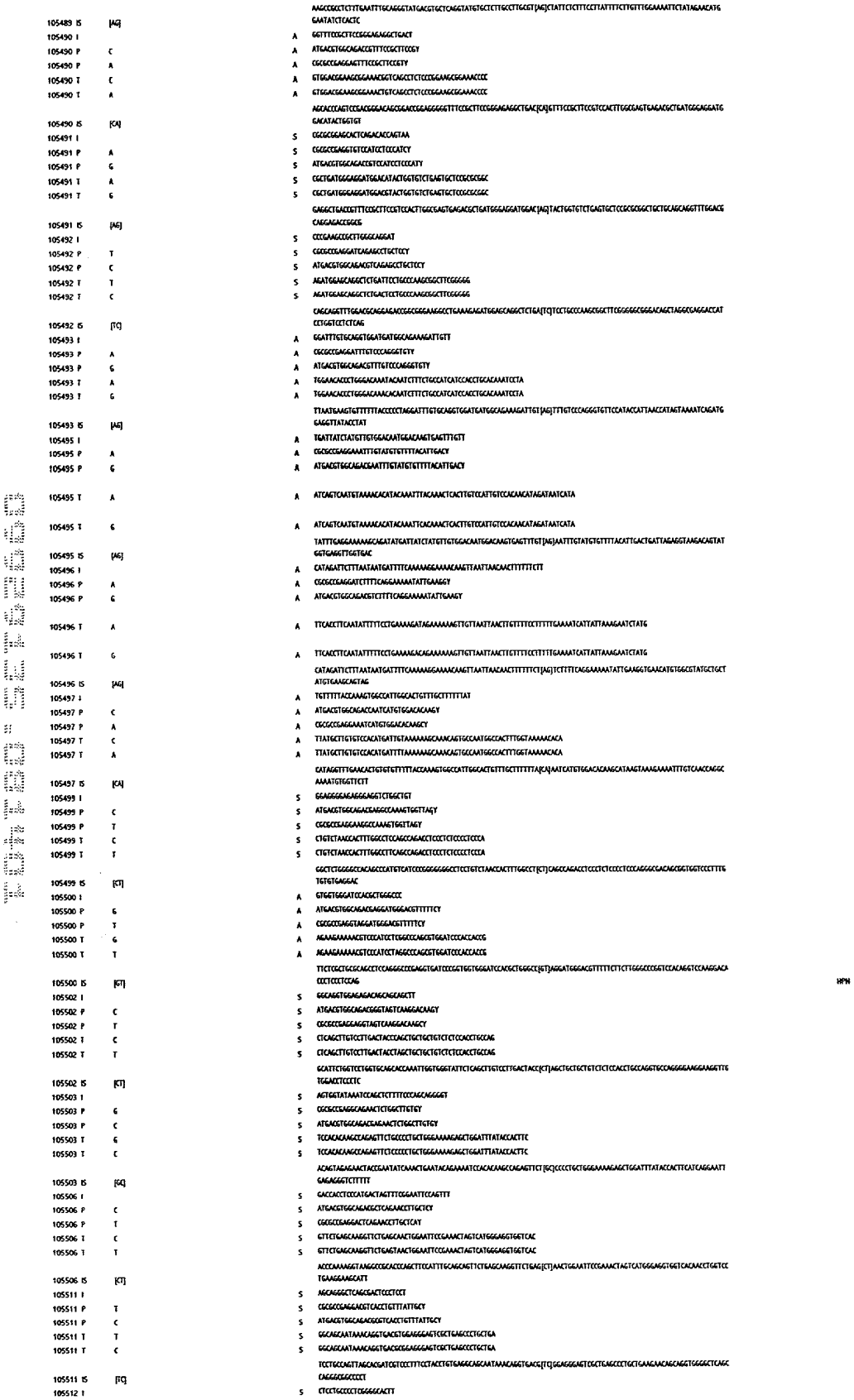
FIGURE 129C



PRELIMINARY



105463 1 A CACCTTGTTTTCTGGGGCCCCAGTTCCT
105463 P C A CGCGCCCGAGGCTCATGCCCCCTCCY
105463 P G A ATGACGTGGCCAGACGTCATGCCCCCTCCY
105463 T C A TAGTGGAGGGGGCATGAGGGAACTGGGGCCCCCAGAAAACAAGGTGTC
105463 T G A TAGTGGAGGGGGCATGACGGAACTGGGGCCCCCAGAAAACAAGGTGTC
105463 IS [CG] AGCAAGCAGGCAATGTTTTTTGCGTGTATTGACACCTTGTTTTCTGGGGCCCCAGTTCC[CG]TCATGCCCCCTCCACTACTCTCTCACTATCCTCGCTAGGAAAATACCA AGTATTACCATA
105464 1 A CAATCTTGCCTGTGACTTCCTGGTTCAGTTTCTCTAAAAAATATCACA
105464 P T A CGCGCCGAGGTGTGGGTCTTTTCTCTCTCY
105464 P C A ATGACGTGGCAGACCGTGGGTCTTTTCTCTTY
105464 T T A ATTAGAAGAAGAAAAGACCCACAGTGATATTTTTTAGAGAAACTGAACCAGGAAGTCACAGGCAAGATTGGG
105464 T C A ATTAGAAGAAGAAAAGACCCACGGTGATATTTTTTAGAGAAACTGAACCAGGAAGTCACAGGCAAGATTGGG
105464 IS [TC] CCCAGTTCCTTCCCCAATCTTGCCTGTGACTTCCTGGTTCAGTTTCTCTAAAAAATATCAC[TC]GTGGGTCTTTTCTTCTTCTAATTCCCACAGGGTGAAAAAGGTGACCTG GGTATGATGGGC
105471 1 S CTGCAGCCTGGCCCCCAGTCTT
105471 P C S ATGACGTGGCAGACGTGCTGACATCTCTCTTTTTCY
105471 P T S CGCGCCGAGGATGCTGACATCTTCTTTTTCY
105471 T C S AGGGGAAAAAGAAGATGTCAGCAGACAGACTGGGGGCCAGGCTGCAGTC
105471 T T S AGGGGAAAAAGAAGATGTCAGCATAGACTGGGGGCCAGGCTGCAGTC
105471 IS [CT] GACGCCAGGCAGGGGAGAGGAGGGCAGGAAAGTCTGAAGGGGAAAAAGAAGATGTCAGCA[CT]AGACTGGGGGCCAGGCTGCAGTCTTCTAAGAGGGGGCTGGGAATA ACAGGCCAACAGTTG
105478 1 A AGTACGCATCCTCGTCCCCAAGCACCT
105478 P A A CGCGCCGAGGACCTCCCATTAGTCCAGY
105478 P G A ATGACGTGGCAGACGCCTCCCATTAGTCCAY
105478 T A A GGGTCTGGACTAATGGGAGGTGGTGCTTGGGGACAGAGGATGCGTACTGG
105478 T G A GGGTCTGGACTAATGGGAGGCGGTGCTTGGGGACGAGGATGCGTACTGG
105478 IS [AG] AACCTAACAGAAAGTAAGGGAAGGTCCACCTTCCAGTACGCATCCTCGTCCCCAAGCACC[AG]CCTCCCATTAGTCCAGAGCCTCCTGGACTCCCAACTCCCTGGCCCTGCG TTCCTCAGCCC
105479 1 A TGCAGCTATAATATAGTTTCTACAATACAGGACAGTCATACAAACTT
105479 P A A CGCGCCGAGGAATTAGCTCTGCATTCAAACTY
105479 P G A ATGACGTGGCAGACGATTAGCTCTGCATTCAAACY
105479 T A A GGTAAGTTTGAATGCAGAGCTAATTAGTTTGTATGACTGTCCTGTATTGTAGAAACTATATTATAGCTGCACA
105479 T G A GGTAAGTTTGAATGCAGAGCTAATCAGTTTGTATGACTGTCCTGTATTGTAGAAACTATATTATAGCTGCACA
105479 IS [AG] CATAAAAACAAATGTGCAGCTATAATATAGTTTCTACAATACAGGACAGTCATACAAACT[AG]ATTAGCTCTGCATTCAAACTTACCATACACGCATTAGACCCCTATATG ATCTACATACAAT
105480 1 S ACCCATGAGGAAGATAGATGGAGGTGAATACAGATTGTATGTAGATCATAA
105480 P A S CGCGCCGAGGTAGGGGTCTAATCGTGTATGY
105480 P G S ATGACGTGGCAGACCAGGGGTCTAATCGTGTY
105480 T A S TTACCATACACGATTAGACCCCTATATGATCTACATACAATCTGTATTCACCTCCATCTATCTTCCTCATGGGTTG
105480 T G S TTACCATACACGATTAGACCCCTGTATGATCTACATACAATCTGTATTCACCTCCATCTATCTTCCTCATGGGTTG
105480 IS [AG] GGACAGTCATACAAACTAATTAGCTCTGCATTCAAACTTACCATACACGATTAGACCCCT[AG]TATGATCTACATACAATCTGTATTCACCTCCATCTATCTTCCTCATGG GTTGGTATATCT
105481 1 A CTCGGCTGCCTATGGGTAATTGTGGTCTTTCTTT
105481 P G A ATGACGTGGCAGACGTATTATTTGGTATTCAGTCAAGTTY
105481 P A A CGCGCCGAGGATATTATTTGGTATTCAGTCAAGTTGY
105481 T G A AATACAACTTGACTGAATACCAAATAATACAAGAAAGACACACAATTACCCATAGGCAGCCGAGCT
105481 T A A AATACAACTTGACTGAATACCAAATAATATAAGAAAGACACACAATTACCCATAGGCAGCCGAGCT
105481 IS [GA] CACAGGATTAAAACATGAGCTTTGAAGCTCGGCTGCCTATGGGTAATTGTGGTCTTTCTT[GA]TATTATTTGGTATTCAGTCAAGTTGTATTTATGTTTTTCTCCTTTC TAACAGTGACACT
105482 1 A CTACTGTCAGAATTTTGGAGGCCCAAAGAGCTTAGACTTTTTC
105482 P T A CGCGCCGAGGTAATCTAAAACAAGGCCACCY
105482 P A A ATGACGTGGCAGACAAATCTAAAACAAGGCCACCY
105482 T T A ATGGGGTGGCCTTGTTTTAGATTAAAAAGTCTAAGCTCTTTGGGCCTCCAAAATTCTGACAGTAGCC
105482 T A A ATGGGGTGGCCTTGTTTTAGATTTAAAAAGTCTAAGCTCTTTGGGCCTCCAAAATTCTGACAGTAGCC
105482 IS [TA] TGCCAGGCTGCAACAGGGCTACTGTCAGAATTTTGGAGGCCCAAAGAGCTTAGACTTTTT[TA]AATCTAAAACAAGGCCACCCCATGGGCAGGTAGCAGCTCGAGTGTT GGGAAATAGAAATG
105484 1 S GAGAGAGAAGTGAGTGGGGGCATGGCATTCA
105484 P G S ATGACGTGGCAGACCGAGCAGCCCAGGY
105484 P A S CGCGCCCGAGGTGAGCAGCCCAGGY
105484 T G S CAAACCTGGGCTGCTCGGAATGCCATGCCCCCACTCACTTCTCTCTCAG
105484 T A S CAAACCTGGGCTGCTCAGAATGCCATGCCCCCACTCACTTCTCTCTCAG
105484 IS [GA] GAATGTGTTCCTTCTTGTTTGCCACTCAGTGCCTGGCCCAAAGCCAAACCTGGGCTGCTC[GA]GAATGCCATGCCCCCACTCACTTCTCTCTCAGGATCTGAGACAAGGCT CTCTTCCGCCTG
105485 1 A GCCAGGCTCTCGCTGCAGCCTCT
105485 P G A ATGACGTGGCAGACGTCCCACTGCGCAY
105485 P A A CGCGCCGAGGATCCCACTGCGCAAY
105485 T G A GAAGTTGCGCAGTGGGACGAGGCTGCAGCGAGAGCCTGGCCT
105485 T A A GAAGTTGCGCAGTGGGATGAGGCTGCAGCGAGAGCCTGGCCT
105485 IS [GA] CAGGATCTGAGACAAGGCTCTCTTCCGCCTGGGGAAAGGCCAGGCTCTCGCTGCAGCCTC[GA]TCCCACTGCGCAACTTCTCTAGGCACATCAGACTCTCCACCGGCTGAA AGCAGAAGCACT
105486 1 S CTGACAGGTGACTTCAGTCTTTTTTGGGCTCTGCT
105486 P C S ATGACGTGGCAGACGGGGAGACTTTAGCACAY
105486 P T S CGCGCCGAGGAGGGAGACTTTAGCACAY
105486 T C S TGACTGTGCTAAAGTCTCCCTGCAGAGCCCAAAAAAGACTGAAGTCACCTGTCAGAT
105486 T T S TGACTGTGCTAAAGTCTCCCTGCAGAGCCCAAAAAAGACTGAAGTCACCTGTCAGAT
105486 IS [CT] GTCAGGGGCTCTTGTTATATAAAAATTCCCACAGTCAAATTGACTGTGCTAAAGTCTCCCC[CT]GCAGAGCCCAAAAAAGACTGAAGTCACCTGTCAGATACAGAGGGGA ACAGAACCTCCATT
105488 1 A ACTGAAATAGAATGGATAATTTGTATACATGAATTTGATTCTTTTTCAGTTAAAAATATAA
105488 P C A ATGACGTGGCAGACCAGCAGATCCATCATAAAATCY
105488 P T A CGCGCCGAGGTAAGCAGATCCATCATAAAATCAY
105488 T C A TGTTTGATTTTATGATGGATCTGCTTGTATATTTTTAACTGAAAAAGAATCAAATTCATGTATACAAATTATCCATTCTATTTCAGT
105488 T T A TGTTTGATTTTATGATGGATCTGCTTATATATTTTTAACTGAAAAAGAATCAAATTCATGTATACAAATTATCCATTCTATTTCAGT
105488 IS [CT] ACTGAAATAGAATGGATAATTTGTATACATGAATTTGATTCTTTTTCAGTTAAAAATATA[CT]AAGCAGATCCATCATAAAATCAAACATGGTTGAATTACGGCCCAAA TTAATGTTTAAGTC
105489 1 A TGCTCAGGTATGTGCTCTTGCCTTGCGTT
105489 P A A CGCGCCGAGGACTATTCTCTTTCCTTATTTTCTTGY
105489 P G A ATGACGTGGCAGACGCTATTCTCTTTCCTTATTTTCTTY
105489 T A A CAAACAAGAAAATAAGGAAAGAGAATAGTACGCAAGGCAAGAGCAGATACCTGAGCACG
105489 T G A CAAACAAGAAAATAAGGAAAGAGAATAGCACGCAAGGCAAGAGCAGATACCTGAGCACG



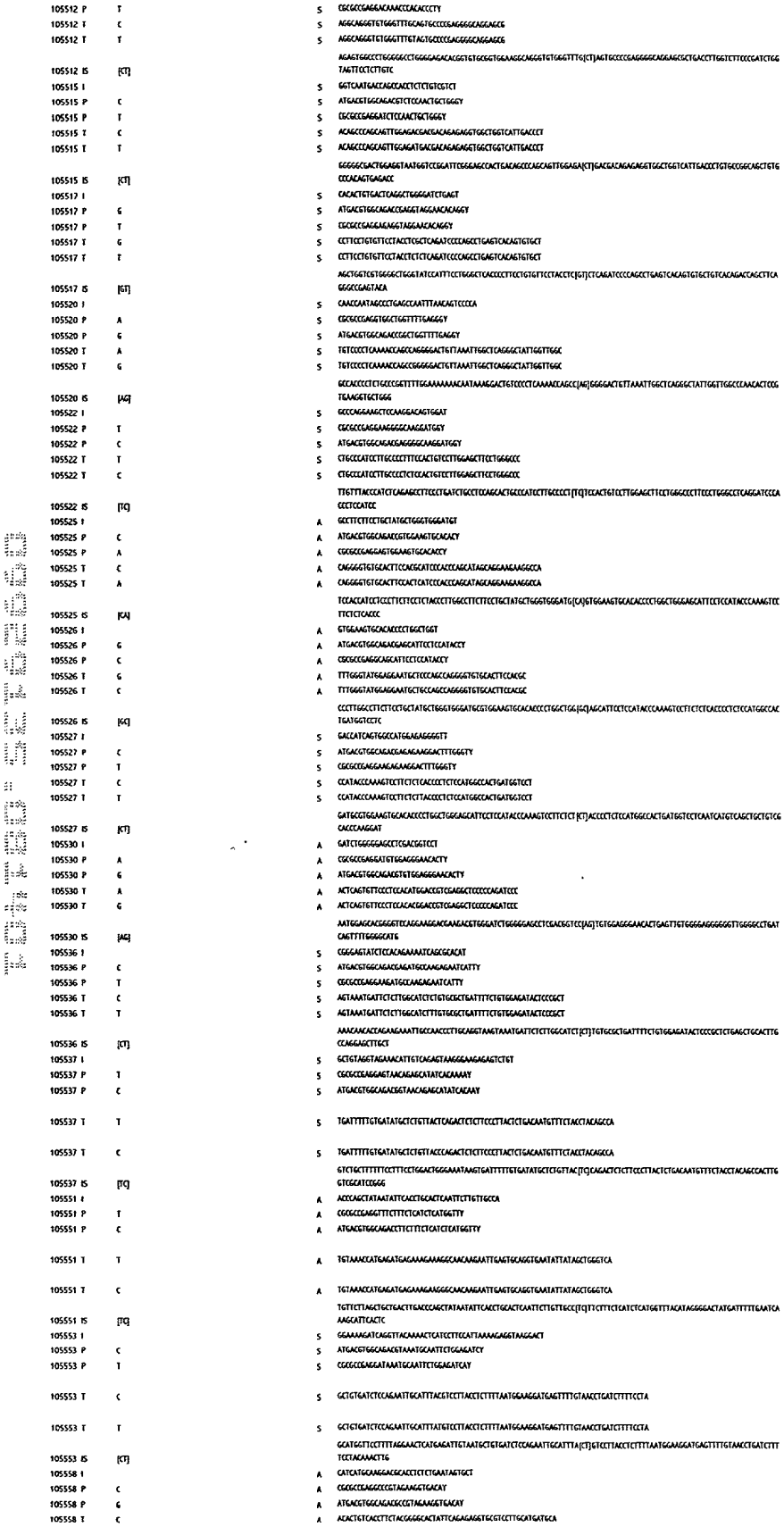


FIGURE 129C

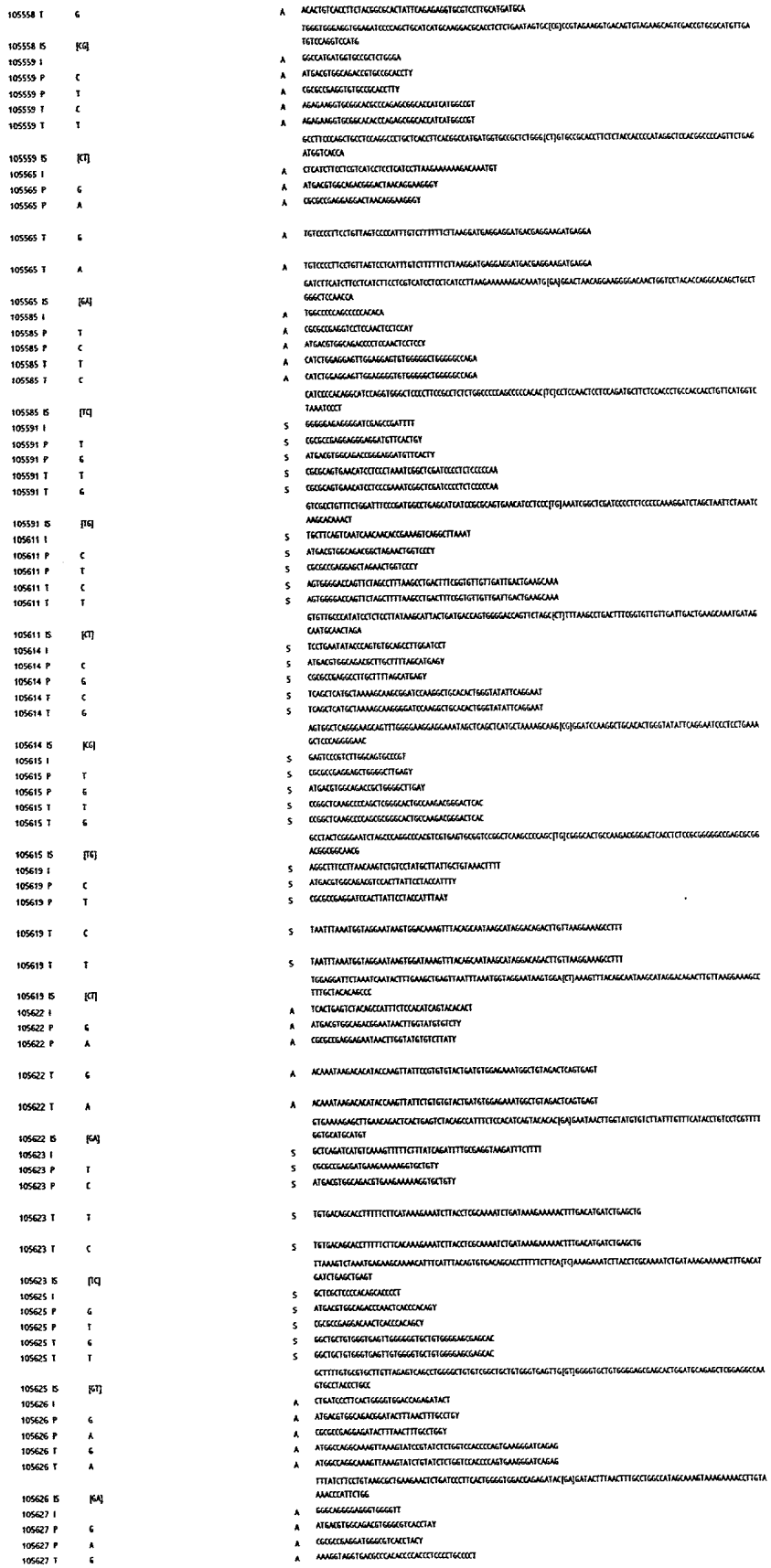


FIGURE 129C

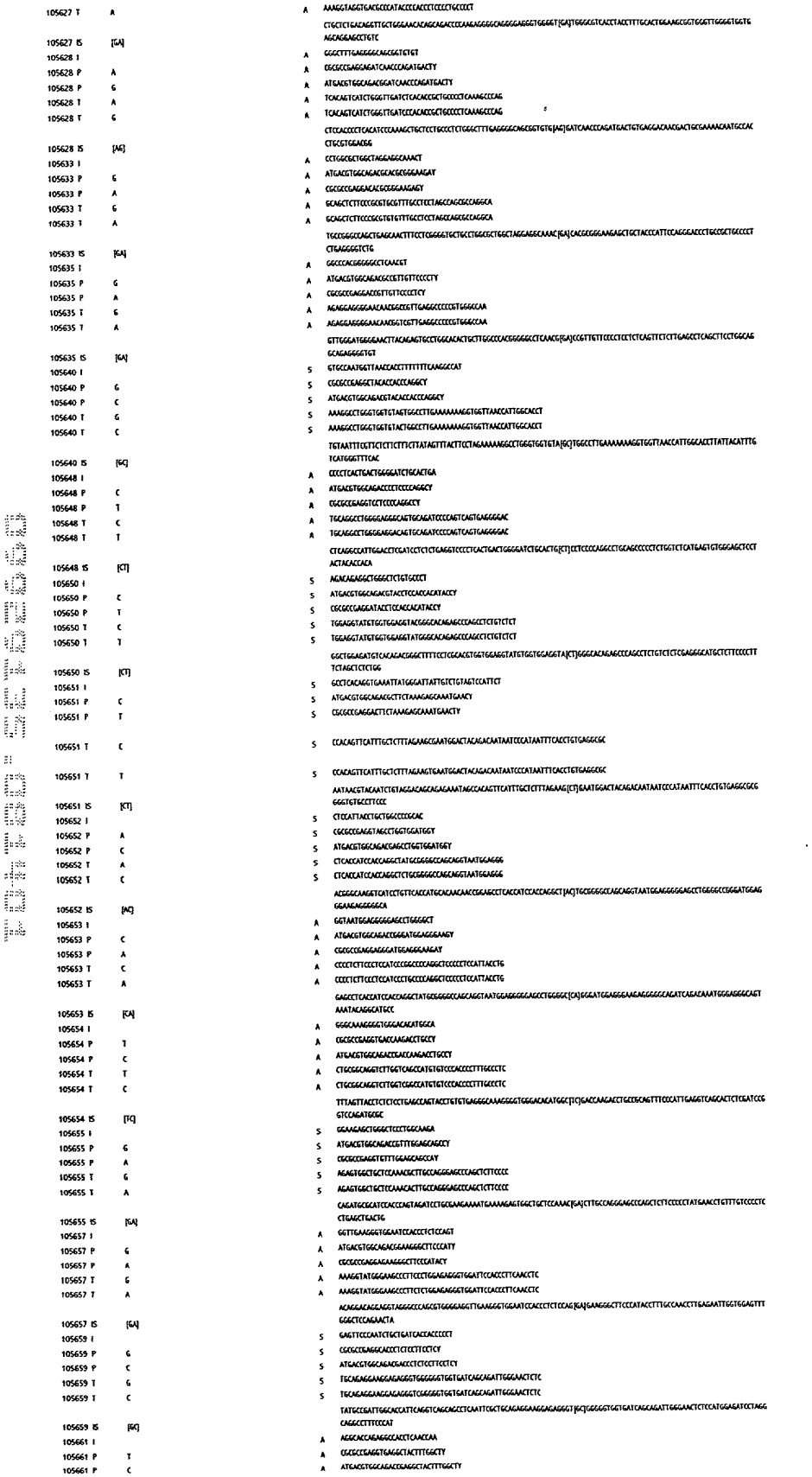


FIGURE 129C

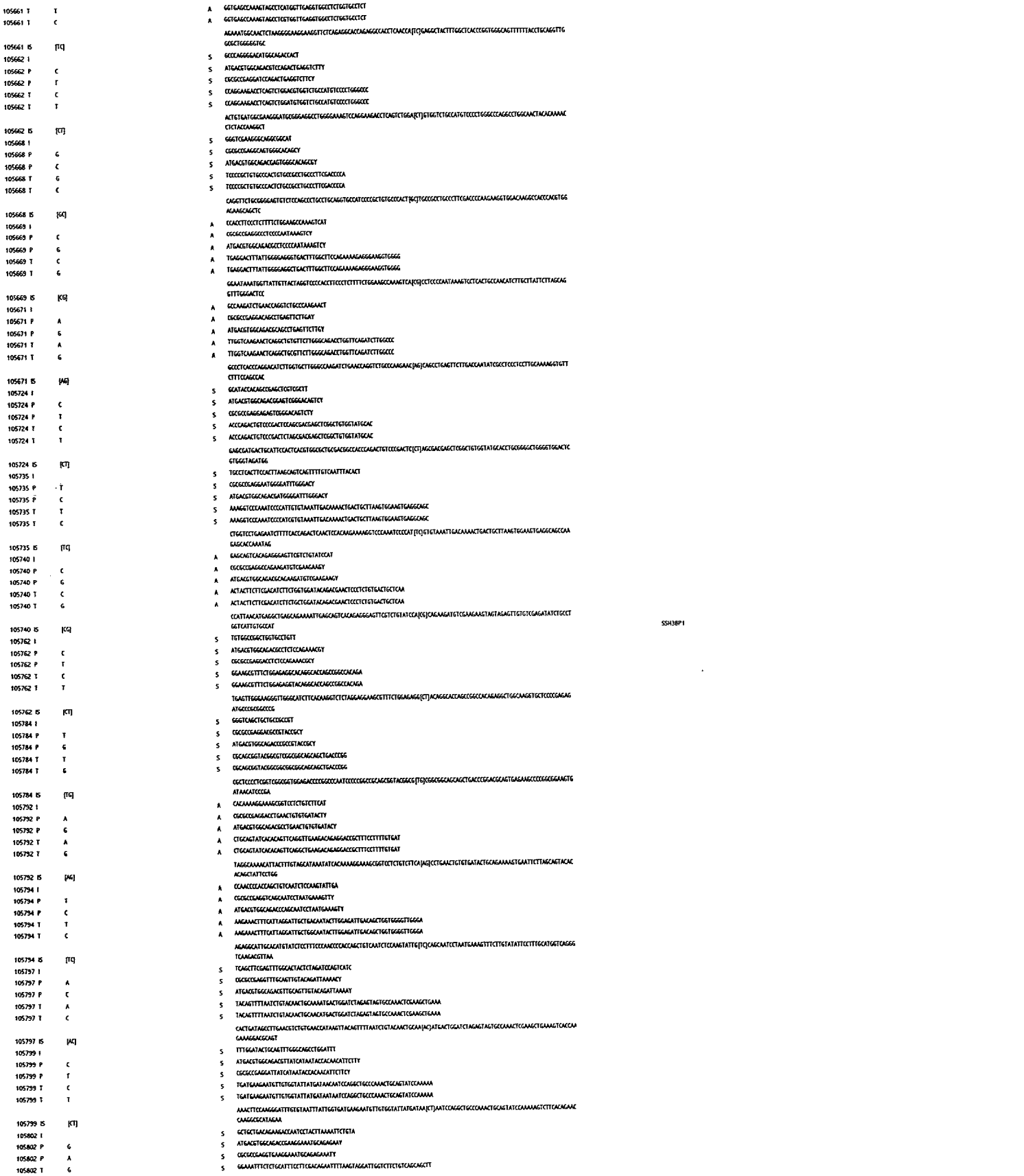

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S ATGACCTGGCAGACGTCCAGACTGAGGTCTTY
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GTGGGTAGATGG
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S CGCGCCGAGGAATGGGGATTTGGGACY
S ATGACGTGGCAGACGATGGGGATTTGGGACY
S AAAGGTCCCAAATCCCCATTGTGTAAATTGACAAAACTGACTGCTTAAGTGGAAGTGAGGCAGC
S AAAGGTCCCAAATCCCCATCGTGTAAATTGACAAAACTGACTGCTTAAGTGGAAGTGAGGCAGC
CTGGTCCTGAGAATCTTTTCACCAGACTCAACTCCACAAGAAAAGGTCCCAAATCCCCAT[TC]GTGTAAATTGACAAAACTGACTGCTTAAGTGGAAGTGAGGCAGCCAA
GAGCACCAAATAG
A GAGCAGTCACAGAGGGAGTTCGTCTGTATCCAT
A CGCGCCGAGGCCAGAAGATGTCGAAGAAGY
A ATGACGTGGCAGACGCAGAAGATGTCGAAGAAGY
A ACTACTTCTTCGACATCTTCTGGTGGATACAGACGAACTCCCTCTGTGACTGCTCAA
A ACTACTTCTTCGACATCTTCTGCTGGATACAGACGAACTCCCTCTGTGACTGCTCAA
CCATTAACATGAGGCTGAGCAGAAAATTGAGCAGTCACAGAGGGAGTTCGTCTGTATCCA[CG]CAGAAGATGTCGAAGAAGTAGTAGAGTTGTGTCGAGATATCTGCCT
GGTCATTGTGCCAT
S TGTGGCCGGCTGGTGCCTGTT
S ATGACGTGGCAGACGCCTCTCCAGAAACGY
S CGCGCCGAGGACCTCTCCAGAAACGCY
S GGAAGCGTTTCTGGAGAGGCACAGGCACCAGCGGGCCACAGA
S GGAAGCGTTTCTGGAGAGGTACAGGCACCAGCCGGCCACAGA
TGAGTTGGGAAGGGTTGGGCATCTTCACAAGGTCTCTAGGAGGAAGCGTTTCTGGAGAGG[CT]ACAGGCACCAGCCGGCCACAGAGGCTGGCAAGGTGCTCCCCGAGAG
ATGCCCGCGGCCCG
S GGGTCAGCTGCTGCCGCCGT
S CGCGCCGAGGAACGCCGTACCGCY
S ATGACGTGGCAGACCCGCCGTACCGCY
S CGCAGCGGTACGGCGTGGCGGCAGCAGCTGACCCGG
S CGCAGCGGTACGGCGGCGGCGGCAGCAGCTGACCCGG
CGCTCCCCTCGGTGGCGGTGGAGACCCCGGCCCAATCCCCCGGCCCACGCGGTACGGCG[TG]CGGCGGCAGCAGCTGACCCGGACGCAGTGAGAAGCCCCGGCGGAAGTG
ATAACATCCCGA
A CACAAAAGGAAAGCGGTCCTCTGTCTTCAT
A CGCGCCGAGGAACCTGAACTGTGTGATACTY
A ATGACGTGGCAGACGCCTGAACTGTGTGATACY
A CTGCAGTATCACACAGTTCAGGTTGAAGACAGAGGACCGCTTTCCTTTTGTGAT
A CTGCAGTATCACACAGTTCAGGCTGAAGACAGAGGACCGCTTTCCTTTTGTGAT
TAGGCAAAACATTACTTTGTAGCATAAATATCACAAAGGAAAGCGGTCCTCTGTCTCA[AG]CCTGAACTGTGTGATACTGCAGAAAAGTGAATTCTTAGCAGTACAC
ACAGCTATTCCTGG
A CCAACCCCACCAGCTGTCAATCTCCAAGTATTGA
A CGCGCCGAGGTCAGCAATCCTAATGAAAGTTY
A ATGACGTGGCAGACCAGCAATCCTAATGAAAGTY
A AAGAAACTTTCATTAGGATTGCTGACAATACTTGGAGATTGACAGCTGGTGGGGTTGGGA
A AAGAAACTTTCATTAGGATTGCTGGCAATACTTGGAGATTGACAGCTGGTGGGGTTGGGA
AGAGGCATTGCACATGTATCTCCTTTCCCAACCCCACCAGCTGTCAATCTCCAAGTATTG[TC]CAGCAATCCTAATGAAAGTTTCTTGTATATTCCTTTGCATGGTCAGGG
TCAAGACGTTAA
S TCAGCTTCGAGTTTGGCCACTACTCTAGATCCAGTCATC
S CGCGCCGAGGTTTGCAGTTGTACAGATTAAAACY
S ATGACGTGGCAGACAGCTTGCAGTTGTACAGATTAAAAY
S TACAGTTTTAATCTGTACAACTGCAAAATGACTGGATCTAGAGTAGTGCCAAACTCGAAGCTGAAA
S TACAGTTTTAATCTGTACAACTGCAACATGACTGGATCTAGAGTAGTGCCAAACTCGAAGCTGAAA
CACTGATAGCCTTGAACGTCTGTGAACCATAAGTTACAGTTTTAATCTGTACAACTGCAA[AC]ATGACTGGATCTAGAGTAGTGCCAAACTCGAAGCTGAAAGTCACCAA
GAAAGGACGCAGT
S TTTGGATACTGCAGTTTGGGCAGCCTGGATTT
S ATGACGTGGCAGACGTTATCATAATACCACAACATTCTTY
S CGCGCCGAGGATTATCATAATACCACAACATTCTTCY
S TGATGAAGAATGTTGTGGTATTATGATAACAATCCAGGCTGCCCAAACTGCAGTATCCAAAAA
S TGATGAAGAATGTTGTGGTATTATGATAATAATCCAGGCTGCCCAAACTGCAGTATCCAAAAA
AAACTTCCAAGGGATTTGTGTAATTTATTGGTGATGAAGAATGTTGTGGTATTATGATAA[CT]AATCCAGGCTGCCCAAACTGCAGTATCCAAAAAGTCTTCACAGAAC
CAAGGCGCATAGAA
S GCTGCTGACAGAAGACCAATCCTACTTAAAATTCTGTA
S ATGACGTGGCAGACCGAAGGAAATGCAGAGAAY
S CGCGCCGAGGTGAAGGAAATGCAGAGAAATY
S GGAAATTCTCTCGCATTCCTTCCAGAGAATTTTAAGTAGGATTGGTCTTCTGTCAGCAGCTT
SSH3BP1

FIGURE 129C

105802	T	A	S	GGAAATTTCTCTGCATTTCCTTCAACAGAATTTTAAGTAGGATTGGTCTTCTGTCAGCAGCTT
105802	IS	[GA]		TTAATTACATAAGAGATGACAAGTTATTTTGGTATTAGGAAAATTTCTCTGCATTTCCTTC[GA]ACAGAATTTTAAGTAGGATTGGTCTTCTGTCAGCAGCTTTTTAGTG ACTCCAAATGAAAA
105819	I		S	AAAAGATTACTGAGCACATAACTAATGTCTCTGAAAGGAAATTCATTT
105819	P	T	S	CGCGCCGAGGATAACAGCAGCTAGCCTY
105819	P	C	S	ATGACGTGGCAGACGTAACAGCAGCTAGCCY
105819	T	T	S	ATAAAGGCTAGCTGCTGTTATAATGAATTTCCTTTCAGAGACATTAGTTATGTGCTCAGTAATCTTTTTGA
105819	T	C	S	ATAAAGGCTAGCTGCTGTTACAATGAATTTCCTTTCAGAGACATTAGTTATGTGCTCAGTAATCTTTTTGA
105819	IS	[TC]		ATTATGATATACTTTGCGTTATGTCTAACACAAATGATCAATAAAGGCTAGCTGCTGTTA[TC]AATGAATTTCCTTTCAGAGACATTAGTTATGTGCTCAGTAATCTTTT TGAAATGTTCTTT
105823	I		S	CCTCAGACCTGGGGCAGTCACTGGAAT
105823	P	T	S	CGCGCCGAGGACTCAGAAGAGAGAAGACAAY
105823	P	C	S	ATGACGTGGCAGACGCTCAGAAGAGAGAAGACAY
105823	T	T	S	TGTCTTGTCTCTCTCTTCTGAGTTTCCAGTGACTGCCCCAGGTCTGAGGCT
105823	T	C	S	TGTCTTGTCTCTCTCTTCTGAGCTTCCAGTGACTGCCCCAGGTCTGAGGCT
105823	IS	[TC]		TAACAGCTGGATGCCTCCTTGAATGGGAAACTTTCATTGTCTTGTCTCTCTCTCTGAG[TC]TTCCAGTGACTGCCCCAGGTCTGAGGCTGGAGCAGGGCTCTGACTGTG ACACCCCTGCGT
105825	I		A	AGGCCCAAGCTCCAAGGAAGAAAAGGGGT
105825	P	A	A	CGCGCCGAGGATGTGAGGAAGCAGGGY
105825	P	G	A	ATGACGTGGCAGACGTGTGAGGAAGCAGGGY
105825	T	A	A	AATACCCTGCTTCCTCACATCCCCTTTTCTTCCTTGGAGCTTGGGCCTGG
105825	T	G	A	AATACCCTGCTTCCTCACACCCCTTTTCTTCCTTGGAGCTTGGGCCTGG
105825	IS	[AG]		GTGGAGGCCTGTGCCTGACTAGGTGAGGGCCCAGGCCCAAGCTCCAAGGAAGAAAAGGGG[AG]TGTGAGGAAGCAGGGTATTTGTTGCCTGAGGCCCACCTCCAACACT TTGGGCAGAACACC
105828	I		S	GGGCTTGATTCATTTGCTTCCCCTTTCAGTGACTT
105828	P	T	S	CGCGCCGAGGATAGTCTTGTGCCATCTGTY
105828	P	C	S	ATGACGTGGCAGACGTAGTCTTGTGCCATCTGY
105828	T	T	S	CTGGACAGATGGCACAAGACTATAGTCACTGAAAGGGGAAGCAAATGAATCAAGCCCTA
105828	T	C	S	CTGGACAGATGGCACAAGACTACAGTCACTGAAAGGGGAAGCAAATGAATCAAGCCCTA
105828	IS	[TC]		AGACAATCAAAAATACATAAAATAATGGTTTCAGACACTGGACAGATGGCACAAGACTA[TC]AGTCACTGAAAGGGGAAGCAAATGAATCAAGCCCTAAATTGACCCA CCTTAATAAAATTT
105889	I		A	TCTCCTGAATGAATTTTCTGATGCAAAACTAGGTATGAATGATCT
105889	P	G	A	ATGACGTGGCAGACGCTGAAGTTTTGGTCACAY
105889	P	A	A	CGCGCCGAGGACTCAAGTTTTGGTCACACY
105889	T	G	A	CTGAGTGTGACCAAAACTTCAGCGATCATTCATACCTAGTTTTGCATCAGAAAATTCATTCAGGAGAGA
105889	T	A	A	CTGAGTGTGACCAAAACTTCAGTGATCATTCATACCTAGTTTTGCATCAGAAAATTCATTCAGGAGAGA
105889	IS	[GA]		ACATTTATGTTTTTCTCTCCTGAATGAATTTTCTGATGCAAAACTAGGTATGAATGATC[GA]CTGAAGTTTTGGTCACACTCAGGACATTTGTACACATTTTTGGCTCC TTCCCAGGGAGAA
105890	I		A	GGGACCTCTGGGCAGGGTGCAGAGC
105890	P	T	A	CGCGCCGAGGTCACCCACTCCTCTTGY
105890	P	A	A	ATGACGTGGCAGACACAGCGACTCCTCTTY
105890	T	T	A	TTCTCAAGAGGAGTGCGTGACTCTGCACCCTGCCCAGAGGTCCCTC
105890	T	A	A	TTCTCAAGAGGAGTGCGTGTCTCTGCACCCTGCCCAGAGGTCCCTC
105890	IS	[TA]		CATCCTCCAAAGACTCTTTGTACCATCTTTGCTGAGGGACCTCTGGGCAGGGTGCAGAG[TA]CACGCACTCCTCTTGAGAAAATACACAGCCAGATCCTCAAACAGTA TTGGTCCCTGAAA
105891	I		S	CCCACCCCTTAGAACCCATTTGCCCTACTTT
105891	P	G	S	CGCGCCGAGGCTGCGCTCAAGAACCY
105891	P	C	S	ATGACGTGGCAGACGTGCGCTCAAGAACCY
105891	T	G	S	AAAAGGTTCTTGAGCGCAGAAGTAGGGCAAATGGGTTCTAAGGGGTGGGGT
105891	T	C	S	AAAAGGTTCTTGAGCGCACAAGTAGGGCAAATGGGTTCTAAGGGGTGGGGT
105891	IS	[GC]		AGAGCTAGAAACATCAGATGCACGGGATAAAAGCTCGGTGTAAAAGGTTCTTGAGCGCA[GC]AAGTAGGGCAAATGGGTTCTAAGGGGTGGGGTGAGGGTTGGGAAG AAGAAGTAAACATG
105895	I		A	CAGTCACCAAGGTACAGCCACTTCAAATCAAGAGTGAT
105895	P	G	A	ATGACGTGGCAGACGCAAGTGTTTCTGCAATCY
105895	P	C	A	CGCGCCGAGGCCAAGTGTTTCTGCAATCTY
105895	T	G	A	AAATAGATTGCAGAAACACTTGCTCACTCTTGATTTGAAGTGGCTGTACCTTGGTGACTGGA
105895	T	C	A	AAATAGATTGCAGAAACACTTGGTCACTCTTGATTTGAAGTGGCTGTACCTTGGTGACTGGA
105895	IS	[GC]		ACAAGGCAGCTATACATTTGATCCAGTCACCAAGGTACAGCCACTTCAAATCAAGAGTGA[GC]CAAGTGTTTCTGCAATCTATTTTGTGATTTGTGGGGCAGGAATGGAG GGAAAGGTTTGGCA
105897	I		S	GGCCGCCTGTGGCATACAAGCACCT
105897	P	T	S	CGCGCCGAGGATCTTCTTCCACCCTCCY
105897	P	C	S	ATGACGTGGCAGACGTCTTCTTCCACCCTCCY
105897	T	T	S	CATTGGAGGGTGGAAGAAGATGGTGCTTGTATGCCACAGGGGCCGA
105897	T	C	S	CATTGGAGGGTGGAAGAAGACGGTGCTTGTATGCCACAGGGGCCGA
105897	IS	[TC]		GCTCAGGAAGAAGTGGGGCAAGCTTCTCTGCATATTCATGCATTGGAGGGTGGAAGAAGA[TC]GGTGCTTGTATGCCACAGGCGGCCGAGCTGCTTTGTGCCACTGCAT TCACCTTTCTGGA
105902	I		S	GCCTTTCTGAGTCTTTGTCATTCATTTGTATGTATATATGCGATTCCCTC
105902	P	A	S	CGCGCCGAGGTGAACATTCTGGAGTATCCY
105902	P	C	S	ATGACGTGGCAGACGGAACATTCTGGAGTATCCY
105902	T	A	S	TTTGGGATACTCCAAGAATGTTCAAGGGAATCGCATATATACATACAAATGAATGACAAAAGACTCAGAAAGGCAA
105902	T	C	S	TTTGGGATACTCCAAGAATGTTCCAGGGAATCGCATATATACATACAAATGAATGACAAAAGACTCAGAAAGGCAA
105902	IS	[AC]		TACTACGTATAGTGCCAAAAAAAGAGATACAAAAGGTTTGGGATACTCCAAGAATGTTC[AC]AGGGAATCGCATATATACATACAAATGAATGACAAAAGACTCAGA AAGGCAAAATCTCGT
105903	I		A	GAAGGGTATGGGAACCCTCAGGTAAATAAATAATCTTCAGGAGATAGAAGT
105903	P	G	A	ATGACGTGGCAGACGTGCTGAAGAGGTGTCAY
105903	P	A	A	CGCGCCGAGGATGCTGACAAGGTGTCAAY
105903	T	G	A	GCCCTTGACACCTCTCAGCACCTTCTATCTCCTGAAGATTATTTATTTACCTGAGGGTTCCCATACCCTTCCA
105903	T	A	A	GCCCTTGACACCTCTCAGCATCTTCTATCTCCTGAAGATTATTTATTTACCTGAGGGTTCCCATACCCTTCCA
105903	IS	[GA]		TGGGGTTCTGGAAGGGTATGGGAACCCTCAGGTAAATAAATAATCTTCAGGAGATAGAAG[GA]TGCTGAGAGGTGTCAAGGGCTGGGAGATGGGAAAACAATGAGAA AGTAGACAGGCAGGTT
105911	I		S	GGTGCCGCTTTACCAGAGAGGTATTCTGTACGTT
105911	P	C	S	ATGACGTGGCAGACGCTTTCTACTTTAATCACATCCY
105911	P	T	S	CGCGCCGAGGACTTTCTACTTTAATCACATCCTY
105911	T	C	S	TGAAAGGATGTGATTAAAGTAGAAAGCACGTACAGAATACCTCTCTGGTAAAGCGGCACCAT
105911	T	T	S	TGAAAGGATGTGATTAAAGTAGAAAGTACGTACAGAATACCTCTCTGGTAAAGCGGCACCAT
105911	IS	[CT]		AGAAGATAATCTGTCAGGCAAGATTCATGGTGCTGAAAGGATGTGATTAAAGTAGAAAG[CT]ACGTACAGAATACCTCTCTGGTAAAGCGGCACCATTTGGGCTCTCA GCCATGGCCAGAAA
105961	I		S	GGATGCTAAGAGATACACGCATTGCTTAGTTTCTTTCT
105961	P	T	S	CGCGCCGAGGACTCACCTCATGTGGTCY
105961	P	C	S	ATGACGTGGCAGACGCTCACCTCATGTGGTY
105961	T	T	S	ATATGACCACATGAGGTGAGTGAAAGAAACTAAGCAATGGGTGTATCTCTTAGCATCCTG

FIGURE 129C

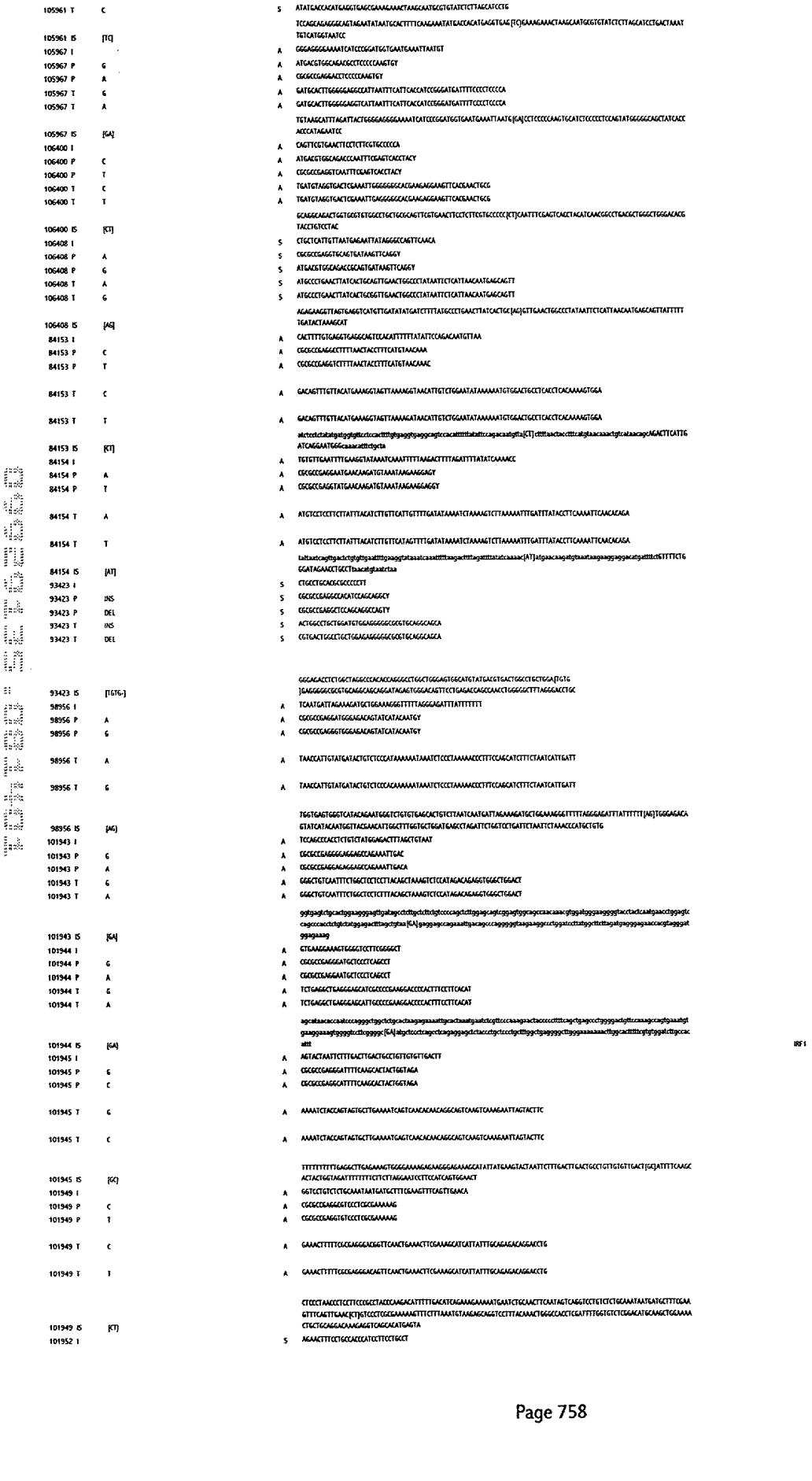


FIGURE 129C

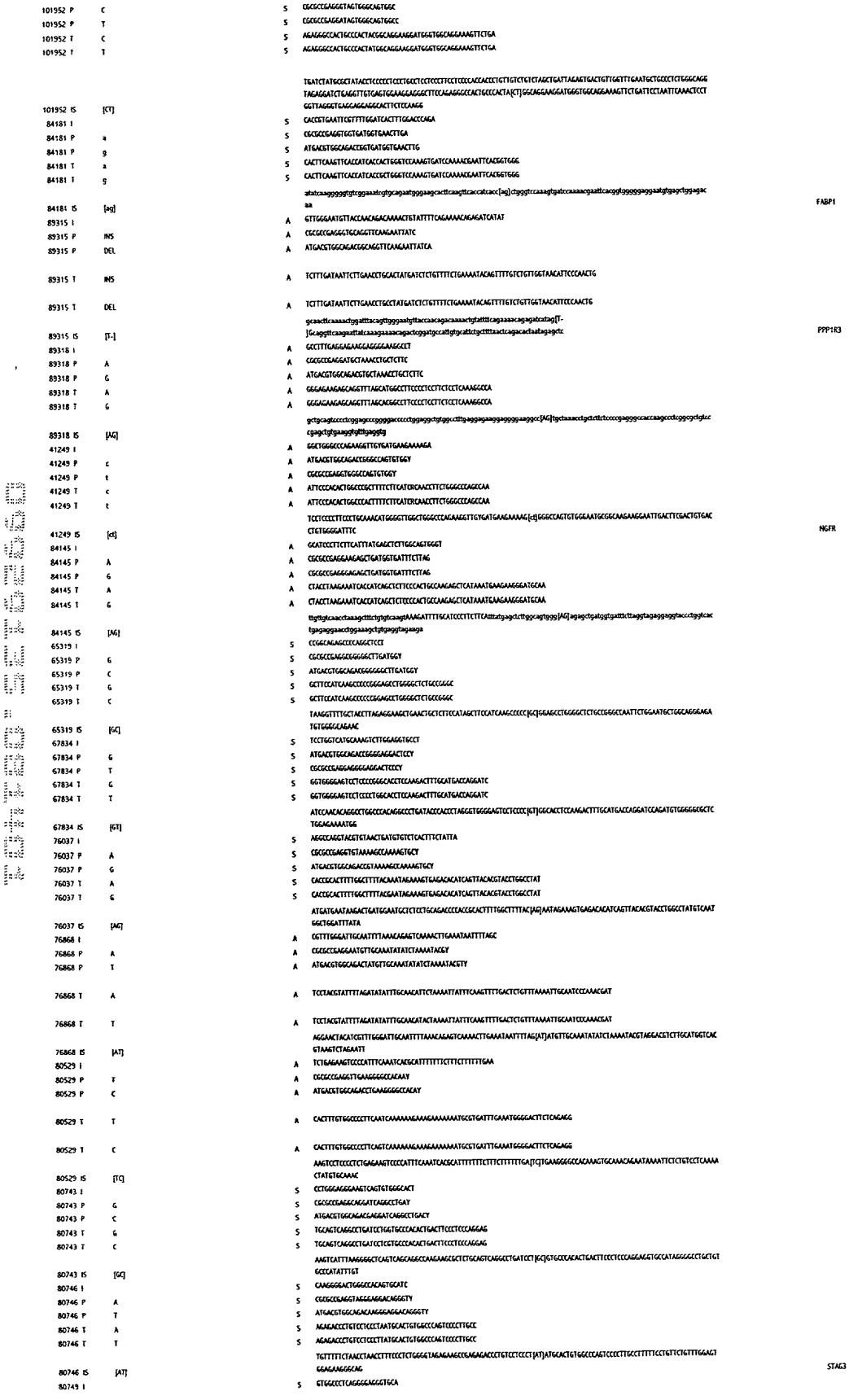

101952 P C S CGCGCCGAGGGTAGTGGGCAGTGGC
101952 P T S CGCGCCGAGGATAGTGGGCAGTGGCC
101952 T C S AGAGGGCCACTGCCCACTACGGCAGGAAGGATGGGTGGCAGGAAAGTTCTGA
101952 T T S AGAGGGCCACTGCCCACTATGGCAGGAAGGATGGGTGGCAGGAAAGTTCTGA
101952 IS [CT] TGATCTATGCGCTATACCTCCCCCTCCCTGCCTCCTCCCTTCCTCCCCACCACCCTGTTGTCTGTCTAGCTGATTAGAGTGACTGTTGGTTTGAATGCTGCCCTCTGGGCAGG TAGAGGATCTGAGGTTGTGAGTGGAAGGAGGGCTTCCAGAGGGCCACTGCCCACTA[CT]GGCAGGAAGGATGGGTGGCAGGAAAGTTCTGATTCCTAATTCAAACTCCT GGTTAGGGTGAGGAGGAGGCACTTCTCCAAGG
84181 I S CACCGTGAATTCGTTTTGGATCACTTTGGACCCAGA
84181 P a S CGCGCCGAGGTGGTGATGGTGAACTTGA
84181 P g S ATGACGTGGCAGACCGGTGATGGTGAACTTG
84181 T a S CACTTCAAGTTCACCATCACCACTGGGTCCAAAGTGATCCAAAACGAATTCACGGTGGG
84181 T g S CACTTCAAGTTCACCATCACCGCTGGGTCCAAAGTGATCCAAAACGAATTCACGGTGGG
84181 IS [ag] atatcaaggggtgtgtcggaaatcgtgcagaatgggaagcacttcaagttccaccatcacc[ag]ctgggtrcaaagtgatccaaaacgaattcacggtgggggaggaatgtgagctggagac aa FABP1
89315 I A GTTGGGAATGTTACCAACAGACAAAACTGTATTTTCAGAAAACAGAGATCATAT
89315 P INS A CGCGCCGAGGGTGCAGGTTCAAGAATTATC
89315 P DEL A ATGACGTGGCAGACGGCAGGTTCAAGAATTATCA
89315 T INS A TCTTTGATAATTCTTGAACCTGCACTATGATCTCTGTTTTCTGAAAATACAGTTTTGTCTGTTGGTAACATTCCCAACTG
89315 T DEL A TCTTTGATAATTCTTGAACCTGCCTATGATCTCTGTTTTCTGAAAATACAGTTTTGTCTGTTGGTAACATTCCCAACTG
89315 IS [T-] gcaacttcaaaactggatttacagttgggaatgttaccaacagacaaaactgtatttttcagaaaacagagatcatag[T-]]Gcaggttcaagaattatcaaagaaaacagactcggatgccatttgtcatttttactcagacactaatagagctc PPP1R3
89318 I A GCCTTTGAGGAGAAGCAGGGGAAGGCCT
89318 P A A CGGCCGCAGGATGCTAAACCTGCTCTTC
89318 P G A ATGACGTGGCAGACGTGCTAAACCTGCTCTTC
89318 T A A GGGAGAAGAGCAGGTTTAGCATGGCCTTCCCCTCCTTCTCCTCAAAGGCCA
89318 T G A GGGAGAAGAGCAGGTTTAGCACGGCCTTCCCCTCCTTCTCCTCAAAGGCCA
89318 IS [AG] gctgcagtccccctcggagccccgggacccctgaggctgtggcctttgaggagaaggagggaggcaaggcc[AG]tgctaaacctgctcttctcccctagggcacacaagcctcggcgctgtcc cgagctgtgaaggtgttttgaggtg
41249 I A GGCTGGGCCCAGAAGGTTGYGATGAAGAAAAGA
41249 P c A ATGACGTGGCAGACCGGGCCAGTGTGGY
41249 P t A CGGCCGAAGGTGGGCCAGTGTGGY
41249 T c A ATTCCCACACTGGCCCGCTTTTCTTCATCRCAACCTTCTGGGCCCAGCCAA
41249 T t A ATTCCCACACTGGCCCACTTTTCTTCATCRCAACCTTCTGGGCCCAGCCAA
41249 IS [ct] TCCTCCCCTTCCCTGCAAACATGGGGTTGGCTGGGCCCAGAAGGTTGYGATGAAGAAAAG[ct]GGGCCAGTGTGGGAATGCGGCAAGAAGGAATTGACTTCGACTGTGAC CTGTGGGGATTTC NGFR
84145 I A GCATCCCTTCTTCATTTATGAGCTCTTGGCAGTGGGT
84145 P A A CGCGCCGAGGAAGAGCTGATGGTGATTTCTTAG
84145 P G A CGCGCCGAGGAGAGCTGATGGTGATTTCTTAG
84145 T A A CTACCTAAGAAATCACCATCAGCTCTTCCCACTGCCAACAGCTCATAAATGAAGAAGGGATGCAA
84145 T G A CTACCTAAGAAATCACCATCAGCTCTTCCCACTGCCAACAGCTCATAAATGAAGAAGGGATGCAA
84145 IS [AG] ttgttgtcaacctaaagctttctgtgtcaagtAAAGATTTTGCATCCCTTCTTCAtttatgagctctggcagtggg[AG]agagctgatggtgatttcttaggtagaggaggtacctggtcac tgagaggaacctggaaagctgtgaggtagaaga
65319 I S CCGGCAGAGCCCCAGGCTCCT
65319 P G S CGCGCCGAGGGGGGGGCTTGATGGY
65319 P C S ATGACGTGGCAGACGGGGGCTTGATGGY
65319 T G S GCTTCCATCAAGCCCCCGGGAGCCTGGGGCTCTGCCGGGC
65319 T C S GCTTCCATCAAGCCCCCGGAGCCTGGGGCTCTGCCGGGC
65319 IS [GC] TAAGGTTTTGCTACCTTAGAGGAAGCTGAACTGCTCTTCCATAGCTTCCATCAAGCCCCC[GC]GGAGCCTGGGGCTCTGCCGGGCCAATTCTGGAATGCTGGCAGGGAGA TGTGGGGCAGAAC
67834 I S TCCTGGTCATGCAAAGTCTTGGAGGTGCCT
67834 P G S ATGACGTGGCAGACGGGGAGGACTCCY
67834 P T S CGCGCCGAGGAGGGGAGGACTCCCY
67834 T G S GGTGGGGAGTGCTCCCCGGGCACCTCCAAGACTTTGCATGACCAGGATC
67834 T T S GGTGGGGAGTGCTCCCCTGGCACCTCCAAGACTTTGCATGACCAGGATC
67834 IS [GT] ATCCAACACAGGCCTGGCCCACAGGCCCTGATACCCACCCTAGGGTGGGGAGTCCTCCCC[GT]GGCACCTCCAAGACTTTGCATGACCAGGATCCAGATGTGGGGGGCTC TGGAGAAAATGG
76037 I S AGGCCAGGTACGTGTAACTGATGTGTCTCACTTTCTATTA
76037 P A S CGCGCCGAGGTGTAAAGGCAAAAGTGCT
76037 P G S ATGACGTGGCAGACCGTAAAAGCCAAAAGTGCY
76037 T A S CACCGCACTTTTGGCTTTTACAAATAGAAAGTGAGACACATCAGTTACACGTACCTGGCCTAT
76037 T G S CACCGCACTTTTGGCTTTTACGAATAGAAAGTGAGACACATCAGTTACACGTACCTGGCCTAT
76037 IS [AG] ATGATGAATAAGACTGATGGAATGCTCTCCTGCAGACCCCACCGCACTTTTGGCTTTTAC[AG]AATAGAAAGTGAGACACATCAGTTACACGTACCTGGCCTATGTCAAT GGCTGGATTTATA
76868 I A CGTTTGGGAATTGCAATTTTAAACAGAGTCAAAACTTGAAATAATTTTAGC
76868 P A A CGCGCCGAGGAATGTTGCAAATATATCTAAAATACGY
76868 P T A ATGACGTGGCAGACTATGTTGCAAATATATCTAAAATACGTY
76868 T A A TCCTACGTATTTTAGATATATTTGCAACATTCTAAAATTATTTCAAGTTTTGACTCTGTTTAAAATTGCAATCCCAAACGAT
76868 T T A TCCTACGTATTTTAGATATATTTGCAACATACTAAAATTATTTCAAGTTTTGACTCTGTTTAAAATTGCAATCCCAAACGAT
76868 IS [AT] AGGAACTACATCGTTTGGGATTGCAATTTTAAACAGAGTCAAAACTTGAAATAATTTTAG[AT]ATGTTGCAAATATATCTAAAATACGTAGGACACTCTTGCATGGTCAC GTAAGTCTAGAATT
80529 I A TCTGAGAAGTCCCATTTCAAATCAEGCATTTTTTCTTTCTTTTTTGAA
80529 P T A CGCGCCGAGGTTGAAGGGGCCACAAY
80529 P C A ATGACGTGGCAGACCTGAAGGGGCCACAY
80529 T T A CACTTTGTGGCCCCTTCAATCAAAAAAGAAAGAAAAAATGCGTGATTTGAAATGGGGACTTCTCAGAGG
80529 T C A CACTTTGTGGCCCCTTCAGTCAAAAAAGAAAGAAAAAATGCGTGATTTGAAATGGGGACTTCTCAGAGG
80529 IS [TC] AAGTCCTCCCCTCTGAGAAGTCCCCATTTCAAATCACGCATTTTTTTCTTTCTTTTTGA[TC]TGAAGGGGCCACAAAGTGCAAACAGAATAAAATTCTCTGTCCTCAAAA CTATGTGCAAAC
80743 I S CCTGGGAGGGAAGTCAGTGTGGGCACT
80743 P G S CGCGCCGAGGCAGGATTAGGCCTGAY
80743 P C S ATGACGTGGCAGACAGGATCAGGCCTGACT
80743 T G S TGCAGTCAGGCCTGATCCTGGTGCCCACACTGACTTCCCTCCCAGGAG
80743 T C S TGCAGTCAGGCCTGATCCTCGTGCCCACACTGACTTCCCTCCCAGGAG
80743 IS [GC] AAGTCATTTAAGGGGCTCAGTCAGCAGGCCAAGAAGCGCTCTGCAGTCAGGCCTGATCCT[GC]GTGCCCACACTGACTTCCCTCCCAGGAGGTGCCATAGGGGCCTGCTGT GCCCATATTTGT
80746 I S CAAGGGGACTGGGCCACAGTGCATC
80746 P A S CGCGCCGAGGTAGGGAGGACAGGGTY
80746 P T S ATGACGTGGCAGACAAGGAGGACAGGGTY
80746 T A S AGAGACCCTGTCCTCCCTAATGCACTGTGGCCCAGTCCCCTTGCC
80746 T T S AGAGACCCTGTCCTCCCTTATGCACTGTGGCCCAGTCCCCTTGCC
80746 IS [AT] TGTTTTTCTAACCTAACCTTTCCCTCTGGGGTAGAGAAGCCGAGAGACCCTGTCCTCCCT[AT]ATGCACTGTGGCCCAGTCCCCTTGCCTTTTCCTGTTCTGTTTGGAGT GGAGAGGGCAG STAG3
80749 I S GTGGCCCTCAGGGGAGGGTGCA

FIGURE 129C

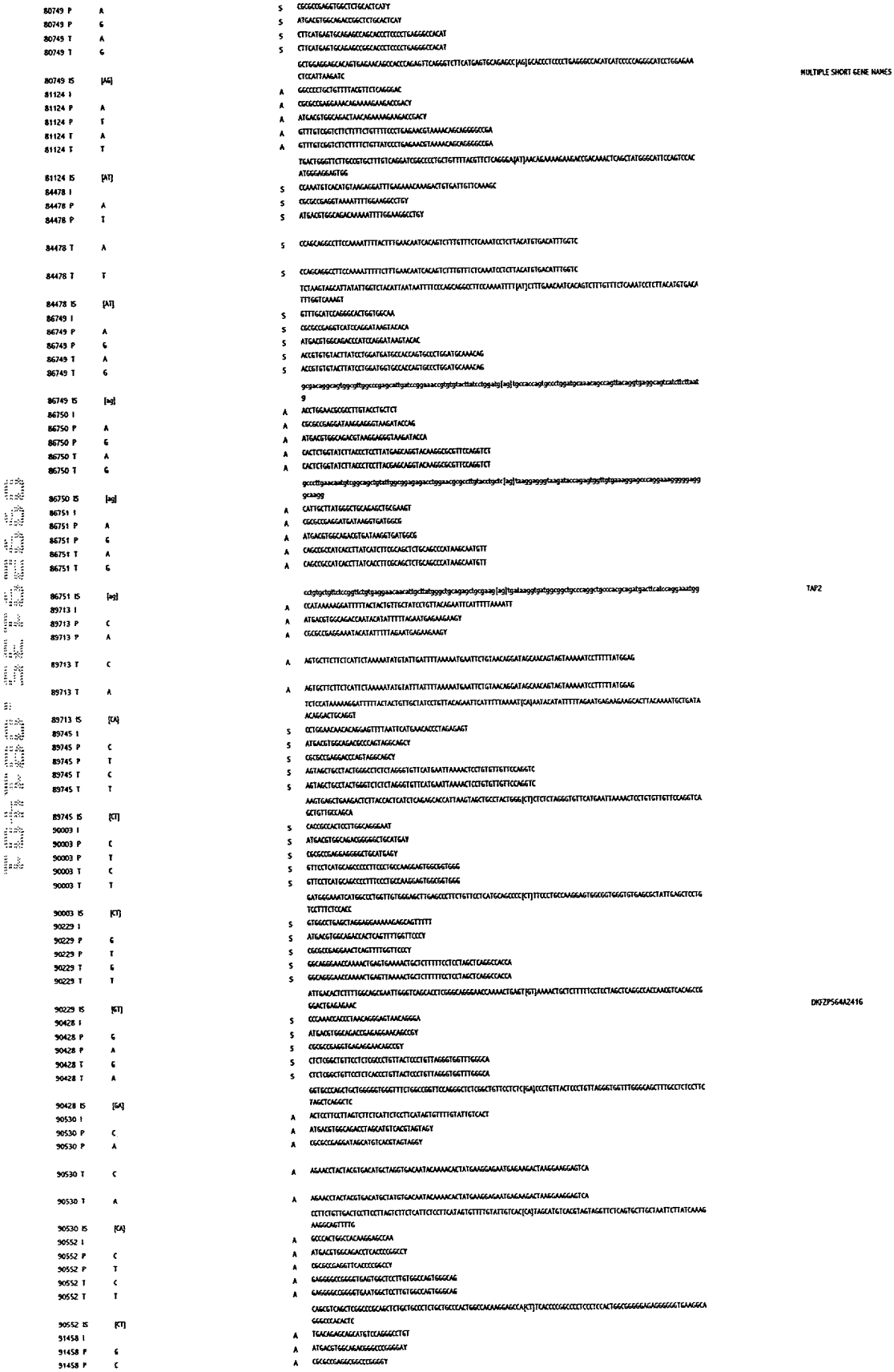
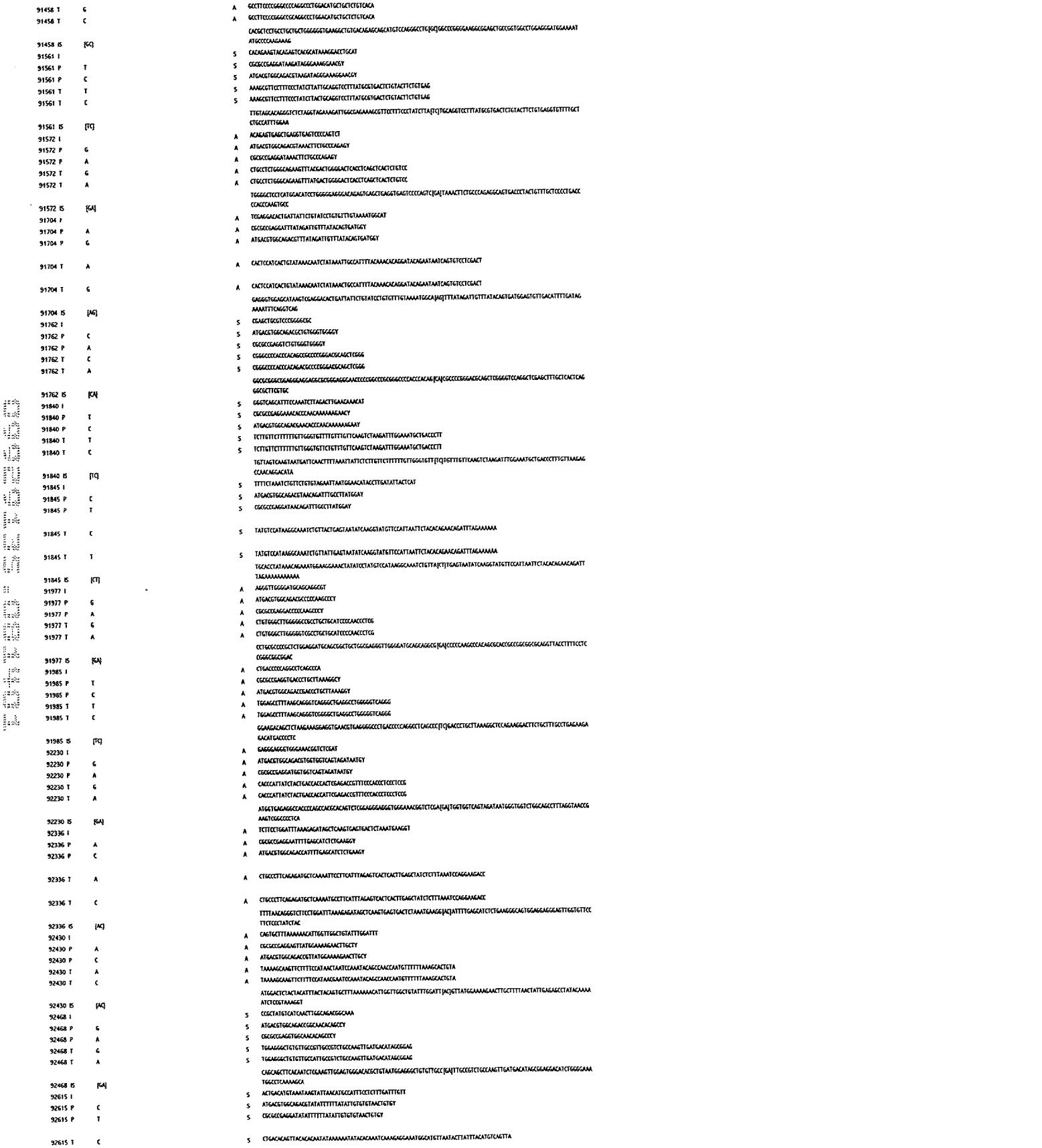
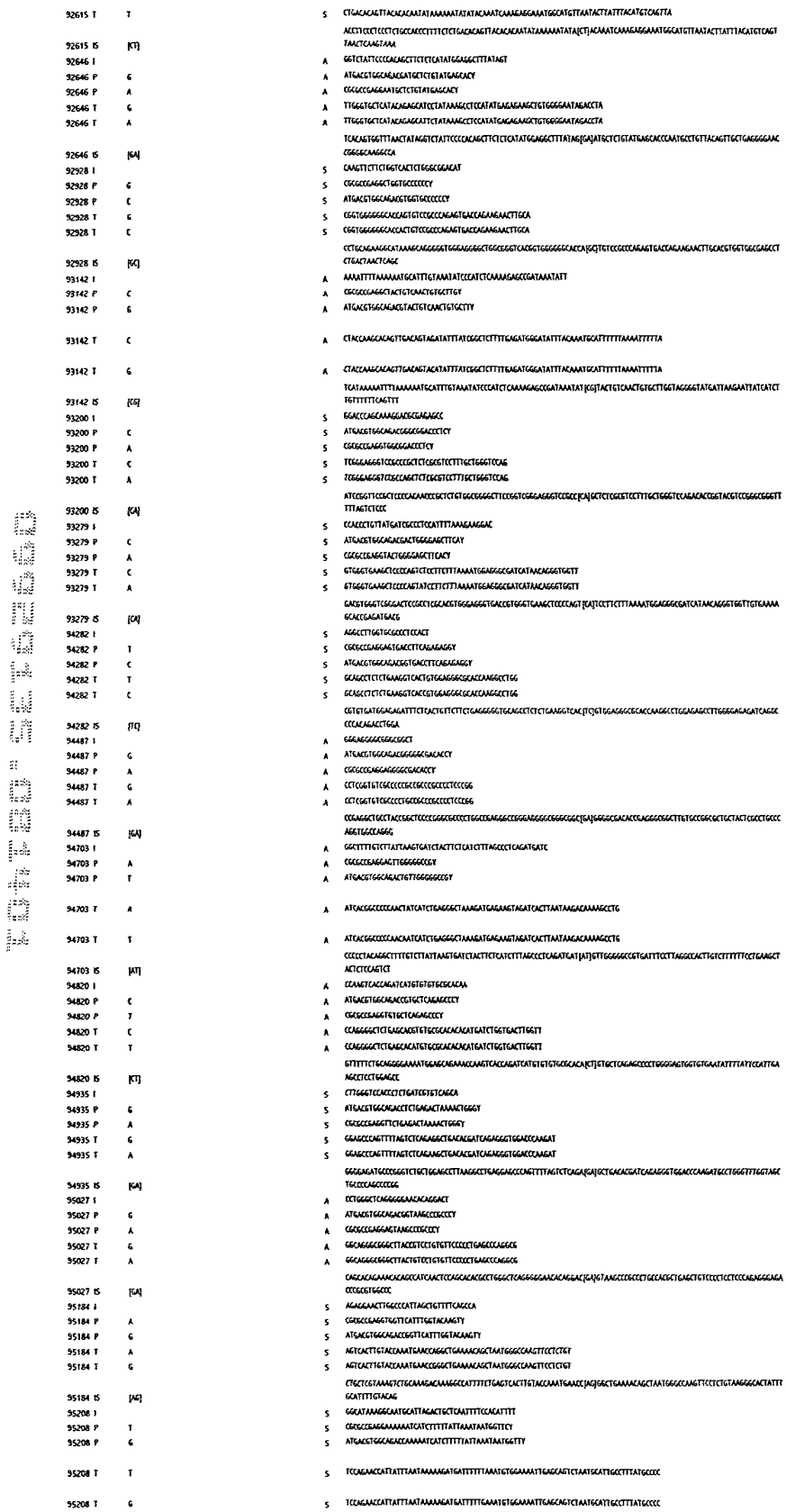


FIGURE 129C





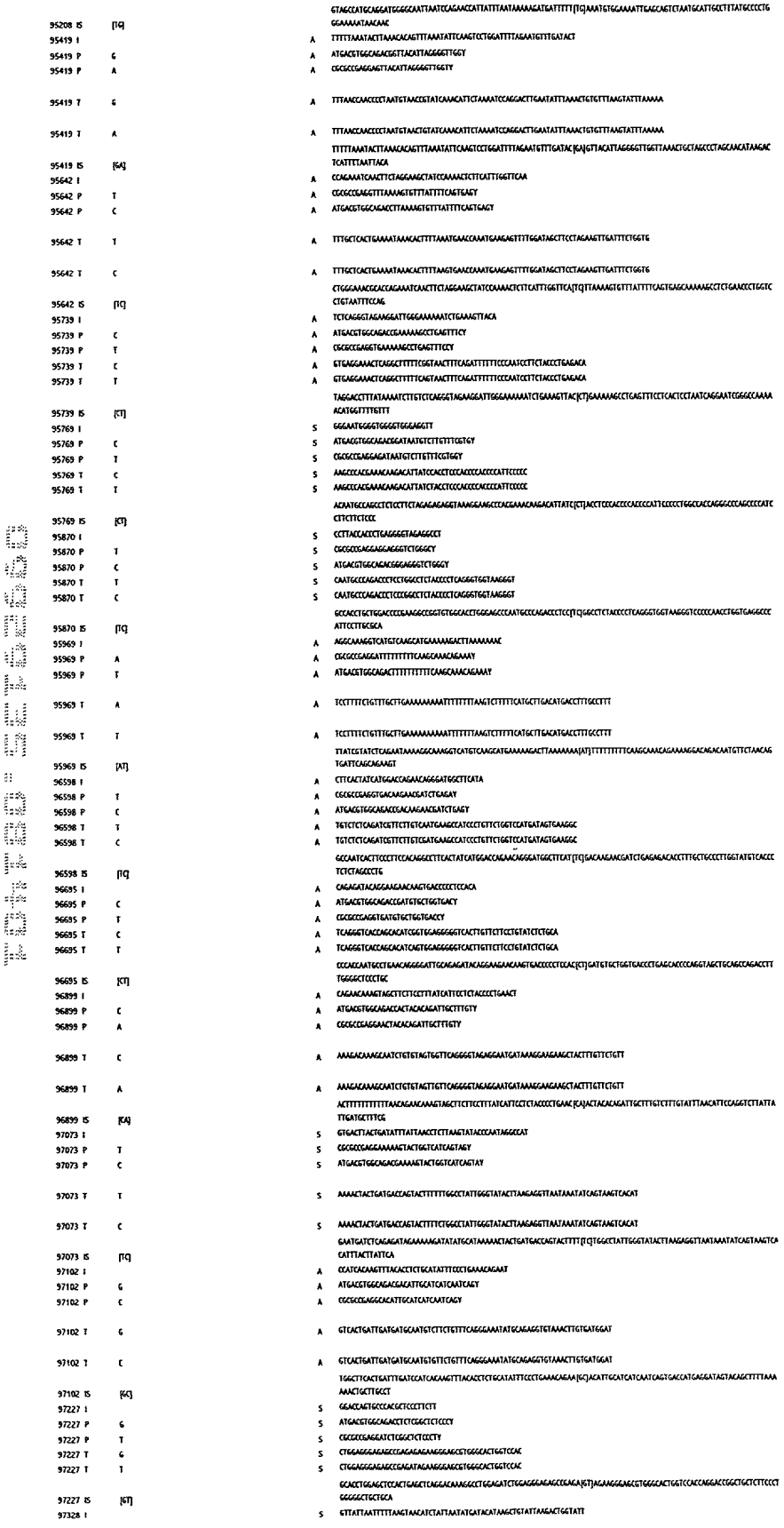


FIGURE 129C

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97328 P   T    S  CGCGCCGAGCATAATTCTGTGTGTGTAAAGTTGY
97328 P   C    S  ATGACGTGGCAGACGTAATTCTGTGTGTGTAAAGTTGY

97328 T   T    S  GCCACAACTTTACACACACAGAATTATATACCAGTCTTAATACAGCTTATGTATCATATTAATAGATGTTACTTAAAAATTAATAAC

97328 T   C    S  GCCACAACTTTACACACACAGAATTACATACCAGTCTTAATACAGCTTATGTATCATATTAATAGATGTTACTTAAAAATTAATAAC

97328 IS  [TC]   GATTTTTGAAATGTTTTAATGCACATTCTACTTAGCCACACACTTTACACACACAGAATTA[TC]ATACCAGTCTTAATACAGCTTATGTATCATATTAATAGATGTTACTT
                 AAAATTAATAAC
97403 I          S  GCTGGTTTGTGGGGTGATCATATACTATAGTAAATACGACATACTGTTAAGGGTTAT
97403 P   T    S  CGCGCCGAGGATAGGTGGCTGTTTTCTGY
97403 P   G    S  ATGACGTGGCAGACCTAGGTGGCTGTTTTCTGY

97403 T   T    S  AACACAGAAAACAGCCACCTATTAACCCTTAACAGTATGTCGTATTTACTATAGTATATGATCACCCACAAACCAGCTT

97403 T   G    S  AACACAGAAAACAGCCACCTAGTAACCCTTAACAGTATGTCGTATTTACTATAGTATATGATCACCCACAAACCAGCTT

97403 IS  [TG]   AGAAGGAACAGCATAAAGATATTACGATCTCCAGGAACAAACACAGAAAACAGCCACCTA[TG]TAACCCTTAACAGTATGTCGTATTTACTATAGTATATGATCACCCA
                 CAAACCAGCTTTGT
97624 I          S  CCTAAGTGACAGGATTTTCTTCATCACGACACCCTCTATCTT
97624 P   T    S  CGCGCCGAGGAGGAGAGATGTGTACTCTCY
97624 P   C    S  ATGACGTGGCAGACGAGGAGAGATGTGTACTCTY

97624 T   T    S  CAGGGAGAGTACACATCTCTCCTTAGATAGAGGGTGTCGTGATGAAGAAAATCCTGTCACTTAGGTG

97624 T   C    S  CAGGGAGAGTACACATCTCTCCTCAGATAGAGGGTGTCGTGATGAAGAAAATCCTGTCACTTAGGTG

97624 IS  [TC]   CAGTTTCCCGTTTATTTCATGTTTATCTCATCGGAGTCAGGGAGAGTACACATCTCTCCT[TC]AGATAGAGGGTGTCGTGATGAAGAAAATCCTGTCACTTAGGTGATGG
                 GAGAGGAGGGCAG
97668 I          S  AGGAAATCCAAGCCAGCGGAAGGTGAGAACT
97668 P   G    S  CGCGCCGAGGCCTTGCCAGAGCCCY
97668 P   C    S  ATGACGTGGCAGACGCTTGCCAGAGCCY
97668 T   G    S  TCCCGGGCTCTGGCAAGGGTTCTCACCTTCCGCTGGCTTGGATTTCCTGA
97668 T   C    S  TCCCGGGCTCTGGCAAGCGTTCTCACCTTCCGCTGGCTTGGATTTCCTGA

97668 IS  [GC]   GACAGCAGGATCCTGAGGCAACGCAGATGGGGCGGTAGGGTGTCCCGGGCTCTGGCAAG[GC]GTTCTCACCTTCCGCTGGCTTGGATTTCCTGATGTTTCTGTCCTGAG
                 CGGTACAGCCTGT
97711 I          S  AGATTTTCTAACTACATTTTTTCAGGAAACAATTCTCTTCAAGAAACAGAT
97711 P   T    S  CGCGCCGAGGATGAAGTTAATCACTGGCCY
97711 P   C    S  ATGACGTGGCAGACGTGAAGTTAATCACTGGCCY

97711 T   T    S  GAGGGGCCAGTGATTAACTTCATTCTGTTTCTTGAAGACAATTGTTTCCTGAAAAAATGTAGTTAGAAAATCTGG

97711 T   C    S  GAGGGGCCAGTGATTAACTTCACTCTGTTTCTTGAAGACAATTGTTTCCTGAAAAAATGTAGTTAGAAAATCTGG

97711 IS  [TC]   CTGCTTTTATGAGGAAGGAATCCTGAGCAAAGAAAATGGGAGGGGCCAGTGATTAACTTCA[TC]TCTGTTTCTTGAAGACAATTGTTTCCTGAAAAAATGTAGTTAGAAA
                 ATCTGGTTTAATTT
97720 I          S  CATTCAGTGACTGGGGGGCGGGGC
97720 P   A    S  CGCGCCGAGGCTCTCAGGGTGGGGGTY
97720 P   T    S  ATGACGTGGCAGACACTCAGGGTGGGGTY
97720 T   A    S  TCCCACCCCACCCTGAGACCCCGCCCCCCAGTCACTGAATGAC
97720 T   T    S  TCCCACCCCACCCTGAGTCCCCGCCCCCCAGTCACTGAATGAC

97720 IS  [AT]   GACATTGAGGTGGACGGCAAGCAGGTGAAGGCAGAAATGCCCTTCCCACCCCACCCTGAG[AT]CCCCGCCCCCCAGTCACTGAATGACCTAGTATGTCCTTCCCCATTCCT
                 ACCCCTGTCTTT
97750 I          S  GCATGAATGTCTGCTGGGGAAAATAGCCAAACTGTTCTTAC
97750 P   A    S  CGCGCCGAGGTTGAATAGGTGTTTGAACTTGTY
97750 P   T    S  ATGACGTGGCAGACATGAATAGGTGTTTGAACTTGTY

97750 T   A    S  ACTGACAAGTTCAAACACCTATTCAATAAGAACAGTTTGGCTATTTTCCCCAGCAGACATTCATGCAA

97750 T   T    S  ACTGACAAGTTCAAACACCTATTCATTAAGAACAGTTTGGCTATTTTCCCCAGCAGACATTCATGCAA

97750 IS  [AT]   GATCAGATCCTTCAATGAATATGTTCTTCTCTATTACTGACAAGTTCAAACACCTATTCA[AT]TAAGAACAGTTTGGCTATTTTCCCCAGCAGACATTCATGCAAGTATG
                 TATGGTATTGTTT
97755 I          S  GACTTTCAGAGTCTTTGCATGTAGTTGACGAAAACAAAATGAATCCAAAC
97755 P   T    S  CGCGCCGAGGATAGAAAGAGAACATAAAAGACGGY
97755 P   A    S  ATGACGTGGCAGACTTAGAAAGAGAACATAAAAGACGY

97755 T   T    S  ATGTCCGTCTTTTATGTTCTCTTTCTATTTTGGATTCATTTTTGTTTTCGTCAACTACATGCAAAGACTCTGAAAGTCTC

97755 T   A    S  ATGTCCGTCTTTTATGTTCTCTTTCTAATTTGGATTCATTTTTGTTTTCGTCAACTACATGCAAAGACTCTGAAAGTCTC

97755 IS  [TA]   CTTCCTGTACCCCCTCCATGATAACAGGGGTAGATGTCCGTCTTTTATGTTCTCTTTCTA[TA]TTTGGATTCATTTTTGTTTTCGTCAACTACATGCAAAGACTCTGAAAG
                 TCTCCGGGCAGG
97774 I          S  CTTCTGGGGATCCTTAAGGTGATAAGTCTTGTCTTCTCCAAT
97774 P   C    S  ATGACGTGGCAGACGGAGAGAGGAAAGCTCCY
97774 P   G    S  CGCGCCGAGGCAGAGAGGAAAGCTCCY
97774 T   C    S  GAGGGGAGCTTTCCTCTCTCCTTGGAGAAGACAAGACTTATCACCTTAAGGATCCCCAGAAGAA
97774 T   G    S  GAGGGGAGCTTTCCTCTCTGGTTGGAGAAGACAAGACTTATCACCTTAAGGATCCCCAGAAGAA

97774 IS  [CG]   TCCTTCAGAGATGTCAGATGTGGAAAGATCTACTGCACTGGAGGGGAGCTTTCCTCTCTC[CG]TTGGAGAAGACAAGACTTATCACCTTAAGGATCCCCAGAAGAATGCT
                 ACTGTCAAATGCA
97777 I          A  ACAAGCAGCCAGCATAAGAGGCCGT
97777 P   A    A  CGCGCCGAGGAGGGCGAGGTGCY
97777 P   C    A  ATGACGTGGCAGACCGGGCGAGGTGCY
97777 T   A    A  AGCTGCACCTCGCCCTCGGGCTCTTATGCTGCCTGCTTGTAA
97777 T   C    A  AGCTGCACCTCGCCCCGGGGCTCTTATGCTGCCTGCTTGTAA

97777 IS  [AC]   CACTGTTGCTTGCTGATCATCTTTTGTGTTGTTATTACAAGCAGGCAGCATAAGAGGCCC[AC]GGGCGAGGTGCAGCTGGCAACAGAGCCCCAGGGCCTAGGGGTTCCTA
                 CCTCGGGGGATAT
97890 I          A  GGTGGAAGTCAATGATATTAAAAATTCATTTGAGAGAGGTAATTGCAGTCTT
97890 P   A    A  CGCGCCGAGGATCCCTATAAGCAAACCACY
97890 P   G    A  ATGACGTGGCAGACGTCCCTATAAGCAAACCACY

97890 T   A    A  CAACGTGGTTTGCTTATAGGGATAGACGTGCAATTACCTCTCTCAAATGAATTTTTAATATCATTGACTTCCACCTG

97890 T   G    A  CAACGTGGTTTGCTTATAGGGACAGACGTGCAATTACCTCTCTCAAATGAATTTTTAATATCATTGACTTCCACCTG

97890 IS  [AG]   GGTTCCCAGGTGGAAGTCAATGATATTAAAAATTCATTTGAGAGAGGTAATTGCAGTCT[AG]TCCCTATAAGCAAACCACGTTCAAAAGTCATCATGTTCTGTAAACT
                 GAAGTGGCACCCTT
97909 I          S  GAGGTTATCAAAAAAATGAACCATTTCTTGATGAGTAGTCTAAGTAAAAACT
97909 P   C    S  ATGACGTGGCAGACGGAAAAAATTGCATTACAGGAT
97909 P   T    S  CGCGCCGAGGAGAAAAAATTGCATTACAGGATAAY

97909 T   C    S  TGAATTATCCTGTAATGCAATTTTTTCCGTTTTTACTTAGACTACTCATCAAGAAATGGTTCATTTTTTTTGATAACCTCGG

97909 T   T    S  TGAATTATCCTGTAATGCAATTTTTTCTGTTTTTACTTAGACTACTCATCAAGAAATGGTTCATTTTTTTTGATAACCTCGG

97909 IS  [CT]   TGATACATCATCCATATCCTGTTTTAACAATGTTGAATTATCCTGTAATGCAATTTTTTC[CT]GTTTTTACTTAGACTACTCATCAAGAAATGGTTCATTTTTTTTGATA
                 ACCTCGGGAATGT
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FIGURE 129C

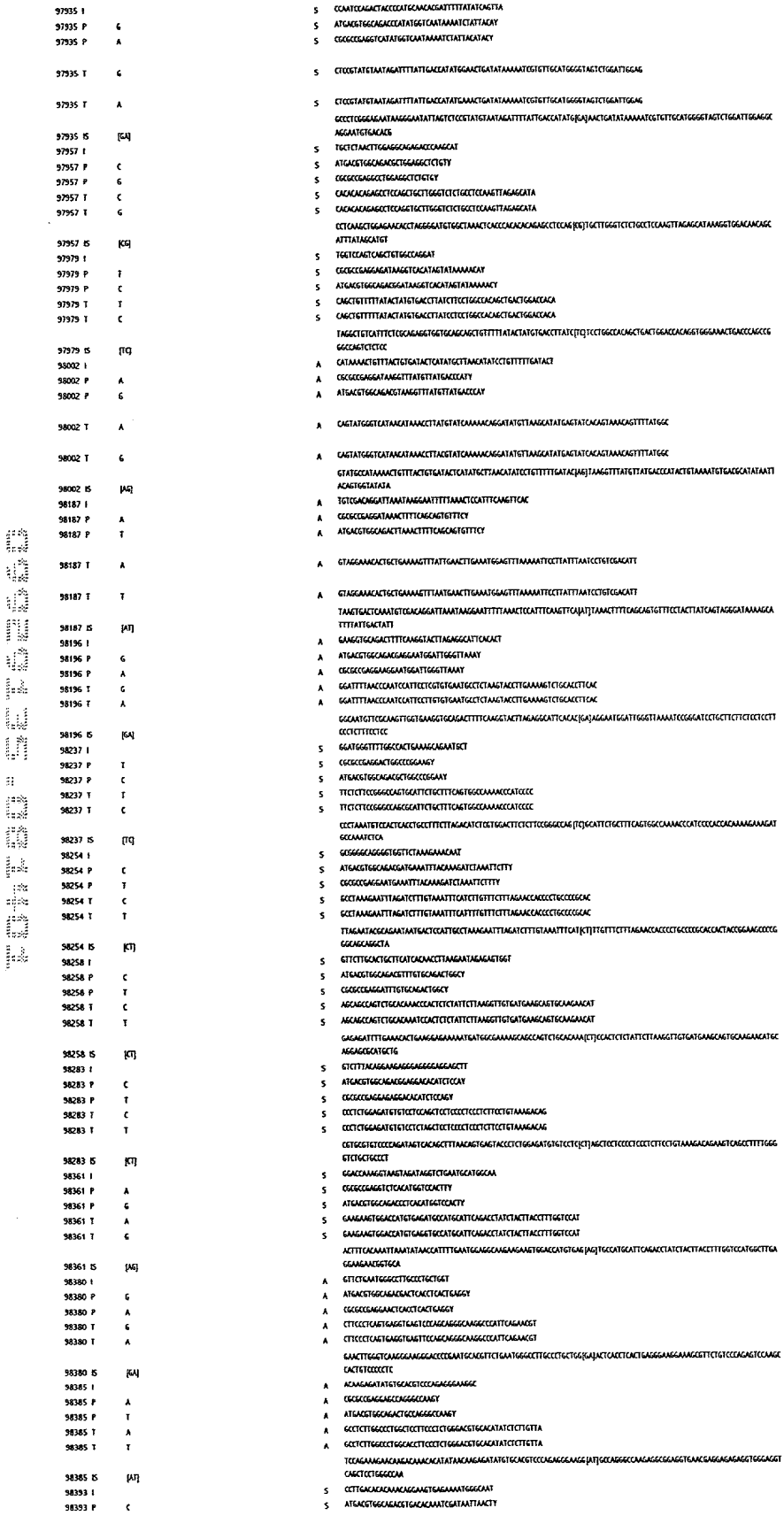

97935 1 S CCAATCCAGACTACCCCATGCAACACGATTTTTATATCAGTTA
97935 P G S ATGAGGTGGCAGACCCATATGGTCAATAAAATCTATTACAY
97935 P A S CGGGCCCAGGTCATATGGTCAATAAAATCTATTACATACY
97935 T G S CTCCGTATGTAATAGATTTTATTGACCATATGGAACTGATATAAAAATCGTGTTGCATGGGGTAGTCTGGATTGGAG
97935 T A S CTCCGTATGTAATAGATTTTATTGACCATATGAAACTGATATAAAAATCGTGTTGCATGGGGTAGTCTGGATTGGAG
97935 IS [GA] GCCCTCGGGAGAATAAGGGAATATTAGTCTCCGTATGTAATAGATTTTATTGACCATATG[GA]AACTGATATAAAATCGTGTTGCATGGGGTAGTCTGGATTGGAGGC AGGAATGTGACACG
97957 1 S TGCTCTAACTTGGAGGCAGAGACCCAAGCAT
97957 P C S ATGACGTGGCAGACGCTGGAGGCTCTGTY
97957 P G S CGCGCCGAGGCCTGGAGGCTCTGTGY
97957 T C S CACACACAGAGCCTCCAGCTGCTTGGGTCTCTGCCTCCAAGTTAGAGCATA
97957 T G S CACACACAGAGCCTCCAGCTGCTTGGGTCTCTGCCTCCAAGTTAGAGCATA
97957 IS [CG] CCTCAAGCTGGAGAACACCTAGGGGATGTGGCTAAACTCACCCACACACAGAGCCTCCAG[CG]TGCTTGGGTCTCTGCCTCCAAGTTAGAGCATAAAGGTGGACAACAGC ATTTATAGCATGT
97979 1 S TGGTCCAGTCAGCTGTGGCCAGGAT
97979 P T S CGCGCCGAGGAGATAAGGTCACATAGTATAAAAACAY
97979 P C S ATGACGTGGCAGACGGATAAGGTCACATAGTATAAAAACY
97979 T T S CAGCTGTTTTTATACTATGTGACCTTATCTTCCTGGCCACAGCTGACTGGACCACA
97979 T C S CAGCTGTTTTTATACTATGTGACCTTATCCTCCTGGCCACAGCTGACTGGACCACA
97979 IS [TC] TAGGCTGTCATTTCTCGCAGAGGTGGTGCAGCAGCTGTTTTATACTATGTGACCTTATC[TC]CCTGGCCACAGCTGACTGGACCACAGGTGGGAAACTGACCCAGCCG GGCCAGTCTCTCC
98002 1 A CATAAAACTGTTTACTGTGATACTCATATGCTTAACATATCCTGTTTTTGATACT
98002 P A A CGCGCCGAGGATAAGGTTTATGTTATGACCCATY
98002 P G A ATGACGTGGCAGACGTAAGGTTTATGTTATGACCCAY
98002 T A A CAGTATGGGTCATAACATAAACCTTATGTATCAAAAACAGGATATGTTAAGCATATGAGTATCACAGTAAACAGTTTTATGGC
98002 T G A CAGTATGGGTCATAACATAAACCTTACGTATCAAAAACAGGATATGTTAAGCATATGAGTATCACAGTAAACAGTTTTATGGC
98002 IS [AG] GTATGCCATAAAACTGTTTACTGTGATACTCATATGCTTAACATATCCTGTTTTTGATAC[AG]TAAGGTTTATGTTATGACCCATACTGTAAAATGTGACGCATATAATT ACAGTGGTATATA
98187 1 A TGTCGACAGGATTAAATAAGGAATTTTTAAACTCCATTTCAAGTTCAC
98187 P A A CGCGCCGAGGATAAACTTTCAGCAGTGTTTCY
98187 P T A ATGACGTGGCAGACTTAAACTTTCAGCAGTGTTTCY
98187 T A A GTAGGAAACACTGCTGAAAAGTTTATTGAACTTGAAATGGAGTTTAAAAATTCCTTATTTAATCCTGTCGACATT
98187 T T A GTAGGAAACACTGCTGAAAAGTTTAATGAACTTGAAATGGAGTTTAAAAATTCCTTATTTAATCCTGTCGACATT
98187 IS [AT] TAAGTGACTCAAATGTCGCACAGGATTAAATAAGGAATTTTTAAACTCCATTTCAAGTTCA[AT]TAAACTTTCAGCAGTGTTTCCTACTTATCAGTAGGGATAAAAGCA TTTTATTGACTATT
98196 1 A GAAGGTGCAGACTTTTCAAGGTACTTAGAGGCATTCACACT
98196 P G A ATGACGTGGCAGACGAGGAATGGATTGGGTTAAAY
98196 P A A CGCGCCGAGGAAGGAATGGATTGGGTTAAAY
98196 T G A GGATTTTAACCCAATCCATTCCTCGTGTGAATGCCTCTAAGTACCTTGAAAAGTCTGCACCTTCAC
98196 T A A GGATTTTAACCCAATCCATTCCTTGTGTGAATGCCTCTAAGTACCTTGAAAAGTCTGCACCTTCAC
98196 IS [GA] GGCAATGTTCGCAAGTTGGTGAAGGTGCAGACTTTTCAAGGTACTTAGAGGCATTCACAC[GA]AGGAATGGATTGGGTTAAAATCCGGGATCCTGCTTCTTCTCCTCCTT CCCTCTTTCCTCC
98237 1 S GGATGGGTTTTGGCCACTGAAAGCAGAATGCT
98237 P T S CGCGCCGAGGACTGGCCCGGAAGY
98237 P C S ATGACGTGGCAGACGCTGGCCCGGAAY
98237 T T S TTCTCTTCCGGGCCAGTGCATTCTGCTTTCAGTGGCCAAACCCATCCCC
98237 T C S TTCTCTTCCGGGCCAAGCGCATTCTGCTTTCAGTGGCCAAACCCATCCCC
98237 IS [TC] CCCTAAATGTCCACTCACCTGCCTTCTTAGACATCTCGTGACTTCTCTTCCGGGCCAG[TC]GCATTCTGCTTTCAGTGGCCAAACCCATCCCCACCACAAAAGAAAGAT GCCAAATCTCA
98254 1 S GCGGGGCAGGGGTGGTTCTAAAGAAACAT
98254 P C S ATGACGTGGCAGAGGATGAAATTTACAAAGATCTAAATTCTTY
98254 P T S CGCGCCGAGGAATGAAATTTACAAAGATCTAAATTCTTTY
98254 T C S GCCTAAAGAATTTAGATCTTTGTAAATTTCATCTTGTTTCTTTAGAACCACCCCTGCCCCGCAC
98254 T T S GCCTAAAGAATTTAGATCTTTGTAAATTTCATTTTGTTTCTTTAGAACCACCCCTGCCCCGCAC
98254 IS [CT] TTAGAATACGCAGAATAATGACTCCATTGCCTAAAGAATTTAGATCTTTGTAAATTTCAT[CT]TTGTTTCTTTAGAACCACCCCTGCCCCGCACCACTACCGGAAGCCCCG GGCAGCAGGCTA
98258 1 S GTTCTTGCACTGCTTCATCACAACCTTAAGAATAGAGAGTGGT
98258 P C S ATGACGTGGCAGACGTTTGTGCAGACTGGCY
98258 P T S CGCGCCGAGGATTTGTGCAGACTGGCY
98258 T C S AGCAGCCAGTCTGCACAAATCCACTCTCTATTCTTAAGGTTGTGATGAAGCAGTGCAAGAACAT
98258 T T S AGCAGCCAGTCTGCACAAATCCACTCTCTATTCTTAAGGTTGTGATGAAGCAGTGCAAGAACAT
98258 IS [CT] GAGAGATTTTGAAACACTGAAGAGAAAAATGATGGCGAAAAGCAGCCAGTCTGCACAAA[CT]CCACTCTCTATTCTTAAGGTTGTGATGAAGCAGTGCAAGAACATGC AGGAGGCATGCTG
98283 1 S GTCTTTACAGGAAGAGGCAGGGGAGGAGCTT
98283 P C S ATGACGTGGCAGAGGAGGAACACATCTCCAY
98283 P T S CGCGCCGAGGAGGACACATCTCCAGY
98283 T C S CCCTCTGGAGATGTGTCCTCCAGCTCCTCCCCTCCCTCTTCCTGTAAAGACAG
98283 T T S CCCTCTGGAGATGTGTCCTCAGCTCCTCCCCTCCCTCTTCCTGTAAAGACAG
98283 IS [CT] CGTGCGTGTCCCCAGATAGTCACAGCTTAACAGTGAGTACCCTCTGGAGATGTGTCCTC[CT]AGCTCCTCCCCTCCCTCTTCCTGTAAAGACAGAAGTCAGCCTTTTGGG GTCTGCTGCCCT
98361 1 S GGACCAAAGGTAAGTAGATAGGTCTGAATGCATGGCAA
98361 P A S CGCGCCGAGGTCTCACATGGTCCACTTY
98361 P G S ATGACGTGGCAGACCCTCACATGGTCCACTY
98361 T A S GAAGAAGTGGACCATGTGAGATGCCATGCATTCAGACCTATCTACTTACCTTTGGTCCAT
98361 T G S GAAGAAGTGGACCATGTGAGGTGCCATGCATTCAGACCTATCTACTTACCTTTGGTCCAT
98361 IS [AG] ACTTTCACAAATTAAATATAACCATTTTGAATGCAGGCAAGAAGAAGTGGACCATGTGAG[AG]TGCCATGCATTCAGACCTATCTACTTACCTTTGGTCCATGGCTTGA GGAAGAACGGTGCA
98380 1 A GTTCTCAATGGGCCTTGCCCTGCTGGT
98380 P G A ATGACGTGGCAGACGACTCACCTCACTGAGGY
98380 P A A CGCGCCGAGGAACTCACCTCACTGAGGY
98380 T G A CTTCCCTCAGTGAGGTGAGTCCCAGCAGGGCAAGGCCCATTCAGAACGT
98380 T A A CTTCCCTCAGTGAGGTGAGTTCCAGCAGGGCAAGGCCCATTCAGAACGT
98380 IS [GA] GAACTTGGGTCAAGGGAAGGGACCCCGAATGCAGGTTCTGAATGGGCCTTGCCCTGCTGG[GA]ACTCACCTCACTGAGGGAAGGAAAGCGTTCTGTCCCAGAGTCCAAGC CACTGTCCCCCTC
98385 1 A ACAAGAGATATGTGCACGTCCCAGAGGGAAGGC
98385 P A A CGCGCCGAGGAGCCAGGGCCAAGY
98385 P T A ATGACGTGGCAGACTGCCAGGGCCAAGY
98385 T A A GCCTCTTGGCCCTGGCTCCTTCCCTCTGGGACGTGCACATATCTCTTGTTA
98385 T T A GCCTCTTGGCCCTGGCACCTTCCCTCTGGGACGTGCACATATCTCTTGTTA
98385 IS [AT] TCCAGAAGAACAAGACAAACACATATAACAAGAGATATGTGCACGTCCCAGAGGGAAGG[AT]GCCAGGGCCAACAGGCGGAGGTGAACGAGGAGAGAGGTGGGAGGT CAGCTCCTGGGCCAA
98393 1 S CCTTGACACACAAACAGGAAGTGAGAAAATGGGCAAT
98393 P C S ATGACGTGGCAGACGTGACACAAATCGATAATTAACTY

FIGURE 129C

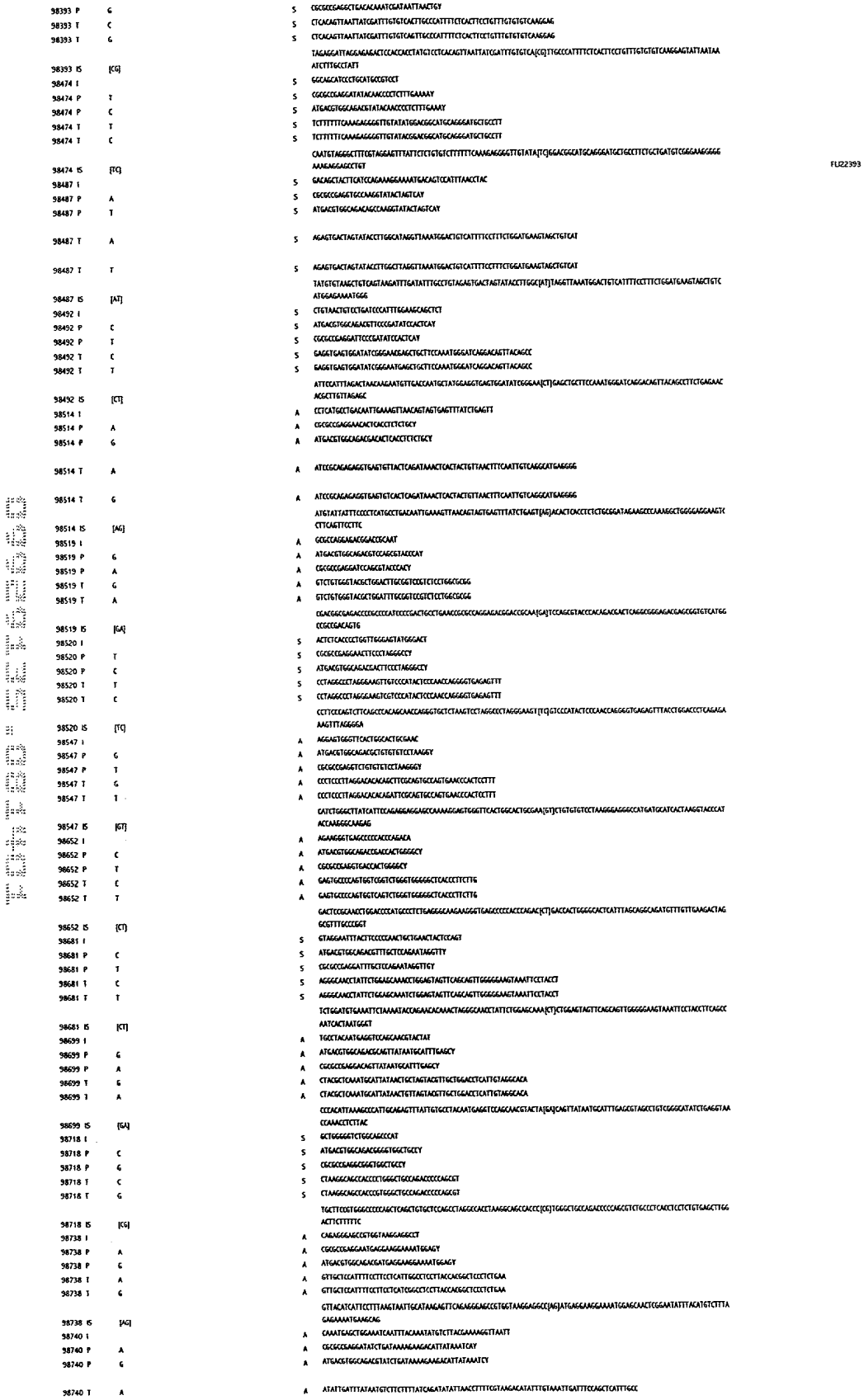


FIGURE 129C

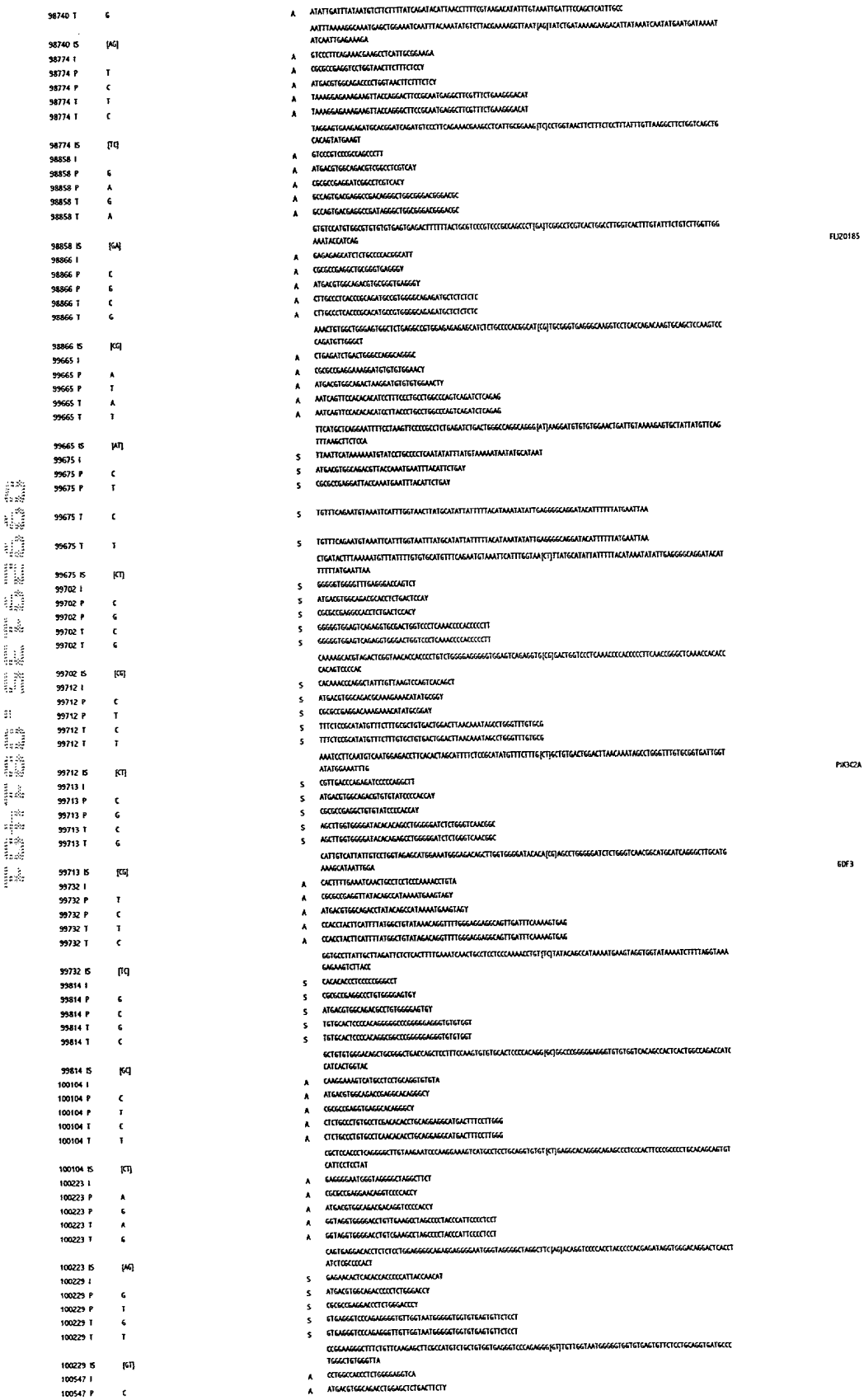


FIGURE 129C

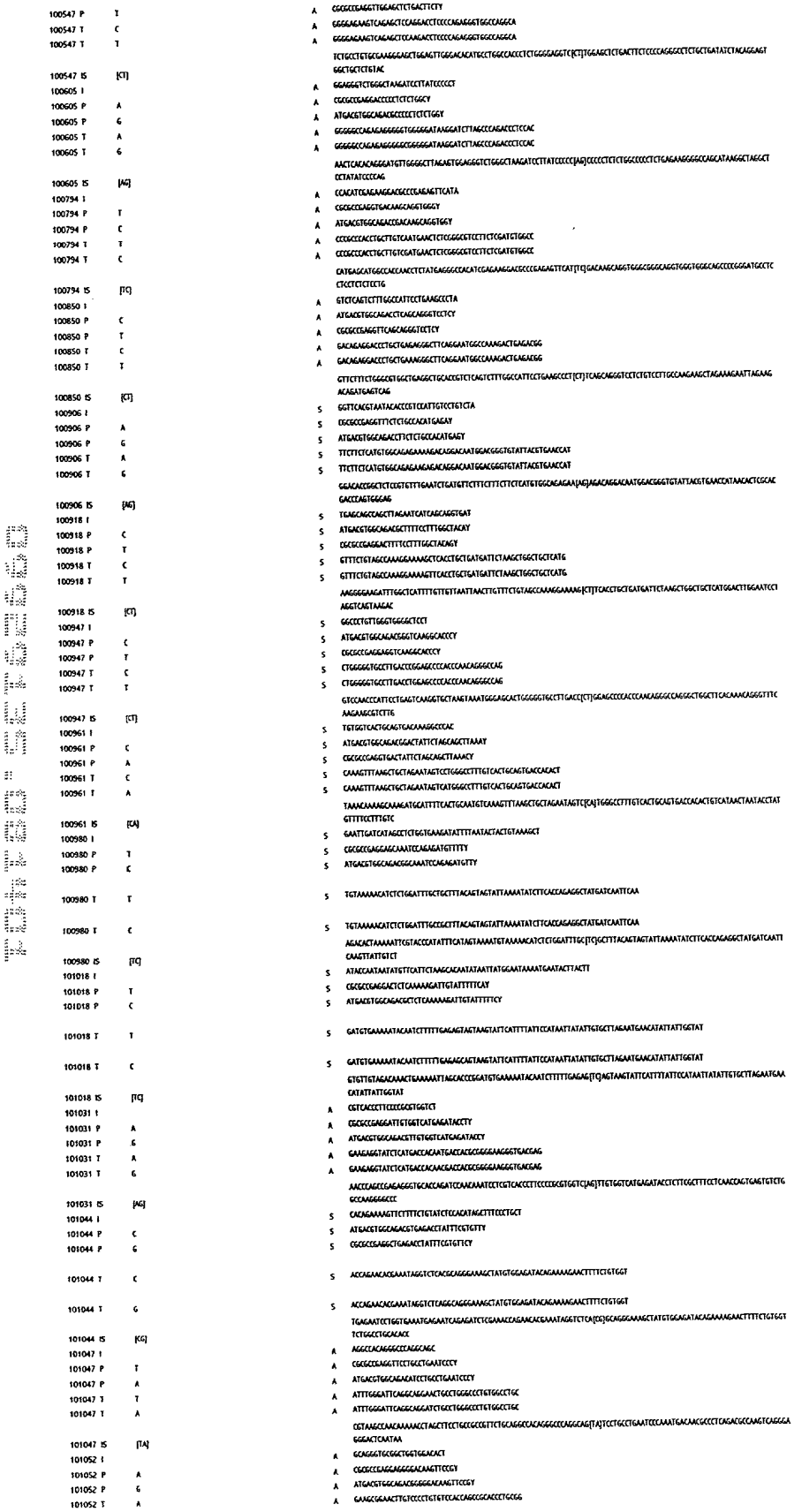


FIGURE 129C

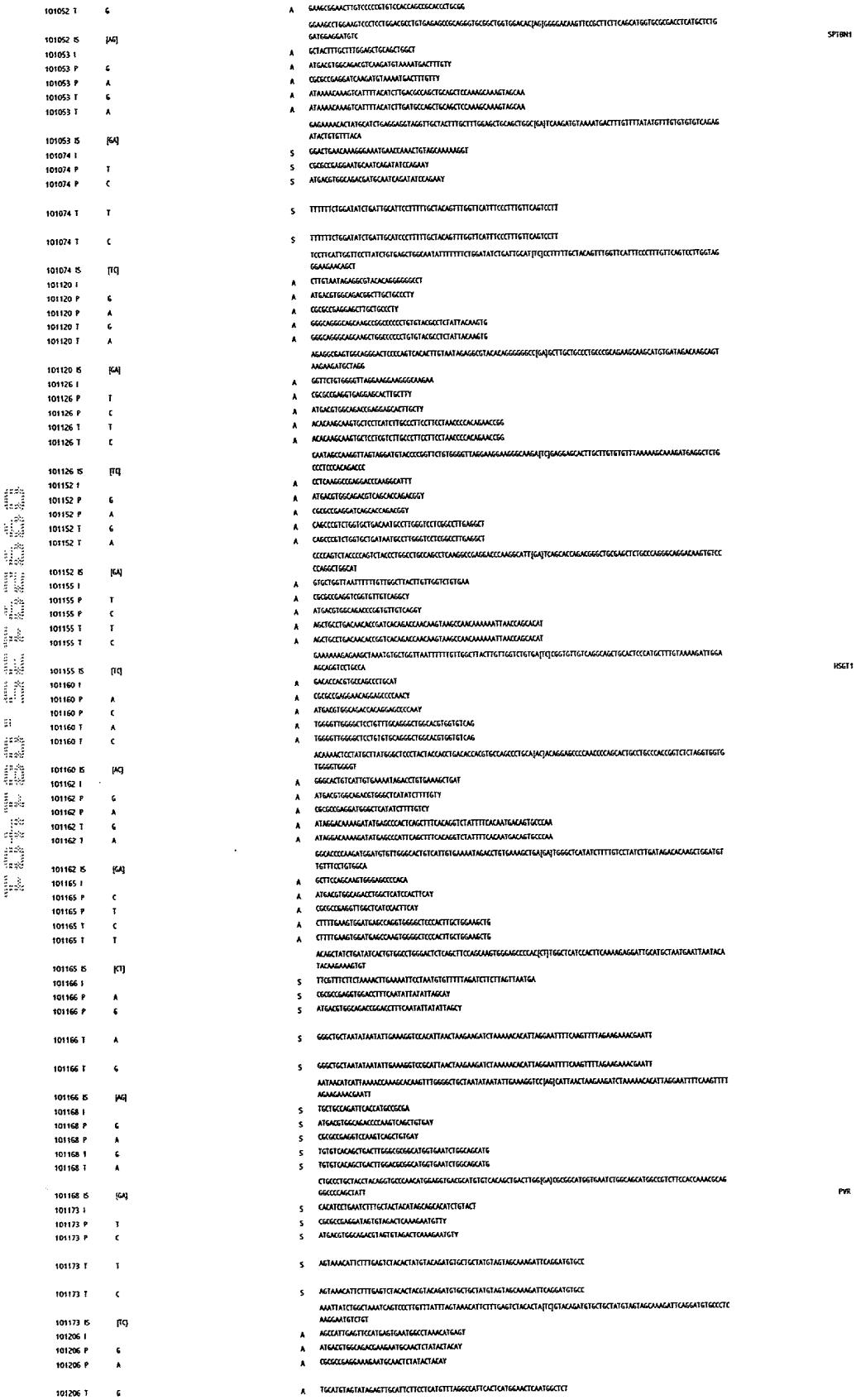
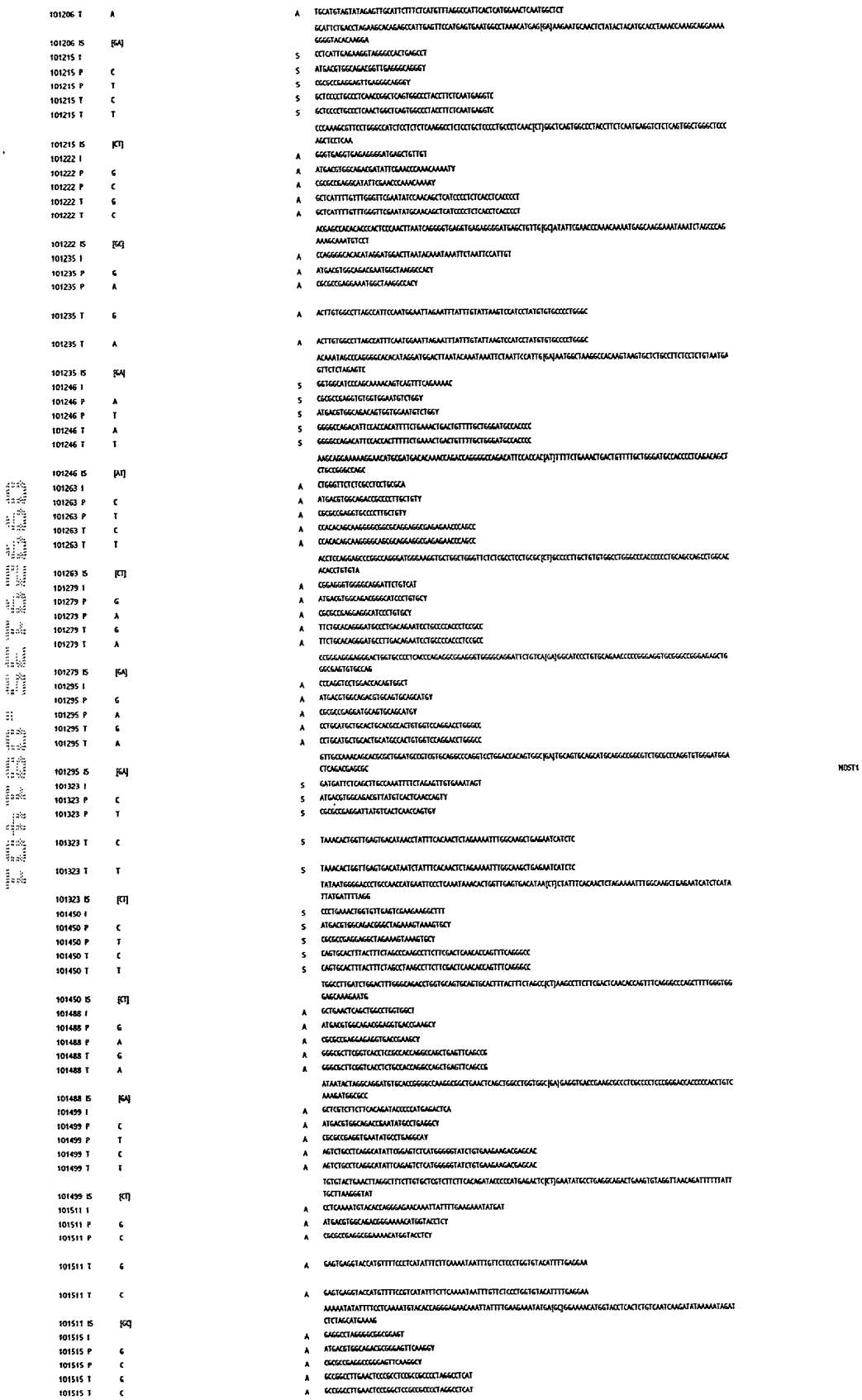


FIGURE 129C



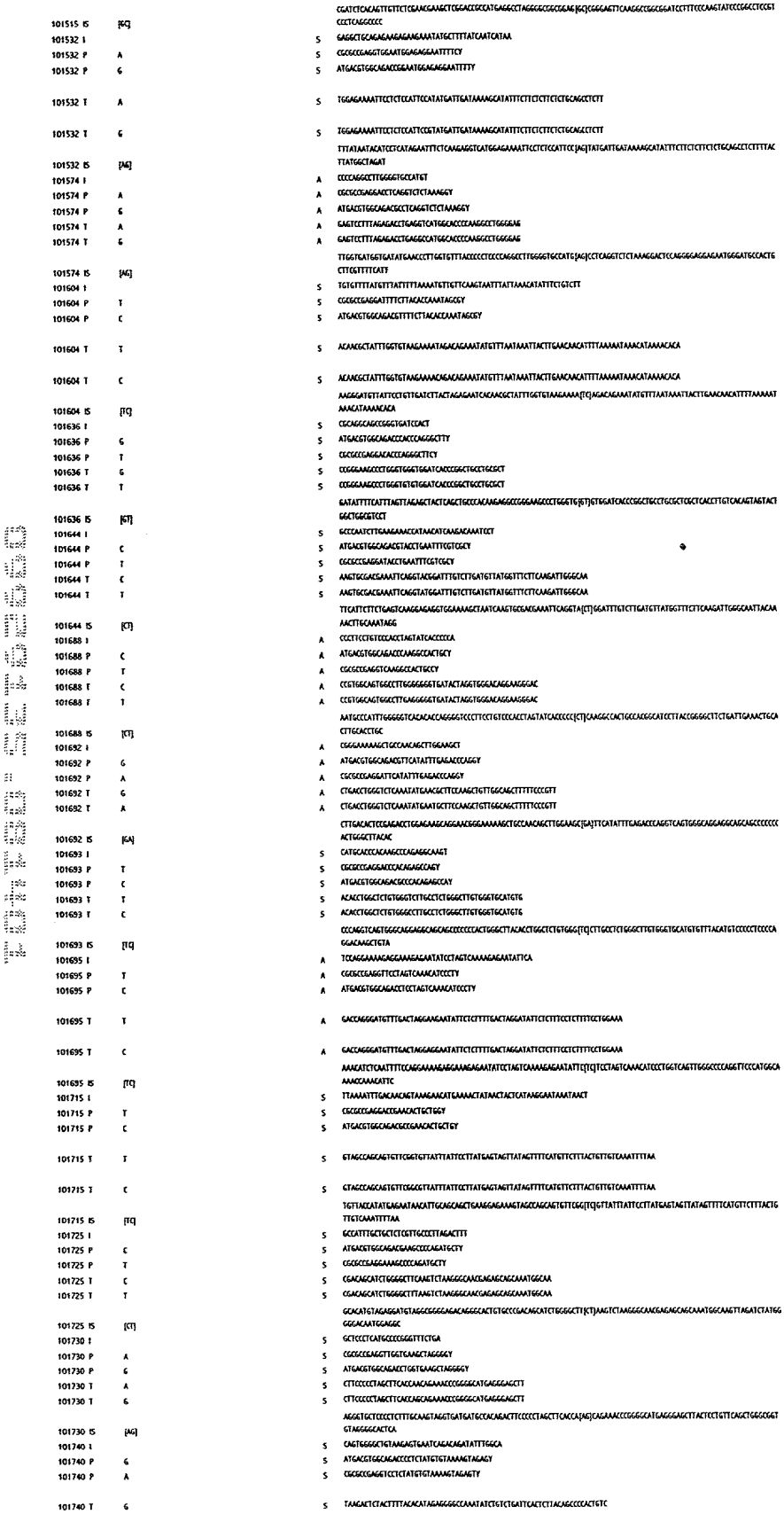


FIGURE 129C

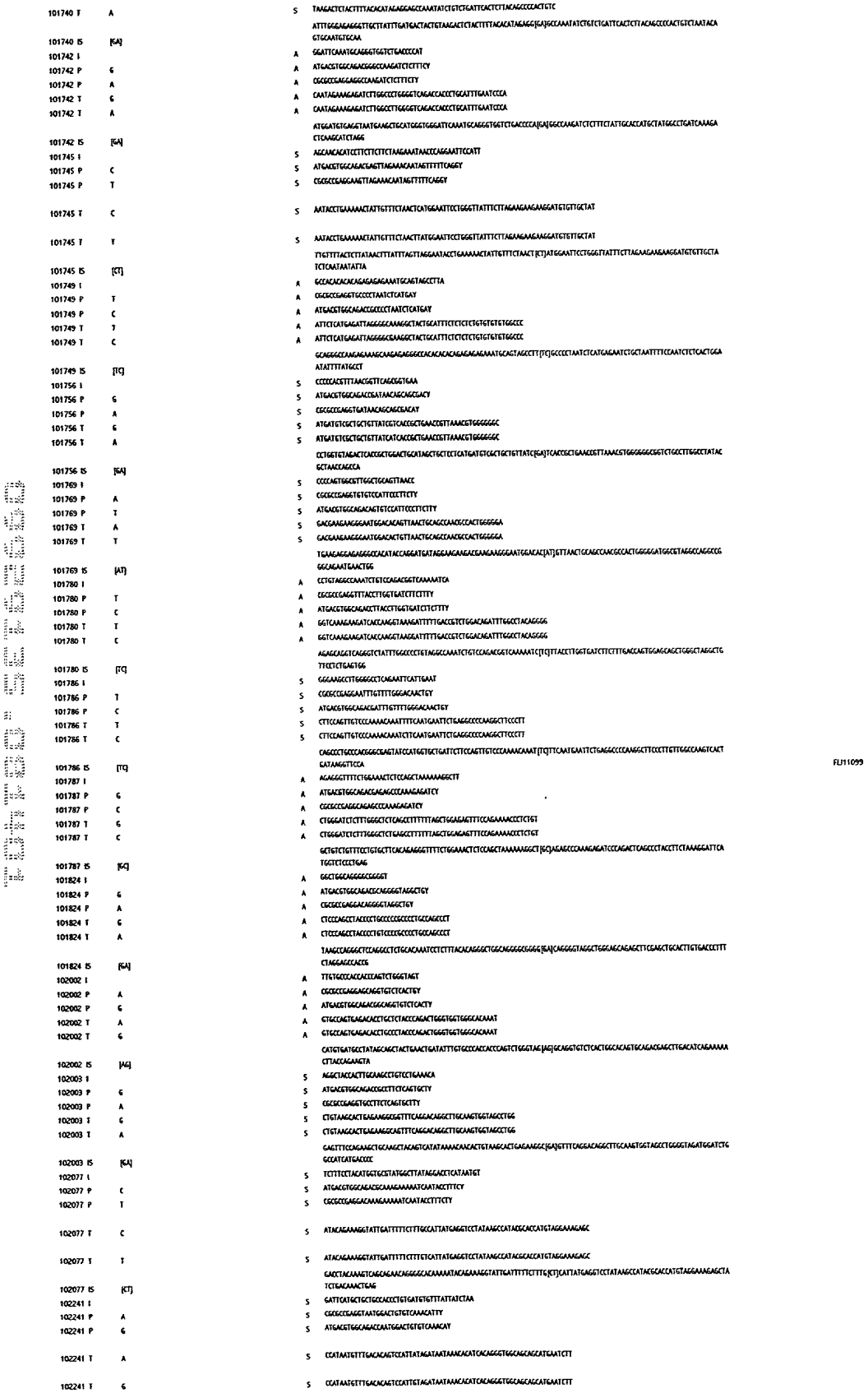


FIGURE 129C

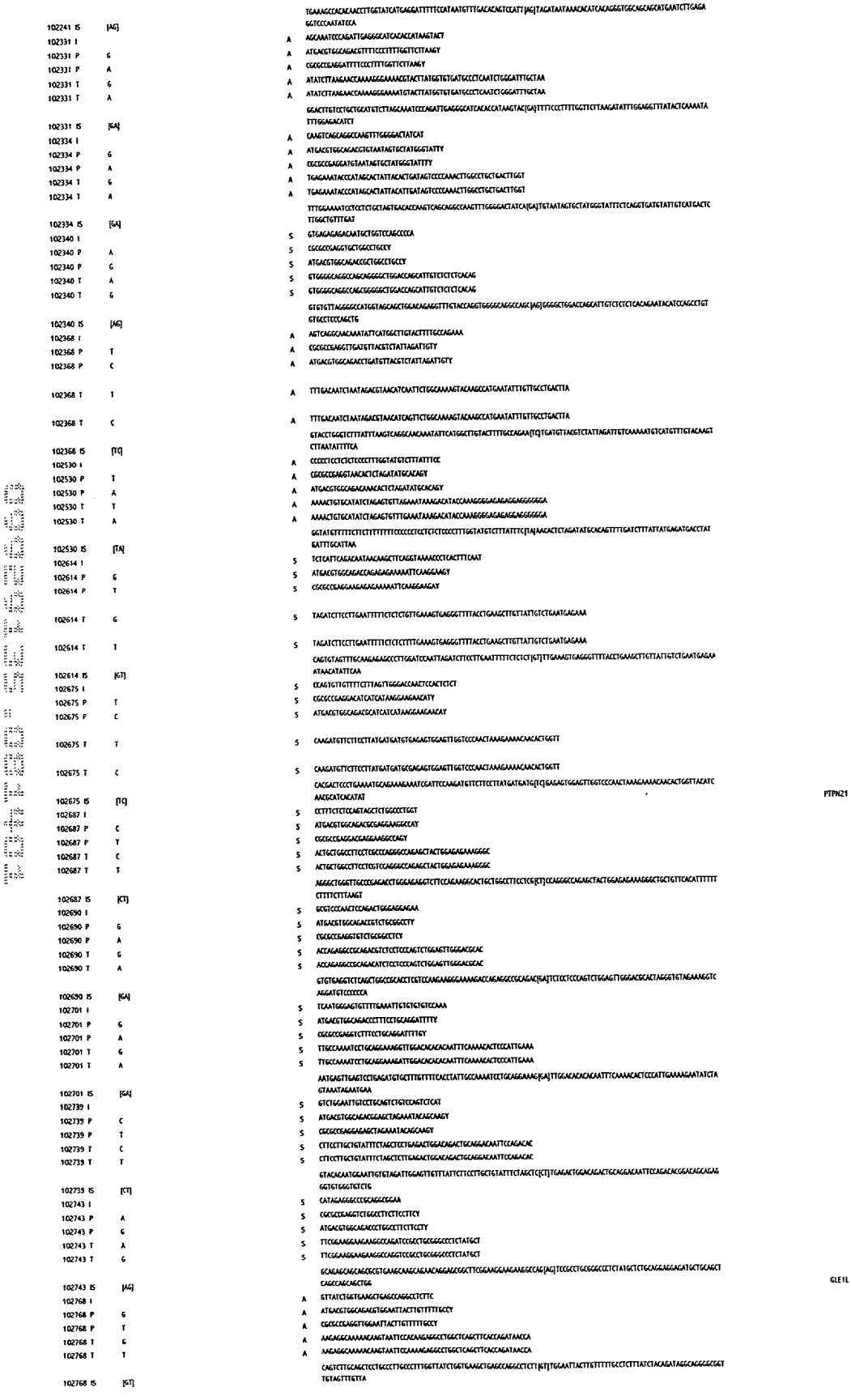


FIGURE 129C

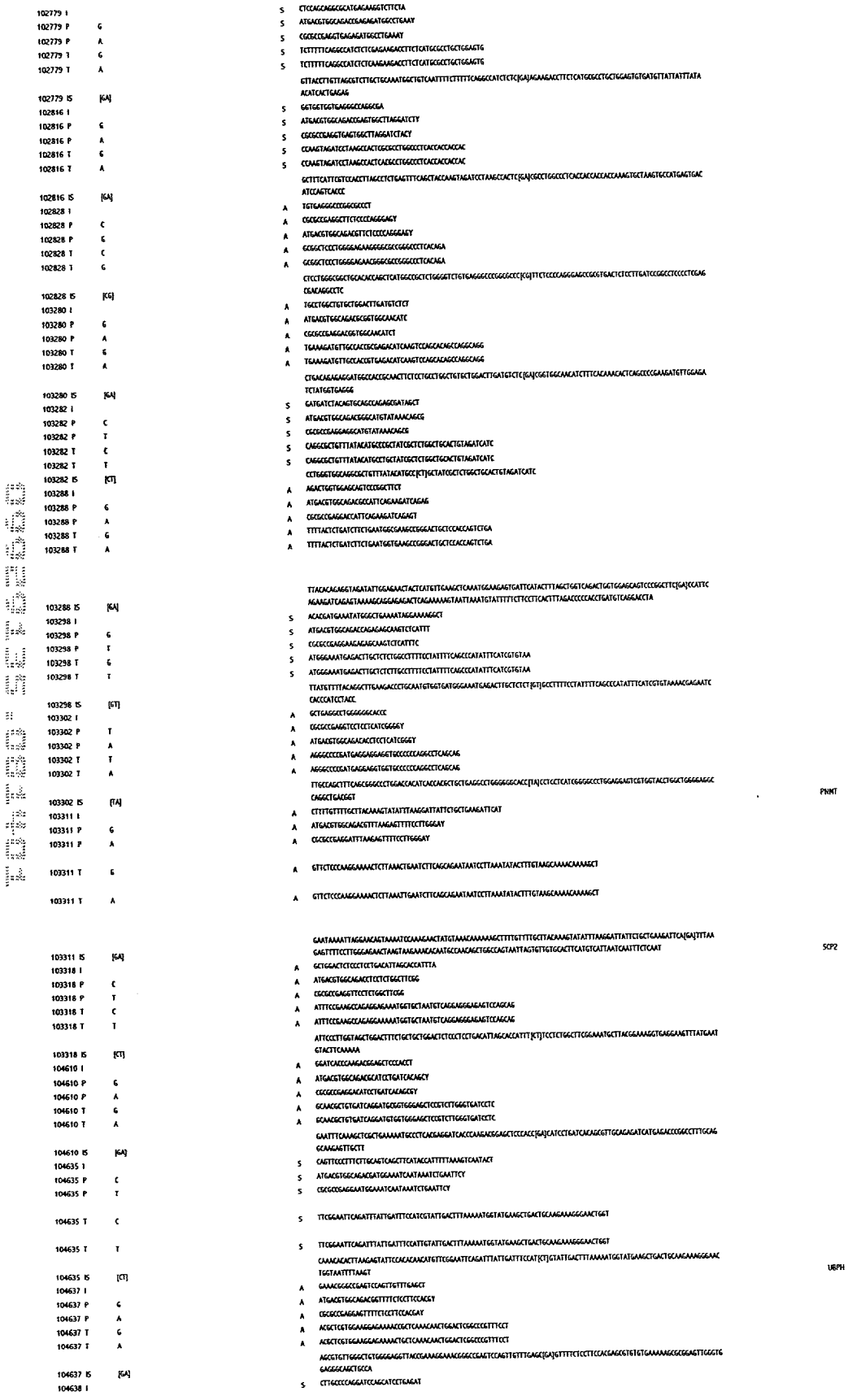
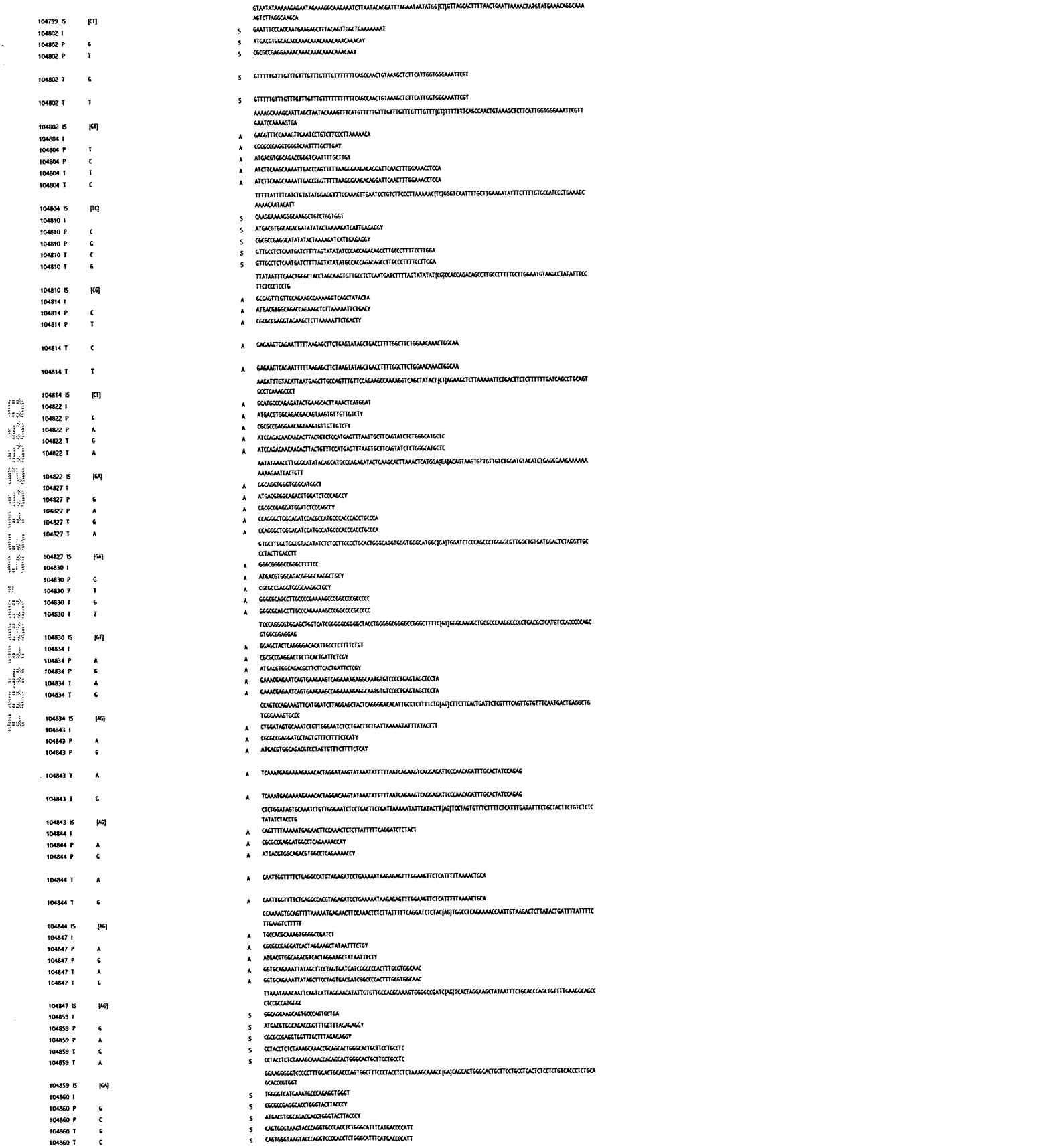
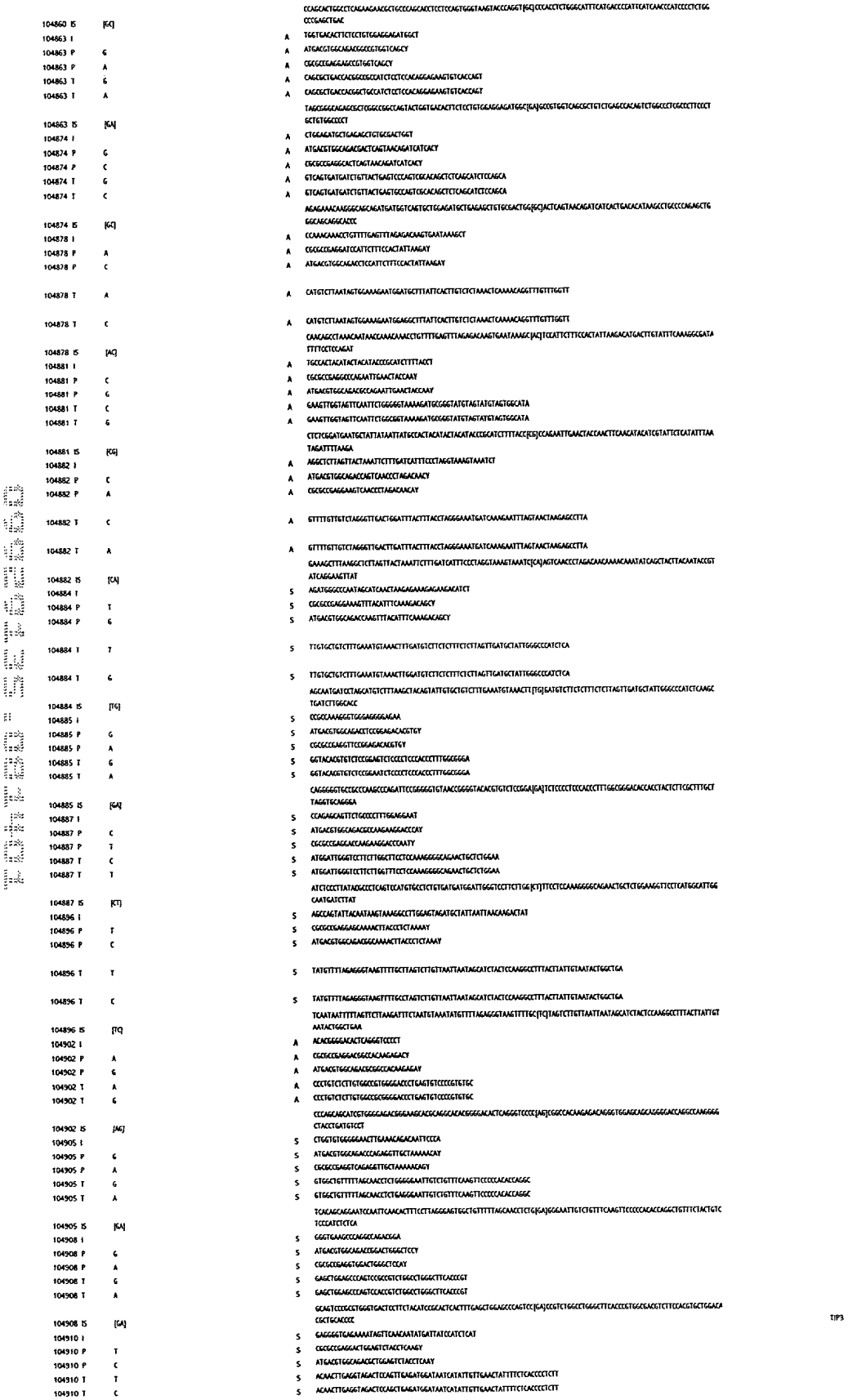


FIGURE 129C

104638 P	T	S	CGCGCCCAGGATCACTTCTGGATTGCTGT
104638 P	C	S	ATGACGTGGCAGACGTCACTTCTGGATTGCTGY
104638 T	T	S	CTCCCAGCAATCCAGAAGTGATTCTAGGATGCTGGATCCTGGGGCAAGTG
104638 T	C	S	CTCCCAGCAATCCAGAAGTGACTCTCAGGATGCTGGATCCTGGGGCAAGTG
104638 IS	[TC]		GAGGTTCAGCAGGTGACACATGCTCCAACTCTCCTTACCTCCCAGCAATCCAGAAGTGA[TC]TCTCAGGATGCTGGATCCTGGGGCAAGTGACTGGCAAATGTTGAAGC ATTGCTTGTCACT
104658 I		A	GCCTCTCAGGCGAGCTGCTGGTTT
104658 P	G	A	ATGACGTGGCAGACGTGACCAGTGGGTATGGY
104658 P	A	A	CGCGCCGAGGATGACCAGTGGGTATGGY
104658 T	G	A	CCACCCATACCCACTGGTCACAACCAGCAGCTCGCCTGACAGGCGC
104658 T	A	A	CCACCCATACCCACTGGTCATAACCAGCAGCTCGCCTGAGAGGCGC
104658 IS	[GA]		GGTCACCCACTATCTGGATGCCGGGCAGGTGTGTGGCGCCTCTCAGGCGAGCTGCTGGTT[GA]TGACCAGTGGGTATGGGTGGTACCCAGGCCAATGGGTCTTGGGCTGT GAGGTCAGCTGTG
104667 I		S	CAGTCTGCAGGCAAACCCATCAGATTTAGTAGAGCTT
104667 P	T	S	CGCGCCGAGGACTTGGGTTTTCTTTTAATGTTTY
104667 P	C	S	ATGACGTGGCAGACGCTTGGGTTTTCTTTTAATGTY
104667 T	T	S	GCTAAAACATTAAAAGAAAACCCAAGTAGCTCTACTAAATCTGATGGGTTTGCCTGCAGACTGGT
104667 T	C	S	GCTAAAACATTAAAAGAAAACCCAAGCAGCTCTACTAAATCTGATGGGTTTGCCTGCAGACTGGT
104667 IS	[TC]		CAGTTGCAACATTAGTAACAGAACATGCTGCATAGCTAAAACATTAAAAGAAAACCCAAG[TC]AGCTCTACTAAATCTGATGGGTTTGCCTGCAGACTGGTAGATTTAG TGCTTGTCACAGCA
104670 I		S	CAGAGCCTAGGCCTCCATATGACTCCCAGTGT
104670 P	T	S	CGCGCCGAGGAATAAACTAAGGGCGCT
104670 P	C	S	ATGACGTGGCAGACGATAAACTAAGGGCGCY
104670 T	T	S	AGTAGCGGCCCTTAGTTTATTCACTGGGAGTCATATGGAGGCCTAGGCTCTGTC
104670 T	C	S	AGTAGCGGCCCTTAGTTTATCCACTGGGAGTCATATGGAGGCCTAGGCTCTGTC
104670 IS	[TC]		TGTCCATCTGTTGTCTCTGCTGCACCAGTGGGCAACATGCAGTAGCGGCCCTTAGTTTAT[TC]CACTGGGAGTCATATGGAGGCCTAGGCTCTGTCTCTGACCTGGGTGG ATCTCCCCAGTGC
104676 I		S	CCCTATTGCTATGCGAAATTCCTGCTGAGGTAAT
104676 P	C	S	ATGACGTGGCAGACGTAACCAAAAACTGTAAGAATGATY
104676 P	T	S	CGCGCCGAGGATAACCAAAAACTGTAAGAATGATTY
104676 T	C	S	TGTTAATCATTCTTACAGTTTTTGGTTACTTACCTCAGCAGGAATTTCGCATAGGAATAGGGAA
104676 T	T	S	TGTTAATCATTCTTACAGTTTTTGGTTATTTACCTCAGCAGGAATTTCGCATAGGAATAGGGAA
104676 IS	[CT]		AAGGCATCAACACATTTTAGGTTTTCGTTTTTGTTAATCATTCTTACAGTTTTTGGTTA[CT]TTACCTCAGCAGGAATTTCGCATAGGAATAGGGAATAGAAAATAGG GAATAGGAATAGGA
104678 I		A	ACCTGCTTCTGCTCTAGAATGCTTCTTTGTGTCTGAACT
104678 P	G	A	ATGACGTGGCAGACGTTAGCAAATAGAGGTTGAACT
104678 P	A	A	CGCGCCGAGGATTAGCAAATAGAGGTTGAACTY
104678 T	G	A	TACTAGTTCAACCTCTATTTGCTAACGTTCAGACACAAAGAAGCATTCTAGAGCAGAAGCAGGTCT
104678 T	A	A	TACTAGTTCAACCTCTATTTGCTAATGTTCAGACACAAAGAAGCATTCTAGAGCAGAAGCAGGTCT
104678 IS	[GA]		GATTAACAGACATCAAGAGGAGAACCTGCTTCTGCTCTAGAATGCTTCTTTGTGTCTGAAC[GA]TTAGCAAATAGAGGTTGAACTAGTATAAGAGGCTTTGTTTCTTTGT GTTTTCTTGTTGTT
104684 I		A	GCTTCTGGGGCCAAATGGGTGAATCTTTGCTTTA
104684 P	T	A	CGCGCCGAGGTAACATTGTGTGATTTCTTTTCTTY
104684 P	C	A	ATGACGTGGCAGACCAACATTGTGTGATTTCTTTTCTY
104684 T	T	A	AAAAAGAAAAGAAATCACACAATGTTAAAAGCAAAGATTCACCCATTTGGCCCCAGAAGCCC
104684 T	C	A	AAAAAAGAAAAGAAATCACACAATGTTGAAAGCAAAGATTCACCCATTTGGCCCCAGAAGCCC
104684 IS	[TC]		AGCCAAAGGCTCTTCTCTGTCCGCACAGGCTTCTGGGGCCAAATGGGTGAATCTTTGCTTT[TC]AACATTGTGTGATTTCTTTTCTTTTTTTTTTTTTTTAGATCAAGTA TAAGTTACTTTT
104710 I		S	TGGCTGCCTCGAATGTCTTTGCATCAGGTGT
104710 P	C	S	ATGACGTGGCAGACGGGACTGGGTAGAAATTTGY
104710 P	T	S	CGCGCCGAGGAGGACTGGGTAGAAATTTGY
104710 T	C	S	ACATCAAATTTCTACCCAGTCCCCACCTGATGCAAAGACATTCGAGGCAGCCAGC
104710 T	T	S	ACATCAAATTTCTACCCAGTCCTCACCTGATGCAAAGACATTCGAGGCAGCCAGC
104710 IS	[CT]		CCGGCCCCATGCCAACCCCCTGCTCTGCTGCAACCTCGACATCAAATTTCTACCCAGTCC[CT]CACCTGATGCAAAGACATTCGAGGCAGCCAGCGTGCTTCTACATCCAGT TTATACACAGC
104715 I		S	AGTTTTCAGTATTGAGCAGAAAGGACCGTATCGTTA
104715 P	A	S	CGCGCCGAGGTTTCTTGTAGTTATGATAGGGTY
104715 P	G	S	ATGACGTGGCAGACCTTCTTGTAGTTATGATAGGGTY
104715 T	A	S	CATGACGCTATCATAACTACAAGAAAAAACGATACGGTCCTTTCTGCTCAATACTGAAAACTAA
104715 T	G	S	CATGACGCTATCATAACTACAAGAAGAACGATACGGTCCTTTCTGCTCAATACTGAAAACTAA
104715 IS	[AG]		CATCTTATCCATATCTGCAAATAACTGCTTAGATCCATGACGCTATCATAACTACAAGAAA[AG]AACGATACGGTCCTTTCTGCTCAATACTGAAAACTAATACAGTAAGA TTAACTAAAACTC
104730 I		S	CATACTGCTTTCAGGGAGATGGTATCAATCCCCCTT
104730 P	T	S	CGCGCCGAGGATGTTCAGAATGAGAATCCAGY
104730 P	C	S	ATGACGTGGCAGACGTGTTCAGAATGAGAATCCAY
104730 T	T	S	CCTGCTGGATTCTCATTCTGAACATAGGGGGATTGATACCATCTCCCTGAAAGCAGTATGCT
104730 T	C	S	CCTGCTGGATTCTCATTCTGAACACAGGGGGATTGATACCATCTCCCTGAAAGCAGTATGCT
104730 IS	[TC]		GAGTGAGTGATCACCCAGAAGTTCCCTGACCCATTCCCTGCTGGATTCTCATTCTGAACA[TC]AGGGGGATTGATACCATCTCCCTGAAAGCAGTATGCTCTGAGGAATA ACAAGGGTGGTGG
104748 I		S	GCTGTAAGAACAGTGTTGACATATATCAATCAATGGGAAAAAGC
104748 P	C	S	ATGACGTGGCAGACGCAATGCACTTTTCAGTTTY
104748 P	A	S	CGCGCCGAGGTACAATGCACTTTTCAGTTTCY
104748 T	C	S	CATTGAAACTGAAAAGTGCATTGTCCTTTTTCCCATTGATTGATATATGTCAACACTGTTCTTACAGCTC
104748 T	A	S	CATTGAAACTGAAAAGTGCATTGTACTTTTTCCCATTGATTGATATATGTCAACACTGTTCTTACAGCTC
104748 IS	[CA]		GAACTTTATGCTTGGATTTACTTTTTAATTGTCTAGCATTGAAACTGAAAAGTGCATTGT[CA]CTTTTTCCCATTGATTGATATATGTCAACACTGTTCTTACAGCTCAT TTACAGAAATTGA
104758 I		S	CCAAAGATTCACCAGCAGCTATTCTCATGTTTACATCATCACAT
104758 P	T	S	CGCGCCGAGGAGAGAGGAGGCTTGGAY
104758 P	G	S	ATGACGTGGCAGACGSAGAGGAGGCTTGGY
104758 T	T	S	AGCTTCCAAGCCTCCTCTCTTGTGATGATGTAAACATGAGAATAGCTGCTGGTGAATCTTTGGCA
104758 T	G	S	AGCTTCCAAGCCTCCTCTCGTGTGATGATGTAAACATGAGAATAGCTGCTGGTGAATCTTTGGCA
104758 IS	[TG]		TTCACATAGTAATGACTAACTATTTTTTAGGCATTTCCATAAGCTTCCAAGCCTCCTCTC[TG]TGTGATGATGTAAACATGAGAATAGCTGCTGGTGAATCTTTGGCACT TCTCTTTGAATTG
104781 I		A	TCCCACTTCTTCCACTGTGACCTAAGGGACCT
104781 P	A	A	CGCGCCGAGGAGAAACAGAGGGCAGAY
104781 P	G	A	ATGACGTGGCAGACGGAAACAGAGGGCAGAY
104781 T	A	A	AAAGTCTGCCCTCTGTTTCTGGTCCCTTAGGTCACAGTGGAAGAAGTGGGAGG
104781 T	G	A	AAAGTCTGCCCTCTGTTTCCGGTCCCTTAGGTCACAGTGGAAGAAGTGGGAGG
104781 IS	[AG]		CCCCCTTCCATGCCGCTTCAGCAACCACCTCCCACTTCTCCACTGTGACCTAAGGGACC[AG]GAAACAGAGGGCAGACTTTGTCTTTCAGCATCTCAAAGCTAAAAAACA AAGCATCCAAGC
104799 I		A	GTAATATAAAAAGAGAATAGAAAGGCAAGAAATCTAATACAGGATTTAGAATAATATGGA
104799 P	C	A	ATGACGTGGCAGACGTTAGCACTTTTAACTGAATTAY
104799 P	T	A	CGCGCCGAGGTGTTAGCACTTTTAACTGAATTAAAT
104799 T	C	A	TAGTTTTAATTCAGTTAAAAGTGCTAACGCCATATTATTCTAAATCCTGTATTAAGATTTCTTGCCTTTCTATTCTCTTTTTATATTAC
104799 T	T	A	TAGTTTTAATTCAGTTAAAAGTGCTAACACCATATTATTCTAAATCCTGTATTAAGATTTCTTGCCTTTCTATTCTCTTTTTATATTAC


GTAATATAAAAAGAGAATAGAAAGGCAAGAAATCTTAATACAGGATTTAGAATAATATGG[CT]GTTAGCACTTTTAACTGAATTAAAACTATGTATGAAACAGGCAAA
AGTCTTAGGCAAGCA
104739 IS [CT]
104802 I S GAATTTCCCACCAATGAAGAGCTTTACAGTTGGCTGAAAAAAAT
104802 P G S ATGACGTGGCAGACCAAACAAACAAACAAACAAACAY
104802 P T S CGCGCCGAGGAAAACAAACAAACAAACAAACAAY
104802 T G S GTTTTTGTTTGTTTGTTTGTTTGTTTTTTTTCAGCCAACTGTAAAGCTCTTCATTGGTGGGAAATTCGT
104802 T T S GTTTTTGTTTGTTTGTTTGTTTTTTTTTTCAGCCAACTGTAAAGCTCTTCATTGGTGGGAAATTCGT
AAAAGCAAAGCAATTAGCTAATACAAAGTTTCATGTTTTTGTTTGTTTGTTTGTTTGTTT[GT]TTTTTTTCAGCCAACTGTAAAGCTCTTCATTGGTGGGAAATTCGTT
GAATCCAAAAGTGA
104802 IS [GT]
104804 I A GAGGTTTCCAAAGTTGAATCCTGTCTTCCCCTAAAAACA
104804 P T A CGCGCCCAGGTGGGTCAATTTTGCTTGAY
104804 P C A ATGACGTGGCAGACCGGGTCAATTTTGCTTGY
104804 T T A ATCTTCAAGCAAAATTGACCCAGTTTTTAAGGGAAGACAGGATTCAACTTTGGAAACCTCCA
104804 T C A ATCTTCAAGCAAAATTGACCCGGTTTTTAAGGGAAGACAGGATTCAACTTTGGAAACCTCCA
TTTTTATTTTCATCTGTATATGGAGGTTTCCAAAGTTGAATCCTGTCTTCCCTTAAAAAC[TC]GGGTCAATTTTGCTTGAAGATATTTCTTTTGTGCCATCCCTGAAAGC
AAAACAATACATT
104804 IS [TC]
104810 I S CAAGGAAAAGGGCAAGCTGTCTGGTGGT
104810 P C S ATGACGTGGCAGACGATATATACTAAAAGATCATTGAGAGGY
104810 P G S CGCGCCGAGGCATATATACTAAAAGATCATTGAGAGGY
104810 T C S GTTGCCTCTCAATGATCTTTTAGTATATATGCCACCAGACAGCCTTGCCCTTTTCCTTGGA
104810 T G S GTTGCCTCTCAATGATCTTTTAGTATATATGCCACCAGACAGCCTTGCCCTTTTCCTTGGA
TTATAATTTCAACTGGGCTACCTAGCAAGTGTTGCCTCTCAATGATCTTTTAGTATATAT[CG]CCACCAGACAGCCTTGCCCTTTTCCTTGGAATGTAAGCCTATATTTCC
TTCTCCCTCCTG
104810 IS [CG]
104814 I A GCCAGTTTGTTCCAGAAGCCAAAAGGTCAGCTATACTA
104814 P C A ATGACGTGGCAGACCAGAAGCTCTTAAAAATTCTGACY
104814 P T A CGCGCCGAGGTAGAAGCTCTTAAAAATTCTGACTY
104814 T C A GAGAAGTCAGAATTTTTAAGAGCTTCTGAGTATAGCTGACCTTTTGGCTTCTGGAACAAACTGGCAA
104814 T T A GAGAAGTCAGAATTTTTAAGAGCTTCTAAGTATAGCTGACCTTTTGGCTTCTGGAACAAACTGGCAA
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GCCTCAAAGCCCT
104814 IS [CT]
104822 I A GCATGCCCAGAGATACTGAAGCACTTAAACTCATGGAT
104822 P G A ATGACGTGGCAGACGACAGTAAGTGTTGTTGTCTY
104822 P A A CGCGCCGAGGAACAGTAAGTGTTGTTGTCTY
104822 T G A ATCCAGACAACAACAACACTTACTGTCTCCATGAGTTTAAGTGCTTCAGTATCTCTGGGCATGCTC
104822 T A A ATCCAGACAACAACACACTTACTGTTTCCATGAGTTTAAGTGCTTCAGTATCTCTGGGCATGCTC
AATATAAACCTTGGGCATATAGAGCATGCCCAGAGATACTGAAGCACTTAAACTCATGGA[GA]ACAGTAAGTGTTGTTGTCTGGATGTACATCTGAGGCAAGAAAAAA
AAAAGAATCACTGTT
104822 IS [GA]
104827 I A GGCAGGTGGGTGGGCATGGCT
104827 P G A ATGACGTGGCAGACGTGGATCTCCCAGCCY
104827 P A A CGCGCCGAGGATGGATCTCCCAGCCY
104827 T G A CCAGGGCTGGGAGATCCACGCCATGCCCACCCACCTGCCCA
104827 T A A CCAGGGCTGGGAGATCCATGCCATGCCCACCCACCTGCCCA
GTGCTTGGCTGGCGTACATATCTCTCCTCCCCTGCACTGGGCAGGTGGGTGGGCATGGC[GA]TGGATCTCCCAGCCCTGGGGCGTTGGCTGTGATGGACTCTAGGTTGC
CCTACTTGACCTT
104827 IS [GA]
104830 I A GGGCGGGGCCCGGGCTTTTCC
104830 P G A ATGACGTGGCAGACGGGGCAAGGCTGCY
104830 P T A CGCGCCGAGGTGGGCAAGGCTGCY
104830 T G A GGGGCAGCCTTGCCCCGAAAAGCCCCGCCCCGCCCCC
104830 T T A GGGGCAGCCTTGCCCAGAAAAGCCCCGCCCCGCCCCC
TCCCAGGGGTGGAGCTGCTCATCGGGGGCGGGGCTACCTGGGGGCGGGGCCGGGCTTTTC[GT]GGGCAAGGCTGCGCCCAAGGCCCCTGACGCTCATGTCCACCCCCAGC
GTGGCGGAGGAG
104830 IS [GT]
104834 I A GGAGCTACTCAGGGGACACATTGCCTCTTTTCTGT
104834 P A A CGCGCCGAGGACTTCTTCACTGATTCTCGY
104834 P G A ATGACGTGGCAGACGCTTCTTCACTGATTCTCGY
104834 T A A GAAACGAGAATCAGTGAAGAAGTCAGAAAAGAGAGGCAATGTGTCCCCTGAGTAGCTCCTA
104834 T G A GAAACGAGAATCAGTGAAGAAGCCAGAAAAGAGAGGCAATGTGTCCCCTGAGTAGCTCCTA
CCAGTCCAGAAAGTTCATGGATCTTAGGAGCTACTCAGGGGACACATTGCCTCTTTTCTG[AG]CTTCTTCACTGATTCTCGTTTCAGTTGTGTTTCAATGACTGAGGCTG
TGGGAAAGTGCCC
104834 IS [AG]
104843 I A CTGGATAGTGCAAATCTGTTGGGAATCTCCTGACTTCTGATTAAAAATATTTATACTTT
104843 P A A CGCGCCGAGGATCCTAGTGTTTCTTTTCTCATY
104843 P G A ATGACGTGGCAGACGTCCTAGTGTTTCTTTTCTCATY
104843 T A A TCAAATGAGAAAAGAAACACTAGGATAAGTATAAATATTTTTAATCAGAAGTCAGGAGATTCCCAACAGATTTGCACTATCCAGAG
104843 T G A TCAAATGAGAAAAGAAACACTAGGACAAGTATAAATATTTTTAATCAGAAGTCAGGAGATTCCCAACAGATTTGCACTATCCAGAG
CTCTGGATAGTGCAAATCTGTTGGGAATCTCCTGACTTCTGATTAAAAATATTTATACTT[AG]TCCTAGTGTTTCTTTTCTCATTTGATATTTCTGCTACTTCTGTCTCTC
TATATCTACCTG
104843 IS [AG]
104844 I A CAGTTTTAAAAATGAGAACTTCCAAACTCTCTTATTTTTCAGGATCTCTACT
104844 P A A CGCGCCGAGGATGGCCTCAGAAAACCAY
104844 P G A ATGACGTGGCAGACGTGGCCTCAGAAAACCAY
104844 T A A CAATTGGTTTTCTGAGGCCATGTAGAGATCCTGAAAAATAAGAGAGTTTGGAAGTTCTCATTTTTAAAACTGCA
104844 T G A CAATTGGTTTTCTGAGGCCACGTAGAGATCCTGAAAAATAAGAGAGTTTGGAAGTTCTCATTTTTAAAACTGCA
CCAAAAGTGCAGTTTTAAAAATGAGAACTTCCAAACTCTCTTATTTTTCAGGATCTCTAC[AG]TGGCCTCAGAAAACCAATTGTAAGACTCTTATACTGATTTATTTTC
TTGAAGTCTTTTT
104844 IS [AG]
104847 I A TGCCACGCAAAGTGGGGCCGATCT
104847 P A A CGCGCCGAGGATCACTAGGAAGCTATAATTTCTGY
104847 P G A ATGACGTGGCAGACGTCACTAGGAAGCTATAATTTCTY
104847 T A A GGTGCAGAAATTATAGCTTCCTAGTGATGATCGGCCCCACTTTGGGTGGCAAC
104847 T G A GGTGCAGAAATTATAGCTTCCTAGTGACGATCGGCCCCACTTTGGGTGGCAAC
TTAAATAAACAATCAGTCATTAGGAACATATTGTGTTGCCACGCAAAGTGGGGCCCGATC[AG]TCACTAGGAAGCTATAATTTCTGCACCCAGCTGTTTTGAAGGCAGCC
CTCGGCCATGGGC
104847 IS [AG]
104859 I S GGCAGGAAGCAGTGCCCAGTGCTGA
104859 P G S ATGACGTGGCAGACCGGTTTGCTTTAGAGAGGY
104859 P A S CGCGCCGAGGTGGTTTGCTTTAGAGAGGY
104859 T G S CCTACCTCTCTAAAGCAAACCGCAGCACTGGGCACTGCTTCCTGCCTC
104859 T A S CCTACCTCTCTAAAGCAAACACAGCACTGGGCACTGCTTCCTGCCTC
GGAAGGGGGTCCCCCTTTGCACTGCACCCAGTGGCTTTCCCTACCTCTCTAAAGCAAACC[GA]CAGCACTGGGCACTGCTTCCTGCCTCACTCTCCTCTGTCACCCCTCTGCA
GCACCCGTGGT
104859 IS [GA]
104860 I S TGGGGTCATGAAATGCCCAGAGGTGGGT
104860 P G S CGCGCCGAGGCAACCTGGGTACTTACCCY
104860 P C S ATGACGTGGCAGACGACCTGGGTACTTACCCY
104860 T G S CAGTGGGTAAGTACCCAGGTGCCCCACCTCTGGGCATTTCATGACCCCATT
104860 T C S CAGTGGGTAAGTACCCAGGTCCCCACCTCTGGGCATTTCATGACCCCATT


CCAGCACTGGCCTCAGAAGAACGCTGCCCAGCACCTCCTCCAGTGGGTAAGTACCCAGGT[GC]CCCACCTCTGGGCATTTCATGACCCCATTCATCAACCATCCCCTCTGG
CCCGAGCTGAC
104860 IS [GC]
104863 I A TGGTGACACTTCTCCTGTGGAGGAGATGGCT
104863 P G A ATGACGTGGCAGACGGCCCGTGGTCAGCY
104863 P A A CGCGCCCAGGAAGCCGTGGTCAGCY
104863 P C A CAGCGCTGACCACGGCGGCCATCTCCTCCACAGGAGAAGTGTCACCAGT
104863 T G A CAGCGCTGACCACGGCTGCCATCTCCTCCACAGGAGAAGTGTCACCAGT
104863 T A A CAGCGCTGACCACGGCTGCCATCTCCTCCACAGGAGAAGTGTCACCAGT
TAGCGGGCAGAGCGCTCGGCCGGCCAGTACTGGTGACACTTCTCCTGTGGAGGAGATGGC[GA]GCCGTGGTCAGCGCTGTCTGAGCCACAGTCTGGCCCTCGCCCTTCCCT
GCTGTGGCCCCT
104863 IS [GA]
104874 I A CTGGAGATGCTGAGAGCTGTGGGACTGGT
104874 P G A ATGACGTGGCAGACGACTCAGTAACAGATCATCACY
104874 P C A CGCGCCGAGGCACTCAGTAACAGATCATCACY
104874 T G A GTCAGTGATGATCTGTTACTGAGTCCCAGTCGCACAGCTCTCAGCATCTCCAGCA
104874 T C A GTCAGTGATGATCTGTTACTGAGTGCCAGTCGCACAGCTCTCAGCATCTCCAGCA
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GGCAGCAGGCACCC
104874 IS [GC]
104878 I A CCAAACAAACCTGTTTTGAGTTTAGAGACAAGTGAATAAAGCT
104878 P A A CGCGCCGAGGATCCATTCTTTCCACTATTAAGAY
104878 P C A ATGACGTGGCAGACCTCCATTCTTTCCACTATTAAGAY
104878 T A A CATGTCTTAATAGTGGAAAGAATGGATGCTTTATTCACTTGTCTCTAAACTCAAAACAGGTTTGTTTGGTT
104878 T C A CATGTCTTAATAGTGGAAAGAATGGAGGCTTTATTCACTTGTCTCTAAACTCAAAACAGGTTTGTTTGGTT
CAACAGCCTAAACAATAACCAAACAAACCTGTTTTGAGTTTAGAGACAAGTGAATAAAGCJACJTCCATTCTTTCCACTATTAAGACATGACTTGTATTTCAAAGGCGATA
TTTTCCTCCAGAT
104878 IS [AC]
104881 I A TGCCACTACATACTACATACCCGCATCTTTTACCT
104881 P C A CGCGCCCGAGGCCCAGAATTGAACTACCAAY
104881 P G A ATGACGTGGCAGACGCCAGAATTGAACTACCAAY
104881 T C A GAAGTTGGTAGTTCAATTCTGGCGGTAAAAGATGCGGGTATGTAGTATGTAGTGGCATA
104881 T G A GAAGTTGGTAGTTCAATTCTGGCGGTAAAAGATGCGGGTATGTAGTATGTAGTGGCATA
CTCTCGGATGAATGCTATTATAATTATGCCACTACATACTACATACCCGCATCTTTTACC[CG]CCAGAATTGAACTACCAACTTCAACATACATCGTATTCTCATATTTAA
TAGATTTTAAGA
104881 IS [CG]
104882 I A AGGCTCTTAGTTACTAAATTCTTTGATCATTTCCCTAGGTAAAGTAAATCT
104882 P C A ATGACGTGGCAGACCAGTCAACCCTAGACAACY
104882 P A A CGCGCCGAGGAAGTCAACCCTAGACAACAY
104882 T C A GTTTTGTTGTCTAGGGTTGACTGGATTTACTTTACCTAGGGAAATGATCAAAGAATTTAGTAACTAAGAGCCTTA
104882 T A A GTTTTGTTGTCTAGGGTTGACTTGATTTACTTTACCTAGGGAAATGATCAAAGAATTTAGTAACTAAGAGCCTTA
GAAAGCTTTAAGGCTCTTAGTTACTAAATTCTTTGATCATTTCCCTAGGTAAAGTAAATC[CA]AGTCAACCCTAGACAACAAACAAATATCAGCTACTTACAATACCGT
ATCAGGAAGTTAT
104882 IS [CA]
104884 I S AGATGGGCCCAATAGCATCAACTAAGAGAAAGAGAAGAGACATCT
104884 P T S CGCGCCCGAGGAAAGTTTACATTTCAAAGACAGCY
104884 P G S ATGACGTGGCAGACCAAGTTTACATTTCAAAGACAGCY
104884 T T S TTGTGCTGTCTTTGAAATGTAAACTTTGATGTCTTCTCTTTCTCTTAGTTGATGCTATTGGGCCCATCTCA
104884 T G S TTGTGCTGTCTTTGAAATGTAAACTTGGATGTCTTCTCTTTCTCTTAGTTGATGCTATTGGGCCCATCTCA
AGCAATGATCCTAGCATGTCTTTAAGCTACAGTATTGTGCTGTCTTTGAAATGTAAACTT[TG]GATGTCTTCTCTTTCTCTTAGTTGATGCTATTGGGCCCATCTCAAGC
TGATCTTGGCACC
104884 IS [TG]
104885 I S CCGCCAAAGGGTGGGAGGGGAGAA
104885 P G S ATGACGTGGCAGACCTCCGGAGACAGGTGY
104885 P A S CGCGCCCAGGTTCCGGAGACAGGTGY
104885 T G S GGTACAGTGTCTCCGGAGTCTCCCCTCCCACCCTTTGGCGGGA
104885 T A S GGTACAGTGTCTCCGGAATCTCCCCTCCCACCCTTTGGCGGGA
CAGGGGGTGCCGCCCAAGCCAGATTCCGGGGGTGTAACCGGGGTACACGTGTCTCCGGA[GA]TCTCCCCTCCCACCCTTGGCGGGACACCACCTACTCTTCGCTTTGCT
TAGGTGCAGGGA
104885 IS [GA]
104887 I S CCAGAGCAGTTCTGCCCCTTTGGAGGAAT
104887 P C S ATGACGTGGCAGACGCCAAGAAGGACCCAY
104887 P T S CGCGCCGAGGACCAAGAAGGACCCAATY
104887 T C S ATGGATTGGGTCCTTCTTGGCTTCCTCCAAAGGGGCAGAACTGCTCTGGAA
104887 T T S ATGGATTGGGTCCTTCTTGGTTTCCTCCAAAGGGGCAGAACTGCTCTGGAA
ATCTCCCTTATAGCCCTCAGTCCATGTGCCTCTGTGATGATGGATTGGGTCCTTCTTGG[CT]TTCCTCCAAAGGGGCAGAACTGCTCTGGAAGGTTCCTCATGGCATTGG
CAATGATCTTAT
104887 IS [CT]
104896 I S AGCCAGTATTACAATAAGTAAAGCCTTGGAGTAGATGCTATTAATTAACAAGACTAT
104896 P T S CGCGCCGAGGAGCAAAACTTACCCTCTAAAAY
104896 P C S ATGACGTGGCAGACGCCAAAACTTACCCTCTAAAY
104896 T T S TATGTTTAGAGGGTAAGTTTTGCTTAGTCTTGTTAATTAATAGCATCTACTCCAAGGCCTTTACTTATTGTAATACTGGCTGA
104896 T C S TATGTTTAGAGGGTAAGTTTTGCCTAGTCTTGTTAATTAATAGCATCTACTCCAAGGCCTTTACTTATTGTAATACTGGCTGA
TCAATAATTTTTAGTTCTTAAGATTTCTAATGTAAATATGTTTTAGAGGGTAAGTTTTGC[TC]TAGTCTTGTTAATTAATAGCATCTACTCCAAGGCCTTTACTTATTGT
AATACTGGCTGAA
104896 IS [TC]
104902 I A ACACGGGGACACTCAGGGTCCCCT
104902 P A A CGCGCCGAGGACGGCCACAAGAGACY
104902 P G A ATGACGTGGCAGACGGCCACAAGAGAY
104902 T A A CCCTGTCTCTTGTGGCCGTGGGGAACCCTGAGTGTCCCCGTGTGC
104902 T G A CCCTGTCTCTTGTGGCCGCGGGGAACCCTGAGTGTCCCCGTGTGC
CCCAGCAGCATCGTGGGCAGACGGGAAGCACGCAGGCACACGGGCACACTCAGGGTCCCC[AG]CGGCCACAAGAGACAGGGTGGAGCAGCACGGGGACCAGGCCAAGGGG
CTACCTGATGTCCT
104902 IS [AG]
104905 I S CTGGTGTGGGGGAACTTGAAACAGACAATTCCCA
104905 P G S ATGACGTGGCAGACCCAGAGGTTGCTAAAAACAY
104905 P A S CGCGCCGAGGTCAGAGGTTGCTAAAAACAGY
104905 T G S GTGGCTGTTTTTAGCAACCTCTGGGGGAATTGTCTGTTTCAAGTTCCCCCACACCAGGC
104905 T A S GTGGCTGTTTTTAGCAACCTCTGAGGGAATTGTCTGTTTCAAGTTCCCCCACACCAGGC
TCACAGCAGGAATCCAATTCAACACTTTCCTTAGGGAGTGGCTGTTTTTAGCAACCTCTG[GA]GGGAATTGTCTGTTTCAAGTTCCCCCACACCAGGCTGTTTCTACTGTC
TCCCATCTCTCA
104905 IS [GA]
104908 I S GGGTGAAGCCCAGGGCAGACGGA
104908 P G S ATGACGTGGCAGACCGGACTGGGCTCCY
104908 P A S CGCGCCGAGGTGGACTGGGCTCCAY
104908 T G S GAGCTGGAGCCCAGTCCGCCGTCTGGGCTGGGCTTCACCCGT
104908 T A S GAGCTGGAGCCCAGTCCACCGTCTGGGCTGGGCTTCACCCGT
GCAGTCCCGCGTGGGTGACTCCTTCTACATCCGGCACTCACTTTGAGCTGGAGCCCAGTCC[GA]CCGTCTGGGCTGGGCTTCACCCGTGGCGACGTCTTCCACGTGCTGGACA
CGCTGCACCCC
104908 IS [GA]
104910 I S GAGGGGTGAGAAAATAGTTCAACAATATGATTATCCATCTCAT
104910 P T S CGCGCCGAGGACTGGAGTCTACCTCAAGY
104910 P C S ATGACGTGGCAGACGCTGGAGTCTACCTCAAY
104910 T T S ACAACTTGAGGTAGACTCCAGTTGAGATGGATAATCATATTGTTGAACTATTTTCTCACCCCTCTT
104910 T C S ACAACTTGAGGTAGACTCCAGCTGAGATGGATAATCATATTGTTGAACTATTTTCTCACCCCTCTT

TIP3

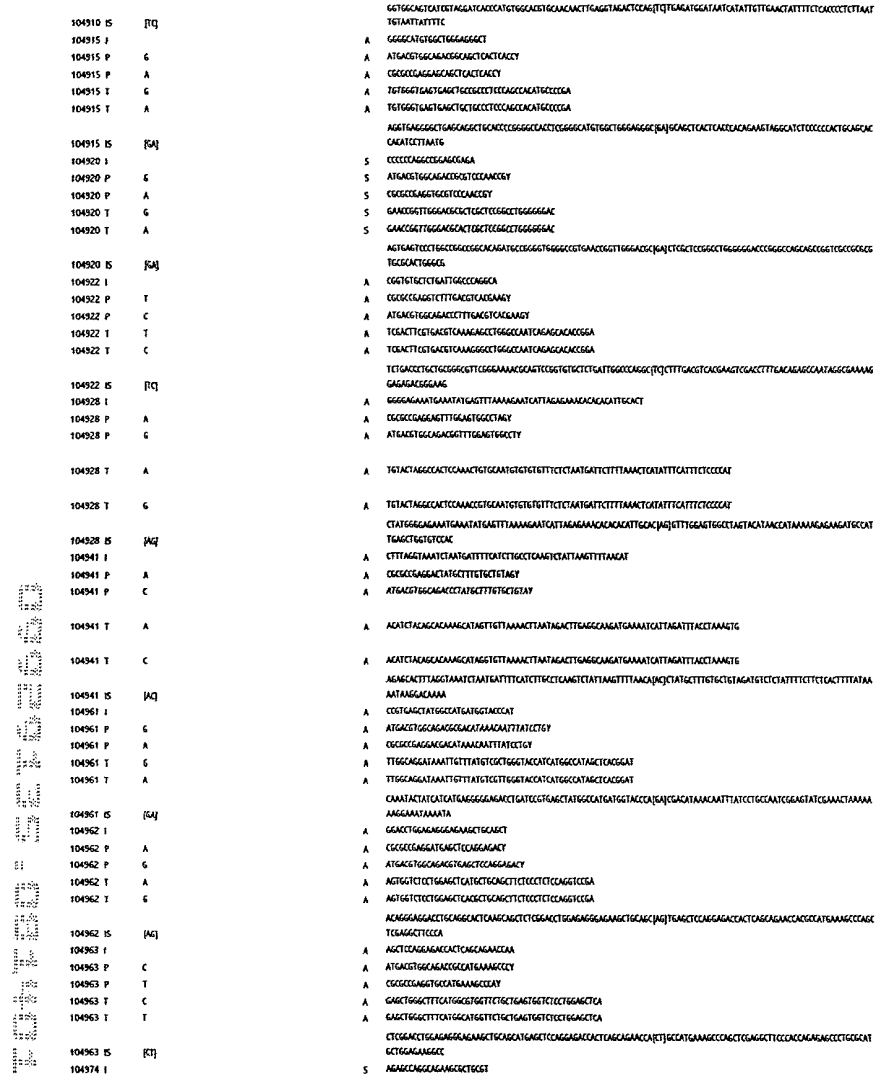


FIGURE 129C

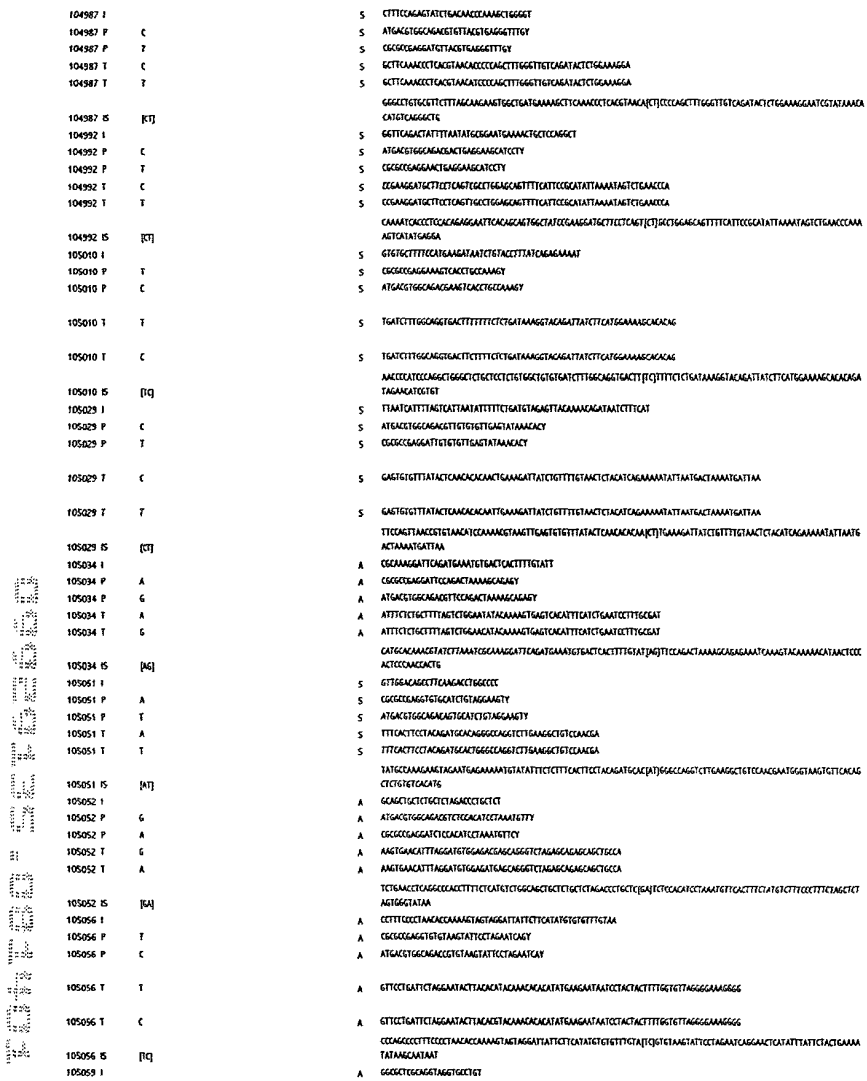
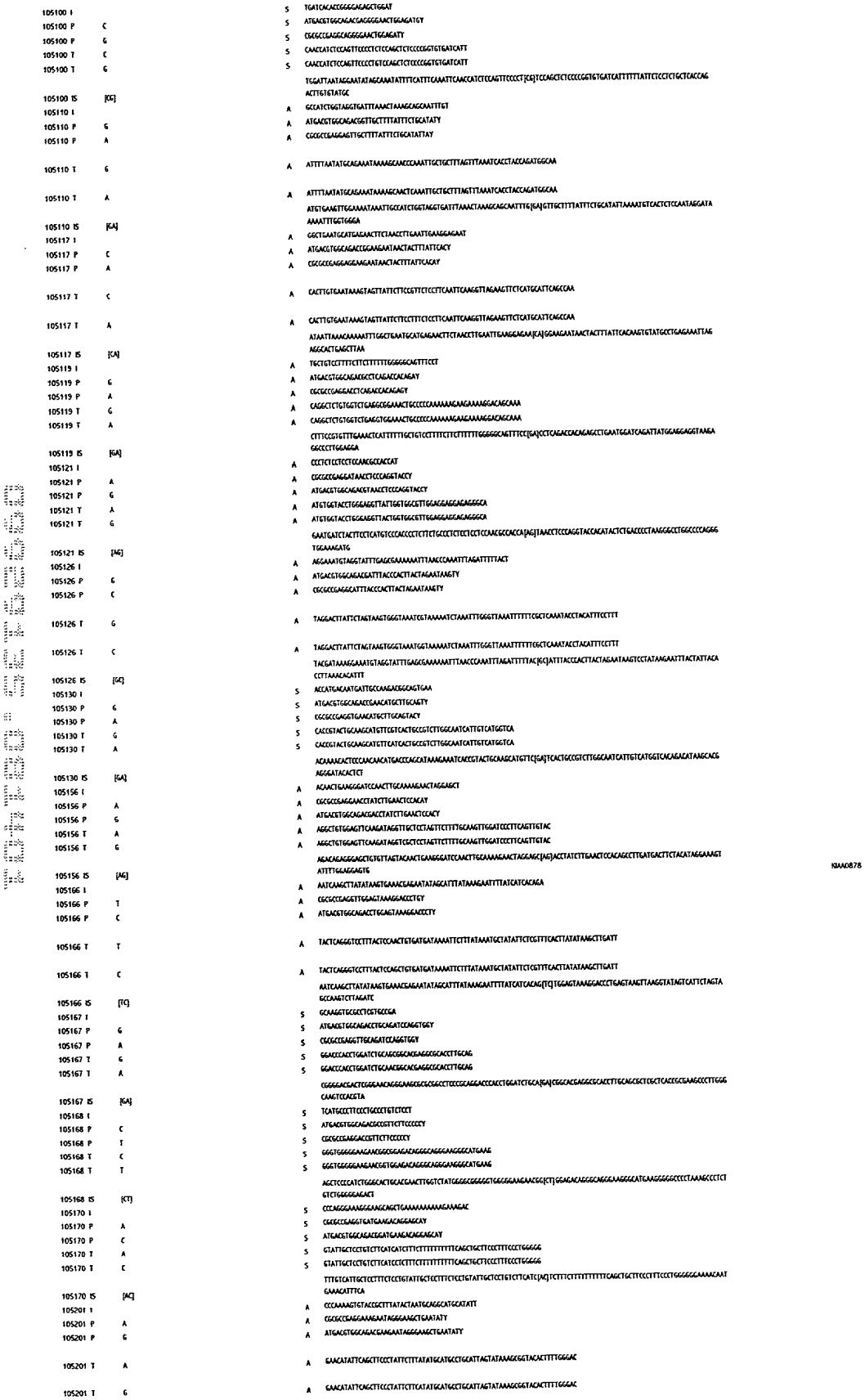

104987 1 S CTTTCCAGAGTATCTGACAACCCAAAGCTGGGGT
104987 P C S ATGACGTGGCAGAGTGTTACGTGAGGGTTTGY
104987 P T S CGCGCCGAGGATGTTACGTGAGGGTTTGY
104987 T C S GCTTCAAACCCTCACGTAACACCCCCAGCTTTGGGTTGTCAGATACTCTGGAAAGGA
104987 T T S GCTTCAAACCCTCACGTAACATCCCCAGCTTTGGGTTGTCAGATACTCTGGAAAGGA
104987 IS [CT] GGGCCTGTGCGTTCTTTAGCAAGAAGTGGCTGATGAAAAGCTTCAAACCCTCACGTAACA[CT]CCCCAGCTTTGGGTTGTCAGATACTCTGGAAAGGAATCGTATAAACA CATGTCAGGGCTG
104992 1 S GGTTCAGACTATTTTAATATGCGGAATGAAAACTGCTCCAGGCT
104992 P C S ATGACGTGGCAGAGCACTGAGGAAGCATCCTY
104992 P T S CGCGCCGAGGAACTGAGGAAGCATCCTY
104992 T C S CCGAAGGATGCTTCCTCAGTCGCCTGGAGCAGTTTTCATTCCGCATATTAAAATAGTCTGAACCCA
104992 T T S CCGAAGGATGCTTCCTCAGTYGCCTGGAGCAGTTTTCATTCCGCATATTAAAATAGTCTGAACCCA
104992 IS [CT] CAAAATCACCCTCCACAGAGGAATTCACAGCAGTGGCTATCCGAAGGATGC?TCCTCAGT[CT]GCCTGGAGCAGTTTTCATTCCGCATATTAAAATAGTCTGAACCCAAA AGTCATATGAGGA
105010 1 S GTGTGCTTTTCCATGAAGATAATCTGTACCTTATCAGAGAAAAT
105010 P T S CGCGCCGAGGAAAGTCACCTGCCAAAGY
105010 P C S ATGACGTGGCAGACGAAGTCACCTGCCAAAGY
105010 T T S TGATCTTGGCAGGTGACTTTTTTTCTCTGATAAAGGTACAGATTATCTTCATGGAAAAGCACACAG
105010 T C S TGATCTTTGGCAGGTGACTTCTTTTCTCTGATAAAGGTACAGATTATCTTCATGGAAAAGCACACAG
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105029 1 S TTAATCATTTTAGTCATTAATATTTTTCTGATGTAGAGTTACAAAACAGATAATCTTTCAT
105029 P C S ATGACGTGGCAGACGTTGTGTGTGATAATAAACACY
105029 P T S CGCGCCGAGGATTGTGTGTTGAGTATAAACACY
105029 T C S GAGTGTGTTTATACTCAACACACAACTGAAAGATTATCTGTTTTGTAACTCTACATCAGAAAAATATTAATGACTAAAATGATTAA
105029 T T S GAGTGTGTTTATACTCAACACACAATTGAAAGATTATCTGTTTTGTAACTCTACATCAGAAAAATATTAATGACTAAAATGATTAA
105029 IS [CT] TTCCAGTTAACCGTGTAACATCCAAAACGTAAGTTGAGTGTGTTATACTCAACACACAA[CT]TGAAAGATTATCTGTTTTGTAACTCTACATCAGAAAAATATTAATG ACTAAAATGATTAA
105034 1 A CGCAAAGGATTCAGATGAAATGTGACTCACTTTTGTATT
105034 P A A CGCGCCGAGGATTCCAGACTAAAAGCAGAGY
105034 P G A ATGACGTGGCAGAGTTCCAGACTAAAAGCAGAGY
105034 T A A ATTTCTCTGCTTTTAGTCTGGAATATACAAAAGTGAGTCACATTTCATCTGAATCCTTTGCGAT
105034 T G A ATTTCTCTGCTTTTAGTCTGGAACATACAAAAGTGAGTCACATTTCATCTGAATCCTTTGCGAT
105034 IS [AG] CATGCACAAACAETATCTTAAATCGCAAAGGATTCAGATGAAATGTGACTCACTTTTGTATJAGTTCCAGACTAAAAGCAGAGAAATCAAAGTACAAAAACATAACTCCC ACTCCCAACCACTG
105051 1 S GTTGGACAGCCTTCAAGACCTGGCCCC
105051 P A S CGCGCCGAGGTGTGCATCTGTAGGAAGTY
105051 P T S ATGACGTGGCAGACAGTGCATCTGTAGGAAGTY
105051 T A S TTTCACTTCCTACAGATGCACAGGGCCAGGTCTTGAAGGCTGTCCAACGA
105051 T T S TTTCACTTCCTACAGATGCACTGGGCCAGGTCTTGAAGGCTGTCCAACGA
105051 IS [AT] TATGCCAAAGAAGTAGAATGAGAAAAATGTATATTTCTCTTTCACTTCCTACAGATGCAC[AT]GGGCCAGGTCTTGAAGGCTGTCCAACGAATGGGTAAGTGTTCACAG CTCTGTGTCACATG
105052 1 A GCAGCTGCTCTGCTCTAGACCCTGCTCT
105052 P G A ATGACGTGGCAGACGTCTCCACATCCTAAATGTTY
105052 P A A CGCGCCGAGGATCTCCACATCCTAAATGTTCY
105052 T G A AAGTGAACATTTAGGATGTGGAGACGAGCAGGGTCTAGAGCAGAGCAGCTGCCA
105052 T A A AAGTGAACATTTAGGATGTGGAGATGAGCAGGGTCTAGAGCAGAGCAGCTGCCA
105052 IS [GA] TCTGAACCTCAGGCCCACCTTTTCTCATGTCTGGCAGCTGCTCTGCTCTAGACCCTGCTC[GA]TCTCCACATCCTAAATGTCACTTTCTATGTCTTTCCCTTTCTAGCTCT AGTGGGTATAA
105056 1 A CCTTTCCCCTAACACCAAAAGTAGTAGGATTATTCTTCATATGTGTGTTTGTAA
105056 P T A CGCGCCGAGGTGTGTAAGTATTCCTAGAATCAGY
105056 P C A ATGACGTGGCAGACCGTGTAAGTATTCCTAGAATCAY
105056 T T A GTTCCTGATTCTAGGAATACTTACACATACAAACACACATATGAAGAATAATCCTACTACTTTTGGTGTTAGGGGAAAGGG
105056 T C A GTTCCTGATTCTAGGAATACTTACACGTACAAACACACATATGAAGAATAATCCTACTACTTTTGGTGTTAGGGGAAAGGG
105056 IS [TC] CCCAGCCCCTTCCCCTAACACCAAAAGTAGTAGGATTATTCTTCATATGTGTGTTTGTA[TC]GTGTAAGTATTCCTAGAATCAGCAACTCATATTTATTCTACTGAAAA TATAAGCAATAAT
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105059 P C A ATGACCTGGCAGACCCCTCGGGCTGCY
105059 P A A CGCGCCGAGGACCTCGGGCTGCY
105059 T C A CTCTGCAGCCCGAGGGCAGGCACCTACCTGCGAGCGCCTG
105059 T A A CTCTGCAGCCCGAGGTCAGGCACCTACCTGCGAGCGCCTG
105059 IS [CA] GTGCCCATGCAGATGCCAAGCCCAGCAGAGTCCAGCAGGCGCTCGCAGGTAGGTGCCTG[CA]CCTCCGGCCTGCAGACAGCTCTGTGCCCTGCGGGACTTGGTGGGGAGG AAATTGTGATGTG
105063 1 S GGCCTTACTCTGGGTCCTTCAAACATAGTGAGTGAGT
105063 P T S CGCGCCGAGGATAGAAGTTTCTGGAAGCCY
105063 P G S ATGACGTGGCAGACCTAGAAGTTTCTGGAAGCCY
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105063 IS [TG] GGGAATATAGAATGCGTAAGCCTTTGACTGGCCTAATCTTTAGGCTTCCAGAAACTTCTA[TG]CTCACTCACTATGTTTGAAGGACCCAGAGTAAGGCCCAACCTCAGAA CAGCATCACCTCT
105086 1 S CTCCAGCCAGAGCTTGGCCGCTT
105086 P C S ATGACGTGGCAGACGAGCCTCAGTAGTATGGCY
105086 P T S CGCGCCGAGGAAGCCTCAGTAGTATGGCY
105086 T C S CAGTGCCATACTACTGAGGCTCAGCGGCCAAGCTCTGGCTGGAGCC
105086 T T S CAGTGCCATACTACTGAGGCTTAGCGGCCAAGCTCTGGCTGGAGCC
105086 IS [CT] CCCGCCACTGGCTTTCCGGGAGACAGCAGCGGCAGGGTCCTCAGTGCCATACTACTGAGGCT[CT]AGCGGCCAAGCTCTGGCTGGAGCCACGCTGAGGAAAGGATTAGAAAC CCAGATCCCTTGA
105087 1 A CCCTCAGAGAAAACCCTCAGCTGCGGCC
105087 P G A ATGACGTGGCAGACGTGGCCGAGACGGY
105087 P T A CGCGCCGAGGTTGGCCGAGACGGY
105087 T G A GCCCCCGTCTCCGGCCACGGCGCAGCTCAGGGTTTTCTCTGAGGGCT
105087 T T A GCCCCCGTCTCGGCCAAGCCGCAGCTCAGGGTTTTCTCTGAGGGCT
105087 IS [GT] CTGCCTCCTCTCCCCGGGCCTAGCCTCTCAGAGCCCTCAGAGAAAACCCTGAGCTGCGC[GT]TGGCCCAGACGGGGGCGTGGCCTGGCAGGTGGGCGGGCCCTTCCGTGG GCGGGCCCGCGA
105096 1 S CCTCCTCACTTACCTGAATTATATTCAGCTGTTTCATTAACTCCTGCT
105096 P C S ATGACGTGGCAGACGGCCAACAACACAAAAGY
105096 P T S CGCGCCGAGGAGGCAAGACAACAAAAGY
105096 T C S AATGCTTTTGTTGTCCCCCAGGAGTTAATGAAACAGCTGAATATAATTCAGGTAAGTGAGGAGGAG
105096 T T S AATGCTTTTGTTGTCCCCCAGGAGTTAATGAAACAGCTGAATATAATTCAGGTAAGTGAGGAGGAG
105096 IS [CT] AGATTTTAAGCTATTTTGGCAAGAGTGTGGACTTGCTATAATGCTTTTGTTGTCCTGCC[CT]GCAGGAGTTAATGAAACAGCTGAATATAATTCAGGTAAGTGAGGAG GAGGTAACTTTCCT

FIGURE 129C



KIAA0878

FIGURE 129C

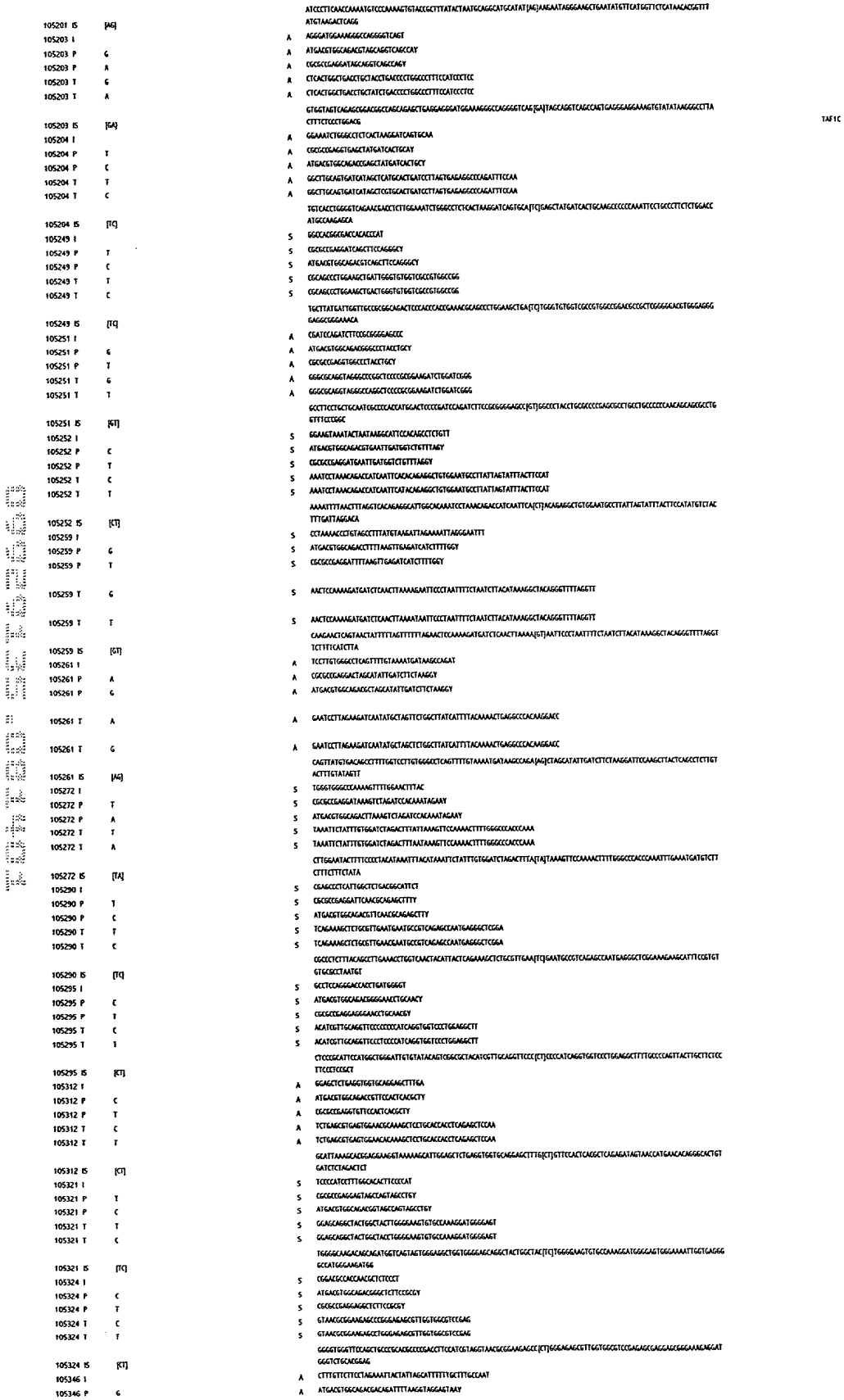

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105203 P G A ATGACGTGGCAGACGTAGCAGGTCAGCCAY
105203 P A A CGCGCCGAGGATAGCAGGTCAGCCAGY
105203 T G R CTCACTGGCTGACCTGCTACCTGACCCCTGGCCCTTTCCATCCCTCC
105203 T A A CTCACTGGCTGACCTGCTATCTGACCCCTGGCCCTTTCCATCCCTCC
105203 IS [GA] GTGGTAGTCAGAGCGGACGGCCAGCAGAGCTGAGGAGGGATGGAAAGGGCCAGGGGTCAG[GA]TAGCAGGTCAGCCAGTGAGGGAGGAAAGTGTATATAAGGGCCTTA CTTTCTCCCTGGACG TAF1C
105204 I A GGAAATCTGGGCCTCTCACTAAGGATCAGTGCAA
105204 P T A CGCGCCGAGGTGAGCTATGATCACTGCAY
105204 P C A ATGACGTGGCAGACCGAGCTATGATCACTGCY
105204 T T A GGCTTGCAGTGATCATAGCTCATGCACTGATCCTTAGTGAGAGGCCCAGATTTCCAA
105204 T C A GGCTTGCAGTGATCATAGCTCGTGCACTGATCCTTAGTGAGAGGCCCAGATTTCCAA
105204 IS [TC] TGTCACCTGGGGTCAGAACGAACCTCTTGGAAATCTGGGCCTCTCACTAAGGATCAGTGCA[TC]GAGCTATGATCACTGCAAGCCCCCCAAATTCCTGCCCTCTCTGGACC ATGCCAAGAGCA
105249 I S GGCCACGGGGAACCACACCCAT
105249 P T S CGCGCCGAGGATCAGCTTCCAGGGCY
105249 P C S ATGACGTGGCAGACGTCAGCTTCCAGGGCY
105249 T T S CGCAGCCCTGGAAGCTGATTGGGTGTGGTCGCCGTGGCCGG
105249 T C S CGCAGCCCTGGAAGCTGACTGGGTGTGGTCGCCGTGGCCGG
105249 IS [TC] TGCTTATGATTGGTGCCGCGGCAGACTCCCAGCCACCGAAACGCAGCCCTGGAAGCTGA[TC]TGGGTGTGGTCGCCGTGGCCGGACGCCGCTCGGGGGACGTGGGAGGG GAGGCTGGGAAACA
105251 I A CGATCCAGATCTTCCGCGGGGAGCCC
105251 P G A ATGACGTGGCAGACGGGCCCTACCTGCY
105251 P T A CGCGCCGAGGTGGCCCTACCTGCY
105251 T G A GGGCGCAGGTAGGGCCCGCTCCCCGCGGAAGATCTGGATCGGG
105251 T T A GGGCGCAGGTAGGGCCAGGCTCCCCGCGGAAGATCTGGATCGGG
105251 IS [GT] GCCTCCTCGTGCAATCGCCCCACCATGCACTCCCCGATCCAGATCTTCCGCGGGGAGCC[GT]GGCCCTACCTGGGCCCCGAGCGCCTGCCTGCCCCCCAACAGCAGCGCCTG GTTTCCTGGC
105252 I S GGAAGTAAATACTAATAAGGCATTCCACAGCCTCTGTT
105252 P C S ATGAGTGGCAGACGTGAATTGATGGTCTGTTTAGY
105252 P T S CGCGCCGAGGATGAATTGATGGTCTGTTTAGGY
105252 T C S AAATCCTAAACAGACCATCAATTCATACACAGAGGCTGTGGAATGCCTTATTAGTATTTACTTCCAT
105252 T T S AAATCCTAAACAGACCATCAATTCATACACAGAGGCTGTGGAATGCCTTATTAGTATTTACTTCCAT
105252 IS [CT] AAAATTTTAACTTTAGGTCACAGAGGCATTGGCACAAATCCTAAACAGACCATCAATTCA[CT]ACAGAGGCTGTGGAATGCCTTATTAGTATTTACTTCCATATGTCTAC TTTGATTAGGACA
105259 I S CCTAAAACCCTGTAGCCTTTATGTAAGATTAGAAAATTAGGGAATTT
105259 P G S ATGACGTGGCAGACCTTTTAAGTTGAGATCATCTTTTGGY
105259 P T S CGCGCCGAGGATTTTAAGTTGAGATCATCTTTTGGY
105259 T G S AACTCCAAAAGATGATCTCAACTTAAAAGAATTCCCTAATTTTCTAATCTTACATAAAGGCTACAGGGTTTTAGGTT
105259 T T S AACTCCAAAAGATGATCTCAACTTAAAATAATTCCCTAATTTTCTAATCTTACATAAAGGCTACAGGGTTTTAGGTT
105259 IS [GT] CAAGAACTCAGTAACTATTTTTAGTTTTTAGAACTCCAAAAGATGATCTCAACTTAAAA[GT]AATTCCCTAATTTTCTAATCTTACATAAAGGCTACAGGGTTTTAGGT TCTTTTCATCTTA
105261 I A TCCTTGTGGGCCTCAGTTTTGTAAAATGATAAGCCAGAT
105261 P A A CGCGCCGAGGACTAGCATATTGATCTTCTAAGGY
105261 P G A ATGACGTGGCAGACGCTAGCATATTGATCTTCTAAGGY
105261 T A A GAATCCTTAGAAGATCAATATGCTAGTTCTGGCTTATCATTTTACAAAACTGAGGCCCACAAGGACC
105261 T G A GAATCCTTAGAAGATCAATATGCTAGCTCTGGCTTATCATTTTACAAAACTGAGGCCCACAAGGACC
105261 IS [AG] CAGTTATGTGACAGCCTTTTGGTCCTTGTGGGGCTCAGTTTTGTAAAATGATAAGCCAGA[AG]CTAGCATATTGATCTTCTAAGGATTCCAAGCTTACTCAGCCTCTTGT ACTTTGTATAGTT
105272 I S TGGGTGGGCCCAAAAGTTTTGGAACTTTAC
105272 P T S CGCGCCGAGGATAAAGTCTAGATCCACAAATAGAAY
105272 P A S ATGACGTGGCAGACTTAAAGTCTAGATCCACAAATAGAAY
105272 T T S TAAATTCTATTTGTGGATCTAGACTTTATTAAAGTTCCAAAACTTTTGGGCCCACCCAAA
105272 T A S TAAATTCTATTTGTGGATCTAGACTTTAATAAAGTTCCAAAACTTTTGGGCCCACCCAAA
105272 IS [TA] CTTGGAATACTTTTCCCCTACATAAATTTACATAAATTCTATTTGTGGATCTAGACTTTA[TA]TAAAGTTCCAAAACTTTTGGGCCCACCCAAATTTGAAATGATGTCTT CTTTCTTTCTATA
105290 I S CGAGCCCTCATTGGCTCTGACGGCATTCT
105290 P T S CGCGCCGAGGATTCAACGCAGAGCTTTY
105290 P C S ATGACGTGGCAGACGTTCAACGCAGAGCTTY
105290 T T S TCAGAAAGCTCTGCGTTGAACGAATGCCGTCAGAGCCAATGAGGGCTCGGA
105290 T C S TCAGAAAGCTCTGCGTTGAACGAATGCCGTCAGAGCCAATGAGGGCTCGGA
105290 IS [TC] CGCCCTCTTTACAGCCTTGAAACCTGGTCAACTACATTACTCAGAAAGCTCTGCGTTGAA[TC]GAATGCCGTCAGAGCCAATGAGGGCTCGGAAAGAAGCATTTCCGTGT GTGCGCCTAATGT
105295 I S GCCTCCAGGGACCACCTGATGGGGT
105295 P C S ATGACGTGGCAGACGGGGAACCTGCAACY
105295 P T S CGCGCCGAGGAGGGAACCTGCAACGY
105295 T C S ACATCGTTGCAGGTTCCCCCCCCATCAGGTGGTCCCTGGAGGCTT
105295 T T S ACATCGTTGCAGGTTCCCTCCCATCAGGTGGTCCCTGGAGGCTT
105295 IS [CT] CTCCCGCATTCCATGGCTGGGAATTGTGTATACAGTCGGCGCTACATCGTTGCAGGTTCCC[CT]CCCCATCAGGTGGTCCCTGGAGGCTTTTGCCCCAGTTACTTGCTTCTCC TTCCTCCGCT
105312 I A GGAGCTCTGAGGTGGTGCAGGAGCTTTGA
105312 P C A ATGACGTGGCAGACCGTTCCACTCACGCTY
105312 P T A CGCGCCGAGGTGTTCCACTCACGCTY
105312 T C A TCTGAGCGTGAGTGGAACGCAAAGCTCCTGCACCACCTCAGAGCTCCAA
105312 T T A TCTGAGCGTGAGTGGAACACAAAGCTCCTGCACCACCTCAGAGCTCCAA
105312 IS [CT] GCATTAAAGCACGCAGGAAGGTAAAAAGCATTGGAGCTCTGAGGTGGTGCAGGAGCTTTG[CT]GTTCCACTCAGGCTCAGAGATAGTAACCATGAACACAGGGCACTGT GATCTCTAGACTCT
105321 I S TCCCCATCCTTTGGCACACTTCCCCAT
105321 P T S CGCGCCGAGGAGTAGCCAGTAGCCTGY
105321 P C S ATGACGTGGCAGACGGTAGCCAGTAGCCTGY
105321 T T S GGAGCAGGCTACTGGCTACCTGGGGAAGTGTGCCAAAGGATGGGGAGT
105321 T C S GGAGCAGGCTACTGGCTACCTGGGGAAGTGTGCCAAAGGATGGGGAGT
105321 IS [TC] TGGGGCAACACAGCAGATGGTCAGTAGTGGGAGGCTGGTGGGGAGCAGGCTACTGGCTAC[TC]TGGGGAAGTGTGCCAAAGGATGGGGAGTGGGAAATTGGTGAGGG GCCATGGGAAGATGG
105324 I S CGGAAGCCACCAACGCTCTCCCT
105324 P C S ATGACGTGGCAGACGGGCTCTTCCCGGY
105324 P T S CGCGCCGAGGAGGCTCTTCCGCGY
105324 T C S GTAACGCGGAAGAGCCCGGGAGAGCGTTGGTGGGGTCCGAG
105324 T T S GTAACGCGGAAGAGCCTGGGAGAGCGTTGGTGGGGTCCGAG
105324 IS [CT] GGGGTGGGTTCCAGCTGCCCGCAGCGCCCGACCTTCCATCGTAGGTAACGCGGAAGAGCC[CT]GGGAGAGCGTTGGTGGGGTCCGAGAGCCAGGAGCGGGAAAGAGGAT GGGTCTGCAGGGAG
105346 I A CTTTGTTCTTCCTAGAAATTACTATTAGCATTTTTTGCTTTGCCAAT
105346 P G A ATGACGTGGCAGACGACAGATTTTAAGGTAGGAGTAAY

FIGURE 129C

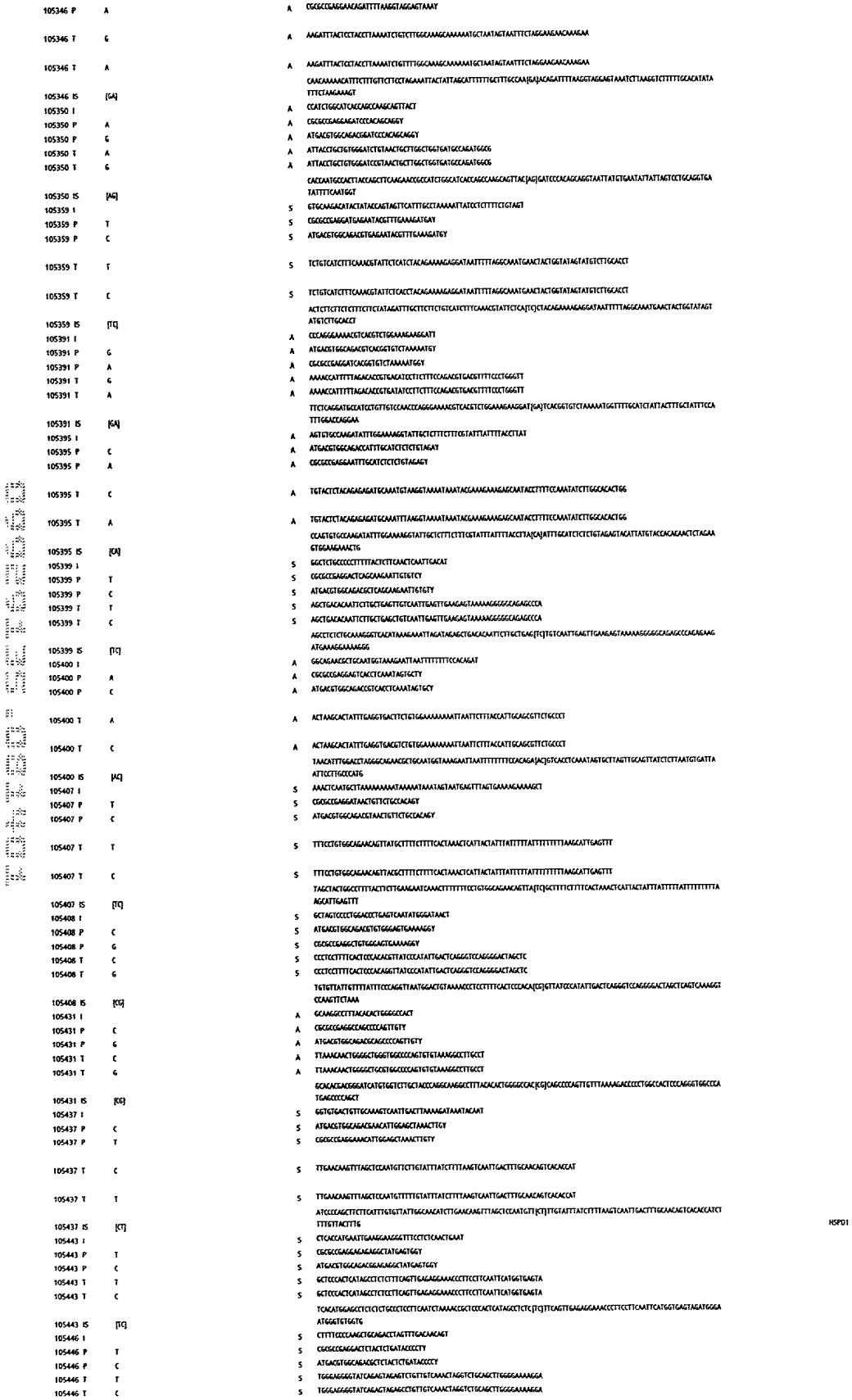


FIGURE 129C

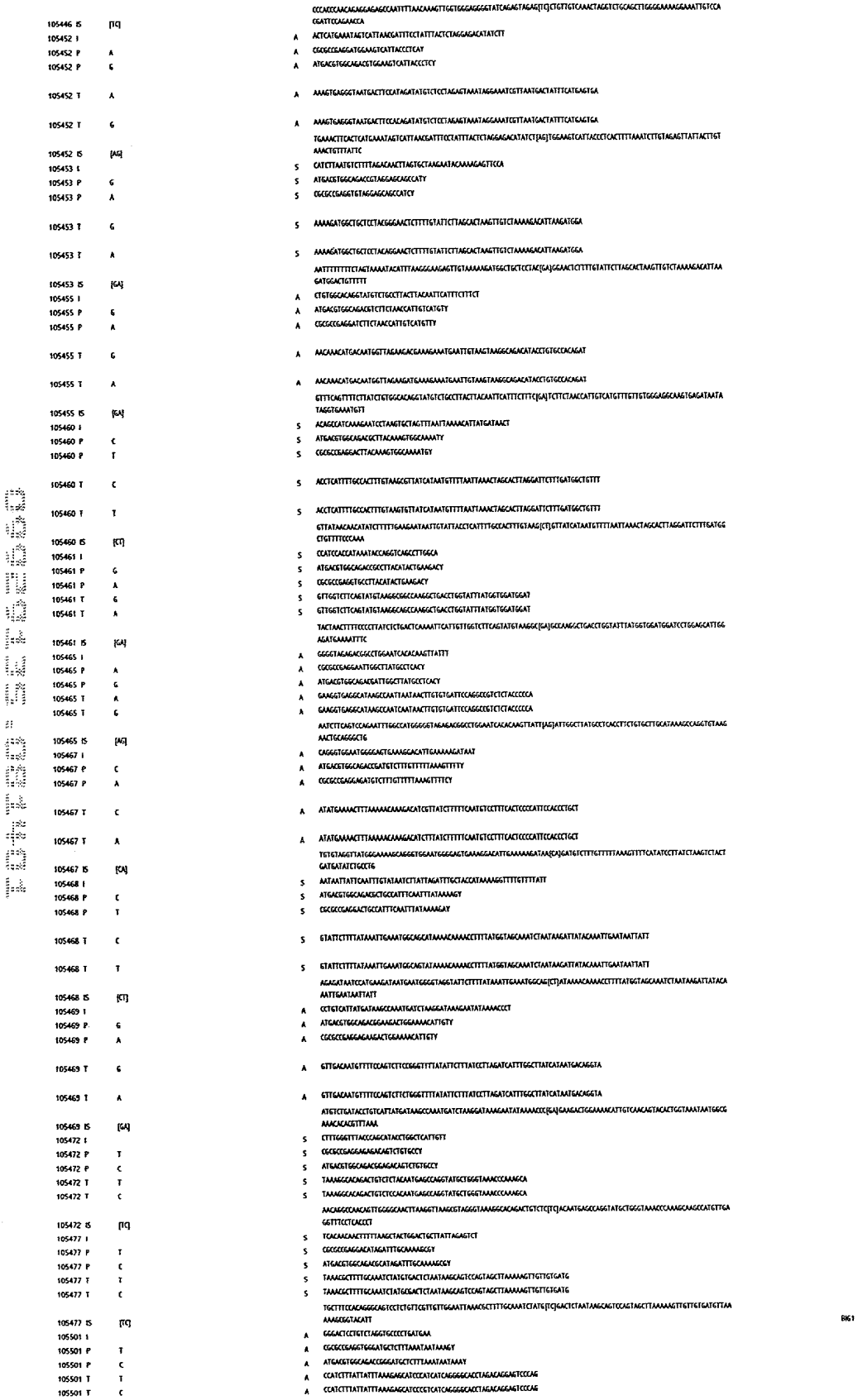
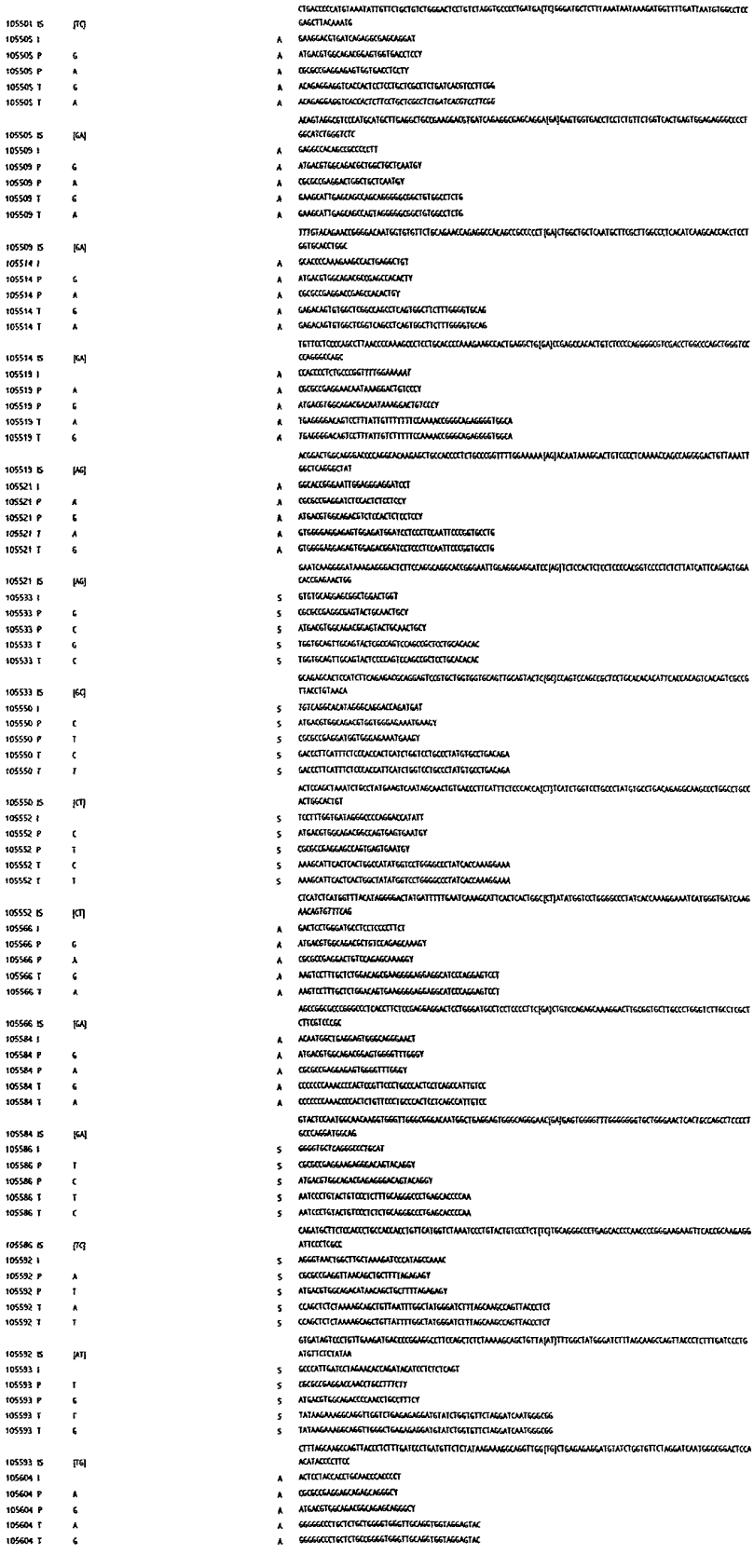
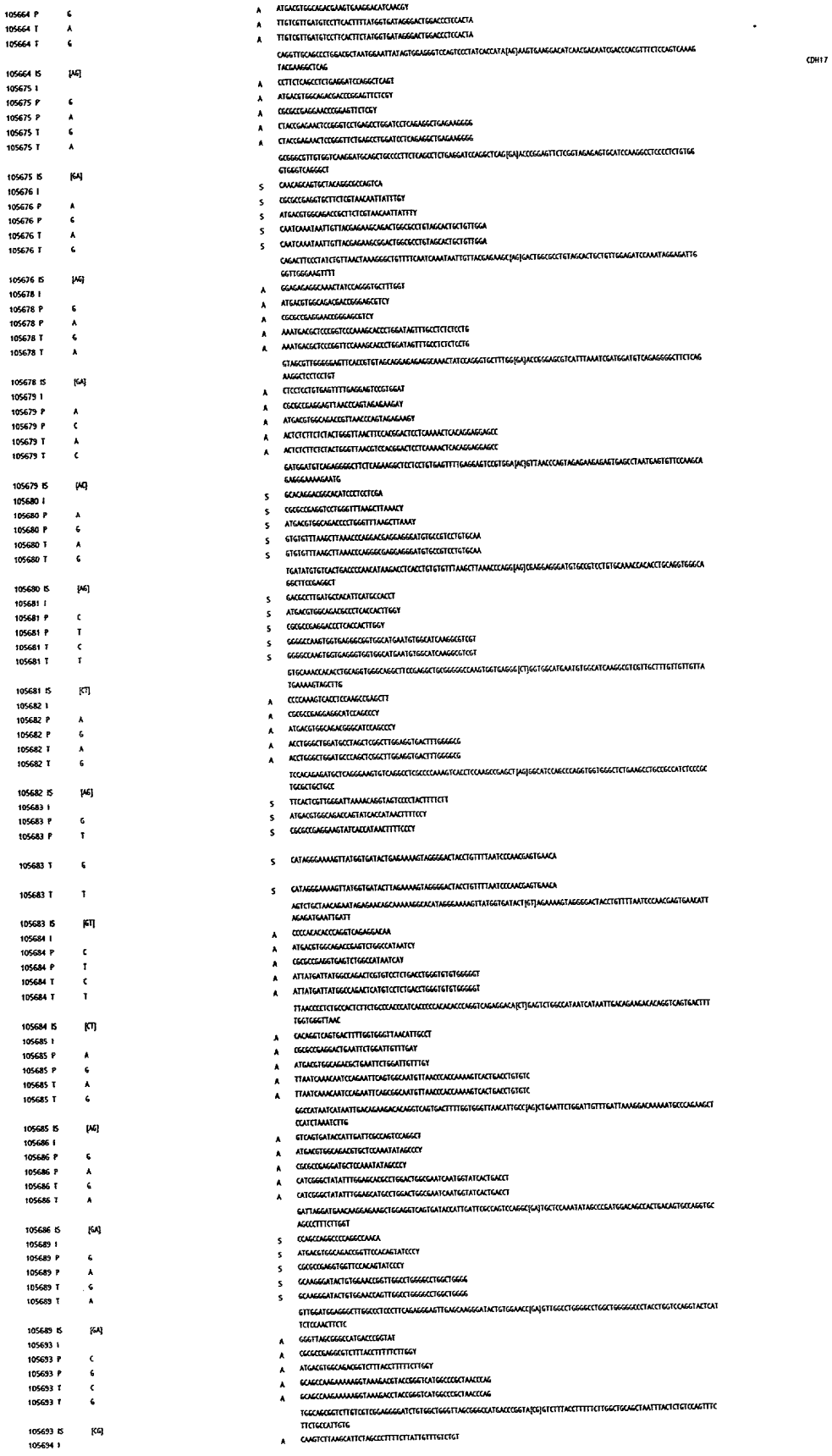


FIGURE 129C






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S GCAAGGGATACTGTGGAACCGGTTGGCCTGGGGCCTGGCTGGCG
S GCAAGGGATACTGTGGAACCAGTTGGCCTGGGGCCTGGCTGGGG
GTTGGATGCAGGGCTTGGCCCTCCCTTCAGAGGGAGTTGAGCAAGGGATACTGTGGAACC[GA]GTTGGCCTGGGGCCTGGCTGGGGCCCTACCTGGTCCAGGTACTCAT
TCTCCAACTTCTC
A GGGTTAGCGGGCCATGACCCGGTAT
A CGCGCCGAGGGTCTTTACCTTTTTCTTGGY
A ATGACGTGGCAGACGGTCTTTACCTTTTTCTTGGY
A GCAGCCAAGAAAAAGGTAAAGACCTACCGGGTCATGGCCCGCTAACCCAG
A GCAGCCAAGAAAAAGGTAAAGACCTACCGGGTCATGGCCCGCTAACCCAG
TGGCAGCGGTCTTGTCGTCGGAGGGGATCTGTGGCTGGGTTAGCGGGCCATGACCCGGTA[CG]GTCTTTACCTTTTTCTTGGCTGCAGCTAATTTACTCTGTCCAGTTTC
TTCTGCCATTGTG
A CAAGTCTTAAGCATTCTAGCCCTTTTCTTATTGTTTGTCTGT

CDH17

FIGURE 129C

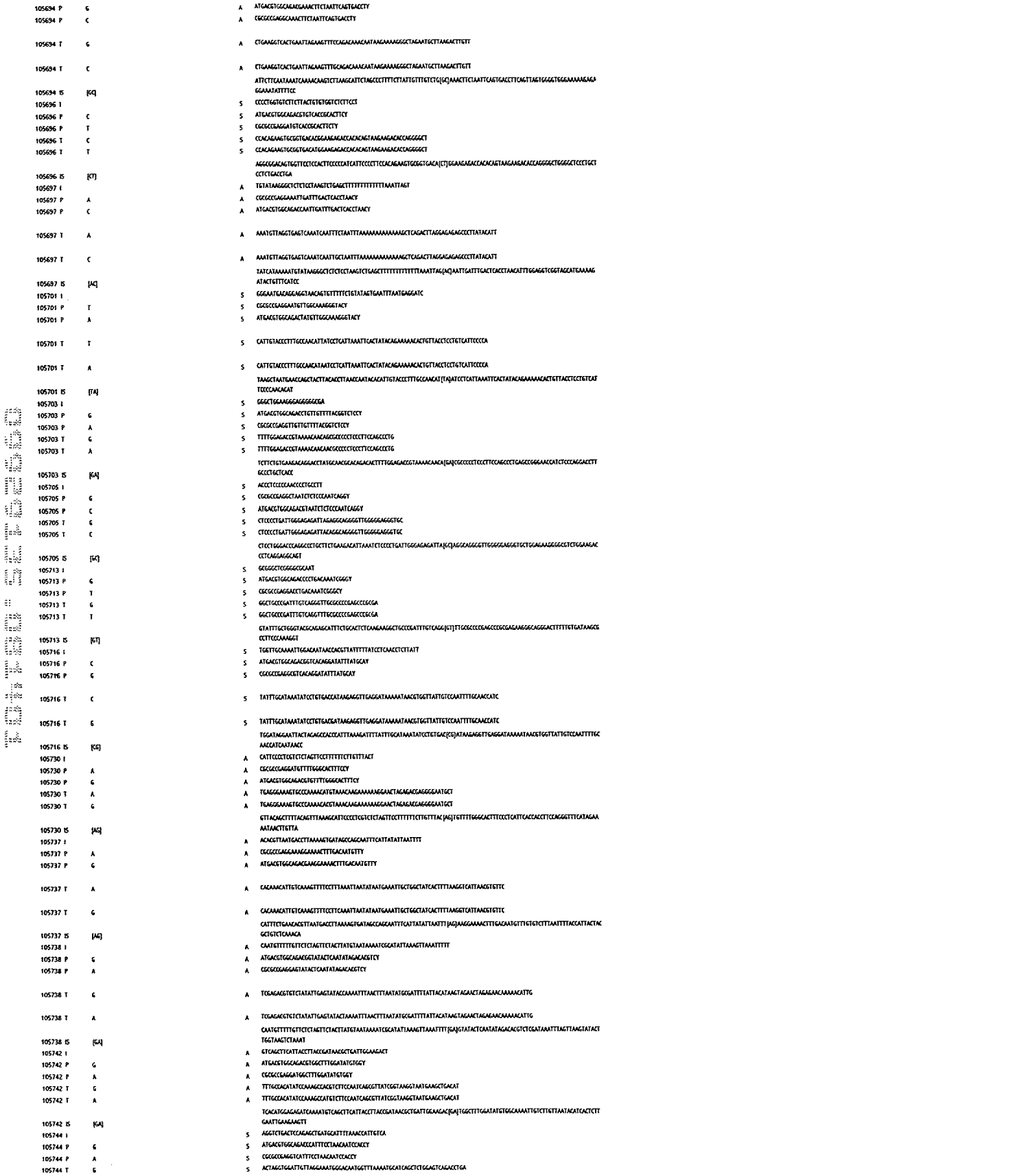


FIGURE 129C

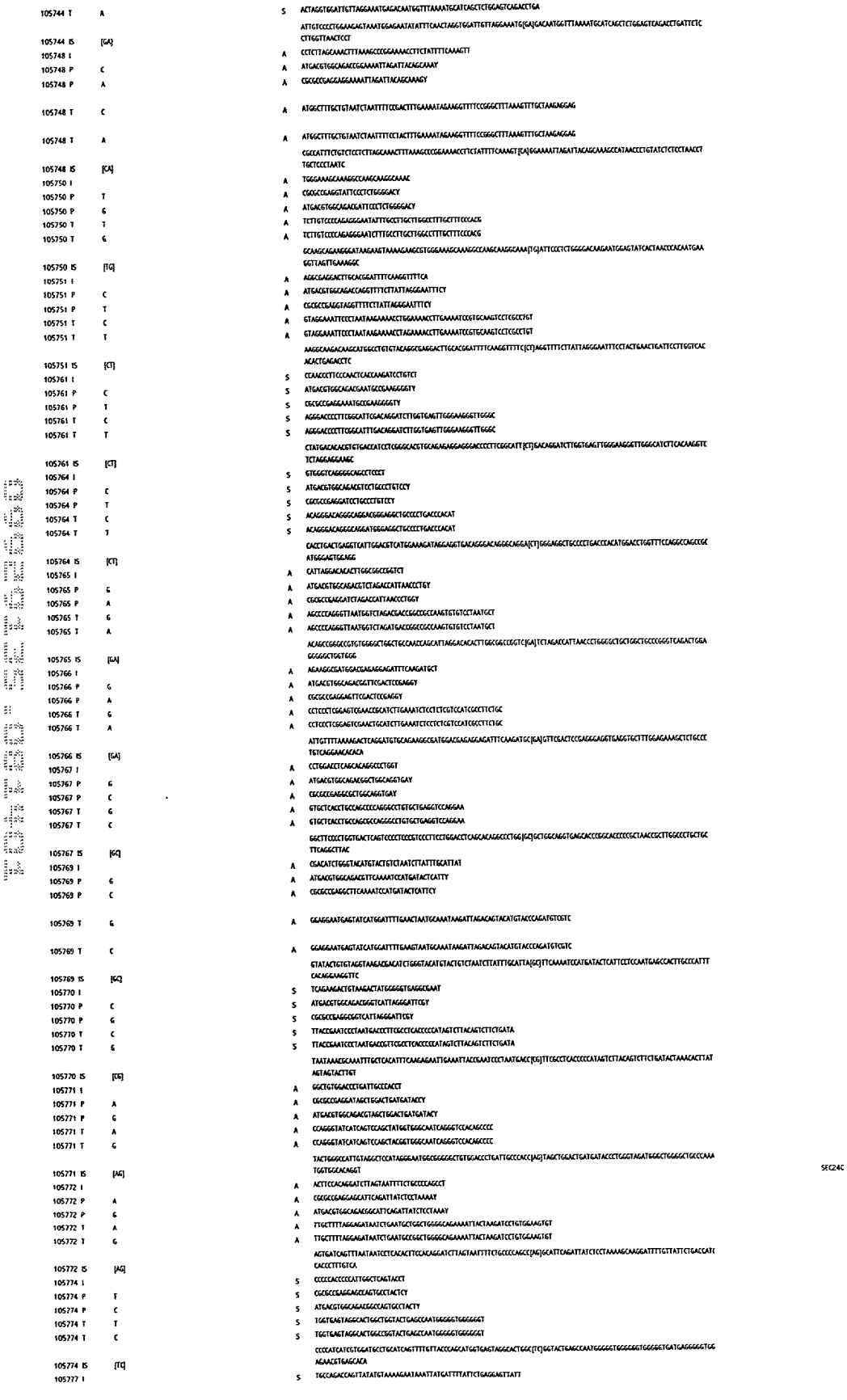
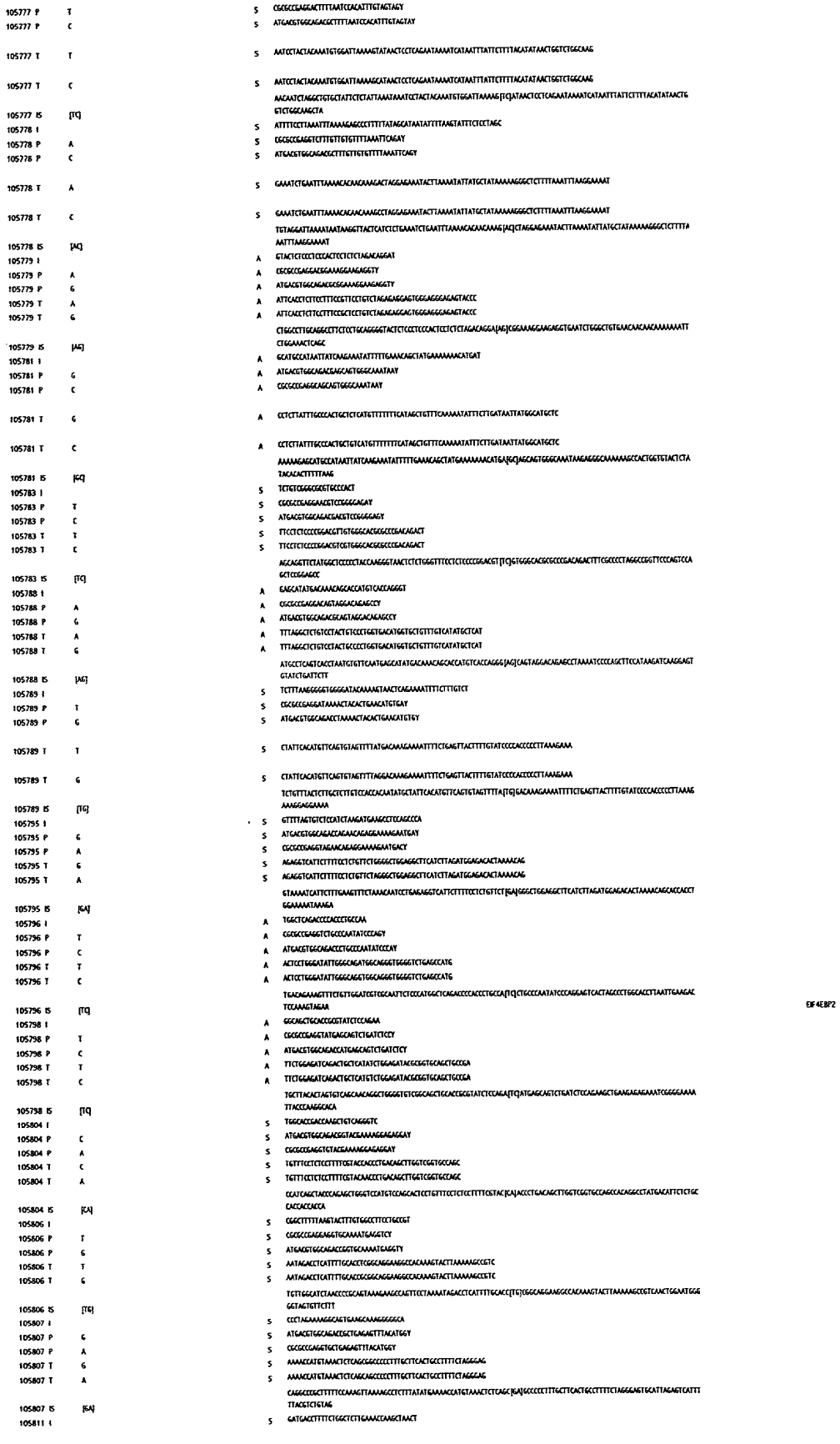


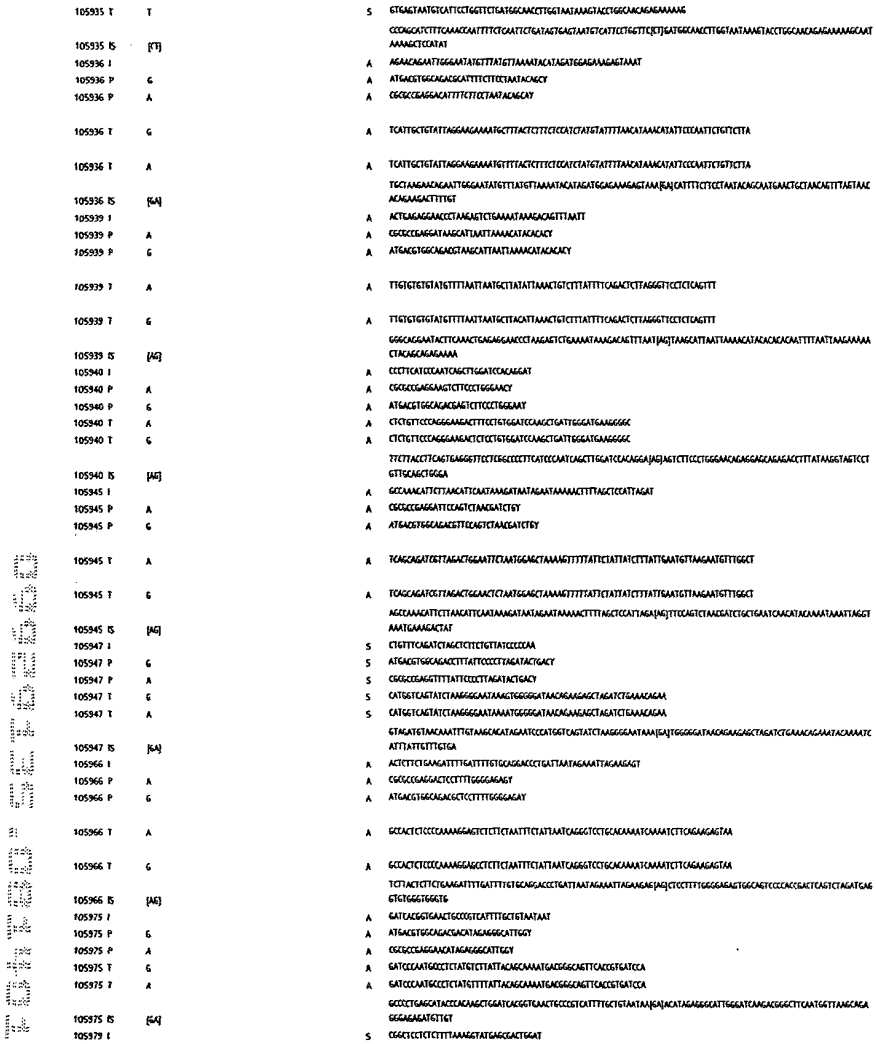
FIGURE 129C



EIF4EBP2

105811 P C S ATGACGTGGCAGACGACTCCTTTTTCTTCTGGGY
105811 P T S CGCGCCCAGGAACTCCTTTTCTCTCTGGGY
105811 T C S GAGGCCCAGAAGAAAAAGGAGTCGTTAGCTTGGTTTCAAGAGCCAGAAAAGGTCATCTA
105811 T T S GAGGCCCAGAAGAAAAAGGAGTTGTTAGCTTGGTTTCAAGAGCCAGAAAAGGTCATCTA
105811 IS [CT] GAAAGTGACAAATGCTTTACTTCCTACAAAGAAACTTTGAGGCCCAGAAGAAAAAGGAGT[CT]GTTAGCTTGGTTTCAAGAGCCAGAAAAGGTCATCTATGAGTAATAA CAGACTGGTCAGCA
105816 I S GGTTGTGAGATTGACGCAACAGACCTGAAAAAATCTACAAAAAGCAAATACTAAT
105816 P C S ATGACGTGGCAGACGAGTCAGGCCTGCTTY
105816 P T S CGCGCCCAGGAAGTCAGGCCTGCTTY
105816 T C S ACTCAAGCAGGCCTGACTCTTAGTATTTGCTTTTTGTAGATTTTTTCAGGTCTGTTGGTCAATCTCACAACCAT
105816 T T S ACTCAAGCAGGCCTGACTTTTAGTATTTGCTTTTTGTAGATTTTTTCAGGTCTGTTGGTCAATCTCACAACCAT
105816 IS [CT] AGGGACTTGAAGAGGGTATTCTCTAGAATTCTGCATGAAATTACTCAAGCAGGCCTGACT[CT]TTAGTATTTGCTTTTTGTAGATTTTTTCAGGTCTGTTGGTCAATCTC ACAACCATTGCAT
105817 I A CTTAGATCTGTATGAGTCCTTCCAGGGGCACTGAATTTTTCA
105817 P C A ATGACGTGGCAGACCGAGCCTACGTTTTCTCY
105817 P T A CGCGCCGAGGTGAGCCTACGTTTTCTCAY
105817 T C A TGGATGAGAAAACGTAGGCTCGGAAAAATTCAGTGCCCCTGGAAGGACTCATACAGATCTAAGCC
105817 T T A TGGATGAGAAAACGTAGGCTCAGAAAAATTCAGTGCCCCTGGAAGGACTCATACAGATCTAAGCC
105817 IS [CT] ATGTATAAAGGCTACTGGGCTTAGATCTGTATGAGTCCTTCCAGGGGCACTGAATTTTTC[CT]GAGCCTACGTTTTCTCATCCATAAAGTGAGTTGTGGCGAATGCATC TGAACATGTGGCA
105834 I S CCAGGGTTAGGAAAAATCTTTGAAACCACTTATCTTGTA
105834 P A S CGCGCCGAGGTTATTTACTCCATAGCATTCGTY
105834 P G S ATGACGTGGCAGACCTATTTACTCCATAGCATTCGTY
105834 T A S AGTGACGAATGCTATGGAGTAAATAAACAAGATAAGTGGTTTCAAAGATTTTTCCTAACCCTGGCT
105834 T G S AGTGACGAATGCTATGGAGTAAATAGACACAGATAAGTGGTTTCAAAGATTTTTCCTAACCCTGGCT
105834 IS [AG] AAATTCACAGCAAGAGAAAAGGGAGGAGTATTCTGAGAGTGACGAATGCTATGGAGTAAATA[AG]ACAAGATAAGTGGTTTCAAAGATTTTTCCTAACCCTGGCTACATA TCATGGTGGCTTCAT
105835 I S GGGCCAGGGCCAGGGGGATA
105835 P A S CGCGCCGAGGTGAGCCAGGCAGGY
105835 P G S ATGACGTGGCAGACCGAGCCAGGCAGGY
105835 T A S AGGGCCTGCCTGGCTCAATCCCCCTGGCCCTGGCCCTC
105835 T G S AGGGCCTGCCTGGCTCGATCCCCCTGGCCCTGGCCCTC
105835 IS [AG] TGCCACCAAACTCCCCAACAGCAAGAATCTCGGGGCTGCTGCCCCAGGGCCTGCCTGGCTC[AG]ATCCCCCTGGCCCTGGCCCTCTCCCAACTCGGGCCTGCCACCCCCACGCC CTACTTCCCC FLI20321
105851 I S ACAGCAACTGTGGTGCTGCTGCAGCT
105851 P C S ATGACGTGGCAGACGAGGTCACTGACAGCTY
105851 P G S CGCGCCGAGGCAGGTCACTGACAGCTY
105851 T C S TTAGAGCTGTCAGTGACCTCGCTGCAGCAGCACCACAGTTGCTGTCA
105851 T G S TTAGAGCTGTCAGTGACCTGGCTGCAGCAGCACCACAGTTGCTGTCA
105851 IS [CG] GAGGTTTGCCCAGAAACAGGAAAGAGATAATAAAGGGGCCATTAGAGCTGTCAGTGACCT[CG]GCTGCAGCAGCACCACAGTTGCTGTCAAGTTTCAAATAGTTTTT TTTTTTTCAATAAA
105855 I A CCCAAGCTCACCAAAAGCTTCCATGACAGGCA
105855 P T A CGCGCCGAGGTTGGAGTTCAGGATCCTCY
105855 P C A ATGACGTGGCAGACCTGGAGTTCAGGATCCTY
105855 T T A AACAGAGGATCCTGAACTCCAACCCTGTCATGGAAGCTTTTGGTGAGCTTGGGCT
105855 T C A AACAGAGGATCCTGAACTCCAGCCCTGTCATGGAAGCTTTTGGTGAGCTTGGGCT
105855 IS [TC] AAATGGGACTGAGATACTGTGCAAAGGAGCCCAAGCTCACCAAAAGCTTCCATGACAGGG[TC]TGGAGTTCAGGATCCTCTGTTCTATCCTCTCTGCAATCTTGTGGCTC TCCCAAGATGCAG
105864 I A CCCATGGGTTTCTCGGGAGATGGTAAAGGGAGT
105864 P G A ATGACGTGGCAGACGGAAGTGAGCAGAATTTTAACY
105864 P A A CGCGCCGAGGAGAAGTGAGCAGAATTTTAACY
105864 T G A GATGGTTAAAATTCTGCTCACTTCCCTCCCTTTACCATCTCCCGAGAACCCATGGGGC
105864 T A A GATGGTTAAAATTCTGCTCACTCTCTCCCTTTACCATCTCCCGAGAACCCATGGGGC
105864 IS [GA] TGATTCTCAAAGTGGGTCCCACGGGGGCCCCATGGGTTTCTCGGGAGATGGTAAAGGGAG[GA]GAAGTGAGCAGAATTTTAACCATCCCACCCATTCAGTCAGTCAATC AACAAACATTGCTT
105872 I S AACCCACGGATAACTTTCCTTAACAGTACTGTAAAACTTAATTACT
105872 P G S ATGACGTGGCAGACCCTCTTCCTTTTGTCTGCY
105872 P T S CGCGCCGAGGACTCTTCCTTTTGTCTGCY
105872 T G S CTCTGCAGACAAAAGGAAGAGGTAATTAAGTTTTACAGTACTGTTAAAGGAAAGTTATCCGTGGGTTCA
105872 T T S CTCTGCAGACAAAAGGAAGAGTGTAATTAAGTTTTACAGTACTGTTAAAGGAAAGTTATCCGTGGGTTCA
105872 IS [GT] AATTCCAAATTATCCAAATCTACTTCTAGTTCGAGTAAACTCTGCAGACAAAAGGAAGAG[GT]GTAATTAAGTTTTACAGTACTGTTAAAGGAAAGTTATCCGTGGGTT CATGATTCAAAGTG
105888 I S CGCCTTCGATCGCAGTGAAGGAGAGAGTAAGT
105888 P C S ATGACGTGGCAGACGAATTTCCAGTCCATCTGGY
105888 P G S CGCGCCGAGGCAATTTCCAGTCCATCTGGY
105888 T C S TTTACCAGATGGACTGGAAATTCCTTACTCCTCTCCCTTCACTGCGATCGAAGCCGCC
105888 T G S TTTACCAGATGGACTGGAAATTGCTTACTCCTCTCCCTTCACTGCGATCGAAGCCGCC
105888 IS [CG] GCAGAGTGAGTGAGAGGGGAGGTCAGGGGAGTCACAGCTTTACCAGATGGACTGGAAATT[CG]CTTACTCTCTCCCTTCACTGCGATCGAAGGCGCCCTGGCAAATCCAG GAGACAGCTCCGC
105893 I A TCTCAACTGAGTGTACCAACGTACATATGTCCACAGCTCT
105893 P A A CGCGCCGAGGAGTAGCCACTAAAACCACY
105893 P G A ATGACGTGGCAGACGGTAGCCACTAAAACCACY
105893 T A A CATCGTGGTTTTAGTGGCTACTGAGCTGTGGACATATGTACCTTGGTACACTCAGTTGAGACG
105893 T G A CATCGTGGTTTTAGTGGCTACCGAGCTGTGGACATATGTACGTTGGTACACTCAGTTGAGACG
105893 IS [AG] AAAGCTGATGATTAAAACACGTCTCAACTGAGTGTACCAACGTACATATGTCCACAGCT[AG]GTAGCCACTAAAACCACGATGCAGAGCAGCAAAGAAGTACCTTAA AACAGAGAGAAGCA
105896 I S CACAGCACAGTATGCTCTCTAGGTTTTGATACGAACTTTAGTTTTAAACAAT
105896 P C S ATGACGTGGCAGACGGTGCCAAACCTTTCCY
105896 P T S CGCGCCGAGGAGTGCCAAACCTTTCCY
105896 T C S GGAGGGAAAGGTTTGGCACCTTGTTTAAAACTAAAGTTCGTATCAAAACCTAGAGAGCATACTCTGCTGTGCT
105896 T T S GGAGGGAAAGGTTTGGCACTTTGTTTAAAACTAAAGTTCGTATCAAAACCTAGAGAGCATACTCTGCTGTGCT
105896 IS [CT] AAGTGTTTCTGCAATCTATTTTGTGATTTGTGGGGAGGAATGGAGGCGAAAGGTTTGGCAC[CT]TTGTTTAAAACTAAAGTTCGTATCAAAACCTAGAGAGCATACTGTG CTGTGCTTCTGCCA
105899 I A CATAGGTGAAGCTTCACACCATCCAGTCTTTTTAACATTTTCCAT
105899 P G A ATGACGTGGCAGACCAGAGGCTGGAAAAGTY
105899 P A A CGCGCCGAGGAAGAGGGCTGGAAAAGTY
105899 T G A GCAGACTTTTCCAGCCCTCTCTGGAAAATGTTAAAAAGACTGGATGGTGTGAAGCTTCACCTATGGA
105899 T A A GCAGACTTTTCCAGCCCTCTTTGGAAAATGTTAAAAAGACTGGATGGTGTGAAGCTTCACCTATGGA
105899 IS [GA] GCACTAAAAACCCTTCCATAGGTGAAGCTTCACACCATCCAGTCTTTTTAACATTTTCCA[GA]AGAGGGCTGGAAAAGTCTGCTGAATAATTGAGGGGAGGGGAGGGAGG GAATGGGGTGCTGG
105905 I A CCTGCACCTCTCGTGGGCTGAGTCTTTTTAGA

105905 P	C	A	ATGACGTGGCAGACCGTTGATTAATATGAACGCGY		
105905 P	T	A	CGCGCCGAGGTTGTTGATTAATATGAACGCGY		
105905 T	C	A	CCTCCGCGTTCATATTAATCAACGCTAAAAGACTCAGCCCACGAGAGGTGCAGGGT		
105905 T	T	A	CCTCCGCGTTCATATTAATCAACACTAAAAGACTCAGCCCACGAGAGGTGCAGGGT		
105905 IS	[CT]		TCTGACCTGCACAGCCCCAGTGCCGAGACCCTGCACCTCTCGTGGGCTGAGTCTTTTTAG[CT]GTTGATTAATATGAACGCGGAGGTCAGGCAGGGTGGATGGTCTGTGC TTGAAGACCGAGC		
105907 I		A	CGTGTAGGTGGCGGGAAAGTCGATGGCT		
105907 P	A	A	CGCGCCGAGGATACGTCCACCCCTGY		
105907 P	G	A	ATGACGTGGCAGACGTACGTCCACCCCTGY		
105907 T	A	A	GTTTCAGGGGTGGACGTATGCCATCGACTTTCCCGCCACCTACACGAA		
105907 T	G	A	GTTTCAGGGGTGGACGTACGCCATCGACTTTCCCGCCACCTACACGAA		
105907 IS	[AG]		GCCACGCACACAAGAATTCCACTTCTTGTCTTTCGTGTAGGTGGCGGGAAAGTCGATGGC[AG]TACGTCCACCCCTGAAACACCAAGGAAGGGCTCTCAGGCTCTGCGG GGAAGGCATTTGA		
105912 I		S	CTGCCAGTCTGGGGCCTTCGTGTCT		
105912 P	T	S	CGCGCCGAGGATTCACGAACTTGATGAGCY		
105912 P	C	S	ATGACGTGGCGACGTTCACGAACTTGATGAGCY		
105912 T	T	S	GGTTGCTCATCAAGTTCGTGAACGACACGAAGGCCCCAGACTGGCAGGG		
105912 T	C	S	GGTTGCTCATCAAGTTCGTGAACGACACGAAGGCCCCAGACTGGCAGGG		
105912 IS	[TC]		TCACAAGTCATTCCAGGCCCTCTCTTTGCTCCTTTGCAGGTTGCTCATCAAGTTCGTGAA[TC]GACACGAAGGCCCCAGACTGGCAGGGCTACTTCTACACCGTGCTGCTG TTTGTCACTGCC		
105916 I		A	AGAGTTCTGCTCAACTCTTTTTTAGAAAAAGAAGCTCAGAA		
105916 P	C	A	ATGACGTGGCAGACCTTACACACATCCACTTTCTY		
105916 P	T	A	CGCGCCGAGGTTTACACACATCCACTTTCTTY		
105916 T	C	A	ATTTAAGAAAGTGGATGTGTGTAAGTCTGAGCTTCTTTTTCTAAAAAAGAGTTGAGCAGAACTCTGA		
105916 T	T	A	ATTTAAGAAAGTGGATGTGTGTAAATCTGAGCTTCTTTTTCTAAAAAAGAGTTGAGCAGAACTCTGA		
105916 IS	[CT]		CTATGTCATAATGATACATCAGAGTTCTGCTCAACTCTTTTTTAGAAAAAGAAGCTCAGA[CT]TTACACACATCCACTTTCTTAAATAAATAATTGTTCAATGAAAGTTA CCCTGGGAAGGATT		
105918 I		A	GGATGTGAGTGTGCAGACCGAGCCCCT		
105918 P	G	A	ATGACGTGGCAGACGGTGGGCATGGGY		
105918 P	A	A	CGCGCCGAGGAGGTGGGCATGGGY		
105918 T	G	A	TGGGCCCATGCCCACCCGGGGCTCGGTCTGCACACTCACATCCAG		
105918 T	A	A	TGGGCCCATGCCCACCTGGGGCTCGGTCTGCACACTCACATCCAG		
105918 IS	[GA]		AGGCAGTGGGCCAGTGGGCAGAGACCCTCAGACTGGATGTGAGTGTGCAGACCGAGCCCC[GA]GGTGGGCATGGGCCCAGGATCCCGAGGCAGACGCCCAGCCTGTGT TTTGTGCGTCCCA		
105919 I		A	AAGCAAACAGAACCCCACCCGGGTAT		
105919 P	G	A	ATGACGTGGCAGACGTCTCTTCCTCCAAGAAACY		
105919 P	A	A	CGCGCCGAGGATCTCTTCCTCCAAGAAACY		
105919 T	G	A	ACAGGTTTCTTGGAGGAACAGACTACCCGGGTCGGGGTTCTGTTTGCTTCA		
105919 T	A	A	ACAGGTTTCTTGGAGGAACAGATTACCCGGGTCGGGGTTCTGTTTGCTTCA		
105919 IS	[GA]		AATGGGTTGACCAGAAGTTGCATCACAGCCTTTGAAGCAAACAGAACCCGCACCCGGGTA[GA]TCTCTTCCTCCAAGAAACCTGTGCCTTGCAAGCAGTTGTTTTTATGA GCTGAGATGGCTT		SLC18A1
105920 I		S	CAACACCGTGGCTGTTGAAGAAAGGTACCTAT		
105920 P	C	S	ATGACGTGGCAGACGTGGAATAGCATGGATGAAY		
105920 P	G	S	CGCGCCGAGGCTGGAATAGCATGGATGAATY		
105920 T	C	S	TGTCATTCATCCATGCTATTCCACTAGGTACGCTTTCTTCAACAGCCACGGTGTTGTT		
105920 T	G	S	TGTCATTCATCCATGCTATTCCAGTAGGTACGCTTTCTTCAACAGCCACGGTGTTGTT		
105920 IS	[CG]		ATGGCTTCAGTGGCTGGCAGGTGGGATGGTGCTGGCAGTGTCATTCATCCATGCTATTCCA[CG]TAGGTACGCTTTCTTCAACAGCCACGGTGTTGTTGTTGAAGAAGGA GAAGATGGTGGAAA		SLC18A1
105922 I		A	CAACCGCTGGGGAGCATCCAGAATGGC		
105922 P	T	A	CGCGCCGAGGTCCGGAGCATGGTGY		
105922 P	G	A	ATGACGTGGCAGACGCCGAGCATGGTY		
105922 T	T	A	CCATCACCATGCTCCGGACCATTCTGGATGCTCCCCAGCGGTTGCT		
105922 T	G	A	CCATCACCATGCTCCGGCCCATTCTGGATGCTCCCCAGCGGTTGCT		
105922 IS	[TG]		GCACCAGCTGCCGGGACGCTCTCCCTCCTTCAGCAACCGCTGGGCAGCATCCAGAATGG[TG]CCGGAGCATGGTGATGGCCGGACTGGGGCAGTCTTCCCCTGCGGGCTC TTAGGGAAGGTC		SLC18A1
105924 I		S	CGACCCATCTTGTTGGCCAACACACCAAAT		
105924 P	C	S	ATGACGTGGCAGACGAGGTTGGTGCCAATGY		
105924 P	T	S	CGGCCCGAGGAAGGTTGGTGCCAATGY		
105924 T	C	S	ACCTCATTGGCACCAACCTCTTTGGTGTGTTGGCCAACAAGATGGGTCGGT		
105924 T	T	S	ACCTCATTGGCACCAACCTTTTGGTGTGTTGGCCAACAAGATGGGTCGGT		
105924 IS	[CT]		TCCTCCACAGGTCTAGCTTCTTGCCTGCCAGTGTGTCCTACCTCATTGGCACCAACCT[CT]TTTGGTGTGTTGGCCAACAAGATGGGTCGGTATGTAGCCTCGGGATCT GGGACGAACAGT		
105925 I		A	GGCCAACAAGATGGGTCGGTATGTAGCCTCT		
105925 P	G	A	ATGACGTGGCAGACGGGATCTGGGACGAAY		
105925 P	A	A	CGCGCCGAGGAGGATCTGGGACGAACY		
105925 T	G	A	TACTGTTCGTCCCAGATCCTGAGGCTACATACCGACCCATCTTGTTGGCCAA		
105925 T	A	A	TACTGTTCGTCCCAGATCCTGAGGCTACATACCGACCCATCTTGTTGGCCAA		
105925 IS	[GA]		CCTCATTGGCACCAACCTCTTTGGTGTGTTGGCCAACAAGATGGGTCGGTATGTAGCCTC[GA]GGATCTGGGACGAACAGTAGAAATGTAAGATGGAAGAGCGCCCGTT CCTGATCTTGGAAT		
105927 I		S	AGGACTGGGTGGTAAAAGTTGGCAAGTATTTGGGAAT		
105927 P	C	S	ATGACGTGGCAGACGGTCAAGTTTAGTTTAATCATTCGY		
105927 P	T	S	CGCGCCGAGGAGTCAAGTTTAGTTTAATCATTCGY		
105927 T	C	S	TAGTCGAATGATTAAACTAAACTTGACTTCCCAAATACTTGCCAACTTTTACCACCCAGTCCTTG		
105927 T	T	S	TAGTCGAATGATTAAACTAAACTTGACTTTCCCAAATACTTGCCAACTTTTACCACCCAGTCCTTG		
105927 IS	[CT]		GCTATTTCTAATTCCCTTTAGGTGCTTTTGTTTTAGTCGAATGATTAAACTAAACTTGAC[CT]TTCCCAAATACTTGCCAACTTTTACCACCCAGTCCTTGTTATTTTTAA TGTTGCAGAACA		
105931 I		A	CGAACCCGCCGCGGGACCT		
105931 P	G	A	WTGACGTGGCAGACGGGGCTCCGGAAAY		
105931 P	C	A	CGCGCCGAGGCGGGCTCCGGAAAY		
105931 T	G	A	GAAGTTTCCGGAGCCCCGGTCCCGCCGGGGTTCGCG		
105931 T	C	A	GAAGTTTCCGGAGCCCCGGTCCCGCCGGGGTTCGCG		
105931 IS	[GC]		CGCAGCGGCCGCCGACTCCAGGAAACGAGCGCGAGCACAAGCGCGAACCCGCGGCCGGGACC[GC]GGGCTCCGGAAACTTCGCAGACCGCCGCGGAAGCCGAAGCGCCGCGC TGGCTCGCAATC		
105933 I		A	GAAGGCAGGAGATAAGACCAGATAGGTAAGTCTGGAGACA		
105933 P	C	A	ATGACGTGGCAGACCTTGAAAGAAAAGGAGTTTAGGY		
105933 P	T	A	CGCGCCGAGGTTTGAAAGAAAAGGAGTTTAGGY		
105933 T	C	A	AAAACCTAAACTCCTTTTCTTTCAAGGTCTCCAGACTTACCTATCTGGTCTTATCTCCTGCCTTCCT		
105933 T	T	A	AAAACCTAAACTCCTTTTCTTTCAAAGTCTCCAGACTTACCTATCTGGTCTTATCTCCTGCCTTCCT		
105933 IS	[CT]		CTGCAAAAGAGCTTAGAACAGGAAGGCAGGAAGATAAGACCAGATAGGTAAGTCTGGAGACC[CT]TTGAAAGAAAAGGAGTTTAGGTTTACCTATACAACGATGAGGAAC CACAAACCATTTTA		
105935 I		S	TTTTCTCTGTTGCCAGGTACTTTATTACCAAGGTTGCCATCT		
105935 P	C	S	ATGACGTGGCAGACGGAACCAGGAATGACATTAY		
105935 P	T	S	CGCGCCGAGGAGAACCAGGAATGACATTACT		
105935 T	C	S	GTGAGTAATGTCATTCCTGGTTCCGATGGCAACCTTGGTAATAAAGTACCTGGCAACAGAGAAAAAG		



105935 T T S GTGAGTAATGTCATTCCTGGTTCTGATGGCAACCTTGGTAATAAAGTACCTGGCAACAGAGAAAAAG
105935 IS [CT] CCCAGCATCTTTCAAACAATTTTCTCAATTCTGATAGTGAGTAATGTCATTCCTGGTTC[CT]GATGGCAACCTTGGTAATAAAGTACCTGGCAACAGAGAAAAAGCAAT AAAAGCTCCATAT
105936 I A AGAACAGAATTGGGAATATGTTTATGTTAAAATACATAGATGGAGAAAGAGTAAAT
105936 P G A ATGACGTGGCAGACGCATTTTCTTCCTAATACAGCY
105936 P A A CGCGCCCGAGGACATTTCTTCCTAATACAGCAY
105936 T G A TCATTGCTGTATTAGGAAGAAAATGCTTTACTCTTCTCCATCTATGTATTTTAACATAAACATATTCCCAATTCTGTTCTTA
105936 T A A TCATTGCTGTATTAGGAAGAAAATGTTTTACTCTTCTCCATCTATGTATTTTAACATAAACATATTCCCAATTCTGTTCTTA
105936 IS [GA] TGCTAAGAACAGAATTGGGAATATGTTTATGTTAAAATACATAGATGGAGAAAGAGTAAA[GA]CATTTTCTTCCTAATACAGCAATGAACTGCTAACAGTTTAGTAAC ACAGAAGACTTTTGT
105939 I A ACTCAGAGGAACCCTAAGAGTCTGAAAATAAAGACAGTTTAATT
105939 P A A CGCGCCGAGGATAAGCATTAATTAAAACATACACACY
105939 P G A ATGACGTGGCAGACGTAAGCATTAATTAAAACATACACACY
105939 T A A TTGTGTGTGTATGTTTTAATTAATGCTTATATTAAACTGTCTTTATTTTCAGACTCTTAGGGTTCCTCTCAGTTT
105939 T G A TTGTGTGTGTATGTTTTAATTAATGCTTACATTAAACTGTCTTTATTTTCAGACTCTTAGGGTTCCTCTCAGTTT
105939 IS [AG] GGGCAGGAATACTTCAAACTGACAGGAACCCTAAGAGTCTGAAAATAAAGACAGTTTAATJAG]TAAGCATTAATTAAAACATACACACACAATTTTAATTAAGAAAAA CTACAGCAGAGAAAA
105940 I A CCCTTCATCCCAATCAGCTTGGATCCACAGGAT
105940 P A A CGCGCCGAGGAAGTCTTCCCTGGGAACY
105940 P G A ATGACGTGGCAGACGAGTCTTCCCTGGGAAT
105940 T A A CTCTGTTCCCAGGGAAGACTTTCCTGTGGATCCAAGCTGATTGGGATGAAGGGGC
105940 T G A CTCTGTTCCCAGGGAAGACTCTCCTGTGGATCCAAGCTGATTGGGATGAAGGGGC
105940 IS [AG] TTCTTACCTCAGTGAAGGGTCCTCGGCCCCTTCATCCCAATCAGCTTGGATCCACAGGA[AG]AGTCTTCCCTGGGAACAGAGGAGCAGAGAGCACTTTATAGGTAGTCCT GTTGCAGCTGGGA
105945 I A GCCAAACATTCTTAACATTCAATAAAGATAATAGAAATAAAAACTTTAGCTCCATTAGAT
105945 P A A CGCGCCGAGGATTCCAGTCTAACGATCTGY
105945 P G A ATGACGTGGCAGACGTTCCAGTCTAACGATCTGY
105945 T A A TCAGCAGATCGTTAGACTGGAATTCTAATGGAGCTAAAAGTTTTTATTCTATTATCTTTATTGAATGTTAAGAATTGTTTGGCT
105945 T G A TCAGCAGATCGTTAGACTGGAACTCTAATGGAGCTAAAAGTTTTTATTCTATTATCTTTATTGAATGTTAAGAATTGTTTGGCT
105945 IS [AG] AGCCAAACATTCTTAACATTCAATAAAGATAATAGAATAAAAACTTTAGCTCCATTAGA[AG]TTCCAGTCTAACGATCTGCTGAATCAACATACAAATAAATTAGGT AAATGAAAGACTAT
105947 I S CTGTTTCAGATCTAGCTCTTCTGTTATCCCCCAA
105947 P G S ATGACGTGGCAGACCTTTATTCCCCTTAGATACTGACY
105947 P A S CGCGCCGAGGTTTTATTCCCCTTAGATACTGACY
105947 T G S CATGGTCAGTATCTAAGGGCAATAAAGTGGGGGATAACAGAAGAGCTAGATCTGAAACAGAA
105947 T A S CATGGTCAGTATCTAAGGGCAATAAAATGGGGGATAACAGAAGAGCTAGATCTGAAACAGAA
105947 IS [GA] GTAGATGTAACAAATTTGTAAGCAGATAGAATCCCATGGTCAGTATCTAAGGGCAATAAA[GA]TGGGGGATAACAGAAGAGCTAGATCTGAAACAGAAATACAAAATC ATTTATTGTTTGTGA
105966 I A ACTCTTCTGAAGATTTTGATTTTGTGCAGGACCCTGATTAATAGAAATTAGAAGAGT
105966 P A A CGCGCCCAGGACTCCTTTGGGGAGAGY
105966 P G A ATGACGTGGCAGACGCTCCTTTGGGGAGAY
105966 T A A GCCACTCTCCCCAAAAGGAGTCTCTTCTAATTTCTATTAATCAGGGTCCTGCACAAAATCAAAATCTTCAGAAGAGTAA
105966 T G A GCCACTCTCCCCAAAAGGAGCCTCTTCTAATTTCTATTAATCAGGGTCCTGCACAAAATCAAAATCTTCAGAAGAGTAA
105966 IS [AG] TCTTACTCTTCTGAAGATTTTGATTTTGTGCAGGACCCTGATTAATAGAAATTAGAAGAG[AG]CTCCTTTTGGGGAGAGTGGCAGTCCCCACCGACTCAGTCTAGATGAG GTGTGGGTGGGTG
105975 I A GATCACGGTGAACTGCCCGTCATTTTGCTGTAATAAT
105975 P G A ATGACGTGGCAGACGACATAGAGGGCATTGGY
105975 P A A CGCGCCGAGGAACATAGAGGGCATTGGY
105975 T G A GATCCCAATGGCCTCTATGTCTTATTACAGCAAAATGACGGGCAGTTCACCGTGATCCA
105975 T A A GATCCCAATGCCCTCTATGTTTTATTACAGCAAAATGACGGGCAGTTCACCGTGATCCA
105975 IS [GA] GCCCCTGAGCATACCCACAAGCTGGATCACGGTGAACTGCCCGTCATTTTGCTGTAATAA[GA]ACATAGAGGGCATTGGGATCAAGACGGGCTTCAATGGTTAAGCAGA GGGAGAGATGTTGT
105979 I S CGGCTCCTCTCTTTTAAAGGTATGAGCGACTGGAT
105979 P C S ATGACGTGGCAGACGGACCAGCTGCATGAY
105979 P T S CGCGCCGAGGAGACCAGCTGCATGAY
105979 T C S CAGGTCATGCAGCTGGTCCTCCAGTCGCTCATACCTTTAAAAGAGAGGAGCCCGAT
105979 T T S CAGGTCATGCAGCTGGTCTTCCAGTCGCTCATACCTTTAAAAGAGAGGAGCCCGAT
105979 IS [CT] CTCCTGCTTCAGGTTGGCTGTCTCATGCTGATGCAGGTCCGTCAGGTCATGCAGCTGGTC[CT]TCCAGTCGCTCATACCTTTAAAAGAGAGGAGCCGATTCCCAGTGTGAC CTTTCACAGCAC
105981 I S GGGTGATTCAAGTAACCACACTAGTGCAGGTAGAGTGATTAT
105981 P G S ATGACGTGGCAGACCCACAGTCCCTGGTATAY
105981 P T S CGCGCCCAGGACACAGTCCCTGGTATAY
105981 T G S TACAGTATACCAGGGACTGTGGTAATCACTCTACCTGCACTAGTGTGGTTACTTGAATCACCCTT
105981 T T S TACAGTATACCAGGGACTGTGTTAATCACTCTACCTGCACTAGTGTGGTTACTTGAATCACCCTT
105981 IS [GT] CTGTGCTATGTCTATAATCACAATAGTAATAGCTATATTTACAGTATACCAGGGACTGTG[GT]TAATCACTCTACCTGCACTAGTGTGGTTACTTGAATCACCCTTGTAA TAATCCCATGAGT
105991 I A CCGTGTTCTCCTCTCTGAGTCCCTCCCCT
105991 P C A CGCGCCGAGGCCTCTCCGCATTCAGCY
105991 P G A ATGACGTGGCAGACGTCTCCGCATTCAGCY
105991 T C A AGAGGCTGAATGCGGAGACGGGGAGGGACTCAGAGAGGCAGAACACGGAC
105991 T G A AGAGGCTGAATGCGGAGACGGGGAGGGACTCAGAGAGGCAGAACACGGAC
105991 IS [CG] GAGGCCTGACTATGGTGACCAGGAGCGTGGTCCGTGTTCTCCTCTCTCAGTCCCTCCCC[CG]?CTCCGCATTCAGCCTCTGGCCACACTGCCTGGAGGCTGCTCCCGCTCC CCACATCTGCC
105992 I S GACCAAGCCCTGCACAGTCCCCAT
105992 P T S CGCGCCGAGGAGAGGGGTTCCCTTACY
105992 P C S ATGACGTGGCAGACGGAGGGGTTCCCTTACY
105992 T T S ACAGGTAAGGGAAACCCCTCTTGGGCACTGTGCAGGGCTTGGTCCA
105992 T C S ACAGGTAAGGGAAACCCCTCCTGGGCACTGTGCAGGGCTTGGTCCA
105992 IS [TC] TTGAGTGTGTGGAGTGTCCTGATGGGGAGTATAGTGATGACAGGTAAGGGAACCCCTC[TC]TGGGCACTGTGCAGGGCTTGGTCCACTTCGGAGGCCTGGGGTCAGT GAAGCCCATGGAAG
105993 I S ATGTGTAATAAGTATTGTTATCTTTTATGGTATTAAAAGAACATCTAACATTCTTTTTCTT
105993 P C S ATGACGTGGCAGACGTTCCACCTCCATGCY
105993 P T S CGCGCCGAGGATTCCACCTCCATGCCY
105993 T C S GTTGGGCATGGAGGTGGAACAGAAAAAGAATGTTAGATGTTCTTTTAATACCATAAAAGATAACAATACCTATTACACAT
105993 T T S GTTGGGCATGGAGGTGGAATAGAAAAAGAATGTTAGATGTTCTTTTAATACCATAAAAGATAACAATACCTATTACACAT
105993 IS [CT] AGTTTCTCATTTAACAAAGGTATATTCTGAAGCATCACAAAATGTTGGGCATGGAGGTGGAA[CT]AGAAAAAGAATGTTAGATGTTCTTTTAATACCATAAAAGATAACA ATACCTATTACACAT
105995 I A GGCTTACTTACATATAAGCTTCAGTGTGCTGTGTCACAAATTTCTTTGTAA

FIGURE 129C

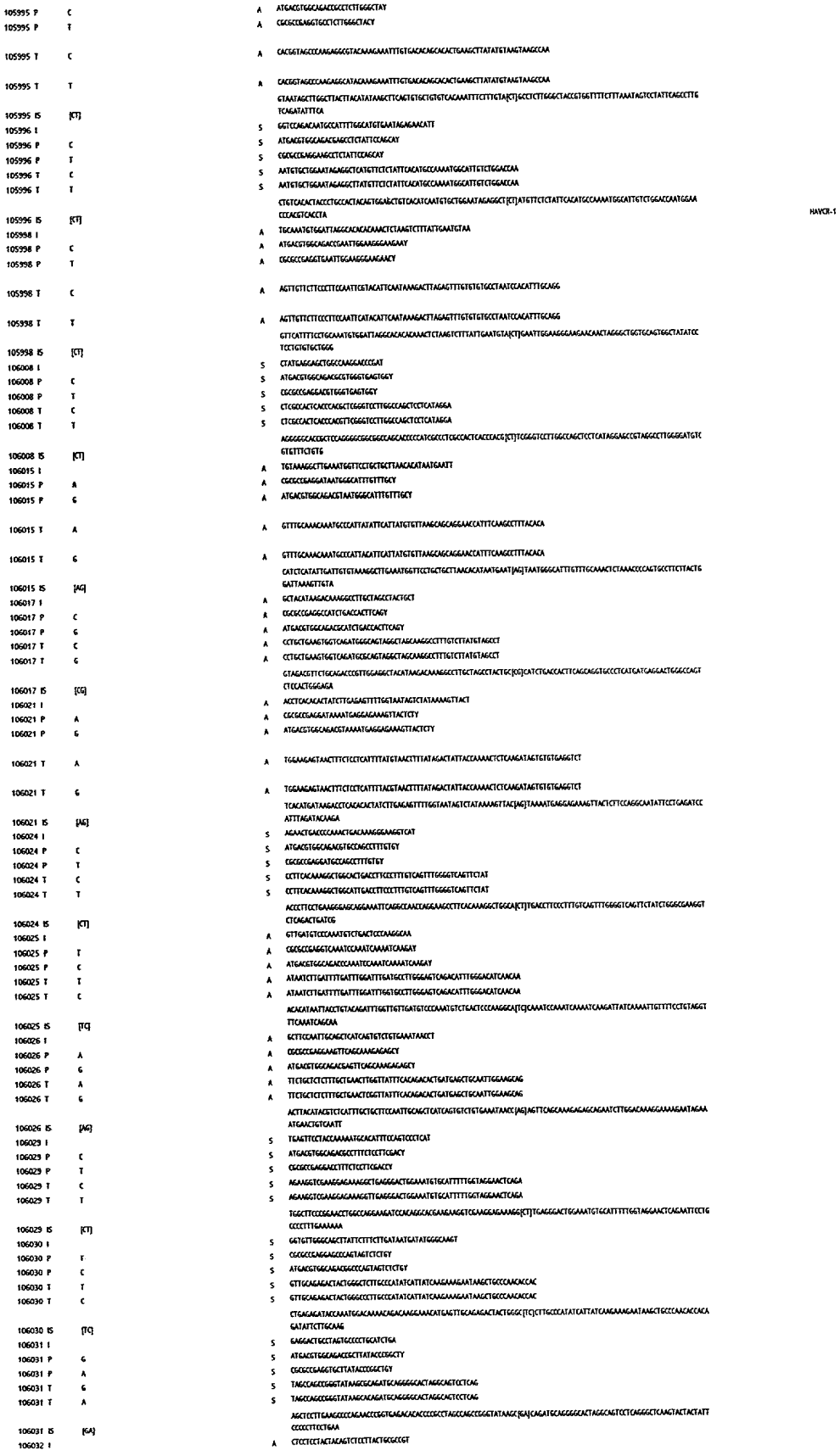

105995 P C A ATGACGTGGCAGACGCCTCTTGGGCTAY
105995 P T A CGCGCCGAGGTGCCTCTTGGGCTACY
105995 T C A CACGGTAGCCCAAGAGGCGTACAAAGAAATTTGTGACACAGCACACTGAAGCTTATATGTAAGTAAGCCAA
105995 T T A CACGGTAGCCCAAGAGGCATACAAAGAAATTTGTGACACAGCACACTGAAGCTTATATGTAAGTAAGCCAA
105995 IS [CT] GTAATAGCTTGGCTTACTTACATATAAGCTTCAGTGTGCTGTGTCACAAATTTCTTTGTA[CT]GCCTCTTGGGCTACCGTGGTTTTCTTTAAATAGTCCTATTCAGCCTTG TCAGATATTTCA
105996 I S GGTCCAGACAATGCCATTTTGGCATGTGAATAGAGAACATT
105996 P C S ATGAGGTGGCAGACGAGCCTCTATTCCAGCAY
105996 P T S CGCGCCGAGGAAGCCTCTATTCCAGCAY
105996 T C S AATGTGCTGGAATAGAGGCTATGTTCTCTATTCACATGCCAAAATGGCATTGTCTGGAACCAA
105996 T T S AATGTGCTGGAATAGAGGCTTATGTTCTCTATTCACATGCCAAAATGGCATTGTCTGGAACCAA
105996 IS [CT] CTGTCACACTACCCTGCCACTACAGTGGABCTGTCACATCAATGTGCTGGAATAGAGGCT[CT]ATGTTCTCTATTCACATGCCAAAATGGCATTGTCTGGACCAATGGAA CCCACGTCACCTA HAVCR-1
105998 I A TGCAAATGTGGATTAGGCACACACAAACTCTAAGTCTTTATTGAATGTAA
105998 P C A ATGACGTGGCAGACCGAATTGGAAGGGAAGAAY
105998 P T A CGCGCCGAGGTGAATTGGAAGGGAAGAACY
105998 T C A AGTTGTTCTTCCCTTCCAATTCGCTACATTCAATAAAGACTTAGAGTTTGTGTGTGCCTAATCCACATTTGCAGG
105998 T T A AGTTGTTCTTCCCTTCCAATTCATACATTCAATAAAGACTTAGAGTTTGTGTGTGCCTAATCCACATTTGCAGG
105998 IS [CT] GTTCATTTTCCTGCAAATGTGGATTAGGCACACACAAACTCTAAGTCTTTATTGAATGTA[CT]GAATTGGAAGGGAAGAACAACTAGGGCTGGTGCAGTGGCTATATCC TCCTGTGTGCTGGG
106008 I S CTATGAGGAGCTGGCCAAGGAYCCGAT
106008 P C S ATGACGTGGCAGACGCGTGGGTGAGTGGY
106008 P T S CGCGCCGAGGACGTGGGTGAGTGGY
106008 T C S CTCGCCACTCACCCAGCTCGGGTCCTTGGCCAGCTCCTCATAGGA
106008 T T S CTCGCCACTCACCCAGGTCGGGTCCTTGGCCAGCTCCTCATAGGA
106008 IS [CT] AGGGGGCACCGCTCCAGGGGCGGCGGCAGCACCCCCATCGCCCTCGCCACTCACCCACG[CT]TCGGGTCCTTGGCCAGCTCCTCATAGGAGCCGTAGGCCTTGGGGATGTC GTGTTTCTGTG
106015 I A TGTAAAGGCTTGAAATGGTTCCTGCTGCTTAACACATAATGAATT
106015 P A A CGCGCCGAGGATAATGGGCATTTGTTTGCY
106015 P G A ATGACGTGGCAGACGTAATGGGCATTTGTTTGCY
106015 T A A GTTTGCAAACAAATGCCCATTATATTCATTATGTGTTAAGCAGCAGGAACCATTTCAAGCCTTTACACA
106015 T G A GTTTGCAAACAAATGCCCATTACATTCATTATGTGTTAAGCAGCAGGAACCATTTCAAGCCTTTACACA
106015 IS [AG] CATCTCATATTGATTGTGTAAAGGCTTGAAATGGTTCCTGCTGCTTAACACATAATGAAT[AG]TAATGGGCATTTGTTTGCAAACTCTAAACCCCAGTGCCTTCTTACTG GATTAAAGTTGTA
106017 I A GCTACATAAGACAAAGGCCTTGCTAGCCTACTGCT
106017 P C A CGCGCCGAGGCCATCTGACCACTTCAGY
106017 P G A ATGACGTGGCAGACGCATCTGACCACTTCAGY
106017 T C A CCTGCTGAAGTGGTCAGATGGGCAGTAGGCTAGCAAGGCCTTTGTCTTATGTAGCCT
106017 T G A CCTGCTGAAGTGGTCAGATGCGCAGTAGGCTAGCAAGGCCTTTGTCTTATGTAGCCT
106017 IS [CG] GTAGACGTTCTGCAGACCCGTTGGAGGCTACATAAGACAAAGGCCTTGCTAGCCTACTGC[CG]CATCTGACCACTTCAGCAGGTGCCCTCATGATCAGGACTGGGCCAGT CTCCACTGGGAGA
106021 I A ACCTCACACACTATCTTGAGAGTTTTGGTAATAGTCTATAAAAGTTACT
106021 P A A CGCGCCGAGGATAAAATGAGGAGAAAGTTACTCTY
106021 P G A ATGACGTGGCAGACGTAAAATGAGGAGAAAGTTACTCTY
106021 T A A TGGAAGAGTAACTTTCTCCTCATTTTATGTAACTTTTATAGACTATTACCAAAACTCTCAAGATAGTGTGTGAGGTCT
106021 T G A TGGAAGAGTAACTTTCTCCTCATTTTACGTAACTTTTATAGACTATTACCAAAACTCTCAAGATAGTGTGTGAGGTCT
106021 IS [AG] TCACATGATAAGACCTCAGACACTATCTTGAGAGTTTTGGTAATAGTCTATAAAAGTTAC[AG]TAAATGAGGAGAAAGTTACTCTTCCAGGCAATATTCCTGAGATCC ATTTAGATACAAGA
106024 I S AGAACTGACCCCAAACTGACAAAGGGAAGGTCAT
106024 P C S ATGACGTGGCAGACGTGCCAGCCTTTGTGY
106024 P T S CGCGCCGAGGATGCCAGCCTTTGTGY
106024 T C S CCTTCACAAAGGCTGGCACTGACCTYCCCTTTGTCAGTTTGGGGTCAGTTCTAT
106024 T T S CCTTCACAAAGGCTGGCAATTGACCTTCCCTTTGTCAGTTTGGGGTCAGTTCTAT
106024 IS [CT] ACCCTTCCTGAAGGGAGCAGGAAATTCAGGCCAACCAGGAAGCCTTCACAAAGGCTGGCA[CT]TGACCTTCCCTTTGTCAGTTTGGGGTCAGTTCTATCTGGGCCAAGGT CTCAGACTGATCG
106025 I A GTTGATGTCCCAAATGTCTGACTCCCAAGGCAA
106025 P T A CGCGCCGAGGTCAAATCCAAATCAAAATCAAGAY
106025 P C A ATGACGTGGCAGACCCAAATCCAAATCAAAATCAAGAY
106025 T T A ATAATCTTGATTTTGATTTGGATTTGATGCCTTGGGAGTCAGACATTTGGGACATCAACAA
106025 T C A ATAATCTTGATTTTGATTTGGATTTGGTGCCTTGGGAGTCAGACATTTGGGACATCAACAA
106025 IS [TC] ACACATAATTACCTGTACAGATTTGGTTGTTGATGTCCCAAATGTCTGACTCCCAAGGCA[TC]CAAATCCAAATCAAAATCAAGATTATCAAAATTGTTTTCCTGTAGGT TTCAAATCAGCAA
106026 I A GCTTCCAATTGCAGCTCATCAGTGTCTGTGAAATAACCT
106026 P A A CGCGCCGAGGAAGTTCAGCAAAGAGAGCY
106026 P G A ATGACGTGGCAGACGAGTTCAGCAAAGAGAGCY
106026 T A A TTCTGCTCTCTTTGCTGAACTGGTTATTTCACAGACACTGATGAGCTGCAATTGGAAGCAG
106026 T G A TTCTGCTCTCTTTGCTGAACTGGGTTATTTCACAGACACTGATGAGCTGCAATTGGAAGCAG
106026 IS [AG] ACTTACATAGTCTCATTTGCTGCTTCCAATTGCAGCTCATCAGTGTCTGTGAAATAACC[AG]AGTTCAGCAAAGAGAGCAGAATCTTGGACAAAGCAAAAGAATAGAA ATGAACTGTCAATT
106029 I S TGAGTTCCTACCAAAAATGCACATTTCCAGTCCCTCAT
106029 P C S ATGACGTGGCAGACGCCTTTCTCCTTCGACY
106029 P T S CGCGCCGAGGAACCTTTCTCCTTCGACY
106029 T C S AGAAGGTCGAAGCAGAAAGCTGAGGGACTGGAAATGTGCATTTTTGGTAGGAACTCAGA
106029 T T S AGAAGGTCGAAGCAGAAAGTTGAGGGACTGGAAATGTGCATTTTTGGTAGGAACTCAGA
106029 IS [CT] TGGCTTCCCGGAACCTGGCCAGGAAGATCCCACAGGCACGAAGAAGGTCGAAGGAGAAAGG[CT]TGAGGGACTGGAAATGTGCATTTTTGGTAGGAACTCAGAATTCCTG CCCCTTTGAAAAA
106030 I S GGTGTTGGGCAGCTTATTCTTTCTTGATAATGATATGGGCAAGT
106030 P C S CGCGCCGAGGAGCCCAGTAGTCTCTGY
106030 T T S GTTGCAGAGACTACTGGGCTCTTGCCCATATCATTATCAAGAAAGAATAAGCTGCCCAACACCAC
106030 T C S GTTGCAGAGAACTACTGGGCCCTTGCCCATATCATTATCAAGAAAGAATAAGCTGCCCAACACCAC
106030 IS [TC] CTGAGAGATACCAAATGGACAAAACAGACAAGGAAACATGAGTTGCAGAGACTACTGGGC[TC]CTTGCCCATATCATTATCAAGAAAGAATAAGCTGCCCAACACCACA GATATTCTTGCAAG
106031 I S GAGGACTGCCTAGTGCCCCTGCATCTGA
106031 P G S ATGACGTGGCAGACCGCTTATACCCGCTY
106031 P A S CGCGCCGAGGTGCTTATACCCGCTGY
106031 T G S TAGCCAGCCGGGTATAAGCGCAGATGCAGGGGCACTAGGCAGTCCTCAG
106031 T A S TAGCCAGCCGGGTATAAGCACAGATGCAGGGGCACTAGGCAGTCCTCAG
106031 IS [GA] AGCTCCTTGAAGCCCCAGAACCCGGTGAGACACACCCCGCCTAGCCAGCCCGGTATAAGC[GA]CAGATGCAGGGGCACTAGGCAGTCCTCAGGGCTCAAGTACTACTATT CCCCCTTCCTGAA
106032 I A CTCCTCCTACTACAGTCTCCTTACTGCGCCGT

FIGURE 129C

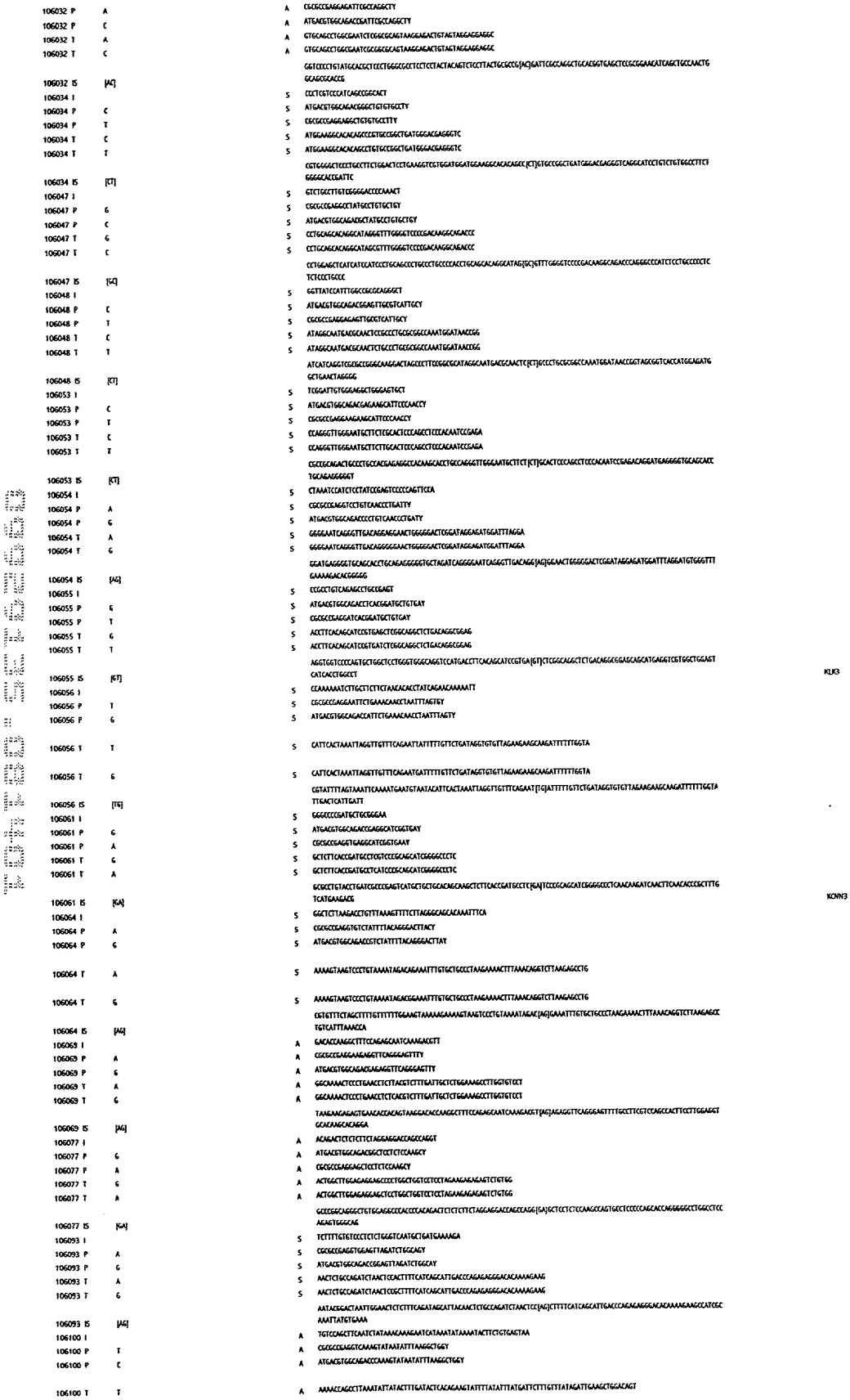
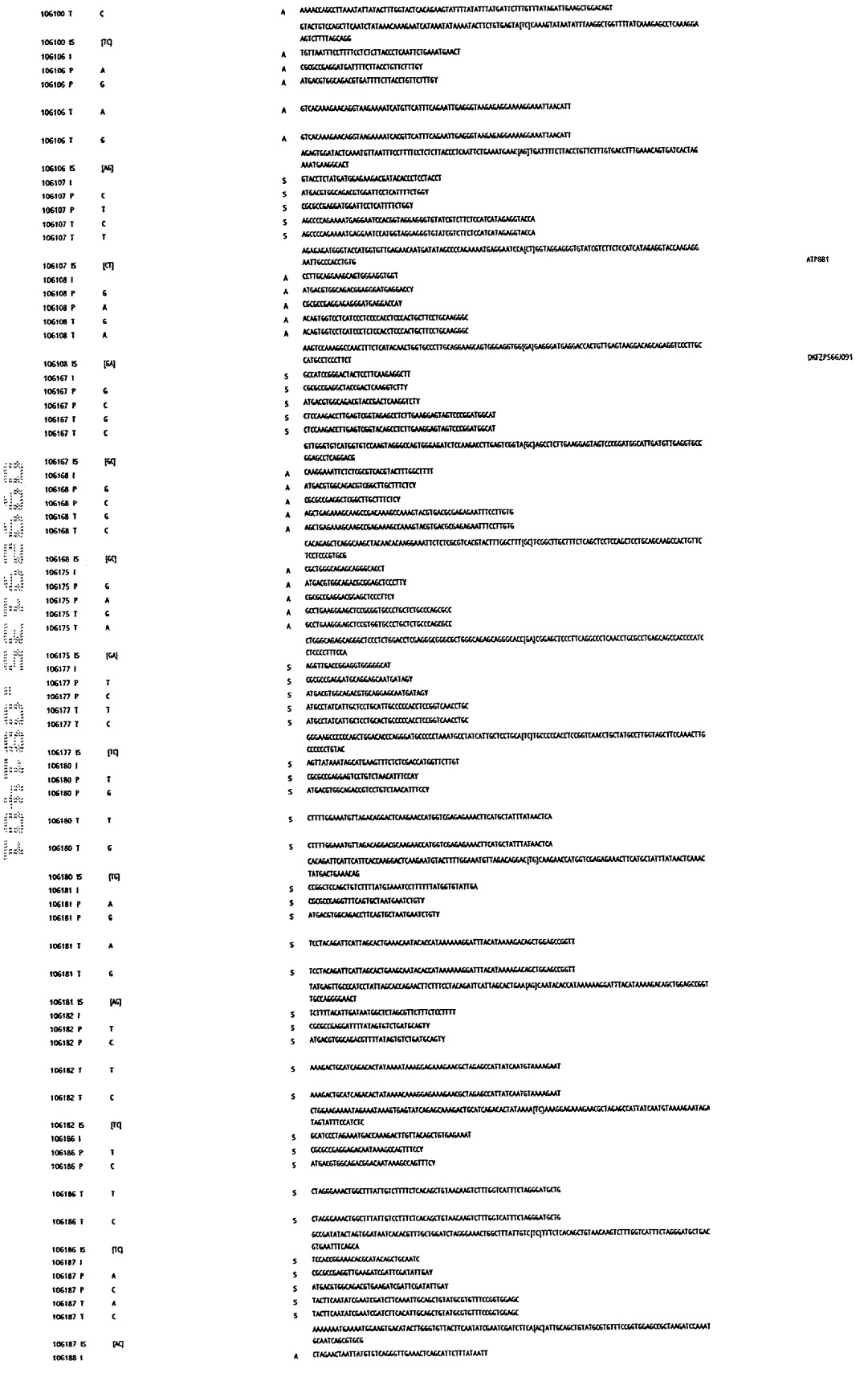
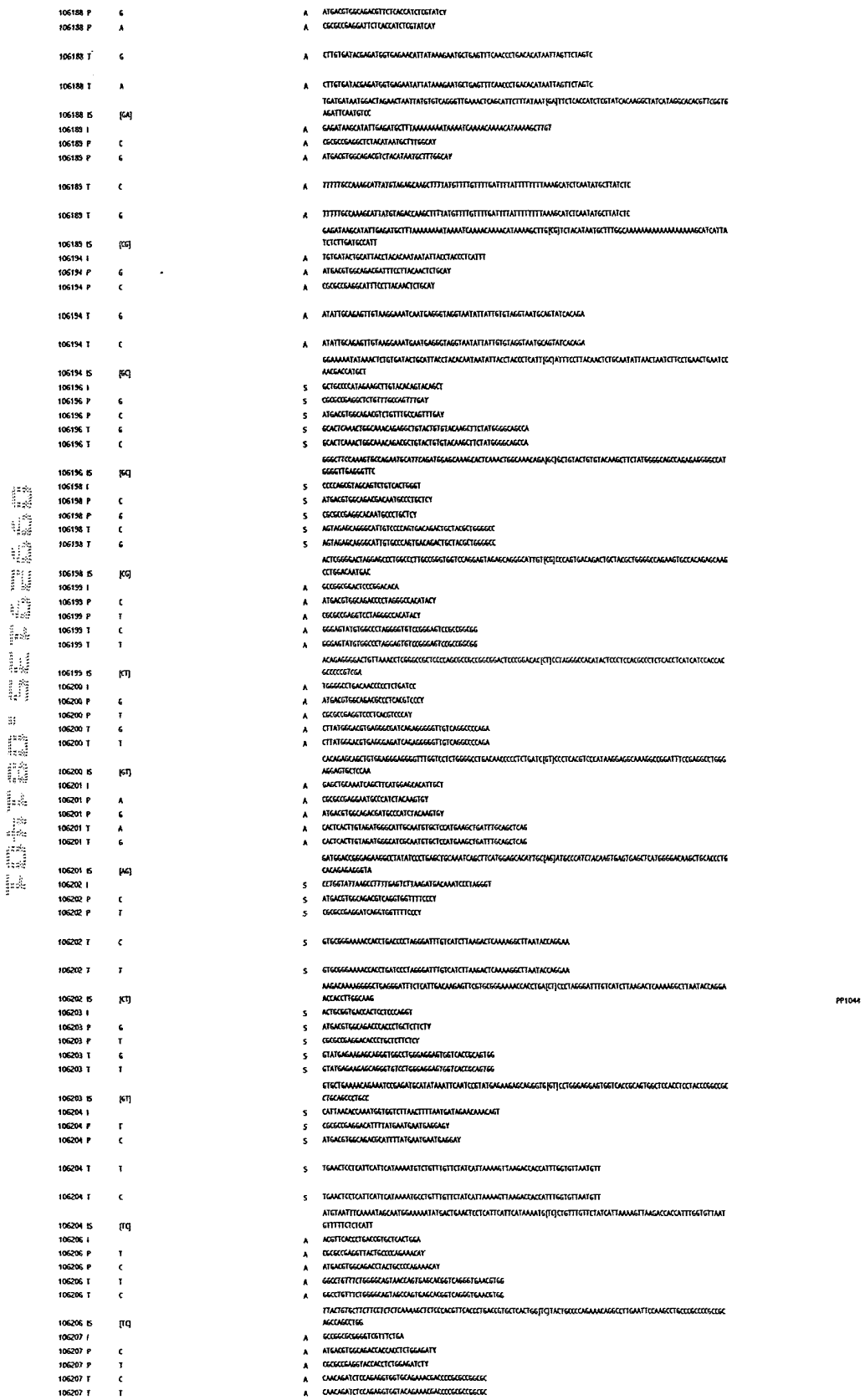
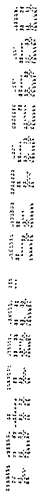

106032 P A
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106034 I
106034 P C
106034 P T
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106034 T T
106034 IS [CT]
106047 I
106047 P G
106047 P C
106047 T G
106047 T C
106047 IS [GC]
106048 I
106048 P C
106048 P T
106048 T C
106048 T T
106048 IS [CT]
106053 I
106053 P C
106053 P T
106053 T C
106053 T T
106053 IS [CT]
106054 I
106054 P A
106054 P G
106054 T A
106054 T G
106054 IS [AG]
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106055 P G
106055 P T
106055 T G
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106055 IS [GT]
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106056 P T
106056 P G
106056 T T
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106056 IS [TG]
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106061 P G
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106064 P A
106064 P G
106064 T A
106064 T G
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106069 P A
106069 P G
106069 T A
106069 T G
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106077 I
106077 P G
106077 P A
106077 T G
106077 T A
106077 IS [GA]
106093 I
106093 P A
106093 P G
106093 T A
106093 T G
106093 IS [AG]
106100 I
106100 P T
106100 P C
106100 T T
KLK3
KCNN3

FIGURE 129C




106188 P G A ATGACGTGGCAGACGTTCTCACCATCTCGTATCY
106188 P A A CGCGCCGAGGATTCTCACCATCTCGTATCAY
106188 T G A CTTGTGATACGAGATGGTGAGAACATTATAAAGAATGCTGAGTTTCAACCCTGACACATAATTAGTTCTAGTC
106188 T A A CTTGTGATACGAGATGGTGAGAATATTATAAAGAATGCTGAGTTTCAACCCTGACACATAATTAGTTCTAGTC
106188 IS [GA] TGATGATAATGGACTAGAACTAATTATGTGTCAGGGTTGAAACTCAGCATTCCTTTATAATTGAJTTCTCACCATCTCGTATCAGAAGGCTATCATAGGCACACGTTCGGTG AGATTCAATGTCC
106189 I A GAGATAAGCATATTGAGATGCTTTAAAAAAAATAAAATCAAAACAAAACATAAAAGCTTGT
106189 P C A CGCGCCGAGGCTCTACATAATGCTTTGGCAY
106189 P G A ATGACGTGGCAGACGTCTACATAATGCTTTGGCAY
106185 T C A TTTTTGCCAAAGCATTATGTAAGAGCAAGCTTTJATGTTTGTTTTGATTTTATTTTTTTTAAAGCATCTCAATATGCTTATCTC
106183 T G A TTTTTGCCAAAGCATTATGTAGACCAAGCTTTJATGTTTTGTTTTGATTTTATTTTTTTTAAAGCATCTCAATATGCTTATCTC
106183 IS [CG] GAGATAAGCATATTGAGATGCTTTAAAAAAAATAAAATCAAAACAAAACATAAAAGCTTG[CG]TCTACATAATGCTTTGGCAAAAAAAAAAAAAAAAAAAAGCATCATTA TCTCTTGATGCCATT
106194 I A TGTGATACTGCATTACCTACACAATAATATTACCTACCCTCATTT
106194 P G A ATGACGTGGCAGACGATTTCCTTACAACTCTGCAY
106194 P C A CGCGCCGAGGCATTTCCTTACAACTCTGCAY
106194 T G A ATATTGCAGAGTTGTAAGGAAATCAATGAGGGTAGGTAATATTATTGTGTAGGTAATGCAGTATCACAGA
106194 T C A ATATTGCAGAGTTGTAAGGAAATGAATGAGGGTAGGTAATATTATTGTGTAGGTAATGCAGTATCACAGA
106194 IS [GC] GGAAAAATATAAACTCTGTGATACTGCATTACCTACACAATAATATTACCTACCCTCATT[GC]ATTTCCTTACAACTCTGCAATATTAACTAATCTTCCTGAACTGAATCC AACGACCATGCT
106196 I S GCTGCCCCATAGAAGCTTGTACACAGTACAGCT
106196 P G S CGCGCCGAGGCTCTGTTTGCCAGTTTGAY
106196 P C S ATGACGTGGCAGACGTCTGTTTGCCAGTTTGAY
106196 T G S GCACTCAAACTGGCAAACAGAGGCTGTACTGTGTACAAGCTTCTATGGGGCAGCCA
106196 T C S GCACTCAAACTGGCAAACAGAGCTGTACTGTGTACAAGCTTCTATGGGGCAGCCA
106196 IS [GC] GGGCTTCCAAAGTGCAGAATGCATTCAGATGGAGCAAAGCACTCAAACTGGCAAACAGA[GC]GCTGTACTGTGTACAAGCTTCTATGGGGCAGCCAGAGAGGGGCCAT GGGGTTGAGGGTTC
106198 I S CCCCAGCGTAGCAGTCTGTCACTGGGT
106198 P C S ATGACGTGGCAGACGACAATGCCCTGCTCY
106198 P G S CGCGCCGAGGCACAATGCCCTGCTCY
106198 T C S AGTAGAGCAGGGCATTGTCCCCAGTGACAGACTGCTACGCTGGGGCC
106198 T G S AGTAGAGCAGGGCATTGTGCCCAGTGACAGACTGCTACGCTGGGGCC
106198 IS [CG] ACTCGGGGACTAGGAGCCCTGGCCCTTGCCCGGGTGGTCCAGGAGTAGAGCAGGGCATTGT[CG]CCCAGTGACAGACTGCTACGCTGGGGCCAGAAGTGCCACAGAGCAAG CCTGGACAATGAC
106199 I A GCCGGCGGACTCCCGGACACA
106199 P C A ATGACGTGGCAGACCCCTAGGGCCACATACY
106199 P T A CGGGCCGAGGTCCTAGGGCCACATACY
106199 T C A GGGAGTATGTGGCCCTAGGGGTGTCCGGGAGTCCGCCGGGG
106199 T T A GGGAGTATGTGGCCCTAGGAGTGTCCGGGAGTCCGCCGGGG
106199 IS [CT] ACAGAGGGGACTGTTAAACCTCGGGCCGCTCCCCAGCCCCCCCGGGGACTCCCGGACAC[CT]CCTAGGGCCACATACTCCCTCCACGCCCTCTCACCTCATCATCCACCAC GCCCCCGTCGA
106200 I A TGGGGCCTGACAACCCCCTCTGATCC
106200 P G A ATGACGTGGCAGACGCCCTCACGTCCCY
106200 P T A CGCGCCGAGGTCCCTCACGTCCCAY
106200 T G A CTTATGGGACGTGAGGGCCATCAGAGGGGGTTGTCAGGCCCCAGA
106200 T T A CTTATGGGACGTGAGGGAGATCAGAGGGGGTTGTCAGGCCCCAGA
106200 IS [GT] CACAGAGCAGCTGTGAGAGGAGGGGTTTGGTCCTCTGGGGCCTGACAACCCCCTCTGATC[GT]CCCTCACGTCCCATAAGGAGGCCAAAGGCCGGATTTCCGAGGCCTGGG AGGAGTGCTCCAA
106201 I A GAGCTGCAAATCAGCTTCATGGAGCACATTGCT
106201 P A A CGCGCCGAGGAATGCCCATCTACAAGTGY
106201 P G A ATGACGTGGCAGACGATGCCCATCTACAAGTGY
106201 T A A CACTCACTTGTAGATGGGCATTGCAATGTGCTCCATGAAGCTGATTTGCAGCTCAG
106201 T G A CACTCACTTGTAGATGGGCATGCAATGTGCTCCATGAAGCTGATTTGCAGCTCAG
106201 IS [AC] GATGGACCGGGAGAAGGCTATATCCTGAGCTGCAAATCAGCTTCATGGAGCACATTGC[AG]ATGCCCATCTACAAGTGAGTGAGCTCATGGGGACAAGCTGCACCCTG CACAGAGAGGGTA
106202 I S CCTGGTATTAAGCCTTTTGAGTCTTAAGATGACAAATCCCTAGGGT
106202 P C S ATGACGTGGCAGACGTCAGGTGGTTTTCCCY
106202 P T S CGCGCCGAGGATCAGGTGGTTTTCCCY
106202 T C S GTGCGGGAAAACCACCTGACCCCTAGGGATTTGTCATCTTAAGACTCAAAAGGCTTAATACCAGGAA
106202 T T S GTGGGGGAAAACCACCTGATCCCTAGGGATTTGTCATCTTAAGACTCAAAAGGCTTAATACCAGGAA
106202 IS [CT] AAGACAAAAGGGGCTGAGGGATTTCTCATTGACAAGAGTTCGTGCGGGAAAACCACCTGA[CT]CCCTAGGGATTTGTCATCTTAAGACTCAAAAGGCTTAATACCAGGA ACCACCTTGGCAAG
106203 I S ACTGCGGTGACCACTCCTCCCAGGT
106203 P G S ATGACGTGGCAGACCCACCTGCTCTTCTY
106203 P T S CGCGCCGAGGCACACCCTGCTCTTCTCY
106203 T G S GTATGAGAAGAGCAGGGTGGCCTGGGAGGAGTGGTCACCGCAGTGG
106203 T T S GTATGAGAAGAGCAGGGTGTCCTGGGAGGAGTGGTCACCGCAGTGG
106203 IS [GT] GTGCTGAAAACAGAAATCCGAGATGCATATAAATTCAATCCCTATGAGAAGAGCAGGGTG[GT]CCTGGGAGGAGTGGTCACCGCAGTGGCTCCACCTCCTACCGGCCGC CTGCAGCCCTGCC
106204 I S CATTAACACCAAATGGTGGTCTTAACTTTTAATGATAGAACAAACAGT
106204 P T S CGCGCCGAGGACATTTTATGAATGAATGAGGAGY
106204 P C S ATGACGTGGCAGACGCATTTTATGAATGAATGAGGAY
106204 T T S TGAACTCCTCATTCATTCATAAAATGTCTGTTTGTTCTATCATTAAAAGTTAAGACCACCATTTGGTGTTAATGTT
106204 T C S TGAACTCCTCATTCATTCATAAAATGCCTGTTTGTTCTATCATTAAAACTTAAGACCACCATTTGGTGTTAATGTT
106204 IS [TC] ATGTAATTTCAAAATAGCAATGGAAAAATATGACTGAACTCCTCATTCATTCATAAAATG[TC]CTGTTTGTTCTATCATTAAAAGTTAAGACCACCATTTGGTGTTAAT GTTTTTCTCTCATT
106206 I A ACGTTCACCCTGACCGTGCTCACTGGA
106206 P T A CGCGCCGAGGTTACTGCCCCAGAAACAY
106206 P C A ATGACGTGGCAGACCTACTGCCCCAGAAACAY
106206 T T A GGGCTGTTTCTGGGGCAGTAACCAGTGAGCACGGTCAGGGTGAACGTGG
106206 T C A GGCCTGTTTCTGGGGCAGTAGCCAGTGAGCACGGTCAGGGTGAACGTGG
106206 IS [TC] TTACTGTGCTTCTTCCTCTCAAAACCTCTCCCACGTTCACCCTGACCGTGCTCACTGG[TC]TACTGCCCAGAAACAGGCCTTGAATTCCAAGCCTGCCGCCCCCGCCGC AGCCAGCCTGG
106207 I A GCCGGCGCGGGGTCGTTTCTGA
106207 P C A ATGACGTGGCAGACCACCACCTCTGGAGATY
106207 P T A CGCGCCGAGGTACCACCTCTGGAGATCTY
106207 T C A CAACAGATCTCCAGAGGTGGTGCAGAAACGACCCCGCGCCGCGCC
106207 T T A CAACAGATCTCCAGAGGTGGTACAGAAACGACCCCGCGCCGCGC

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106207	IS	[CT]		AGGGAGGGACNGAG	
106209	I		S	CAAGACATTTTTGCTATCATAGCAAACTGCAGACTAACATTTTAAATAT	
106209	P	T	S	CGCGCCCAGGAAAATTTAGGTATAAAGGGAAAAAGGY	
106209	P	C	S	ATGACGTGGCAGACGAATTTAGGTATAAAGGGAAAAAGGY	
106209	T	Y	S	TTAGCCTTTTTCCCCTTATACCTAAATTTTATTTAAAATGTTAGTCTGCAGTTTGCTATGATAGCAAAAATGTCTTGAA	
106209	T	C	S	TTAGCCTTTTTCCCCTTATACCTAAATTCTATTTAAAATGTTAGTCTGCAGTTTGCTATGATAGCAAAAATGTCTTGAA	
106209	IS	[TC]		TGTAGTTCGGGATCCATTTAATTTGTATTGCTTTAGCCTTTTTCCCCTTTAFACCTAAATT[TC]TATTTAAAATGTTAGTCTGCAGTTTGCTATGATAGCAAAAATGTCTT GAATTTTTTCTCA	
106213	I		S	CTTGTTCTTACCCAAGCCCACATATTTATTCCCAGAATCCTT	
106213	P	C	S	ATGACGTGGCAGACGGCCTTCATTTCTGTTGTY	
106213	P	T	S	CGCGCCGAGGAGCCTTCATTTCTGTTGTCY	
106213	T	C	S	TAATGACAACAGAAATGAAGGCCAGGATTCTGGGAATAAATATGTGGGCTTGGGTAAGAACAAGGT	
106213	T	T	S	TAATGACAACAGAAATGAAGGCTAGGATTCTGGGAATAAATATGTGGGCTTGGGTAAGAACAAGGT	
106213	IS	[CT]		CCTTATCTTCTTCCCTCTCTTCCTGCCAGCTAAAAAATAATGACAACAGAAATGAAGGC[CT]AGGATTCTGGGAATAAATATGTGGGCTTGGGTAAGAACAAGGTGGA GAAAGATGGTGTCT	
106214	I		S	CAGGATCCTGTCTTTAAAGACTGCTCTGCTCTCCCT	
106214	P	C	S	ATGACGTGGCAGACGCCTCATCCTGTGTCCY	
106214	P	T	S	CGCGCCGAGGACCTCATCCTGTGTCCY	
106214	T	C	S	TATTGGACAGAGGATGAGGCCGGCAGAGACAGAGCAGTCTTTAAAGACAGGATCCTGGC	
106214	T	T	S	TATTGGACAGAGGATGAGGTGGGAGAGCAGAGCAGTCTTTAAAGACAGGATCCTGGC	
106214	IS	[CT]		TTGGAGAGAACAGGGTTAGAAACGCTGTTGGAAGGTGCGGTTATTGGACACAGGATGAGG[CT]GGGAGAGCAGAGCAGTCTTTAAAGACAGGATCCTGGCTTTTCTGT GGGCCTGGATCTTC	
106215	I		A	AGCACTTTGCTTGTAACATTTGCTGATGAGGTTGTAGCTTAT	
106215	P	A	A	CGCGCCGAGGAGTTCTTTGGAGATTCAAAATACT	
106215	P	G	A	ATGACGTGGCAGACGGTTCTTTGGAGATTCAAAATACY	
106215	T	A	A	CCTGGTATTTTGAATCTCCAAAGAACTTAAGCTACAACCTCATCAGCAAATGTTACAAGCAAAGTGCTAT	
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106217	I		A	AGTCCAGCTTAGAAATGGAGCAGCAAAGGTGTGTGA	
106217	P	C	A	ATGACGTGGCAGACCATGTCTTATGAGCCTTGTY	
106217	P	T	A	CGCGCCGAGGTATGTCTTATGAGCCTTGTTTTY	
106217	T	C	A	AACAAAAACAAGGCTCATAAGACATGCACACACCTTTCGTCGTCCATTTCTAAGCTGGACTCA	
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106228	P	C	A	ATGAGTGGCAGACCCTCTATTCGTATTTCCAAACAY	
106228	P	T	A	CGCGCCGAGGTCTCTATTCGTATTTCCAAACAY	
106228	T	C	A	ACACTGTTTGGAAATACGAATAGAGGAGTGAAAATTGTTGCAGTGGGGTACCCAAAGGCAT	
106228	T	T	A	ACACTGTTTGGAAATACGAATAGAGAAGTGAAAATTGTTGCAGTGGGGTACCCAAAGGCAT	
106228	IS	[CT]		GATGAAAAAAAACTTGAGGTCTCGAATCCCTTTGGGTACCCCACTGCAACAATTTTCACT[CT]CTCTATTCGTATTTCCAAACAGTGTAATTTTGCTGTATCTTTCCAATT CAAAGATAAACA	
106229	I		A	GCCATGCTCTAAGCCTGAGTCTGAGACATTGCAAC	
106229	P	T	A	CGCGCCGAGGTTTGGGGATGGTAAGTACAY	
106229	P	A	A	ATGACGTGGCAGACATTGGGGATGGTAAGTACAY	
106229	T	T	A	ATTCTGTACTTACCATCCCCAAATTGCAATGTCTCAGACTCAGGCTTAGAGCATGGCAT	
106229	T	A	A	ATTCTGTACTTACCATCCCCAATTTGCAATGTCTCAGACTCAGGCTTAGAGCATGGCAT	
106229	IS	[TA]		AACAGGTTCCTGCCTTTGATGTTCATGCCATGCTCTAAGCCTGAGTCTGAGACATTGCAA[TA]TTGGGGATGGTAAGTACAGAATCTATGTGCCTTCTATCAGACACAGA GCTGTGACAGAAT	
106230	I		S	GGTAAATGCACTCTCGGGTCTGGCACGTTCA	
106230	P	G	S	ATGACGTGGCAGACCACCCTCAAATGATACAAATGY	
106230	P	A	S	CGCGCCGAGGTACCCTCAAATGATACAAATGY	
106230	T	G	S	GTCCACATTTGTATCATTTGAGGGTGGAACGTGCCAGACCCGAGAGTGCATTTACCAG	
106230	T	A	S	GTCCACATTTGTATCATTTGAGGGTAGAACGTGCCAGACCCGAGAGTGCATTTACCAG	
106230	IS	[GA]		CTTTCCTAGTTCATTATGGTCTTGTTCGAACTTTTGTCCACATTTGTATCATTTGAGGGT[GA]GAACGTGCCAGACCCGAGAGTGCATTTACCAGCCCTGCCCCACAGAAC CCTGAGTCCAGC	
106238	I		S	AGGGGCCCCGAACCCATTTGGAAATTAGGC	
106238	P	T	S	CGCGCCGAGGAGGATTCCAAATTACAAAGAAATGY	
106238	P	A	S	ATGACGTGGCAGACTGGATTCCAAATTACAAAGAAATY	
106238	T	T	S	TGTGCATTTCTTTGTAATTTGGAATCCTCCTAATTTCCAAATGGGTTCGGGGCCCCTGT	
106238	T	A	S	TGTGCATTTCTTTGTAATTTGGAATCCACCTAATTTCCAAATGGGTTCGGGGCCCCTGT	
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106241	I		S	CGAGGCCTGGCTGGTGGGTCCTT	
106241	P	C	S	ATGACGTGGCAGACGCCAGGGCACTGGY	
106241	P	T	S	CGCGCCGAGGACCAGGGCACTGGY	
106241	T	C	S	AGATCCAGTGCCCTGGCAGGACCCACCAGCCAGGCCTCGTG	
106241	T	T	S	AGATCCAGTGCCCTGGTAGGACCCACCAGCCAGGCCTCGTG	
106241	IS	[CT]		GCCCCGAGCCCAAACCCCGGCACCCAGTGCTTCCTCCACTCTCCAGATCCAGTGCCCTGG[CT]AGGACCCACCAGCCAGGCCTCGTGTGACCTCCAAATGAGGCGTGATCTT GGGGCACAGAC	
106271	I		A	TGGTGGTGTTGGAGCCGCTCCT	
106271	P	A	A	CGCGCCGAGGATTGCTGGGATTGGAGY	
106271	P	G	A	ATGACGTGGCAGACGTTGCTGGGATTGGAGY	
106271	T	A	A	TCACCTCCAATCCCAGCAATGGCAGCGGCTCCAACACCACCACA	
106271	T	G	A	TCACCTCCAATCCCAGCAACGGCAGCGGCTCCAACACCACCACA	
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106273	P	G	A	ATGACGTGGCAGACGACGTGAGGACGCCY	
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106273	T	G	A	CTTGGGCGTCCTCACGTCGGCACAGTCACCAATGGGGTAGACGTTGCT	
106273	T	A	A	CTTGGGCGTCCTCACGTTGGCACAGTCACCAATGGCGTAGACGTTGCT	
106273	IS	[GA]		GTGAACGAGCACCTCCAGGTGCAGGCCCACAGCAACGTCTACGCCATTGGTGACTGTGCC[GA]ACGTGAGGACGCCCAAGATGGCCTATCTTGCCGGCCTCCACGCCAAC ATCGCCGTGGCCA	FLJ14497
106276	I		A	ACTCTGGGAGGTGCAGCCCCAGGA	
106276	P	C	A	ATGAGTGGCAGACCGGTTCAGTGAGGTTCTY	
106276	P	T	A	CGCGCCGAGGTGGTTCAGTGAGGTTCTY	
106276	T	C	A	AACCAGAACCTCACTGAACCGCCTGGGACTGCACCTCCCAGAGTGC	
106276	T	T	A	AACCAGAACCTCACTGAACCACCTGGGGCTGCACCTCCCAGAGTGC	
106276	IS	[CT]		TCCGGCCCTGAGTCTGAAGGCCTCGGGAAGGATCGGCACTCTGGGAGGTGCAGCCCCAGG[CT]GGTTCAGTGAGGTTCTGGTTGTTTCTGTGTCTCTGCTTGCAGGTGCA CTGACGTTCCTGC	
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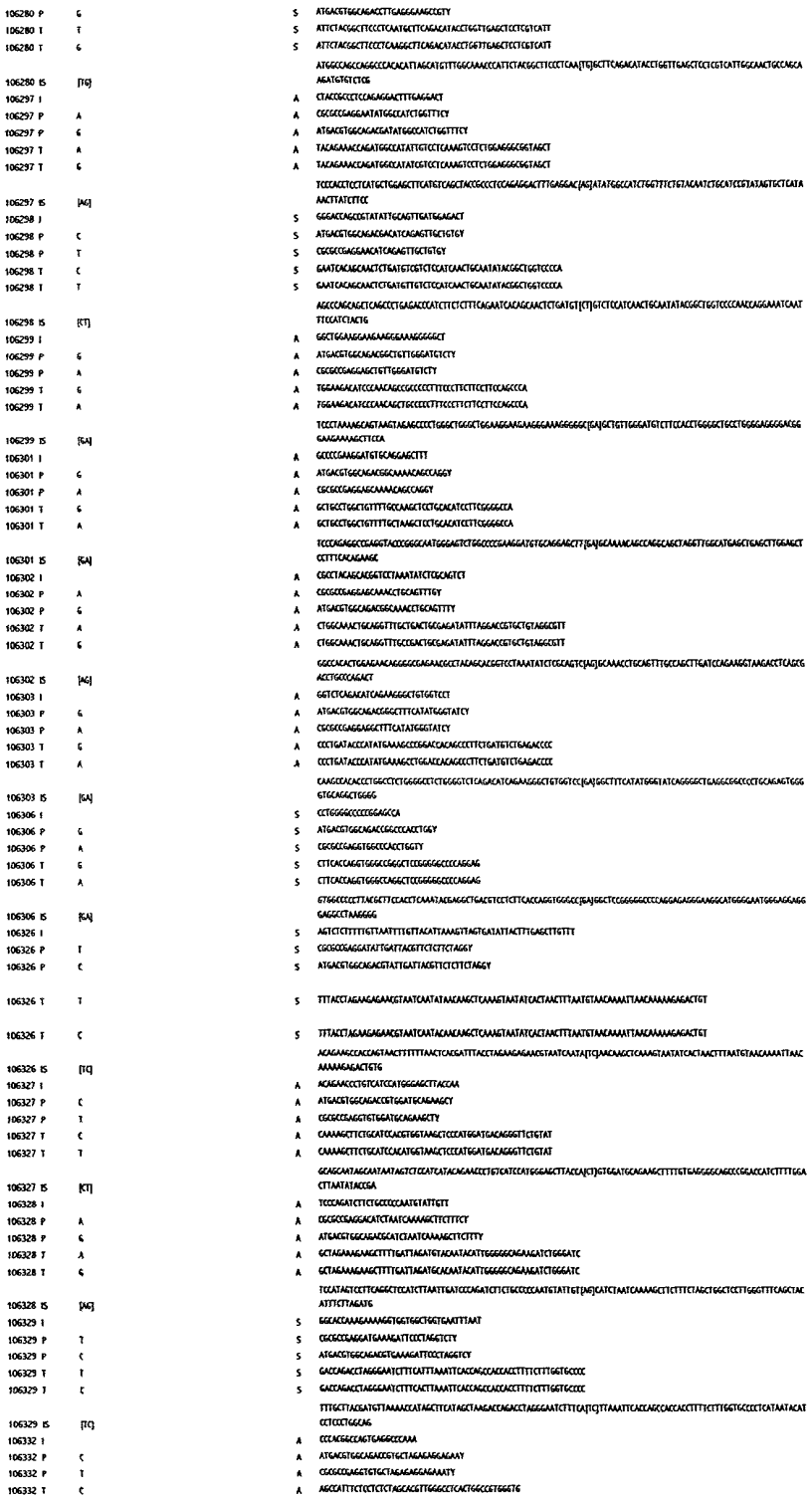

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106280 IS [TG] ATGGCCAGCCAGGCCCACACATTAGCATGTTTGGCAAACCCATTCTACGGCTTCCCTCAA[TG]GCTTCAGACATACCTGGTTGAGCTCCTCGTCATTGGCAACTGCCAGCA AGATGTGTCTCG
106297 I A S CTACTGCCCTCCAGAGGACTTTGAGGACT
106297 P A A CGCGCCGAGGAATATGGCCATCTGGTTTCY
106297 P G A ATGACGTGGCAGACGATATGGCCATCTGGTTTCY
106297 T A A TACAGAAACCAGATGGCCATATTGTCTCAAAGTCCTCTGGAGGGCGGTAGCT
106297 T G A TACAGAAACCAGATGGCCATATCGTCCTCAAAGTCCTCTGGAGGGCGGTAGCT
106297 IS [AG] TCCCACCTCCTCATGCTGGAGCTTCATGTCAGCTACCGCCCTCCAGAGGACTTTGAGGAC[AG]ATATGGCCATCTGGTTTCTGTACAATCTGCATCCGTATAGTGCTCATA AACTTATCTTCC
106298 I S GGGACCAGCCGTATATTGCAGTTGATGGAGACT
106298 P C S ATGACGTGGCAGACGACATCAGAGTTGCTGTGY
106298 P T S CGCGCCGAGGAACATCAGAGTTGCTGTGY
106298 T C S GAATCACAGCAACTCTGATGTGCTCTCCATCAACTGCAATATACGGCTGGTCCCCA
106298 T T S GAATCACAGCAACTCTGATGTTGTCTCCATCAACTGCAATATACGGCTGGTCCCCA
106298 IS [CT] AGCCCAGCAGCTCAGCCCTGAGACCCATCTTCTCTTTCAGAATCACAGCAACTCTGATG[CT]GTCTCCATCAACTGCAATATACGGCTGGTCCCCAACCAGGAAATCAAT TTCCATCTACTG
106299 I A S GGCTGGAAGGAAGAAGGGAAAGGGGGCT
106299 P G A ATGACGTGGCAGACGGCTGTTGGGATGTCTY
106299 P A A CGCGCCGAGGAGCTGTTGGGATGTCTY
106299 T G A TGGAAGACATCCCAACAGCCGCCCCCTTTCCCTTCTTCCTTCCAGCCCA
106299 T A A TGGAAGACATCCCAACAGCTGCCCCCTTTCCCTTCTTCCTTCCAGCCCA
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106301 P G A ATGACGTGGCAGACGGCAAAACAGCCAGGY
106301 P A A CGCGCCGAGGAGCAAACAGCCAGGY
106301 T G A GCTGCCTGGCTGTTTTGCCAAGCTCCTGCACATCCTTCGGGGCCA
106301 T A A GCTGCCTGGCTGTTTTGCTAAGCTCCTGCACATCCTTCGGGGCCA
106301 IS [GA] TCCCAGAGGCCCAGGTAACCGGCCAATGGGAGTCTGGCCCCGAAGGATGTGCAGGAGCT?[GA]GCAAACAGCCAGGCAGCTAGGTTGGCATGAGCTGAGCTTGGAGCT CCTTTCACAGAAGC
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106302 P A A CGCGCCGAGGAGCAAACCTGCAGTTTGY
106302 P G A ATGACGTGGCAGACGGCAAACCTGCAGTTTY
106302 T A A CTGGCAAACTGCAGGTTTGCTGACTGCGAGATATTTAGGACCGTGCTGTAGGCGTT
106302 T G A CTGGCAAACTGCAGGTTTGCCGACTGCGAGATATTTAGGACCGTGCTGTAGGCGTT
106302 IS [AG] GGCCACACTGGAGAACAGGGGCGAGAAGCCTACAGCACGGTCCTAAATATCTCGCAGTC[AG]GCAAACCTGCAGTTTGCCAGCTTGATCCAGAAGGTAAGACCTCAGCG ACCTGCCAGACT
106303 I A S GGTCTCAGACATCAGAAGGGCTGTGGTCCT
106303 P G A ATGACGTGGCAGACGGCTTTCATATGGGTATCY
106303 P A A CGCGCCGAGGAGGCTTTCATATGGGTATCY
106303 T G A CCCTGATACCCATATGAAAGCCGGACCACAGCCCTTCGATGTCTGAGACCCC
106303 T A A CCCTGATACCCATATGAAAGCCTGGACCACAGCCCTTCGATGTCTGAGACCCC
106303 IS [GA] CAAGCCACACCCTGGCCTCTGGGGGCTCTGGGGCTCTCAGACATCAGAAGGGCTGTGGTCC[GA]GGCTTTCATATGGGTATCAGGGGCTGAGGCGGCCCCTGCAGAGTGGG GTGCAGGCTGGGG
106306 I S CCTGGGGCCCCCGGAGCCA
106306 P G S ATGACGTGGCAGACGGCCCACCTGGY
106306 P A S CGCGCCGAGGTGGCCCACCTGGTY
106306 T G S CTTCACCAGGTGGGCCGGGCTCCGGGGGCCCCAGCAG
106306 T A S CTTCACCAGGTGGGCCAGGCTCCGGGGGCCCCAGCAG
106306 IS [GA] GTGGCCCCTTAGCGTTCCACCTCAAATACGAGCGTGACGTCCTCTTCACCAGGTGGGCC[GA]GGCTTCCGGGGGCCCCAGGAGAGGGAAGGCATGGGGAATGGGAGGAGG GAGGCCTAAGGGG
106326 I S AGTCTCTTTTGTTAATTTTGTTACATTAAAGTTAGTGATATTACTTTGAGCTTGTTT
106326 P T S CGCGCCGAGGATATTGATTACGTTCTCTTCTAGGY
106326 P C S ATGACGTGGCAGACGTATTGATTACGTTCTCTTCTAGGY
106326 T T S TTTACCTAGAAGAGAAGCGTAATCAATATAACAAGCTCAAAGTAATATCACTAACTTTAATGTAACAAAATTAACAAAAAGAGACTGT
106326 T C S TTTACCTAGAAGAGAACGTAATCAATACAACAAGCTCAAAGTAATATCACTAACTTTAATGTAACAAAATTAACAAAAAGAGACTGT
106326 IS [TC] ACAGAAGCCACCAGTAACTTTTTTAACTCACGATTTACCTAGAAGAGAACGTAATCAATA[TC]AACAAGCTCAAAGTAATATCACTAACTTTAATGTAACAAAATTAAC AAAAAGAGACTGTG
106327 I A S ACAGAACCCTGTCATCCATGGGAGCTTACCAA
106327 P C A ATGACGTGGCAGACCGTGGATGCAGAAGCY
106327 P T A CGCGCCGAGGTGTGGATGCAGAAGCTY
106327 T C A CAAAAGCTTCTGCATCCACATGGTAAGCTCCCATGGATGACAGGGTTCTGTAT
106327 T T A CAAAAGCTTCTGCATCCACATGGTAAGCTCCCATGGATGACAGGGTTCTGTAT
106327 IS [CT] GCAGCAATAGCAATAATAGTCTCCATCATACAGAAACCCTGTCATCCATGGGAGCTTACCA[CT]GTGGATGCAGAAGCTTTTGTGAGGGGCAGCCCGGACCATCTTTTGGA CTTAATATACCGA
106328 I A S TCCCAGATCTTCTGCCCCCAATGTATTGTT
106328 P A A CGCGCCGAGGACATCTAATCAAAAGCTTCTTTCT
106328 P G A ATGAGTGGCAGAGCATCTAATCAAAAGCTTCTTTY
106328 T A A GCTAGAAAGAAGCTTTTGATTAGATGTACAATACATTGGGGGCAGAAGATCTGGGAATC
106328 T G A GCTAGAAAGAAGCTTTTGATTAGATGCACAATACATTGGGGGCAGAAGATCTGGGAATC
106328 IS [AG] TCCATAGTCCTTCAGGCTCCATCTTAATTGATCCCAGATCTCTCTGCCCCCAATGTATTGT[AG]CATCTAATCAAAAGCTTCTTTCTAGCTGGCTCCTTGGGTTTCAGCTAC ATTTCTTAGATG
106329 I S GGCACCAAAGAAAAGGTGGTGGCTGGTGAATTTAAT
106329 P T S CGCGCCGAGGATGAAAGATTCCCTAGGTCTY
106329 P C S ATGACGTGGCAGACGTGAAAGATTCCCTAGGTCY
106329 T T S GACCAGACCTAGGGAATCTTTCATTTAAATTCACCAGCCACCACCTTTTCTTTGGTGCCCC
106329 T C S GACCAGACCTAGGGAATCTTTCACTTAAATTCACCAGCCACCACCTTTTCTTTGGTGCCCC
106329 IS [TC] TTTGCTTACGATGTTAAAACCATAGCTTCATAGCTAAGACCAGACCTAGGGAATCTTTCA[TC]TTAAATTCACCAGCCACCACCTTTTCTTTGGTGCCCCTCATAATACAT CCTCCTGGCAG
106332 I A S CCCACGGCCAGTGAGGCCCAAA
106332 P C A ATGACGTGGCAGACGTGCTAGAGAGGAGAAY
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106332 T C A AGCCATTTCTCCTCTCTAGCACGTTGGGCCTCACTGGCCCTGGGTG
106332 T T A AGCCATTTCTCCTCTCTAGCACATTGGGCCTCACTGGCCCTGGGTG
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106334 I S AGCCTGGGAGAGGCAGGGATGCAC
106334 P A S CGCGCCGAAGGTCATGCTCGCCTTTTTGY
106334 P C S ATGACGTGGCAGACGCATGCTCGCCTTTTY
106334 T A S AGGGCAAAAAGGCGAGCATGATGCATCCCTGCCTCTCCCAGGCTGG
106334 T C S AGGGCAAAAAGGCGAGCATGCTGCATCCCTGCCTCTCCCAGGCTGG
106334 IS [AC] CTTAGTGCAGGAATTTTAGGAACTCCCTGGGAGAAGTGGCAGGGCAAAAAGGCGAGCATG[AC]TGCATCCCTGCCTCTCCCAGGCTGGGATCATCACTGGCAAGTGACAG AACCTCCCTGTGC
106335 I A S CGACACTCCATAGTACGTGAAGGCCCCATTCTCT

FIGURE 129C

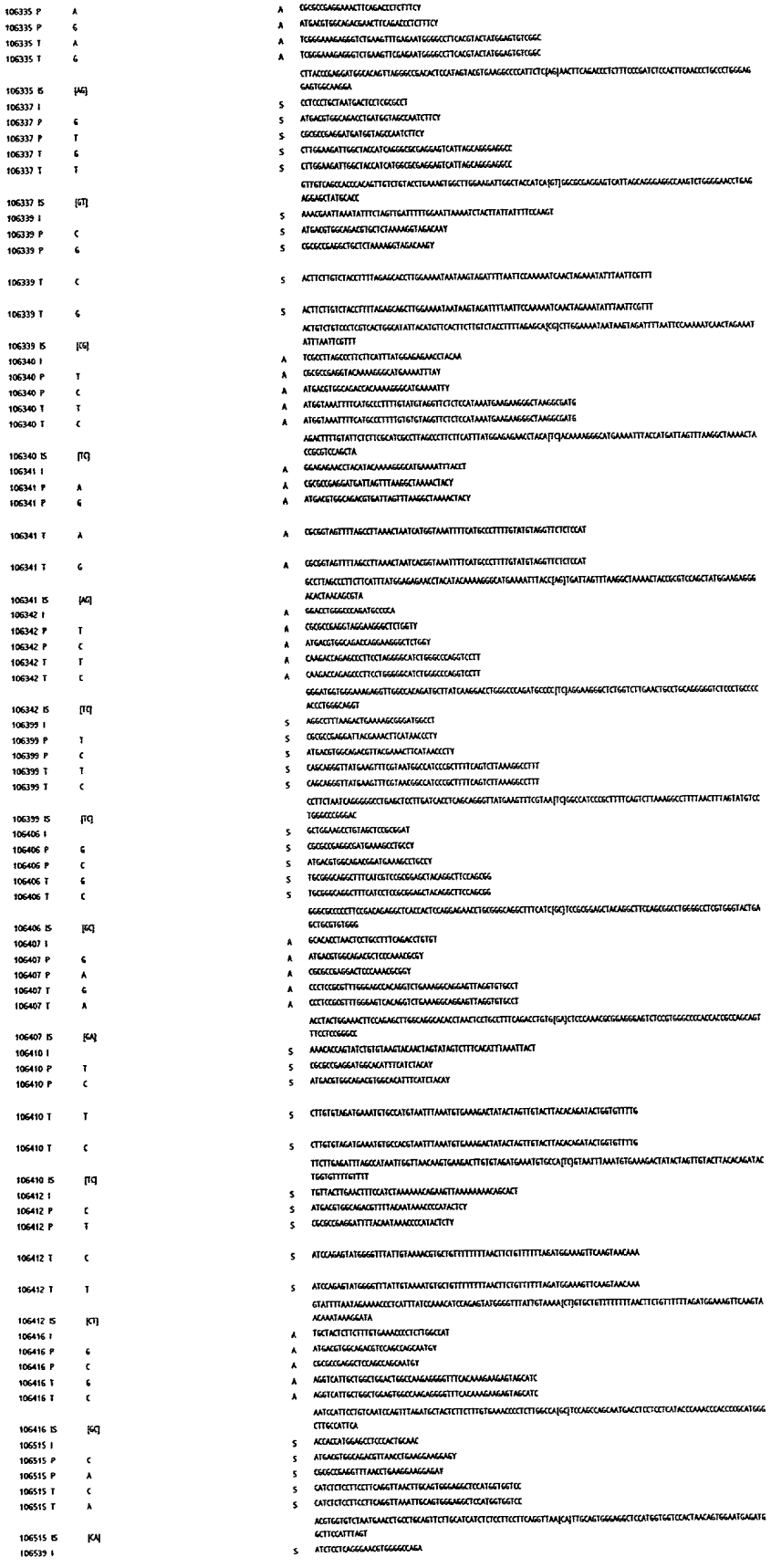


FIGURE 129C

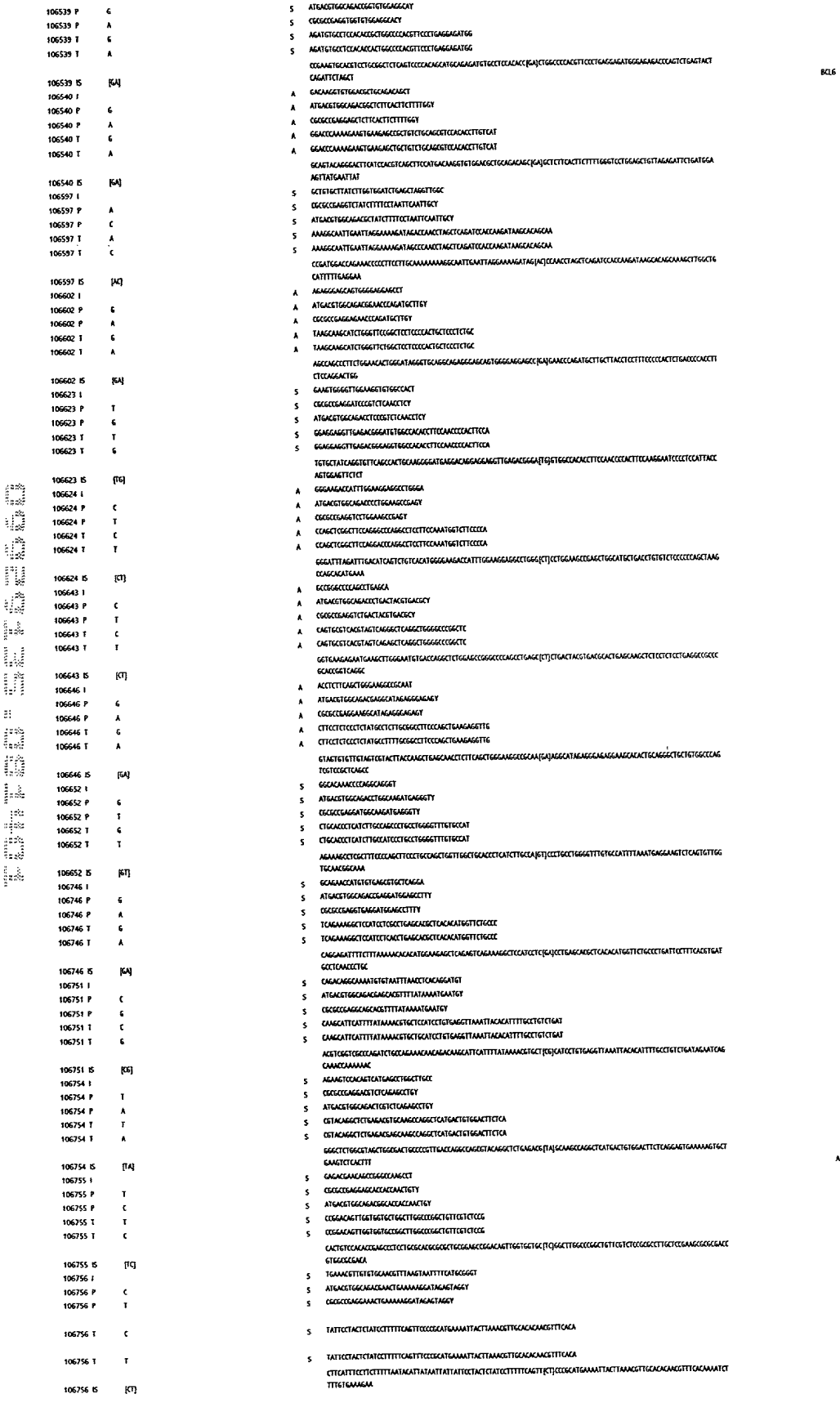

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S ATGACGTGGCAGACGGCCACCACAACTGY
S CCGGACAGTTGGTGGTGCTGGCTTGGCCCGGCTGTTCGTCTCCG
S CCGGACAGTTGGTGGTGCCGGCTTGGCCCGGCTGTTCGTCTCCG
CACTGTCCACACCGAGCCCTCCTGCGCACGCGCGCTGCGGAGCCGGACAGTTGGTGGTGC[TC]GGCTTGGCCCGGCTGTTCGTCTCCGCGCCTTGCTCCGAAGCGCGCGACC
GTGGCCCGACA
S TGAAACGTTGTGTGCAACGTTTAAGTAATTTTCATGCGGGT
S ATGACGTGGCAGACGAACTGAAAAAGGATAGAGTAGGY
S CGCGCCGAGGAAACTGAAAAAGGATAGAGTAGGY
S TATTCCTACTCTATCCTTTTTCAGTTCCCCGCATGAAAATTACTTAAACGTTGCACACAACGTTTCACA
S TATTCCTACTCTATCCTTTTTCAGTTTCCCGCATGAAAATTACTTAAACGTTGCACACAACGTTTCACA
CTTCATTTCCTTCTTTTTAATACATTATAATTATTATTGCTACTCTATCCTTTTTCAGTT[CT]CCCGCATGAAAATTACTTAAACGTTGCACACAACGTTTCACAAAATCT
TTTGTGAAAGAA

FIGURE 129C

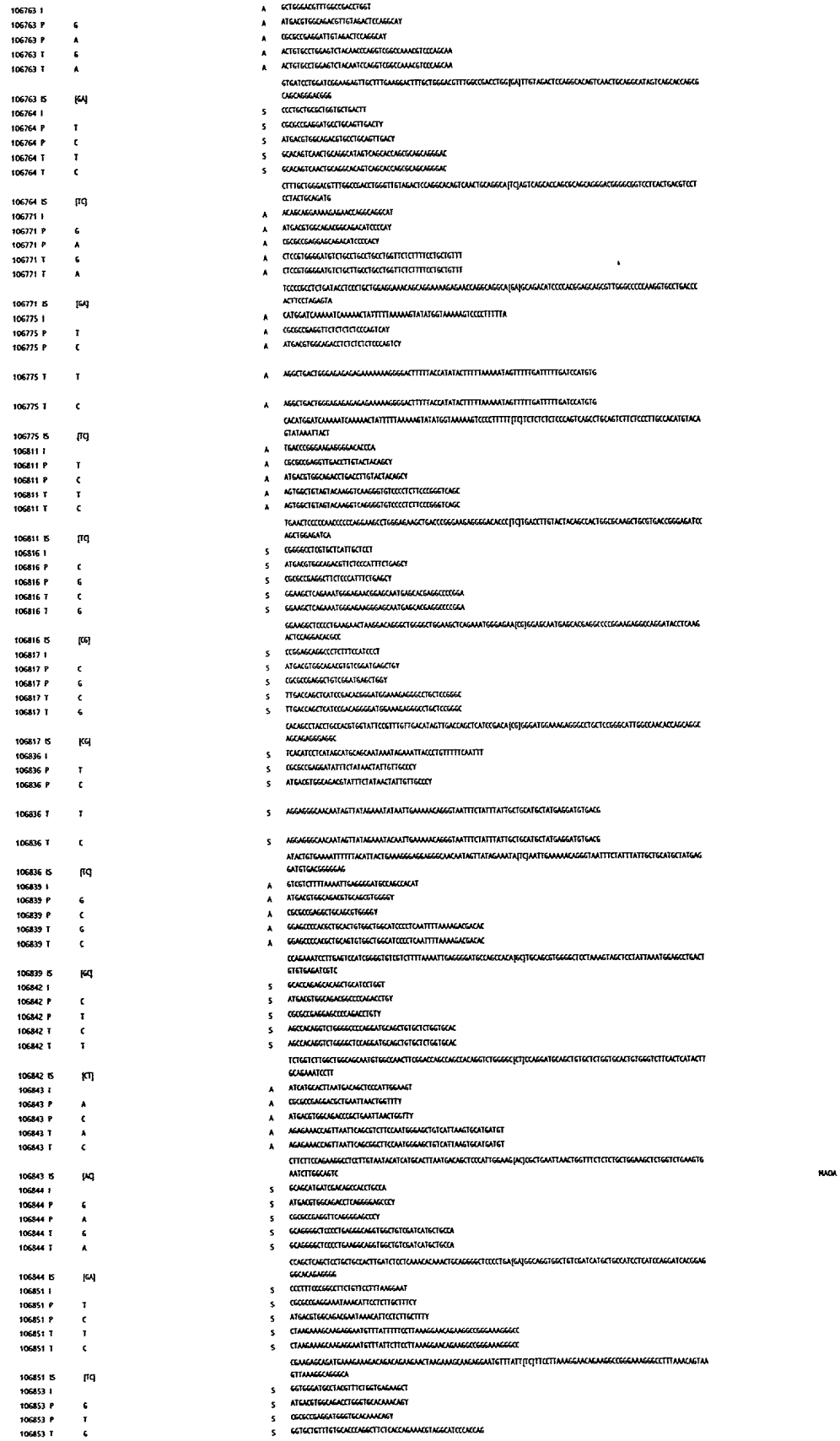


FIGURE 129C

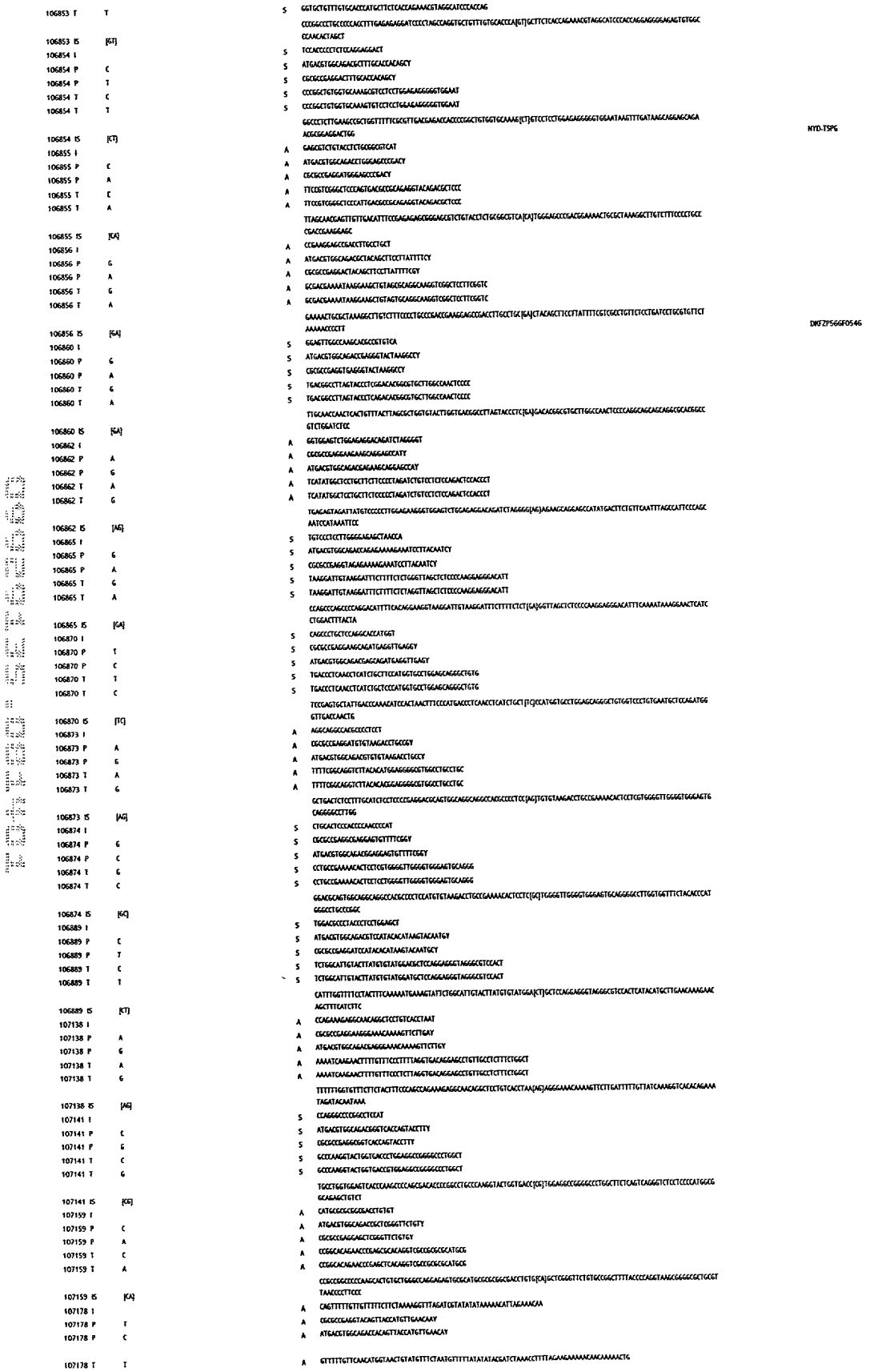
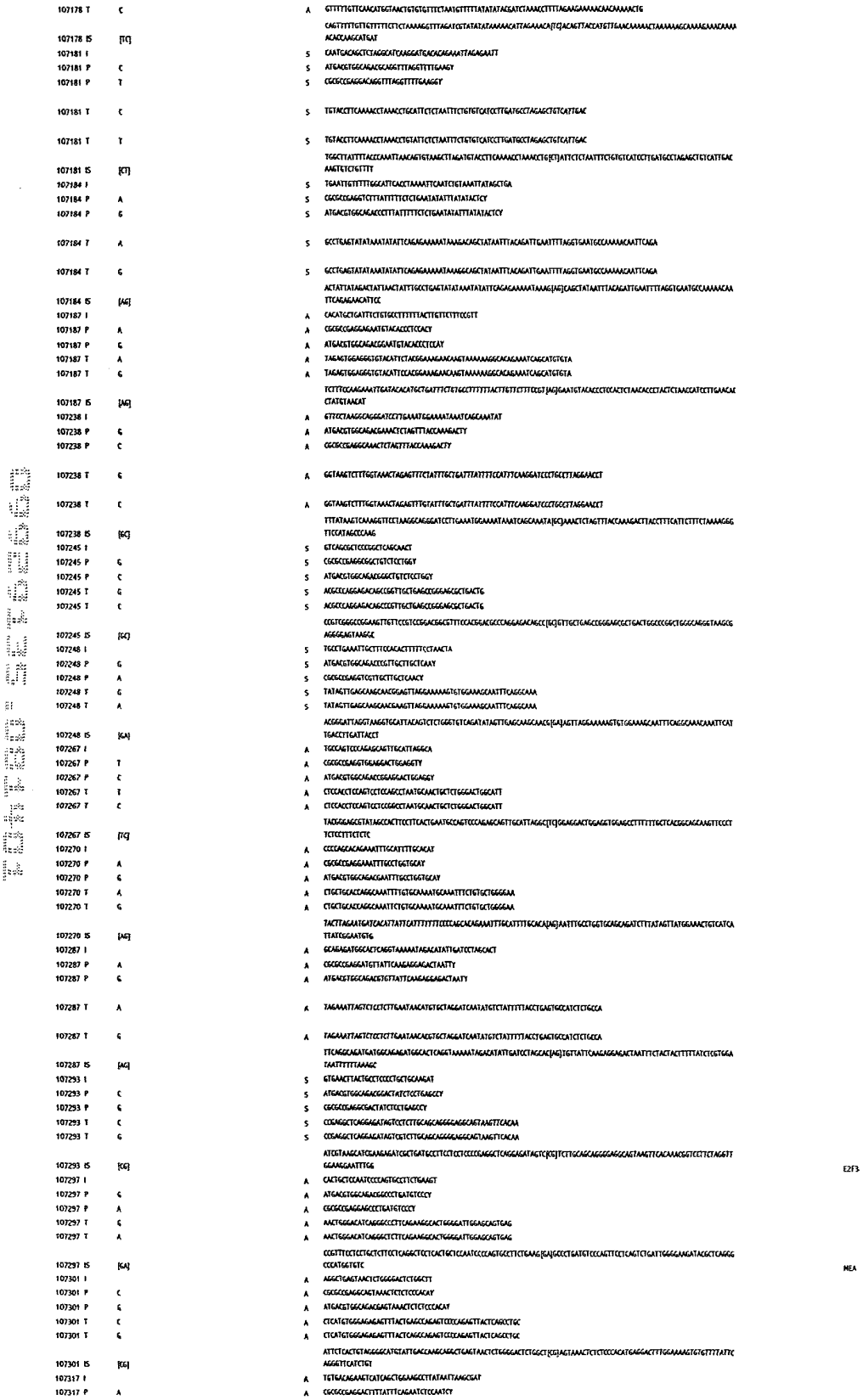
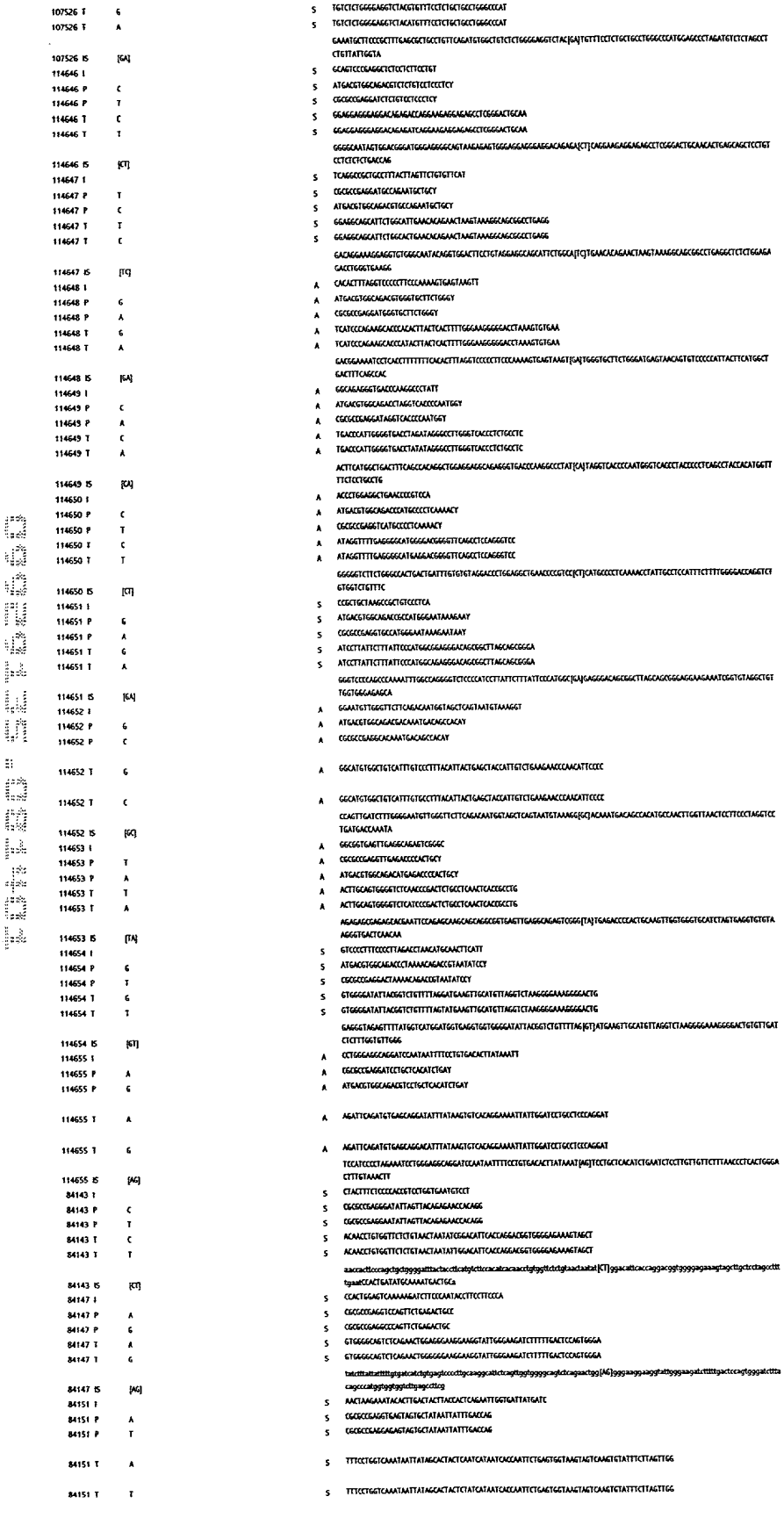


FIGURE 129C



107317 T	A	A	CATGGAATTGGAGATTCTGAAATAAAAGTTCGCTTAATTATAAGGCTTCCAGCTGATGACTTCTGTCACATC	
107317 T	C	A	CATGGAATTGGAGATTCTGAAATAAAAGTCGCTTAATTATAAGGCTTCCAGCTGATGACTTCTGTCACATC	
107317 IS	[AC]		TTACTCTTCTTTATTTGGATGTGACAGAAGTCATCAGCTGGAAGCCTTATAATTAAGCGA[AC]CTTTTATTTCAGAATCTCCAATCCATGTTTTAATTCCAATTTTTCAG GATCTTCAACAC	
107336 F		S	CTGGCGAAGTGCCCACACCAGGATTA	
107336 P	G	S	ATGACGTGGCAGACCCTGCCTCCTCGGY	
107336 P	A	S	CGCGCCGAGGTCTGCCTCCTCGGGY	
107336 T	G	S	CACGCCCGAGGAGGCAGGAATCCTGGTGTGGGCACTTCGCCAGGG	
107336 T	A	S	CACGCCCGAGGAGCAGAAATCCTGGTGTGGGCACTTCGCCAGGG	
107336 IS	[GA]		GGCCTCACTCCCACCCGCCTGCCCCAGGCAGCCGGCCCCAGACAGCCCCGAGGAGGCAG[GA]AATCCTGGTGTGGGCACTTCGCCAGGGATGCCACCCCACATGGTTCCAC AGCAGGGGCAC	
107340 I		S	GCCCGATGCGCTGCTCCGCT	
107340 P	T	S	CGCGCCGAGGACAGGAGTGGCAGAGY	
107340 P	C	S	ATGACGTGGCAGACGCAGGAGTGGCAGAY	
107340 T	T	S	CTACCTCTGCCACTCCTGTGCGGAGCAGGCATCGGGCCC	
107340 T	C	S	CTACCTCTGCCACTCCTGGCGGAGCAGGCATCGGGCCC	
107340 IS	[TC]		TTGTCCATCACCACAGAGCAACAGGAAGAAAACAAGGGGGCTACCTCTGCCACTCCTG[TC]GCGCGAGCAGCGCATCGGGCCCCTGGCGTTCCTGACAGCCTCCCCGAG CAGGTGCGCGCC	
107358 I		A	GTTTATCATTGTTGCAGGCTTATGATACTTATTAAATAACAAGTTTTTAAATTTCTGGC	
107358 P	G	A	ATGACGTGGCAGACGATATTCTTTTAGGAAATGATGACAGY	
107358 P	T	A	CGCGCCGAGGTATATTCTTTTAGGAAATGATGACAGY	
107358 T	G	A	TTCTCTGTCATCATTTCCTAAAAGAATATCCCAGAAATTTAAAAACTTGTTATTTAATAAGTATCATAAGCCTGCAACAATGATAAACAA	
107358 T	T	A	TTCTCTGTCATCATTTCCTAAAAGAATATACCAGAAATTTAAAAACTTGTTATTTAATAAGTATCATAAGCCTGCAACAATGATAAACAA	
107358 IS	[GT]		TTGTTTATCATTGTTGCAGGCTTATGATACTTATTAAATAACAAGTTTTTAAATTTCTGG[GT]ATATTCTTTTAGGAAATGATGACAGAGAAAGAAAGAAGCAATGTG GTTATAACAAGCATG	
107381 I		A	CCTTGGTCATGATGAGCAGCTCCATCTCCTTCTTT	
107381 P	A	A	CGCGCCGAGGAGCAGGTGTGTGTGTCTY	
107381 P	G	A	ATGACGTGGCAGACGGCAGGTGTGTTGTCY	
107381 T	A	A	AGAAAGACAACACACCTGCTAAGAAGGAGATGGAGCTGCTCATCATGACCAAGGAC	
107381 T	G	A	AGAAAGACAACACACCTGCCAAGAAGGAGATGGAGCTGCTCATCATGACCAAGGAC	
107381 IS	[AG]		GGAGGCTGTAAAGACCTTCCCGCTGTCCTTGGTCATGATGAGCAGCTCCATCTCCTTCTT[AG]GCAGGTGTGTTGTCTTCTCTAGGATCAGGAACTTGCAGTCCTTGTGC AAAAGGTCATCG	COL17A1
107391 I		A	GGATAGTTCTCATGTATGCTTTGCCATAGAATTTAGTTATATACATAAACTCATT	
107391 P	G	A	ATGACGTGGCAGACGAAAGGTTGATGCAGTGAY	
107391 P	A	A	CGCGCCGAGGAAAAGGTTGATGCAGTGATY	
107391 T	G	A	TCATATCACTGCATCAACCTTTCATGAGTTTATGTATATAACTAAATTCTATGGCAAAGCATACATGAGAACTATCCTA	
107391 T	A	A	TCATATCACTGCATCAACCTTTTATGAGTTTATGTATATAACTAAATTCTATGGCAAAGCATACATGAGAACTATCCTA	
107391 IS	[GA]		TCTCTAGGATAGTTCTCATGTATGCTTTGCCATAGAATTTAGTTATATACATAAACTCATGAGAAAAGGTTGATGCAGTGATATGATATATTTAATGACTCTGTAGATTA TTATTAGCTTCCTA	
107408 I		A	TGCTTCCCCGCCCTGTCTCTGGTT	
107408 P	A	A	CGCGCCGAGGACTTTCTACCAACACTGGY	
107408 P	G	A	ATGACGTGGCAGACGCTTTCTACCAACACTGGY	
107408 T	A	A	CAGCCCAGTGTTGGTAGAAAGTACCAGACAGACAGGCGGGGGAAGCAGG	
107408 T	G	A	CAGCCCAGTGTTGGTAGAAAGCACCAGAGACAGGCGGGGGAAGCAGG	
107408 IS	[AG]		CCAGGAGTCTGTGGCAAAAGTCAGCTTCTTCCCTCCCTGCTTCCCCGCCCTGTCTCTGGT[AG]CTTTCTACCAACACTGGGCTGTTTCTGTCATCACACTTAAGCGTACCTA ACCTGCGAATG	
107413 I		S	CCCTTCTCAGCTTCTGTTTGCTCACTTTGCTTTCTCT	
107413 P	C	S	ATGACGTGGCAGACGTCCATTTCTAGAACACTCTGY	
107413 P	T	S	CGCGCCGAGGATCCATTTCTAGAACACTCTGY	
107413 T	C	S	GGTCCAGAGTGTTCTAGAAATGGCAGCAGAAAGCAAAGTGAGCAAACAGAAGCTGAGAAGGGAA	
107413 T	T	S	GGTCCAGAGTGTTCTAGAAATGGATGAGAAAGCAAAGTGAGCAAACAGAAGCTGAGAAGGGAA	
107413 IS	[CT]		TGATATTGCCCTGGACAGCCTCGCCAGTTTCCTCCAGGTCCAGAGTGTTCTAGAAATGGAG[CT]GAGAAAGCAAAGTGAGCAAACAGAAGCTGAGAAGGGAACACTGGTT TGTTCTCCAGCACA	
107470 I		S	CTCACTCCCCACCTGTCTGAGCCCAGT	
107470 P	C	S	ATGACGTGGCAGACGGCAAGCCAATACCATAGY	
107470 P	T	S	CGCGCCGAGGAGCAAGCCAATACCATAGY	
107470 T	C	S	CAGTCTATGGTATTGGCTTGCCCTGGGCTCAGACAGGTGGGAGGTGAGCA	
107470 T	T	S	CAGTCTATGGTATTGGCTTGCTCTGGGCTCAGACAGGTGGGAGGTGAGCA	
107470 IS	[CT]		CTCTTCTCCTTTGGTGAGCCTGCCCATGGCATTCTAAGCCAGTCTATGGTATTGGCTTGC[CT]CTGGGCTCAGACAGGTGGGAGGTGAGCAGAGAAGCTACCCAGCCTGT AGGCCTGACCCCT	
107471 I		S	TGCGCATGGTGGAGGGCAGGCA	
107471 P	G	S	ATGACGTGGCAGACCGATCTGCACTGGAGAY	
107471 P	A	S	CGCGCCGAGGTGATCTGCACTGGAGAGY	
107471 T	G	S	TTGTCTCTCCAGTGCAGATCGGGCTGCCCTCCACCATGCGCATG	
107471 T	A	S	TTGTCTCTCCAGTGCAGATCAGCCTGCCCTCCACCATGCGCATG	
107471 IS	[GA]		TGACCCCTCTGTGTTCACCTACTCTGCTCTCAGCCCCACCTTGTCTCTCCAGTGCAGATC[GA]GCCTGCCCTCCACCATGCGCATGACAGTGGCTGACGGCACTGTATACAT AGCCCAGCAGA	
107512 I		S	TGAATTATGGAAGAAGTTAAAGATAATGACATTTATGGGCAAAATGTCAA	
107512 P	R	S	CGCGCCGAGGTGTCTGAGATTTGATTTTAATACTCT	
107512 P	G	S	ATGAGGTGGCAGACGGTCTGAGATTTGATTTTAATACTY	
107512 T	A	S	CTTAGAGTATTAAAATCAAATCTCAGACATGACATTTTGCCCATAAATGTCATTATCTTTAACTTCTTCCATAATTCAGA	
107512 T	G	S	CTTAGAGTATTAAAATCAAATCTCAGACGTGACATTTTGCCCATAAATGTCATTATCTTTAACTTCTTCCATAATTCAGA	
107512 IS	[AG]		GTATCCAATCTTGTTTTATTGTCATTTTTCTTCTTAGAGTATTAAAATCAAATCTCAGACE[AG]TGACATTTTGCCCATAAATGTCATTATCTTTAACTTCTTCCATAATTC AGATATTTTCTG	
107513 I		S	GTGGCCACGAGGCTCCTTGGGGA	
107513 P	G	S	ATGACGTGGCAGACCGGCGACAGAAGGCY	
107513 P	A	S	CGCGCCGAGGTGGCGACAGAAGGCY	
107513 T	G	S	CGTGGCCTTCTGTCGCCGCCCCAAGGAGGCTCGTGGCCACAC	
107513 T	A	S	CGTGGCCTTCTGTCGCCACCCCAAGGAGGCTCGTGGCCACAC	
107513 IS	[GA]		AGAGCACAGACCCTCGCCGTGTGGAGGCAGCAGGCTGTCACTCCGTGGCCTTCTGTCGCC[GA]CCCCCAAGGAGGCTCGTGGCCACAGCTCTGGGCCACTCCTCTCTTTGGA AAACTGAGACTC	
107514 I		S	ACAAGTTCGTCAAGTAAGTCTAGGGGCAGGTGCA	
107514 P	A	S	CGCGCCGAGGTGGTGCATGTCCACTY	
107514 P	G	S	ATGACGTGGCAGACGGTGCATGTCCACY	
107514 T	A	S	GGGAAGTGGACATGCACCAGCACCTGCCCCTAGACTTACTTGACGAACTTGTCC	
107514 T	G	S	GGGAAGTGGACATGCACCGGCACCTGCCCCTAGACTTACTTGACGAACTTGTCC	
107514 IS	[AG]		CATAETACCATGAAAACACCCCCGCCGGCACCCCACACCCCTGGGAAGTGGACATGCACC[AG]GCACCTGCCCCTAGACTTACTTGACGAACTTGTCCCACGTGGGACATGG AGGCCTCGTAGT	
107526 I		S	GGGCCCAGGCAGCAGCAGGAAACAA	
107526 P	G	S	ATGACGTGGCAGACCGTAGACTCCCCAGY	
107526 P	A	S	CGCGCCGAGGTGTAGACTCCCCAGAY	

FIGURE 129C



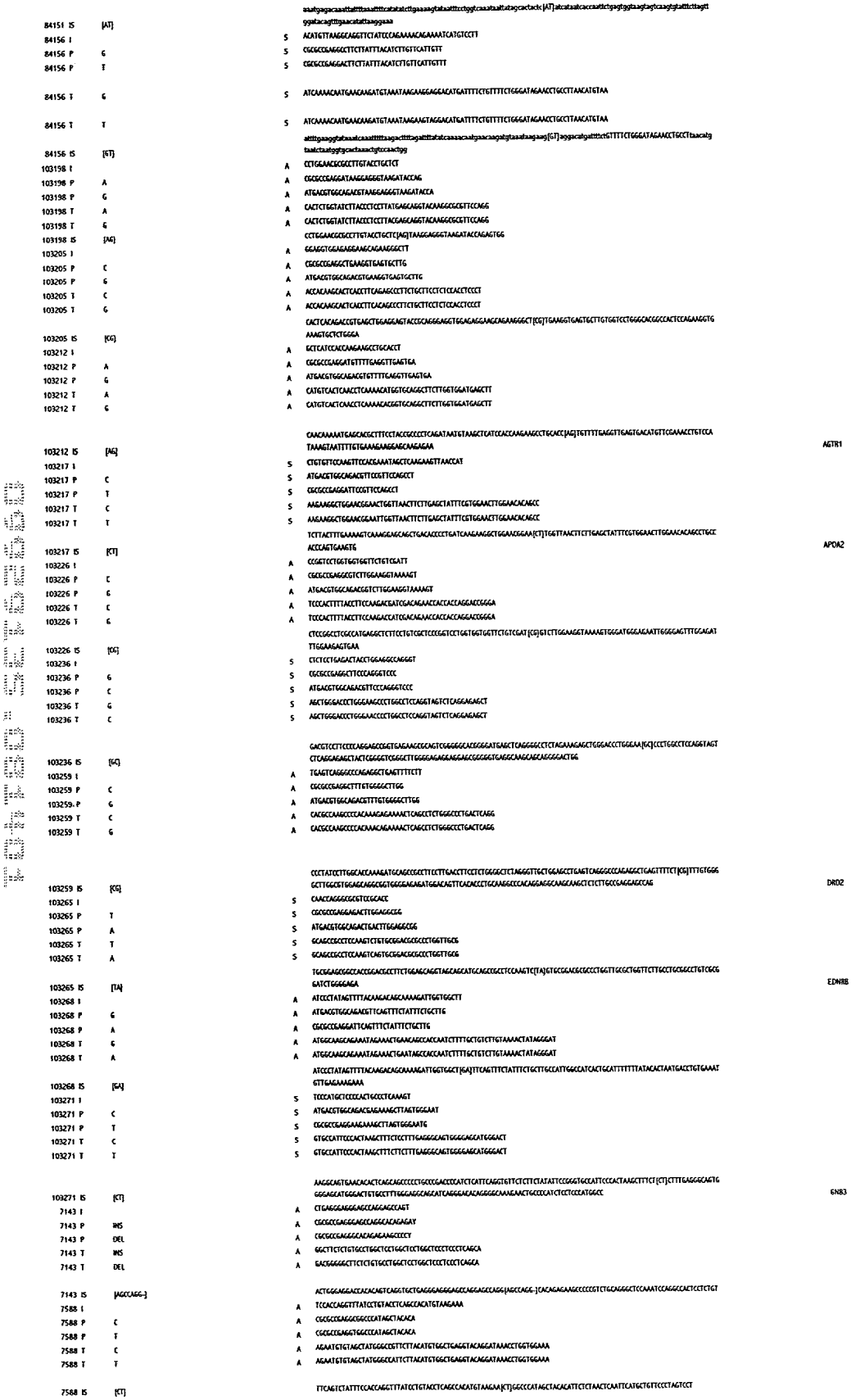

AGTR1
APOA2
DRD2
EDNRB
GNB3

FIGURE 129C

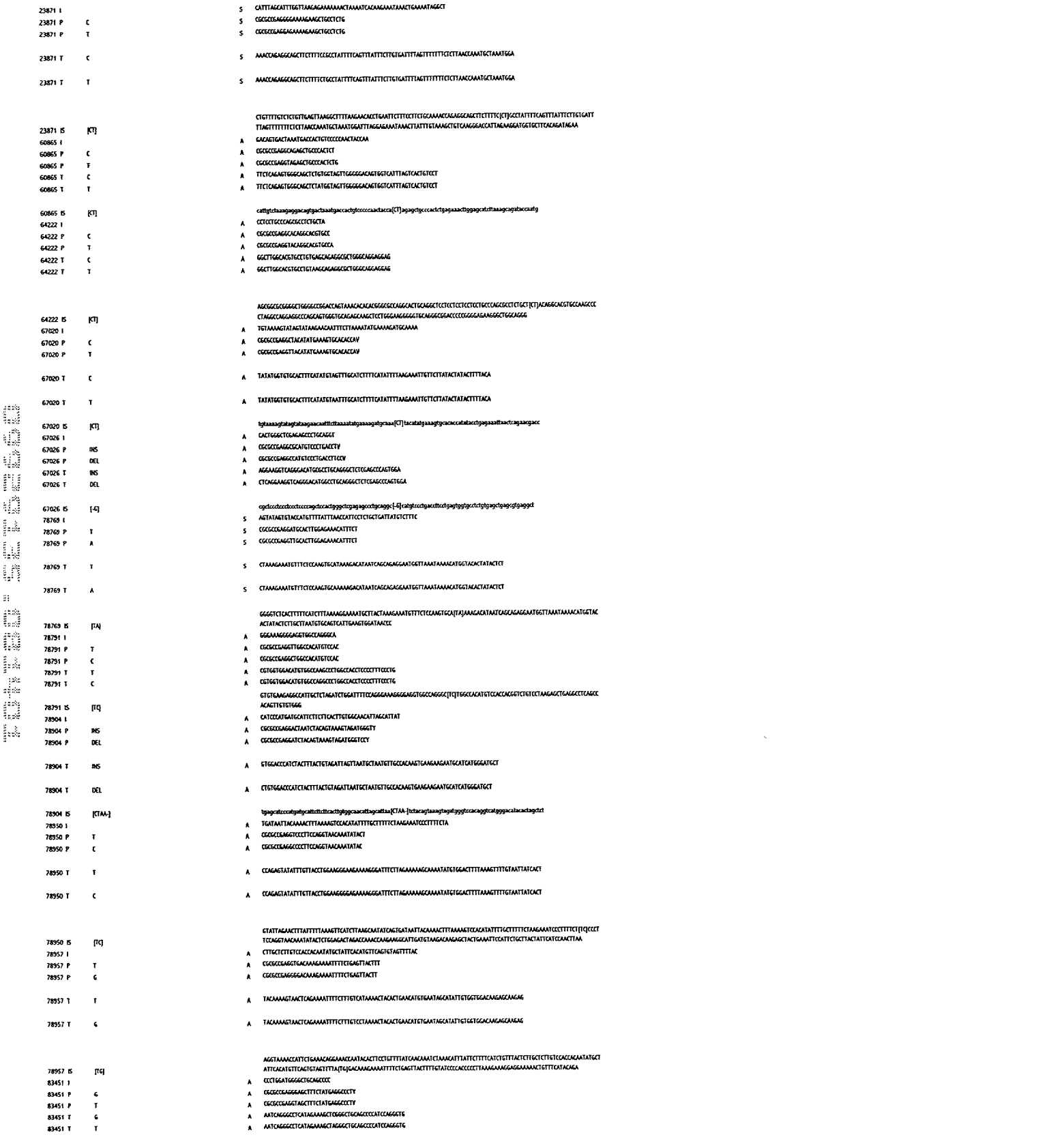

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23871 P C S CGCGCCSAGGGGAAAAGAAGCTGCCTCTG
23871 P T S CGCGCCSAGGAGAAAAGAAGCTGCCTCTG
23871 T C S AAACCAGAGGCAGCTTCTTTTCCGCCTATTTTCAGTTTATTTCTTGTGATTTTAGTTTTTTTCTCTTAACCAAATGCTAAATGGA
23871 T T S AAACCAGAGGCAGCTTCTTTTCTGCCTATTTTCAGTTTATTTCTTGTGATTTTAGTTTTTTTCTCTTAACCAAATGCTAAATGGA
23871 IS [CT] CTGTTTTGTCTCTGTTGAGTTAAGGCTTTTAAGAACACCTGAATTCTTTCCTTCTGCAAAACAGAGGCAGCTTCTTTTC[CT]GCCTATTTTCAGTTTATTTCTTGTGATT TTAGTTTTTTTCTCTTAACCAAATGCTAAATGGATTTAGGAGAAATAAACTTATTTGTAAAGCTGTCAAGGGACCATTAGAAGGATGGTGCTTCACAGATAGAA
60865 I A GACAGTGACTAAATGACCACTGTCCCCCAACTACCAA
60865 P C A CGCGCCSAGGCAGAGCTGCCCACTCT
60865 P T A CGCGCCSAGGTAGAGCTGCCCACTCTG
60865 T C A TTCTCAGAGTGGGCAGCTCTGTGGTAGTTGGGGGACAGTGGTCATTTAGTCACTGTCCT
60865 T T A TTCTCAGAGTGGGCAGCTCTATGGTAGTTGGGGGACAGTGGTCATTTAGTCACTGTCCT
60865 IS [CT] catttgtctaaagaaggacagtgactaaatgaccactgtccccccaactacca[CT]agagctgcccactctgagaaacttggagcatcttaaagcagatacaatg
64222 I A CCTCCTGCCCAGCGCCTCTGCTA
64222 P C A CGCGCCSAGGCACAGGCACGTGCC
64222 P T A CGCGCCSAGGTACAGGCACGTGCCA
64222 T C A GGCTTGGCACGTGCCTGTGAGCAGAGGCGCTGGGCAGGAGGAG
64222 T T A GGCTTGGCACGTGCCTGTAAGCAGAGGCGCTGGGCAGGAGGAG
64222 IS [CT] AGCGGCGCGGGGCTGGGGCCGGACCAGTAAACACACACGGGCGCCAGGCACTGCAGGCTCCTCCTCCTCCTGCCCAGCGCCTCTGCT[CT]ACAGGCACGTGCCAAGCCC CTAGCCCAGCAGGCCCAGCAGTGGGTGCACAGACCAAGCTCCTGGGAAGGGGGTGCAGGGCCGSACCCCCGGGGGAGAAGGGCTGGCAGGG
67020 I A TGTAAAAGTATAGTATAAGAAACAATTTCTTAAAATATGAAAACGATGCAAAA
67020 P C A CGCGCCSAGGCTACATATGAAAGTGCACACCAV
67020 P T A CGCGCCSAGGTTACATATGAAAGTGCACACCAV
67020 T C A TATATGGTGTGCACTTTCATATGTAGTTTGCATCTTTTCATATTTTAAGAAATTGTTCTTATACTATACTTTTACA
67020 T T A TATATGGTGTGCACTTTCATATGTAATTTGCATCTTTTCATATTTTAAGAAATTGTTCTTATACTATACTTTTACA
67020 IS [CT] tgtaaaagtatagtatagaaacaatttcttaaaatatgaaaagatgcaaa[CT]tacatatgaaagtgcacaccatatacctgagaaatttaactcagaacgacc
67026 I A CACTGGGCTCGAGAGCCCTGCAGGT
67026 P INS A CGCGCCSAGGCGCATGTCCCTGACCTV
67026 P DEL A CGCGCCSAGGCCATGTCCCTGACCTCCV
67026 T INS A AGGAAGGTCAGGGACATGCGCCTGCAGGGCTCTCGAGCCCAGTGGA
67026 T DEL A CTCAGGAAGGTCAGGGACATGGCCTGCAGGGCTCTCGAGCCCAGTGGA
67026 IS [-G] cgcccccccccccccccagcccactgggctcgagagcccttgcaggc[-G]catgtcccttgaccttccttgagtggtgcctctgtgagctgagcgtgagggct
78769 I S AGTATAGTGTACCATGTTTTATTTAACCATTCCTCTGCTGATTATGTCTTTC
78769 P T S CGCGCCSAGGATGCACTTGGAGAAACATTTCT
78769 P A S CGCGCCSAGGTTGCACTTGGAGAAACATTTCT
78769 T T S CTAAAGAAATGTTTCTCCAAGTGCATAAAGACATAATCAGCAGAGGAATGGTTAAATAAAACATGGTACACTATACTCT
78769 T A S CTAAAGAAATGTTTCTCCAAGTGCAAAAAGACATAATCAGCAGAGGAATGGTTAAATAAAACATGGTACACTATACTCT
78769 IS [TA] GGGGTCTCACTTTTTCATCTTTAAAAGGAAAATGCTTACTAAAGAAATGTTTCTCCAAGTGCA[TA]AAAGACATAATCAGCAGAGGAATGGTTAAATAAAACATGGTAC ACTATACTCTTGCTTAATGTGCAGTCATTGAAGTGGATAACCC
78791 I A GGGAAAGGGGAGGTGGCCAGGGCA
78791 P T A CGCGCCSAGGTTGGCCACATGTCCAC
78791 P C A CGCGCCSAGGCTGGCCACATGTCCAC
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78791 T C A CGTGGTGGACATGTGGCCAGGCCCTGGCCACCTCCCCTTTCCCTG
78791 IS [TC] GTGTGAAGAGGCCATTGCTCTAGATCTGGATTTTCCAGGGAAAGGGGAGGTGGCCAGGGC[TC]TGGCCACATGTCCACCAGGGTCTGTCCTAAGAGCTGAGGCCTCAGCC ACAGTTGTGTGGG
78904 I A CATCCCATGATGCATTCTTCTTCACTTGTGGCAACATTAGCATTAT
78904 P INS A CGCGCCSAGGAACTAATCTACAGTAAAGTAGATGGGTY
78904 P DEL A CGCGCCSAGGATCTACAGTAAAGTAGATGGGTCCY
78904 T INS A GTGGACCCATCTACTTTACTGTAGATTAATGCTAATGTTGCCACAAGTGAAGAAGAATGCATCATGGGATGCT
78904 T DEL A CTGTGGACCCATCTACTTTACTGTAGATTAATGCTAATGTTGCCACAAGTGAAGAAGAATGCATCATGGGATGCT
78904 IS [CTAA-] tgagcatcccatgatgcattcttcttcacttgtggcaacattagcattaa[CTAA-]tctacagtaaagtagatgggtccacaggtcatgggacatacactagctct
78950 I A TGATAATTACAAAACTTTAAAAGTCCACATATTTTGCTTTTTCTAAGAAATCCCTTTTCTA
78950 P T A CGCGCCSAGGTCCCTTCCAGGTAACAAATATACT
78950 P C A CGCGCCSAGGCCCCTTCCAGGTAACAAATATAC
78950 T T A CCAGAGTATATTTGTTACCTGGAAGGGAAGAAAGGGATTTCTTAGAAAAAGCAAAATATGTGGACTTTTAAAGTTTTGTAATTATCACT
78950 T C A CCAGAGTATATTTGTTACCTGGAAGGGGAGAAAAGGGATTTCTTAGAAAAAGCAAAATATGTGGACTTTTAAAGTTTTGTAATTATCACT
78950 IS [TC] GTATTAGAACTTTATTTTTAAAGTTCATCTTAAGCAATATCAGTGATAATTACAAAACTTTAAAAGTCCACATATTTTGCTTTTTCTAAGAAATCCCTTTTCT[TC]CCCT TCCAGGTAACAAATATACTCTGGAGACTAGACCAAACCAAGAAGGCATTGATGTAAGACAAGAGCTACTGAAATTCCATTCTGCTTACTATTCATCCAACTTAA
78957 I A CTTGCTCTTGTCCACCACAATATGCTATTCACATGTTCAGTGTAGTTTTAC
78957 P T A CGCGCCSAGGTGACAAAGAAAATTTTCTGAGTTACTT
78957 P G A CGCGCCSAGGGGACAAAGAAAATTTTCTGAGTTACTT
78957 T T A TACAAAAGTAACTCAGAAAATTTTCTTTGTCATAAAACTACACTGAACATGTGAATAGCATATTGTGGTGCACAAGAGCAAGAG
78957 T G A TACAAAAGTAACTCAGAAAATTTTCTTTGTCCTAAAACTACACTGAACATGTGAATAGCATATTGTGGTGCACAAGAGCAAGAG
78957 IS [TG] AGGTAAAACATTCTGAAACAGGAAACCAATACACTTCCTGTTTTATCAACAAATCTAAACATTTATTCTTTTCATCTGTTTACTCTTGCTCTTGTCCACCACAATATGCT ATTCACATGTTCAGTGTAGTTTTA[TG]GACAAAGAAAATTTTCTGAGTTACTTTTGTATCCCCACCCCTTAAAGAAAGGAGGAAAAACTGTTTCATACAGA
83451 I A CCCTGGATGGGGCTGCAGCCCC
83451 P G A CGCGCCSAGGGAGCTTCTATGAGGCCCTY
83451 P T A CGCGCCSAGGTAGCTTTCTATGAGGCCCTY
83451 T G A AATCAGGGCCTCATAGAAAGCTCGGGCTGCAGCCCCATCCAGGGTG
83451 T T A AATCAGGGCCTCATAGAAAGCTAGGGCTGCAGCCCCATCCAGGGTG

FIGURE 129C

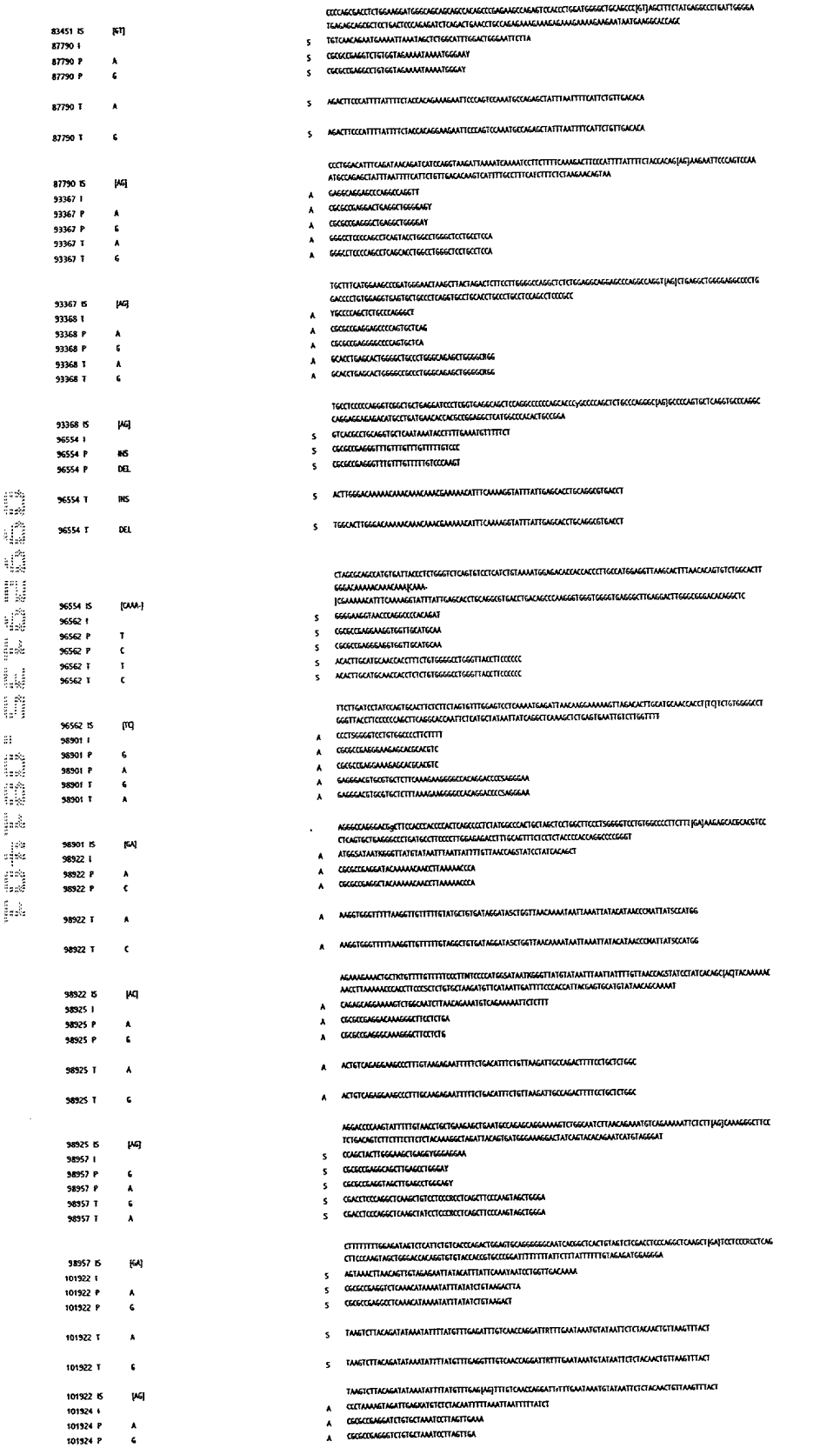


FIGURE 129C

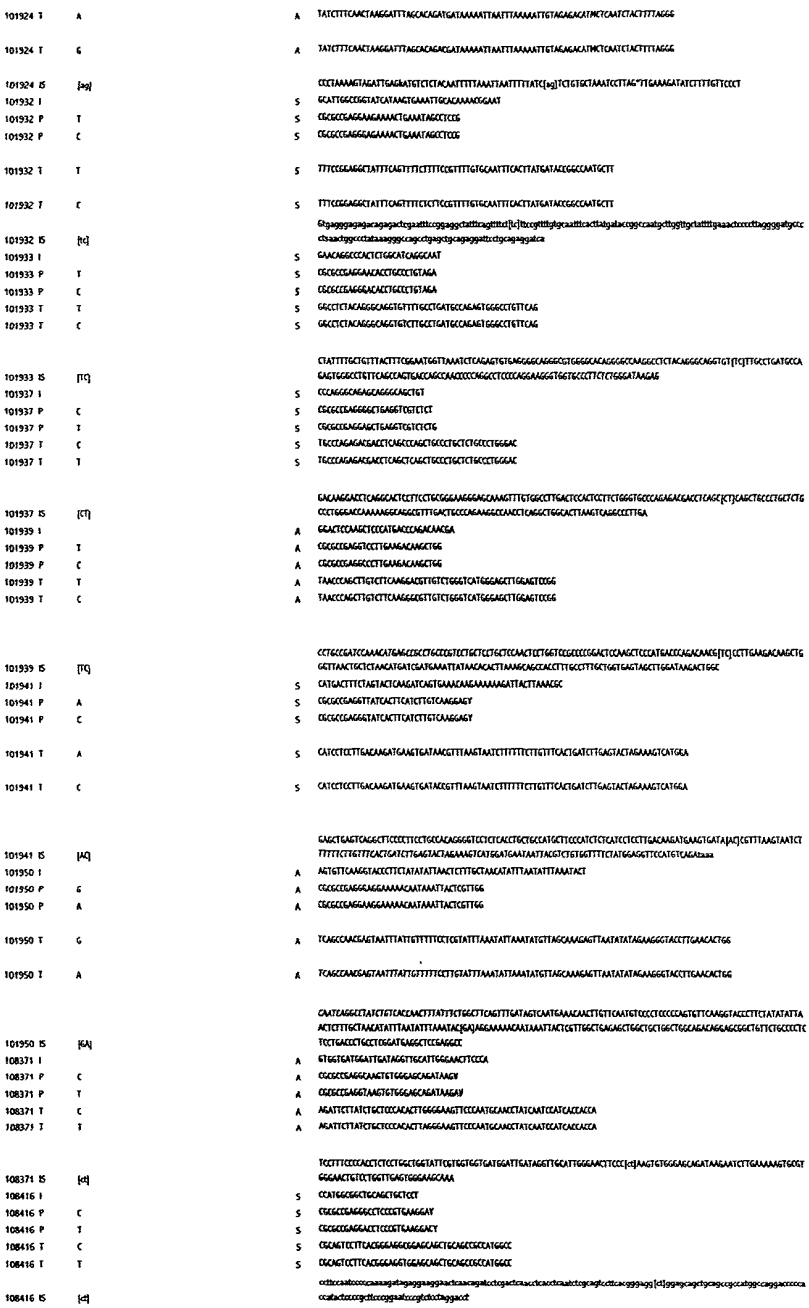

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101924 T G A TATCTTTCAACTAAGGATTTAGCACAGACGATAAAAATTAATTTAAAAATTGTAGAGACATMCTCAATCTACTTTTAGGG
101924 I5 [ag] CCCTAAAAGTAGATTGAGAATGTCTCTACAATTTTTAAATTAATTTTTATC[ag]TCTGTGCTAAATCCTTAG"TTGAAAGATATCTTTTGTTCCCT
101932 I S GCATTGGCCGGTATCATAAGTGAAATTGCACAAAACGGAAT
101932 P T S CGCGCCGAGGAAGAAAACTGAAATAGCCTCCG
101932 P C S CGCGCCGAGGGAGAAAACTGAAATAGCCTCCG
101932 T T S TTTCCGGAGGCTATTTCAGTTTTCTTTTCCGTTTTGTGCAATTTCACTTATGATACCGGCCAATGCTT
101932 T C S TTTCCGGAGGCTATTTCAGTTTTCTCTTCCGTTTTGTGCAATTTCACTTATGATACCGGCCAATGCTT
101932 I5 [tc] Gtgaggagagacagagactcgaatttccggaggctatttcagttttct[c]ttccgttttgtgcaatttcacttatgatacggccaatgcttggttgctatttttgaaactcccctttagggagatgccc ctcaactggccctataaagggccagcctgagctgcagaggatttcctgcagaggatca
101933 I S GAACAGGCCCACTCTGGCATCAGGCAAT
101933 P T S CGCGCCGAGGAACACCTGCCCTGTAGA
101933 P C S CGCGCCGAGGGACACCTGCCCTGTAGA
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101933 T C S GGCCTCTACAGGGCAGGTGTCTTGCCTGATGCCAGAGTGGGCCTGTTCAG
101933 I5 [TC] CTATTTTGCTGTTTACTTTCGGAATGGTTAAATCTCAGAGTGTGAGGGGCAGGGCGTGGGGCACAGGGGCCAGGCCTCTACAGGGCAGGTGT[TC]TTGCCTGATGCCA GAGTGGGCCTGTTCAGCCAGTGACCAGCCAACCCCCAGGCCTCCCCAGGAAGGGTGGTGCCCTTCTCTGGGATAAGAG
101937 I S CCCAGGGCAGAGCAGGGCAGCTGT
101937 P C S CGCGCCGAGGGGCTGAGGTCGTCTCT
101937 P T S CGCGCCGAGGAGCTGAGGTCGTCTCTG
101937 T C S TGCCTAGAGATGACCTCAGCCCAGCTGCCCTGCTCTGCCCTGGGAC
101937 T T S TGCCCAGAGACGACCTCAGCTCAGCTGCCCTGCTCTGCCCTGGGAC
101937 I5 [CT] GACAGGACCTCAGGCACTCCTTCCTGCGGGAAGGGAGCAAAGTTTGTGGCCTTGACTCCACTCCTTCTGGGTGCCCAGAGACGACCTCAGC[CT]CAGCTGCCCTGCTCTG CCCTGGGACCAAAAAGGCAGGCGTTTGACTGCCCAGAAGGCCAACCTCAGGCTGGCACTTAAGTCAGGCCCTTGA
101939 I A GGACTCCAAGCTCCCATGACCCAGACAACGA
101939 P T A CGCGCCGAGGTCCTTGAAGACAAGCTGG
101939 P C A CGCGCCGAGGCCCTTGAAGACAAGCTGG
101939 T T A TAACCCAGCTTGTCTTCAAGGAGTTGTCTGGGTCATGGGAGCTTGGAGTCCGG
101939 T C A TAACCCAGCTTGTCTTCAAGGGGTTGTCTGGGTCATGGGAGCTTGGAGTCCGG
101939 I5 [TC] CCTGCCGATCCAAACATGAGCCSCCTGCCCGTCCTGCTCCTGCTCCAACTCCTGGTCCGCCCCGACTCCAAGCTCCCATGACCCAGACAACG[TC]CCTTGAAGACAAGCTG GCTTAACTGCTCTAACATGATCGATGAAATTATAACACACTTAAAGCAGCCACCTTTGCCTTTGCTGGTGAGTAGCTTGGATAAGACTGGC
101941 I S CATGACTTTCTAGTACTCAAGATCAGTGAAACAAGAAAAAAGATTACTTAAACGC
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101941 P C S CGCGCCGAGGGTATCACTTCATCTTGTCAAGGAGY
101941 T A S CATCCTCCTTGACAAGATGAAGTGATAACGTTTAAGTAATCTTTTTTCTTGTTTCACTGATCTTGAGTACTAGAAAGTCATGGA
101941 T C S CATCCTCCTTGACAAGATGAAGTGATACCGTTAAGTAATCTTTTTTCTTGTTTCACTGATCTTGAGTACTAGAAAGTCATGGA
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101950 I A AGTGTTCAAGGTACCCTTCTATATATTAACTCTTTGCTAACATATTTAATATTTAAATACT
101950 P G A CGCGCCGAGGGAGGAAAAACAATAAATTACTCGTTGG
101950 P A A CGCGCCGAGGAAGGAAAAACAATAAATTACTCGTTGG
101950 T G A TCAGCCAACGAGTAATTTATTGTTTTTCTCGTATTTAAATATTAAATATGTTAGCAAAGAGTTAATATATAGAAGGGTACCTTGAACACTGG
101950 T A A TCAGCCAACGAGTAATTTATTGTTTTTCCTTGTATTTAAATATTAAATATGTTAGCAAAGAGTTAATATATAGAAGGGTACCTTGAACACTGG
101950 I5 [GA] CAATCAGGCCTATCTGTCACCAACTTTATTTCTGGCTTCAGTTTGATAGTCAATGAAACAACTTGTTCAATGTCCCCTCCCCAGTGTTCAAGGTACCCTTCTATATATTA ACTCTTTGCTAACATATTTAATATTTAAATACTGAAGAAAAACAATAAATTACTCGTTGGCTGAGAGCTGGCTGCTGGCTGGCAGACAGGAGCGGCTGTTCTGCCCCTC TCCTGACCCTGCCTCGGCATGAGGCTCCGAGGCC
108371 I A GTGGTGATGGATTGATAGGTTGCATTGGCAACTTCCCA
108371 P C A CGCGCCGAGGCAAGTGTGGGAGCAGATAAGW
108371 P T A CGCGCCGAGGTAAGTGTGGGAGCAGATAAGAY
108371 T C A AGATTCTTATCTGCTCCCACACTTGGGGAAGTTCCCAATGCAACCTATCAATCCATCACCACCA
108371 T T A AGATTCTTATCTGCTCCCACACTTAGGGAAGTTCCCAATGCAACCTATCAATCCATCACCACCA
108371 I5 [ct] TCCTTTCCCCACCTCTCCTGGCTGGTATTCGTGGTGGTGATGGATTGATAGGTTGCATTGGGAACTTCCC[ct]AAGTGTGGGAGCAGATAAGAATCTTGAAAAAGTGCGT GGGAACTGTCCTGGTTGAGTGGGAAGCAAA
108416 I S CCATGGCGGCTGCAGCTGCTCCT
108416 P C S CGCGCCGAGGGCCTCCCGTGAAGGAY
108416 P T S CGCGCCGAGGAACCTCCCGTGAAGGACY
108416 T C S CGCAGTCCTTCACGGAGAGGCGAGCAGCTGCAGCCGCCATGGCC
108416 T T S CGCAGTCCTTCACGGAGAGTGGAGCAGCTGCAGCCGCCATGGCC
108416 I5 [ct] cctttccaatcccccaaaagatagaggaaggaaactcaacagatcctgcactcaacctcacctcaaatctgcagtccttccacgggaagg[ct]gggagcagctgcagccgccatggccaggacccca ccatactcccgcttcccggaatcccgtctccctaggacct

FIGURE 129D

SNP	OLIGO	PM	DC	OLIGO_SEQUENCE	GPCO	GPCH	SHORT_GENE_NAME
106121	I		S	AGAGGACTCCAGTCGGGAAGGAAACAGAGCT			
106121	P	C	S	ATGACGTGGCAGACGGCTGGGTTCTTGGTY			
106121	P	T	S	CGCGCCGAGGAGCTGGGTTCTTGGTY			
106121	T	C	S	GATGACCAAGAACCCAGCCGCTCTGTTTCCTTCCCGACTGGAGTCCTCTTC			
106121	T	T	S	GATGACCAAGAACCCAGCTGCTCTGTTTCCTTCCCGACTGGAGTCCTCTTC			
106121	IS	[CT]		GGCAGCTAAGACCTAAGTGAAGAAGAATTCCTCCCCTGCAAGGATGACCAAGAACCCAGC[CT]GCTCTGTTTCCTTCC CGACTGGAGTCCTCTTCTCCACTGGTAGGCACTGACCCCTGCAGA	ctg13980	1	
106129	I		A	GTGGGTCAGCACTGCTGGGTGAAGGA			
106129	P	C	A	ATGACGTGGCAGACCCACTTCACTGGCCAY			
106129	P	T	A	CGCGCCGAGGTCACTTCACTGGCCAY			
106129	T	C	A	GGGCTGGCCAGTGAAGTGGCCTTCACCCAGCAGTGCTGACCCACCG			
106129	T	T	A	GGGCTGGCCAGTGAAGTGACCTTCACCCAGCAGTGCTGACCCACCG			
106129	IS	[CT]		TTCCCGGGGCATGAGTTCATCTGCCCTCATGTCCGGTGGGTCAGCACTGCTGGGTGAAGG[CT]CACTTCACTGGCCA GCCCGGGCCCAGCCCACCACCAGACTTGCTCCCCAGAAGGAAAGGT	ctg16586	20	
106135	I		S	TTCCTTCTTCTAGAGGATTATTTGGTGTGTGTCTGCT			
106135	P	T	S	CGCGCCGAGGATGTGACCGTGTGTGTY			
106135	P	C	S	ATGACGTGGCAGACGTGTGACCGTGTGTGY			
106135	T	T	S	ATAAACACACACGGTCACATGCAGACACACACCAAATAATCCTCTAGAAGAAGGAATA			
106135	T	C	S	ATAAACACACACGGTCACACGCAGACACACACCAAATAATCCTCTAGAAGAAGGAATA			
106135	IS	[TC]		CTAACAACCCAAAACTCTAAACACGGAACTGTTTCCTTTCAATAAACACACACGGTCACA[TC]GCAGACACACACCAAA TAATCCTCTAGAAGAAGGAATATATACTAAAAAGTGAGATGTCT	ctg16586	20	
106138	I		A	TGAGTGACATCACAGCCATCTGAAGTTTTACACACGAACA			
106138	P	C	A	ATGACGTGGCAGACCTCCTCCTGTTTGTCCTY			
106138	P	T	A	CGCGCCGAGGTTCCTCCTGTTTGTCCTY			
106138	T	C	A	CCTGAGGACAAACAGGAGGAGGTTCGTGTGTGTAAAACTTCAGATGGCTGTGATGTCACTCAGA			
106138	T	T	A	CCTGAGGACAAACAGGAGGAAGTTCGTGTGTAAAACTTCAGATGGCTGTGATGTCACTCAGA			
106138	IS	[CT]		ATGGCTGCATTGGTACACATCTGAGTGACATCACAGCCATCTGAAGTTTTACACACGAAC[CT]TCCTCCTGTTTGTCCT CAGGCGGTCATGTGAATAAACACTTTTTTGCCTCTTAGTTTTCA	ctg16586	20	
106253	I		A	GGGGCTCTCAGGCTAGGAGTTTCACACACAATT			
106253	P	G	A	ATGACGTGGCAGACGACAGGCTGCTGGGY			
106253	P	C	A	CGCGCCGAGGCACAGGCTGCTGGGY			
106253	T	G	A	GTCCCCCAGCAGCCTGTCATTGTGTGTGAAACTCCTAGCCTGAGAGCCCCAC			
106253	T	C	A	GTCCCCCAGCAGCCTGTGATTGTGTGTGAAACTCCTAGCCTGAGAGCCCCAC			
106253	IS	[GC]		TCTCCCAACACTAGTGCTGACCAGAGGTGGGGCTCTCAGGCTAGGAGTTTCACACACAAT[GC]ACAGGCTGCTGGGG GACATTGCAGGACCCCTTTTCCTCTCCTCTCCATGCTAGAAGCCAG	ctg16586	20	
106254	I		A	CTGGGGGACATTGCAGGACCCCTTTTCA			
106254	P	C	A	ATGACGTGGCAGACCTCTCCTCTCCATGCTAGY			
106254	P	T	A	CGCGCCGAGGTTCTCCTCTCCATGCTAGY			
106254	T	C	A	GCTTCTAGCATGGAGAGGAGAGGAAAAGGGGTCCTGCAATGTCCCCCAGCA			
106254	T	T	A	GCTTCTAGCATGGAGAGGAGAAGAAAAGGGGTCCTGCAATGTCCCCCAGCA			
106254	IS	[CT]		CAGGCTAGGAGTTTCACACACAATGACAGGCTGCTGGGGGACATTGCAGGACCCCTTTTC[CT]TCTCCTCTCCATGCT AGAAGCCAGCCCTAGGCAGCTGCAGTTACTCCCTGTGACTCAGCA	ctg14210	12	
106761	I		S	GGCCTCACCTTGCAGGCAGTGCAA			
106761	P	G	S	ATGACGTGGCAGACCGTGCTGGTCACAATTY			
106761	P	A	S	CGCGCCGAGGTGTGCTGGTCACAATTGY			
106761	T	G	S	AGGACAATTGTGACCAGCACGTGCACTGCCTGCAAGGTGAGGCCGG			
106761	T	A	S	AGGACAATTGTGACCAGCACATGCACTGCCTGCAAGGTGAGGCCGG			
106761	IS	[GA]		CTGGTGAACTGTGACCGTGATGATCCGAGCTGTGATGTCCAGGACAATTGTGACCAGCAC[GA]TGCACTGCCTGCAA GGTGAGGCCGGGGCAGCCTGAGTCCCTGGGTGTCCAGGGTCACTGC	ctg14210	12	
107211	I		A	GCAGGCAGAAGCAGGCAGAGCTCAATTTCATAT			
107211	P	C	A	CGCGCCGAGGCACAAGAAAACCAAAAGGATGY			
107211	P	G	A	ATGACGTGGCAGACGACAAGAAAACCAAAAGGATGY			
107211	T	C	A	GCCTCATCCTTTTGGTTTTCTTGTGTATGAAATTGAGCTCTGCCTGCTTCTGCCTGCTT			
107211	T	G	A	GCCTCATCCTTTTGGTTTTCTTGTCTATGAAATTGAGCTCTGCCTGCTTCTGCCTGCTT			
107211	IS	[CG]		CCAAATTACCATTAAGTACATCTGTGAAGCAGGCAGAAGCAGGCAGAGCTCAATTTCATA[CG]ACAAGAAAACCAAAAG GATGAGGCCATTAACAAGTCATTTTCTGAAGGTCCACATGAAAG	ctg14210	12	
107259	I		A	CCCAGTATAGAGAGACTGTCACTAGGAACATTGTATTGATTTATTT			
107259	P	C	A	CGCGCCGAGGCAGGTCATTGAGATCTTCTAGY			
107259	P	G	A	ATGACGTGGCAGACGAGGTCATTGAGATCTTCTAGY			
107259	T	C	A	ACATCTAGAAGATCTCAATGACCTGAATAAATCAATACAATGTTCCTAGTGACAGTCTCTCTATACTGGGAA			
107259	T	G	A	ACATCTAGAAGATCTCAATGACCTCAATAAATCAATACAATGTTCCTAGTGACAGTCTCTCTATACTGGGAA			
107259	IS	[CG]		CGGGGTTAAAGTTTTCCCAGTATAGAGAGACTGTCACTAGGAACATTGTATTGATTTATT[CG]AGGTCATTGAGATCTT CTAGATGTATTTTAAAAAGAATGCTTTTTGGTTATGTGTTGCTA			FLJ21212
107262	I		A	GAGAAATAGTGAAAGGGGGATAAAAATAAAGTCCAGTTTCTATAATAGAAAAAGC			
107262	P	T	A	CGCGCCGAGGTCTGGATGCACATAGGATY			
107262	P	G	A	ATGACGTGGCAGACGCTGGATGCACATAGGY			
107262	T	T	A	CGGGATCCTATGTGCATCCAGACTTTTTCTATTATAGAAACTGGACTTTATTTTTATCCCCCTTTCACTATTTCTCAG			
107262	T	G	A	CGGGATCCTATGTGCATCCAGCCTTTTTCTATTATAGAAACTGGACTTTATTTTTATCCCCCTTTCACTATTTCTCAG			
107262	IS	[TG]		AGAACTGAGAAATAGTGAAAGGGGGATAAAAATAAAGTCCAGTTTCTATAATAGAAAAAG[TG]CTGGATGCACATAGGA TCCCGGGAGTCTGTGGTAGATTATTTTCTTTGTTGTGCCGCACT			
107295	I		S	CCTCACAGGATCTGCCCTCCTGCTTCTT			
107295	P	T	S	CGCGCCGAGGATCTGGCCCTATCCTACY			
107295	P	C	S	ATGACGTGGCAGACGTCTGGCCCTATCCTACY			
107295	T	T	S	AAAAGTAGGATAGGGCCAGATAGAAGCAGGAGGGCAGATCCTGTGAGGGG			
107295	T	C	S	AAAAGTAGGATAGGGCCAGACAGAAGCAGGAGGGCAGATCCTGTGAGGGG			
107295	IS	[TC]		CACTACTTTCTGTGGGGCTCAAGACAGGTGGGAGTTAGAAAAAAGTAGGATAGGGCCAGA[TC]AGAAGCAGGAGGGC AGATCCTGTGAGGGGTGGAGTAATGGCTAATGGCCCTGGGGTCCTA	ctg22fin4	22	
107354	I		S	TGCTCCAAACAGTTGGAAATGTGGGTCCCAT			
107354	P	C	S	ATGACGTGGCAGACGGCTTTGGAAAGAAATGAGY			
107354	P	T	S	CGCGCCGAGGAGCTTTGGAAAGAAATGAGGY			
107354	T	C	S	TCTGCCTCATTTCTTTCCAAAGCCTGGGACCCACATTTCCAACTGTTTGGAGCACT			
107354	T	T	S	TCTGCCTCATTTCTTTCCAAAGCTTGGGACCCACATTTCCAACTGTTTGGAGCACT			
107354	IS	[CT]		TGATTCTTCTTGTGGATAACTTCCAAACCTACACCTTTCTGCCTCATTTCTTTCCAAAGC[CT]TGGGACCCACATTTCCA ACTGTTTGGAGCACTTTATCACAGGGCCCTCAAAATTATCATT	ctg22fin4	22	
107418	I		S	TGGCCGGGGCTCTCTGTCTGGGT			
107418	P	G	S	ATGACGTGGCAGACCCCAGCTGGCCAGY			
107418	P	T	S	CGCGCCGAGGACCAGCTGGCCAGY			
107418	T	G	S	ATAACTGGCCAGCTGGGCCCAGACAGAGAGCCCCGGCCACC			
107418	T	T	S	ATAACTGGCCAGCTGGTCCCAGACAGAGAGCCCCGGCCACC			
107418	IS	[GT]		TGCCAGGATAATTCCACTATGGCACTCAGGGGCCCTGAGGCAGGATAACTGGCCAGCTGG[GT]CCCAGACAGAGAGC CCCGGCCACCTGGATGCCAGTAATGGGGCCATTTCCCAGGAGGCTA	ctg22fin4	22	
107781	I		A	GTCCTGACTCTGATGTGGGCATCTTATCTACAT			
107781	P	G	A	ATGACGTGGCAGACGAATGGTATTCACAGACACAY			
107781	P	A	A	CGCGCCGAGGAAATGGTATTCACAGACACAY			

FIGURE 129D

107781 T	G	A	TATGTGTGTCTGTGAATACCATTCTGTAGATAAGATGCCCACATCAGAGTCAGGACAA				
107781 T	A	A	TATGTGTGTCTGTGAATACCATTTTGTAGATAAGATGCCCACATCAGAGTCAGGACAA				
107781 IS	[GA]		ACTGAAGGTGATTTCGTATCTTCTTTTTGTCCTGACTCTGATGTGGGCATCTTATCTACA[GA]AATGGTATTCACAGAC ACACATATGAGAACATTTATTACTGTAAATTATAAAAACATACA				
107936 I		S	GTGAGTGGTCGCCGATCGCCCCT				
107936 P	C	S	ATGACGTGGCAGACGAGAGTCAGGTCCTGGY				
107936 P	T	S	CGCGCCGAGGAAGAGTCAGGTCCTGGY				
107936 T	C	S	CGCCCCAGGACCTGACTCTCGGGGGCGATCGGCGACCACTCACCT				
107936 T	T	S	CGCCCCAGGACCTGACTCTTGGGGCGATCGGCGACCACTCACCT				
107936 IS	[CT]		GAGAGCGAAGTTAGGTGGTGCAGGAAAAGAGCCTTTATGCGCGCCCCAGGACCTGACTCT[CT]GGGGCGATCGGCG ACCACTCACCTTGTGCCTGCGCCTCCATGGTGGCTGACTTCGAGCTG	ctg17326	12	
109381 I		A	CCGAGGCTGCGGCAGCTAAAGGTCA				
109381 P	C	A	ATGACGTGGCAGACCGCAATGACTCCTGTGY				
109381 P	T	A	CGCGCCGAGGTGCAATGACTCCTGTGTY				
109381 T	C	A	CACCACACAGGAGTCATTGCGGACCTTTAGCTGCCGCAGCCTCGGAA				
109381 T	T	A	CACCACACAGGAGTCATTGCAGACCTTTAGCTGCCGCAGCCTCGGAA				
109381 IS	[CT]		TCCTTCATCTACTATGAGAACATGCTGCTGGGGGTTCCGAGGCTGCGGCAGCTAAAGGTC[CT]GCAATGACTCCTGT GTGGTGCATGAAGACTTCCGGGAGGACATTCTGAGCTGCTATGATG	ctg17326	12	PKD2L1
110078 I		S	CTGCTCCTGGCCAGCACTAGCCCC				
110078 P	C	S	ATGACGTGGCAGACGACACTGCTCTGGCCY				
110078 P	A	S	CGCGCCGAGGTACACTGCTCTGGCCY				
110078 T	C	S	GGGTGGCCAGAGCAGTGTCGGGCTAGTGCTGGCCAGGAGCAGGC				
110078 T	A	S	GGGTGGCCAGAGCAGTGTAGGGCTAGTGCTGGCCAGGAGCAGGC				
110078 IS	[CA]		AAAGGATGGGTCAGGAAGGGTCAGCCAGGTGAGCGCCAAGTGGGGTGGCCAGAGCAGTGT[CA]GGGCTAGTGCTG GCCAGGAGCAGGCTGGGTGCTCACCATGTTCCGAGGGTTGGACATGAG	ctg17326	12	
45119 I		A	AACAATACCACACTACTCATGCTTGTTAATAGGCAGGAGAATAGACATAAT				
45119 P	A	A	CGCGCCGAGGAAGGTTATACTTGGGTTTAAACCT				
45119 P	G	A	CGCGCCGAGGGAGGTTATACTTGGGTTTAAACCT				
45119 T	A	A	GGTGAGGTTTAAACCCAAGTATAACCTTTTATGTCTATTCTCCTGCCTATTAACAAGCATGAGTAGTGTGGTATTGTT				
45119 T	G	A	GGTGAGGTTTAAACCCAAGTATAACCTCTTATGTCTATTCTCCTGCCTATTAACAAGCATGAGTAGTGTGGTATTGTT				
45119 IS	[AG]		aacaataccacactactcatgcttgttaataggcaggagaatagacataa[AG]aggttatacttgggttaaacctcacctgtttatatttagctagttttt	ctg13206	14		
45277 I		S	CTAAAGTTGCCTTACAAATAACTGTGAGAAAGTAAATGTTACATCAACACT				
45277 P	C	S	CGCGCCGAGGGGCGTATAAAAGCAACAAGGY				
45277 P	T	S	CGCGCCGAGGAGCGTATAAAAGCAACAAGGCY				
45277 T	C	S	TTTAGCCTTGTTGCTTTTATACGCCGTGTTGATGTAACATTTACTTTCTCACAGTTATTTGTAAGGCAACTTTAG				
45277 T	T	S	TTTAGCCTTGTTGCTTTTATACGCTGTGTTGATGTAACATTTACTTTCTCACAGTTATTTGTAAGGCAACTTTAG				
45277 IS	[CT]		TCCCTAACCTTAAAGCAATTGTATTTTTTAGCCTTGTTGCTTTTATACGC[CT]GTGTTGATGTAACATTTACTTTCTCAC AGTTATTTGTAAGGCAACTTTAG	ctg13206	14		
45280 I		A	CCAACTACATCAAGACATCATAGCAGACAGGCAGAATGTTCCAT				
45280 P	G	A	CGCGCCGAGGGAAACAGTCCTTTAGGCATTCT				
45280 P	A	A	CGCGCCGAGGAAAACAGTCCTTTAGGCATTCT				
45280 T	G	A	GAACAGAATGCCTAAAGGACTGTTTCTGGAACATTCTGCCTGTCTGCTATGATGTCTTGATGTAGTTGGCG				
45280 T	A	A	GAACAGAATGCCTAAAGGACTGTTTTTGGAACATTCTGCCTGTCTGCTATGATGTCTTGATGTAGTTGGCG				
45280 IS	[GA]		AACCTCGCCAACTACATCAAGACATCATAGCAGACAGGCAGAATGTTCCA[GA]AACAGTCCTTTAGGCATTCTGTTCT TCCCTGGAATCTGCTTGCTTTCTT				
45438 I		S	AGGAATCCAAGATTTGCTATGCCTCATATCATAAATGAAAAGGAAATACTT				
45438 P	C	S	CGCGCCGAGGGAAGATAATTACTTAAAACCTATCCAACAG				
45438 P	T	S	CGCGCCGAGGAAAGATAATTACTTAAAACCTATCCAACAG				
45438 T	C	S	AATTCTGTTGGATAGGTTTTAAGTAATTATCTTCAGTATTTCCTTTTCATTTATGATATGAGGCATAGCAAATCTTGGAT TCCT				
45438 T	T	S	AATTCTGTTGGATAGGTTTTAAGTAATTATCTTTAGTATTTCCTTTTCATTTATGATATGAGGCATAGCAAATCTTGGAT TCCT				
45438 IS	[CT]		AAACTTACACCGAAGATAATTCTGTTGGATAGGTTTTAAGTAATTATCTTT[CT]AGTATTTCCTTTTCATTTATGATATGAG GCATAGCAAATCTTGGATTCCT	ctg12325	11		
45440 I		S	GGCTTTCTTCCTGAGTTCTAGCCACCCCATATTGCATT				
45440 P	C	S	CGCGCCGAGGGGGCCAGAGAGTGCT				
45440 P	T	S	CGCGCCGAGGAGGCCAGAGAGTGCTC				
45440 T	C	S	CTAAGAGCACTCTCTGGCCCATGCAATATGGGGTGGCTAGAACTCAGGAAGAAAGCCAC				
45440 T	T	S	CTAAGAGCACTCTCTGGCCTATGCAATATGGGGTGGCTAGAACTCAGGAAGAAAGCCAC				
45440 IS	[CT]		GGGTAAAAGCTTCACTTATGTGGCTTTTCCTCTAAGAGCACTCTCTGGCC[CT]ATGCAATATGGGGTGGCTAGAACTC AGGAAGAAAGCCACAGTCTTATTGA	ctg12325	11		
60786 I		S	CAACCTTTGTGCTTGAATAAACTCTAAACTACAATCTCACCCTTTTGATTT				
60786 P	C	S	CGCGCCGAGGGTTTTAGGTTCACGCTAAATATGTAC				
60786 P	T	S	CGCGCCGAGGATTTTAGGTTCACGCTAAATATGTACT				
60786 T	C	S	TTTAAGTACATATTTAGCGTGAACCTAAAACAATCAAAAGGGTGAGATTGTAGTTTAGAGTTTATTCAAGCACAAAGGT TG				
60786 T	T	S	TTTAAGTACATATTTAGCGTGAACCTAAAATAATCAAAAGGGTGAGATTGTAGTTTAGAGTTTATTCAAGCACAAAGGTT G				
60786 IS	[CT]		atcaattttcctaggaatttaagtacatattagcgtgaacctaaaa[CT]aatcaaaagggtgagattgtagtttagagtttattcaagcacaaaggttg	ctg15064	7		
60787 I		S	TTTAGGTACCATCAGTCTCTTGAATGTATAAACAGACTGAATTCATAAACA				
60787 P	A	S	CGCGCCGAGGTCCTACTGAAACTAACATGCTTT				
60787 P	G	S	CGCGCCGAGGCCCTACTGAAACTAACATGCTT				
60787 T	A	S	TTACAAAGCATGTTAGTTTCAGTAGGAGTTTATGAATTCAGTCTGTTTATACATTCAAGAGACTGATGGTACCTAAA				
60787 T	G	S	TTACAAAGCATGTTAGTTTCAGTAGGGGTTTATGAATTCAGTCTGTTTATACATTCAAGAGACTGATGGTACCTAAA				
60787 IS	[AG]		catgatcctgatttgtttctactacaaagcatgttagtttcagtagg[AG]gtttatgaatttcagtctgtttatacattcaagagactgatggtacctaaa	ctg15064	7		
60790 I		A	GCCTCCGTACCACTCATACACTGGGGAGGTAT				
60790 P	C	A	CGCGCCGAGGCGGGAAGTGACTCAAATTGC				
60790 P	A	A	CGCGCCGAGGAGGGAAGTGACTCAAATTGC				
60790 T	C	A	TTGAGCAATTTGAGTCACTTCCCGTACCTCCCCAGTGTATGAGTGGTACGGAGGCCC				
60790 T	A	A	TTGAGCAATTTGAGTCACTTCCCTTACCTCCCCAGTGTATGAGTGGTACGGAGGCCC				
60790 IS	[CA]		accccagttacggatgaggcctccgtaccactcatacactgggggtggta[CA]gggaagtgactcaaattgctcaattctgtagcctccagaaatccaaaact	ctg15064	7		
60791 I		A	TGGGCATTATTCCAAAGCCACTTTCATGGCTCCAT				
60791 P	G	A	CGCGCCGAGGGGCCTCTTTCCTGTGGA				
60791 P	A	A	CGCGCCGAGGAGCCTCTTTCCTGTGGAT				
60791 T	G	A	GTGCATCCACAGGAAAGAGGCCTGGAGCCATGAAAGTGGCTTTGGAATAATGCCCAAT				
60791 T	A	A	GTGCATCCACAGGAAAGAGGCTTGGAGCCATGAAAGTGGCTTTGGAATAATGCCCAAT				

FIGURE 129D

60791	IS	[GA]		ctttcctticiatatgggcattatccaaagccacttca#ggctccs[GA]gcctctttcctgtggatgcactgcactataatttaatcagctctattgtt		
60792	I		S	TGCTGCAGATTCCATAATCCTGCAACATGTATACAAATAGGACAGTATTAA		
60792	P	A	S	CGCGCCGAGGTTGAAATCTTTTTGAGTTTTCCCG		
60792	P	G	S	CGCGCCGAGGCTGAAATCTTTTTGAGTTTTCCCG		
60792	T	A	S	GCTACGGGAAAACTCAAAAAGATTTCAATAATACTGTCCTATTTGTATACATGTTGCAGGATTATGGAATCTGCAGCA		
60792	T	G	S	GCTACGGGAAAACTCAAAAAGATTTCAGTAATACTGTCCTATTTGTATACATGTTGCAGGATTATGGAATCTGCAGCA		
60792	IS	[AG]		aaaatactttaccticaagagagctacgggaaaactcaaaaagatttca[AG]taatactgtcctatttgtatacatgttgcaggattatggaatctgcagca	ctg15131	10
60821	I		S	CTCTGCCACCAAACTCAAGTTGAGCTGACTCAGTAAAATTAACTGC		
60821	P	A	S	CGCGCCGAGGTTCCAAGCCAGTAGCTTTATC		
60821	P	T	S	CGCGCCGAGGATCCAAGCCAGTAGCTTTATC		
60821	T	A	S	GTAAGATAAAGCTACTGGCTTGGAACAGTTAATTTTACTGAGTCAGCTCAACTTGAGTTTGGTGGCAGAGGG		
60821	T	T	S	GTAAGATAAAGCTACTGGCTTGGATCAGTTAATTTTACTGAGTCAGCTCAACTTGAGTTTGGTGGCAGAGGG		
60821	IS	[at]		ttaatatggaaatcatgacttttggtaagataaagctactggcttggs[at]cagttaatttactgagtcagctcaactgagtttggtggcagagggtgg	ctg16263	1
60823	I		S	CCACTGGGAGGCATGCCCACCTGAT		
60823	P	T	S	CGCGCCGAGGATTTCCATGGTAGGCTTCC		
60823	P	C	S	CGCGCCGAGGGTTTCCATGGTAGGCTTCC		
60823	T	T	S	TTTGGGAAGCCTACCATGGAAATTCAGGTGGGCATGCCTCCCAGTGGAA		
60823	T	C	S	TTTGGGAAGCCTACCATGGAAACTCAGGTGGGCATGCCTCCCAGTGGAA		
60823	IS	[TC]		ccatttgaggatcaacttgggacaaacttgggaagcctaccatggaaa[TC]tcaggtgggcatgcctcccagtggaatcctagttgggcagaactgcttcc		
60825	I		A	GCTGGGTAAAGTAACATAGGCTAGGGAAAAAGAGATGATCCAGAAAAAGTT		
60825	P	A	A	CGCGCCGAGGACAGAAATGCTCAGATTTCAGAA		
60825	P	G	A	CGCGCCGAGGGCAGAAATGCTCAGATTTCAG		
60825	T	A	A	ACAGTTCTGAAATCTGAGCATTTCTGTACTTTTTCTGGATCATCTCTTTTTCCCTAGCCTATGTTACTTTACCCAGC		
60825	T	G	A	ACAGTTCTGAAATCTGAGCATTTCTGCACTTTTTCTGGATCATCTCTTTTTCCCTAGCCTATGTTACTTTACCCAGC		
60825	IS	[AG]		gctgggtaaagtaacataggctagggaaaaagagatgatccagaaaaagt[AG]cagaaatgctcagatttcagaactgtttcagagaaagaatgaaggacata	ctg2712	15
60826	I		S	TGTGAGTTATGAGGTGCATGATTCAGGCCATTCCTTTCAAT		
60826	P	G	S	CGCGCCGAGGCCACAACCACAGATGCAA		
60826	P	T	S	CGCGCCGAGGACACAACCACAGATGCAAA		
60826	T	G	S	GTCTTTTGCATCTGTGGTTGTGGTTGAAAGGAATGGCCTGAATCATGCACCTCATAACTCACAGA		
60826	T	T	S	GTCTTTTGCATCTGTGGTTGTGTTTGAAAGGAATGGCCTGAATCATGCACCTCATAACTCACAGA		
60826	IS	[GT]		acaaggctgcaagttactcagtccacgtctttlgcatctgtggttgtg[GT]ttgaaaggaatggcctgaatcatgcacctcataactcacagagtggcccc	ctg19030	5
60827	I		A	AGAGTGGACAGAACGCCTATGAGAACATGTGCCAGC		
60827	P	T	A	CGCGCCGAGGTCTGTATGTTTCTGGTGCTG		
60827	P	A	A	CGCGCCGAGGACTGTATGTTTCTGGTGCTG		
60827	T	T	A	AGATCAGCACCAGAAACATACAGACTGGCACATGTTCTCATAGGCGTTCTGTCCACTCTCC		
60827	T	A	A	AGATCAGCACCAGAAACATACAGTCTGGCACATGTTCTCATAGGCGTTCTGTCCACTCTCC		
60827	IS	[TA]		actggtgggacggggagagtggacagaacgcctatgagaacatgtgccag[TA]ctgtatgtttctggtgctgatctcctgactaaacagactttatatatta	ctg13446	1
60828	I		A	GGCATGGGGTTGAGAAGTCATTTGCCTGGGAATTTCA		
60828	P	C	A	CGCGCCGAGGCGCCATGTGAAAGGAAGC		
60828	P	T	A	CGCGCCGAGGTGCCATGTGAAAGGAAGC		
60828	T	C	A	ATTTGCTTCCTTTCACATGGCGGAAATTCCCAGGCAAATGACTTCTCAACCCCATGCCTC		
60828	T	T	A	ATTTGCTTCCTTTCACATGGCAGAAATTCCCAGGCAAATGACTTCTCAACCCCATGCCTC		
60828	IS	[CT]		caggtagagctggaggcatggggtgagagtcattgcctgggaatttc[CT]gccatgtgaaaggaagcaaatgaggcctctaaagatgactagaggcatatg	ctg13446	1
60831	I		S	TCTCTGGCAAATCCTTTCGTACTGTGATTTATTAAATTACACAATTGTTTA		
60831	P	G	S	CGCGCCGAGGCCCAAGTCCCTGTGACC		
60831	P	A	S	CGCGCCGAGGTCCAAGTCCCTGTGACC		
60831	T	G	S	TTTGGGTCACAGGGACTTGGGAAACAATTGTGTAATTTAATAAATCACAGTACGAAAGGATTTGCCAGAGA		
60831	T	A	S	TTTGGGTCACAGGGACTTGGAAAACAATTGTGTAATTTAATAAATCACAGTACGAAAGGATTTGCCAGAGA		
60831	IS	[GA]		cctgtgagggactcagccagtttcctgacttlgggtcacagggacttgg[GA]aaacaattgtgtaatttaataaatcacagtacgaaaggatttgccagaga	ctg13446	1
60861	I		S	TTGCTGCGTATTTTTCAGTTCTTAAATATTCTTTCTCCAAGGGTGTTTCCT		
60861	P	C	S	CGCGCCGAGGGTGATATTCTGCTTTCCCGTAG		
60861	P	G	S	CGCGCCGAGGCTGATATTCTGCTTTCCCGTAG		
60861	T	C	S	AAGTCTACGGGAAAGCAGAATATCACGGAAACACCCTTGGAGAAAGAATATTTAAGAACTGAAAAATACGCAGCAA		
60861	T	G	S	AAGTCTACGGGAAAGCAGAATATCAGGGAAACACCCTTGGAGAAAGAATATTTAAGAACTGAAAAATACGCAGCAA		
60861	IS	[CG]		atgagagaatatagggaggagaacctaagtctacgggaaagcagaatatca[CG]ggaaacaccctlggagaaagaatatttaagaactgaaaaatacgcagcaa	ctg14391	11
60867	I		A	CAAACCTGCCTTTTAATGACAGTATTGTGAGGTCACCTGGACT		
60867	P	A	A	CGCGCCGAGGACACTAATTTTAAATATAGCAAACGGTAA		
60867	P	G	A	CGCGCCGAGGGCACTAATTTTAAATATAGCAAACGGT		
60867	T	A	A	CATCTTACCGTTTGCTATATTTAAAATTAGTGTGTCCAGGTGACCTCACAATACTGTCATTAAAAGGCAGGTTTGTA		
60867	T	G	A	CATCTTACCGTTTGCTATATTTAAAATTAGTGCGTCCAGGTGACCTCACAATACTGTCATTAAAAGGCAGGTTTGTA		
60867	IS	[AG]		tcatattacaaacctgccttttaatgacagtattgtgaggtcacctggac[AG]cactaatttaaatatagcaaacggtaagatgaaatgatttatttacatg		
60868	I		S	CCAGGGGTTTCCATGAAGCCAAAGGATGCTGAATTAATTTCA		
60868	P	G	S	CGCGCCGAGGCTAAAGTCACAAATAAAACCAGGGY		
60868	P	A	S	CGCGCCGAGGTTAAAGTCACAAATAAAACCAGGGAY		
60868	T	G	S	CTCTTCCCTGGTTTTATTTGTGACTTTAGGAAATTAATTCAGCATCCTTTGGCTTCATGGAAACCCCTGGGA		
60868	T	A	S	CTCTTCCCTGGTTTTATTTGTGACTTTAAGAAATTAATTCAGCATCCTTTGGCTTCATGGAAACCCCTGGGA		
60868	IS	[GA]		cgtctgagctgggagtcctggctctcccctggttttattlgtgacttta[GA]gaaattaatticagcatcctttggcttcatggaaacccctgggaataaga	ctg13206	14
60880	I		A	CCAGAACTACTACTTTCCTCTTTTTCCGGGAGAGAAGACTTATGTAAATGT		
60880	P	A	A	CGCGCCGAGGAGTTTGCAAGGCTCTGC		
60880	P	G	A	CGCGCCGAGGGGTTTGCAAGGCTCTGC		
60880	T	A	A	AAGAGCAGAGCCTTGCAAACTCATTTACATAAGTCTTCTCTCCCGGAAAAAGAGGAAAGTAGTAGTTCTGG		

FIGURE 129D

60880 T	G	A	AAGAGCAGAGCCTTGCAAACCCATTTACATAAGTCTTCTCTCCCGGAAAAAGAGGAAAGTAGTAGTTCTGG			
60880 IS	[AG]		ccagaactactacttcctcttttccgggagagaagactatgtaaatg[AG]gtttgcaaggctctgctcttgtttgaaaaacacatctgcacatgtccgt	ctg53	14	
60881 I		A	AGGTTAGACAACAGGAAAAGCAGCTGAGATAAGCCACGT			
60881 P	A	A	CGCGCCGAGGATTTCCATTGTTTTTGGAAGCC			
60881 P	G	A	CGCGCCGAGGGTTTCCATTGTTTTTGGAAGCC			
60881 T	A	A	GAATGGCTTCCAAAAACAATGGAAATCGTGGCTTATCTCAGCTGCTTTTCCTGTTGTCTAACCTCC			
60881 T	G	A	GAATGGCTTCCAAAAACAATGGAAACCGTGGCTTATCTCAGCTGCTTTTCCTGTTGTCTAACCTCC			
60881 IS	[AG]		tggaacccagggaggttagacaacaggaaaagcagctgagataagccacg[AG]tttccattgttttggaagccatttcctgggccttggctgtcttgaatat	ctg15944	11	
60884 I		A	CAGCCTCGCAATTGATGGGAAATAGGTGATTATACAACA			
60884 P	C	A	CGCGCCGAGGCGGGATATAGGATCAGAGTGG			
60884 P	T	A	CGCGCCGAGGTGGGATATAGGATCAGAGTGG			
60884 T	C	A	TAGCCCACTCTGATCCTATATCCCGGTTGTATAATCACCTATTTCCCATCAATTGCGAGGCTGGA			
60884 T	T	A	TAGCCCACTCTGATCCTATATCCCAGTTGTATAATCACCTATTTCCCATCAATTGCGAGGCTGGA			
60884 IS	[CT]		cacttttatctccagcctcgcaatgatgggaaatagggaatagcacaac[CT]gggatataggatcagagtgggctagtgatgtgctcacagtatctcagctg	ctg22fin4	22	
60923 I		A	AGCTGGAATCAGATTTGGATAATGGAAAAAGCAGTTTGCTATCATTATTCT			
60923 P	C	A	CGCGCCGAGGCACCCCATGGAGGATAGAT			
60923 P	A	A	CGCGCCGAGGAACCCCATGGAGGATAGATT			
60923 T	C	A	GATGAATCTATCCTCCATGGGGTGGAATAATGATAGCAAACTGCTTTTTCCATTATCCAAATCTGATTCCAGCT			
60923 T	A	A	GATGAATCTATCCTCCATGGGGTTGAATAATGATAGCAAACTGCTTTTTCCATTATCCAAATCTGATTCCAGCT			
60923 IS	[CA]		agctggaatcagatttggataatggaaaaagcagtttgctatcattatc[CA]acccatggaggatagatticatccctaagaaaatcagagcattgttagga			
60925 I		A	AAACTTAAGACAGAATTAGATTTCACAGCAGTCCCTGTGGACTTTTTTAAT			
60925 P	A	A	CGCGCCGAGGATCTAATTAATGGCATTCCTTGATTG			
60925 P	G	A	CGCGCCGAGGGTCTAATTAATGGCATTCCTTGATTG			
60925 T	A	A	TATCCAATCAAGGAATGCCATTAATTAGATTTAAAAAAGTCCACAGGGACTGCTGTGAAATCTAATTCTGTCTTAAGTTT			
60925 T	G	A	TATCCAATCAAGGAATGCCATTAATTAGACTTAAAAAAGTCCACAGGGACTGCTGTGAAATCTAATTCTGTCTTAAGTTT			
60925 IS	[AG]		aaacttaagacagaattagatticacagcagtccctgtggacttttaa[AG]tctaattaatggcattccttgatggataaagacaaaacactcgcctgga	MULTIPLE	MULTIPLE	
60929 I		A	TGAGTGGGATGCTTGCTGGCTGTAGAATTTGGAATAGAAATACTT			
60929 P	A	A	CGCGCCGAGGATTTCTCAGATTCATTACTCTTCTGAG			
60929 P	G	A	CGCGCCGAGGGTTTCTCAGATTCATTACTCTTCTGA			
60929 T	A	A	GCAACTCAGAAGAGTAATGAATCTGAGAAATAGTATTTCTATTCCAAATTCTACAGCCAGCAAGCATCCCACTCAAA			
60929 T	G	A	GCAACTCAGAAGAGTAATGAATCTGAGAAACAGTATTTCTATTCCAAATTCTACAGCCAGCAAGCATCCCACTCAAA			
60929 IS	[ag]		gaccttgagtgggagcttgctggctgtagaatttggaatagaaatact[ag]tttctcagatcattactcttctgagttgcatctttctgaagtcagtgtg	MULTIPLE	22	
60931 I		A	CATACTTTTTTTTTTTTTTAAAGGGACCCTGGGGCATCCT			
60931 P	C	A	CGCGCCGAGGCATTGGCTCAGAAAATCACTTG			
60931 P	G	A	CGCGCCGAGGGATTGGCTCAGAAAATCACTTG			
60931 T	C	A	AGAGCAAGTGATTTTCTGAGCCAATGGGATGCCCCAGGGTCCCTTTAAAAAAAAAAAAAAAGTATGTT			
60931 T	G	A	AGAGCAAGTGATTTTCTGAGCCAATCGGATGCCCCAGGGTCCCTTTAAAAAAAAAAAAAAAGTATGTT			
60931 IS	[cg]		taatcaaacaacatacttttttttttttaaagggaccctggggcatcc[cg]attggctcagaaaatcacttgctcttcaaactcttacagccatttctat	MULTIPLE	MULTIPLE	
60952 I		S	CGGCTGTGAGGGCAGTGGAGTGTAGCTAA			
60952 P	G	S	CGCGCCGAGGCGAGGGTTGGCTTTGTG			
60952 P	A	S	CGCGCCGAGGTGAGGGTTGGCTTTGTG			
60952 T	G	S	TTTTCACAAAGCCAACCCTCGTAGCTACACTCCACTGCCCTCACAGCCGAA			
60952 T	A	S	TTTTCACAAAGCCAACCCTCATAGCTACACTCCACTGCCCTCACAGCCGAA			
60952 IS	[GA]		gtccattataatggaaagaagagcttgccttttcacaaagccaaccctc[GA]tagctacactccactgcccctcacagccgaacttcttcacacttgctatgt	ctg22fin4	22	
60964 I		A	CCCACAAAACAATCGTCAGACGCAAGACGTCCATT			
60964 P	A	A	CGCGCCGAGGAAGAGTCCAGGAAAGAGCT			
60964 P	G	A	CGCGCCGAGGGAGAGTCCAGGAAAGAGCT			
60964 T	A	A	CTCCAGCTCTTTCCTGGACTCTTATGGACGTCTTGCGTCTGACGATTGTTTTGTGGGGC			
60964 T	G	A	CTCCAGCTCTTTCCTGGACTCTCATGGACGTCTTGCGTCTGACGATTGTTTTGTGGGGC			
60984 IS	[AG]		accatcacaggatggccccacaaaacaatcgtcagacgcaagacgtccat[AG]agagtccaggaaagagctggaggagacgagtcacgccaggtttagctcc	ctg22fin4	22	
61064 I		S	AGGCCACGGAAACAATGGGGGCTCACT			
61064 P	T	S	CGCGCCGAGGAGCATGGCCAGAAACAAG			
61064 P	C	S	CGCGCCGAGGGGCATGGCCAGAAACAA			
61064 T	T	S	ATCACTTGTTTCTGGCCATGCTGTGAGCCCCCATTGTTTCCGTGGCCTCT			
61064 T	C	S	ATCACTTGTTTCTGGCCATGCCGTGAGCCCCCATTGTTTCCGTGGCCTCT			
61064 IS	[TC]		ctgccttgccactataaccigtictigccatcactigttictggccatgc[TC]gtgagccccccattgtttccgtggcctctaggtggtagctgtgctaagcac	ctg22fin4	22	
51308 I		A	GTGGGTTGTCTAAATGTTAACACAATGTCTCTTCTTTCCTATTGCAGTATCA			
51308 P	C	A	ATGACGTGGCAGACCGTACCGTCCTGACG			
51308 P	T	A	CGCGCCGAGGTGTACCGTCCTGACG			
51308 T	C	A	AAAACGTCAGGACGGTACGGATACTGCAATAGGAAAGAAGAGACATTGTGTTAACATTTAGACAACCCACAT			
51308 T	T	A	AAAACGTCAGGACGGTACAGATACTGCAATAGGAAAGAAGAGACATTGTGTTAACATTTAGACAACCCACAT			
51308 IS	[CT]		AACAAGCATGTGGGTTGTCTAAATGTTAACACAATGTCTCTTCTTTCCTATTGCAGTATC[CT]GTACCGTCCTGACGTT TTGAGGCAATAGAGATGCCTTCCCCTGTAGCAGTCTTCAGCCTC	ctg22fin4	22	
51309 I		A	GCAATGAACTAAATCTGTGGTATAAAAATAAAGTCTATTAAAAGAATCCAAGGCA			
51309 P	C	A	ATGACGTGGCAGACCCCCTCTCATCTCACG			
51309 P	T	A	CGCGCCGAGGTCCCTCTCATCTCACG			
51309 T	C	A	TTATCGTGAGATGAGAGGGGGCCTTGGATTCTTTTAATAGACTTTATTTTTATACCACAGATTTAGTTCATTGCAA			
51309 T	T	A	TTATCGTGAGATGAGAGGGAGCCTTGGATTCTTTTAATAGACTTTATTTTTATACCACAGATTTAGTTCATTGCAA			
51309 IS	[CT]		AATTTTGCAATGAACTAAATCTGTGGTATAAAAATAAAGTCTATTAAAAGAATCCAAGGC[CT]CCCTCTCATCTCACGAT AAGATAAAGTCCCCATCCATTTTACTCCTCTCAGCCCTGGAGA	ctg22fin7	22	
51311 I		S	CAAGGCAGCGGGCTTCCTCTTGAACACT			
51311 P	C	S	ATGACGTGGCAGACGGTCCTCAATGCTCCT			
51311 P	T	S	CGCGCCGAGGAGTCCTCAATGCTCCTC			
51311 T	C	S	GGAAGAGGAGCATTGAGGACCGTGTTCAAGAGGAAGCCCGCTGCCTTGTG			
51311 T	T	S	GGAAGAGGAGCATTGAGGACTGTGTTCAAGAGGAAGCCCGCTGCCTTGTG			

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FIGURE 129D

				CGGCGTTTCTCCCTCATGACGCTGCGGAATTTTGGGATGGGGAAGAGGAGCATTGAGGAC[CT]GTGTTCAAGAGGAA				
51311 IS	[CT]			GCCCGCTGCCTTGTGGAGGAGTTGAGAAAAACCAAGGGTGGGTGAC				
51312 I		A	A	AGATGCTGTGGTGCACGAGGTCCAGAGATACT				
51312 P	A	A	A	CGCGCCGAGGATTGACCTTCTCCCCAC				
51312 P	C	A	A	ATGACGTGGCAGACCTTGACCTTCTCCCCA				
51312 T	A	A	A	GCTGGTGGGGAGAAGGTCAATGTATCTCTGGACCTCGTGCACCACAGCATCTGT				
51312 T	C	A	A	GCTGGTGGGGAGAAGGTCAAGGTATCTCTGGACCTCGTGCACCACAGCATCTGT				
				ATGCAAGACAGGAGCCACATGCCCTACACAGATGCTGTGGTGCACGAGGTCCAGAGATAC[AC]TTGACCTTCTCCCC				
51312 IS	[AC]			ACCAGCCTGCCCCATGCAGTGACCTGTGACATTAAATTCAGAAACT				MULTIPLE SHORT GENE NAMES
51314 I		S	S	GCAGTGGCAGGGGGCCTGGTGT				
51314 P	C	S	S	ATGACGTGGCAGACGGTAGCGTGCAGC				
51314 P	T	S	S	CGCGCCGAGGAGTAGCGTGCAGCC				
51314 T	C	S	S	GCTGGGCTGCACGCTACCCACCAGGCCCCCTGCCACTGCCC				
51314 T	T	S	S	GCTGGGCTGCACGCTACTCACCAGGCCCCCTGCCACTGCCC				
				GCCATCTTCCTGCTCCTGGTGGACCTGATGCACCGGCGCCAACGCTGGGCTGCACGCTAC[CT]CACCAGGCCCCCT				
51314 IS	[CT]			GCCACTGCCCGGGCTGGGCAACCTGCTGCATGTGGACTTCCAGAACA				CYP2D6
51315 I		S	S	CAGGCGGCCTCCTCGGTCACCT				
51315 P	INS	S	S	CGCGCCGAGGCACTGCTCCAGCGA				
51315 P	DEL	S	S	ATGACGTGGCAGACCCTGCTCCAGCGA				
51315 T	INS	S	S	AGAAGTCGCTGGAGCAGTGGGTGACCGAGGAGGCCGCCTGCC				
51315 T	DEL	S	S	AGAAGTCGCTGGAGCAGGGGTGACCGAGGAGGCCGCCTGCC				
				AGGCGCTTCTCCGTGTCCACCTTGCGCAACTTGGGCCTGGGCAAGAAGTCGCTGGAGCAG[T-				
51315 IS	[T-]			]GGGTGACCGAGGAGGCCGCCTGCCTTTGTGCCGCCTTCGCCAACCACTCCGGTGGGTGAT	ctg28096	3		
51317 I		S	S	GCTGGGCTGGGTCCCAGGTCATCT				
51317 P	INS	S	S	CGCGCCGAGGCTGTGCTCAGTTAGCAG				
51317 P	DEL	S	S	ATGACGTGGCAGACCGTGCTCAGTTAGCAG				
51317 T	INS	S	S	ATGAGCTGCTAACTGAGCACAGGATGACCTGGGACCCAGCCCAGCCC				
51317 T	DEL	S	S	ATGAGCTGCTAACTGAGCACGGATGACCTGGGACCCAGCCCAGCCC				
				AAGGTCCTACGCTTCCAAAAGGCTTTCCTGACCCAGCTGGATGAGCTGCTAACTGAGCAC[A-				
51317 IS	[A-]			]GGATGACCTGGGACCCAGCCCAGCCCCCCCGAGACCTGACTGAGGCCTTCCTGGCAGAGA				CYP2D6
51319 I		A	A	GCCACCATGGTGTCTTTGCTTTCCTGGTGAT				
51319 P	C	A	A	CGCGCCGAGGCCCCATCCCCCTATGY				
51319 P	G	A	A	ATGACGTGGCAGACGCCCATCCCCCTATG				
51319 T	C	A	A	AGCTCATAGGGGGATGGGGTCACCAGGAAAGCAAAGACACCATGGTGGCTG				
51319 T	G	A	A	AGCTCATAGGGGGATGGGCTCACCAGGAAAGCAAAGACACCATGGTGGCTG				
				TCTCGGTGCCCACTGGACAGCCCCGGCCCAGCCACCATGGTGTCTTTGCTTTCCTGGTGA[CG]CCCATCCCCCTATG				
51319 IS	[CG]			AGCTTTGTGCTGTGCCCCGCTAGAATGGGGTACCTAGTCCCCAGCC	ctg15131	10		CYP2D6
51320 I		S	S	CAGGTATGAGCCACTGTGCCCAGCCAAAATAATTTTTTTC				
51320 P	A	S	S	CGCGCCGAGGTAATTTTTAATCAGCTGGGTGT				
51320 P	T	S	S	ATGACGTGGCAGACAAATTTTTAATCAGCTGGGTG				
51320 T	A	S	S	CACCACACCCAGCTGATTAAAAATTAAAAAAAATTATTTTGGCTGGGCACAGTGGCTCATACCTGTA				
51320 T	T	S	S	CACCACACCCAGCTGATTAAAAATTTAAAAAAATTATTTTGGCTGGGCACAGTGGCTCATACCTGTA				
				TCAGCCTCCCAAGTAACTGGGCCACAGGTGCACACCACCACACCCAGCTGATTAAAAATT[AT]AAAAAAATTATTTTGG				
51320 IS	[AT]			CTGGGCACAGTGGCTCATACCTGTAATCCTGGCACTTTGGGAGG	ctg13446	1		
51321 I		S	S	AGCAGTTATTTTTAAGAGAGAAAGATAAATTAAAGGAAATAGTAGTCCACATACTTATTGT				
51321 P	C	S	S	ATGACGTGGCAGACGGAGAAAGAATGGATCCAAA				
51321 P	T	S	S	CGCGCCGAGGAGAGAAAGAATGGATCCAAAA				
51321 T	C	S	S	GATTTTTTGGATCCATTCTTTCTCCCAATAAGTATGTGGACTACTATTTCCTTTAATTTATCTTTCTCTCTTAAAAATAAC TGCT				
51321 T	T	S	S	GATTTTTTGGATCCATTCTTTCTCTCAATAAGTATGTGGACTACTATTTCCTTTAATTTATCTTTCTCTCTTAAAAATAAC TGCT				
				CCCTTTGTGGAAAACACCAAGAAGCTTTTAAGATTTGATTTTTTGGATCCATTCTTTCTC[CT]CAATAAGTATGTGGACT				
51321 IS	[CT]			ACTATTTCCTTTAATTTATCTTTCTCTCTTAAAAATAACTGCT	ctg13446	1		
51322 I		S	S	CAAGTGGAGCCATTGGCATAAAATCTATTAAATCGCCTCTCTCA				
51322 P	A	S	S	CGCGCCGAGGTTGCCCTTGTCTCTATGG				
51322 P	G	S	S	ATGACGTGGCAGACCTGCCCTTGTCTCTATG				
51322 T	A	S	S	ACAGCCATAGAGACAAGGGCAAGAGAGAGGCGATTTAATAGATTTTATGCCAATGGCTCCACTTGAG				
51322 T	G	S	S	ACAGCCATAGAGACAAGGGCAGGAGAGAGGCGATTTAATAGATTTTATGCCAATGGCTCCACTTGAG				
				TGGCTTGTTGGGATGAATTTCAAGTATTTTGGAATGAGGACAGCCATAGAGACAAGGGCA[AG]GAGAGAGGCGATTTA				
51322 IS	[AG]			ATAGATTTTATGCCAATGGCTCCACTTGAGTTTCTGATAAGAACC	ctg13980	1		
51323 I		S	S	GAGAAGGTAAAACCCAGTGGGAGCTTCTTGTCTTTGATC				
51323 P	A	S	S	CGCGCCGAGGTTGTAGCTTATCCATGAAGTTA				
51323 P	T	S	S	ATGACGTGGCAGACATGTAGCTTATCCATGAAGTTAG				
51323 T	A	S	S	CTGGCTAACTTCATGGATAAGCTACAAATCAAAGACAAGAAGCTCCCACTGGGTTTTACCTTCTCGT				
51323 T	T	S	S	CTGGCTAACTTCATGGATAAGCTACATATCAAAGACAAGAAGCTCCCACTGGGTTTTACCTTCTCGT				
				GTATCCTTAGCTGTTTGACCACATTGCCGAATGCCTGGCTAACTTCATGGATAAGCTACA[AT]ATCAAAGACAAGAAGC				
51323 IS	[AT]			TCCCACTGGGTTTTACCTTCTCGTTCCCCTGCCACCAGACTAAA	ctg19	19		
51324 I		A	A	GGGAGAAGGATGGCATCCGGAAGGCCA				
51324 P	C	A	A	ATGACGTGGCAGACCGTGAGGTCCTGATGC				
51324 P	T	A	A	CGCGCCGAGGTGTGAGGTCCTGATGC				
51324 T	C	A	A	AACCGCATCAGGACCTCACGGGCCTTCCGGATGCCATCCTTCTCCCTG				
51324 T	T	A	A	AACCGCATCAGGACCTCACAGGCCTTCCGGATGCCATCCTTCTCCCTG				
				GACACAGGCCCACATGCTGTCTTTCTGTTTCCCAGGGAGAAGGATGGCATCCGGAAGGCC[CT]GTGAGGTCCTGATG				
51324 IS	[CT]			CGGTTGGGCCTGGACCCGACTCAGGAGGACTGCGTGGCCACTCACC	ctg15907	6		
51325 I		S	S	CAAGAACTTGGTTTCAAAGATGCCCCTTGTCTTGAGCA				
51325 P	A	S	S	CGCGCCGAGGTGCTCTGAGATGCGG				
51325 P	G	S	S	ATGACGTGGCAGACCGCTCTGAGATGCG				
51325 T	A	S	S	GAGGCCGCATCTCAGAGCAGCTCAAGACAAGGGGCATCTTTGAAACCAAGTTCTTGTC				
51325 T	G	S	S	GAGGCCGCATCTCAGAGCGGCTCAAGACAAGGGGCATCTTTGAAACCAAGTTCTTGTC				
				GTAACATTCTCATCGATTTCACCAAGCGTGGACTGCTCTTCCGAGGCCGCATCTCAGAGC[AG]GCTCAAGACAAGGG				
51325 IS	[AG]			GCATCTTTGAAACCAAGTTCTTGTCTCAGATTGAGAGGTGAGAGCT	ctg18037	7		
51326 I		A	A	CCTGGGCTGTGGGTTTGCCTTCTGCA				
51326 P	C	A	A	ATGACGTGGCAGACCGGGAATGTAAAGAAGCG				
51326 P	T	A	A	CGCGCCGAGGTGGGAATGTAAAGAAGCG				
51326 T	C	A	A	GGTACGCTTCTTTACATTCCCGGCAGAAGGCAAACCCACAGCCCAGGCC				
51326 T	T	A	A	GGTACGCTTCTTTACATTCCCAGCAGAAGGCAAACCCACAGCCCAGGCC				
				GACCAGAGGAAAGTCACCTGCGAAGGGGGCAATGGCCTGGGCTGTGGGTTTGCCTTCTGC[CT]GGGAATGTAAAGA				
51326 IS	[CT]			AGCGTACCATGAAGGGGAGTGCAGTGCCGTATTTGAAGCCTCAGGAA	MULTIPLE	MULTIPLE	PARK2	
51327 I		S	S	CCATTTGCGATCACCTGGATTAATGGCAACTAATGA				
51327 P	A	S	S	CGCGCCGAGGTTCCTCTATCCCAAATCATG				
51327 P	G	S	S	ATGACGTGGCAGACCTCCTCTATCCCAAATCATG				
51327 T	A	S	S	TTGACATGATTTGGGATAGAGGAACATTAGTTGCCATTAATCCAGGTGATCGCAAATGGTA				
51327 T	G	S	S	TTGACATGATTTGGGATAGAGGAGCATTAGTTGCCATTAATCCAGGTGATCGCAAATGGTA				

FIGURE 129D

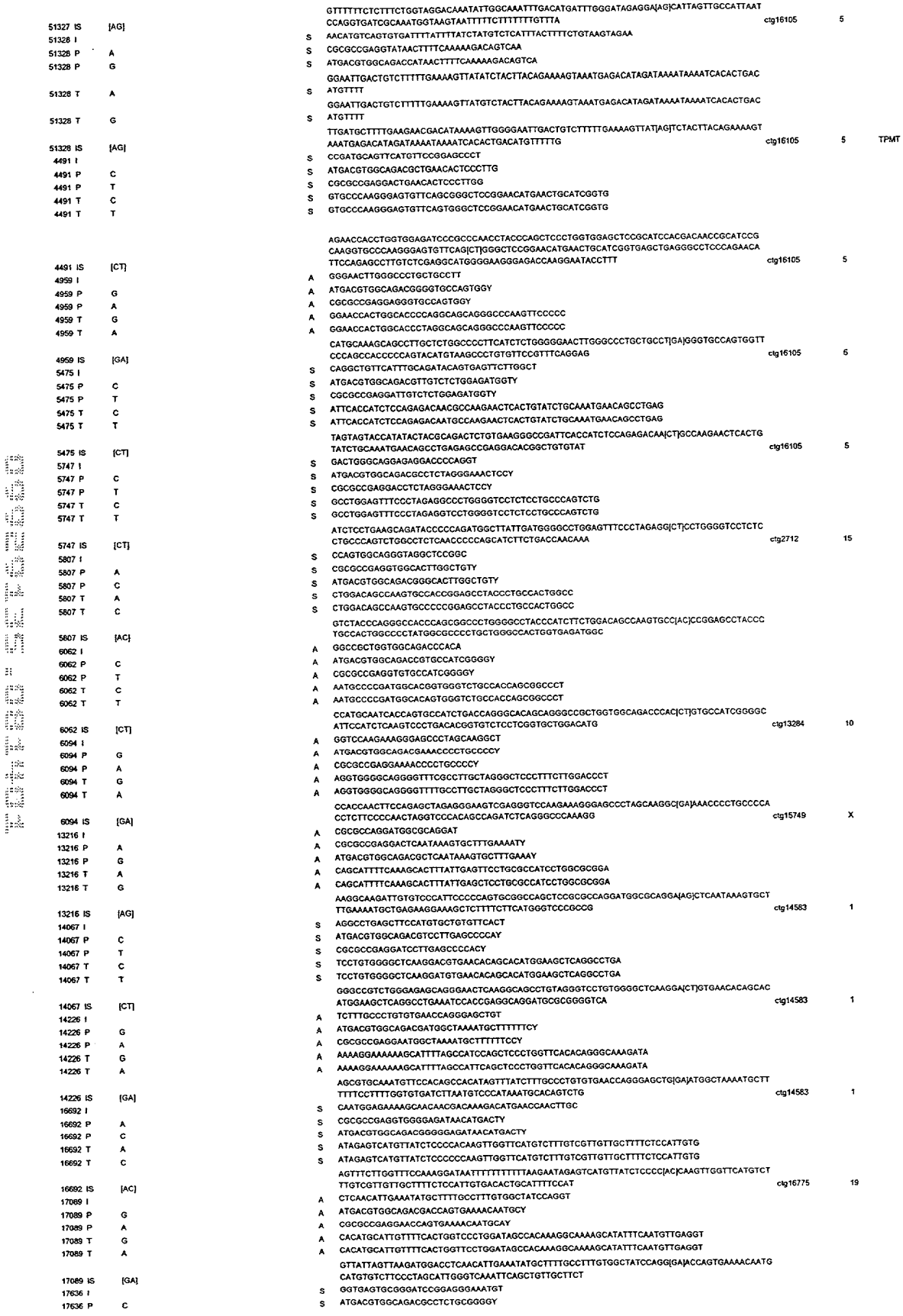

GTTTTTTCTCTTTCTGGTAGGACAAATATTGGCAAATTTGACATGATTTGGGATAGAGGA[AG]CATTAGTTGCCATTAAT
51327 IS [AG]
CCAGGTGATCGCAAATGGTAAGTAATTTTTCTTTTTTTGTTTA ctg16105 5
51328 I
S AACATGTCAGTGTGATTTTATTTTATCTATGTCTCATTTACTTTTCTGTAAGTAGAA
51328 P A
S CGCGCCGAGGTATAACTTTTCAAAAAGACAGTCAA
51328 P G
S ATGACGTGGCAGACCATAACTTTTCAAAAAGACAGTCA
GGAATTGACTGTCTTTTTGAAAAGTTATATCTACTTACAGAAAAGTAAATGAGACATAGATAAAATAAAATCACACTGAC
51328 T A
S ATGTTTT
GGAATTGACTGTCTTTTTGAAAAGTTATGTCTACTTACAGAAAAGTAAATGAGACATAGATAAAATAAAATCACACTGAC
51328 T G
S ATGTTTT
TTGATGCTTTTGAAGAACGACATAAAAGTTGGGGAATTGACTGTCTTTTTGAAAAGTTAT[AG]TCTACTTACAGAAAAGT
51328 IS [AG]
AAATGAGACATAGATAAAATAAAATCACACTGACATGTTTTTG ctg16105 5 TPMT
4491 I
S CCGATGCAGTTCATGTTCCGGAGCCCT
4491 P C
S ATGACGTGGCAGACGCTGAACACTCCCTTG
4491 P T
S CGCGCCGAGGACTGAACACTCCCTTGG
4491 T C
S GTGCCCAAGGGAGTGTTCAGCGGGCTCCGGAACATGAACTGCATCGGTG
4491 T T
S GTGCCCAAGGGAGTGTTCAGTGGGCTCCGGAACATGAACTGCATCGGTG
AGAACCACCTGGTGGAGATCCCGCCCAACCTACCCAGCTCCCTGGTGGAGCTCCGCATCCACGACAACCGCATCCG
CAAGGTGCCCAAGGGAGTGTTCAG[CT]GGGCTCCGGAACATGAACTGCATCGGTGAGCTGAGGGCCTCCCAGAACA
4491 IS [CT]
TTCCAGAGCCTTGTCTCGAGGCATGGGGAAGGGAGACCAAGGAATACCTTT ctg16105 5
4959 I
A GGGAACTTGGGCCCTGCTGCCTT
4959 P G
A ATGACGTGGCAGACGGGGTGCCAGTGGY
4959 P A
A CGCGCCGAGGAGGGTGCCAGTGGY
4959 T G
A GGAACCACTGGCACCCCAGGCAGCAGGGCCCAAGTTCCCCC
4959 T A
A GGAACCACTGGCACCCTAGGCAGCAGGGCCCAAGTTCCCCC
CATGCAAAGCAGCCTTGCTCTGGCCCCTTCATCTCTGGGGGAACTTGGGCCCTGCTGCCT[GA]GGGTGCCAGTGGTT
4959 IS [GA]
CCCAGCCACCCCCAGTACATGTAAGCCCTGTGTTCCGTTTCAGGAG ctg16105 5
5475 I
S CAGGCTGTTCATTTGCAGATACAGTGAGTTCTTGGCT
5475 P C
S ATGACGTGGCAGACGTTGTCTCTGGAGATGGTY
5475 P T
S CGCGCCGAGGATTGTCTCTGGAGATGGTY
5475 T C
S ATTCACCATCTCCAGAGACAACGCCAAGAACTCACTGTATCTGCAAATGAACAGCCTGAG
5475 T T
S ATTCACCATCTCCAGAGACAATGCCAAGAACTCACTGTATCTGCAAATGAACAGCCTGAG
TAGTAGTACCATATACTACGCAGACTCTGTGAAGGGCCGATTCACCATCTCCAGAGACAA[CT]GCCAAGAACTCACTG
5475 IS [CT]
TATCTGCAAATGAACAGCCTGAGAGCCGAGGACACGGCTGTGTAT ctg16105 5
5747 I
S GACTGGGCAGGAGAGGACCCCAGGT
5747 P C
S ATGACGTGGCAGACGCCTCTAGGGAAACTCCY
5747 P T
S CGCGCCGAGGACCTCTAGGGAAACTCCY
5747 T C
S GCCTGGAGTTTCCCTAGAGGCCCTGGGGTCCTCTCCTGCCCAGTCTG
5747 T T
S GCCTGGAGTTTCCCTAGAGGTCCTGGGGTCCTCTCCTGCCCAGTCTG
ATCTCCTGAAGCAGATACCCCCAGATGGCTTATTGATGGGGCCTGGAGTTTCCCTAGAGG[CT]CCTGGGGTCCTCTC
5747 IS [CT]
CTGCCCAGTCTGGCCTCTCAACCCCCAGCATCTTCTGACCAACAAA ctg2712 15
5807 I
S CCAGTGGCAGGGTAGGCTCCGGC
5807 P A
S CGCGCCGAGGTGGCACTTGGCTGTY
5807 P C
S ATGACGTGGCAGACGGGCACTTGGCTGTY
5807 T A
S CTGGACAGCCAAGTGCCACCGGAGCCTACCCTGCCACTGGCC
5807 T C
S CTGGACAGCCAAGTGCCCCCGGAGCCTACCCTGCCACTGGCC
GTCTACCCAGGGCCACCCAGCGGCCCTGGGGCCTACCCATCTTCTGGACAGCCAAGTGCC[AC]CCGGAGCCTACCC
5807 IS [AC]
TGCCACTGGCCCCTATGGCGCCCCTGCTGGGCCACTGGTGAGATGGC
6062 I
A GGCCGCTGGTGGCAGACCCACA
6062 P C
A ATGACGTGGCAGACCGTGCCATCGGGGY
6062 P T
A CGCGCCGAGGTGTGCCATCGGGGY
6062 T C
A AATGCCCCGATGGCACGGTGGGTCTGCCACCAGCGGCCCT
6062 T T
A AATGCCCCGATGGCACAGTGGGTCTGCCACCAGCGGCCCT
CCATGCAATCACCAGTGCCATCTGACCAGGGCACAGCAGGGCCGCTGGTGGCAGACCCAC[CT]GTGCCATCGGGGC
6062 IS [CT]
ATTCCATCTCAAGTCCCTGACACGGTGTCTCCTCGGTGCTGGACATG ctg13284 10
6094 I
A GGTCCAAGAAAGGGAGCCCTAGCAAGGCT
6094 P G
A ATGACGTGGCAGACGAAACCCCTGCCCCY
6094 P A
A CGCGCCGAGGAAAACCCCTGCCCCY
6094 T G
A AGGTGGGGCAGGGGTTTCGCCTTGCTAGGGCTCCCTTTCTTGGACCCT
6094 T A
A AGGTGGGGCAGGGGTTTTGCCTTGCTAGGGCTCCCTTTCTTGGACCCT
CCACCAACTTCCAGAGCTAGAGGGAAGTCGAGGGTCCAAGAAAGGGAGCCCTAGCAAGGC[GA]AAACCCCTGCCCCA
6094 IS [GA]
CCTCTTCCCCAACTAGGTCCCACAGCCAGATCTCAGGGCCCAAAGG ctg15749 X
13216 I
A CGCGCCAGGATGGCGCAGGAT
13216 P A
A CGCGCCGAGGACTCAATAAAGTGCTTTGAAAATY
13216 P G
A ATGACGTGGCAGACGCTCAATAAAGTGCTTTGAAAY
13216 T A
A CAGCATTTTCAAAGCACTTTATTGAGTTCCTGCGCCATCCTGGCGCGGA
13216 T G
A CAGCATTTTCAAAGCACTTTATTGAGCTCCTGCGCCATCCTGGCGCGGA
AAGGCAAGATTGTGTCCCATTCCCCCAGTGCGGCCAGCTCCGCGCCAGGATGGCGCAGGA[AG]CTCAATAAAGTGCT
13216 IS [AG]
TTGAAAATGCTGAGAAGGAAAGCTCTTTTCTTCATGGGTCCCGCCG ctg14583 1
14067 I
S AGGCCTGAGCTTCCATGTGCTGTGTTCACT
14067 P C
S ATGACGTGGCAGACGTCCTTGAGCCCCAY
14067 P T
S CGCGCCGAGGATCCTTGAGCCCCACY
14067 T C
S TCCTGTGGGGCTCAAGGACGTGAACACAGCACATGGAAGCTCAGGCCTGA
14067 T T
S TCCTGTGGGGCTCAAGGATGTGAACACAGCACATGGAAGCTCAGGCCTGA
GGGCCGTCTGGGAGAGCAGGGAACTCAAGGCAGCCTGTAGGGTCCTGTGGGGCTCAAGGA[CT]GTGAACACAGCAC
14067 IS [CT]
ATGGAAGCTCAGGCCTGAAATCCACCGAGGCAGGATGCGCGGGGTCA ctg14583 1
14226 I
A TCTTTGCCCTGTGTGAACCAGGGAGCTGT
14226 P G
A ATGACGTGGCAGACGATGGCTAAAATGCTTTTTTCY
14226 P A
A CGCGCCGAGGAATGGCTAAAATGCTTTTTTCCY
14226 T G
A AAAAGGAAAAAAGCATTTTAGCCATCCAGCTCCCTGGTTCACACAGGGCAAAGATA
14226 T A
A AAAAGGAAAAAAGCATTTTAGCCATTCAGCTCCCTGGTTCACACAGGGCAAAGATA
AGCGTGCAAATGTTCCACAGCCACATAGTTTATCTTTGCCCTGTGTGAACCAGGGAGCTG[GA]ATGGCTAAAATGCTT
14226 IS [GA]
TTTTCCTTTTGGTGTGATCTTAATGTCCCATAAATGCACAGTCTG ctg14583 1
16692 I
S CAATGGAGAAAAGCAACAACGACAAAGACATGAACCAACTTGC
16692 P A
S CGCGCCGAGGTGGGGAGATAACATGACTY
16692 P C
S ATGACGTGGCAGACGGGGGAGATAACATGACTY
16692 T A
S ATAGAGTCATGTTATCTCCCCACAAGTTGGTTCATGTCTTTGTCGTTGTTGCTTTTCTCCATTGTG
16692 T C
S ATAGAGTCATGTTATCTCCCCCCAAGTTGGTTCATGTCTTTGTCGTTGTTGCTTTTCTCCATTGTG
AGTTTCTTGGTTTCCAAAGGATAATTTTTTTTTTTTAAGAATAGAGTCATGTTATCTCCCC[AC]CAAGTTGGTTCATGTCT
16692 IS [AC]
TTGTCGTTGTTGCTTTTCTCCATTGTGACACTGCATTTTCCAT ctg16775 19
17089 I
A CTCAACATTGAAATATGCTTTTGCCTTTGTGGCTATCCAGGT
17089 P G
A ATGACGTGGCAGACGACCAGTGAAAACAATGCY
17089 P A
A CGCGCCGAGGAACCAGTGAAAACAATGCAY
17089 T G
A CACATGCATTGTTTTCACTGGTCCCTGGATAGCCACAAAGGCAAAAGCATATTTCAATGTTGAGGT
17089 T A
A CACATGCATTGTTTTCACTGGTTCCTGGATAGCCACAAAGGCAAAAGCATATTTCAATGTTGAGGT
GTTATTAGTTAAGATGGACCTCAACATTGAAATATGCTTTTGCCTTTGTGGCTATCCAGG[GA]ACCAGTGAAAACAATG
17089 IS [GA]
CATGTGTCTTCCCTAGCATTGGGTCAAATTCAGCTGTTGCTTCT
17636 I
S GGTGAGTGCGGGATCCGGAGGGAAATGT
17636 P C
S ATGACGTGGCAGACGCCTCTGCGGGGY

FIGURE 129D

17636 P	T	S	CGCGCCGAGGACCTCTGCGGGGAY				
17636 T	C	S	CTCCTCCCCGCAGAGGCCATTTCCCTCCGGATCCCGCACTCACCCG				
17636 T	T	S	CTCCTCCCCGCAGAGGTCATTTCCCTCCGGATCCCGCACTCACCCG				
17636 IS	[CT]		TGCGCGGCTCCCCGGGTCCTGCGCCCCAGTGCGCGGGCCCCTAGCTCCTCCCCGCAGAGG[CT]CATTTCCCTCCGG ATCCCGCACTCACCCGCCCAGGTCTCGGTCAGGGCCAGGGCCCCCAA				
18355 I		S	TGTGGGGAGGAGTAGCTTGCTAGTAGGAGCTTTATC				
18355 P	C	S	ATGACGTGGCAGACGAAAAAACTAATTGTATAACATTGATGAY				
18355 P	A	S	CGCGCCGAGGTAAAAAACTAATTGTATAACATTGATGAAAY				
18355 T	C	S	TCTCTTTCATCAATGTTATACAATTAGTTTTTTCATAAAGCTCCTACTAGCAAGCTACTCCTCCCCACACT				
18355 T	A	S	TCTCTTTCATCAATGTTATACAATTAGTTTTTTAATAAAGCTCCTACTAGCAAGCTACTCCTCCCCACACT				
18355 IS	[CA]		CTCATTGCTTTTCTCCCATCTTTTCTTTCTCTTTCATCAATGTTATACAATTAGTTTTTT[CA]ATAAAGCTCCTACTAGCA AGCTACTCCTCCCCACACTCAGAAAACCTCCTACCTAAAATC	ctg2712	15		
18467 I		S	ATGGCTCAAAATAGAATTTAGTTGATGGAGGGAGTAGAACA				
18467 P	A	S	CGCGCCGAGGTGGTAATACTCACAGTGTCAY				
18467 P	G	S	ATGACGTGGCAGACCGGTAATACTCACAGTGTCY				
18467 T	A	S	ACCTTGACACTGTGAGTATTACCAGTTCTACTCCCTCCATCAACTAAATTCTATTTTGAGCCATTT				
18467 T	G	S	ACCTTGACACTGTGAGTATTACCGGTTCTACTCCCTCCATCAACTAAATTCTATTTTGAGCCATTT				
18467 IS	[AG]		AATCCCTGTGAATGCTTTTCAGGGACTATGCAATGAAACCTTGACACTGTGAGTATTACC[AG]GTTCTACTCCCTCCAT CAACTAAATTCTATTTTGAGCCATTTTCATATGTTTACAGACCA	ctg2712	15		
18622 I		A	CCAAGTTTTGCATTATTCTCAGAGGAGCTCAGCAGATTCAGA				
18622 P	T	A	CGCGCCGAGGTGAACAGGAGCCTTGAY				
18622 P	C	A	ATGACGTGGCAGACCGAACAGGAGCCTTGAY				
18622 T	T	A	GAGTTCAAGGCTCCTGTTCACTGAATCTGCTGAGCTCCTCTGAGAATAATGCAAAACTTGGCT				
18622 T	C	A	GAGTTCAAGGCTCCTGTTCGCTGAATCTGCTGAGCTCCTCTGAGAATAATGCAAAACTTGGCT				
18622 IS	[TC]		CCACATGGTGGTAGAATAGCCAAGTTTTGCATTATTCTCAGAGGAGCTCAGCAGATTCAG[TC]GAACAGGAGCCTTGA ACTCCATGATGTCGCCCTGCTCCCCTCTTTTTGGGAAGAACGCGT	ctg2712	15		
18668 I		S	AGGGGGCTTCGGCGCGCTT				
18668 P	C	S	ATGACGTGGCAGACGGATAGTGGAAGGGGCY				
18668 P	G	S	CGCGCCGAGGCGATAGTGGAAGGGGCY				
18668 T	C	S	CCCCGCCCCTTCCACTATCCAGCGCGCCGAAGCCCCCTGC				
18668 T	G	S	CCCCGCCCCTTCCACTATCGAGCGCGCCGAAGCCCCCTGC				
18668 IS	[CG]		CCACCTCGCCCTTGCTTTCGCTCGCCCTTTTAGGGGGCTTTCCCCGCCCCTTCCACTATC[CG]AGCGCGCCGAAGCC CCCTGCCCAGAGCTCGGCTTTGCTACCTGGATCCGCTTCTTGTGTC				
18907 I		A	GGGTCCCAGAGAAAGATTTCCTTCTCTTAGAAGTGCATGTT				
18907 P	A	A	CGCGCCGAGGATATGTGGAGGGAGGGY				
18907 P	G	A	ATGACGTGGCAGACGTATGTGGAGGGAGGGY				
18907 T	A	A	TTTTCCCTCCCTCCACATATACATGCACTTCTAAGAGAAGGAAATCTTTCTCTGGGACCCCG				
18907 T	G	A	TTTTCCCTCCCTCCACATACACATGCACTTCTAAGAGAAGGAAATCTTTCTCTGGGACCCCG				
18907 IS	[AG]		TTGGAGGCCAGGGGAATACGGGGTCCCAGAGAAAGATTTCCTTCTCTTAGAAGTGCATGT[AG]TATGTGGAGGGAGG GAAAAGGGTCCTATAGAATGAGGGAAGACAAAAATGTTTTATTCCT	ctg_na	NA		
18962 I		S	CGGGCCCGGAGAGGCTCTCCT				
18962 P	G	S	CGCGCCGAGGCGGGAAAAGGCAGCY				
18962 P	C	S	ATGACGTGGCAGACGGGGAAAAGGCAGCY				
18962 T	G	S	TCCTGCTGCCTTTTCCCGGGAGAGCCTCTCCGGGCCCGGG				
18962 T	C	S	TCCTGCTGCCTTTTCCCCGGAGAGCCTCTCCGGGCCCGGG				
18962 IS	[GC]		GTCTCTCACTCCACCCCCTCCCCACCGTCCCCACCGAGGGACGTCCTGCTGCCTTTTCCC[GC]GGAGAGCCTCTCCG GGCCCGGGGCTCTGTGCTGCAGGCGCTGGGCTGGCCGGGAGGGCAG	ctg_na	NA		
19004 I		S	GCTCCCTGGTCCTCTTAACGTCATTCTTCATGGTCC				
19004 P	C	S	ATGACGTGGCAGACGGCCTCAGCCCATY				
19004 P	A	S	CGCGCCGAGGTGCCTCAGCCCATGY				
19004 T	C	S	CCCGCATGGGCTGAGGCCGACCATGAAGAATGACGTTAAGAGGACCAGGGAGCGC				
19004 T	A	S	CCCGCATGGGCTGAGGCAGACCATGAAGAATGACGTTAAGAGGACCAGGGAGCGC				
19004 IS	[CA]		TGAGGAGGAAGTTCCCGCTCACATTTCAGATGAAGGCAAGTGGCCCGCATGGGCTGAGGC[CA]GACCATGAAGAATG ACGTTAAGAGGACCAGGGAGCGCCTAGAAGGAGCCCGGAGGGGCTG	ctg_na	NA		
19091 I		S	CGGGCCGGGCACATCCATCCGT				
19091 P	C	S	ATGACGTGGCAGACGGGCGCGAGGGY				
19091 P	T	S	CGCGCCGAGGAGGCGCGAGGGY				
19091 T	C	S	CCTCCCCTCGCGCCCGGATGGATGTGCCCGGCCCGGT				
19091 T	T	S	CCTCCCCTCGCGCCTCGGATGGATGTGCCCGGCCCGGT				
19091 IS	[CT]		CACTCCAGTTGGCGGAGGAGGAGAAGGAAGGGGCCGGGCCGGGTCCCCTCCCCTCGCGCC[CT]CGGATGGATGTG CCCGGCCCGGTGTCTCGGCGGGCGGCGGCGGCGGCCACTGTGCTC	ctg15972	16		
19582 I		A	GGTCAGCGTCACCATTTTGAGGGTGATGGACT				
19582 P	G	A	ATGACGTGGCAGACGTGTTTTCTGCACTCTAGCY				
19582 P	A	A	CGCGCCGAGGATGTTTTCTGCACTCTAGCY				
19582 T	G	A	CAGTGCTAGAGTGCAGAAAACACGTCCATCACCCTCAAAATGGTGACGCTGACCTC				
19582 T	A	A	CAGTGCTAGAGTGCAGAAAACATGTCCATCACCCTCAAAATGGTGACGCTGACCTC				
19582 IS	[GA]		GGACGCAGCAGAGTCTGGGTCTGACAGGAGGTCAGCGTCACCATTTTGAGGGTGATGGAC[GA]TGTTTTCTGCACTC TAGCACTGTGTGGAAGCGCTGGCTGACAGCAGCCTGGCTGTCCGAA	ctg14840	6	KIAA0980	
19607 I		A	AAAGCAGCAGCGCAGCTCCCCAA				
19607 P	C	A	ATGACGTGGCAGACCCCGGCCTCACGY				
19607 P	T	A	CGCGCCGAGGTCCGGCCTCACGTY				
19607 T	C	A	CGGCACGTGAGGCCGGGTGGGGAGCTGCGCTGCTGCTTTGG				
19607 T	T	A	CGGCACGTGAGGCCGGATGGGGAGCTGCGCTGCTGCTTTGG				
19607 IS	[CT]		TGGGATCCTCGGGTGAGTGGGGCCGGGGCAGGGATCCCAAAGCAGCAGCGCAGCTCCCCA[CT]CCGGCCTCACGT GCCGTGCCCGTGTCTCCCCAGCATCTGGCACGAGTGGGAGATCGCCAA	ctg14840	6		
19658 I		A	AGCCTGAGGTAAGTTAACTGAATCACAGGCTGCAT				
19658 P	A	A	CGCGCCGAGGACAGAAATACTATTTAAAATGTCACAY				
19658 P	G	A	ATGACGTGGCAGACGCAGAAATACTATTTAAAATGTCACY				
19658 T	A	A	TCTATGTGACATTTTAAATAGTATTTCTGTTGCAGCCTGTGATTCAGTTAACTTACCTCAGGCTAA				
19658 T	G	A	TCTATGTGACATTTTAAATAGTATTTCTGCTGCAGCCTGTGATTCAGTTAACTTACCTCAGGCTAA				
19658 IS	[AG]		ATTCTTCCTTTTTTTTTTTGAGGCTTAGCCTGAGGTAAGTTAACTGAATCACAGGCTGCA[AG]CAGAAATACTATTTAAA ATGTCACATAGAAAATTCAATTTACACTTTGCTTTGCCTTTTA	ctg14840	6		
19762 I		S	CCCTCGGGGAGTGGGGGCCT				
19762 P	T	S	CGCGCCGAGGACCACTGTGGACACCY				
19762 P	C	S	ATGACGTGGCAGACGCCACTGTGGACACY				
19762 T	T	S	ATGGGGTGTCCACAGTGGTGGCCCCCACTCCCCGAGGGCT				
19762 T	C	S	ATGGGGTGTCCACAGTGGCGGCCCCCACTCCCCGAGGGCT				
19762 IS	[TC]		AGTCTTTGCCAATATCAGGGCTGACTGAGAAGCGTCACCCAGATGGGGTGTCCACAGTGG[TC]GGCCCCCACTCCCC GAGGGCTTGTGGTGTCCTGCCTCGCGTGGTCCTTTCCGAATAATGT	ctg3461	17		
20050 I		A	CATCTCCTTCCTGCACCAGAAGCACAATGCTTTT				
20050 P	C	A	CGCGCCGAGGCGCTTCTTGACCTCACY				
20050 P	G	A	ATGACGTGGCAGACGGCTTCTTGACCTCACY				
20050 T	C	A	GTCTGTGAGGTCAAGAAGCGAAAGCATTGTGCTTCTGGTGCAGGAAGGAGATGGC				
20050 T	G	A	GTCTGTGAGGTCAAGAAGCCAAAGCATTGTGCTTCTGGTGCAGGAAGGAGATGGC				
20050 IS	[CG]		GTTGCAGGAAACATTTGGTGGTTGCGCCATCTCCTTCCTGCACCAGAAGCACAATGCTTT[CG]GCTTCTTGACCTCAC AGACCACGGGCAGGTGCCCCACACCTTCCTCCGTTCCCACAGGTC	ctg14489	1		
20059 I		A	GTGTTAGCAGGGGCAGGGAGGCCT				

FIGURE 129D

20059 P	G	A	ATGACGTGGCAGACGGGGACGCCCCY			
20059 P	A	A	CGCGCCGAGGAGGGACGCCCCGY			
20059 T	G	A	GCTACGGGGCGTCCCCGGCCTCCCTGCCCCTGCTAACACGC			
20059 T	A	A	GCTACGGGGCGTCCCTGGCCTCCCTGCCCCTGCTAACACGC			
20059 IS	[GA]		TGAGTCCAGGCCGGAGGGTGCTGGGACCACCAGCAGCGTGTTAGCAGGGGCAGGGAGGCC[GA]GGGACGCCCCGT AGCAAGTGAGCAGGCAGATGGAGCAGGCTGCCGGGCTCCTGGTACGCA	ctg13297	17	
20212 I		A	CTCTAGAGGTTTGTTAACTCCTAGAAGATCATAGATTTCTGAAGTAGATTAATATTTTA			
20212 P	C	A	ATGACGTGGCAGACCTATTTTTCGTTATTATCATTTCATTGTY			
20212 P	T	A	CGCGCCGAGGTTATTTTTCGTTATTATCATTTCATTGTY			
20212 T	C	A	ATGGACAATGAAATGATAATAACGAAAAATAGAAAATATTAATCTACTTCAGAAATCTATGATCTTCTAGGAGTTAACAA ACCTCTAGAGCT			
20212 T	T	A	ATGGACAATGAAATGATAATAACGAAAAATAAAAAATATTAATCTACTTCAGAAATCTATGATCTTCTAGGAGTTAACAA ACCTCTAGAGCT			
20212 IS	[CT]		AGCTCTAGAGGTTTGTTAACTCCTAGAAGATCATAGATTTCTGAAGTAGATTAATATTTT[CT]TATTTTTCGTTATTATCA TTTCATTGTCCATTTCACTGGTTAATCCTATACCTTTGAAGA	ctg22fin4	22	
20361 I		A	CCCAAAGGTGAGTCTTCTTTGGATTGTGGACTCATCTC			
20361 P	G	A	ATGACGTGGCAGACGGAAGGAACTTTGAGGATTTY			
20361 P	T	A	CGCGCCGAGGTGAAGGAACTTTGAGGATTTAY			
20361 T	G	A	ATAGTAAATCCTCAAAGTTCCTTCCAGATGAGTCCACAATCCAAAGAAGACTCACCTTTGGGCT			
20361 T	T	A	ATAGTAAATCCTCAAAGTTCCTTCAAGATGAGTCCACAATCCAAAGAAGACTCACCTTTGGGCT			
20361 IS	[GT]		ATTAGAAAAACAAAAAGAAGAAGCCCAAAGGTGAGTCTTCTTTGGATTGTGGACTCATCT[GT]GAAGGAACTTTGAGGA TTTACTATTCTTTGCTTGGCTTCTCCAAGTAGTTACTGCACCAG	ctg22fin4	22	
20426 I		A	GCTCTACTTTCACGTGTTACCAAAGGACAGAGGACACA			
20426 P	C	A	ATGACGTGGCAGACCACCAAGGATTTAGAAAACTGY			
20426 P	T	A	CGCGCCGAGGTACCAAGGATTTAGAAAACTGTY			
20426 T	C	A	CTTAACAGTTTTCTAAATCCTTGGTGGTGTCCTCTGTCCTTTGGTAACACGTGAAAGTAGAGCAC			
20426 T	T	A	CTTAACAGTTTTCTAAATCCTTGGTAGTGTCCTCTGTCCTTTGGTAACACGTGAAAGTAGAGCAC			
20426 IS	[CT]		AAGGAACAAAAGTAGAAAAGTGTGCTCTACTTTCACGTGTTACCAAAGGACAGAGGACAC[CT]ACCAAGGATTTAGAAA ACTGTTAAGTGAGGATTTATTCTTCTTAATAGCCTTTCAAGCAA	ctg22fin4	22	
20723 I		A	GAACAGTGTCAGGAGGAGGTGACGGATGCT			
20723 P	G	A	ATGACGTGGCAGACGGCGCCCCCATCY			
20723 P	A	A	CGCGCCGAGGAGCGCCCCCATCY			
20723 T	G	A	ATGGGATGGGGGCGCCGCATCCGTCACCTCCTCCTGACACTGTTCAG			
20723 T	A	A	ATGGGATGGGGGCGCTGCATCCGTCACCTCCTCCTGACACTGTTCAG			
20723 IS	[GA]		GAGAGGAGGCTGGAGCAGCACTGGTGACACTGAACAGTGTCAGGAGGAGGTGACGGATGC[GA]GCGCCCCCATCCC ATAGGCAGAGCTGTCATGTGGGATGAGGGACAGTGTTGGGAGCCACC	ctg15907	6	
21129 I		S	ACGGGGACGGGGCACTTGGCC			
21129 P	A	S	CGCGCCGAGGTACTGCAGCTCGCCY			
21129 P	T	S	ATGACGTGGCAGACAACTGCAGCTCGCCY			
21129 T	A	S	CGGTGGCGAGCTGCAGTAGCCAAGTGCCCCGTCCCCGTTG			
21129 T	T	S	CGGTGGCGAGCTGCAGTTGCCAAGTGCCCCGTCCCCGTTG			
21129 IS	[AT]		CCCGGCTGATTTGCGCATCAGGTAGTCGCCGCTCTACTCTCAACGGTGGCGAGCTGCAGT[AT]GCCAAGTGCCCCGT CCCCGTTGCCATAACAGCAGTACACAACCCCTCCTTCCCCTCGCCC			
21523 I		A	GGGTGGATCACCTCAGGTTGGGAGTACAAGACA			
21523 P	C	A	ATGACGTGGCAGACCAGCCTGGCCAACAY			
21523 P	T	A	CGCGCCGAGGTAGCCTGGCCAACACY			
21523 T	C	A	TACTGTGTTGGCCAGGCTGGTCTTGTACTCCCAACCTGAGGTGATCCACCCAC			
21523 T	T	A	TACTGTGTTGGCCAGGCTAGTCTTGTACTCCCAACCTGAGGTGATCCACCCAC			
21523 IS	[CT]		TAATCCCAGCACTTTGGGAGGCCGAGGTGGGTGGATCACCTCAGGTTGGGAGTACAAGAC[CT]AGCCTGGCCAACAC AGTAAAACCCCATCTCTACTAAAAATACAAAAATTAGCCAGGCATG			MULTIPLE SHORT GENE NAMES
22103 I		S	ACAATCCGAGATTGATGGTTCTCTAACTTGAGCATCAGTTCACA			
22103 P	G	S	ATGACGTGGCAGACCTGGAAGGCTTGTGAGY			
22103 P	A	S	CGCGCCGAGGTTGGAAGGCTTGTGAGY			
22103 T	G	S	TGTCCTCACAAGCCTTCCAGGTGAACTGATGCTCAAGTTAGAGAACCATCAATCTCGGATTGTAA			
22103 T	A	S	TGTCCTCACAAGCCTTCCAAGTGAACTGATGCTCAAGTTAGAGAACCATCAATCTCGGATTGTAA			
22103 IS	[GA]		ACTGACAGAATCAGAAGCTCTGGGGGTAGGGCCCAGAAGTCTGTCCTCACAAGCCTTCCA[GA]GTGAACTGATGCTC AAGTTAGAGAACCATCAATCTCGGATTGTAAATCCCAGTTTCCTCA	ctg22fin4	22	
22215 I		A	CAGCCTGGGCAACAGAGCAAGACTGTCTT			
22215 P	C	A	CGCGCCGAGGCAAAAAACAAAAACCAAAACCAY			
22215 P	G	A	ATGACGTGGCAGACGAAAAAACAAAAACCAAAACCAY			
22215 T	C	A	TTTTTGGTTTTGGTTTTTGTTTTTTGAGACAGTCTTGCTCTGTTGCCCAGGCTGGA			
22215 T	G	A	TTTTTGGTTTTGGTTTTTGTTTTTTCAGACAGTCTTGCTCTGTTGCCCAGGCTGGA			
22215 IS	[CG]		TTGCAGTGAGCCGAGATTGCGCCACTGCACTCCAGCCTGGGCAACAGAGCAAGACTGTCT[CG]AAAAAACAAAAACC AAAACCAAAAATAAAGAGCCAGGGCTAAAGGTTCTCCCCATGGGCC			
22226 I		S	TCCAGGATGATCACCCATCACTGAAAAGAGGCAC			
22226 P	A	S	CGCGCCGAGGTAAGAACGTTCTGAGGCCY			
22226 P	C	S	ATGACGTGGCAGACGAAGAACGTTCTGAGGCY			
22226 T	A	S	TAGGGGCCTCAGAACGTTCTTATGCCTCTTTTCAGTGATGGGTGATCATCCTGGACA			
22226 T	C	S	TAGGGGCCTCAGAACGTTCTTCTGCCTCTTTTCAGTGATGGGTGATCATCCTGGACA			
22226 IS	[AC]		TTTGCCCACTTTGGGCAGAAATCTTCTCTGCTCAGAAAATAGGGGCCTCAGAACGTTCTT[AC]TGCCTCTTTTCAGTGA TGGGTGATCATCCTGGACAAGAATGGGCACAGTGTGTTGCAACC	ctg12414	1	
22473 I		A	CACAGAAGAATTCCAGAACAGCAGGGAAAACCATGACT			
22473 P	G	A	ATGACGTGGCAGACGAATATGGCAGTACACATTTCY			
22473 P	A	A	CGCGCCGAGGAAATATGGCAGTACACATTTCY			
22473 T	G	A	AGCTGAAATGTGTACTGCCATATTCGTCATGGTTTTCCCTGCTGTTCTGGAATTCTTCTGTGGG			
22473 T	A	A	AGCTGAAATGTGTACTGCCATATTTGTCATGGTTTTCCCTGCTGTTCTGGAATTCTTCTGTGGG			
22473 IS	[GA]		ATATAAAATAGTGTTCCTGCTCCCACAGAAGAATTCCAGAACAGCAGGGAAAACCATGAC[GA]AATATGGCAGTACACA TTTCAGCTTTCAGAGCTACAGCTGATTTCAACTTTTTCCCCAT			
22497 I		A	CACGATTATTGGCTCCAAGAATAATCACTATGAGCTACAAAAACTAGCTT			
22497 P	G	A	ATGACGTGGCAGACGAAAGCCGGGCACY			
22497 P	A	A	CGCGCCGAGGAAAAGCCGGGCACY			
22497 T	G	A	CCCCGTGCCCGGCTTTCAGCTAGTTTTTGTAGCTCATAGTGATTATTCTTGGAGCCAATAATCGTGCA			
22497 T	A	A	CCCCGTGCCCGGCTTTTAGCTAGTTTTTGTAGCTCATAGTGATTATTCTTGGAGCCAATAATCGTGCA			
22497 IS	[GA]		GTGGATGCATGCACGATTATTGGCTCCAAGAATAATCACTATGAGCTACAAAAACTAGCT[GA]AAAGCCGGGCACGGG GGCTTGTGCCTGTAATTCCAGCACTGTGGGAGGCTAAGGCAGGAG			
22503 I		A	GCATCCTTCCTAGGATGGCTGAACTTCACTAGATCGTAA			
22503 P	T	A	CGCGCCGAGGTTAAAGCTAAGATCAGTTCCCY			
22503 P	C	A	ATGACGTGGCAGACCTAAAGCTAAGATCAGTTCCCY			
22503 T	T	A	TTATGGGAACTGATCTTAGCTTTAATACGATCTAGTGAAGTTCAGCCATCCTAGGAAGGATGCTG			
22503 T	C	A	TTATGGGAACTGATCTTAGCTTTAGTACGATCTAGTGAAGTTCAGCCATCCTAGGAAGGATGCTG			
22503 IS	[TC]		CACCTGTCCCTCCCTCCCAGCAGCATCCTTCCTAGGATGGCTGAACTTCACTAGATCGTA[TC]TAAAGCTAAGATCAG TTCCCATAACAAGATGTTCAACTCTCCAGGGCATTTACACCTATC	ctg16861	13	
22641 I		S	GAATTCAGTTGGCATTTTAAAAATCCCACTTATTATTTCCCCTC			
22641 P	A	S	CGCGCCGAGGTTTTTAAAAAAGAAACTGCAAAATAACY			
22641 P	C	S	ATGACGTGGCAGACGTTTTAAAAAAGAAACTGCAAAATAACY			
22641 T	A	S	CTTGGTTATTTTGCAGTTTCTTTTTTAAAAAAGGGGAAATAATAAGTGGGATTTTTAAAATGCCAACTGAATTCCA			

FIGURE 129D

22641 T	C	S	CTTGGTTATTTTGCAGTTTCTTTTTTAAAACAGGGGAAATAATAAGTGGGATTTTTAAAATGCCAACTGAATTCCA				
22641 IS	[AC]		GGTCAGTTGAGGTCTGCTGCCTACACATAGCTTGGTTATTTTGCAGTTTCTTTTTTAAAA[AC]AGGGGAAATAATAAGT GGGATTTTTAAAATGCCAACTGAATTCCATTTAAGAGCTTGAAA	ctg16861	13		
22767 I		S	CCTTCCAAATGGCTGTATTTATAAAGGTTTTTGGAGCTGCACA				
22767 P	A	S	CGCGCCGAGGTGAAGCATCTTATTTTATAGTATATCAAY				
22767 P	G	S	ATGACGTGGCAGACCGAAGCATCTTATTTTATAGTATATCAY				
22767 T	A	S	AAGGTTGATATACTATAAAATAAGATGCTTCAGTGCAGCTCCAAAAAACCTTTATAAATACAGCCATTTGGAAGGAC				
22767 T	G	S	AAGGTTGATATACTATAAAATAAGATGCTTCGGTGCAGCTCCAAAAACCTTTATAAATACAGCCATTTGGAAGGAC				
22767 IS	[AG]		GCTACCTTGGCAGGTCAATTTAAAAACAAAAGGTTGATATACTATAAAATAAGATGCTTC[AG]GTGCAGCTCCAAAAAC CTTTATAAATACAGCCATTTGGAAGGACGATCCTGGATCAGAAA				RBM3
22894 I		A	TGAGAAACGGGATGCCCTCTTCATACAGTCCCT				
22894 P	A	A	CGCGCCGAGGAGGAGAACTGCTGCAAY				
22894 P	G	A	ATGACGTGGCAGACGGGAGAACTGCTGCAY				
22894 T	A	A	CAACTTGCAGCAGTTCTCCTGGGACTGTATGAAGAGGGCATCCCGTTTCTCAGA				
22894 T	G	A	CAACTTGCAGCAGTTCTCCCGGGACTGTATGAAGAGGGCATCCCGTTTCTCAGA				
22894 IS	[AG]		GAAAGGTAACTGGCCTGCACAAAGACTCTGAGAAACGGGATGCCCTCTTCATACAGTCCC[AG]GGAGAACTGCTGCA AGTTGACCCATCTTCCCACTCCACCTCCACGCTCAGTCTCCTTTCA	ctg17253	1		
23039 I		S	CAGCTGGCCAGCCTGTTCTCAGCCT				
23039 P	C	S	ATGACGTGGCAGACGCCTTCTCGCCCAY				
23039 P	G	S	CGCGCCGAGGCCCTTCTCGCCCACY				
23039 T	C	S	CGCTGTGGGCGAGAAGGCGGCTGAGAACAGGCTGGCCAGCTGGT				
23039 T	G	S	CGCTGTGGGCGAGAAGGGGGCTGAGAACAGGCTGGCCAGCTGGT				
23039 IS	[CG]		GGGCTGGGGCTCGAGTGCCGTGGCCTCCACGTAAACGGGAACACGCTGTGGGCGAGAAGG[CG]GGCTGAGAACAG GCTGGCCAGCTGGTGTCCTGCCCACCTCACTGCAGGGCCCCAGCAGCC	ctg15071	9		
23959 I		A	GCAACCATATTAAATATTGCTGAGCTCAGGCCAACT				
23959 P	A	A	CGCGCCGAGGAACTTCTTGAAAAGAGAGCAY				
23959 P	G	A	ATGACGTGGCAGACGACTTCTTGAAAAGAGAGCAY				
23959 T	A	A	TCGTTGCTCTCTTTTCAAGAAGTTGTTGGCCTGAGCTCAGCAATATTTAATATGGTTGCCA				
23959 T	G	A	TCGTTGCTCTCTTTTCAAGAAGTCGTTGGCCTGAGCTCAGCAATATTTAATATGGTTGCCA				
23959 IS	[AG]		AACTGCTGAAAACTGATAAATTATGGCAACCATATTAAATATTGCTGAGCTCAGGCCAAC[AG]ACTTCTTGAAAAGAGA GCAACGAGTCTATTTGTAGTGACTGGAATCTTTCAATATAGCTA	ctg15071	9		
24008 I		S	CATCAGGGACAGTAATCCCAGACTACAGGGCTT				
24008 P	T	S	CGCGCCGAGGATGGAGGGATTTGGGCY				
24008 P	C	S	ATGACGTGGCAGACGTGGAGGGATTTGGGY				
24008 T	T	S	TCCCGCCCAAATCCCTCCATAGCCCTGTAGTCTGGGATTACTGTCCCTGATGAG				
24008 T	C	S	TCCCGCCCAAATCCCTCCACAGCCCTGTAGTCTGGGATTACTGTCCCTGATGAG				
24008 IS	[TC]		GTTCTCTGGTGTGTGTGCTGAACTCTCCACCCGCCCCAAGGTCCCGCCCAAATCCCTCCA[TC]AGCCCTGTAGTCTG GGATTACTGTCCCTGATGAGAAAAGGGGATAGTGAGGCCCAGTTGT				
24157 I		A	TCAGGTTGCAGCAGACGTGAGCAGCAT				
24157 P	A	A	CGCGCCGAGGATTGAGCACCCATCCGY				
24157 P	G	A	ATGACGTGGCAGACGTTGAGCACCCATCCY				
24157 T	A	A	GGGACGGATGGGTGCTCAATTGCTGCTCACGTCTGCTGCAACCTGAAG				
24157 T	G	A	GGGACGGATGGGTGCTCAACTGCTGCTCACGTCTGCTGCAACCTGAAG				
24157 IS	[AG]		GAAGGGAGCAGATCTGCTGGCTGAGATGCAAGCTTCAGGTTGCAGCAGACGTGAGCAGCA[AG]TTGAGCACCCATCC GTCCCTTCCCCTCCCATCCCTGGATTCTTTCTGCACTACCAAAAAC				GAS7
24621 I		A	GGTATACACAAACCTCCTTTGTGATCATTTTTTCCCTGCTAGCT				
24621 P	G	A	ATGACGTGGCAGACGTATTAACACAGTATTTTTTTGATTTTTCY				
24621 P	A	A	CGCGCCGAGGATATTAACACAGTATTTTTTTGATTTTTCY				
24621 T	G	A	AATGGAAAAATCAAAAAAATACTGTGTTAATACGCTAGCAGGGAAAAAATGATCACAAAGGAGGTTTGTGTATACCTT				
24621 T	A	A	AATGGAAAAATCAAAAAAATACTGTGTTAATATGCTAGCAGGGAAAAAATGATCACAAAGGAGGTTTGTGTATACCTT				
24621 IS	[GA]		CATTAAAAGCTAAAAAAGGTATACACAAACCTCCTTTGTGATCATTTTTTCCCTGCTAGC[GA]TATTAACACAGTATTTT TTTGATTTTTCCATTTTAATTACTTGCAAGTGAAAAGTGATTT	ctg14326	3		
24660 I		S	TGGGAATCCAATGTGGCTTGGGAACCCAT				
24660 P	T	S	CGCGCCGAGGAGAATTTTTCCACCACGTTY				
24660 P	C	S	ATGACGTGGCAGACGGAATTTTTCCACCACGTY				
24660 T	T	S	AAGAAACGTGGTGGAAAAATTCTTGGGTTCCCAAGCCACATTGGATTCCCAGC				
24660 T	C	S	AAGAAACGTGGTGGAAAAATTCCTGGGTTCCCAAGCCACATTGGATTCCCAGC				
24660 IS	[TC]		TTGTTTACAAAACCTTCTTCAAATGCTGCAACAGAGAGAAGAAACGTGGTGGAAAAATTC[TC]TGGGTTCCCAAGCCAC ATTGGATTCCCAGCCCCAGCGAATGCAGGCCCAGCACCATGGTT	ctg14326	3		
24787 I		S	CTGTGACATAACTGGTTCTAACACATTAATTTCTATTTTACTCTTGTGAAA				
24787 P	G	S	ATGACGTGGCAGACCTTCACTAGAATCTGATGACTTY				
24787 P	A	S	CGCGCCGAGGTTTCACTAGAATCTGATGACTTY				
24787 T	G	S	TTCCAAGTCATCAGATTCTAGTGAAGTTCACAAGAGTAAAATAGAAATTAATGTGTTAGAACCAGTTATGTCACAGCT				
24787 T	A	S	TTCCAAGTCATCAGATTCTAGTGAAATTCACAAGAGTAAAATAGAAATTAATGTGTTAGAACCAGTTATGTCACAGCT				
24787 IS	[GA]		AATGATACAGTAAAACTTAAAATTAATTTTCATGGTTCCAAGTCATCAGATTCTAGTGAA[GA]TTCACAAGAGTAAAATA GAAATTAATGTGTTAGAACCAGTTATGTCACAGCTATCAAATT	ctg16306	4		NPAT
24814 I		S	TGTCCCCAAATGAATAAAAAAAAGTTACTGTCAGGCCATAAAGGGT				
24814 P	G	S	ATGACGTGGCAGACCAATTTTAAGTGATTTAGACATTTGAAY				
24814 P	T	S	CGCGCCGAGGAAATTTTAAGTGATTTAGACATTTGAATY				
24814 T	G	S	TTACATTCAAATGTCTAAATCACTTAAAATTGCCCTTTATGGCCTGACAGTAACTTTTTTTTATTCATTTGGGGACAAC				
24814 T	T	S	TTACATTCAAATGTCTAAATCACTTAAAATTTCCCTTTATGGCCTGACAGTAACTTTTTTTTATTCATTTGGGGACAAC				
24814 IS	[GT]		TAGTTGATTTTATAGGCTAGTGGGAGAATTTACATTCAAATGTCTAAATCACTTAAAATT[GT]CCCTTTATGGCCTGACA GTAACTTTTTTTTATTCATTTGGGGACAACTATGTCCGTGAGC	ctg13980	1		
24951 I		A	TCCTGGGGCATTTTTAGAGCACTTTTAAATCTTTAATTAATCCACATCTTTGTT				
24951 P	A	A	CGCGCCGAGGAGTGGGTCAATGATATTATGGY				
24951 P	G	A	ATGACGTGGCAGACGGTGGGTCAATGATATTATGGY				
24951 T	A	A	TCATCCATAATATCATTGACCCACTACAAAGATGTGGATTAATTAAAGATTTAAAAGTGCTCTAAAAATGCCCCAGGAGT				
24951 T	G	A	TCATCCATAATATCATTGACCCACCACAAAGATGTGGATTAATTAAAGATTTAAAAGTGCTCTAAAAATGCCCCAGGAG T				
24951 IS	[AG]		TAAGCACTCCTGGGGCATTTTTAGAGCACTTTTAAATCTTTAATTAATCCACATCTTTGT[AG]GTGGGTCAATGATATTA TGGATGAGAAACACAGAACAGAACGATTATGTGATTAGCCAAT	ctg13980	1		
25207 I		A	GGAGATGCCTCAAGGTAAAGAAGAGCCCTGTCAGT				
25207 P	G	A	ATGACGTGGCAGACGCTTTATACGTCCAGATTTTTTY				
25207 P	C	A	CGCGCCGAGGCCTTTATACGTCCAGATTTTTTGY				
25207 T	G	A	GGATCAAAAAATCTGGACGTATAAAGCCTGACAGGGCTCTTCTTTACCTTGAGGCATCTCCAG				
25207 T	C	A	GGATCAAAAAATCTGGACGTATAAAGGCTGACAGGGCTCTTCTTTACCTTGAGGCATCTCCAG				
25207 IS	[GC]		GACCTTACAAGGACACAGAGGAGGCTGGAGATGCCTCAAGGTAAAGAAGAGCCCTGTCAG[GC]CTTTATACGTCCAG ATTTTTTGATCCAACAGAAAATGTTGGCTAGAACCACTCTGCTGAG	ctg15972	16		
25503 I		A	CCATGAAATGATGCAGTAAGTGTTGGAGATATCTTCCAGAAGTCTA				

FIGURE 129D

25503	P	T	A	CGCGCCGAGGTAGGTCATTTGTTTTCATGTTTAAY			
25503	P	C	A	ATGACGTGGCAGACCAGGTCATTTGTTTTCATGTTY			
25503	T	T	A	CAATTTAAACATGAAAACAAATGACCTAAGACTTCTGGAAGATATCTCCAACACTTACTGCATCATTTCATGGTA			
25503	T	C	A	CAATTTAAACATGAAAACAAATGACCTGAGACTTCTGGAAGATATCTCCAACACTTACTGCATCATTTCATGGTA			
25503	IS	[TC]		GTTTAAAATAATATACCATGAAATGATGCAGTAAGTGTTGGAGATATCTTCCAGAAGTCT[TC]AGGTCATTTGTTTTCAT GTTTAAATTGTTTCCGCAAAGGCATTCTCTTCAACATAAGGAG	ctg15907	6	
25523	I		A	CCCCATTCTAGAGAACGCCAGACAGAGGCAT			
25523	P	G	A	ATGACGTGGCAGACGGAGGGCATTGTGAGY			
25523	P	C	A	CGCGCCGAGGCGAGGGCATTGTGAGY			
25523	T	G	A	ATTGCTCACAATGCCCTCCTGCCTCTGTCTGGCGTTCTCTAGAATGGGGTG			
25523	T	C	A	ATTGCTCACAATGCCCTCGTGCCTCTGTCTGGCGTTCTCTAGAATGGGGTG			
25523	IS	[GC]		GGTTTTTGTGTGGCTCATTGTTCCTGCTCACCCCATTCTAGAGAACGCCAGACAGAGGCA[GC]GAGGGCATTGTGAG CAATTCCATCATGTACTTCACGGAGGAACCCCCCGAGCTGCCGGCC	ctg22lin6	22	
25535	I		S	CAGAAAGGCTGTGAAGGGAATGGAACAGAGTGTGA			
25535	P	G	S	ATGACGTGGCAGACCCAGAACCCTCAGGGY			
25535	P	A	S	CGCGCCGAGGTCAGAACCCTCAGGGY			
25535	T	G	S	AACACCCTGAGGGTTCTGGCACACTCTGTTCCATTCCCTTCACAGCCTTTCTGCC			
25535	T	A	S	AACACCCTGAGGGTTCTGACACACTCTGTTCCATTCCCTTCACAGCCTTTCTGCC			
25535	IS	[GA]		TTCAAGATAGTATACCTGGTGGCCCGTAAACAAGAGCTGAGAAACACCCTGAGGGTTCTG[GA]CACACTCTGTTCCAT TCCCTTCACAGCCTTTCTGCCTGAGTGCAATTCTTTCCACTTCTT	ctg15907	6	
25587	I		S	TGGCAGCAGAGTGGTGAGGACCGTGC			
25587	P	C	S	ATGACGTGGCAGACGACACCTGGCTAGGGY			
25587	P	A	S	CGCGCCGAGGTACACCTGGCTAGGGAY			
25587	T	C	S	ACATTCCCTAGCCAGGTGTCCACGGTCCTCACCACTCTGCTGCCATC			
25587	T	A	S	ACATTCCCTAGCCAGGTGTACACGGTCCTCACCACTCTGCTGCCATC			
25587	IS	[CA]		TCATTCCCTTACTCAGAAACTCTCCTTTCCTACCTTATCGCACATTCCCTAGCCAGGTGT[CA]CACGGTCCTCACCACT CTGCTGCCATCTTATCTTCCCAGCATTGCTCTTTCTCCCCTCCC			
25736	I		A	GCAAAGCTGTGCCTATTTCATGCATACAACTTGATGAGTTC			
25736	P	T	A	CGCGCCGAGGTGGAGATATGTTTACACACCY			
25736	P	G	A	ATGACGTGGCAGACGGGAGATATGTTTACACACCY			
25736	T	T	A	GAGGGGTGTGTAAACATATCTCCAAACTCATCAAGTTGTATGCATGAAATAGGCACAGCTTTGCAT			
25736	T	G	A	GAGGGGTGTGTAAACATATCTCCCAACTCATCAAGTTGTATGCATGAAATAGGCACAGCTTTGCAT			
25736	IS	[TG]		CTAAGGTGTAATTGGCATATGCAAAGCTGTGCCTATTTCATGCATACAACTTGATGAGTT[TG]GGAGATATGTTTACAC ACCCCTCACTGCTATCATTAAAGGTGCTCATCTCTTCATTCTGC	ctg16920	19	
25836	I		S	GGAGGAGAGGCCTGTGGCCCAAAGAT			
25836	P	T	S	CGCGCCGAGGACCTGGTAGCGCCY			
25836	P	C	S	ATGACGTGGCAGACGCCTGGTAGCGCCY			
25836	T	T	S	AGGAGGCGCTACCAGGTTCTTTGGGCCACAGGCCTCTCCTCCAC			
25836	T	C	S	AGGAGGCGCTACCAGGCTCTTTGGGCCACAGGCCTCTCCTCCAC			
25836	IS	[TC]		CAGTCCATGGCGTTACCAAGGCTGCGCCACCCACGTGCTGCCCCAGGAGGCGCTACCAGG[TC]TCTTTGGGCCACA GGCCTCTCCTCCACTGCATGTGGCGGCAGGGCAGGGAGGTCGCAGGG			PIK4CA
25890	I		S	GGAAGTAGGTTGTTCCATGACAATTAAACTTAAGCAAGAAGCAATAGATCAAA			
25890	P	G	S	ATGACGTGGCAGACCGCAGAGAGCTGTCTY			
25890	P	A	S	CGCGCCGAGGTGCAGAGAGCTGTCTCY			
25890	T	G	S	TCCAGAGACAGCTCTCTGCGTTGATCTATTGCTTCTTGCTTAAGTTTAATTGTCATGGAACAACCTACTTCCAG			
25890	T	A	S	TCCAGAGACAGCTCTCTGCATTGATCTATTGCTTCTTGCTTAAGTTTAATTGTCATGGAACAACCTACTTCCAG			
25890	IS	[GA]		TTCTCATTGACACATCACTGCTTTAACTTATATTAATACCTTCCAGAGACAGCTCTCTGC[GA]TTGATCTATTGCTTCTT GCTTAAGTTTAATTGTCATGGAACAACCTACTTCCAGGATCTC	ctg15907	6	
25939	I		S	TGCACTCCCCTTTAAATATTGGTCTTCTTGCTTATAATCCTGAATAGGAA			
25939	P	G	S	ATGACGTGGCAGACCATTTCATGTTCTGTTTTCCTATY			
25939	P	A	S	CGCGCCGAGGTATTTCATGTTCTGTTTTCCTATTTY			
25939	T	G	S	ATGCAAATAGGAAAACAGAACATGAAATGTCCTATTCAGGATTATAAGCAAGAAGACCAATATTTAAAGGGGAGTGCAG G			
25939	T	A	S	ATGCAAATAGGAAAACAGAACATGAAATATCCTATTCAGGATTATAAGCAAGAAGACCAATATTTAAAGGGGAGTGCAG G			
25939	IS	[GA]		GTCCAAATGTACTTTTACAATATCTTCTCAAAATGCAAATAGGAAAACAGAACATGAAAT[GA]TCCTATTCAGGATTATA AGCAAGAAGACCAATATTTAAAGGGGAGTGCAGGAAAGAGACC	ctg15330	9	
26005	I		A	CTGTCATCCTAGGCCTGAATTTCTGCAAAAGCCACC			
26005	P	T	A	CGCGCCGAGGTTTGTCCCCTTCCTACCY			
26005	P	G	A	ATGACGTGGCAGACGTTGTCCCCTTCCTACCY			
26005	T	T	A	TGAGGGTAGGAAGGGGACAAAGTGGCTTTTGCAGAAATTCAGGCCTAGGATGACAGAG			
26005	T	G	A	TGAGGGTAGGAAGGGGACAACGTGGCTTTTGCAGAAATTCAGGCCTAGGATGACAGAG			
26005	IS	[TG]		GTGATAGTGTGGGAGGAGACAGCCTCTGTCATCCTAGGCCTGAATTTCTGCAAAAGCCAC[TG]TTGTCCCCTTCCTAC CCTCAGTCCTTTCCCCTTCCATTAGTTTACCAACTATTTATTGAA	ctg15330	9	
26045	I		S	TGGGTGTGTCTTCCGGGGCAGTGAGA			
26045	P	A	S	CGCGCCGAGGTGTCAGCCGGGAACY			
26045	P	G	S	ATGACGTGGCAGACCGTCAGCCGGGAAY			
26045	T	A	S	TTCCGTTCCCGGCTGACACTCACTGCCCCGGAAGACACACCCACT			
26045	T	G	S	TTCCGTTCCCGGCTGACGCTCACTGCCCCGGAAGACACACCCACT			
26045	IS	[AG]		CTGTGCTCTTCCTGTTACACCCCGATCCCTGGGTCTGTCTGGCTTCCGTTCCCGGCTGAC[AG]CTCACTGCCCCGGA AGACACACCCACTAGATCAGCGTTTCCACACTAGAATACTTTATTC	ctg15330	9	
26082	I		S	CGTAGAAATCTTGTTGTTGCTTATATCCCTGGAAGAGAT			
26082	P	C	S	ATGACGTGGCAGACGGGGGGATTCGGCY			
26082	P	G	S	CGCGCCGAGGCGGGGGATTCGGCY			
26082	T	C	S	CTTTGCCGAATCCCCCCTCTCTTCCAGGGATATAAGCAACAACAAGATTTCTACGTT			
26082	T	G	S	CTTTGCCGAATCCCCCGTCTCTTCCAGGGATATAAGCAACAACAAGATTTCTACGTT			
26082	IS	[CG]		GGCGGCACCGCCTCTTGCTGCTCAGCTGTGGGGGCTTCCGTCAGCTTTGCCGAATCCCCC[CG]TCTCTTCCAGGGAT ATAAGCAACAACAAGATTTCTACGTTAGAAGAAGGAATATTTGCTA	ctg12559	6	
26151	I		A	TGATCCATGACCCTGTCAGGTTTCATAGGCCCT			
26151	P	A	A	CGCGCCGAGGAGACTGTGAGGTGAATCCY			
26151	P	G	A	ATGACGTGGCAGACGGACTGTGAGGTGAATCY			
26151	T	A	A	GTCTGGATTCACCTCACAGTCTGGGCCTATGAAACCTGACAGGGTCATGGATCAGC			
26151	T	G	A	GTCTGGATTCACCTCACAGTCCGGGCCTATGAAACCTGACAGGGTCATGGATCAGC			
26151	IS	[AG]		TGTCTCCGTTGGAGCCTCCTCCCACAGCTGATCCATGACCCTGTCAGGTTTCATAGGCCC[AG]GACTGTGAGGTGAA TCCAGACAACTGTGTCAGCCACCAGTGTCAGAATGGGGGCACTTGC	ctg15907	6	
26230	I		A	CGTGAGAATGACCCAAAAGCCCCAGGACTAAAAAGAAGT			
26230	P	A	A	CGCGCCGAGGACCGCCCGGAGY			
26230	P	C	A	ATGACGTGGCAGACCCCGCCCGGAGY			
26230	T	A	A	CGTGCTCCGGGCGGTCTTCTTTTTAGTCCTGGGGCTTTTGGGTCATTCTCACGGA			
26230	T	C	A	CGTGCTCCGGGCGGGCTTCTTTTTAGTCCTGGGGCTTTTGGGTCATTCTCACGGA			
26230	IS	[AC]		CTGATGGTGTTGGGGAATCCTCCGTGAGAATGACCCAAAAGCCCCAGGACTAAAAAGAAG[AC]CCGCCCGGAGCACG CTTTGCCCCATTTTCTTCTGCCTGGCCATGCTACGCCTAAAACGAA			GRIA3
26262	I		A	CCCCCACGGAATGAGGCAGGGGAA			
26262	P	T	A	CGCGCCGAGGTGGGCCAGGCACY			
26262	P	C	A	ATGACGTGGCAGACCGGGCCAGGCACY			

FIGURE 129D

26262 T	T	A	GGGGGTGCCTGGCCCATCCCCTGCCTCATTCCGTGGGGGCG				
26262 T	C	A	GGGGGTGCCTGGCCCGTCCCCTGCCTCATTCCGTGGGGGCG				
26262 IS	[TC]		CGGGCCGCCCGTGTGGCCCCCAAGCCCCGCGGTCCCGCCCCCACGGAATGAGGCAGGGGA[TC]GGGCCAGGCACC CCCAGTCCGCGGTGCCCTCCGGGACCACACGAACGAACGAGCCGACCC	ctg22fin3	22		
26557 I		S	GCTTCTTTCATCCACTTTCAGGAATATCGTTAGCTTGGTGCA				
26557 P	G	S	ATGACGTGGCAGACCCCCTCTGGAAATGTCAY				
26557 P	A	S	CGCGCCGAGGTCCCTCTGGAAATGTCATY				
26557 T	G	S	TAGAATGACATTTCCAGAGGGGGCACCAAGCTAACGATATTCCTGAAAGTGGATGAAAGAAGCTA				
26557 T	A	S	TAGAATGACATTTCCAGAGGGAGCACCAAGCTAACGATATTCCTGAAAGTGGATGAAAGAAGCTA				
26557 IS	[GA]		TCTCTAGGGCTAAGCTCATCATTACCTAACTCATGCTCTTAGAATGACATTTCCAGAGGG[GA]GCACCAAGCTAACGAT ATTCCTGAAAGTGGATGAAAGAAGCTATGTCTCCCTGGGACAGA	ctg22fin4	22		
26700 I		A	GCATCCATAGAAGACAGTGCTGCTGTCTTTCCCAT				
26700 P	G	A	ATGACGTGGCAGACGGAGATAAGATTTACTCTCAGGY				
26700 P	C	A	CGCGCCGAGGCGAGATAAGATTTACTCTCAGGY				
26700 T	G	A	CACTCCTGAGAGTAAATCTTATCTCCTGGGAAAGACAGCAGCACTGTCTTCTATGGATGCAG				
26700 T	C	A	CACTCCTGAGAGTAAATCTTATCTCGTGGGAAAGACAGCAGCACTGTCTTCTATGGATGCAG				
26700 IS	[GC]		TAGTGTGTTAAATCTTCTCCTTTTCTGCATCCATAGAAGACAGTGCTGCTGTCTTTCCCA[GC]GAGATAAGATTTACTC TCAGGAGTGTCTTTTTCCTTCAGGTTACATTTTTGACTTTATAG	ctg13980	1		
26711 I		A	CTGGGGCTGAGATGAGGAGGCCTCCT				
26711 P	G	A	ATGACGTGGCAGACGAATCTAATCTTTATTTCTGCCCY				
26711 P	A	A	CGCGCCGAGGAAATCTAATCTTTATTTCTGCCCY				
26711 T	G	A	GGATGGGCAGAAATAAAGATTAGATTCGGAGGCCTCCTCATCTCAGCCCCAGCT				
26711 T	A	A	GGATGGGCAGAAATAAAGATTAGATTTGGAGGCCTCCTCATCTCAGCCCCAGCT				
26711 IS	[GA]		ACAGGCACCTCCGTCTTGGGTTTATGAAGAAGCAGCTGGGGCTGAGATGAGGAGGCCTCC[GA]AATCTAATCTTTATT TCTGCCCATCCTCCTGTATGTCATCAAGGGGAGGGAATGTTTCCT	ctg15665	20		
26756 I		S	CCTTAGTCTGATGGTGGAAGCACAGCCCTA				
26756 P	G	S	ATGACGTGGCAGACCTCTTGGAACAGAGCTCY				
26756 P	A	S	CGCGCCGAGGTTCTTGGAACAGAGCTCCY				
26756 T	G	S	TCTTGGAGCTCTGTTCCAAGAGAGGGCTGTGCTTCCACCATCAGACTAAGGCA				
26756 T	A	S	TCTTGGAGCTCTGTTCCAAGAAAGGGCTGTGCTTCCACCATCAGACTAAGGCA				
26756 IS	[GA]		CTCTGAATGACTTTCTGATGCCTGTCTCCCCCACCTGTCTCTTGGAGCTCTGTTCCAAGA[GA]AGGGCTGTGCTTCCA CCATCAGACTAAGGCATCTAAGGATGAGGGTTTTGTCTCTTCCGT	ctg16537	20		
26778 I		A	CAGGGCTGCAAGTGGGGCTTCCAGT				
26778 P	A	A	CGCGCCGAGGAGGCCTGGGGTTGY				
26778 P	C	A	ATGACGTGGCAGACCGGCCTGGGGTTY				
26778 T	A	A	TAATCAACCCCAGGCCTCTGGAAGCCCCACTTGCAGCCCTGGG				
26778 T	C	A	TAATCAACCCCAGGCCGCTGGAAGCCCCACTTGCAGCCCTGGG				
26778 IS	[AC]		GGGGGCCAGCGGGCAGGGAGGCGAGCGGGTTCCCTCCCAGGGCTGCAAGTGGGGCTTCCAG[AC]GGCCTGGGGTTG ATTAGGAGAACCCAGGAGGTCTGTGGTTAACCCCTTCCCTCCTGCTGG	ctg22fin4	22		
26790 I		S	CGGCAGAGCATCCGGAGTGGCCT				
26790 P	C	S	ATGACGTGGCAGACGTCGTCCCTGTGTTTGY				
26790 P	T	S	CGCGCCGAGGATCGTCCCTGTGTTTGTY				
26790 T	C	S	CTGCACAAACACAGGGACGACGGCCACTCCGGATGCTCTGCCGCC				
26790 T	T	S	CTGCACAAACACAGGGACGATGGCCACTCCGGATGCTCTGCCGCC				
26790 IS	[CT]		GCCCATGTTATCCAGGAATCACTGGCAAAGGCACACACAGCTGCACAAACACAGGGACGA[CT]GGCCACTCCGGATG CTCTGCCGCCCTCGGGGTTTCAAGAGCTTGACAAGAAACAACAGTC	ctg15665	20		
26895 I		A	AAGAGACCCTCAAGGAAGGCAGCCCTATGAT				
26895 P	A	A	CGCGCCGAGGAAAACTGATCTCAAGGTTTTTAATAY				
26895 P	G	A	ATGACGTGGCAGACGAAACTGATCTCAAGGTTTTTAATY				
26895 T	A	A	AGGGTATTAAAAACCTTGAGATCAGTTTTTCATAGGGCTGCCTTCCTTGAGGGTCTCTTCC				
26895 T	G	A	AGGGTATTAAAAACCTTGAGATCAGTTTCTCATAGGGCTGCCTTCCTTGAGGGTCTCTTCC				
26895 IS	[AG]		CATATTTAGATGCTGACACAAGTTTCCTGGAAGAGACCCTCAAGGAAGGCAGCCCTATGA[AG]AAACTGATCTCAAGG TTTTTAATACCCTCACTCCATGCACAGACTCTTGATTTTGATGTC	ctg13446	1		
27192 I		S	AGGATACTTATTACTTACATCATATATATGATATCATCTTGACATATTTGTCTACTGCTGC				
27192 P	A	S	CGCGCCGAGGTGTATTGTTAAAGCTCAGTTTTAAY				
27192 P	C	S	ATGACGTGGCAGACGGTATTGTTAAAGCTCAGTTTTAAY				
27192 T	A	S	ACTCTTAAAACTGAGCTTTAACAATACACAGCAGTAGACAAATATGTCAAGATGATATCATATATATGATGTAAGTAATA AGTATCCT				
27192 T	C	S	ACTCTTAAAACTGAGCTTTAACAATACCCAGCAGTAGACAAATATGTCAAGATGATATCATATATATGATGTAAGTAATA AGTATCCT				
27192 IS	[AC]		ACTTTTTTTTTTCCTGTTGGGCAGGTGAAATGGACTCTTAAAACTGAGCTTTAACAATAC[AC]CAGCAGTAGACAAATAT GTCAAGATGATATCATATATATGATGTAAGTAATAAGTATCCT	ctg13516	6		
27204 I		A	TTGGTGTAGGAGCTCTCCACCCTTGAAA				
27204 P	T	A	CGCGCCGAGGTAAAGTACAAATAATATTAGAATTAGGAGACY				
27204 P	C	A	ATGACGTGGCAGACCAAAGTACAAATAATATTAGAATTAGGAGY				
27204 T	T	A	ATATGTCTCCTAATTCTAATATTATTTGTACTTTATTCAAGGGTGGAGAGCTCCTACACCAATT				
27204 T	C	A	ATATGTCTCCTAATTCTAATATTATTTGTACTTTGTTCAAGGGTGGAGAGCTCCTACACCAATT				
27204 IS	[TC]		AGTAATTTTTCCCTGTAATAAAGGATAATTTAATTGGTGTAGGAGCTCTCCACCCTTGAA[TC]AAAGTACAAATAATATT AGAATTAGGAGACATATATTTTTAAAATTGATTCTCTTGTGTTC	ctg22fin4	22		
27329 I		A	GGCTTCCCCTGGGACCAACATAAACAAGAAGATGC				
27329 P	G	A	ATGACGTGGCAGACGCAGGGAATCTAAATTTGTGAY				
27329 P	T	A	CGCGCCGAGGTCAGGGAATCTAAATTTGTGAAY				
27329 T	G	A	TGCTTTCACAAATTTAGATTCCCTGCCATCTTCTTGTTTATGTTGGTCCCAGGGGAAGCCAG				
27329 T	T	A	TGCTTTCACAAATTTAGATTCCCTGACATCTTCTTGTTTATGTTGGTCCCAGGGGAAGCCAG				
27329 IS	[GT]		CTGCTATCACTGGACTGGGAGAGGCTGGCTTCCCCTGGGACCAACATAAACAAGAAGATG[GT]CAGGGAATCTAAATT TGTGAAAGCACAAAATCCAGATGAAGGAATGGGTCAGAGCTAGCA				
27355 I		A	GCTCTCACTGGGAGCTGTGTAGGACCCAGT				
27355 P	G	A	ATGACGTGGCAGACGGGGGAGCACACCY				
27355 P	C	A	CGCGCCGAGGCGGGGAGCACACCY				
27355 T	G	A	CTGGGGTGTGCTCCCCCCTGGGTCCTACACAGCTCCCAGTGAGAGCTG				
27355 T	C	A	CTGGGGTGTGCTCCCCGCTGGGTCCTACACAGCTCCCAGTGAGAGCTG				
27355 IS	[GC]		TAAGAGAGCCAACCCCAAGTAAGGAAGATCAGCTCTCACTGGGAGCTGTGTAGGACCCAG[GC]GGGGAGCACACCC CAGGAAAGGGCTGCCGGTGGATCCGGAGGCCTGACCTGGGGCCCAGG	ctg15478	1		
27384 I		S	CCTGCATTGCCCTTAATCCCCCCATCTCAA				
27384 P	G	S	ATGACGTGGCAGACCACGGGCTGCCAY				
27384 P	A	S	CGCGCCGAGGTACGGGCTGCCAGY				
27364 T	G	S	GGAACTGGCAGCCCGTGTGAGATGGGGGGATTAAGGGCAATGCAGGGG				
27384 T	A	S	GGAACTGGCAGCCCGTATGAGATGGGGGGATTAAGGGCAATGCAGGGG				
27384 IS	[GA]		TCTTTCCAAGTGTTGTCCCCAAACTCCTGGGACTCTTGGTTTTTGGAACTGGCAGCCCGT[GA]TGAGATGGGGGGATT AAGGGCAATGCAGGGGGGTGAGTACAAAGATTAAGGTCTGGGGAC	ctg15907	6		
27413 I		A	CACCTCTCTCCTTGTCCAAATCCCACTTATCCTTAAAGTTCTATGATAAA				
27413 P	T	A	CGCGCCGAGGTTCATATCCCCACCGCAY				
27413 P	C	A	ATGACGTGGCAGACCTCATATCCCACCGCAY				
27413 T	T	A	CAAATGCGGTGGGATATGAATTATCATAGAACTTTAAGGATAAGTGGGATTTGGACAAGGAGAGAGGTGAG				
27413 T	C	A	CAAATGCGGTGGGATATGAGTTATCATAGAACTTTAAGGATAAGTGGGATTTGGACAAGGAGAGAGGTGAG				
27413 IS	[TC]		AACTCTCTCCTCACCTCTCTCCTTGTCCAAATCCCACTTATCCTTAAAGTTCTATGATAA[TC]TCATATCCCACCGCATT TGTGAAGGCTGCACCTGCCCCAGCTCACTCTGGCTTTCGGCAC	ctg15907	6		

FIGURE 129D

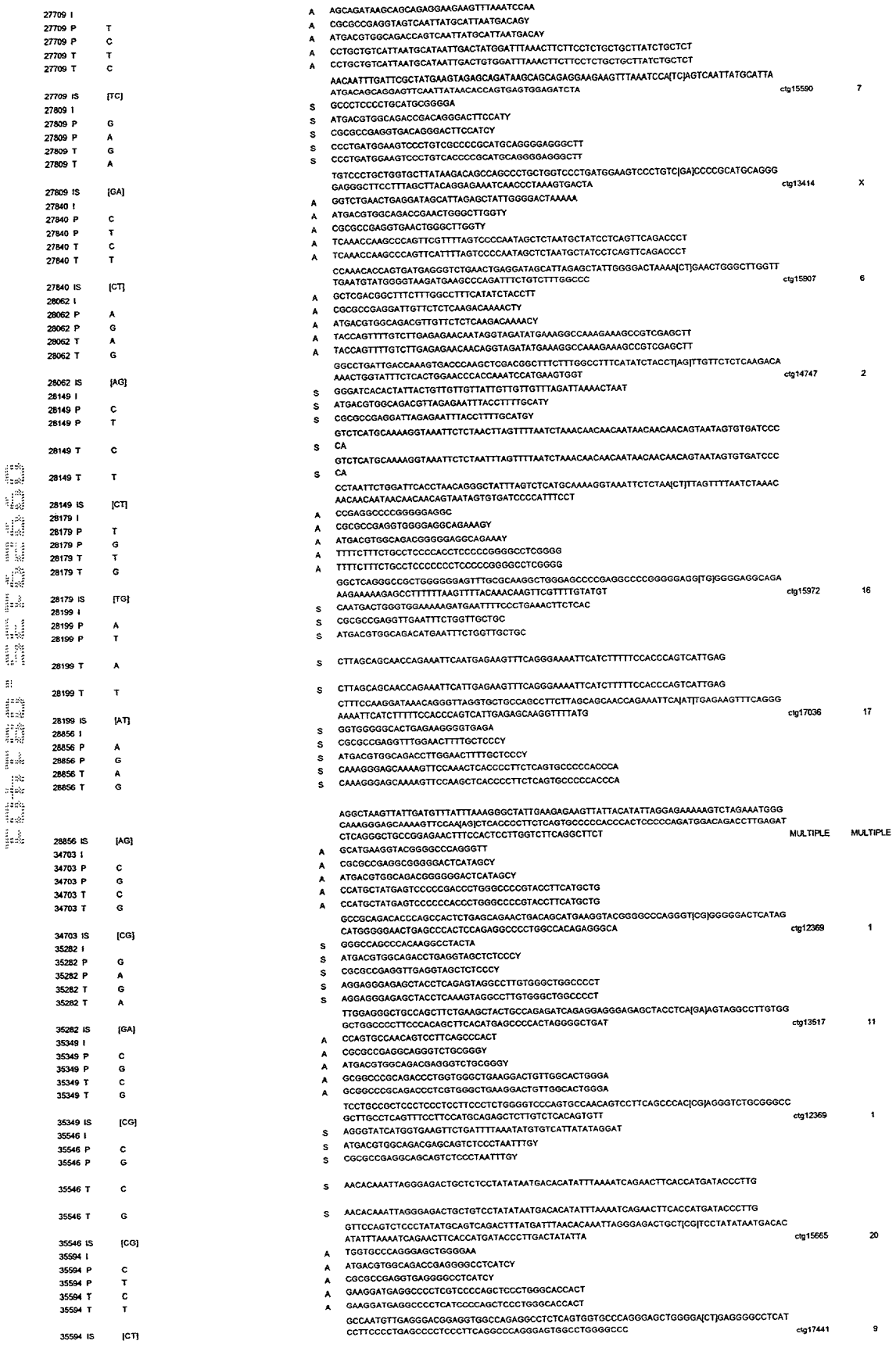

27709 I
27709 P T
27709 P C
27709 T T
27709 T C
27709 IS [TC]
27809 I
27809 P G
27809 P A
27809 T G
27809 T A
27809 IS [GA]
27840 I
27840 P C
27840 P T
27840 T C
27840 T T
27840 IS [CT]
28062 I
28062 P A
28062 P G
28062 T A
28062 T G
28062 IS [AG]
28149 I
28149 P C
28149 P T
28149 T C
28149 T T
28149 IS [CT]
28179 I
28179 P T
28179 P G
28179 T T
28179 T G
28179 IS [TG]
28199 I
28199 P A
28199 P T
28199 T A
28199 T T
28199 IS [AT]
28856 I
28856 P A
28856 P G
28856 T A
28856 T G
28856 IS [AG]
34703 I
34703 P C
34703 P G
34703 T C
34703 T G
34703 IS [CG]
35282 I
35282 P G
35282 P A
35282 T G
35282 T A
35282 IS [GA]
35349 I
35349 P C
35349 P G
35349 T C
35349 T G
35349 IS [CG]
35546 I
35546 P C
35546 P G
35546 T C
35546 T G
35546 IS [CG]
35594 I
35594 P C
35594 P T
35594 T C
35594 T T
35594 IS [CT]
A AGCAGATAAGCAGCAGAGGAAGAAGTTTAAATCCAA
A CGCGCCGAGGTAGTCAATTATGCATTAATGACAGY
A ATGACGTGGCAGACCAGTCAATTATGCATTAATGACAY
A CCTGCTGTCATTAATGCATAATTGACTATGGATTTAAACTTCTTCCTCTGCTGCTTATCTGCTCT
A CCTGCTGTCATTAATGCATAATTGACTGTGGATTTAAACTTCTTCCTCTGCTGCTTATCTGCTCT
AACAATTTGATTCGCTATGAAGTAGAGCAGATAAGCAGCAGAGGAAGAAGTTTAAATCCA[TC]AGTCAATTATGCATTA
ATGACAGCAGGAGTTCAATTATAACACCAGTGAGTGGAGATCTA ctg15590 7
S GCCCTCCCCTGCATGCGGGGA
S ATGACGTGGCAGACCGACAGGGACTTCCATY
S CGCGCCGAGGTGACAGGGACTTCCATCY
S CCCTGATGGAAGTCCCTGTCGCCCCGCATGCAGGGGAGGGCTT
S CCCTGATGGAAGTCCCTGTCACCCCGCATGCAGGGGAGGGCTT
TGTCCCTGCTGGTGCTTATAAGACAGCCAGCCCTGCTGGTCCCTGATGGAAGTCCCTGTC[GA]CCCCGCATGCAGGG
GAGGGCTTCCTTTAGCTTACAGGAGAAATCAACCCTAAAGTGACTA ctg13414 X
A GGTCTGAACTGAGGATAGCATTAGAGCTATTGGGGACTAAAAA
A ATGACGTGGCAGACCGAACTGGGCTTGGTY
A CGCGCCGAGGTGAACTGGGCTTGGTY
A TCAAACCAAGCCCAGTTCGTTTTAGTCCCCAATAGCTCTAATGCTATCCTCAGTTCAGACCCT
A TCAAACCAAGCCCAGTTCATTTTAGTCCCCAATAGCTCTAATGCTATCCTCAGTTCAGACCCT
CCAAACACCAGTGATGAGGGTCTGAACTGAGGATAGCATTAGAGCTATTGGGGACTAAAA[CT]GAACTGGGCTTGGTT
TGAATGTATGGGGTAAGATGAAGCCCAGATTTCTGTCTTTGGCCC ctg15907 6
A GCTCGACGGCTTTCTTTGGCCTTTCATATCTACCTT
A CGCGCCGAGGATTGTTCTCTCAAGACAAAACTY
A ATGACGTGGCAGACGTTGTTCTCTCAAGACAAAACY
A TACCAGTTTTGTCTTGAGAGAACAATAGGTAGATATGAAAGGCCAAAGAAAGCCGTCGAGCTT
A TACCAGTTTTGTCTTGAGAGAACAACAGGTAGATATGAAAGGCCAAAGAAAGCCGTCGAGCTT
GGCCTGATTGACCAAAGTGACCCAAGCTCGACGGCTTTCTTTGGCCTTTCATATCTACCT[AG]TTGTTCTCTCAAGACA
AAACTGGTATTTCTCACTGGAACCCACCAAATCCATGAAGTGGT ctg14747 2
S GGGATCACACTATTACTGTTGTTGTTATTGTTGTTGTTTAGATTAAAACTAAT
S ATGACGTGGCAGACGTTAGAGAATTTACCTTTTGCATY
S CGCGCCGAGGATTAGAGAATTTACCTTTTGCATGY
GTCTCATGCAAAAGGTAAATTCTCTAACTTAGTTTTAATCTAAACAACAACAATAACAACAACAGTAATAGTGTGATCCC
S CA
GTCTCATGCAAAAGGTAAATTCTCTAATTTAGTTTTAATCTAAACAACAACAATAACAACAACAGTAATAGTGTGATCCC
S CA
CCTAATTCTGGATTCACCTAACAGGGCTATTTAGTCTCATGCAAAAGGTAAATTCTCTAA[CT]TTAGTTTTAATCTAAAC
AACAACAATAACAACAACAGTAATAGTGTGATCCCCATTTCCT
A CCGAGGCCCCGGGGGAGGC
A CGCGCCGAGGTGGGGAGGCAGAAAGY
A ATGACGTGGCAGACGGGGGAGGCAGAAAY
A TTTTCTTTCTGCCTCCCCACCTCCCCCGGGGCCTCGGGG
A TTTTCTTTCTGCCTCCCCCCTCCCCCGGGGCCTCGGGG
GGCTCAGGGCCGCTGGGGGGAGTTTGCGCAAGGCTGGGAGCCCCGAGGCCCCGGGGGAGG[TG]GGGGAGGCAGA
AAGAAAAAGAGCCTTTTTTAAGTTTTACAAACAAGTTCGTTTTGTATGT ctg15972 16
S CAATGACTGGGTGGAAAAAGATGAATTTTCCCTGAAACTTCTCAC
S CGCGCCGAGGTTGAATTTCTGGTTGCTGC
S ATGACGTGGCAGACATGAATTTCTGGTTGCTGC
S CTTAGCAGCAACCAGAAATTCAATGAGAAGTTTCAGGGAAAATTCATCTTTTTCCACCCAGTCATTGAG
S CTTAGCAGCAACCAGAAATTCATTGAGAAGTTTCAGGGAAAATTCATCTTTTTCCACCCAGTCATTGAG
CTTTCCAAGGATAAACAGGGTTAGGTGCTGCCAGCCTTCTTAGCAGCAACCAGAAATTCA[AT]TGAGAAGTTTCAGGG
AAAATTCATCTTTTTCCACCCAGTCATTGAGAGCAAGGTTTTATG ctg17036 17
S GGTGGGGGCACTGAGAAGGGGTGAGA
S CGCGCCGAGGTTTGGAACTTTTGCTCCCY
S ATGACGTGGCAGACCTTGGAACTTTTGCTCCCY
S CAAAGGGAGCAAAAGTTCCAAACTCACCCCTTCTCAGTGCCCCCACCCA
S CAAAGGGAGCAAAAGTTCCAAGCTCACCCCTTCTCAGTGCCCCCACCCA
AGGCTAAGTTATTGATGTTTATTTAAAGGGCTATTGAAGAGAAGTTATTACATATTAGGAGAAAAAGTCTAGAAATGGG
CAAAGGGAGCAAAAGTTCCAA[AG]CTCACCCCTTCTCAGTGCCCCCACCCACTCCCCCAGATGGACAGACCTTGAGAT
CTCAGGGCTGCCGGAGAACTTTCCACTCCTTGGTCTTCAGGCTTCT MULTIPLE MULTIPLE
A GCATGAAGGTACGGGGCCCAGGGTT
A CGCGCCGAGGCGGGGGACTCATAGCY
A ATGACGTGGCAGACGGGGGGACTCATAGCY
A CCATGCTATGAGTCCCCCGACCCTGGGCCCCGTACCTTCATGCTG
A CCATGCTATGAGTCCCCCCACCCTGGGCCCCGTACCTTCATGCTG
GCCGCAGACACCCAGCCACTCTGAGCAGAACTGACAGCATGAAGGTACGGGGCCCAGGGT[CG]GGGGGACTCATAG
CATGGGGGAACTGAGCCCACTCCAGAGGCCCCTGGCCACAGAGGCA ctg12369 1
S GGGCCAGCCCACAAGGCCTACTA
S ATGACGTGGCAGACCTGAGGTAGCTCTCCCY
S CGCGCCGAGGTTGAGGTAGCTCTCCCY
S AGGAGGGAGAGCTACCTCAGAGTAGGCCTTGTGGGCTGGCCCCT
S AGGAGGGAGAGCTACCTCAAAGTAGGCCTTGTGGGCTGGCCCCT
TTGGAGGGCTGCCAGCTTCTGAAGCTACTGCCAGAGATCAGAGGAGGGAGAGCTACCTCA[GA]AGTAGGCCTTGTGG
GCTGGCCCCTTCCCACAGCTTCACATGAGCCCCACTAGGGGCTGAT ctg13517 11
A CCAGTGCCAACAGTCCTTCAGCCCACT
A CGCGCCGAGGCAGGGTCTGCGGGGY
A ATGACGTGGCAGACGAGGGTCTGCGGGY
A GCGGCCCGCAGACCCTGGTGGGCTGAAGGACTGTTGGCACTGGGA
A GCGGCCCGCAGACCCTCGTGGGCTGAAGGACTGTTGGCACTGGGA
TCCTGCCGCTCCCTCCCTCCTTCCCTCTGGGGTCCCAGTGCCAACAGTCCTTCAGCCCAC[CG]AGGGTCTGCGGGCC
GCTTGCCTCAGTTTCCTTCCATGCAGAGCTCTTGTCTCACAGTGTT ctg12369 1
S AGGGTATCATGGTGAAGTTCTGATTTTAAATATGTGTCATTATATAGGAT
S ATGACGTGGCAGACGAGCAGTCTCCCTAATTTGY
S CGCGCCGAGGCAGCAGTCTCCCTAATTTGY
S AACACAAATTAGGGAGACTGCTCTCCTATATAATGACACATATTTAAAATCAGAACTTCACCATGATACCCTTG
S AACACAAATTAGGGAGACTGCTGTCCTATATAATGACACATATTTAAAATCAGAACTTCACCATGATACCCTTG
GTTCCAGTCTCCCTATATGCAGTCAGACTTTATGATTTAACACAAATTAGGGAGACTGCT[CG]TCCTATATAATGACAC
ATATTTAAAATCAGAACTTCACCATGATACCCTTGACTATATTA ctg15665 20
A TGGTGCCCAGGGAGCTGGGGAA
A ATGACGTGGCAGACCGAGGGGCCTCATCY
A CGCGCCGAGGTGAGGGGCCTCATCY
A GAAGGATGAGGCCCCCTCGTCCCCAGCTCCCTGGGCACCACT
A GAAGGATGAGGCCCCCTCATCCCCAGCTCCCTGGGCACCACT
GCCAATGTTGAGGGACGGAGGTGGCCAGAGGCCTCTCAGTGGTGCCCAGGGAGCTGGGGA[CT]GAGGGGCCTCAT
CCTTCCCCTGAGCCCCTCCCTTCAGGCCCAGGGAGTGGCCTGGGGCCC ctg17441 9

FIGURE 129D

35680	I		S	CCAGGATCGGCGCAGAAAGGAGAGGAA		
35680	P	G	S	ATGACGTGGCAGACCAAAGGGCACATTTGAATAAY		
35680	P	A	S	CGCGCCGAGGTAAAGGGCACATTTGAATAACY		
35680	T	G	S	ACATGTTATTCAAATGTGCCCTTTGTCCTCTCCTTTCTGCGCCGATCCTGGGT		
35680	T	A	S	ACATGTTATTCAAATGTGCCCTTTATCCTCTCCTTTCTGCGCCGATCCTGGGT		
35680	IS	[GA]		AGTTTCTAAAGGAGTGCTTTCATGCTATTTCTATCCACATGTTATTCAAATGTGCCCTTT[GA]TCCTCTCCTTTCTGCGC CGATCCTGGGTCCCAGGTGTCTGAGACAGAGCGGGAAGACCTT	ctg12824	13
35706	I		S	GGGGAGAGCGGCACGGAGACAGTTCT		
35706	P	C	S	ATGACGTGGCAGACGTTACTTTAGAAGTGGCAACTY		
35706	P	T	S	CGCGCCGAGGATTACTTTAGAAGTGGCAACTY		
35706	T	C	S	AAACAGTTGCCACTTCTAAAGTAACGAACTGTCTCCGTGCCGCTCTCCCCGC		
35706	T	T	S	AAACAGTTGCCACTTCTAAAGTAATGAACTGTCTCCGTGCCGCTCTCCCCGC		
35706	IS	[CT]		TATGTAAGAGCAGCCGCTAGGTCACCGCCTGGCTGCAAACAGTTGCCACTTCTAAAGTAA[CT]GAACTGTCTCCGTGC CGCTCTCCCCGCGGGGTAGAGAAGGGATCCTGCAGCGACAGGTTT	ctg16114	X
35756	I		A	CCAGCCAGGCCCTGCTGATCAGAACT		
35756	P	G	A	ATGACGTGGCAGACGGCTATGTGAAGCAGGY		
35756	P	A	A	CGCGCCGAGGAGCTATGTGAAGCAGGAY		
35756	T	G	A	TGCCTCCTGCTTCACATAGCCGTTCTGATCAGCAGGGCCTGGCTGGGA		
35756	T	A	A	TGCCTCCTGCTTCACATAGCTGTTCTGATCAGCAGGGCCTGGCTGGGA		
35756	IS	[GA]		TGCCTTCATACATGGTCTGAGCTCCCATCCACCTCCCAGCCAGGCCCTGCTGATCAGAAC[GA]GCTATGTGAAGCAG GAGGCAGCAAACAGGGCCCCAGGCTCAAATAGGCACTTCGTAGTGG	ctg16574	1
35810	I		A	CAGTGATGAGGGTCTGAACTGAGGATAGCATTAGAGCTAA		
35810	P	T	A	CGCGCCGAGGTTGGGGACTAAAACGAACY		
35810	P	C	A	ATGACGTGGCAGACCTGGGGACTAAAACGAACY		
35810	T	T	A	CCCAGTTCGTTTTAGTCCCCAATAGCTCTAATGCTATCCTCAGTTCAGACCCTCATCACTGGT		
35810	T	C	A	CCCAGTTCGTTTTAGTCCCCAGTAGCTCTAATGCTATCCTCAGTTCAGACCCTCATCACTGGT		
35810	IS	[TC]		GGAGACCAAACATCCAAACACCAGTGATGAGGGTCTGAACTGAGGATAGCATTAGAGCTA[TC]TGGGGACTAAAACGA ACTGGGCTTGGTTTGAATGTATGGGGTAAGATGAAGCCCAGATTT	ctg15064	7
35942	I		S	GGTGGCATGGACCCCAGTGTGTCAGAA		
35942	P	A	S	CGCGCCGAGGTGGTGTCTCTGTCCTCY		
35942	P	G	S	ATGACGTGGCAGACCGGTGTCTCTGTCCTCY		
35942	T	A	S	TGATGAGGACAGAGACACCATCTGACACACTGGGGTCCATGCCACCTT		
35942	T	G	S	TGATGAGGACAGAGACACCGTCTGACACACTGGGGTCCATGCCACCTT		
35942	IS	[AG]		ACGTTCAGAGGTCAGGTCTGAGAACTGTGGGATGTTGCCTGTGATGAGGACAGAGACACC[AG]TCTGACACACTGGG GTCCATGCCACCTTTCTGCCTCCACTCCCTATAGAAGATGTTGGAG	ctg13284	10
36211	I		S	GCGGAGGTGGTGAGAGAGGGGAAAAGTT		
36211	P	G	S	CGCGCCGAGGCCATAGTTGTCACACACCY		
36211	P	C	S	ATGACGTGGCAGACGCATAGTTGTCACACACCY		
36211	T	G	S	TTCAGGTGTGTGACAACTATGGACTTTTCCCCTCTCTCACCACCTCCGCCC		
36211	T	C	S	TTCAGGTGTGTGACAACTATGCACTTTTCCCCTCTCTCACCACCTCCGCCC		
36211	IS	[GC]		CAGTACTCCTTGGTTATCTGGCACACTGCGAGCTGTGATTTCAGGTGTGTGACAACTATG[GC]ACTTTTCCCCTCTCT CACCACCTCCGCCCCAAATACTGTCACCTTCTGCCAGATTAGCAG	ctg15907	6
36443	I		A	GGGGAGTGCGGAGGGACTGAAGAGGT		
36443	P	G	A	ATGACGTGGCAGACGGTCACTGAGAGCTCTY		
36443	P	C	A	CGCGCCGAGGCGTCACTGAGAGCTCTY		
36443	T	G	A	CCCCAGAGCTCTCAGTGACCCCTCTTCAGTCCCTCCGCACTCCCCCC		
36443	T	C	A	CCCCAGAGCTCTCAGTGACGCCTCTTCAGTCCCTCCGCACTCCCCCC		
36443	IS	[GC]		TGCTCTCAAGAGATGAGGGGAGGTGTGTATGGTGGGGGGAGTGCGGAGGGACTGAAGAGG[GC]GTCACTGAGAGCT CTGGGGCCCCTCAGCTGTGCAGGGGTCCTGACTCCTGGGCAGGACCC	ctg15907	6
36486	I		S	CAAATCAGTTGAGACATGTCTTTAGAATATGGAATTTGTGCCTACATGGAC		
36486	P	A	S	CGCGCCGAGGTCCTTAAGAAACTGTTAACAAGGY		
36486	P	T	S	ATGACGTGGCAGACACCTTAAGAAACTGTTAACAAGY		
36486	T	A	S	CAATCCTTGTTAACAGTTTCTTAAGGATCCATGTAGGCACAAATTCCATATTCTAAAGACATGTCTCAACTGATTTGGA		
36486	T	T	S	CAATCCTTGTTAACAGTTTCTTAAGGTTCCATGTAGGCACAAATTCCATATTCTAAAGACATGTCTCAACTGATTTGGA		
36486	IS	[AT]		TCCCCTTAGTTTCCTTACATTTCCTCTCCTAAGGCAATCCTTGTTAACAGTTTCTTAAGG[AT]TCCATGTAGGCACAAAT TCCATATTCTAAAGACATGTCTCAACTGATTTGGATGCATTTG	ctg13740	5
36966	I		A	CCAGCCAGCAAGGGGAGTCTGTGACTA		
36966	P	T	A	CGCGCCGAGGTACAAAGAATCATAGAACCTGAGY		
36966	P	C	A	ATGACGTGGCAGACCACAAAGAATCATAGAACCTGAY		
36966	T	T	A	GGCTCTCAGGTTCTATGATTCTTTGTAAGTCACAGACTCCCCTTGCTGGCTGGGA		
36966	T	C	A	GGCTCTCAGGTTCTATGATTCTTTGTGAGTCACAGACTCCCCTTGCTGGCTGGGA		
36966	IS	[TC]		CAGAGATTTGCCATCTAAGACCCCAAAGAGGGTCCCAGCCAGCAAGGGGAGTCTGTGACT[TC]ACAAAGAATCATAGA ACCTGAGAGCCCAAGCACTCTTAGACACTTAGCTCATACTTTTCA	ctg15665	20
36995	I		S	GATGCTTGGTGAACACAGACCTTCACGTGGAA		
36995	P	G	S	ATGACGTGGCAGACCGGGGCCATTCCTY		
36995	P	A	S	CGCGCCGAGGTGGGGCCATTCCTTCY		
36995	T	G	S	AGTAGAAGGAATGGCCCCGTCCACGTGAAGGTCTGTGTTCACCAAGCATCTT		
36995	T	A	S	AGTAGAAGGAATGGCCCCATCCACGTGAAGGTCTGTGTTCACCAAGCATCTT		
36995	IS	[GA]		CTGCCAGGAAAGAGCATGGCACAGCCTCGTTCTCCAGCGTAGAGTAGAAGGAATGGCCCC[GA]TCCACGTGAAGGTC TGTGTTCACCAAGCATCTTCTGTAGAAAAATGCTCTCTTCGCCTGA		
37280	I		S	GCCAGCGAGTCGCAGGGCAGCT		
37280	P	C	S	ATGACGTGGCAGACGTCGCCCAGGCATY		
37280	P	T	S	CGCGCCGAGGATCGCCCAGGCATCY		
37280	T	C	S	CCTGGATGCCTGGGCGACGCTGCCCTGCGACTCGCTGGCCT		
37280	T	T	S	CCTGGATGCCTGGGCGATGCTGCCCTGCGACTCGCTGGCCT		
37280	IS	[CT]		GTGAGGAGGGTCCTGCCTGCACCGCTTTGCAGACATGGGCCAGCCTGGATGCCTGGGCGA[CT]GCTGCCCTGCGAC TCGCTGGCCTGCAGGACATCTGCAAAACATTCAGGTCTCACGGCAGT	ctg13516	6
38340	I		A	ATGGACCGTGGTTTGTTACTATAGTGTTCCTCATGGCT		
38340	P	G	A	ATGACGTGGCAGACGAGCAGATGGAACCGY		
38340	P	C	A	CGCGCCGAGGCAGCAGATGGAACCGY		
38340	T	G	A	CTCCCGGTTCCATCTGCTCGCCATGAGGAACACTATAGTAACAAACCACGGTCCATGA		
38340	T	C	A	CTCCCGGTTCCATCTGCTGGCCATGAGGAACACTATAGTAACAAACCACGGTCCATGA		
38340	IS	[GC]		GCTGAAAGTTACAAAAATGCTTCATGGACCGTGGTTTGTTACTATAGTGTTCCTCATGGC[GC]AGCAGATGGAACCGG GAGACATGGAGTCCCTGGCCAGTGTGAGTCCTAGCATTGCAGGAG	ctg13934	8
38342	I		A	CCTGGGCTCTTGTGTGCCTCACAGCAT		
38342	P	G	A	ATGACGTGGCAGACGGTCAGAGTGAGTCTGGY		
38342	P	A	A	CGCGCCGAGGAGTCAGAGTGAGTCTGGY		
38342	T	G	A	GGGACCAGACTCACTCTGACCTGCTGTGAGGCACACAAGAGCCCAGGCA		
38342	T	A	A	GGGACCAGACTCACTCTGACTTGCTGTGAGGCACACAAGAGCCCAGGCA		
38342	IS	[GA]		CCCCATGCCAGTCTTCTCAAGGCGGCAGCCTCTGCCTGGGCTCTTGTGTGCCTCACAGCA[GA]GTCAGAGTGAGTCT GGTCCCTATGGGGGGTGGTGGTGGGTGCGGCATTTGAGCTGCACCG	ctg15330	9
38427	I		S	GCTGCTGCTGTGCAGACCATGGATGCT		
38427	P	C	S	ATGACGTGGCAGACGTAGCTGAGTTCCTGCY		
38427	P	T	S	CGCGCCGAGGATAGCTGAGTTCCTGCCY		
38427	T	C	S	CAGGGGCAGGAACTCAGCTACGCATCCATGGTCTGCACAGCAGCAGCCC		
38427	T	T	S	CAGGGGCAGGAACTCAGCTATGCATCCATGGTCTGCACAGCAGCAGCCC		

FIGURE 129D

				GGGTAAGTCACTTCCCTGTCTTTCTGAGACTCTAGGAAATCAGGGGCAGGAACTCAGCTA[CT]GCATCCATGGTCTGC			
38427 IS	[CT]			ACAGCAGCAGCCCAGATAAGTTCCAAGAGCTGCAGAGGCTGTCAG	ctg15907	6	
38449 I		S		GAAAGGGAAGGGGACGGACAGGGAGGT			
38449 P	C	S		ATGACGTGGCAGACGGAGAGAGAGGGAAGAGY			
38449 P	G	S		CGCGCCGAGGCGAGAGAGAGGGAAGAGY			
38449 T	C	S		TCTCCTCTTCCCTCTCTCTCCCCTCCCTGTCCGTCCCCTTCCCTTTCTG			
38449 T	G	S		TCTCCTCTTCCCTCTCTCTCGCCTCCCTGTCCGTCCCCTTCCCTTTCTG			
				CCCCACCTCTCTCCTCCTCCCTCTCAGCCCCCTCCCTCTGTCTCCTCTTCCCTCTCTCTC[CG]CCTCCCTGTCCGTCC			
38449 IS	[CG]			CCTTCCCTTTCTGCCCCTCCCTCTGTCCCTCTCCCAGTCTCTCCC	ctg15907	6	
38695 I		S		GGGTCTGATGGGGTTTCACCCTGGAATAGTGTA			
38695 P	G	S		ATGACGTGGCAGACCAGCAGAAATCATGTTTTCAAY			
38695 P	A	S		CGCGCCGAGGTAGCAGAAATCATGTTTTCAAGY			
38695 T	G	S		TCTCCTTGAAAACATGATTTCTGCTGACACTATTCCAGGGTGAAACCCCATCAGACCCCA			
38695 T	A	S		TCTCCTTGAAAACATGATTTCTGCTAACACTATTCCAGGGTGAAACCCCATCAGACCCCA			
				GTAATCTTAATTTTCTAGGGGTGGATGATATGCATTCTCCTTGAAAACATGATTTCTGCT[GA]ACACTATTCCAGGGTG			
38695 IS	[GA]			AAACCCCATCAGACCCCAGAACAAGGAAGGCCCTGCACCCCCAC	ctg14391	11	
38702 I		S		CCCCTACCACGTGCCAGGCTGCT			
38702 P	T	S		CGCGCCGAGGACTGCGTGCAGATGY			
38702 P	C	S		ATGACGTGGCAGACGCTGCGTGCAGATGY			
38702 T	T	S		GGGGCATCTGCACGCAGTGCAGCCTGGCACGTGGTAGGGGAT			
38702 T	C	S		GGGGCATCTGCACGCAGCGCAGCCTGGCACGTGGTAGGGGAT			
				TGGGCTCCATGTCACCTGGCTCCCTCCAGTCCCCGTGAGCGCAGGGGCATCTGCACGCAG[TC]GCAGCCTGGCACG			
38702 IS	[TC]			TGGTAGGGGATGAATGTATGTCTCTTGGTTACATGAGAGAAAGCAGC	ctg12581	4	KIAA0135
39306 I		S		CATGAAATCAACATTAGAAAATAAGGTAGAAAACTGAGTGTTTTGCTTAAAT			
39306 P	T	S		CGCGCCGAGGAAATAAAAAAGGATTAAATAGCTGTTGY			
39306 P	G	S		ATGACGTGGCAGACCAATAAAAAAGGATTAAATAGCTGTTY			
				GATACAACAGCTATTTAATCCTTTTTTATTTTTTAAGCAAAACACTCAGTTTTCTACCTTATTTTCTAATGTTGATTTCAT			
39306 T	T	S		GGT			
				GATACAACAGCTATTTAATCCTTTTTTATTGTTTAAGCAAAACACTCAGTTTTCTACCTTATTTTCTAATGTTGATTTCAT			
39306 T	G	S		GGT			
				TGTAGAGATGGAAGCAGAACGTGATGTTTGGATACAACAGCTATTTAATCCTTTTTTATT[TG]TTTAAGCAAAACACTCA			
39306 IS	[TG]			GTTTTCTACCTTATTTTCTAATGTTGATTTCATGGTAATACTG	ctg14189	19	
39442 I		S		CAAGGACATGCATATGATGGCTTTCAGAGCTCTGAGTTTAGT			
39442 P	T	S		CGCGCCGAGGATGTTTCCAAACACACATGY			
39442 P	C	S		ATGACGTGGCAGACGTGTTTCCAAACACACATGY			
39442 T	T	S		TGTGCATGTGTGTTTGGAAACATCTAAACTCAGAGCTCTGAAAGCCATCATATGCATGTCCTTGGG			
39442 T	C	S		TGTGCATGTGTGTTTGGAAACACCTAAACTCAGAGCTCTGAAAGCCATCATATGCATGTCCTTGGG			
				GAAACTGTTGGAAAACCAAGGAAAATGGCCACAGGGTATGTGCATGTGTGTTTGGAAACA[TC]CTAAACTCAGAGCTC			
39442 IS	[TC]			TGAAAGCCATCATATGCATGTCCTTGGGATGTCCCCTGCCTCCCT	ctg15907	6	
39619 I		S		GCAGAGACCAGTGCCCTGCCCACA			
39619 P	A	S		CGCGCCGAGGTGGCTTCGGGGAGY			
39619 P	G	S		ATGACGTGGCAGACCGGCTTCGGGGAGY			
39619 T	A	S		CGAGCTCCCCGAAGCCAGTGGGCAGGGCACTGGTCTCTGCCA			
39619 T	G	S		CGAGCTCCCCGAAGCCGGTGGGCAGGGCACTGGTCTCTGCCA			
				TGGCTCACCTTCCACCAGTAGCACCATCCCCACAGCCAGCACCTCGAGCTCCCCGAAGCC[AG]GTGGGCAGGGCACT			
39619 IS	[AG]			GGTCTCTGCCATCCTCACTCTCCCTCACTGCCAGTGGCCCAGCTGT	ctg13446	1	
39756 I		S		AGTCACTGCTTCTCTGACCCTTCCCTCATTCTCTACT			
39756 P	C	S		ATGACGTGGCAGACGTCGTGGAATTGCTGGY			
39756 P	T	S		CGCGCCGAGGATCGTGGAATTGCTGGY			
39756 T	C	S		GCTCCCAGCAATTCCACGACGTAGAGAATGAGGGAAGGGTCAGAGAAGCAGTGACTTG			
39756 T	T	S		GCTCCCAGCAATTCCACGATGTAGAGAATGAGGGAAGGGTCAGAGAAGCAGTGACTTG			
				TGTGTGCCAGTGGGTTCTGTACACACATGATCCCAGTTAACGCTCCCAGCAATTCCACGA[CT]GTAGAGAATGAGGGA			
39756 IS	[CT]			AGGGTCAGAGAAGCAGTGACTTGGTTGAAATCTTGCTGCCCAGTG	ctg22fin4	22	
39773 I		A		GGCACTGGAGTGTGGGAACTGGGCT			
39773 P	G	A		ATGACGTGGCAGACGGTCTCCCACAGAGGY			
39773 P	A	A		CGCGCCGAGGAGTCTCCCACAGAGGY			
39773 T	G	A		GTGCCCTCTGTGGGAGACCGCCCAGTTCCCACACTCCAGTGCCCT			
39773 T	A	A		GTGCCCTCTGTGGGAGACTGCCCAGTTCCCACACTCCAGTGCCCT			
				CAGCCGGCAGCAGTTATGCAAATGTTCCTGTCCCAGGGCACTGGAGTGTGGGAACTGGGC[GA]GTCTCCCACAGAG			
39773 IS	[GA]			GGCACAAAGGCATCAAGGGGGGGCGGGGAGGCACCCCGGTGGGTCTA	ctg13446	1	
40026 I		S		GTATCTTCTTGAGCTAGGCTCCCTAGTGCCCAA			
40026 P	A	S		CGCGCCGAGGTGAGTCAGTCCCTCTAGAY			
40026 P	G	S		ATGACGTGGCAGACCGAGTCAGTCCCTCTAGY			
40026 T	A	S		GTGATCTAGAGGGACTGACTCATGGGCACTAGGGAGCCTAGCTCAAGAAGATACAC			
40026 T	G	S		GTGATCTAGAGGGACTGACTCGTGGGCACTAGGGAGCCTAGCTCAAGAAGATACAC			
				TGGCGATTTTGCAAAATCCCTGTTCCCTCCATACCCCTGGTGATCTAGAGGGACTGACTC[AG]TGGGCACTAGGGAG			
40026 IS	[AG]			CCTAGCTCAAGAAGATACACTTGAACAGGGACAGAGCTCTTCAGGG	ctg22fin10	22	
40032 I		A		CACAGTCCCTGCCTGTGTCCCCCT			
40032 P	C	A		ATGACGTGGCAGACCACTCTTGACTGTCCCCY			
40032 P	A	A		CGCGCCGAGGAACTCTTGACTGTCCCCY			
40032 T	C	A		AGTGGGGGACAGTCAAGAGTGGGGGGACACAGGCAGGGACTGTGCG			
40032 T	A	A		AGTGGGGGACAGTCAAGAGTTGGGGGACACAGGCAGGGACTGTGCG			
				GTGCATACTCGTTGAGTCTTTGTGTTGGGTGGAGTCGCACAGTCCCTGCCTGTGTCCCCC[CA]ACTCTTGACTGTCCC			
40032 IS	[CA]			CCACTTCCCTAGCCTCCCTCTCCTGGGCACTCAGAAGCTCTGCTC	ctg18037	7	
40045 I		S		AAGGAGGGACCAGGGCAGGCAGAT			
40045 P	C	S		ATGACGTGGCAGACGATCCCAGCCCAGGY			
40045 P	G	S		CGCGCCGAGGCATCCCAGCCCAGGY			
40045 T	C	S		GCATCCTGGGCTGGGATCTCTGCCTGCCCTGGTCCCTCCTTGC			
40045 T	G	S		GCATCCTGGGCTGGGATGTCTGCCTGCCCTGGTCCCTCCTTGC			
				GTGGCCACGGTGCTCTTCCAAGCTCCCTGCCAGACCGCCATGGGCATCCTGGGCTGGGAT[CG]TCTGCCTGCCCTG			
40045 IS	[CG]			GTCCCTCCTTGCACCTTTTTCTCACAGTCTTCAGGAGGGATCTCCTG	ctg15842	19	
40093 I		A		CCCCAAATGGTCTGATTCAGGACAGCTGGGT			
40093 P	A	A		CGCGCCGAGGAATAAGAGTGTGGCTGGY			
40093 P	G	A		ATGACGTGGCAGACGATAAGAGTGTGGCTGGY			
40093 T	A	A		TCTGCCAGCCACACTCTTATTCCCAGCTGTCCTGAATCAGACCATTTGGGGTC			
40093 T	G	A		TCTGCCAGCCACACTCTTATCCCCAGCTGTCCTGAATCAGACCATTTGGGGTC			
				TTCTAAGAAGGCCTTTACAGAGCAATAAGACCCCAAATGGTCTGATTCAGGACAGCTGGG[AG]ATAAGAGTGTGGCTG			
40093 IS	[AG]			GCAGAATCGAGGGGCTGTTCTTTAGGACAGCTACCTGCTTTGCTT	ctg19262	19	
40129 I		A		CCAGGAGCCCTGCACCAAGACAGCT			
40129 P	G	A		ATGACGTGGCAGACGGCCGTGAGGGAGY			
40129 P	A	A		CGCGCCGAGGAGCCGTGAGGGAGY			
40129 T	G	A		CTCCCTCCCTCACGGCCGCTGTCTTGGTGCAGGGCTCCTGGTC			
40129 T	A	A		CTCCCTCCCTCACGGCTGCTGTCTTGGTGCAGGGCTCCTGGTC			
				AGTGGCAGTGCTGGGTGAGAAGAAGGTGGGAGATGACCAGGAGCCCTGCACCAAGACAGC[GA]GCCGTGAGGGAG			
40129 IS	[GA]			GGAGAGAGTGTGGGGTGCACAGCAGAAGGTGGATGTTTGGGGCTGTCT	ctg18466	16	
40203 I		S		ACATGGATGAGTCTGCTGACCTGGATGGGTA			
40203 P	G	S		ATGACGTGGCAGACCCGGACGCACTCTCY			
40203 P	A	S		CGCGCCGAGGTCGGACGCACTCTCY			
40203 T	G	S		GCAAGAGAGTGCGTCCGGACCCATCCAGGTCAGCAGACTCATCCATGTCA			

FIGURE 129D

40203 T	A	S	GCAAGAGAGTGCGTCCGAACCCATCCAGGTCAGCAGACTCATCCATGTCA				
40203 IS	[GA]		TTAGTAGCTCCTTTCTCTCCTTCCCACTTCTCAGAACACACAGGCAAGAGAGTGCGTCCG[GA]ACCCATCCAGGTCAG CAGACTCATCCATGTCAAATACAGCTCACATTGGTATCTCCTGCC	ctg18297	19		
40230 I		A	TGTTGCAGAAATTCCCAGCATTGGCTGGCT				
40230 P	C	A	CGCGCCGAGGCGCTGGAGGGGAAGY				
40230 P	G	A	ATGACGTGGCAGACGGCTGGAGGGGAAGY				
40230 T	C	A	CCTGCTTCCCCTCCAGCGGCCAGCCAATGCTGGGAATTTCTGCAACAGT				
40230 T	G	A	CCTGCTTCCCCTCCAGCCGCCAGCCAATGCTGGGAATTTCTGCAACAGT				
40230 IS	[CG]		AGGTGAAAATCAGCAGCCTTTTACTGCTTACTGTTGCAGAAATTCCCAGCATTGGCTGGC[CG]GCTGGAGGGGAAGC AGGAAGGTAGGTGTGCCTCTAGCTCCCTCTACAGGGCTGTGCCCCA	ctg25099	7		
40630 I		A	GAGAAAATACCAAGGCAGATCAAAGGCTAGCTGATCACTGT				
40630 P	A	A	CGCGCCGAGGACTACGTTATCTCTTTTTTGTGAY				
40630 P	G	A	ATGACGTGGCAGACGCTACGTTATCTCTTTTTTGTGY				
40630 T	A	A	ATAGTCACAAAAAAGAGATAACGTAGTCAGTGATCAGCTAGCCTTTGATCTGCCTTGGTATTTTCTCTG				
40630 T	G	A	ATAGTCACAAAAAAGAGATAACGTAGCCAGTGATCAGCTAGCCTTTGATCTGCCTTGGTATTTTCTCTG				
40630 IS	[AG]		TAAGTGGTGAGACCTTCCCAGAGAAAATACCAAGGCAGATCAAAGGCTAGCTGATCACTG[AG]CTACGTTATCTCTTTT TTGTGACTATTAATAATTTTAAGGTGAAGGCTTGTCTTTCTGAC	ctg16508	19		
40851 I		S	CCCCTGAAGAACATATCTGATCCCCAGAAAGAAAGAGTCAT				
40851 P	C	S	ATGACGTGGCAGACGTCTAAGTGGAGGGAGGY				
40851 P	T	S	CGCGCCGAGGATCTAAGTGGAGGGAGGY				
40851 T	C	S	TCTTCCTCCCTCCACTTAGACTGACTCTTTCTTTCTGGGGATCAGATATGTTCTTCAGGGGAG				
40851 T	T	S	TCTTCCTCCCTCCACTTAGATTGACTCTTTCTTTCTGGGGATCAGATATGTTCTTCAGGGGAG				
40851 IS	[CT]		GCTCTAACAGGCAGCCCAGCCCAGCTCATTCAGCTGCTTTTCTTCCTCCCTCCACTTAGA[CT]TGACTCTTTCTTTCTG GGGATCAGATATGTTCTTCAGGGGAGCAGTTCTCAGCAGGTACA	ctg16508	19		
40867 I		A	TGGAGCCCCATCATGGCAGGTACAAAGTAGTC				
40867 P	T	A	CGCGCCGAGGTCCTCATCCTTATTTACATGCY				
40867 P	A	A	ATGACGTGGCAGACACCTCATCCTTATTTACATGCY				
40867 T	T	A	GCTTGCATGTAAATAAGGATGAGGAACTACTTTGTACCTGCCATGATGGGGCTCCAAG				
40867 T	A	A	GCTTGCATGTAAATAAGGATGAGGTACTACTTTGTACCTGCCATGATGGGGCTCCAAG				
40867 IS	[TA]		TATACTGAATGACTCACACCTCTTGGGCTTGGAGCCCCATCATGGCAGGTACAAAGTAGT[TA]CCTCATCCTTATTTAC ATGCAAGCCATCAGACTTCTTTTTAAGTTGCACTCTTGGGTTTA	ctg15140	12		
40934 I		A	GCAGCAGATGGCAGGCGTGAGCCA				
40934 P	T	A	CGCGCCGAGGTAGCTGCCCAGGGY				
40934 P	C	A	ATGACGTGGCAGACCAGCTGCCCAGGGY				
40934 T	T	A	CCAGCCCTGGGCAGCTAGGCTCACGCCTGCCATCTGCTGCAG				
40934 T	C	A	CCAGCCCTGGGCAGCTGGGCTCACGCCTGCCATCTGCTGCAG				
40934 IS	[TC]		ATGGGCTGGGGCTGGGCTCTCTGGTCATCCCGTCCCTGCAGCAGATGGCAGGCGTGAGCC[TC]AGCTGCCCAGGGC TGGGAGCTGCAAGCTGCTGTCTGTCCACCAGGTGTCAGTGTGGGTCT	ctg12325	11		
41671 I		S	GCAGCTTCACTATGAGGAGGGCTCTCCCA				
41671 P	G	S	ATGACGTGGCAGACCGGAACCTGGGTACTCY				
41671 P	A	S	CGCGCCGAGGTGGAACCTGGGTACTCY				
41671 T	G	S	GTGGGAGTACCCAGGTTCCGGGGAGAGCCCTCCTCATAGTGAAGCTGCCC				
41671 T	A	S	GTGGGAGTACCCAGGTTCCAGGGAGAGCCCTCCTCATAGTGAAGCTGCCC				
41671 IS	[GA]		TCTTCTTGGTAGGTGTGATGCTGGGGCGTGGAGTGGAGGAGGTGGGAGTACCCAGGTTCC[GA]GGGAGAGCCCTCC TCATAGTGAAGCTGCCCAGGGGTGGGAGAGAGAAGAGACAGAGCCTC	ctg21fin5	21	KIAA0285	
41718 I		S	CCCCACCTTCCAGCGGGCCTGT				
41718 P	C	S	ATGACGTGGCAGACGTGAGACGTTTCCTCCTY				
41718 P	T	S	CGCGCCGAGGATGAGACGTTTCCTCCTY				
41718 T	C	S	CTGCAGGAGGAAACGTCTCACCAGGCCCGCTGGAAGGTGGGGTG				
41718 T	T	S	CTGCAGGAGGAAACGTCTCATCAGGCCCGCTGGAAGGTGGGGTG				
41718 IS	[CT]		CCACAGGCCTGGGAGCTGCCCCATCTCCACCAAGTTCAGGCTGCAGGAGGAAACGTCTCA[CT]CAGGCCCGCTGGA AGGTGGGGTGGTGATGAAATGTGGGGGTTCTTCAGCGAGAGTGGAAT	ctg16687	15		
41746 I		S	GGAGAGGCAGTGCCGAGCTTGCCT				
41746 P	T	S	CGCGCCGAGGAAGGATTAGAGCCTCCCY				
41746 P	C	S	ATGACGTGGCAGACGAGGATTAGAGCCTCCCY				
41746 T	T	S	AGGTGGGAGGCTCTAATCCTTGGCAAGCTCGGCACTGCCTCTCCTG				
41746 T	C	S	AGGTGGGAGGCTCTAATCCTCGGCAAGCTCGGCACTGCCTCTCCTG				
41746 IS	[TC]		GCTGGGTGATCAAGCTGCAACTTGCATAACGGGAGCAAGAAGGTGGGAGGCTCTAATCCT[TC]GGCAAGCTCGGCAC TGCCTCTCCTGTTAGGTGAATGGGCAGATCTGCTTCCCAGGCTGCG	ctg17003	14		
41766 I		A	CGCTGCAGCAGAGGGCCAGGAGT				
41766 P	G	A	ATGACGTGGCAGACGGTCCAAGCAGTGCY				
41766 P	A	A	CGCGCCGAGGAGTCCAAGCAGTGCTY				
41766 T	G	A	TCACAGCACTGCTTGGACCCTCCTGGCCCTCTGCTGCAGCGCT				
41766 T	A	A	TCACAGCACTGCTTGGACTCTCCTGGCCCTCTGCTGCAGCGCT				
41766 IS	[GA]		GAGAACCACATGGAGCAGATATGGGCGGTGCAGCAGAGCGCTGCAGCAGAGGGCCAGGAG[GA]GTCCAAGCAGTGC TGTGATCATCCGACTCTCTAACCATGAACTCACCTAGAGATGCATTC	ctg17003	14		
41784 I		A	GGGTCACATAGTGAGGGGAGGCAAGGCC				
41784 P	A	A	CGCGCCGAGGAGCGTAAGGCAGTGGY				
41784 P	T	A	ATGACGTGGCAGACTGCGTAAGGCAGTGGY				
41784 T	A	A	TCAGCCACTGCCTTACGCTGCCTTGCCTCCCCTCACTATGTGACCCAC				
41784 T	T	A	TCAGCCACTGCCTTACGCAGCCTTGCCTCCCCTCACTATGTGACCCAC				
41784 IS	[AT]		GCAGCCCAGTTGTCACTTGTAACAAACCCCAGTGGGTCACATAGTGAGGGGAGGCAAGGC[AT]GCGTAAGGCAGTGG CTGAACTATCCCAGAAAACAAGGATCACAGGCCCCCAGTGACACCA	ctg17003	14		
41898 I		S	ACGGATGCAGAAGAAATGGAAGCAGGAACT				
41898 P	T	S	CGCGCCGAGGATGTATTATTACTCTTTTAGCTGAGAY				
41898 P	C	S	ATGACGTGGCAGACGTGTATTATTACTCTTTTAGCTGAGY				
41898 T	T	S	AAGATCTCAGCTAAAAGAGTAATAATACATGTTCCTGCTTCCATTTCTTCTGCATCCGTAA				
41898 T	C	S	AAGATCTCAGCTAAAAGAGTAATAATACACGTTCCTGCTTCCATTTCTTCTGCATCCGTAA				
41898 IS	[TC]		ATTCATTTTGAGTAACAAAAAAGATTTTCCTAAGATCTCAGCTAAAAGAGTAATAATACA[TC]GTTCCTGCTTCCATTTCT TCTGCATCCGTAAAATTATTAATAATCACTTAGCTGCCACCA	ctg2846	11		
41965 I		A	CCAGCTCCCACAGGGCAAGGCTCT				
41965 P	G	A	ATGACGTGGCAGACGTGCCCTGAGGCAY				
41965 P	A	A	CGCGCCGAGGATGCCCTGAGGCAGY				
41965 T	G	A	ATGTCTGCCTCAGGGCACGAGCCTTGCCCTGTGGGAGCTGGGA				
41965 T	A	A	ATGTCTGCCTCAGGGCATGAGCCTTGCCCTGTGGGAGCTGGGA				
41965 IS	[GA]		AGTTCTTTAAGTGTGAAATTCTCTGAGTAACACAATCCCAGCTCCCACAGGGCAAGGCTC[GA]TGCCCTGAGGCAGAC ATATGGCTGATACACTTTCCCTTTTTGTCTTCCCAAAGGGAGTCT	ctg22fin3	22		
41998 I		S	GCCTGAAGCGAATGTGGCCAGCGAAGC				
41998 P	C	S	ATGACGTGGCAGACGCCTCCTGGACCGY				
41998 P	A	S	CGCGCCGAGGTCCTCCTGGACCGAY				
41998 T	C	S	GGGGTCGGTCCAGGAGGCCTTCGCTGGCCACATTCGCTTCAGGCCC				
41998 T	A	S	GGGGTCGGTCCAGGAGGACTTCGCTGGCCACATTCGCTTCAGGCCC				
41998 IS	[CA]		GCCTGCACCCCGCCGACCAGCACCCGTCGCGGGGAGCCACAAGGGGGTCGGTCCAGGAGG[CA]CTTCGCTGGCCA CATTCGCTTCAGGCCCTGGTTTGTGAGGTTTCTTCTCTCTCCCTGCCC	ctg22fin3	22		
42054 I		A	GTCTCTTTGTTGCCACTTGCCCAGTTTTGACCTTTTAATTTT				
42054 P	C	A	ATGACGTGGCAGACCCAGTGGCTTAAAATTAATGATTY				
42054 P	A	A	CGCGCCGAGGACAGTGGCTTAAAATTAATGATTTY				

FIGURE 129D

42054 T	C	A	TTCTAAATCATTAATTTTAAGCCACTGGAAATTAAAAGGTCAAAACTGGGCAAGTGGCAACAAAGAGACTT				
42054 T	A	A	TTCTAAATCATTAATTTTAAGCCACTGTAAATTAAAAGGTCAAAACTGGGCAAGTGGCAACAAAGAGACTT				
42054 IS	[CA]		ACCAGTTTTCAGGTTGAAAGTCTCTTTGTTGCCACTTGCCCAGTTTTGACCTTTTAATTT[CA]CAGTGGCTTAAAATTAA TGATTTAGAATCTCTCTCCAACTGGGCTTGTCAACTACTCCCG	ctg22fin6	22		
42081 I		S	AGTTTGCCATGGATGCGGCTGCCACT				
42081 P	C	S	ATGACGTGGCAGACGGCTGCTGCTCAGY				
42081 P	T	S	CGCGCCGAGGAGCTGCTGCTCAGCY				
42081 T	C	S	TCACGCTGAGCAGCAGCCGTGGCAGCCGCATCCATGGCAAACTGC				
42081 T	T	S	TCACGCTGAGCAGCAGCTGTGGCAGCCGCATCCATGGCAAACTGC				
42081 IS	[CT]		GCTGCTGGGTGAGGGCTGGGGGGAATGTCGGATGAGAGTGGTGTCACGCTGAGCAGCAGC[CT]GTGGCAGCCGCA TCCATGGCAAACTGCCTCATGGCACGTTCCTCCAAATACTTCTGCTCC	ctg22fin4	22	LCCP	
42390 I		S	CACTGTTCCTGTACTTCTGTCTTACCGCCCCATTT				
42390 P	C	S	ATGACGTGGCAGACGCCCATCCATAGATCTGAY				
42390 P	T	S	CGCGCCGAGGACCCATCCATAGATCTGACY				
42390 T	C	S	CAGAGTCAGATCTATGGATGGGCAATGGGGCGGTAAGACAGAAGTACAGGAACAGTGAT				
42390 T	T	S	CAGAGTCAGATCTATGGATGGGTAATGGGGCGGTAAGACAGAAGTACAGGAACAGTGAT				
42390 IS	[CT]		CCACTGGCATGACTTCAGCCAAACTTCATCGGTGTTTCCAGAGTCAGATCTATGGATGGG[CT]AATGGGGCGGTAAGA CAGAAGTACAGGAACAGTGATCAGTGCATGGGAGGAAGGCTGGGT	ctg22fin4	22		
42474 I		A	GCTTAGACATGACTCCAGTCATTTTTTCCCTAGGCTATTGCT				
42474 P	A	A	CGCGCCGAGGAATTGTCATTAAATGCATCAACCY				
42474 P	C	A	ATGACGTGGCAGACCATTGTCATTAAATGCATCAACY				
42474 T	A	A	CTGTGGTTGATGCATTTAATGACAATTGCAATAGCCTAGGGAAAAAATGACTGGAGTCATGTCTAAGCTT				
42474 T	C	A	CTGTGGTTGATGCATTTAATGACAATGGCAATAGCCTAGGGAAAAAATGACTGGAGTCATGTCTAAGCTT				
42474 IS	[AC]		TACGCCTCTGTTTCCTCAAGCTTAGACATGACTCCAGTCATTTTTTCCCTAGGCTATTGC[AC]ATTGTCATTAAATGCAT CAACCACAGCTTAATGTATAGTTTAATTGTAGAATCCATGATC	ctg22fin4	22		
42770 I		S	TCTCTGCTGTTTTTGTGCATGTTATCTATCTGGCTTATC				
42770 P	A	S	CGCGCCGAGGTCAGGTCTCTGATGTCCY				
42770 P	C	S	ATGACGTGGCAGACGCAGGTCTCTGATGTCCY				
42770 T	A	S	AGATGGACATCAGAGACCTGAATAAGCCAGATAGATAACATGCACAAAAACAGCAGAGAAT				
42770 T	C	S	AGATGGACATCAGAGACCTGCATAAGCCAGATAGATAACATGCACAAAAACAGCAGAGAAT				
42770 IS	[AC]		TACAGGGAGGGAGGTTTGCATTTAAAAACACCTAAGGGTTAGATGGACATCAGAGACCTG[AC]ATAAGCCAGATAGAT AACATGCACAAAAACAGCAGAGAATGTAAGGAAGAACCCACTTAG	MULTIPLE	MULTIPLE		
42807 I		A	CGTGACCTGGGTCTCCGCCCCA				
42807 P	T	A	CGCGCCGAGGTAGTGCTTCCCCGCY				
42807 P	C	A	ATGACGTGGCAGACCAGTGCTTCCCCGCY				
42807 T	T	A	AGCTGCGGGGAAGCACTAGGGGCGGAGACCCAGGTCACGGA				
42807 T	C	A	AGCTGCGGGGAAGCACTGGGGGCGGAGACCCAGGTCACGGA				
42807 IS	[TC]		CCTCCGTCGGTCTCAGGCCCCTGGCCCTGGCCTGCTCTCCGTGACCTGGGTCTCCGCCCC[TC]AGTGCTTCCCCGC AGCTCCACCGTCTGTGGTCGGCGGGGCCTCAGTGACCGCACGCTCTG	MULTIPLE	MULTIPLE		
42981 I		A	AGGTGGAGAGGGTGGGGGGAATAGAAGGA				
42981 P	C	A	ATGACGTGGCAGACCTGTTACAGCTGAGTTTTCCY				
42981 P	T	A	CGCGCCGAGGTTGTTACAGCTGAGTTTTCCY				
42981 T	C	A	CACAGGAAAACTCAGCTGTAACAGCCTTCTATTCCCCCCACCCTCTCCACCTCT				
42981 T	T	A	CACAGGAAAACTCAGCTGTAACAACCTTCTATTCCCCCCACCCTCTCCACCTCT				
42981 IS	[CT]		CAGAAGGACCAAACCTTAGAAAGGAAGACTAGAGGTGGAGAGGGTGGGGGGAATAGAAGG[CT]TGTTACAGCTGAGT TTTCCTGTGTGCTATGAAATATGCAAAAAAGAGAGAACCAGGGCCT	ctg22fin1	22		
43296 I		S	TCCCCTTCACTCCATTGCACAACCCAGGT				
43296 P	C	S	ATGACGTGGCAGACGTCAGGCGCAGGAY				
43296 P	T	S	CGCGCCGAGGATCAGGCGCAGGATTY				
43296 T	C	S	GGGCAATCCTGCGCCTGACCCTGGGTTGTGCAATGGAGTGAAGGGGACT				
43296 T	T	S	GGGCAATCCTGCGCCTGATCCTGGGTTGTGCAATGGAGTGAAGGGGACT				
43296 IS	[CT]		GGCTTAGCCAGAGCCACCTCCTCTTTCCCACTTGGAGGCTAGGGGCAATCCTGCGCCTGA[CT]CCTGGGTTGTGCAA TGGAGTGAAGGGGACTTAGGGCGGTCAAGAGCCAGAGGCATTGCCG	ctg22fin1	22		
43349 I		A	TGCCAAAGGAGAAAATATTTAGCAAGCATTCAAGAGAACAAGTTTTTGTTTTTC				
43349 P	A	A	CGCGCCGAGGAAAAAAAATCTAGGTAGAGTTTTCTACY				
43349 P	T	A	ATGACGTGGCAGACTAAAAAAATCTAGGTAGAGTTTTCTACY				
43349 T	A	A	GTTGGTAGAAAACTCTACCTAGATTTTTTTTAAAAACAAAAACTTGTTCTCTTGAATGCTTGCTAAATATTTTCTCCTTTG GCAGG				
43349 T	T	A	GTTGGTAGAAAACTCTACCTAGATTTTTTTAAAAACAAAAACTTGTTCTCTTGAATGCTTGCTAAATATTTTCTCCTTTG GCAGG				
43349 IS	[AT]		TCAAACCTGCCAAAGGAGAAAATATTTAGCAAGCATTCAAGAGAACAAGTTTTTGTTTTT[AT]AAAAAAATCTAGGTAGA GTTTTCTACCAACACTGAACTGAATTATGTTTTTGTTTGTTTC	MULTIPLE	22		
43603 I		S	GGCCAGGAGGCAGCAGGGCCT				
43603 P	C	S	ATGACGTGGCAGACGGATGAGGAGGCCTGY				
43603 P	G	S	CGCGCCGAGGCGATGAGGAGGCCTGY				
43603 T	C	S	AGGCCAGGCCTCCTCATCCGGCCCTGCTGCCTCCTGGCCCT				
43603 T	G	S	AGGCCAGGCCTCCTCATCGGGCCCTGCTGCCTCCTGGCCCT				
43603 IS	[CG]		AAGAGTGCAGGTCATTCTAATGGCGGCCGCACCTACCAGGTCAGGCCAGGCCTCCTCATC[CG]GGCCCTGCTGCCTC CTGGCCCTGGGACTTCCTGCTTCATTGCGGGTGTTCTGGGGTCTCT	ctg22fin4	22		
43627 I		A	GCCTACCAGTAACCATTAATTGTCCTCAGTAAGTACCCCCT				
43627 P	G	A	ATGACGTGGCAGACGATCTCATTTCTATGTGTCTAAATAAGY				
43627 P	C	A	CGCGCCGAGGCATCTCATTTCTATGTGTCTAAATAAY				
43627 T	G	A	CAGTCTTATTTAGACACATAGAAATGAGATCGGGGGTACTTACTGAGGACAATTAATGGTTACTGGTAGGCTC				
43627 T	C	A	CAGTCTTATTTAGACACATAGAAATGAGATGGGGGGTACTTACTGAGGACAATTAATGGTTACTGGTAGGCTC				
43627 IS	[GC]		TCTGGACTGGGAGGTAAGGAGCCTACCAGTAACCATTAATTGTCCTCAGTAAGTACCCCC[GC]ATCTCATTTCTATGT GTCTAAATAAGACTGTTGGACTTTCATAATGTAAAGAGCCACTCG	ctg22fin4	22		
43793 I		A	AGGTCCAGCTCAGTCTCCCAGAGAGACTAAACATGT				
43793 P	G	A	ATGACGTGGCAGACGGTGGGTGACAATGATGY				
43793 P	A	A	CGCGCCGAGGAGTGGGTGACAATGATGY				
43793 T	G	A	GAGGCATCATTGTCACCCACCCATGTTTAGTCTCTCTGGGAGACTGAGCTGGACCTGT				
43793 T	A	A	GAGGCATCATTGTCACCCACTCATGTTTAGTCTCTCTGGGAGACTGAGCTGGACCTGT				
43793 IS	[GA]		AAGCCTGAGGGATGCTGAGGAGCACAGGTCCAGCTCAGTCTCCCAGAGAGACTAAACATG[GA]GTGGGTGACAATGA TGCCTCTCTTCCTCTGGGACAAGGCAGTGACTCCAGGCTATGTGAT	ctg22fin4	22		
43874 I		S	GGCTCAGCGTCTTCCCCCCACCT				
43874 P	C	S	ATGACGTGGCAGACGAGCTACGGGTCCTGY				
43874 P	T	S	CGCGCCGAGGAAGCTACGGGTCCTGY				
43874 T	C	S	CCACCAGGACCCGTAGCTCGGTGGGGGGAAGACGCTGAGCCTC				
43874 T	T	S	CCACCAGGACCCGTAGCTTGGTGGGGGGAAGACGCTGAGCCTC				
43874 IS	[CT]		ACTGCACCTGAGGGTCAGCGGGCAGGTTTGCCCAGGGGAGCACCACCAGGACCCGTAGCT[CT]GGTGGGGGGAAG ACGCTGAGCCTCTGCCTTTCAGATGTGGGGGCAGCAAGACAGTAGGCA	ctg22fin4	22		
43885 I		S	CACCAGGACGGCCTGGTGCCTGA				
43885 P	G	S	ATGACGTGGCAGACCGGGCAGCTACAGCY				
43885 P	A	S	CGCGCCGAGGTGGGCAGCTACAGCY				

FIGURE 129D

43885 T	G	S	CCCTGCTGTAGCTGCCCGCAGGCACCAGGCCGTCCTGGTGGT			
43885 T	A	S	CCCTGCTGTAGCTGCCCACAGGCACCAGGCCGTCCTGGTGGT			
43885 IS	[GA]		CATCTTCCCAGCTGGAGAAGGACCACTGTCGAGCCACTGCTCTCCCTGCTGTAGCTGCCC[GA]CAGGCACCAGGCCG TCCTGGTGGTAGAGTCTGCAGGCTCCAGCAGACAGCCATGCAGAAT	ctg22fin4	22	
43890 I		A	TGTCCGATTCACAATTGGAACAAAAACAAACAAAACACCCATGT			
43890 P	A	A	CGCGCCGAGGAGGAAAATGGTACTTCTGGY			
43890 P	G	A	ATGACGTGGCAGACGGGAAAATGGTACTTCTGGY			
43890 T	A	A	AACTCCAGAAGTACCATTTTCCTCATGGGTGTTTTGTTTGTTTTTGTTCCAATTGTGAATCGGACACC			
43890 T	G	A	AACTCCAGAAGTACCATTTTCCCCATGGGTGTTTTGTTTGTTTTTGTTCCAATTGTGAATCGGACACC			
43890 IS	[AG]		AATAAAATCCTGGCTGGTGTCCGATTCACAATTGGAACAAAAACAAACAAAACACCCATG[AG]GGAAAATGGTACTTCT GGAGTTCCTGTACTGCTCAGATCACATAAGGCTACAAAATTATA	ctg22fin4	22	
43955 I		S	AGCCCGGGACGGGCTCTGGAA			
43955 P	A	S	CGCGCCGAGGTACTTGCACCTTTGGTCY			
43955 P	G	S	ATGACGTGGCAGACCACTTGCACCTTTGGTY			
43955 T	A	S	ATGGGACCAAAGGTGCAAGTATCCAGAGCCCGTCCCGGGCTAT			
43955 T	G	S	ATGGGACCAAAGGTGCAAGTGTCCAGAGCCCGTCCCGGGCTAT			
43955 IS	[AG]		AGCTGAAGTCGAGCTGGGAAGCAGCTCCTGTCCCCCACCCATGGGACCAAAGGTGCAAGT[AG]TCCAGAGCCCGTC CCGGGCTATAGGGAGGCCCCTGCGGGCAGGGGAATCTTATAGCCGCT	ctg22fin4	22	
44387 I		S	CTCTCAGTCGAAGCGACCGGATTGACGCA			
44387 P	G	S	ATGACGTGGCAGACCGTCACACCAACACTGY			
44387 P	A	S	CGCGCCGAGGTGTCACACCAACACTGY			
44387 T	G	S	TCCCCAGTGTTGGTGTGACGGCGTCAATCCGGTCGCTTCGACTGAGAGAG			
44387 T	A	S	TCCCCAGTGTTGGTGTGACAGCGTCAATCCGGTCGCTTCGACTGAGAGAG			
44387 IS	[GA]		GTAGACTTGGAGGAGCGAAGAATTGAGCTGGTTATTGCTGCTCCCCAGTGTTGGTGTGAC[GA]GCGTCAATCCGGTC GCTTCGACTGAGAGAGTCTGAGTGATTCAAGCCACATGGGCGAGGA	ctg22fin1	22	FLJ20064
44487 I		A	CGCCCTGGGTTTACCACGGTCACCT			
44487 P	A	A	CGCGCCGAGGACCACCTCTCTCACAGY			
44487 P	G	A	ATGACGTGGCAGACGCCACCTCTCTCACAY			
44487 T	A	A	GGCCCTGTGAGAGAGGTGGTGGTGACCGTGGTAAACCCAGGGCGGT			
44487 T	G	A	GGCCCTGTGAGAGAGGTGGCGGTGACCGTGGTAAACCCAGGGCGGT			
44487 IS	[AG]		GACAGCCCAGCGTAAGGACCCGTGATCCCACGCCACCGCCCTGGGTTTACCACGGTCACC[AG]CCACCTCTCTCACA GGGCCCCCGGGGGACCCAGCCGCGCCCGGCCTGGTGTCTGCACCGA			
44489 I		A	GTGGCTGCAGGTGGAGTCTGTGGCT			
44489 P	C	A	CGCGCCGAGGCTGTGGCGCACACY			
44489 P	G	A	ATGACGTGGCAGACGTGTGGCGCACACY			
44489 T	C	A	CTGGGTGTGCGCCACAGGCCACAGACTCCACCTGCAGCCACCC			
44489 T	G	A	CTGGGTGTGCGCCACACGCCACAGACTCCACCTGCAGCCACCC			
44489 IS	[CG]		CACTACCTGACACAGGAGACCATGTCTGGGCAGAGGGTGGCTGCAGGTGGAGTCTGTGGC[CG]TGTGGCGCACACC CAGGGGCTCCCCCGATGCTGGTTACTATCTGGGCTATGGTGGCCACA	ctg22fin4	22	
44615 I		S	TCCTCCACCAGCGGGCATTTTTGCGA			
44615 P	G	S	ATGACGTGGCAGACCTCACGCGCGACTY			
44615 P	A	S	CGCGCCGAGGTTCACGCGCGACTY			
44615 T	G	S	GAGCAGTCGCGCGTGAGCGCAAAAATGCCCGCTGGTGGAGGAGC			
44615 T	A	S	GAGCAGTCGCGCGTGAACGCAAAAATGCCCGCTGGTGGAGGAGC			
44615 IS	[GA]		TTCCCAGTCTTCTCGTAGACGGTCAGGAGAGCAATGACAGCCTGGAGCAGTCGCGCGTGA[GA]CGCAAAAATGCCCG CTGGTGGAGGAGCGCTTCCCCTCCCTCCCAAGCGATTTGCCGCATT	ctg22fin4	22	
44617 I		A	GAGGAAGGTGCCAGGTGCAGGGCT			
44617 P	A	A	CGCGCCGAGGATGGGGAAGGGCTTACY			
44617 P	G	A	ATGACGTGGCAGACGTGGGGAAGGGCTTAY			
44617 T	A	A	CGGAGTAAGCCCTTCCCCATGCCCTGCACCTGGCACCTTCCTCCT			
44617 T	G	A	CGGAGTAAGCCCTTCCCCACGCCCTGCACCTGGCACCTTCCTCCT			
44617 IS	[AG]		AGGAGATGAGGCTCTGGGAGCAAAAGCAGACCCACAGGAGGAAGGTGCCAGGTGCAGGGC[AG]TGGGGAAGGGCT TACTCCGTAAGTAGCTCACAACGTGGCTTGCCAGCTCTGAGTAGTCGA			
44643 I		S	GCATCCTGGGCGTTTCTTGCCCTCTT			
44643 P	T	S	CGCGCCGAGGACTGACTACTGATTGGATTTTAY			
44643 P	C	S	ATGACGTGGCAGACGCTGACTACTGATTGGATTTY			
44643 T	T	S	TAGGTAAAATCCAATCAGTAGTCAGTAGAGGGCAAGAAACGCCCAGGATGCCA			
44643 T	C	S	TAGGTAAAATCCAATCAGTAGTCAGCAGAGGGCAAGAAACGCCCAGGATGCCA			
44643 IS	[TC]		TGGAGAGGGAGAGAGTAGCAAGTTGCAGAAAGCCATAGGTAAAATCCAATCAGTAGTCAG[TC]AGAGGGCAAGAAAC GCCCAGGATGCCAATGATCACAGAGAAAGGAAAATGCTGAGAACAA	ctg13446	1	DPAGT1
44644 I		S	TCTCCTTGCAGATCCTGGGCAGTGCCT			
44644 P	C	S	ATGACGTGGCAGACGTCACCTTCTCCATTCGY			
44644 P	T	S	CGCGCCGAGGATCACCTTCTCCATTCGAY			
44644 T	C	S	GATATCGAATGGAGAAGGTGACGGCACTGCCCAGGATCTGCAAGGAGAAA			
44644 T	T	S	GATATCGAATGGAGAAGGTGATGGCACTGCCCAGGATCTGCAAGGAGAAA			
44644 IS	[CT]		ATCAAGGGACTCAGACATCATAGAAGAGTCGAACGAGCTGATATCGAATGGAGAAGGTGA[CT]GGCACTGCCCAGGA TCTGCAAGGAGAAATGGACTGGAGTAAGAATCACGCAGAAAGGGAG	ctg16829	1	
44679 I		A	GCCAGAGGTTATTCTCTTCCCTTCAGAACGGGGT			
44679 P	G	A	ATGACGTGGCAGACGCGGGATCGCTGCY			
44679 P	A	A	CGCGCCGAGGACGGGATCGCTGCY			
44679 T	G	A	GAAAGCAGCGATCCCGCCCCCGTTCTGAAGGGAAGAGAATAACCTCTGGCAA			
44679 T	A	A	GAAAGCAGCGATCCCGTCCCCGTTCTGAAGGGAAGAGAATAACCTCTGGCAA			
44679 IS	[GA]		TCCACCAGATTCTAGAAGGTAAAAATTGCCAGAGGTTATTCTCTTCCCTTCAGAACGGGG[GA]CGGGATCGCTGCTTT CCCCACTCTCTGTCCCCATGCCTCCTGGGCCTCAGGGTGCAGTCA	ctg15972	16	
44769 I		A	CGATAGCACGCAATCGCTGGTGTGCCT			
44769 P	G	A	ATGACGTGGCAGACGCGGGCAGCCGY			
44769 P	A	A	CGCGCCGAGGACGGGCAGCCGY			
44769 T	G	A	GGGACGGCTGCCCGCGGCACACCAGCGATTGCGTGCTATCGAG			
44769 T	A	A	GGGACGGCTGCCCGTGGCACACCAGCGATTGCGTGCTATCGAG			
44769 IS	[GA]		TGATTTGGTAACGGGGTCCCCTGTGACTCTCTCTCGATAGCACGCAATCGCTGGTGTGCC[GA]CGGGCAGCCGTCCC TCCCGCATGATCAAGTAAGACACAGGCCTGGTGGTGCCCATGCTTG			
44794 I		A	GCATCCGAAAGCCCTGAAGTCCCCCA			
44794 P	C	A	ATGACGTGGCAGACCGAGCAAAGCGATAGCY			
44794 P	T	A	CGCGCCGAGGTGAGCAAAGCGATAGCY			
44794 T	C	A	AGCCGCTATCGCTTTGCTCGGGGGGACTTCAGGGCTTTCGGATGCCT			
44794 T	T	A	AGCCGCTATCGCTTTGCTCAGGGGGACTTCAGGGCTTTCGGATGCCT			
44794 IS	[CT]		GAAACTGGACCAGAATGGGTAGAAGAGGCAGGGAGGCATCCGAAAGCCCTGAAGTC[CCC]CTGAGCAAAGCGATA GCGGCTGGGATGACAGTGGAGCCATGGAAGGGGAAAGAAATGGACAG			
44821 I		S	GCCCAGGCAGACATTTCTAAGCTTGGGAGAGA			
44821 P	A	S	CGCGCCGAGGTTGATGAGTGGTGCCTY			
44821 P	G	S	ATGACGTGGCAGACCTGATGAGTGGTGCCTY			
44821 T	A	S	TAGAAGGCACCACTCATCAACTCTCCCAAGCTTAGAAATGTCTGCCTGGGCAG			
44821 T	G	S	TAGAAGGCACCACTCATCAGCTCTCCCAAGCTTAGAAATGTCTGCCTGGGCAG			
44821 IS	[AG]		CTTTCTAACTACAGCTCAATTTCAGACTTTATTACATTCCCTAGAAGGCACCACTCATCA[AG]CTCTCCCAAGCTTAGAA ATGTCTGCCTGGGCAGGGAGGAAAATGTCAATCACCTTTATTT	ctg17253	1	
45629 I		S	CATGAATTGCTTTAGGCTGAATGGATTCATGCCCTGAT			
45629 P	G	S	ATGACGTGGCAGACCCTTGCACATGACGCY			

FIGURE 129D

45629 P	T	S	CGCGCCGAGGACTTGCACATGACGCY				
45629 T	G	S	CAGTGCGTCATGTGCAAGGTCAGGGCATGAATCCATTCAGCCTAAAGCAATTCATGTT				
45629 T	T	S	CAGTGCGTCATGTGCAAGTTCAGGGCATGAATCCATTCAGCCTAAAGCAATTCATGTT				
45629 IS	[GT]		CCAAAAGGACAAATGAACTCTCAGCTTCTCGCTGGGTTTATCCAGTGCGTCATGTGCAAG[GT]TCAGGGCATGAATCC ATTCAGCCTAAAGCAATTCATGTTAGAAATATTTGAGCCACACCT	ctg17326	12		
45673 I		A	GGGTTCAGATACGGAAGCCAGGGCCAT				
45673 P	C	A	CGCGCCGAGGCCCAGGAAGGAGAAGAGY				
45673 P	G	A	ATGACGTGGCAGACGCCAGGAAGGAGAAGAY				
45673 T	C	A	ACCCCTCTTCTCCTTCCTGGGTGGCCCTGGCTTCCGTATCTGAACCCAC				
45673 T	G	A	ACCCCTCTTCTCCTTCCTGGCTGGCCCTGGCTTCCGTATCTGAACCCAC				
45673 IS	[CG]		GGCCAGCCAGGAAGGAGAAGAGGGGTCCCCCAGTGGGTTCAGATACGGAAGCCAGGGCCA[CG]CCAGGAAGGAGA AGAGGGGTCCCCCAGTGGGTTCAGATACCCTGAAGGGGGGTCTGGGAC	ctg16306	4		
45683 I		A	GGGTGGGGCTGCTCAGCGGCT				
45683 P	A	A	CGCGCCGAGGATGGAGCTGAGGTCTGY				
45683 P	G	A	ATGACGTGGCAGACGTGGAGCTGAGGTCTGY				
45683 T	A	A	TCTTCAGACCTCAGCTCCATGCCGCTGAGCAGCCCCACCCTG				
45683 T	G	A	TCTTCAGACCTCAGCTCCACGCCGCTGAGCAGCCCCACCCTG				
45683 IS	[AG]		GACCCCGGCCTGCTGGCGGGGCGGGTAACGGGTTGAGCCAGGGTGGGGCTGCTCAGCGGC[AG]TGGAGCTGAGGT CTGAAGACCCAGCACAGGCGATTCCTTTCTGCGACGAGACAATTGCTA	ctg17042	11		
45713 I		A	TGGACACGGGGACCCAGCTCCCA				
45713 P	C	A	ATGACGTGGCAGACCACCTCCCCACCTCY				
45713 P	T	A	CGCGCCGAGGTACCTCCCCACCTCAY				
45713 T	C	A	TCTCTGAGGTGGGGAGGTGGGGAGCTGGGTCCCCGTGTCCAAG				
45713 T	T	A	TCTCTGAGGTGGGGAGGTAGGGAGCTGGGTCCCCGTGTCCAAG				
45713 IS	[CT]		TGCTCCCAGGAAAAAGCCTGGTGGGAGGGCAGGGGCCTTGGACACGGGGACCCAGCTCCC[CT]ACCTCCCCACCTC AGAGAGGCCTGGGAAATCATTCCTGGCAGTAGCCTGGCCTTGCCCGT	ctg14153	X		
45717 I		S	GGCCAGCAGGACCCGCCCGC				
45717 P	C	S	ATGACGTGGCAGACGTCCCGACCTTCCCY				
45717 P	A	S	CGCGCCGAGGTTCCCGACCTTCCCY				
45717 T	C	S	TCGAGGGAAGGTCGGGACCGGGCGGGTCCTGCTGGCCTA				
45717 T	A	S	TCGAGGGAAGGTCGGGAACGGGCGGGTCCTGCTGGCCTA				
45717 IS	[CA]		GCGAGCATGGTCGGAAATCATCGCCTTTATTTCTTGGCGGGTCTCGAGGGAAGGTCGGGA[CA]CGGGCGGGTCCTG CTGGCCTAGAGGGCGTCAGGGGCAGCCACCGGCGGCTCGGGATCCTC	ctg18251	1		
45738 I		A	CTCTACCTACTGGTGTCCTACAAAAACACAGAAATCAAACAACTGAAT				
45738 P	A	A	CGCGCCGAGGAACATAAGCACCAGAAGCY				
45738 P	G	A	ATGACGTGGCAGACGACATAAGCACCAGAAGCY				
45738 T	A	A	CTTTGCTTCTGGTGCTTATGTTTTCAGTTGTTTGATTTCTGTGTTTTTGTAGGACACCAGTAGGTAGAGGA				
45738 T	G	A	CTTTGCTTCTGGTGCTTATGTCTTCAGTTGTTTGATTTCTGTGTTTTTGTAGGACACCAGTAGGTAGAGGA				
45738 IS	[AG]		AGCCAGGCTCTTCCTCTACCTACTGGTGTCCTACAAAAACACAGAAATCAAACAACTGAA[AG]ACATAAGCACCAGAAG CAAAGGCTACAGTAGAATCAGTTCACTTATTCTTGCTAATGGTA	ctg16114	X		
45811 I		A	CTGGATCCAGGGGGTCAGTCCTTCCCT				
45811 P	G	A	ATGACGTGGCAGACGTTCTGTGCTAGATTGCTY				
45811 P	A	A	CGCGCCGAGGATTCTGTGCTAGATTGCTGY				
45811 T	G	A	TATACAGCAATCTAGCACAGAACGGGAAGGACTGACCCCCTGGATCCAGTT				
45811 T	A	A	TATACAGCAATCTAGCACAGAATGGGAAGGACTGACCCCCTGGATCCAGTT				
45811 IS	[GA]		CCCACTGTGTAACTTGCTGTCATTTACTTACAAACTGGATCCAGGGGGTCAGTCCTTCCC[GA]TTCTGTGCTAGATTG CTGTATAAGGACCTCACAGCAACTCTTCCCACTGACGTCACCGTG	ctg16574	1	MGC11266	
45906 I		A	CCAGGCCCAGACAGTGGCGGCT				
45906 P	C	A	ATGACGTGGCAGACCCGGTGGCATCGAY				
45906 P	A	A	CGCGCCGAGGACGGTGGCATCGAGY				
45906 T	C	A	CCCACTCGATGCCACCGGGCCGCCACTGTCTGGGCCTGGGA				
45906 T	A	A	CCCACTCGATGCCACCGTGCCGCCACTGTCTGGGCCTGGGA				
45906 IS	[CA]		TCTAAACCCTGAAGTACAGAAGGCAAGTGGGTCAAGATCCCAGGCCCAGACAGTGGCGGC[CA]CGGTGGCATCGAGT GGGTGCCGTGTATCTTGCAGGCACAGAACCTCCCGGGGAAGATGGA				
45956 I		A	TGTACTTTCCTCCTTTCGGAAGTTTGCCATATTCCTGACTTTTATT				
45956 P	G	A	ATGACGTGGCAGACGCTAATCATTTCCTCTCTTCAY				
45956 P	A	A	CGCGCCGAGGACTAATCATTTCCTCTCTTCATAGY				
45956 T	G	A	AAAACTATGAAGAGAGGAAATGATTAGCATAAAAGTCAGGAATATGGCAAACTTCCGAAAGGAGGAAAGTACATC				
45956 T	A	A	AAAACTATGAAGAGAGGAAATGATTAGTATAAAAGTCAGGAATATGGCAAACTTCCGAAAGGAGGAAAGTACATC				
45956 IS	[GA]		CAGCCTAGCTCCGGATGTACTTTCCTCCTTTCGGAAGTTTGCCATATTCCTGACTTTTAT[GA]CTAATCATTTCCTCTCT TCATAGTTTTTACCACCTCTGTGAAGTTGTTGTTGTTTTTTTT	ctg19	19		
45972 I		A	AGTATCTGTTTGCCAGGCAGAAAGCGCCTT				
45972 P	G	A	ATGACGTGGCAGACGTAGCTACTGGTCTCTTTCTY				
45972 P	C	A	CGCGCCGAGGCTAGCTACTGGTCTCTTTCTY				
45972 T	G	A	CTGCAGAAAGAGACCAGTAGCTACAGGCGCTTTCTGCCTGGCAAACAGATACTTC				
45972 T	C	A	CTGCAGAAAGAGACCAGTAGCTAGAGGCGCTTTCTGCCTGGCAAACAGATACTTC				
45972 IS	[GC]		TATCCCCGTGCGTAATTCCCATGCAACAGGAAGTATCTGTTTGCCAGGCAGAAAGCGCCT[GC]TAGCTACTGGTCTCT TTCTGCAGCCCTGCCAAACACAAGCAGCAATAAACCAATGGCCAT	ctg12325	11		
46106 I		S	GCCATGGCGATATTTTACTTATTTCATTAGACTGAGATGAGTAT				
46106 P	C	S	ATGACGTGGCAGACGCCCATTTATTAAAGATTGTGTY				
46106 P	T	S	CGCGCCGAGGACCCATTTATTAAAGATTGTGTGY				
46106 T	C	S	AGTACACACAATCTTTAATAAATGGGCTACTCATCTCAGTCTAATGAAATAAGTAAAATATCGCCATGGCAA				
46106 T	T	S	AGTACACACAATCTTTAATAAATGGGTTACTCATCTCAGTCTAATGAAATAAGTAAAATATCGCCATGGCAA				
46106 IS	[CT]		CCAACAAACACATTGGGATGCTAAAAAGAGAAACAGTACACACAATCTTTAATAAATGGG[CT]TACTCATCTCAGTCTAA TGAAATAAGTAAAATATCGCCATGGCAAAAATATATCTTAGAT	ctg19	19		
46122 I		S	GCTTTGCCGGAGCATGACTTACAGCAGATTTGATT				
46122 P	T	S	CGCGCCGAGGAGCCTGGATTTTGCTTTTY				
46122 P	C	S	ATGACGTGGCAGACGGCCTGGATTTTGCTTY				
46122 T	T	S	GTGGAAAAGCAAAATCCAGGCTATCAAATCTGCTGTAAGTCATGCTCCGGCAAAGCCA				
46122 T	C	S	GTGGAAAAGCAAAATCCAGGCCATCAAATCTGCTGTAAGTCATGCTCCGGCAAAGCCA				
46122 IS	[TC]		TGGCTACGAGACAGCATGGCCTACCAGATGGGGACAGGTGTGGAAAAGCAAAATCCAGGC[TC]ATCAAATCTGCTGT AAGTCATGCTCCGGCAAAGCCACTTGAAGTCTAGCCTGCCATGGAC	ctg18911	9		
46142 I		S	GGGAGAGGCCTAAACCTTGGACACCCCT				
46142 P	C	S	ATGACGTGGCAGACGTCCCAGGGCAGCY				
46142 P	T	S	CGCGCCGAGGATCCCAGGGCAGCY				
46142 T	C	S	CTGTGCTGCCCTGGGACGGGGTGTCCAAGGTTTAGGCCTCTCCCAC				
46142 T	T	S	CTGTGCTGCCCTGGGATGGGGTGTCCAAGGTTTAGGCCTCTCCCAC				
46142 IS	[CT]		TTTGGTTCTGCTGGGCTTTCATGGGTGCTGTTTGTTTCTCTGGGCTGTGCTGCCCTGGGA[CT]GGGGTGTCCAAGGT TTAGGCCTCTCCCACAGGGCTGCACAGCAAATGTTGCACCGCTGCT	ctg22fin4	22		
46153 I		S	CGAGACACCAGAAAGTTGGAGAACAAGACTTTGAAAGAATTTGTT				
46153 P	T	S	CGCGCCGAGGATAAACTAACCCAATAAAAAGCGY				
46153 P	C	S	ATGACGTGGCAGACGTAAACTAACCCAATAAAAAGCGY				

FIGURE 129D

46153	T	T	S	GGAACGCTTTTTATTGGGTTAGTTTATACAAATTCTTTCAAAGTCTTGTTCTCCAACTTTCTGGTGTCTCGTG			
46153	T	C	S	GGAACGCTTTTTATTGGGTTAGTTTACACAAATTCTTTCAAAGTCTTGTTCTCCAACTTTCTGGTGTCTCGTG			
46153	IS	[TC]		AAGGCTCTGGATATTAAATCAGGCTCCTACTCCTGGAACGCTTTTTATTGGGTTAGTTTA[TC]ACAAATTCTTTCAAAGT CTTGTTCTCCAACTTTCTGGTGTCTCGTGGTCTTGGATTTTAC	ctg22fin6	22	
46333	I		S	TTCTGCTGGGAACCGTACCGGGATGGT			
46333	P	C	S	ATGACGTGGCAGACGTGTGGGACGGCCY			
46333	P	T	S	CGCGCCGAGGATGTGGGACGGCCY			
46333	T	C	S	TCGAGGCCGTCCCCACACCCATCCCGGTACGGTTCCCAGCAGAACT			
46333	T	T	S	*TCGAGGCCGTCCCCACATCCATCCCGGTACGGTTCCCAGCAGAACT*			
46333	IS	[CT]		GGCTCCGAGAGACTGCCTAGAAAAAACAGCACCCGGATCTGAATTCGAGGCCGTCCCACA[CT]CCATCCCGGTACGG TTCCCAGCAGAACTGAGCTGGAGTGGCCCTGATGCAAATGAACTTA	ctg22fin6	22	
46343	I		S	CCAAGTCTCTTTAGTTGGTGCAGTACCTGTAGAAGAATACAGCTATTTACT			
46343	P	C	S	ATGACGTGGCAGACGTGGAAGAAAGATTACTGTGAY			
46343	P	T	S	CGCGCCGAGGATGGAAGAAAGATTACTGTGACY			
46343	T	C	S	ACGAGTCACAGTAATCTTTCTTCCACGTAAATAGCTGTATTCTTCTACAGGTACTGCACCAACTAAAGAGACTTGGAA			
46343	T	T	S	ACGAGTCACAGTAATCTTTCTTCCATGTAAATAGCTGTATTCTTCTACAGGTACTGCACCAACTAAAGAGACTTGGAA			
46343	IS	[CT]		TGAACTCACAAATGATAAATGTAAATCTGGAAAATACGAGTCACAGTAATCTTTCTTCCA[CT]GTAAATAGCTGTATTCT TCTACAGGTACTGCACCAACTAAAGAGACTTGGAATTGTGTGG			
46357	I		S	GTGGGCAGTGATATCCCCAAATTGTAGAAATCAGAGATGGT			
46357	P	C	S	*ATGACGTGGCAGACGGAACATGGCCTGTTTY*			
46357	P	T	S	CGCGCCGAGGAGAACATGGCCTGTTTCY			
46357	T	C	S	CCCTGAAACAGGCCATGTTCCCCATCTCTGATTTCTACAATTTGGGGATATCACTGCCCACCC			
46357	T	T	S	CCCTGAAACAGGCCATGTTCTCCATCTCTGATTTC*TACAATTTGGGGATATCACTGCCCACCC*			
46357	IS	[CT]		TTCCTACAATAGACAAAAACCATCTGAGGGCTGGCAGGGACCCTGAAACAGGCCATGTTC[CT]CCATCTCTGATTTCT ACAATTTGGGGATATCACTGCCCACCCTTTCTGGAGCCGTGTGGT			
46429	I		S	GGCGGGGCCCTGGGCCT			
46429	P	T	S	CGCGCCGAGGAGTCTGCTGGCATTGAY			
46429	P	C	S	*ATGACGTGGCAGACGGTCTGCTGGCATTGY*			
46429	T	T	S	GTGATCAATGCCAGCAGACTGGCCCAGGGCCCCGCCCG			
46429	T	C	S	GTGATCAATGCCAGCAGACCGGCCCAGGGCCCCGCCCG			
46429	IS	[TC]		GAGAGGAAGAGGTGCTGATCCCCCCCTTTGAGACCTTCCAAGTGATCAATGCCAGCAGAC[TC]GGCCCAGGGCCCCG CCCGCATCTACCTCCGAGCCCTGGGCAAGCACAGCACCTACAACTG	ctg15379	X	ART1
46588	I		S	CGGCTGGGGACGCGGGCT			
46588	P	T	S	CGCGCCGAGGATGGTGCGGCAGGY			
46588	P	C	S	ATGACGTGGCAGACGTGGTGCGGCAGGY			
46588	T	T	S	CAGGCCTGCCGCACCATGCCCGCGTCCCCAGCCGGC			
46588	T	C	S	CAGGCCTGCCGCACCACGCCCGCGTCCCCAGCCGGC			
46588	IS	[TC]		AGAAATTTCACCTTGAAAATCATCTCCCATCGACACAATCAAGGCAGGCCTGCCGCACCA[TC]GCCCGCGTCCCCAGC CGGCAGCCGGAAGGGCCAGGGTGGCCAGGGTGGGTCCAGCCCAAA	ctg15665	20	
46690	I		S	CCCAGCTGCAGACAGCATCTCCCCT			
46690	P	G	S	ATGACGTGGCAGACCAAACTGATGGGCCCY			
46690	P	T	S	CGCGCCGAGGAAAACTGATGGGCCCAY			
46690	T	G	S	TACTTGGGCCCATCAGTTTGGGGGAGATGCTGTCTGCAGCTGGGCA			
46690	T	T	S	TACTTGGGCCCATCAGTTTT*GGGGAGATGCTGTCTGCAGCTGGGCA*			
46690	IS	[GT]		AACTGCTTTATTTTACCCCCTGTTTCCAGAGCCTCACCCCCTACTTGGGCCCATCAGTTT[GT]GGGGAGATGCTGTCT GCAGCTGGGCAGCGCCAGAAGGCCTGTGACAGCACAGCATCTCTT	ctg13390	6	
46728	I		A	GCTTATAATCCTTAAAGGATTTTGAAAAGCCTTTGTTTTTAAAGAAACATCTA			
46728	P	T	A	CGCGCCGAGGTCCTTTTAAATGTTGCTACCTY			
46728	P	C	A	ATGACGTGGCAGACCCCTTTTAAATGTTGCTACCY			
46728	T	T	A	ACATAGGTAGCAACATTTAAAAGGAAGATGTTTCTTTAAAAACAAAGGCTTTTCAAAATCCTTTAAGGATTATAAGCTC			
46728	T	C	A	ACATAGGTAGCAACATTTAAAAGGGAGATGTTTCTTTAAAAACAAAGGCTTTTCAAAATCCTTTAAGGATTATAAGCTC			
46728	IS	[TC]		AATCTTGAGCTTATAATCCTTAAAGGATTTTGAAAAGCCTTTGTTTTTAAAGAAACATCT[TC]CCTTTTAAATGTTGCTAC CTATGTTATTGACAGGACATATAAGAAGACGAATCTTCACCA	ctg14932	16	
46840	I		A	CCACCTGCTGCCTCTGCCCGCT			
46840	P	A	A	CGCGCCGAGGATGGCAGGGGAATGGY			
46840	P	G	A	ATGACGTGGCAGACGTGGCAGGGGAATGY			
46840	T	A	A	CCGTCCATTCCCCTGCCATGCGGGCAGAGGCAGCAGGTGGGG			
46840	T	G	A	CCGTCCATTCCCCTGCCACGCGGGCAGAGGCAGCAGGTGGGG			
46840	IS	[AG]		GGATGGGCAGGGGCAGGCCTGGCCACCCCCTCGTCGGCCCCACCTGCTGCCTCTGCCCGC[AG]TGGCAGGGGAAT GGACGGGGCAGCCTCTGCCGGGCCTCAGATGTGAGGCCCTAACCCTCC	ctg15945	3	
46847	I		S	ACCTGAGGGAGTCCTTGCTGAACGTGCT			
46847	P	C	S	ATGACGTGGCAGACGGTGCAGGACTTACATTTY			
46847	P	T	S	*CGCGCCGAGGAGTGCAGGACTTACATTTCY*			
46847	T	C	S	CCCTGAAATGTAAGTCCTGCACCGCACGTTCAGCAAGGACTCCCTCAGGTCC			
46847	T	T	S	CCCTGAAATGTAAGTCCTGCACTGCACGTTCAGCAAGGACTCCCTCAGGTCC			
46847	IS	[CT]		ATGTCCCACGTTGGGCTGGTTTTCGTGGCAAACGTTAGCCCTGAAATGTAAGTCCTGCAC[CT]GCACGTTCAGCAAGG ACTCCCTCAGGTCCAGGCCAAGCCTTGACATACATGCTGGGCACC	ctg15296	11	
46877	I		S	GCCAGCCTCCTAACAAGCCAGACTTGCATTCT			
46877	P	T	S	CGCGCCGAGGAGACTCTTAGCCAGATTCAY			
46877	P	G	S	ATGACGTGGCAGACCGACTCTTAGCCAGATTCY			
46877	T	T	S	*AGGCTGAATCTGGCTAAGAGTCTGAATGCAAGTCTGGCTTGTTAGGAGGCTGGCCT*			
46877	T	G	S	AGGCTGAATCTGGCTAAGAGTCGGAATGCAAGTCTGGCTTGTTAGGAGGCTGGCCT			
46877	IS	[TG]		CCATAAACGCTTGCTAAAAGGCCTGCTGAGATCCTGGCAGGCTGAATCTGGCTAAGAGTC[TG]GAATGCAAGTCTGG CTTGTTAGGAGGCTGGCCTAGAAGCTGGCTGCATGGGAGGCTAACC	ctg16920	19	
46919	I		S	CACCAGAAAGAGGGATGCTACACGGGGGC			
46919	P	A	S	CGCGCCGAGGTTTCTCCTCTCAAGATAAGTCY			
46919	P	T	S	ATGACGTGGCAGACATTCTCCTCTCAAGATAAGTCY			
46919	T	A	S	CAGGGACTTATCTTGAGAGGAGAAACCCCCGTGTAGCATCCCTCTTTCTGGTGTT			
46919	T	T	S	*CAGGGACTTATCTTGAGAGGAGAATCCCCCGTGTAGCATCCCTCTTTCTGGTGTT*			
46919	IS	[AT]		AAGGTAAAAAAGAAAAAAGTGCTTGAAAATAATTCTCAGGGACTTATCTTGAGAGGAGAA[AT]CCCCCGTGTAGCATCC CTCTTTCTGGTGTTATCCGGTCCCTGCTCAGGGCACAAAGACCT	ctg17003	14	
46932	I		A	GGGATAAGCTGTCACTTCTCCGCACTTCCGAT			
46932	P	A	A	CGCGCCGAGGAGCATCTCTATATGGAACGTY			
46932	P	G	A	ATGACGTGGCAGACGGCATCTCTATATGGAACGY			
46932	T	A	A	GGAAACGTTCCATATAGAGATGCTTCGGAAGTGCGGAGAAGTGACAGCTTATCCCCT			
46932	T	G	A	GGAAACGTTCCATATAGAGATGCCTCGGAAGTGCGGAGAAGTGACAGCTTATCCCCT			
46932	IS	[AG]		*TCTGCTGAGAGAACATGACGGCCTGAGAGGGGATAAGCTGTCACTTCTCCGCACTTCCGA[AG]GCATCTCTATATGGA* ACGTTTCCCTGTTCCGGTCTGATCATCTTTCTCTTGATCCTGCTT	ctg17003	14	
46993	I		A	TCCAATTGCAGTCAAGTGTTGGCAAACCTT			
46993	P	G	A	ATGACGTGGCAGACGATCTTTCTGTGTATTTGCTCY			
46993	P	A	A	CGCGCCGAGGAATCTTTCTGTGTATTTGCTCY			
46993	T	G	A	AAACGAGCAAATACACAGAAAGATCAGGTTTGCCAACACTTGACTGCAATTGGAGA			
46993	T	A	A	AAACGAGCAAATACACAGAAAGATTAGGTTTGCCAACACTTGACTGCAATTGGAGA			

PRELIMINARY

FIGURE 129D

				CACCAAAGTTTCTGGCAAAGATGAAAAATTCTCCAATTGCAGTCAAGTGTTGGCAAACCT[GA]ATCTTTCTGTGTATTT		
46993 IS	[GA]			GCTCGTTTGTGGATGTCTGTCCTAGGTCTTCAGTCTAGACTTCC	ctg16920	19
47023 I			S	CAGAGCCCAACACCGTGTGTGCACAA		
47023 P	G		S	ATGACGTGGCAGACCGCATAAACACACAAACCY		
47023 P	A		S	CGCGCCGAGGTGCATAAACACACAAACCTY		
47023 T	G		S	CACCAGGTTTGTGTGTTTATGCGTGTGCACACACGGTGTTGGGCTCTGGC		
47023 T	A		S	CACCAGGTTTGTGTGTTTATGCATGTGCACACACGGTGTTGGGCTCTGGC		
				CACTTCAAGGTGACATCTTCTTCTTGCATCTCAGATAGCACCAGGTTTGTGTGTTTATGC[GA]TGTGCACACACGGTGT		
47023 IS	[GA]			TGGGCTCTGGCGGTGGCCTGGGGGTGCTTAGGCTGTGCACAAAT	ctg16687	15
47051 I			A	GATAGGGAGCATCACACTGTTGGGAAATGTGCAT		
47051 P	A		A	CGCGCCGAGGATTTTCACTCAGCCAGCY		
47051 P	C		A	ATGACGTGGCAGACCTTTTCACTCAGCCAGCY		
47051 T	A		A	TGATGCTGGCTGAGTGAAAATTGCACATTTCCCAACAGTGTGATGCTCCCTATCCA		
47051 T	C		A	TGATGCTGGCTGAGTGAAAAGTGCACATTTCCCAACAGTGTGATGCTCCCTATCCA		
				ACAGAAGTCTGCCAAAAGCCCAGGCTGGATAGGGAGCATCACACTGTTGGGAAATGTGCA[AC]TTTTCACTCAGCCAG		
				CATCACTACCAGCTCCGGGCTTCTCTCCTCTGGCCTCCCACCTTG		
47051 IS	[AC]					
47067 I			S	CATGGAGGTGAGGCGGCCACCAAT		
47067 P	T		S	CGCGCCGAGGATGGAGGACAGGAAAGCY		
47067 P	C		S	ATGACGTGGCAGACGTGGAGGACAGGAAAGY		
47067 T	T		S	CCGAGCTTTCCTGTCCTCCATTTGGTGGCCGCCTCACCTCCATGGG		
47067 T	C		S	CCGAGCTTTCCTGTCCTCCACTTGGTGGCCGCCTCACCTCCATGGG		
				CCTGTCCCTACGCACACCCCCTGCCCCTGGGAGGCACATGCCGAGCTTTCCTGTCCTCCA[TC]TTGGTGGCCGCCTC		
47067 IS	[TC]			ACCTCCATGGGGTCGCAGGGCCCACACAGACAGCCTACTATGGTCC	MULTIPLE	MULTIPLE
47069 I			S	GGCAGGGCGCCCAGCCTCATT		
47069 P	C		S	ATGACGTGGCAGACGGAAAGGGTACGTTCGY		
47069 P	T		S	CGCGCCGAGGAGAAAGGGTACGTTCGGY		
47069 T	C		S	CTTCCCGAACGTACCCTTTCCATGAGGCTGGGCGCCCTGCCCT		
47069 T	T		S	CTTCCCGAACGTACCCTTTCTATGAGGCTGGGCGCCCTGCCCT		
				GGGCTGCCCCTGGAACCCAAGTCAGACTTGCCCTCGCCCCCTTCCCGAACGTACCCTTTC[CT]ATGAGGCTGGGCGC		
47069 IS	[CT]			CCTGCCCTGCCTTCAGTGCCAAAGCCCCAGGCCCACAGGCTGTGCA	ctg14007	17
47106 I			S	CAGCAGACAGAGCCCCGCCCCT		
47106 P	C		S	ATGACGTGGCAGACGGGCTCCCGTCGY		
47106 P	T		S	CGCGCCGAGGAGGCTCCCGTCGY		
47106 T	C		S	GAGCCGACGGGAGCCCGGGGCGGGGCTCTGTCTGCTGCT		
47106 T	T		S	GAGCCGACGGGAGCCTGGGGCGGGGCTCTGTCTGCTGCT		
				GCTGTGAGGGTGGAGACAAAGGCCACATAAGCCCAGGATGGCCAGGAGCCGACGGGAGCC[CT]GGGGCGGGGCTC		
47106 IS	[CT]			TGTCTGCTGCTTCCCTCTAAGCTGCCCATGGGGTGAGGACTCCTGGGG	ctg22fin4	22
47115 I			S	AGATACAGGTTAACTACATACAAATGCAGTCCCCAACT		
47115 P	G		S	ATGACGTGGCAGACCTGCCCAGATCAGAGAY		
47115 P	T		S	CGCGCCGAGGATGCCCAGATCAGAGAGY		
47115 T	G		S	TTTTCTCTCTGATCTGGGCAGGTTGGGGACTGCATTTGTATGTAGTTAACCTGTATCTTC		
47115 T	T		S	TTTTCTCTCTGATCTGGGCATGTTGGGGACTGCATTTGTATGTAGTTAACCTGTATCTTC		
				GAAATTTCATACAGCGAAGCTGCAAGTCCTGAACTGGATCTTTTCTCTCTGATCTGGGCA[GT]GTTGGGGACTGCATT		
47115 IS	[GT]			TGTATGTAGTTAACCTGTATCTTCAGAAAGATTCTCCCAAAGCCA		
47135 I			S	GGGTAAATCTCGGAGACGCTTTCATCTCCCTCAACT		
47135 P	T		S	CGCGCCGAGGATGACAGACCTGTGCTY		
47135 P	C		S	ATGACGTGGCAGACGTGACAGACCTGTGCTY		
47135 T	T		S	GAAAAGCACAGGTCTGTCATGTTGAGGGAGATGAAAGCGTCTCCGAGATTTACCCTG		
47135 T	C		S	GAAAAGCACAGGTCTGTCACGTTGAGGGAGATGAAAGCGTCTCCGAGATTTACCCTG		
				AATCTGATTCCAATCCCAGACACTGGCAAAGGACAGGTGCAGAAAAGCACAGGTCTGTCA[TC]GTTGAGGGAGATGAA		
47135 IS	[TC]			AGCGTCTCCGAGATTTACCCTGTATACCCCTCACATACTGTCCAG	ctg17207	19
47142 I			A	GGATAGCAAGGTCAACCAAGGGGATTTGATTATTAAGTAGGAATCTTA		
47142 P	C		A	ATGACGTGGCAGACCAGTCTTTCTTGCTTTTCGY		
47142 P	T		A	CGCGCCGAGGTAGTCTTTCTTGCTTTTCGGY		
47142 T	C		A	TAAACCGAAAAGCAAGAAAGACTGAAGATTCCTACTTAATAATCAAATCCCCTTGGTTGACCTTGCTATCCCC		
47142 T	T		A	TAAACCGAAAAGCAAGAAAGACTAAAGATTCCTACTTAATAATCAAATCCCCTTGGTTGACCTTGCTATCCCC		
				AAAGTTTCACGGGGGATAGCAAGGTCAACCAAGGGGATTTGATTATTAAGTAGGAATCTT[CT]AGTCTTTCTTGCTTTT		
47142 IS	[CT]			CGGTTTAGTATCTCCCTTAATTTGATGAGAGTGATTGTCTCCTC	ctg15842	19
47172 I			A	GCTGGCGGGGAGGGAGCCAA		
47172 P	C		A	ATGACGTGGCAGACCGTCCCGGTCAAGGY		
47172 P	T		A	CGCGCCGAGGTGTCCCGGTCAAGGY		
47172 T	C		A	TTCCCCTTGACCGGGACGTGGCTCCCTCCCCGCCAGCCT		
47172 T	T		A	TTCCCCTTGACCGGGACATGGCTCCCTCCCCGCCAGCCT		
				AAGGTCCCTGAATTCCATACCAGAGATAGCAAAGGAAGTAGGCTGGCGGGGAGGGAGCCA[CT]GTCCCGGTCAAGG		
47172 IS	[CT]			GGAAGGACCTATGGGCTGGTTCTAGTTCCTGCTGGTGGCACCACCCT	ctg15842	19
47254 I			S	TGCTTGGTCTTGACAGCTGTGCTATAACAACCTTGTT		
47254 P	T		S	CGCGCCGAGGATGACATTAATTAAGTTAGCAATCCY		
47254 P	C		S	ATGACGTGGCAGACGTGACATTAATTAAGTTAGCAATCCY		
47254 T	T		S	CATAGGATTGCTAACTTAATTAATGTCATACAAGGTTGTTATAGCACAGCTGTCAAGACCAAGCATT		
47254 T	C		S	CATAGGATTGCTAACTTAATTAATGTCACACAAGGTTGTTATAGCACAGCTGTCAAGACCAAGCATT		
				ACCCTGTTTGTCAACGAGGATGTATATTGGAACATAGGATTGCTAACTTAATTAATGTCA[TC]ACAAGGTTGTTATAGC		
47254 IS	[TC]			ACAGCTGTCAAGACCAAGCATTCCTGGCATTTTATGTTGATGTT	ctg19247	7
47300 I			A	GCCACAGCTGCATCCCCCCGTT		
47300 P	A		A	CGCGCCGAGGAGAGCCTGGCCCTY		
47300 P	G		A	ATGACGTGGCAGACGGAGCCTGGCCCY		
47300 T	A		A	GAGGAGGGCCAGGCTCTACGGGGGGATGCAGCTGTGGCTC		
47300 T	G		A	GAGGAGGGCCAGGCTCCACGGGGGGATGCAGCTGTGGCTC		
				GCGCAGCATTTGGCCTGCCTCGCGGGCCCCTTGTTCAGAGCCACAGCTGCATCCCCCCGT[AG]GAGCCTGGCCCTC		
47300 IS	[AG]			CTCGTCGCTTCTCTGCAGTAGCTCTTGGGCTGTGAACAGCAAGAGGA	MULTIPLE	18
47369 I			A	CCCATGTCCAGCCAGGGGAAGGGT		
47369 P	G		A	ATGACGTGGCAGACGCTAACCCAGAGGCGY		
47369 P	A		A	CGCGCCGAGGACTAACCCAGAGGCGY		
47369 T	G		A	CCACCGCCTCTGGGTTAGCCCCTTCCCCTGGCTGGACATGGGCT		
47369 T	A		A	CCACCGCCTCTGGGTTAGTCCCTTCCCCTGGCTGGACATGGGCT		
				GGGTCCAACTCCACCCCTTCAAATCCTGCAATTTCAGCCCATGTCCAGCCAGGGGAAGGG[GA]CTAACCCAGAGGCG		
47369 IS	[GA]			GTGGGCAAGAGGAGAGATGGACTTTGGAGGACTCCTCCCCAACTTC	ctg15907	6
47395 I			A	CCCCGCCGGCTTGCGCAGA		
47395 P	C		A	ATGACGTGGCAGACCGAGCTGGGTCCCY		
47395 P	T		A	CGCGCCGAGGTGAGCTGGGTCCCAY		
47395 T	C		A	GCCCTGGGACCCAGCTCGCTGCGCAAGCCGGCGGGGGTG		
47395 T	T		A	GCCCTGGGACCCAGCTCACTGCGCAAGCCGGCGGGGTG		
				CCCAGGTGGGGGAGGAAGTGGGCCGCGCTTCGGGAACCCCCACCCCGCCGGCTTGCGCAG[CT]GAGCTGGGTCCC		
47395 IS	[CT]			AGGGCTGGAGGCACCTCATTAAACCGCCTGAAACGTGTGTAACTCTAG	ctg17129	17
47398 I			A	TGAGAACTGGGCTCCCTGGGTGCGA		
47398 P	C		A	ATGACGTGGCAGACCGGCGGGCCCY		

FIGURE 129D

47398 P	T	A	CGCGCCGAGGTGGCGGGCCCAY				
47398 T	C	A	TGCTTGGGCCCGCCGCGCACCCAGGGAGCCCAGTTCTCACT				
47398 T	T	A	TGCTTGGGCCCGCCACGCACCCAGGGAGCCCAGTTCTCACT				
47398 IS	[CT]		AGCATGCACCTGCGCCCTGACCGCTTTGGGGGCCAGTGAGAACTGGGCTCCCTGGGTGCG[CT]GGCGGGCCCAAG CAGGGAGGACATTGCAGATGCCCTGGCCAAGCAGCGTGGAAATCCTGT	ctg16335	2		
49181 I		S	GGACCATTGATCATTCTATTAGGGAACACTCAATCTAAATGCCTAAGCT				
49181 P	C	S	ATGACGTGGCAGACGCTCTATGTCATCCAGTCTY				
49181 P	T	S	CGCGCCGAGGACTCTATGTCATCCAGTCTCY				
49181 T	C	S	GCTGGAGACTGGATGACATAGAGCGCTTAGGCATTTAGATTGAGTGTTCCCTAATAGAATGATCAATGGTCCAT				
49181 T	T	S	GCTGGAGACTGGATGACATAGAGTGCTTAGGCATTTAGATTGAGTGTTCCCTAATAGAATGATCAATGGTCCAT				
49181 IS	[CT]		GGAAGAGCACTAAACAAGGACAGAAGTTTGATAGGTTGCTGGAGACTGGATGACATAGAG[CT]GCTTAGGCATTTAGA TTGAGTGTTCCCTAATAGAATGATCAATGGTCCATGGAAAAGGTA	ctg15907	6		
49183 I		S	GGTGAGCCTGGAGAACCGGAAGCCATTT				
49183 P	G	S	CGCGCCGAGGCAGGTTACAGAGGGTCAY				
49183 P	C	S	ATGACGTGGCAGACGAGGTTACAGAGGGTCAY				
49183 T	G	S	GCTGTGACCCTCTGTAACCTGAATGGCTTCCGGTTCTCCAGGCTCACCAC				
49183 T	C	S	GCTGTGACCCTCTGTAACCTCAATGGCTTCCGGTTCTCCAGGCTCACCAC				
49183 IS	[GC]		TAAGGTGGACGAAGTGGTGGCTCAAAGCCTGGTCTTCCCAGCTGTGACCCTCTGTAACCT[GC]AATGGCTTCCGGTT CTCCAGGCTCACCACCAATGACCTGTACCATGCTGGGGAGCTGCTG	ctg16537	20	ACCN1	
49191 I		A	GCAAATACAGAGGAAATAGCAGGGGTGAGGAAGAAAGAACT				
49191 P	A	A	CGCGCCGAGGACACAATCGACACCATTTY				
49191 P	G	A	ATGACGTGGCAGACGCACAATCGACACCATTY				
49191 T	A	A	TAAAAAATGGTGTCGATTGTGTGTTCTTTCTTCCTCACCCCTGCTATTTCCTCTGTATTTGCAG				
49191 T	G	A	TAAAAAATGGTGTCGATTGTGCGTTCTTTCTTCCTCACCCCTGCTATTTCCTCTGTATTTGCAG				
49191 IS	[AG]		ACGTGCGTGATACTAAAACTGCAAATACAGAGGAAATAGCAGGGGTGAGGAAGAAAGAAC[AG]CACAATCGACACCAT TTTTTAAACAAATGAACCAAACTCACAAGTTTTAAAAAATGAATG	ctg13915	12		
49201 I		S	TGGGGAGGGAGGAGGGGGCCC				
49201 P	C	S	ATGACGTGGCAGACGCAGCTGGAGCTCAY				
49201 P	A	S	CGCGCCGAGGTCAGCTGGAGCTCAGY				
49201 T	C	S	TCCTCTGAGCTCCAGCTGCGGCCCCCTCCTCCCTCCCCAAC				
49201 T	A	S	TCCTCTGAGCTCCAGCTGAGGCCCCCTCCTCCCTCCCCAAC				
49201 IS	[CA]		GCATTGGGCTCTTCCCACATCCCGCTTCCAACATCCGTGGGCTCCTCTGAGCTCCAGCTG[CA]GGCCCCCTCCTCCC TCCCCAACCCTCCCAGCCAAGCTGATGACCGCTTAAGTCTCACCTG	ctg15907	6		
49258 I		A	CAGCACTGAGCAGGCCCCGGAT				
49258 P	C	A	CGCGCCGAGGCAGGAGGGGCTGCY				
49258 P	G	A	ATGACGTGGCAGACGAGGAGGGGCTGCY				
49258 T	C	A	GGCTGCAGCCCCTCCTGTCCGGGGCCTGCTCAGTGCTGTC				
49258 T	G	A	GGCTGCAGCCCCTCCTCTCCGGGGCCTGCTCAGTGCTGTC				
49258 IS	[CG]		CGAGCACAGCACCTTCCCAGTCTCCTGTGCCCCAGCGGACAGCACTGAGCAGGCCCCGGA[CG]AGGAGGGGCTGCA GCCACACACTCTTCCCCACCTGCCCCCCAGCTCAGAGACTCGTGACC	ctg_na	NA	VAX2	
49283 I		A	CCTTGGACAGTGGTGTGGACTCAGTAACCCA				
49283 P	C	A	ATGACGTGGCAGACCGGTTCCTGCAGACAY				
49283 P	T	A	CGCGCCGAGGTGGTTCCTGCAGACAY				
49283 T	C	A	AGCCTGTCTGCAGGAACCGGGGTTACTGAGTCCACACCACTGTCCAAGGCA				
49283 T	T	A	AGCCTGTCTGCAGGAACCAGGGTTACTGAGTCCACACCACTGTCCAAGGCA				
49283 IS	[CT]		TCTGAGCACAGCCAGATTGCAGAGCCACTGCCTTGGACAGTGGTGTGGACTCAGTAACCC[CT]GGTTCCTGCAGACA GGCTCTTACTTCCAGCACGAGGTACTGCTCCGGGGCTGGGGCTTCC	ctg17450	X		
49288 I		A	GCGCGCGCGTGGGGCCT				
49288 P	G	A	ATGACGTGGCAGACGGGCACCACGGCY				
49288 P	C	A	CGCGCCGAGGCGGCACCACGGCY				
49288 T	G	A	GGGTGCCGTGGTGCCCGGCCCCACGCGCGCGCGG				
49288 T	C	A	GGGTGCCGTGGTGCCGGGCCCCACGCGCGCGCGG				
49288 IS	[GC]		TGTTAAAGCTGGGCGGCCAGGGACGCCCCCGACCCCTCAGCCCCGCGCGCGCGTGGGGCC[GC]GGCACCACGGCA CCCCGAGGTCGGCGTCCCCAAACGCTGGGCGGTCTGTTGGGATCAGAA	ctg17129	17		
49311 I		A	GGGCAGCGGGCCGACGGAT				
49311 P	G	A	ATGACGTGGCAGACGGGCTCCAGGCGY				
49311 P	A	A	CGCGCCGAGGAGGCTCCAGGCGY				
49311 T	G	A	CCACCGCCTGGAGCCCTCCGTCGGCCCGCTGCCCTC				
49311 T	A	A	CCACCGCCTGGAGCCTTCCGTCGGCCCGCTGCCCTC				
49311 IS	[GA]		AGGAGCGGAAATATCGGTCGAAGGAGAGAAACGACGTTCGGAGGGCAGCGGGCCGACGGA[GA]GGCTCCAGGCGG TGGGGAAGGGGGTGGGGTCCCTCCCGGCCCGCAGCGGCCCTGACCCTT	ctg14210	12		
49362 I		S	CACCAACCCGGCCCAGAGGTTTCTCTATT				
49362 P	T	S	CGCGCCGAGGATAGTGAGGAAACACTGGGY				
49362 P	C	S	ATGACGTGGCAGACGTAGTGAGGAAACACTGGY				
49362 T	T	S	CCTCCCCAGTGTTTCCTCACTATATAGAGAAACCTCTGGGCCGGGTTGGTGTG				
49362 T	C	S	CCTCCCCAGTGTTTCCTCACTACATAGAGAAACCTCTGGGCCGGGTTGGTGTG				
49362 IS	[TC]		GTGTCTGAAGGTGGATAATCATTTCAATCTCTTGACCACCTCCCCAGTGTTTCCTCACTA[TC]ATAGAGAAACCTCTGG GCCGGGTTGGTGTGTTTCTTGATTTTGAAAGTGGAAGTGTGAGT	ctg15907	6		
49413 I		A	CCTGCATTTCCCCCTCTGCTTACTAAAAGCCAC				
49413 P	T	A	CGCGCCGAGGTTGTCAAAGCCCAGTTCY				
49413 P	G	A	ATGACGTGGCAGACGTGTCAAAGCCCAGTTCY				
49413 T	T	A	ATTTGAACTGGGCTTTGACAATGGCTTTTAGTAAGCAGAGGGGGAAATGCAGGAT				
49413 T	G	A	ATTTGAACTGGGCTTTGACACTGGCTTTTAGTAAGCAGAGGGGGAAATGCAGGAT				
49413 IS	[TG]		TTCACATCTTACTCCCCCACCTAGCATATCCTGCATTTCCCCCTCTGCTTACTAAAAGCCA[TG]TGTCAAAGCCCAGTTC AAATGATACCTCATACATTAAACCTATTTGGGTCACTCCAACAA	ctg15907	6		
49455 I		A	GGATGTCTTTACTGTCACATTAAATGTTTTGAGTGAATACATAATATCTGAAAATT				
49455 P	A	A	CGCGCCGAGGAGCCAAAGACCTAGCAY				
49455 P	G	A	ATGACGTGGCAGACGGCCAAAGACCTAGCAY				
49455 T	A	A	GCCCTGCTAGGTCTTTGGCTATTTTCAGATATTATGTATTCACTCAAAACATTTAATGTGACAGTAAAGACATCCGA				
49455 T	G	A	GCCCTGCTAGGTCTTTGGCCATTTTCAGATATTATGTATTCACTCAAAACATTTAATGTGACAGTAAAGACATCCGA				
49455 IS	[AG]		GGCTCGGATGTCTTTACTGTCACATTAAATGTTTTGAGTGAATACATAATATCTGAAAAT[AG]GCCAAAGACCTAGCAG GGCAAGCACCTGCCAAACACCCAGGATTACAAAAACAAAATTAT	ctg14391	11		
49523 I		S	GCATGGAGCTCCGCTATGCACATTGTTCTGTA				
49523 P	G	S	ATGACGTGGCAGACCCTTACCTATCCAGAGAAATGY				
49523 P	A	S	CGCGCCGAGGTCTTACCTATCCAGAGAAATGY				
49523 T	G	S	GCTGCATTTCTCTGGATAGGTAAGGACAGAACAATGTGCATAGCGGAGCTCCATGCTG				
49523 T	A	S	GCTGCATTTCTCTGGATAGGTAAGAACAGAACAATGTGCATAGCGGAGCTCCATGCTG				
49523 IS	[GA]		ACGTCCTGCTCACAACGGCATCGATTTTTCACCTGTGCTGCATTTCTCTGGATAGGTAAG[GA]ACAGAACAATGTGCA TAGCGGAGCTCCATGCTGGAGACATGACTTGATGGATATTGGGCA	ctg13516	6		
49652 I		S	GTGGAATCGGACAGATCTGTGGGAGGAAAGAAAAAGAC				
49652 P	C	S	ATGACGTGGCAGACGAACTTAGTTGGCCGTGY				
49652 P	A	S	CGCGCCGAGGTAACTTAGTTGGCCGTGY				
49652 T	C	S	GCCCCACGGCCAACTAAGTTCTCTTTTTCTTTCCTCCCACAGATCTGTCCGATTCCACAT				
49652 T	A	S	GCCCCACGGCCAACTAAGTTATCTTTTTCTTTCCTCCCACAGATCTGTCCGATTCCACAT				

FIGURE 129D

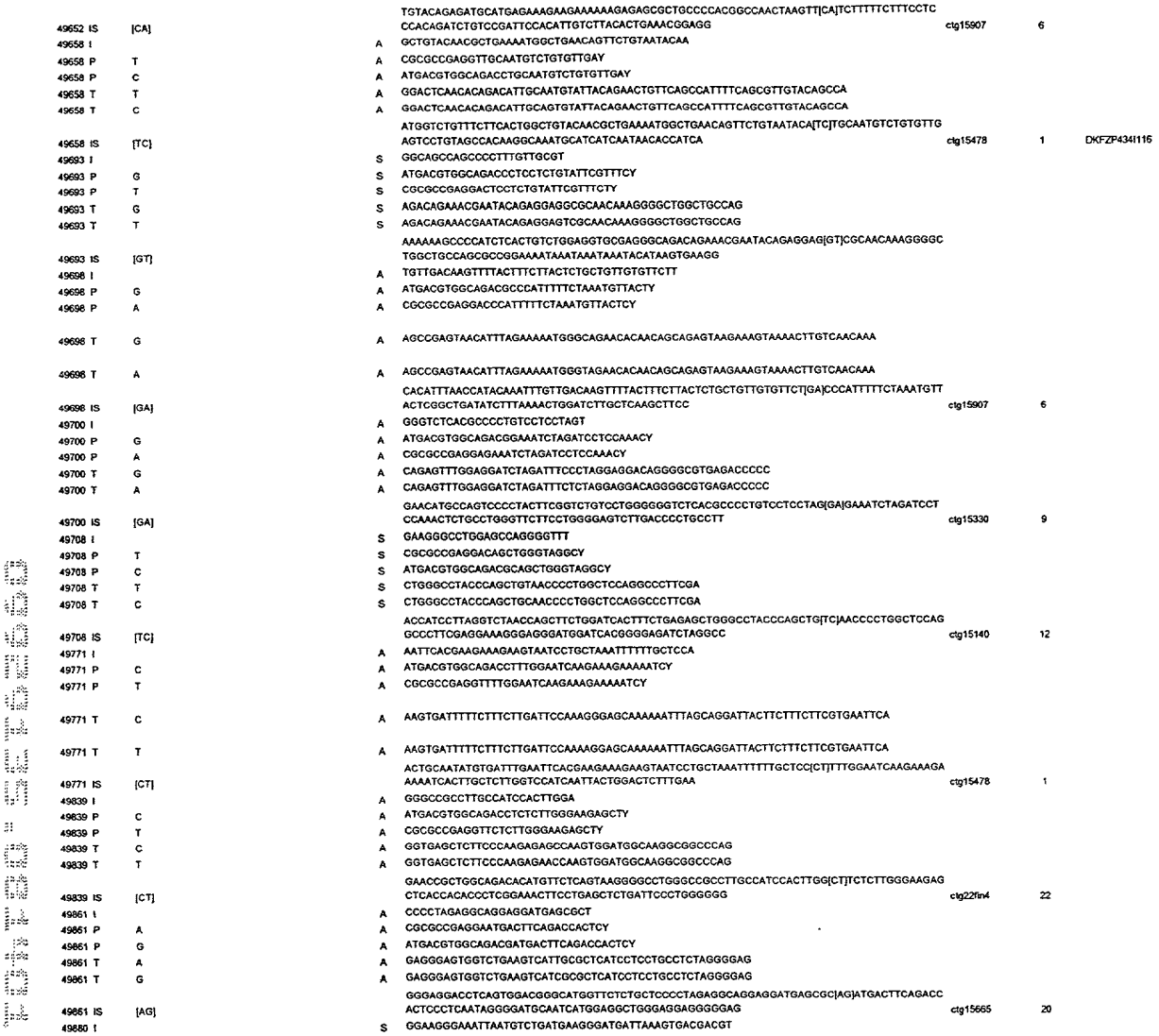

TGTACAGAGATGCATGAGAAAGAAGAAAAAAGAGAGCGCTGCCCCACGGCCAACTAAGTT[CA]TCTTTTTCTTTCCTC
49652 IS [CA] CCACAGATCTGTCCGATTCCACATTGTCTTACACTGAAACGGAGG ctg15907 6
49658 I A GCTGTACAACGCTGAAAATGGCTGAACAGTTCTGTAATACAA
49658 P T A CGCGCCGAGGTTGCAATGTCTGTGTTGAY
49658 P C A ATGACGTGGCAGACCTGCAATGTCTGTGTTGAY
49658 T T A GGACTCAACACAGACATTGCAATGTATTACAGAACTGTTCAGCCATTTTCAGCGTTGTACAGCCA
49658 T C A GGACTCAACACAGACATTGCAGTGTATTACAGAACTGTTCAGCCATTTTCAGCGTTGTACAGCCA
ATGGTCTGTTTCTTCACTGGCTGTACAACGCTGAAAATGGCTGAACAGTTCTGTAATACA[TC]TGCAATGTCTGTGTTG
49658 IS [TC] AGTCCTGTAGCCACAAGGCAAATGCATCATCAATAACACCATCA ctg15478 1 DKFZP434I116
49693 I S GGCAGCCAGCCCCTTTGTTGCGT
49693 P G S ATGACGTGGCAGACCCTCCTCTGTATTCGTTTCY
49693 P T S CGCGCCGAGGACTCCTCTGTATTCGTTTCTY
49693 T G S AGACAGAAACGAATACAGAGGAGGCGCAACAAAGGGGCTGGCTGCCAG
49693 T T S AGACAGAAACGAATACAGAGGAGTCGCAACAAAGGGGCTGGCTGCCAG
AAAAAAGCCCCATCTCACTGTCTGGAGGTGCGAGGGCAGACAGAAACGAATACAGAGGAG[GT]CGCAACAAAGGGC
49693 IS [GT] TGGCTGCCAGCGCCGGAAAATAAATAAATAAATACATAAGTGAAGG
49698 I A TGTTGACAAGTTTTACTTTCTTACTCTGCTGTTGTGTTCTT
49698 P G A ATGACGTGGCAGACGCCCATTTTTCTAAATGTTACTY
49698 P A A CGCGCCGAGGACCCATTTTTCTAAATGTTACTCY
49698 T G A AGCCGAGTAACATTTAGAAAAATGGGCAGAACACAACAGCAGAGTAAGAAAGTAAAACTTGTCAACAAA
49698 T A A AGCCGAGTAACATTTAGAAAAATGGGTAGAACACAACAGCAGAGTAAGAAAGTAAAACTTGTCAACAAA
CACATTTAACCATACAAATTTGTTGACAAGTTTTACTTTCTTACTCTGCTGTTGTGTTCT[GA]CCCATTTTTCTAAATGTT
49698 IS [GA] ACTCGGCTGATATCTTTAAAACTGGATCTTGCTCAAGCTTCC ctg15907 6
49700 I A GGGTCTCACGCCCCTGTCCTCCTAGT
49700 P G A ATGACGTGGCAGACGGAAATCTAGATCCTCCAAACY
49700 P A A CGCGCCGAGGAGAAATCTAGATCCTCCAAACY
49700 T G A CAGAGTTTGGAGGATCTAGATTTCCCTAGGAGGACAGGGGCGTGAGACCCCC
49700 T A A CAGAGTTTGGAGGATCTAGATTTCTCTAGGAGGACAGGGGCGTGAGACCCCC
GAACATGCCAGTCCCCTACTTCGGTCTGTCCTGGGGGGTCTCACGCCCCTGTCCTCCTAG[GA]GAAATCTAGATCCT
49700 IS [GA] CCAAACTCTGCCTGGGTTCTTCCTGGGGAGTCTTGACCCCTGCCTT ctg15330 9
49708 I S GAAGGGCCTGGAGCCAGGGGTTT
49708 P T S CGCGCCGAGGACAGCTGGGTAGGCY
49708 P C S ATGACGTGGCAGACGCAGCTGGGTAGGCY
49708 T T S CTGGGCCTACCCAGCTGTAACCCCTGGCTCCAGGCCCTTCGA
49708 T C S CTGGGCCTACCCAGCTGCAACCCCTGGCTCCAGGCCCTTCGA
ACCATCCTTAGGTCTAACCAGCTTCTGGATCACTTTCTGAGAGCTGGGCCTACCCAGCTG[TC]AACCCCTGGCTCCAG
49708 IS [TC] GCCCTTCGAGGAAAGGGAGGGATGGATCACGGGGAGATCTAGGCC ctg15140 12
49771 I A AATTCACGAAGAAAGAAGTAATCCTGCTAAATTTTTTGCTCCA
49771 P C A ATGACGTGGCAGACCTTTGGAATCAAGAAAGAAAAATCY
49771 P T A CGCGCCGAGGTTTTGGAATCAAGAAAGAAAAATCY
49771 T C A AAGTGATTTTTCTTTCTTGATTCCAAAGGGAGCAAAAAATTTAGCAGGATTACTTCTTTCTTCGTGAATTCA
49771 T T A AAGTGATTTTTCTTTCTTGATTCCAAAAGGAGCAAAAAATTTAGCAGGATTACTTCTTTCTTCGTGAATTCA
ACTGCAATATGTGATTTGAATTCACGAAGAAAGAAGTAATCCTGCTAAATTTTTTGCTCC[CT]TTTGGAATCAAGAAAGA
49771 IS [CT] AAAATCACTTGCTCTTGGTCCATCAATTACTGGACTCTTTGAA ctg15478 1
49839 I A GGGCCGCCTTGCCATCCACTTGGA
49839 P C A ATGACGTGGCAGACCTCTCTTGGGAAGAGCTY
49839 P T A CGCGCCGAGGTTCTCTTGGGAAGAGCTY
49839 T C A GGTGAGCTCTTCCCAAGAGAGCCAAGTGGATGGCAAGGCGGCCCAG
49839 T T A GGTGAGCTCTTCCCAAGAGAACCAAGTGGATGGCAAGGCGGCCCAG
GAACCGCTGGCAGACACATGTTCTCAGTAAGGGGCCTGGGCCGCCTTGCCATCCACTTGG[CT]TCTCTTGGGAAGAG
49839 IS [CT] CTCACCACACCCTCGGAAACTTCCTGAGCTCTGATTCCCTGGGGGG ctg22fin4 22
49861 I A CCCCTAGAGGCAGGAGGATGAGCGCT
49861 P A A CGCGCCGAGGAATGACTTCAGACCACTCY
49861 P G A ATGACGTGGCAGACGATGACTTCAGACCACTCY
49861 T A A GAGGGAGTGGTCTGAAGTCATTGCGCTCATCCTCCTGCCTCTAGGGGAG
49861 T G A GAGGGAGTGGTCTGAAGTCATCGCGCTCATCCTCCTGCCTCTAGGGGAG
GGGAGGACCTCAGTGGACGGGCATGGTTCTCTGCTCCCCTAGAGGCAGGAGGATGAGCGC[AG]ATGACTTCAGACC
49861 IS [AG] ACTCCCTCAATAGGGGATGCAATCATGGAGGCTGGGAGGAGGGGGAG ctg15665 20
49880 I S GGAAGGGAAATTAATGTCTGATGAAGGGATGATTAAAGTGACGACGT
49880 P G S CGCGCCGAGGCAGAAAGGGATTTCACAGGY
49880 P C S ATGACGTGGCAGACGAGAAAGGGATTTCACAGGY
49880 T G S ATTTCCTGTGAAATCCCTTTCTGCGTCGTCACTTTAATCATCCCTTCATCAGACATTAATTTCCCTTCCTT
49880 T C S ATTTCCTGTGAAATCCCTTTCTCCGTCGTCACTTTAATCATCCCTTCATCAGACATTAATTTCCCTTCCTT
TGGAGATCTTCTCTGAAGAATTACTTTCGTATCTTCGTATTTCCTGTGAAATCCCTTTCT[GC]CGTCGTCACTTTAATCA
49880 IS [GC] TCCCTTCATCAGACATTAATTTCCCTTCCTTAGATCTCTGGGA ctg13980 1
49885 I A CCTTCACCACCGCCCTTGCATCACCT
49885 P G A ATGACGTGGCAGACGCTGGCCATCTGTGY
49885 P A A CGCGCCGAGGACTGGCCATCTGTGGY
49885 T G A CCAACCACAGATGGCCAGCGGTGATGCAAGGGCGGTGGTGAAGGCA
49885 T A A CCAACCACAGATGGCCAGTGGTGATGCAAGGGCGGTGGTGAAGGCA
GCCAGGCACACCTCGCTGCTGGGGCTGCAGACCTGCCTTCACCACCGCCCTTGCATCACC[GA]CTGGCCATCTGTG
49885 IS [GA] GTTGGAGCCCTGGCCAGGCCGTGGGCCGCCACACCACACAGACTGAC ctg16537 20
49889 I A GACGGGCCGGGGCTGGCT
49889 P G A ATGACGTGGCAGACGGCCGGCGTGCY
49889 P A A CGCGCCGAGGAGCCGGCGTGCY
49889 T G A GAGGGCACGCCGGCCGCCAGCCCCGGCCCGTCCT
49889 T A A GAGGGCACGCCGGCTGCCAGCCCCGGCCCGTCCT
CTACGACAGCGACTGCCACAGCTCCTTCTCGGACGAGGACGAGGACGGGCCGGGGCTGGC[GA]GCCGGCGTGCCC
49889 IS [GA] TCCCGCTTCCTCGCCCGCCTGTCCGTGTCCTCTTCCTCCTCTGGCTCG ctg22fin3 22
49917 I S GTAGTGTATAATGTTCATGGGCACTTTTTAGTTTCTCAGTAAAAGTAAATTAA
49917 P G S ATGACGTGGCAGACCGGTTTTTGAACAGTTCCY
49917 P A S CGCGCCGAGGTGGTTTTTGAACAGTTCCTY
49917 T G S CTTCAGGAACTGTTCAAAAACCGTAATTTACTTTTACTGAGAAACTAAAAAGTGCCCATGAACATTATACACTACCG
49917 T A S CTTCAGGAACTGTTCAAAAACCATAATTTACTTTTACTGAGAAACTAAAAAGTGCCCATGAACATTATACACTACCG
GGCAGAATCTTTCTACTGGGGTTGAAAATTCAAACCCACTTCAGGAACTGTTCAAAAACC[GA]TAATTTACTTTTACTGA
49917 IS [GA] GAAACTAAAAAGTGCCCATGAACATTATACACTACCGAGAATT ctg15665 20
49941 I A GTAGTCGGACCAGTCAGGTTTTTGATATCAGGTATT
49941 P A A CGCGCCGAGGAAAAGGGCACATTTCGAAY
49941 P G A ATGACGTGGCAGACGAAAGGGCACATTTCGAY
49941 T A A GTATTTCGAAATGTGCCCTTTTATACCTGATATCAAAAACCTGACTGGTCCGACTACAA
49941 T G A GTATTTCGAAATGTGCCCTTTCATACCTGATATCAAAAACCTGACTGGTCCGACTACAA

FIGURE 129D

				GATTCTTGGCTGTTTATCTAAAGTTGTAGTCGGACCAGTCAGGTTTTTGATATCAGGTAT[AG]AAAGGGCACATTTCGA		
49941	IS	[AG]		AATACGTAGTCGATCTTGTTTTAAATGTACACTTAAATTTGTTT	ctg14243	19
49945	I		S	TCTGGAGGCTCCAGTCGCATTCTCTTGAAAATGTTC		
49945	P	C	S	ATGACGTGGCAGACGGGTTGGGAAATCTTACAGY		
49945	P	A	S	CGCGCCGAGGTGGTTGGGAAATCTTACAGY		
49945	T	C	S	*TCCACTGTAAGATTTCCCAACCCAACATTTTCAAGAGAATGCGACTGGAGCCTCCAGACT*		
49945	T	A	S	TCCACTGTAAGATTTCCCAACCAAACATTTTCAAGAGAATGCGACTGGAGCCTCCAGACT		
				GATTCTGGGCATATCAGATGTCTTGTAGCACTTTCTACTCCACTGTAAGATTTCCCAACC[CA]AACATTTTCAAGAGAA		
49945	IS	[CA]		TGCGACTGGAGCCTCCAGACTGACAGCTAAGTGCGCATCTCAGT	ctg15590	7
49963	I		A	GACAGGCAACCATGGAGTTGTGCACCCA		
49963	P	C	A	ATGACGTGGCAGACCAGTCTTGCGGTGAGTY		
49963	P	T	A	CGCGCCGAGGTAGTCTTGCGGTGAGTY		
49963	T	C	A	GCCCACTCACCGCAAGACTGGGGTGCACAACTCCATGGTTGCCTGTCAG		
49963	T	T	A	GCCCACTCACCGCAAGACTAGGGTGCACAACTCCATGGTTGCCTGTCAG		
				GGACTCCCTGGGCCGAACTGTGGACCTGGGGCTGACAGGCAACCATGGAGTTGTGCACCC[CT]AGTCTTGCGGTGA		
49963	IS	[CT]		GTGGGCCTAACAGGCATACCCCCTATTTCAATGCCCTCCTGCCAGAT	ctg15144	12
49964	I		S	CACGTTATATTTAGGATAATGCTATGGCTCTTTTTTGGTCATTATGTATAATCC		
49964	P	T	S	CGCGCCGAGGATGAAATGCCATTTCCTCAY		
49964	P	A	S	ATGACGTGGCAGACTTGAAATGCCATTTCCTCAY		
49964	T	T	S	AAGTTGAGGAAATGGCATTTCATGATTATACATAATGACCAAAAAAGAGCCATAGCATTATCCTAAATATAACGTGCA		
49964	T	A	S	AAGTTGAGGAAATGGCATTTCAAGATTATACATAATGACCAAAAAAGAGCCATAGCATTATCCTAAATATAACGTGCA		
				TCTATGCATATCATTTCCTTCAGCTATGATATGGAGAAAAGTTGAGGAAATGGCATTTCA[TA]GATTATACATAATGACC		
49964	IS	[TA]		AAAAAAGAGCCATAGCATTATCCTAAATATAACGTGCAACAGA	ctg19262	19
50045	I		A	GATGAATTTCTCTAACGATAGTGCCATGGCCTGT		
50045	P	G	A	*ATGACGTGGCAGACGAGTTAGCCTCTATTCCTGY*		
50045	P	C	A	CGCGCCGAGGCAGTTAGCCTCTATTCCTGY		
50045	T	G	A	GATGCAGGAATAGAGGCTAACTCCAGGCCATGGCACTATCGTTAGAGAAATTCATCTG		
50045	T	C	A	GATGCAGGAATAGAGGCTAACTGCAGGCCATGGCACTATCGTTAGAGAAATTCATCTG		
				TGTAGATTATTATTCATTGAATAAACAGATGAATTTCTCTAACGATAGTGCCATGGCCTG[GC]AGTTAGCCTCTATTCCT		
50045	IS	[GC]		GCATCTGCAAGGTGGAAACAGGCAGGGTGAGGGGGGGATAGGC	ctg22fin4	22
50051	I		S	AGTGTGTCTTTTGTGAAACTGCATAAGGCTCACAATGTATGGT		
50051	P	C	S	ATGACGTGGCAGACGTTTTCCTCTTTAGCATTTTGAAY		
50051	P	T	S	*CGCGCCGAGGATTTTCCTCTTTAGCATTTTGAAY*		
50051	T	C	S	GTACTTCAAAATGCTAAAGAGGAAAACCCATACATTGTGAGCCTTATGCAGTTTCACAAAAGACACACTAA		
50051	T	T	S	GTACTTCAAAATGCTAAAGAGGAAAATCCATACATTGTGAGCCTTATGCAGTTTCACAAAAGACACACTAA		
				TGGAGATGTCAAATGAGTCAGTGTCCAAGTTTGTGTACTTCAAAATGCTAAAGAGGAAAA[CT]CCATACATTGTGAGCC		
50051	IS	[CT]		TTATGCAGTTTCACAAAAGACACACTAAAACAAATTCTGAATCT	ctg15279	10
50052	I		A	GGAGAAGAGGACAGGGAGGAGGTGGGGT		
50052	P	G	A	ATGACGTGGCAGACGTGGGGGAAGGAGTCY		
50052	P	A	A	CGCGCCGAGGATGGGGGAAGGAGTCY		
50052	T	G	A	TTTAGACTCCTTCCCCCACCCCCACCTCCTCCCTGTCCTCTTCTCCCA		
50052	T	A	A	TTTAGACTCCTTCCCCCATCCCCACCTCCTCCCTGTCCTCTTCTCCCA		
				GAACACAGTGGATTGGGGGATGCAGGTAAGATGGGAGAAGAGGACAGGGAGGAGGTGGGG[GA]TGGGGGAAGGAG		
50052	IS	[GA]		*TCTAAAGGGTGCTGGGGGACACACAGACAAGACTGCAGGAAGGAAAGA*	MULTIPLE	MULTIPLE
50084	I		S	GGCCTTTTGTCAGCAGGCCGCACAT		
50084	P	G	S	ATGACGTGGCAGACCGCGCCGGACCY		
50084	P	T	S	CGCGCCGAGGAGCGCCGGACCY		
50084	T	G	S	ACCCGGTCCGGCGCGTGTGCGGCCTGCTGACAAAAGGCCGA		
50084	T	T	S	ACCCGGTCCGGCGCTTGTGCGGCCTGCTGACAAAAGGCCGA		
				GTCCCGTCTGCCGGGACTAGGCCGCGGCCAGGCCGGGCACAGCGGTACCCGGTCCGGCGC[GT]TGTGCGGCCTGC		
50084	IS	[GT]		TGACAAAAGGCCGAGCCCGCAGGGCCAATCCGCGCGCCACCCCGTAGC	ctg15540	4
50092	I		S	AGGTCCTCAGTCCTGCGCCCCTGA		
50092	P	G	S	ATGACGTGGCAGACCCCTTTTCCCGCAGAY		
50092	P	A	S	CGCGCCGAGGTCCTTTTCCCGCAGAY		
50092	T	G	S	GTACTCTGCGGGAAAAGGGCAGGGGCGCAGGACT*GAGGACCTTG*		
50092	T	A	S	GTACTCTGCGGGAAAAGGACAGGGGCGCAGGACTGAGGACCTTG		
				GGTGGAGAGGATCATGGTGGCCTGGACCGCCTGCAGCGTGGAGTACTCTGCGGGAAAAGG[GA]CAGGGGCGCAGG		
50092	IS	[GA]		ACTGAGGACCTTGGCCAGCCGGCACTGCGGGGTACACAGCGACCGCAG	ctg15064	7
50098	I		A	GGAAAATAGGAGCAGGATTTCCCCTGGGGAAAAGTTT		
50098	P	C	A	*ATGACGTGGCAGACCTCCTGGGACATCTTCTY*		
50098	P	A	A	CGCGCCGAGGATCCTGGGACATCTTCTGY		
50098	T	C	A	AGAGCAGAAGATGTCCCAGGAGAACTTTTCCCCAGGGGAAATCCTGCTCCTATTTTCCGC		
50098	T	A	A	AGAGCAGAAGATGTCCCAGGATAACTTTTCCCCAGGGGAAATCCTGCTCCTATTTTCCGC		
				TTGATGACCTCGAAGGTCACAGGCGGAAAATAGGAGCAGGATTTCCCCTGGGGAAAAGTT[CA]TCCTGGGACATCTT		
50098	IS	[CA]		CTGCTCTTCTGTACATTTCTAGATGCAAATAACTCCTTCACCAGGC	ctg22fin7	22
50138	I		S	CTGTGGAGCAGGCCTGATTGTCCTCCTGT		
50138	P	T	S	CGCGCCGAGGACCTTCTCTTCCTCTTCCY		
50138	P	C	S	ATGACGTGGCAGACGCCTTCTCTTCCTCTTCY		
50138	T	T	S	GCAGGGAAGAGGAAGAGAAGGTCAGGAGGACAATCAGGCCTGCTCCACAGGG		
50138	T	C	S	GCAGGGAAGAGGAAGAGAAGGCCAGGAGGACAATCAGGCCTGCTCCACAGGG		
				CCTGTGGTTGAAGGCAGGCCTAGAAAGGAGAGGGGGTAGGCAGGGAAGAGGAAGAGAAGG[TC]CAGGAGGACAATC		
50138	IS	[TC]		AGGCCTGCTCCACAGGGGATAGGAAGGCCCAAAAAAGGAACAGCCT	ctg18911	9
50167	I		S	AAACTGCTGCCTCAGATTTTTTCTTTTCCCCTC		
50167	P	A	S	CGCGCCGAGGTTGTAGCAAATATTCTGACAACY		
50167	P	C	S	ATGACGTGGCAGACGTGTAGCAAATATTCTGACAACY		
50167	T	A	S	*TGTGGTTGT*CAGAATATTTGCTACAAAGGGAAAAGAAAAAATCTGAGGCAGCAGTTTCT		
50167	T	C	S	TGTGGTTGTCAGAATATTTGCTACACAGGGAAAAGAAAAAATCTGAGGCAGCAGTTTCT		
				CTGTAGCCAGCCTCTCAATGCAAATGATAAAATTGTGTGGTTGTCAGAATATTTGCTACA[AC]AGGGGAAAAGAAAAAA		
50167	IS	[AC]		TCTGAGGCAGCAGTTTCTCTTAATGTGGTAATAGCCTAGTCATA	ctg17004	X
50199	I		S	GCGGATTGCAGATCCCACTCTGTGAGTAGGAAT		
50199	P	G	S	CGCGCCGAGGCCTTTGCCACGTGGY		
50199	P	C	S	ATGACGTGGCAGACGCTTTGCCACGTGGY		
50199	T	G	S	GGATCCACGTGGCAAAGGTTCCTACTCACAGAGTGGGATCTGCAATCCGCAG		
50199	T	C	S	GGATCCACGTGGCAAAGCTTCCTACTCACAGAGTGGGATCTGCAATCCGCAG		
				TTTCTGGCTTCCGGACAAATGCTTGTTTGCAGGAGGCCACAGAGGATCCACGTGGCAAAG[GC]TTCCTACTCACAGA		
50199	IS	[GC]		GTGGGATCTGCAATCCGCAGGCAGGGTCCTTCAGGAAGAAGCCGTG		
50202	I		S	GAAGCATGAAGACCTTGGTCCAATGACTCTTTT		
50202	P	C	S	ATGACGTGGCAGACGAAGTTGCTCAATTCCAGTY		
50202	P	T	S	CGCGCCGAGGAAAGTTGCTCAATTCCAGTY		
50202	T	C	S	GAACACTGGAATTGAGCAACTTCAAAGAGTCATTGGACCAAGGTCTTCATGCTTCAA		
50202	T	T	S	GAACACTGGAATTGAGCAACTTTAAAGAGTCATTGGACCAAGGTCTTCATGCTTCAA		
				*TTACAGGCCAGTTGTT*GACATTGTAGTATCCTCTCTTTGAACACTGGAATTGAGCAACTT[CT]AAAGAGTCATTGGACC		
50202	IS	[CT]		AAGGTCTTCATGCTTCAAATAAACCTGCATCAAAGAAACCTGGC	ctg15064	7
50203	I		S	CCATGGGAATGGACCTCCCATTTAGTGGCTTTT		
50203	P	T	S	CGCGCCGAGGAAAACTTCACCACAATGTAGTY		

FIGURE 129D

50203	P	G	S	ATGACGTGGCAGACCAAACTTCACCACAATGTAGY			
50203	T	T	S	AATGACTACATTGTGGTGAAGTTTTAAAGCCACTAAATGGGAGGTCCATTCCCATGGCA			
50203	T	G	S	AATGACTACATTGTGGTGAAGTTTGAAAGCCACTAAATGGGAGGTCCATTCCCATGGCA			
50203	IS	[TG]		AACCCTTTTCAGAGAAGATAAAGGAATTAGCTGTTTAATGACTACATTGTGGTGAAGTTT[TG]AAAGCCACTAAATGGG AGGTCCATTCCCATGGCACCATTGCTAGCAGCCCAAACACAGTC	ctg19247	7	
50204	I		S	GAGCAGGGAGGGTGCTGGGGGA			
50204	P	A	S	CGCGCCGAGGTGGGGCTTCTGGGY			
50204	P	G	S	ATGACGTGGCAGACCGGGGCTTCTGGGY			
50204	T	A	S	GCCCCCCAGAAGCCCCACCCCCAGCACCCTCCCTGCTCTG			
50204	T	G	S	GCCCCCCAGAAGCCCCGCCCCCAGCACCCTCCCTGCTCTG			
50204	IS	[AG]		TGGTGCCCCAGAAGCCCTGCCCCAGCGCCTCCCCATCTTTCCTGGCCCCCCAGAAGCCCC[AG]CCCCCAGCACCCT CCCTGCTCTGCCTTCCCCAGAGCACTTGCATTCTTACACCCTCAATC	ctg25099	7	
50226	I		S	CAGACAGTGTTGATCTGGCTTGGAGCCCAA			
50226	P	G	S	ATGACGTGGCAGACCAGTGGCAATCCTTGGY			
50226	P	A	S	CGCGCCGAGGTAGTGGCAATCCTTGGAY			
50226	T	G	S	CCACTCCAAGGATTGCCACTGTGGGCTCCAAGCCAGATCAACACTGTCTGTG			
50226	T	A	S	CCACTCCAAGGATTGCCACTATGGGCTCCAAGCCAGATCAACACTGTCTGTG			
50226	IS	[GA]		ACTTCTCAAGCACTAGGAAGAACTGAGATCTCTGCTGCCTCCACTCCAAGGATTGCCACT[GA]TGGGCTCCAAGCCAG ATCAACACTGTCTGTGTGCAGAGTTGTAGTCAGGCAGGAACAAGA	ctg15140	12	
50269	I		S	CCATCAAGCAGAGGAGACATGTTTCTCGGCTTCA			
50269	P	A	S	CGCGCCGAGGTCCTCTCTGGGACTTAATAGY			
50269	P	G	S	ATGACGTGGCAGACCCCTCTCTGGGACTTAATAY			
50269	T	A	S	GAGGCTATTAAGTCCCAGAGAGGAGAAGCCGAGAAACATGTCTCCTCTGCTTGATGGCA			
50269	T	G	S	GAGGCTATTAAGTCCCAGAGAGGGGAAGCCGAGAAACATGTCTCCTCTGCTTGATGGCA			
50269	IS	[AG]		AGACACAGCTTCATGAGTCAGTAAAGGCTAGCCTTCAGAGGCTATTAAGTCCCAGAGAGG[AG]GAAGCCGAGAAACAT GTCTCCTCTGCTTGATGGCAGTGTCATGTGCAGGATGTTTTCCTG	ctg15054	7	
50274	I		A	CTTCCACTTAGTCCTCCGTTCATAGGGCCCAT			
50274	P	A	A	CGCGCCGAGGATAGCTTCCTATCAAGCATCY			
50274	P	G	A	ATGACGTGGCAGACGTAGCTTCCTATCAAGCATCY			
50274	T	A	A	TTGAGATGCTTGATAGGAAGCTATTGGGCCCTATGAACGGAGGACTAAGTGGAAGGG			
50274	T	G	A	TTGAGATGCTTGATAGGAAGCTACTGGGCCCTATGAACGGAGGACTAAGTGGAAGGG			
50274	IS	[AG]		AAAATGGTTGCAACTTAAGTGATTTTCCCCTTCCACTTAGTCCTCCGTTCATAGGGCCCA[AG]TAGCTTCCTATCAAGC ATCTCAAAATCTTTCTGACACCTGGATTTCAAGATTTTCCATTA	ctg13740	5	
50278	I		S	GCTTAAAAAAGCAAAAAGAAAACATACTGGGGGATATTTTAATTGAGATTTTCT			
50278	P	C	S	ATGACGTGGCAGACGTCCTCCCTTAGCAAGGY			
50278	P	T	S	CGCGCCGAGGATCCTCCCTTAGCAAGGY			
50278	T	C	S	GTGTCCTTGCTAAGGGAGGACGAAAATCTCAATTAAAATATCCCCCAGTATGTTTTCTTTTTGCTTTTTTAAGCTG			
50278	T	T	S	GTGTCCTTGCTAAGGGAGGATGAAAATCTCAATTAAAATATCCCCCAGTATGTTTTCTTTTTGCTTTTTTAAGCTG			
50278	IS	[CT]		TGAGCCAAACAAGGGAATTATTATCAAGTTGAAGAAGAATGTGTCCTTGCTAAGGGAGGA[CT]GAAAATCTCAATTAAA ATATCCCCCAGTATGTTTTCTTTTTGCTTTTTTAAGCTGAGAGA			
50281	I		A	TGTCTAAGGACCCTAAATGAACGATAAACAGAGATGGTAGCTATGAGTATT			
50281	P	A	A	CGCGCCGAGGACAAAAGGTAAATCCACTTAATCY			
50281	P	G	A	ATGACGTGGCAGACGCAAAAGGTAAATCCACTTAATY			
50281	T	A	A	ATGTGATTAAGTGGATTTACCTTTTGTATACTCATAGCTACCATCTCTGTTTATCGTTCATTTAGGGTCCTTAGACAAG			
50281	T	G	A	ATGTGATTAAGTGGATTTACCTTTTGCATACTCATAGCTACCATCTCTGTTTATCGTTCATTTAGGGTCCTTAGACAAG			
50281	IS	[AG]		TCTTGCACCTTGTCTAAGGACCCTAAATGAACGATAAACAGAGATGGTAGCTATGAGTAT[AG]CAAAAGGTAAATCCAC TTAATCACATACAGAAGAGCAACAACAAACTGCTTACGACAGGT	ctg19262	19	
50287	I		S	GAAAAGGAGGGCATCCTAGATGGAACTCAGTTGGAT			
50287	P	C	S	ATGACGTGGCAGACGAGGAGGAATCAGGAGACY			
50287	P	T	S	CGCGCCGAGGAAGGAGGAATCAGGAGACY			
50287	T	C	S	GAGTGTCTCCTGATTCCTCCTCTCCAACTGAGTTCCATCTAGGATGCCCTCCTTTTCCA			
50287	T	T	S	GAGTGTCTCCTGATTCCTCCTTTCCAACTGAGTTCCATCTAGGATGCCCTCCTTTTCCA			
50287	IS	[CT]		GTGACTCTGCTTTGTTTGCTCATGCCACACATTGTCTGAGAGTGTCTCCTGATTCCTCCT[CT]TCCAACTGAGTTCCAT CTAGGATGCCCTCCTTTTCCATGAAACCCCTTTAGGACATCTAA	ctg_na	NA	
50301	I		A	GTTGCTAACAATTGGGCTGACTAGAGAAGCCTAAAGTTAGGT			
50301	P	A	A	CGCGCCGAGGATGAAAATAAAATGCCACACAY			
50301	P	G	A	ATGACGTGGCAGACGTGAAAATAAAATGCCACACAY			
50301	T	A	A	CCAGTGTGTGGCATTTTATTTTCATCCTAACTTTAGGCTTCTCTAGTCAGCCCAATTGTTAGCAACAA			
50301	T	G	A	CCAGTGTGTGGCATTTTATTTTCACCCTAACTTTAGGCTTCTCTAGTCAGCCCAATTGTTAGCAACAA			
50301	IS	[AG]		TCCATCTATCTAATTTCTTGTTGCTAACAATTGGGCTGACTAGAGAAGCCTAAAGTTAGG[AG]TGAAAATAAAATGCCA CACACTGGAATTAACTTTTCTGGGGTATAAGAATCCGTAAGCAA	ctg22fin3	22	
50302	I		S	CGCTGGCCAGGCCCAGATGCT			
50302	P	C	S	ATGACGTGGCAGACGGGAAACCGTGGGAY			
50302	P	T	S	CGCGCCGAGGAGGAAACCGTGGGAGY			
50302	T	C	S	GGTTCTCCCACGGTTTCCCGCATCTGGGCCTGGCCAGCGCC			
50302	T	T	S	GGTTCTCCCACGGTTTCCTGCATCTGGGCCTGGCCAGCGCC			
50302	IS	[CT]		GGGACGGGGGGCGGGTGGGAAGAGCGCCCAGGGCCCCCTCCGGGTTCTCCCACGGTTTCC[CT]GCATCTGGGCCT GGCCAGCGCCTTTGGGAGGAAGGGCCTAGGCGCGGTAGGGATGCCTGG	ctg19247	7	
50327	I		A	CTGTGTGCAGGTAATATGCAGGCTTGTGAAGAAAGTCT			
50327	P	G	A	ATGACGTGGCAGACGAAATACAAGCACAGGCAY			
50327	P	C	A	CGCGCCGAGGCAAATACAAGCACAGGCAY			
50327	T	G	A	CTCCTGCCTGTGCTTGTATTTCGACTTTCTTCACAAGCCTGCATATTACCTGCACACAGCT			
50327	T	C	A	CTCCTGCCTGTGCTTGTATTTGGACTTTCTTCACAAGCCTGCATATTACCTGCACACAGCT			
50327	IS	[GC]		GTGACCCTCAGGGGCACAGGCAGCTGTGTGCAGGTAATATGCAGGCTTGTGAAGAAAGTC[GC]AAATACAAGCACAG GCAGGAGTTCTTCAGAGCACGTGGGCTGCACAAGGGCTCTGTGTTC	ctg15972	16	LUZP3
50332	I		S	TGGTTAGCCCATCATTGTATGGCTTGACCCTGAAAA			
50332	P	A	S	CGCGCCGAGGTGGACTTTTACAAAATTCCCTY			
50332	P	G	S	ATGACGTGGCAGACCGGACTTTTACAAAATTCCCY			
50332	T	A	S	ATAGAGGGAATTTTGTAAAAGTCCATTTCAGGGTCAAGCCATACAATGATGGGCTAACCATT			
50332	T	G	S	ATAGAGGGAATTTTGTAAAAGTCCGTTTCAGGGTCAAGCCATACAATGATGGGCTAACCATT			
50332	IS	[AG]		ATTACTTCCTCCAGATCCAGGTAGTATGAAAATAATATAGAGGGAATTTTGTAAAAGTCC[AG]TTTCAGGGTCAAGCCA TACAATGATGGGCTAACCATTGCCTGTCTCTGAGCCACGTAGCA	ctg14932	16	
50345	I		S	GCTAGTGATGTCCTCTGAGGAAGTAGGAAGAGCATGTGT			
50345	P	C	S	ATGACGTGGCAGACGTCACTACTTACACTATCTGACY			
50345	P	T	S	CGCGCCGAGGATCACTACTTACACTATCTGACY			
50345	T	C	S	CGGGGTCAGATAGTGTAAGTAGTGACCACATGCTCTTCCTACTTCCTCAGAGGACATCACTAGCTG			
50345	T	T	S	CGGGGTCAGATAGTGTAAGTAGTGATCACATGCTCTTCCTACTTCCTCAGAGGACATCACTAGCTG			
50345	IS	[CT]		GGAAGTGATGGGTTCCTCCTGTCAATCAGAAGGCACGGGGTCAGATAGTGTAAGTAGTGA[CT]CACATGCTCTTCCTA CTTCCTCAGAGGACATCACTAGCTGCCTACCCATGATTTACACAA	ctg18037	7	
50348	I		S	AGGCCTGCCATTCCCCCGCCC			
50348	P	T	S	CGCGCCGAGGAGAGGGAGTTTCCTGTAAGY			
50348	P	A	S	ATGACGTGGCAGACTGAGGGAGTTTCCTGTAAY			
50348	T	T	S	CCCTCTTACAGGAAACTCCCTCTGGCGGGGGAATGGCAGGCCTAT			

FIGURE 129D

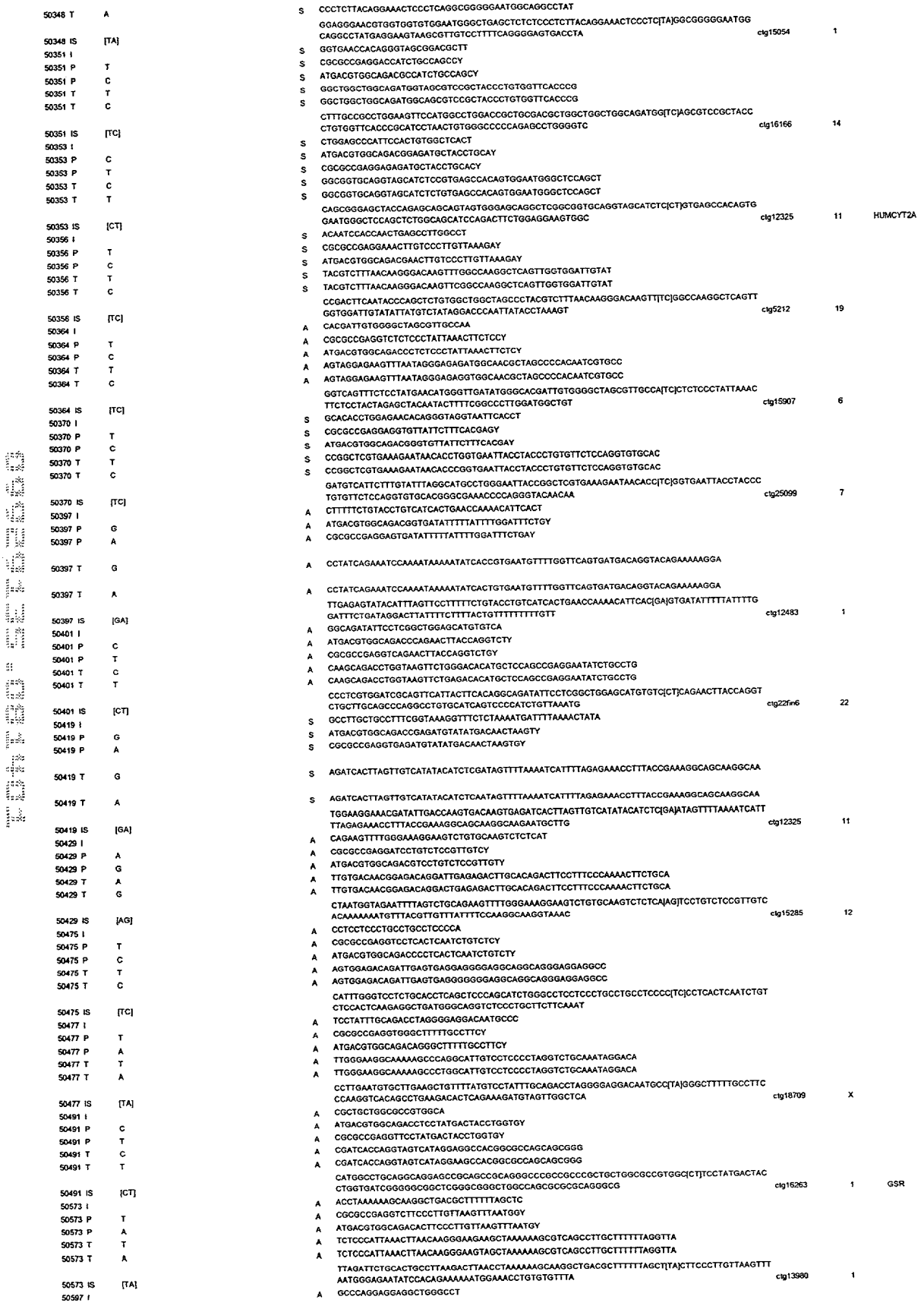

50348 T A
50348 IS [TA]
50351 I
50351 P T
50351 P C
50351 T T
50351 T C
50351 IS [TC]
50353 I
50353 P C
50353 P T
50353 T C
50353 T T
50353 IS [CT]
50356 I
50356 P T
50356 P C
50356 T T
50356 T C
50356 IS [TC]
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50364 P C
50364 T T
50364 T C
50364 IS [TC]
50370 I
50370 P T
50370 P C
50370 T T
50370 T C
50370 IS [TC]
50397 I
50397 P G
50397 P A
50397 T G
50397 T A
50397 IS [GA]
50401 I
50401 P C
50401 P T
50401 T C
50401 T T
50401 IS [CT]
50419 I
50419 P G
50419 P A
50419 T G
50419 T A
50419 IS [GA]
50429 I
50429 P A
50429 P G
50429 T A
50429 T G
50429 IS [AG]
50475 I
50475 P T
50475 P C
50475 T T
50475 T C
50475 IS [TC]
50477 I
50477 P T
50477 P A
50477 T T
50477 T A
50477 IS [TA]
50491 I
50491 P C
50491 P T
50491 T C
50491 T T
50491 IS [CT]
50573 I
50573 P T
50573 P A
50573 T T
50573 T A
50573 IS [TA]
50597 I
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CAGGCCTATGAGGAAGTAAGCGTTGTCCTTTTCAGGGGAGTGACCTA ctg15054 1
S GGTGAACCACAGGGTAGCGGACGCTT
S CGCGCCGAGGACCATCTGCCAGCCY
S ATGACGTGGCAGACGCCATCTGCCAGCY
S GGCTGGCTGGCAGATGGTAGCGTCCGCTACCCTGTGGTTCACCCG
S GGCTGGCTGGCAGATGGCAGCGTCCGCTACCCTGTGGTTCACCCG
CTTTGCCGCCTGGAAGTTCCATGGCCTGGACCGCTGCGACGCTGGCTGGCTGGCAGATGG[TC]AGCGTCCGCTACC
CTGTGGTTCACCCGCATCCTAACTGTGGGCCCCCAGAGCCTGGGGTC ctg16166 14
S CTGGAGCCCATTCCACTGTGGCTCACT
S ATGACGTGGCAGACGGAGATGCTACCTGCAY
S CGCGCCGAGGAGAGATGCTACCTGCACY
S GGCGGTGCAGGTAGCATCTCCGTGAGCCACAGTGGAATGGGCTCCAGCT
S GGCGGTGCAGGTAGCATCTCTGTGAGCCACAGTGGAATGGGCTCCAGCT
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S ACAATCCACCAACTGAGCCTTGGCCT
S CGCGCCGAGGAAACTTGTCCCTTGTTAAAGAY
S ATGACGTGGCAGACGAACTTGTCCCTTGTTAAAGAY
S TACGTCTTTAACAAGGGACAAGTTTGGCCAAGGCTCAGTTGGTGGATTGTAT
S TACGTCTTTAACAAGGGACAAGTTCGGCCAAGGCTCAGTTGGTGGATTGTAT
CCGACTTCAATACCCAGCTCTGTGGCTGGCTAGCCCTACGTCTTTAACAAGGGACAAGTT[TC]GGCCAAGGCTCAGTT
GGTGGATTGTATATTATGTCTATAGGACCCAATTATACCTAAAGT ctg5212 19
A CACGATTGTGGGGCTAGCGTTGCCAA
A CGCGCCGAGGTCTCTCCCTATTAAACTTCTCCY
A ATGACGTGGCAGACCCTCTCCCTATTAAACTTCTCY
A AGTAGGAGAAGTTTAATAGGGAGAGATGGCAACGCTAGCCCCACAATCGTGCC
A AGTAGGAGAAGTTTAATAGGGAGAGGTGGCAACGCTAGCCCCACAATCGTGCC
GGTCAGTTTCTCCTATGAACATGGGTTGATATGGGCACGATTGTGGGGCTAGCGTTGCCA[TC]CTCTCCCTATTAAAC
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S GCACACCTGGAGAACACAGGGTAGGTAATTCACCT
S CGCGCCGAGGAGGTGTTATTCTTTCACGAGY
S ATGACGTGGCAGACGGGTGTTATTCTTTCACGAY
S CCGGCTCGTGAAAGAATAACACCTGGTGAATTACCTACCCTGTGTTCTCCAGGTGTGCAC
S CCGGCTCGTGAAAGAATAACACCCGGTGAATTACCTACCCTGTGTTCTCCAGGTGTGCAC
GATGTCATTCTTTGTATTTAGGCATGCCTGGGAATTACCGGCTCGTGAAAGAATAACACC[TC]GGTGAATTACCTACCC
TGTGTTCTCCAGGTGTGCACGGGCGAAACCCCAGGGTACAACAA ctg25099 7
A CTTTTTCTGTACCTGTCATCACTGAACCAAAACATTCACT
A ATGACGTGGCAGACGGTGATATTTTTATTTTGGATTTCTGY
A CGCGCCGAGGAGTGATATTTTTATTTTGGATTTCTGAY
A CCTATCAGAAATCCAAAATAAAAATATCACCGTGAATGTTTTGGTTCAGTGATGACAGGTACAGAAAAAGGA
A CCTATCAGAAATCCAAAATAAAAATATCACTGTGAATGTTTTGGTTCAGTGATGACAGGTACAGAAAAAGGA
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A ATGACGTGGCAGACCCAGAACTTACCAGGTCTY
A CGCGCCGAGGTCAGAACTTACCAGGTCTGY
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A CAAGCAGACCTGGTAAGTTCTGAGACACATGCTCCAGCCGAGGAATATCTGCCTG
CCCTCGTGGATCGCAGTTCATTACTTCACAGGCAGATATTCCTCGGCTGGAGCATGTGTC[CT]CAGAACTTACCAGGT
CTGCTTGCAGCCCAGGCCTGTGCATCAGTCCCCATCTGTTAAATG ctg22fin6 22
S GCCTTGCTGCCTTTCGGTAAAGGTTTCTCTAAAATGATTTTAAAACTATA
S ATGACGTGGCAGACCGAGATGTATATGACAACTAAGTY
S CGCGCCGAGGTGAGATGTATATGACAACTAAGTGY
S AGATCACTTAGTTGTCATATACATCTCGATAGTTTTAAAATCATTTTAGAGAAACCTTTACCGAAAGGCAGCAAGGCAA
S AGATCACTTAGTTGTCATATACATCTCAATAGTTTTAAAATCATTTTAGAGAAACCTTTACCGAAAGGCAGCAAGGCAA
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TTAGAGAAACCTTTACCGAAAGGCAGCAAGGCAAGAATGCTTG ctg12325 11
A CAGAAGTTTTGGGAAAGGAAGTCTGTGCAAGTCTCTCAT
A CGCGCCGAGGATCCTGTCTCCGTTGTCY
A ATGACGTGGCAGACGTCCTGTCTCCGTTGTY
A TTGTGACAACGGAGACAGGATTGAGAGACTTGCACAGACTTCCTTTCCCAAAACTTCTGCA
A TTGTGACAACGGAGACAGGACTGAGAGACTTGCACAGACTTCCTTTCCCAAAACTTCTGCA
CTAATGGTAGAATTTTAGTCTGCAGAAGTTTTGGGAAAGGAAGTCTGTGCAAGTCTCTCA[AG]TCCTGTCTCCGTTGTC
ACAAAAAAATGTTTACGTTGTTTATTTTCCAAGGCAAGGTAAAC ctg15285 12
A CCTCCTCCCTGCCTGCCTCCCCA
A CGCGCCGAGGTCCTCACTCAATCTGTCTCY
A ATGACGTGGCAGACCCCTCACTCAATCTGTCTY
A AGTGGAGACAGATTGAGTGAGGAGGGGAGGCAGGCAGGGAGGAGGCC
A AGTGGAGACAGATTGAGTGAGGGGGGAGGCAGGCAGGGAGGAGGCC
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CTCCACTCAAGAGGCTGATGGGCAGGTCTCCCTGCTTCTTCAAAT
A TCCTATTTGCAGACCTAGGGGAGGACAATGCCC
A CGCGCCGAGGTGGGCTTTTTGCCTTCY
A ATGACGTGGCAGACAGGGCTTTTTGCCTTCY
A TTGGGAAGGCAAAAAGCCCAGGCATTGTCCTCCCCTAGGTCTGCAAATAGGACA
A TTGGGAAGGCAAAAAGCCCTGGCATTGTCCTCCCCTAGGTCTGCAAATAGGACA
CCTTGAATGTGCTTGAAGCTGTTTTATGTCCTATTTGCAGACCTAGGGGAGGACAATGCC[TA]GGGCTTTTTGCCTTC
CCAAGGTCACAGCCTGAAGACACTCAGAAAGATGTAGTTGGCTCA ctg18709 X
A CGCTGCTGGCGCCGTGGCA
A ATGACGTGGCAGACCTCCTATGACTACCTGGTGY
A CGCGCCGAGGTTCCTATGACTACCTGGTGY
A CGATCACCAGGTAGTCATAGGAGGCCACGGCGCCAGCAGCGGG
A CGATCACCAGGTAGTCATAGGAAGCCACGGCGCCAGCAGCGGG
CATGGCCTGCAGGCAGGAGCCGCAGCCGCAGGGCCCGCCGCCCGCTGCTGGCGCCGTGGC[CT]TCCTATGACTAC
CTGGTGATCGGGGGCGGCTCGGGCGGGCTGGCCAGCGCGCGCAGGGCG ctg16263 1 GSR
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A CGCGCCGAGGTCTTCCCTTGTTAAGTTTAATGGY
A ATGACGTGGCAGACACTTCCCTTGTTAAGTTTAATGY
A TCTCCCATTAAACTTAACAAGGGAAGAAGCTAAAAAAGCGTCAGCCTTGCTTTTTTAGGTTA
A TCTCCCATTAAACTTAACAAGGGAAGTAGCTAAAAAAGCGTCAGCCTTGCTTTTTTAGGTTA
TTAGATTCTGCACTGCCTTAAGACTTAACCTAAAAAAGCAAGGCTGACGCTTTTTTAGCT[TA]CTTCCCTTGTTAAGTTT
AATGGGAGAATATCCACAGAAAAAATGGAAACCTGTGTGTTTA ctg13980 1
A GCCCAGGAGGAGGCTGGGCCT

FIGURE 129D

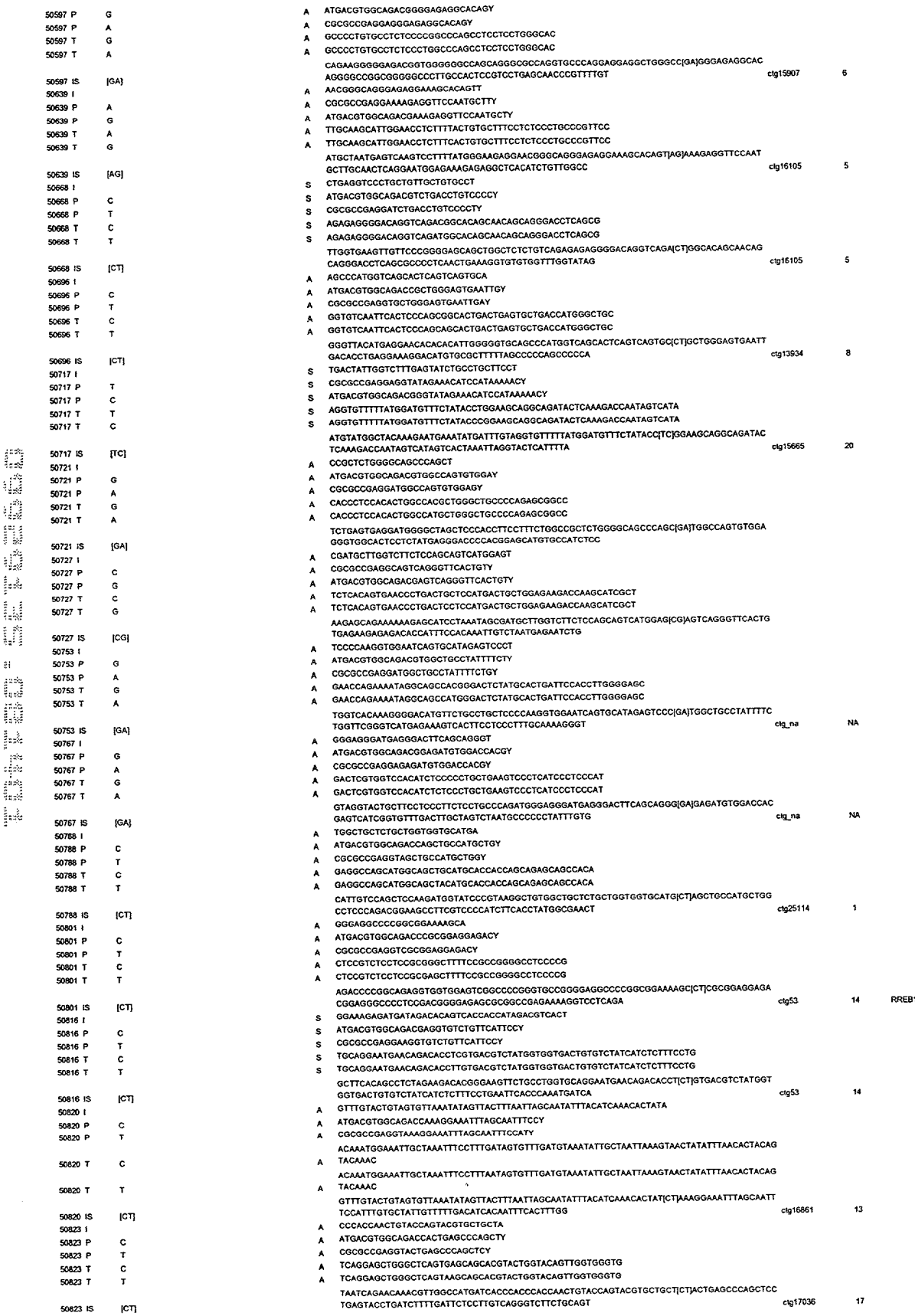

50597 P G
50597 P A
50597 T G
50597 T A
50597 IS [GA]
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50639 P A
50639 P G
50639 T A
50639 T G
50639 IS [AG]
50668 I
50668 P C
50668 P T
50668 T C
50668 T T
50668 IS [CT]
50696 I
50696 P C
50696 P T
50696 T C
50696 T T
50696 IS [CT]
50717 I
50717 P T
50717 P C
50717 T T
50717 T C
50717 IS [TC]
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50721 P G
50721 P A
50721 T G
50721 T A
50721 IS [GA]
50727 I
50727 P C
50727 P G
50727 T C
50727 T G
50727 IS [CG]
50753 I
50753 P G
50753 P A
50753 T G
50753 T A
50753 IS [GA]
50767 I
50767 P G
50767 P A
50767 T G
50767 T A
50767 IS [GA]
50788 I
50788 P C
50788 P T
50788 T C
50788 T T
50788 IS [CT]
50801 I
50801 P C
50801 P T
50801 T C
50801 T T
50801 IS [CT]
50816 I
50816 P C
50816 P T
50816 T C
50816 T T
50816 IS [CT]
50820 I
50820 P C
50820 P T
50820 T C
50820 T T
50820 IS [CT]
50823 I
50823 P C
50823 P T
50823 T C
50823 T T
50823 IS [CT]
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A CGCGCCGAGGAGGGAGAGGCACAGY
A GCCCCTGTGCCTCTCCCCGGCCCAGCCTCCTCCTGGGCAC
A GCCCCTGTGCCTCTCCCTGGCCCAGCCTCCTCCTGGGCAC
CAGAAGGGGGAGACGGTGGGGGGCCAGCAGGGCGCCAGGTGCCCAGGAGGAGGCTGGGCC[GA]GGGAGAGGCAC
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A AACGGGCAGGGAGAGGAAAGCACAGTT
A CGCGCCGAGGAAAAGAGGTTCCAATGCTTY
A ATGACGTGGCAGACGAAAGAGGTTCCAATGCTY
A TTGCAAGCATTGGAACCTCTTTTACTGTGCTTTCCTCTCCCTGCCCGTTCC
A TTGCAAGCATTGGAACCTCTTTCACTGTGCTTTCCTCTCCCTGCCCGTTCC
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S CTGAGGTCCCTGCTGTTGCTGTGCCT
S ATGACGTGGCAGACGTCTGACCTGTCCCCY
S CGCGCCGAGGATCTGACCTGTCCCCTY
S AGAGAGGGGACAGGTCAGACGGCACAGCAACAGCAGGGACCTCAGCG
S AGAGAGGGGACAGGTCAGATGGCACAGCAACAGCAGGGACCTCAGCG
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A AGCCCATGGTCAGCACTCAGTCAGTGCA
A ATGACGTGGCAGACCGCTGGGAGTGAATTGY
A CGCGCCGAGGTGCTGGGAGTGAATTGAY
A GGTGTCAATTCACTCCCAGCGGCACTGACTGAGTGCTGACCATGGGCTGC
A GGTGTCAATTCACTCCCAGCAGCACTGACTGAGTGCTGACCATGGGCTGC
GGGTTACATGAGGAACACACACATTGGGGGTGCAGCCCATGGTCAGCACTCAGTCAGTGC[CT]GCTGGGAGTGAATT
GACACCTGAGGAAAGGACATGTGCGCTTTTTAGCCCCCAGCCCCCA ctg13934 8
S TGACTATTGGTCTTTGAGTATCTGCCTGCTTCCT
S CGCGCCGAGGAGGTATAGAAACATCCATAAAAACY
S ATGACGTGGCAGACGGGTATAGAAACATCCATAAAAACY
S AGGTGTTTTTATGGATGTTTCTATACCTGGAAGCAGGCAGATACTCAAAGACCAATAGTCATA
S AGGTGTTTTTATGGATGTTTCTATACCCGGAAGCAGGCAGATACTCAAAGACCAATAGTCATA
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TCAAAGACCAATAGTCATAGTCACTAAATTAGGTACTCATTTTA ctg15665 20
A CCGCTCTGGGGCAGCCCAGCT
A ATGACGTGGCAGACGTGGCCAGTGTGGAY
A CGCGCCGAGGATGGCCAGTGTGGAGY
A CACCCTCCACACTGGCCACGCTGGGCTGCCCCAGAGCGGCC
A CACCCTCCACACTGGCCATGCTGGGCTGCCCCAGAGCGGCC
TCTGAGTGAGGATGGGGCTAGCTCCCACCTTCCTTTCTGGCCGCTCTGGGGCAGCCCAGC[GA]TGGCCAGTGTGGA
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A CGATGCTTGGTCTTCTCCAGCAGTCATGGAGT
A CGCGCCGAGGCAGTCAGGGTTCACTGTY
A ATGACGTGGCAGACGAGTCAGGGTTCACTGTY
A TCTCACAGTGAACCCTGACTGCTCCATGACTGCTGGAGAAGACCAAGCATCGCT
A TCTCACAGTGAACCCTGACTCCTCCATGACTGCTGGAGAAGACCAAGCATCGCT
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A TCCCCAAGGTGGAATCAGTGCATAGAGTCCCT
A ATGACGTGGCAGACGTGGCTGCCTATTTTCTGY
A CGCGCCGAGGATGGCTGCCTATTTTCTGY
A GAACCAGAAAATAGGCAGCCACGGGACTCTATGCACTGATTCCACCTTGGGGAGC
A GAACCAGAAAATAGGCAGCCATGGGACTCTATGCACTGATTCCACCTTGGGGAGC
TGGTCACAAAGGGGACATGTTCTGCCTGCTCCCCAAGGTGGAATCAGTGCATAGAGTCCC[GA]TGGCTGCCTATTTTC
TGGTTCGGGTCATGAGAAAGTCACTTCCTCCCTTTGCAAAAGGGT ctg_na NA
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A ATGACGTGGCAGACGGAGATGTGGACCACGY
A CGCGCCGAGGAGAGATGTGGACCACGY
A GACTCGTGGTCCACATCTCCCCCTGCTGAAGTCCCTCATCCCTCCCAT
A GACTCGTGGTCCACATCTCTCCCTGCTGAAGTCCCTCATCCCTCCCAT
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A ATGACGTGGCAGACCAGCTGCCATGCTGY
A CGCGCCGAGGTAGCTGCCATGCTGGY
A GAGGCCAGCATGGCAGCTGCATGCACCACCAGCAGAGCAGCCACA
A GAGGCCAGCATGGCAGCTACATGCACCACCAGCAGAGCAGCCACA
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CCTCCCAGACGGAAGCCTTCGTCCCCATCTTCACCTATGGCGAACT ctg25114 1
A GGGAGGCCCCGGCGGAAAAGCA
A ATGACGTGGCAGACCCGCGGAGGAGACY
A CGCGCCGAGGTCGCGGAGGAGACY
A CTCCGTCTCCTCCGCGGGCTTTTCCGCCGGGGCCTCCCCG
A CTCCGTCTCCTCCGCGAGCTTTTCCGCCGGGGCCTCCCCG
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S ATGACGTGGCAGACGAGGTGTCTGTTCATTCCY
S CGCGCCGAGGAAGGTGTCTGTTCATTCCY
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S TGCAGGAATGAACAGACACCTTGTGACGTCTATGGTGGTGACTGTGTCTATCATCTCTTTCCTG
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GGTGACTGTGTCTATCATCTCTTTCCTGAATTCACCCAAATGATCA ctg53 14
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A ATGACGTGGCAGACCACTGAGCCCAGCTY
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A TCAGGAGCTGGGCTCAGTAAGCAGCACGTACTGGTACAGTTGGTGGGTG
TAATCAGAACAAACGTTGGCCATGATCACCCACCCACCAACTGTACCAGTACGTGCTGCT[CT]ACTGAGCCCAGCTCC
TGAGTACCTGATCTTTTGATTCTCCTTGTCAGGGTCTTCTGCAGT ctg17036 17

FIGURE 129D

50839 I		A	GCGGCGGCGTGCTGCGGT			
50839 P	A	A	CGCGCCGAGGACTCTGTGGCGGGY			
50839 P	G	A	ATGACGTGGCAGACGCTCTGTGGCGGGY			
50839 T	A	A	CGCTCCCGCCACAGAGTCCGCAGCACGCCGCCGCCG			
50839 T	G	A	CGCTCCCGCCACAGAGCCCGCAGCACGCCGCCGCCG			
50839 IS	[AG]		CTGGCAAGACGCGCGCGTGGGTACTCACGTGACCTAGGCTGCGGCGGCGGCGTGCTGCGG[AG]CTCTGTGGCGGG AGCGAGGCCGACGGGCGGGGCCGCGCGGCCGCGTGACGCGAAGCGTTC			
50868 I		A	GAGCTGTGGCTGCTTGGGCACAGTT			
50868 P	C	A	CGCGCCGAGGCATTACTGTTTATTCCACTGTGY			
50868 P	G	A	ATGACGTGGCAGACGATTACTGTTTATTCCACTGTGY			
50868 T	C	A	GCAGCACAGTGGAATAAACAGTAATGACTGTGCCCAAGCAGCCACAGCTCCT			
50868 T	G	A	GCAGCACAGTGGAATAAACAGTAATCACTGTGCCCAAGCAGCCACAGCTCCT			
50868 IS	[CG]		AAAAACAGACATTTCACTTGCTGTCAGGTAGTGAAGGAGCTGTGGCTGCTTGGGCACAGT[CG]ATTACTGTTTATTCC ACTGTGCTGCACATCTTGAAGCTGTAAAGATATAAGAAGTCTCGC	ctg16306	4	
50873 I		S	CGGCAGGAACTCTCTTTAAATAGCTGGTGCACGT			
50873 P	T	S	CGCGCCGAGGAAAGGCTGTTCAGATATAAAATCY			
50873 P	C	S	ATGACGTGGCAGACGAAGGCTGTTCAGATATAAAATCY			
50873 T	T	S	TTCTGATTTTATATCTGAACAGCCTTTCGTGCACCAGCTATTTAAAGAGAGTTCCTGCCGCT			
50873 T	C	S	TTCTGATTTTATATCTGAACAGCCTTCCGTGCACCAGCTATTTAAAGAGAGTTCCTGCCGCT			
50873 IS	[TC]		GGGACTCATCTGAATAGCAGCTCAAGTTAGTTTGTTCTGATTTTATATCTGAACAGCCTT[TC]CGTGCACCAGCTATTT AAAGAGAGTTCCTGCCGCTATCAGATCGCCACCACCCTGCTGGG	ctg19247	7	
50885 I		S	TCTACAGGATGCTGGCATCAAGAATATCTAGAGGTGTCCT			
50885 P	C	S	ATGACGTGGCAGACGCTACACCTAATGGATACCY			
50885 P	T	S	CGCGCCGAGGACTACACCTAATGGATACCAY			
50885 T	C	S	TTCTTGGTATCCATTAGGTGTAGCGGACACCTCTAGATATTCTTGATGCCAGCATCCTGTAGACC			
50885 T	T	S	TTCTTGGTATCCATTAGGTGTAGTGGACACCTCTAGATATTCTTGATGCCAGCATCCTGTAGACC			
50885 IS	[CT]		TCGTAAAATTTCATCTAAAACAAAAAATTCACATCTGTTCTTGGTATCCATTAGGTGTAG[CT]GGACACCTCTAGATATT CTTGATGCCAGCATCCTGTAGACCCGCCATCTCCTTTCCCAGG	ctg14493	3	
50933 I		A	CTGCAGTCCTGAGCCTGTTGGGGGTAA			
50933 P	C	A	ATGACGTGGCAGACCACAGTAAAGGAGAGGGTY			
50933 P	T	A	CGCGCCGAGGTACAGTAAAGGAGAGGGTGY			
50933 T	C	A	TCACCACCCTCTCCTTTACTGTGTACCCCCAACAGGCTCAGGACTGCAGGT			
50933 T	T	A	TCACCACCCTCTCCTTTACTGTATACCCCCAACAGGCTCAGGACTGCAGGT			
50933 IS	[CT]		CGCTCAGTGATTCCTGGGCAGTGGAGATGTCTACCTGCAGTCCTGAGCCTGTTGGGGGTA[CT]ACAGTAAAGGAGAG GGTGGTGAGGAGGAAGGGTGGGGTGAGGCCTAGGAGGAGAGAGGTA	ctg15972	16	
50936 I		S	CAGTGAGGCATGGCTGGAATGGCCAGA			
50936 P	G	S	ATGACGTGGCAGACCGCTCCTGGCAGTAY			
50936 P	A	S	CGCGCCGAGGTGCTCCTGGCAGTAGY			
50936 T	G	S	ACCGCTACTGCCAGGAGCGCTGGCCATTCCAGCCATGCCTCACTGGG			
50936 T	A	S	ACCGCTACTGCCAGGAGCACTGGCCATTCCAGCCATGCCTCACTGGG			
50936 IS	[GA]		ATGCATATGCTTCCCAAAGAAATTTTTACAAGAGAAACTTAAACCGCTACTGCCAGGAGC[GA]CTGGCCATTCCAGCCA TGCCTCACTGGGAGGCCCTGAGCATTCTAGCCGGCGGCTGCACA	ctg15972	16	
50937 I		A	ACCTCCAATACATTCTAGGATGCTCTGTAATTCACTAAGTGTTGATCTGAATAT			
50937 P	G	A	ATGACGTGGCAGACGCATCAACCCTTTATAGAAAGAY			
50937 P	A	A	CGCGCCGAGGACATCAACCCTTTATAGAAAGATY			
50937 T	G	A	CTAAATCTTTCTATAAAGGGTTGATGCTATTCAGATCAACACTTAGTGAATTACAGAGCATCCTAGAATGTATTGGAGG TTT			
50937 T	A	A	CTAAATCTTTCTATAAAGGGTTGATGTTATTCAGATCAACACTTAGTGAATTACAGAGCATCCTAGAATGTATTGGAGG TTT			
50937 IS	[GA]		TTGCAAAACCTCCAATACATTCTAGGATGCTCTGTAATTCACTAAGTGTTGATCTGAATA[GA]CATCAACCCTTTATAGA AAGATTTAGTACAGACTGAAAAATGATTCAAATTCAGTTCTAG	ctg15907	6	
50940 I		A	CCGCGGTGAACGTGCAATCTATCTCATAAATGCATCT			
50940 P	G	A	ATGACGTGGCAGACGCAGTGTTCCACAAATCAY			
50940 P	C	A	CGCGCCGAGGCCAGTGTTCCACAAATCAY			
50940 T	G	A	TGGGTGATTTGTGGAACACTGCGATGCATTTATGAGATAGATTGCACGTTCACCGCGGCG			
50940 T	C	A	TGGGTGATTTGTGGAACACTGGGATGCATTTATGAGATAGATTGCACGTTCACCGCGGCG			
50940 IS	[GC]		AACCCGATCTGGTTTCTTTGAGCGCCGCGGTGAACGTGCAATCTATCTCATAAATGCATC[GC]CAGTGTTCCACAAAT CACCCACGTTCATCCCTTGAGACGTCTTTAACTCGGGGCTTAGAG	ctg15907	6	
50942 I		A	GGAAATGGGCAGGTGGGTGGGTCTATGTT			
50942 P	A	A	CGCGCCGAGGAAGCTGGCTTTAGACTTCY			
50942 P	G	A	ATGACGTGGCAGACGAGCTGGCTTTAGACTTCY			
50942 T	A	A	GATTGAAGTCTAAAGCCAGCTTACATAGACCCACCCACCTGCCCATTTCCTG			
50942 T	G	A	GATTGAAGTCTAAAGCCAGCTCACATAGACCCACCCACCTGCCCATTTCCTG			
50942 IS	[AG]		TGGTGGTGGCTGGGACACAGGAGGCCACTGCAGGAAATGGGCAGGTGGGTGGGTCTATGT[AG]AGCTGGCTTTAGA CTTCAATCCACAAGCATTTGCAGCTCAACTACTCAGCGTCTTATCTT	ctg15907	6	
50966 I		S	AGTAGATCAAACCAAGCCTCCTGGAGACCCGA			
50966 P	G	S	ATGACGTGGCAGACCTTAGGAGTGGATGGGCY			
50966 P	A	S	CGCGCCGAGGTTTAGGAGTGGATGGGCY			
50966 T	G	S	AGGGGCCCATCCACTCCTAAGCGGGTCTCCAGGAGGCTTGGTTTGATCTACTAG			
50966 T	A	S	AGGGGCCCATCCACTCCTAAACGGGTCTCCAGGAGGCTTGGTTTGATCTACTAG			
50966 IS	[GA]		AGATACAGATGTGATCTCAGATACGTGAAGCTGCATACAGAGGGGCCCATCCACTCCTAA[GA]CGGGTCTCCAGGAG GCTTGGTTTGATCTACTAGATTTGGTGCCTCTTAAAGGGAAGCAAT	ctg15907	6	
50971 I		S	TGGTAACATCAAGACATATCACCAGAAAGAGGGAAGCCTTA			
50971 P	A	S	CGCGCCGAGGTCTCCAGAAATTAAATCCTGTGY			
50971 P	G	S	ATGACGTGGCAGACCCTCCAGAAATTAAATCCTGTY			
50971 T	A	S	TCCCCACAGGATTTAATTTCTGGAGAAAGGCTTCCCTCTTTCTGGTGATATGTCTTGATGTTACCAAA			
50971 T	G	S	TCCCCACAGGATTTAATTTCTGGAGGAAGGCTTCCCTCTTTCTGGTGATATGTCTTGATGTTACCAAA			
50971 IS	[AG]		TCAAGCAGTGATGTTTAATTATATTTTTCACATTTTCCCCACAGGATTTAATTTCTGGAG[AG]AAGGCTTCCCTCTTTCT GGTGATATGTCTTGATGTTACCAAACCATTTCCTATATTTAAT	ctg15907	6	
50977 I		S	CCCACAGCCTGGCTGCAGCCACT			
50977 P	C	S	ATGACGTGGCAGACGCTCACTCTGATAAGGACY			
50977 P	T	S	CGCGCCGAGGACTCACTCTGATAAGGACGY			
50977 T	C	S	ACGTCGTCCTTATCAGAGTGAGCGTGGCTGCAGCCAGGCTGTGGGTG			
50977 T	T	S	ACGTCGTCCTTATCAGAGTGAGTGTGGCTGCAGCCAGGCTGTGGGTG			
50977 IS	[CT]		CATTGGCACCGGCACGGATGTGGCCATCGAGGCAGCCGACGTCGTCCTTATCAGAGTGAG[CT]GTGGCTGCAGCCA GGCTGTGGGTGCTGGGAGGGGCAATGGGCAGACCCCTTCCTCACTGTG	ctg13446	1	
50985 I		A	CCCACCATCCTCTCTGCTCTGGCAAGGT			
50985 P	C	A	CGCGCCGAGGCAGGCGAAGACCGGY			
50985 P	G	A	ATGACGTGGCAGACGAGGCGAAGACCGGY			
50985 T	C	A	GGCTCCGGTCTTCGCCTGCCTTGCCAGAGCAGAGAGGATGGTGGGGG			
50985 T	G	A	GGCTCCGGTCTTCGCCTCCCTTGCCAGAGCAGAGAGGATGGTGGGGG			
50985 IS	[CG]		CCTCCCCGCCGGTGCCCCGCCCACAGCACGGCCCCCACCATCCTCTCTGCTCTGGCAAGG[CG]AGGCGAAGACCGG AGCCTTATCTCCGGACTCCCCCACCCCTAATCTCCCGCCGCGCTGCT	ctg13446	1	
51003 I		A	GGCTGTGCTCGCTCTCAGTGGCATGT			
51003 P	G	A	ATGACGTGGCAGACGTGGCCTTGCCAGAY			
51003 P	A	A	CGCGCCGAGGATGGCCTTGCCAGAY			
51003 T	G	A	AGACTCTGGCAAGGCCACCATGCCACTGAGAGCGAGCACAGCCTC			

FIGURE 129D

51003 T	A	A	AGACTCTGGCAAGGCCATCATGCCACTGAGAGCGAGCACAGCCTC				
51003 IS	[GA]		TGGGGACGCGGGGGAGCCCAGGTCTGCTGGGGAGAGGCTGTGCTCGCTCTCAGTGGCATG[GA]TGGCCTTGCCAG AGTCTGGACTCACCAACACTCTGCAGTGCTAGGCTCCCAACCACATCT	ctg13414	X	NAB1
51019 I		S	TGGTCTCTGAGCACCGCCCCTTGTA				
51019 P	A	S	CGCGCCGAGGTGACTCCCCAAGAATTGAY				
51019 P	G	S	ATGACGTGGCAGACCGACTCCCCAAGAATTGY				
51019 T	A	S	TCGTTCAATTCTTGGGGAGTCAACAAGGGGCGGTGCTCAGAGACCAAC				
51019 T	G	S	TCGTTCAATTCTTGGGGAGTCGACAAGGGGCGGTGCTCAGAGACCAAC				
51019 IS	[AG]		TCCCGGAGTCTTTCCAGCAAATCTGAAGCTTCGTTCCTCTCGTTCAATTCTTGGGGAGTC[AG]ACAAGGGGCGGTGCT CAGAGACCAACTGGCAGGCCCCCTCCTTGTCCGTTCCCTCCCCA	ctg13414	X	
51030 I		S	CTGTCGTTGTTCTTGGGGTGGCCACGA				
51030 P	G	S	ATGACGTGGCAGACCAATCTGCAGAAAGCTTTCY				
51030 P	A	S	CGCGCCGAGGTAATCTGCAGAAAGCTTTCTY				
51030 T	G	S	GAAGAGAAAGCTTTCTGCAGATTGCGTGGCCACCCCAAGAACAACGACAGTC				
51030 T	A	S	GAAGAGAAAGCTTTCTGCAGATTACGTGGCCACCCCAAGAACAACGACAGTC				
51030 IS	[GA]		CCAGGTTGAGCCTCTCCCTGGCAAAGGTTTGGACTGAGAAGAGAAAGCTTTCTGCAGATT[GA]CGTGGCCACCCCAA GAACAACGACAGTCTATAGCTTGGGATACTGGTCTTTCTCCACTGC	ctg13414	X	
51038 I		A	CAGAGCTCCAGAGCTCACACTCTGCTCTCAT				
51038 P	G	A	ATGACGTGGCAGACGAACTAGATTAAGCAGCGAGY				
51038 P	A	A	CGCGCCGAGGAAACTAGATTAAGCAGCGAGY				
51038 T	G	A	CCTTCTCGCTGCTTAATCTAGTTCTGAGAGCAGAGTGTGAGCTCTGGAGCTCTGAG				
51038 T	A	A	CCTTCTCGCTGCTTAATCTAGTTTTGAGAGCAGAGTGTGAGCTCTGGAGCTCTGAG				
51038 IS	[GA]		CACAGGCTGAGTCACACGCTTCACATGGCTCAGAGCTCCAGAGCTCACACTCTGCTCTCA[GA]AACTAGATTAAGCAG CGAGAAGGTGTTTCAGGTTTTTCCAACCCTATATGCTACAACTCC	ctg14493	3	
51040 I		S	CCCAGGCAGACAAACCTCATGGTAGGATTCTGAC				
51040 P	A	S	CGCGCCGAGGTTGGTCTGGCCAGTGY				
51040 P	T	S	ATGACGTGGCAGACATGGTCTGGCCAGTGY				
51040 T	A	S	ATAACACTGGCCAGACCAATCAGAATCCTACCATGAGGTTTGTCTGCCTGGGCT				
51040 T	T	S	ATAACACTGGCCAGACCATTCAGAATCCTACCATGAGGTTTGTCTGCCTGGGCT				
51040 IS	[AT]		TCCTCTAGCCCTGGCCACAGTGACCGGGCCTCATGTGGACACATAACACTGGCCAGACCA[AT]TCAGAATCCTACCAT GAGGTTTGTCTGCCTGGGCTGATTGGATAGAGCTCCCTTTCTTCC	ctg13921	8	
51047 I		A	CATGGCAGTGGCTCTCGTTATGTGAACTGAGAAAAAGAT				
51047 P	G	A	ATGACGTGGCAGACGAGTGCTAACTTCTAGGGTY				
51047 P	C	A	CGCGCCGAGGCAGTGCTAACTTCTAGGGTY				
51047 T	G	A	AAAGACCCTAGAAGTTAGCACTCTCTTTTTCTCAGTTCACATAACGAGAGCCACTGCCATGGC				
51047 T	C	A	AAAGACCCTAGAAGTTAGCACTGTCTTTTTCTCAGTTCACATAACGAGAGCCACTGCCATGGC				
51047 IS	[GC]		GGCCTTTGCATTCCGTCTATGCCATGGCAGTGGCTCTCGTTATGTGAACTGAGAAAAAGA[GC]AGTGCTAACTTCTAG GGTCTTTGCCCTGTCTCTCCTCTCTTCTCAAAGCCTGGCAGCAGC	ctg15907	6	
51059 I		A	TCCAGACCTAATGTGGAATAGCTAAACCCAGGGACTA				
51059 P	T	A	CGCGCCGAGGTTGTGGTTTGAGCATGAAY				
51059 P	C	A	ATGACGTGGCAGACCTGTGGTTTGAGCATGAAY				
51059 T	T	A	TATTTTCATGCTCAAACCACAAAGTCCCTGGGTTTAGCTATTCCACATTAGGTCTGGAAG				
51059 T	C	A	TATTTTCATGCTCAAACCACAGAGTCCCTGGGTTTAGCTATTCCACATTAGGTCTGGAAG				
51059 IS	[TC]		ATCTGCTATAGAGTCCCAAAGCCTTCCAGACCTAATGTGGAATAGCTAAACCCAGGGACT[TC]TGTGGTTTGAGCATG AAAATACTGGTTAACTTTCAGTTATTCGGAAAGCATGTTCCTAGA	ctg15907	6	
51069 I		A	GAGAGGCTGGAGCAGGGTCACCCAA				
51069 P	T	A	CGCGCCGAGGTGGACAGAGACCAAGAGY				
51069 P	C	A	ATGACGTGGCAGACCGGACAGAGACCAAGAY				
51069 T	T	A	ACCTCTCTTGGTCTCTGTCCATGGGTGACCCTGCTCCAGCCTCTCAG				
51069 T	C	A	ACCTCTCTTGGTCTCTGTCCGTGGGTGACCCTGCTCCAGCCTCTCAG				
51069 IS	[TC]		AGCAGAGCCAGGGCACCTGCAGGACCAGCATCATCTGAGAGGCTGGAGCAGGGTCACCCA[TC]GGACAGAGACCAA GAGAGGTCCTGCGAAGGCTGGGCACTGCTGTGGGACAGCCAGTCTTC	ctg15907	6	SCTR
51113 I		A	GCAGTTTCCCTGACACCACCGCCAT				
51113 P	A	A	CGCGCCGAGGACCTCCAGCCCAAGY				
51113 P	G	A	ATGACGTGGCAGACGCCTCCAGCCCAAY				
51113 T	A	A	TGTGCTTGGGCTGGAGGTTGGCGGTGGTGTCAGGGAAACTGCAG				
51113 T	G	A	TGTGCTTGGGCTGGAGGCTGGCGGTGGTGTCAGGGAAACTGCAG				
51113 IS	[AG]		GGACGTCCCCACCCACCCCGGGTAGAAGGACCATCTGCAGTTTCCCTGACACCACCGCCA[AG]CCTCCAGCCCAAGC ACAAGGGACCGCATTTTTTTTTTAGGAAGCCAGAGGAAAGACTGGA	ctg15907	6	
51122 I		S	GTCTGCTTCCGCAGACACAGCCTGAGTA				
51122 P	G	S	ATGACGTGGCAGACCTGTTAAAGTTGGTGACAATCY				
51122 P	A	S	CGCGCCGAGGTTGTTAAAGTTGGTGACAATCY				
51122 T	G	S	GGTGGATTGTCACCAACTTTAACAGACTCAGGCTGTGTCTGCGGAAGCAGACTG				
51122 T	A	S	GGTGGATTGTCACCAACTTTAACAAACTCAGGCTGTGTCTGCGGAAGCAGACTG				
51122 IS	[GA]		CAGAGGCCTCATTAATAGCACACATTGAGAGACTGAGGTGGATTGTCACCAACTTTAACA[GA]ACTCAGGCTGTGTCT GCGGAAGCAGACTGACGCAGGGATGTCTTCTGTAACCCAACATGG	ctg15907	6	
51130 I		S	CACGGCCACCCGGCGCAACA				
51130 P	A	S	CGCGCCGAGGTGACTTTCTGCTCTCTGAY				
51130 P	G	S	ATGACGTGGCAGACCGACTTTCTGCTCTCTGY				
51130 T	A	S	AAAGTCAGAGAGCAGAAAGTCAGTTGCGCCGGGTGGCCGTGAT				
51130 T	G	S	AAAGTCAGAGAGCAGAAAGTCGGTTGCGCCGGGTGGCCGTGAT				
51130 IS	[AG]		CAAACATCTCCAAGGTTCAGGCTAGAGTGAGAGCCCACAAAAGTCAGAGAGCAGAAAGTC[AG]GTTGCGCCGGGTGG CCGTGATTTCTCCGACAGGGTTAGAGCAGCTGGAGGTCAGTGTGAT	ctg14747	2	
51132 I		S	CCTGCAGCAAGATGGCGGCGGTT				
51132 P	C	S	ATGACGTGGCAGACGTCAATGTCAGTGGTACTGY				
51132 P	G	S	CGCGCCGAGGCTCAATGTCAGTGGTACTGY				
51132 T	C	S	GCCTCAGTACCACTGACATTGACACCGCCGCCATCTTGCTGCAGGCA				
51132 T	G	S	GCCTCAGTACCACTGACATTGAGACCGCCGCCATCTTGCTGCAGGCA				
51132 IS	[CG]		GGCAGCTACAGCCACTGCCCTTCTCCGCCACAACGTCTGCCTCAGTACCACTGACATTGA[CG]ACCGCCGCCATCTT GCTGCAGGCAAACGCCAGGATGAAAGGACGGATCACCGCAAGGGAC	ctg17042	11	
51146 I		A	ACAGGAAAGGGCCAAGGATCTCTCAGTGAATATAAAACTTACATATATCAAAGT				
51146 P	C	A	CGCGCCGAGGCACCCAGAGGCTTTTTAATY				
51146 P	G	A	ATGACGTGGCAGACGACCCAGAGGCTTTTTAATY				
51146 T	C	A	TCTCATTAAAAAGCCTCTGGGTGCTTTGATATATGTAAGTTTTATATTCACTGAGAGATCCTTGGCCCTTTCCTGTGG				
51146 T	G	A	TCTCATTAAAAAGCCTCTGGGTCCTTTGATATATGTAAGTTTTATATTCACTGAGAGATCCTTGGCCCTTTCCTGTGG				
51146 IS	[CG]		CGCAGCCACAGGAAAGGGCCAAGGATCTCTCAGTGAATATAAAACTTACATATATCAAAG[CG]ACCCAGAGGCTTTTT AATGAGAATGACCTCTGGTTAAAATTAGAGTGAAAGGGAAATAAA	ctg16920	19	
51159 I		S	GCTGTGGGGGCAATTTTCTGCAGGAAGGT				
51159 P	C	S	ATGACGTGGCAGACGAGGGAAGGCAGACCY				
51159 P	T	S	CGCGCCGAGGAAGGGAAGGCAGACCY				
51159 T	C	S	GAGAGGTCTGCCTTCCCTCCCTTCCTGCAGAAAATTGCCCCCACAGCGC				
51159 T	T	S	GAGAGGTCTGCCTTCCCTTCCTTCCTGCAGAAAATTGCCCCCACAGCGC				
51159 IS	[CT]		GCCGGCTGTGTCACTGCAGGGCTGGCACATGGCAGAGATGGGGAGAGGTCTGCCTTCCCT[CT]CCTTCCTGCAGAA AATTGCCCCCACAGCGCCTCCTTTTGGATAAGGCACAAAACACCCTT	ctg15907	6	
51163 I		S	GCCTCCATGAGGGATAAACAGAGCATCTCTGCAAT				
51163 P	C	S	ATGACGTGGCAGACGTCACTCCTGGTGTTTTACY				
51163 P	T	S	CGCGCCGAGGATCACTCCTGGTGTTTTACY				

FIGURE 129D

51163 T	C	S	TCAGGTAAAACACCAGGAGTGACTTGCAGAGATGCTCTGTTTATCCCTCATGGAGGCCC			
51163 T	T	S	TCAGGTAAAACACCAGGAGTGATTTGCAGAGATGCTCTGTTTATCCCTCATGGAGGCCC			
51163 IS	[CT]		TTCTACAACCTAACCCACAGCAAGTGACTCTAGGCAGCTCAGGTAAAACACCAGGAGTGA[CT]TTGCAGAGATGCTCT GTTTATCCCTCATGGAGGCCCGCTAAGAGATCTGTCCATTACCCA	ctg17036	17	
51164 I		S	CCTGAGTTGGAGTGGAAGGCTCAGCTGTA			
51164 P	A	S	CGCGCCGAGGTTTCCTGCTGCCCCY			
51164 P	G	S	ATGACGTGGCAGACCTTCCTGCTGCCCCY			
51164 T	A	S	CAAAGGGGCAGCAGGAAAACAGCTGAGCCTTCCACTCCAACTCAGGTT			
51164 T	G	S	CAAAGGGGCAGCAGGAAGACAGCTGAGCCTTCCAGTCCAACTCAGGTT			
51164 IS	[AG]		ATGACATTTGACTCCAGTCCCACAAGAGGGGTGATGTGTCTGACAAAGGGGCAGCAGGAA[AG]ACAGCTGAGCCTTC CACTCCAACTCAGGTTTCTGAGGTCTCTGTGCAGTTTCTGCGGCAA	ctg17036	17	
51170 I		S	TTGGCTGAGGATGTGTCTAAAAGGAATAATAAATGTGACAA			
51170 P	A	S	CGCGCCGAGGTACAGGGCTTCTCGAGY			
51170 P	G	S	ATGACGTGGCAGACCACAGGGCTTCTCGAY			
51170 T	A	S	ATCACTCGAGAAGCCCTGTATGTCACATTTATTATTCCTTTTAGACACATCCTCAGCCAAGT			
51170 T	G	S	ATCACTCGAGAAGCCCTGTGTGTCACATTTATTATTCCTTTTAGACACATCCTCAGCCAAGT			
51170 IS	[AG]		TAAACTTGTGATTTCTTACTATTGTAATGAAATGGACCTGTATCACTCGAGAAGCCCTGT[AG]TGTCACATTTATTATTC CTTTTAGACACATCCTCAGCCAAGTGTAGTAAATGTCCACACT	ctg15907	6	
51172 I		S	CCAGACCAGCATTTTGCATTGCAGTCAGAGGAAAT			
51172 P	T	S	CGCGCCGAGGAGCATTGCTGCATATTTAAAGY			
51172 P	C	S	ATGACGTGGCAGACGGCATTGCTGCATATTTAAAY			
51172 T	T	S	GTAACTTTAAATATGCAGCAATGCTTTTCCTCTGACTGCAATGCAAAATGCTGGTCTGGGT			
51172 T	C	S	GTAACTTTAAATATGCAGCAATGCCTTTCCTCTGACTGCAATGCAAAATGCTGGTCTGGGT			
51172 IS	[TC]		AATGAGCTGTTAAGATGTTTCCAGAACTGGGGTTTAGTAACTTTAAATATGCAGCAATGC[TC]TTTCCTCTGACTGCAA TGCAAAATGCTGGTCTGGGTGTCCACATTAGCTGAAACCAAATG	ctg13740	5	
51190 I		S	TGGTGCACACGGAACATAGCTGAATAGCACCT			
51190 P	T	S	CGCGCCGAGGACGAAGACTGAAAACAGACY			
51190 P	C	S	ATGACGTGGCAGACGCGAAGACTGAAAACAGAY			
51190 T	T	S	TCAGGTCTGTTTTCAGTCTTCGTGGTGCTATTCAGCTATGTTCCGTGTGCACCACC			
51190 T	C	S	TCAGGTCTGTTTTCAGTCTTCGCGGTGCTATTCAGCTATGTTCCGTGTGCACCACC			
51190 IS	[TC]		AAATTCCAACCTGCCTTCTGTGGGGTGTGATCCCCATGTCAGGTCTGTTTTCAGTCTTCG[TC]GGTGCTATTCAGCTA TGTTCCGTGTGCACCACCCAGTGGCCCGTCTGCGGCGTGGCTGAA	ctg15330	9	LUZP3
51194 I		A	CTGGGGTCCGAAGCTTTGGCTTCCCA			
51194 P	C	A	ATGACGTGGCAGACCGACCCGCAGAGCY			
51194 P	T	A	CGCGCCGAGGTGACCCGCAGAGCY			
51194 T	C	A	AGCGGCTCTGCGGGTCGGGGAAGCCAAAGCTTCGGACCCCAGGC			
51194 T	T	A	AGCGGCTCTGCGGGTCAGGGAAGCCAAAGCTTCGGACCCCAGGC			
51194 IS	[CT]		GGTTCACCCGCATCCTAACTGTGGGCCCCCAGAGCCTGGGGTCCGAAGCTTTGGCTTCCC[CT]GACCCGCAGAGCC GCTTGTACGGTGTTTACTGCTACCGCCAGCACTAGGACCTGGGGCCC	ctg16170	4	
51205 I		S	CTTGAAGACTTCCGTGGGCGGTCAGCATTAAC			
51205 P	A	S	CGCGCCGAGGTCAGAGGCCAAGCTGY			
51205 P	T	S	ATGACGTGGCAGACACAGAGGCCAAGCTGY			
51205 T	A	S	CGCTCAGCTTGGCCTCTGATTAATGCTGACCGCCCACGGAAGTCTTCAAGAG			
51205 T	T	S	CGCTCAGCTTGGCCTCTGTTTAATGCTGACCGCCCACGGAAGTCTTCAAGAG			
51205 IS	[AT]		GGGATTCAAAGAGAGAAAGAACCAGTTTTGGGGATGCTGTGACGCTCAGCTTGGCCTCTG[AT]TTAATGCTGACCGC CCACGGAAGTCTTCAAGAGGGCCATGAGGCCTTATAACCCTGATGC			
51242 I		S	TTGCACAGGAAAAAGCTGGAATTCTACCCTAAAATTTATCAGATACAACAT			
51242 P	C	S	ATGACGTGGCAGACGTGACCTCTAAAAATCCAACAY			
51242 P	T	S	CGCGCCGAGGATGACCTCTAAAAATCCAACAY			
51242 T	C	S	CCCTTGTTGGATTTTTAGAGGTCACTGTTGTATCTGATAAATTTTAGGGTAGAATTCCAGCTTTTTCCTGTGCAAGA			
51242 T	T	S	CCCTTGTTGGATTTTTAGAGGTCATTGTTGTATCTGATAAATTTTAGGGTAGAATTCCAGCTTTTTCCTGTGCAAGA			
51242 IS	[CT]		GGATGATAATGTGGTAATTTACCTTTATACATTTTACCCTTGTTGGATTTTTAGAGGTCA[CT]TGTTGTATCTGATAAAT TTTAGGGTAGAATTCCAGCTTTTTCCTGTGCAAGACCAATATC	ctg53	14	
51256 I		S	AGATATTTTCAAAATCAGAGTATTAGTGGGGGCTGGGC			
51256 P	A	S	CGCGCCGAGGTCTTAGGAATGCAATTGTAAAAGY			
51256 P	C	S	ATGACGTGGCAGACGCTTAGGAATGCAATTGTAAAY			
51256 T	A	S	CTCCCTTTTACAATTGCATTCCTAAGACCCAGCCCCCACTAATACTCTGATTTTGAAAATATCTTA			
51256 T	C	S	CTCCCTTTTACAATTGCATTCCTAAGCCCCAGCCCCCACTAATACTCTGATTTTGAAAATATCTTA			
51256 IS	[AC]		CTATATAATTTTTCTGCCAAGGGAATATCCATCACTCCCTTTTACAATTGCATTCCTAAG[AC]CCCAGCCCCCACTAATA CTCTGATTTTGAAAATATCTTATTCAACAAGCAATGACATTCT	ctg18433	19	
51261 I		S	TTTGGGTAATGTGGTCCCAGCAGTAATTCTGTTGTTGTATGA			
51261 P	A	S	CGCGCCGAGGTTGATGATTTCCTATATGAAAGTACY			
51261 P	G	S	ATGACGTGGCAGACCTGATGATTTCCTATATGAAAGTACY			
51261 T	A	S	ATGTGTACTTTCATATAGGAAATCATCAACATACAACAACAGAATTACTGCTGGGACCACATTACCCAAAAG			
51261 T	G	S	ATGTGTACTTTCATATAGGAAATCATCAGCATACAACAACAGAATTACTGCTGGGACCACATTACCCAAAAG			
51261 IS	[AG]		AGTAATCCCTATGCTAAAATTTATTATCTAAAATGTGTACTTTCATATAGGAAATCATCA[AG]CATACAACAACAGAATTA CTGCTGGGACCACATTACCCAAAAGAAAGAGAAAAATAGCTT	ctg18466	16	
51293 I		A	CTCTAGCTTAACTTGGAACAAATGGCTCAGCTTCTCTCTCA			
51293 P	C	A	ATGACGTGGCAGACCTGGCTTCTCCATCTCTY			
51293 P	T	A	CGCGCCGAGGTTGGCTTCTCCATCTCTAY			
51293 T	C	A	GTTCTAGAGATGGAGAAGCCAGGAGAGAGAAGCTGAGCCATTTGTTCCAAGTTAAGCTAGAGCC			
51293 T	T	A	GTTCTAGAGATGGAGAAGCCAAGAGAGAGAAGCTGAGCCATTTGTTCCAAGTTAAGCTAGAGCC			
51293 IS	[CT]		GTTCTGGATTCCAACCCTGGCTCTAGCTTAACTTGGAACAAATGGCTCAGCTTCTCTCTC[CT]TGGCTTCTCCATCTCT AGAACTGCAGTGAACCATTTGATCACAGAATAGGAAGGAAGGCC	ctg22fin6	22	
51299 I		S	GCCTGGTGGCAAGATTGCAGCTGGTACTT			
51299 P	C	S	ATGACGTGGCAGACGCCCACAGAGTGACTY			
51299 P	T	S	CGCGCCGAGGACCCACAGAGTGACTGY			
51299 T	C	S	GTTCCAGTCACTCTGTGGGCAGTACCAGCTGCAATCTTGCCACCAGGCCC			
51299 T	T	S	GTTCCAGTCACTCTGTGGGTAGTACCAGCTGCAATCTTGCCACCAGGCCC			
51299 IS	[CT]		GAATGTTCCAGAGCCTTCTTCAGCCTGGAAGCTTCTGGCAGGTTCCAGTCACTCTGTGGG[CT]AGTACCAGCTGCAAT CTTGCCACCAGGCCCCACCCACTCTGCACTGCACCACCCCTGGCA	ctg22fin4	22	
51301 I		S	CACCCACCCGGCCCGACCAT			
51301 P	T	S	CGCGCCGAGGAGCGCCACTCCGY			
51301 P	C	S	ATGACGTGGCAGACGGCGCCACTCCGY			
51301 T	T	S	GGGGCGGAGTGGCGCTTGGTCGGGCCGGGTGGGTGCC			
51301 T	C	S	GGGGCGGAGTGGCGCCTGGTCGGGCCGGGTGGGTGCC			
51301 IS	[TC]		ACGCGGTGTGGGGCGGGCGTCCCCGGGGTGGGACGCCCCGTCCACGGGGCGGAGTGGCGC[TC]TGGTCGGGCCG GGTGGGTGCCGGCTTCCGTGGGAGCCAGCCTGGCGTGGGGGCCTCGCA	ctg22fin4	22	
51302 I		S	CAAAGCTGTCATTACTTTCTTGCTGGAAACTTTGAAATATTATTTGTTTCCTGTTTCT			
51302 P	C	S	ATGACGTGGCAGACGAACTTCTGGAGATATACCATCY			
51302 P	T	S	CGCGCCGAGGAAACTTCTGGAGATATACCATCY			
51302 T	C	S	CTGGGATGGTATATCTCCAGAAGTTCGAAACAGGAAACAAATAATATTTCAAAGTTTCCAGCAAGAAAGTAATGACAGC TTTGGA			
51302 T	T	S	CTGGGATGGTATATCTCCAGAAGTTTGAAACAGGAAACAAATAATATTTCAAAGTTTCCAGCAAGAAAGTAATGACAGC TTTGGA			

FIGURE 129D

				ACCTCCCTGTGACACTATTGCCCTTAATCATGGTACTGGGATGGTATATCTCCAGAAGTT[CT]GAAACAGGAAACAAAT			
51302	IS	[CT]		AATATTTCAAAGTTTCCAGCAAGAAAGTAATGACAGCTTTGGAG	ctg22fin4	22	
51778	I		A	AAGGTGTCTGCGGGAGCCGATTTCATCAA			
51778	P	C	A	ATGACGTGGCAGACCCACGCAGCTTTTCTT			
51778	P	T	A	CGCGCCGAGGTCACGCAGCTTTTCTTT			
51778	T	C	A	CCTCAAAGAAAAGCTGCGTGGTGATGAAATCGGCTCCCGCAGACACCTT			
51778	T	T	A	CCTCAAAGAAAAGCTGCGTGATGATGAAATCGGCTCCCGCAGACACCTT			
				AAGGTGTCTGCGGGAGCCGATTTCATCA[CT]CACGCAGCTTTTCTTTGAGGCTGACACATTCTTCCGCTTTGTGAAGG			
51778	IS	[CT]		CATGCACCGACAT	ctg15508	17	MTHFR
51785	I		S	ACAACTACCATTACTTTCGTAGCACTTCGTCGCCCT			
51785	P	C	S	ATGACGTGGCAGACGCCAGAAGCTGCTG			
51785	P	T	S	CGCGCCGAGGACCAGAAGCTGCTGAA			
51785	T	C	S	CCTATTCAGCAGCTTCTGGCGGGCGACGAAGTGCTACGAAAGTAATGGTAGTTGTAA			
51785	T	T	S	CCTATTCAGCAGCTTCTGGTGGGCGACGAAGTGCTACGAAAGTAATGGTAGTTGTAA			
				TGGGCGACGAAGTGCTACGAAAGTAATGGTAGTTAAATATGCCTATTCAGCAGCTTCTGG[CT]GGGCGACGAAGTGC			
51785	IS	[CT]		TACGAAAGTAATGGTAGTTGTAACTGACGGTGAATCACATGATGGT			
51801	I		S	GGTAAATCACTGATTATGAGTATAGGTTCAGCAGTGGTTTAGAAA			
51801	P	A	S	CGCGCCGAGGTCCTCAGACCCCGAY			
51801	P	G	S	ATGACGTGGCAGACCCCTCAGACCCCGY			
51801	T	A	S	CCCCTCGGGGTCTGAGGATTCTAAACCACTGCTGAACCTATACTCATAATCAGTGATTTACCAA			
51801	T	G	S	CCCCTCGGGGTCTGAGGGTTCTAAACCACTGCTGAACCTATACTCATAATCAGTGATTTACCAA			
				GGTGGTAAACTATCAGTCAGCTTCAGGGGCAGCTGTCTGCTACCCCCTCGGGGTCTGAGG[AG]TTCTAAACCACTGC			
51801	IS	[AG]		TGAACCTATACTCATAATCAGTGATTTACCAAAAATGATTTTGAAT	ctg15907	6	
51838	I		A	CAAAGGGTGAGTGTGTGAGGTCCCTCCCT			
51838	P	C	A	CGCGCCGAGGCCAAGTCTAAGCCCTCCY			
51838	P	G	A	ATGACGTGGCAGACGCAAGTCTAAGCCCTCY			
51838	T	C	A	GGGAGGAGGGCTTAGACTTGGGGGAGGGACCTCACACACTCACCCTTTGGC			
51838	T	G	A	GGGAGGAGGGCTTAGACTTGCGGGAGGGACCTCACACACTCACCCTTTGGC			
				ATGGCCTCCCTGGGCTGCCTGGTGAGAAGGGCCAAAGGGTGAGTGTGTGAGGTCCCTCCC[CG]CAAGTCTAAGCCC			
51838	IS	[CG]		TCCTCCCAATATTCAAGCCCCCCCAACTTCTCCCTCAGTATCAGAGT	ctg22fin4	22	
51851	I		A	GCAAAAGGTGAAGACTTTACAGTGACTAGTAAGCCAGCCT			
51851	P	G	A	ATGACGTGGCAGACGGACTTTCAGAAGATCAGAAGY			
51851	P	A	A	CGCGCCGAGGAGACTTTCAGAAGATCAGAAGY			
51851	T	G	A	CAGTCTTCTGATCTTCTGAAAGTCCGGCTGGCTTACTAGTCACTGTAAAGTCTTCACCTTTTGCAT			
51851	T	A	A	CAGTCTTCTGATCTTCTGAAAGTCTGGCTGGCTTACTAGTCACTGTAAAGTCTTCACCTTTTGCAT			
				AAGGAACCTGAAGACACATATGCAAAAGGTGAAGACTTTACAGTGACTAGTAAGCCAGCC[GA]GACTTTCAGAAGATC			
51851	IS	[GA]		AGAAGACTGCCTTTAGTATCATTTCTGAAGGCTGTGAGATATTGA	ctg15064	7	
51914	I		S	CATTGTTGTAACACCATTTGTTTTGATACAGGATATCGTTTTTTTTTTC			
51914	P	A	S	CGCGCCGAGGTAAGGTGCTTTTTCCCATATY			
51914	P	T	S	ATGACGTGGCAGACAAAGGTGCTTTTTCCCATY			
51914	T	A	S	AGGCATATGGGAAAAAGCACCTTAAAAAAAAAAACGATATCCTGTATCAAAACAAATGGTGTTACAACAATGCA			
51914	T	T	S	AGGCATATGGGAAAAAGCACCTTTAAAAAAAAAACGATATCCTGTATCAAAACAAATGGTGTTACAACAATGCA			
				TTGCTATGACTTGACGTGATGCATTAAAACAAATTTTAGGCATATGGGAAAAAGCACCTT[AT]AAAAAAAAAACGATATC			
51914	IS	[AT]		C*GTATCAAAACAAATGGTGTTACAACAATGCACAAAGTTAAA	ctg25099	7	
51938	I		A	CGGATCAAGACGACATACGCCCTCTCCTCAAAT			
51938	P	G	A	ATGACGTGGCAGACGTCTGTGTGCCTGGTY			
51938	P	C	A	CGCGCCGAGGCTCTGTGTGCCTGGTY			
51938	T	G	A	GTCTACCAGGCACACAGACTTTGAGGAGAGGGCGTATGTCGTCTTGATCCGCA			
51938	T	C	A	GTCTACCAGGCACACAGAGTTTGAGGAGAGGGCGTATGTCGTCTTGATCCGCA			
				CAAGGGTGGCCGACCCCCATCATTGATGCGGATCAAGACGACATACGCCCTCTCCTCAAA[GC]TCTGTGTGCCTGGT			
51938	IS	[GC]		AGACAGTCGGGCATGAGTACCTGCCAGGACAGGAAAAAAAAATGAA			
51951	I		S	GCCTGAGGCTCATGCAGGAGGAAGAGCT			
51951	P	T	S	CGCGCCGAGGACTTGCTCTGGACTGGY			
51951	P	G	S	ATGACGTGGCAGACCCTTGCTCTGGACTGGY			
51951	T	T	S	GCTTCCAGTCCAGAGCAAGTGCTCTTCCTCCTGCATGAGCCTCAGGCCG			
51951	T	G	S	GCTTCCAGTCCAGAGCAAGGGCTCTTCCTCCTGCATGAGCCTCAGGCCG			
				CACAAAACCCCGCAAGGCATGTCCATGCAGGCCTGGGGCTGGCTTCCAGTCCAGAGCAAG[TG]GCTCTTCCTCCTGC			
51951	IS	[TG]		ATGAGCCTCAGGCCGGCCCGGCCGCCCTCCCTGCGTCTTTCACTCT	ctg16170	4	
51988	I		A	AGGCAAACCCAGAGATTCAGAGCTTCCAATCTCCTTAAATAA			
51988	P	C	A	ATGACGTGGCAGACCTGGAGTTCACAAGAGGAY			
51988	P	T	A	CGCGCCGAGGTTGGAGTTCACAAGAGGAY			
51988	T	C	A	TTTTTCCTCTTGTGAACTCCAGTATTTAAGGAGATTGGAAGCTCTGAATCTCTGGGTTTGCCTGG			
51988	T	T	A	TTTTTCCTCTTGTGAACTCCAATATTTAAGGAGATTGGAAGCTCTGAATCTCTGGGTTTGCCTGG			
				CAAAGTACATACTTCTTCCAGGCAAACCCAGAGATTCAGAGCTTCCAATCTCCTTAAATA[CT]TGGAGTTCACAAGAGG			
51988	IS	[CT]		AAAAAACCATGGTGTAAGTTTTAAGTGACTGACAGCAGAAAACC			
52008	I		A	GTCTCTGCTGATGTTGCTGGCATACCTGCTT			
52008	P	G	A	ATGACGTGGCAGACGTGGACACCCAGTAAAACY			
52008	P	A	A	CGCGCCGAGGATGGACACCCAGTAAAACY			
52008	T	G	A	CACTGTTTTACTGGGTGTCCACAGCAGGTATGCCAGCAACATCAGCAGAGACCA			
52008	T	A	A	CACTGTTTTACTGGGTGTCCATAGCAGGTATGCCAGCAACATCAGCAGAGACCA			
				CTTCCTACATGGACTCTGAGGGGCTCTCTGGTCTCTGCTGATGTTGCTGGCATACCTGCT[GA]TGGACACCCAGTAAA			
52008	IS	[GA]		ACAGTGGCTCCACACAATCATGGGAAAAAAGACGAATATGACCAT	ctg15581	4	
52038	I		S	GAAGAAGCGGTAATGCGCCCGGAGCT			
52038	P	C	S	ATGACGTGGCAGACGACCGGGGAGCGY			
52038	P	T	S	CGCGCCGAGGAACCGGGGAGCGY			
52038	T	C	S	CGCTCGCTCCCCGGTCGCTCCGGGCGCATTACCGCTTCTTCTT			
52038	T	T	S	CGCTCGCTCCCCGGTTGCTCCGGGCGCATTACCGCTTCTTCTT			
				TCCATCCAACCATCCATCCATCCATTCATTCTTTCTTGACGCACTCGCTCGCTCCCCGGT[CT]GCTCCGGGCGCATTA			
52038	IS	[CT]		CCGCTTCTTCTTCTGCTTGAGGGACTTCCTGCGTTTCAGGATCAT	ctg15581	4	
52080	I		S	GGGTCAAATTCTCATCCTGTTGTACAGGATGGT			
52080	P	T	S	CGCGCCGAGGAAATCCGACTCAGGATTTGY			
52080	P	C	S	ATGACGTGGCAGACGAATCCGACTCAGGATTTGY			
52080	T	T	S	TTTACAAATCCTGAGTCGGATTTCCATCCTGTACAACAGGATGAGAATTTGACCCAT			
52080	T	C	S	TTTACAAATCCTGAGTCGGATTCCCATCCTGTACAACAGGATGAGAATTTGACCCAT			
				AGAAAATGTCTCGTGAAAATAAATCAAATGCAGCAGTATTTACAAATCCTGAGTCGGATT[TC]CCATCCTGTACAACAG			
52080	IS	[TC]		GATGAGAATTTGACCCATTATTTACACCAGTAAGCTGAGAATGA	ctg16170	4	
52088	I		A	GAGCTTATGAAACCAGGAAGCACCAGCAGTCTTCT			
52088	P	G	A	ATGACGTGGCAGACGGATCTCTTTCTCTGGAGGY			
52088	P	A	A	CGCGCCGAGGAGATCTCTTTCTCTGGAGGY			
52088	T	G	A	TGGGCCTCCAGAGAAAGAGATCCGAAGACTGCTGGTGCTTCCTGGTTTCATAAGCTCAG			
52088	T	A	A	TGGGCCTCCAGAGAAAGAGATCTGAAGACTGCTGGTGCTTCCTGGTTTCATAAGCTCAG			
				CTTCCAACGAATTCAGACTTCTTACTGAGCTTATGAAACCAGGAAGCACCAGCAGTCTTC[GA]GATCTCTTTCTCTGGA			
52088	IS	[GA]		GGCCCAAATTCCCCTAACTGAGCAGCTCAGGCTGCCGTGGCTCA	ctg14391	11	
52103	I		S	GCGAATTCCATAGTGGGCTCTGGCTTTTCTTGAATAGAA			
52103	P	A	S	CGCGCCGAGGTATCACAAGGTTGCTTATTATCAY			
52103	P	G	S	ATGACGTGGCAGACCATCACAAGGTTGCTTATTATCY			

FIGURE 129D

52103 T	A	S	CTTTTGATAATAAGCAACCTTGTGATATCTATTCAAGAAAAGCCAGAGCCCACTATGGAATTCGCAG			
52103 T	G	S	CTTTTGATAATAAGCAACCTTGTGATGTCTATTCAAGAAAAGCCAGAGCCCACTATGGAATTCGCAG			
52103 IS	[AG]		GTGACATTTAAATGGTTACATGATTTTAATTATTCTTTTGATAATAAGCAACCTTGTGAT[AG]TCTATTCAAGAAAAGCCA GAGCCCACTATGGAATTCGCAGTTGAATAAGAGCTTTGTTCC			RSU1
52105 I		S	CCTTCGCAGTGTGGCCTGCCCTGA			
52105 P	A	S	CGCGCCGAGGTAGAGCTCTTGTCCCACY			
52105 P	G	S	ATGACGTGGCAGACCAGAGCTCTTGTCCCAY			
52105 T	A	S	CTGAGTGGGACAAGAGCTCTACAGGGCAGGCCACACTGCGAAGGAA			
52105 T	G	S	CTGAGTGGGACAAGAGCTCTGCAGGGCAGGCCACACTGCGAAGGAA			
52105 IS	[AG]		CCTCCTGAAAGGACTTTAGTCTTTGGAGCTGTCACCTGAGCTGAGTGGGACAAGAGCTCT[AG]CAGGGCAGGCCACA CTGCGAAGGAAGGAGGCAACACGGGCAAGGGCTGCCTGCTGCCCGC	ctg16114	X	
52113 I		S	CCTGTTATAGTGAGGGTCCCTGGGGCTGAGT			
52113 P	G	S	CGCGCCGAGGCCTGTGGGTCAGTGGY			
52113 P	C	S	ATGACGTGGCAGACGCTGTGGGTCAGTGGY			
52113 T	G	S	CATTCCACTGACCCACAGGCTCAGCCCCAGGGACCCTCACTATAACAGGTC			
52113 T	C	S	CATTCCACTGACCCACAGCCTCAGCCCCAGGGACCCTCACTATAACAGGTC			
52113 IS	[GC]		TTTTTTGGGCCATCTGCTATATCAAGACCCTCCTCACAGCATCATTCCACTGACCCACAG[GC]CTCAGCCCCAGGGAC CCTCACTATAACAGGTCTTCACTATGCATGCGAACTCACAAAAAC	ctg13446	1	
52114 I		S	CCCCGGGACCAAAGAGGAACCCCT			
52114 P	C	S	ATGACGTGGCAGACGGGACAGCTTCCACAY			
52114 P	T	S	CGCGCCGAGGAGGACAGCTTCCACATATY			
52114 T	C	S	AGGCATATGTGGAAGCTGTCCCGGGGTTCCTCTTTGGTCCCGGGGCC			
52114 T	T	S	AGGCATATGTGGAAGCTGTCCTGGGGTTCCTCTTTGGTCCCGGGGCC			
52114 IS	[CT]		ACCAGCCCCCAGAAACATGCAAGTTGCAGGAGTCCCGAGAGGCATATGTGGAAGCTGTCC[CT]GGGGTTCCTCTTTG GTCCCGGGGCCACACACCTGCCTGTAGAGGTCAGGTTGGAGAGCAG	ctg21fin5	21	
52120 I		A	GGAAAGACAAACGTGTTTCATAAAATTCGTTGTTGATGGTATTGATTGAAACTT			
52120 P	A	A	CGCGCCGAGGATCTGAGCCATGTAATCAAAAY			
52120 P	G	A	ATGACGTGGCAGACGTCTGAGCCATGTAATCAAY			
52120 T	A	A	TATTTTTTGATTACATGGCTCAGATAGTTTCAATCAATACCATCAACAACGAATTTTATGAAACACGTTTGTCTTTCCTG			
52120 T	G	A	TATTTTTTGATTACATGGCTCAGACAGTTTCAATCAATACCATCAACAACGAATTTTATGAAACACGTTTGTCTTTCCTG			
52120 IS	[AG]		GTAGACAGGAAAGACAAACGTGTTTCATAAAATTCGTTGTTGATGGTATTGATTGAAACT[AG]TCTGAGCCATGTAATC AAAAAATAAAAGTTTTCTGCATCTTGCTTGTTAGCAAAGTCTGT	ctg12325	11	
52135 I		S	CAAATCAGATGAGGGATGTCAGCAATCTTTTCCTT			
52135 P	T	S	CGCGCCGAGGAGTCAGTTTTTGCATATTTTAAAGY			
52135 P	C	S	ATGACGTGGCAGACGGTCAGTTTTTGCATATTTTAAAGY			
52135 T	T	S	ACTGCTTTAAAATATGCAAAAACTGACTAGGAAAAGATTGCTGACATCCCTCATCTGATTTGCT			
52135 T	C	S	ACTGCTTTAAAATATGCAAAAACTGACCAGGAAAAGATTGCTGACATCCCTCATCTGATTTGCT			
52135 IS	[TC]		TTTTTCAGAGCTAAAGGAAGCTTCCATAATAGCACTGCTTTAAAATATGCAAAAACTGAC[TC]AGGAAAAGATTGCTGA CATCCCTCATCTGATTTGCTTATTTCAAAGTGAAACACATCAGC	ctg13740	5	
52136 I		S	CTCATAACCATCTGGAGTTAGTGCAGACCCCATAAGTTAAAGAT			
52136 P	C	S	ATGACGTGGCAGACGTATGGTCTCCAGCAAGAY			
52136 P	T	S	CGCGCCGAGGATATGGTCTCCAGCAAGAY			
52136 T	C	S	ACCATCTTGCTGGAGACCATACTCTTTAACTTATGGGGTCTGCACTAACTCCAGATGGTTATGAGAA			
52136 T	T	S	ACCATCTTGCTGGAGACCATATTCTTTAACTTATGGGGTCTGCACTAACTCCAGATGGTTATGAGAA			
52136 IS	[CT]		GAAGCTCAGGGATTTGCAGCCTCTGAGTATGAAGCGAGGACCATCTTGCTGGAGACCATA[CT]TCTTTAACTTATGGG GTCTGCACTAACTCCAGATGGTTATGAGAACTGAATTGCAGTGTA	ctg14708	2	
52163 I		A	CACTCTCTCTCCCTTTTCCAAATCATGCCCAAGGAATTAA			
52163 P	T	A	CGCGCCGAGGTTGAAAATGAGGTAACAATAGGY			
52163 P	C	A	ATGACGTGGCAGACCTGAAAATGAGGTAACAATAGGY			
52163 T	T	A	TTGCCCTATTGTTACCTCATTTTCAATAATTCCTTGGGCATGATTTGGAAAAGGGAGAGAGAGTGAT			
52163 T	C	A	TTGCCCTATTGTTACCTCATTTTCAGTAATTCCTTGGGCATGATTTGGAAAAGGGAGAGAGAGTGAT			
52163 IS	[TC]		CCATGCTATGGAATTATATATCACTCTCTCTCCCTTTTCCAAATCATGCCCAAGGAATTA[TC]TGAAAATGAGGTAACAA TAGGGCAAAAATGTTAACTCATTCCATCTTCACAGATAGTTCC	ctg15665	20	
52177 I		A	TGAAGGCACTGCGTAAGGATGAGCTGGGT			
52177 P	G	A	ATGACGTGGCAGACGGCAGGGAGGCCY			
52177 P	A	A	CGCGCCGAGGAGCAGGGAGGCCAY			
52177 T	G	A	ATGGTGGCCTCCCTGCCCCCAGCTCATCCTTACGCAGTGCCTTCAAA			
52177 T	A	A	ATGGTGGCCTCCCTGCTCCCAGCTCATCCTTACGCAGTGCCTTCAAA			
52177 IS	[GA]		AGACTAAGCAGCACCTTTGAAGACACTCAATTTGAAGGCACTGCGTAAGGATGAGCTGGG[GA]GCAGGGAGGCCACC ATGTGGAGCTGGATGTCTGATTGCGGGCACCTCACGTTGCCTGCTC			
52186 I		A	TCACATGAGTGCTGGATGGGGCTGAGCT			
52186 P	A	A	CGCGCCGAGGAAGTGACAGTTGTCTCTTTCY			
52186 P	G	A	ATGACGTGGCAGACGAGTGACAGTTGTCTCTTTCY			
52186 T	A	A	GTAGGAAAGAGACAACTGTCACTTGCTCAGCCCCATCCAGCACTCATGTGACC			
52186 T	G	A	GTAGGAAAGAGACAACTGTCACTCGCTCAGCCCCATCCAGCACTCATGTGACC			
52186 IS	[AG]		TTCCCTCAGGAGGATATCATAGCAGCTGTCAGGTCACATGAGTGCTGGATGGGGCTGAGC[AG]AGTGACAGTTGTCT CTTTCCTACGTCTAGGAGAAGCCATGCCAGTCACTAAGAAACCCGG	ctg16339	X	
52204 I		A	ACTGTGTTACTGGAATGTGCAGGGTTACTTCAA			
52204 P	T	A	CGCGCCGAGGTGGTTTCCCTAAGGGCY			
52204 P	C	A	ATGACGTGGCAGACCGGTTTCCCTAAGGGCY			
52204 T	T	A	AGACGCCCTTAGGGAAACCATGAAGTAACCCTGCACATTCCAGTAACACAGTTA			
52204 T	C	A	AGACGCCCTTAGGGAAACCGTGAAGTAACCCTGCACATTCCAGTAACACAGTTA			
52204 IS	[TC]		TTCCTAGTTAGGCTCTTGTTTTGTCATAACTGTGTTACTGGAATGTGCAGGGTTACTTCA[TC]GGTTTCCCTAAGGGCG TCTTAAAAGAAAAAGGGGAAAGGATACCGAAGTAAAAGAAAGCA	ctg17403	17	
52216 I		S	GAACAGAAAGATGAAGGCTTCCTCCTCAGAGAACCCT			
52216 P	C	S	ATGACGTGGCAGACGTGGATGACAGAATACATGAY			
52216 P	T	S	CGCGCCGAGGATGGATGACAGAATACATGAGY			
52216 T	C	S	GCACCTCATGTATTCTGTCATCCACGGGTTCTCTGAGGAGGAAGCCTTCATCTTTCTGTTCTT			
52216 T	T	S	GCACCTCATGTATTCTGTCATCCATGGGTTCTCTGAGGAGGAAGCCTTCATCTTTCTGTTCTT			
52216 IS	[CT]		GTCCACGCAAGTGTTTCTTTAAGCTCTTGCCGAATAGCACCTCATGTATTCTGTCATCCA[CT]GGGTTCTCTGAGGAG GAAGCCTTCATCTTTCTGTTCTTCTCCACATCCACAGAGTGAGCT	ctg22fin3	22	
52220 I		A	GCACGGAGCCGTTCTTTCTTTCTCTTAGACATCTGCT			
52220 P	A	A	CGCGCCGAGGATGGTGGTGACCTCATAGY			
52220 P	G	A	ATGACGTGGCAGACGTGGTGGTGACCTCAY			
52220 T	A	A	AATTCTATGAGGTCACCACCATGCAGATGTCTAAGAGAAAGAAAGAACGGCTCCGTGCAG			
52220 T	G	A	AATTCTATGAGGTCACCACCACGCAGATGTCTAAGAGAAAGAAAGAACGGCTCCGTGCAG			
52220 IS	[AG]		ATTCAGTTGCAGTGGCCTGGATCTGCACGGAGCCGTTCTTTCTTTCTCTTAGACATCTGC[AG]TGGTGGTGACCTCAT AGAATTCTAAGAAAAAAGGGGCTTTATGTAGGAATTCCATAGAGT	ctg15907	6	
52241 I		A	GGCGGGCCGCAGGGGACAC			
52241 P	G	A	ATGACGTGGCAGACGAAGGTTAATTATTGCCCAGAY			
52241 P	T	A	CGCGCCGAGGTAAGGTTAATTATTGCCCAGAY			

FIGURE 129D

52241 T	G	A	CTTGTCTGGGCAATAATTAACCTTCTGTCCCCTGCGGCCCGCCAG				
52241 T	T	A	CTTGTCTGGGCAATAATTAACCTTATGTCCCCTGCGGCCCGCCAG				
52241 IS	[GT]		TTCTAGCATTCAAGCTGGCCTGCAGCTGGACGCCCCTGCCCTGGCGGGCCGCAGGGGACA[GT]AAGGTTAATTATTG CCCAGACAAGGGCTGTTTGTTTGAAGTTGTTCTAAGTCCTGGTGTC	ctg17042	11		
52245 I		S	TCAATACTCAAAGGGGGCTGGGAGGAACAGTTTT				
52245 P	C	S	ATGACGTGGCAGACGTCTCCTAGGGCATGAY				
52245 P	T	S	CGCGCCGAGGATCTCCTAGGGCATGACY				
52245 T	C	S	CTATGTCATGCCCTAGGAGACAAACTGTTCCTCCCAGCCCCCTTTGAGTATTGAGC				
52245 T	T	S	CTATGTCATGCCCTAGGAGATAAACTGTTCCTCCCAGCCCCCTTTGAGTATTGAGC				
52245 IS	[CT]		CCTTCCCAGTTGTATCACTCTTATAAAAAGACTGTCCAGTCTATGTCATGCCCTAGGAGA[CT]AAACTGTTCCTCCCAG CCCCCTTTGAGTATTGAGCAGAAGAATCAAATTATTAAATACGT	ctg14932	16		
52262 I		A	TGTGCAGAATGTCTGGACAGACTTTAAGTTAGGATCTGAATGGC				
52262 P	A	A	CGCGCCGAGGACAGAAGAGAGAATATCAGATAATAAY				
52262 P	T	A	ATGACGTGGCAGACTCAGAAGAGAGAATATCAGATAATAAAY				
52262 T	A	A	ATCTTTTATTATCTGATATTCTCTCTTCTGTCCATTCAGATCCTAACTTAAAGTCTGTCCAGACATTCTGCACAAA				
52262 T	T	A	ATCTTTTATTATCTGATATTCTCTCTTCTGACCATTCAGATCCTAACTTAAAGTCTGTCCAGACATTCTGCACAAA				
52262 IS	[AT]		GCAATTAAAGGAATATTTGTGCAGAATGTCTGGACAGACTTTAAGTTAGGATCTGAATGG[AT]CAGAAGAGAGAATATC AGATAATAAAAGATAATAAACGAAAATTTTTTTGGGTATCATGG	ctg13657	1		
52281 I		A	TGCATCAGGGGCTCCGGACCTCCT				
52281 P	G	A	ATGACGTGGCAGACGAGAACCGCAGCGY				
52281 P	A	A	CGCGCCGAGGAAGAACCGCAGCGGY				
52281 T	G	A	GCCCCCGCTGCGGTTCTCGGAGGTCCGGAGCCCCTGATGCAGT				
52281 T	A	A	GCCCCCGCTGCGGTTCTTGGAGGTCCGGAGCCCCTGATGCAGT				
52281 IS	[GA]		GGGCTGGTGGAAATAGGCATTCAGCCAGGCTGTGCACTGCATCAGGGGCTCCGGACCTCC[GA]AGAACCGCAGCGG GGGCTGGGACCTCCACGGCACTGCAAAAGTGAGAACAGGGGCTTAGT	ctg16105	5		
52325 I		A	GTTTGTGAACTGGCAAACTTCCCCTGGTGGA				
52325 P	C	A	ATGACGTGGCAGACCTGTCTTGGGGATCTCAY				
52325 P	T	A	CGCGCCGAGGTTGTCTTGGGGATCTCAY				
52325 T	C	A	TCTGTGAGATCCCCAAGACAGCCACCAGGGGAAGTTTGCCAGTTCACAAACGG				
52325 T	T	A	TCTGTGAGATCCCCAAGACAACCACCAGGGGAAGTTTGCCAGTTCACAAACGG				
52325 IS	[CT]		CAAGCTGAGGGAAGGAATAACAGAAAAGCCGTTTGTGAACTGGCAAACTTCCCCTGGTGG[CT]TGTCTTGGGGATCT CACAGAAGCTCCAGCGTGCCAGCCCCGAGATGGGCAGACCAGCCAT	ctg15422	X		
52328 I		A	GCAAAAGCAAAGGGTCTTCTGTGACCACAATATCT				
52328 P	A	A	CGCGCCGAGGATCATCCATATGCCTTTTCAY				
52328 P	G	A	ATGACGTGGCAGACGTCATCCATATGCCTTTTCAY				
52328 T	A	A	TATGTGAAAAGGCATATGGATGATGATATTGTGGTCACAGAAGACCCTTTGCTTTTGCTT				
52328 T	G	A	TATGTGAAAAGGCATATGGATGACGATATTGTGGTCACAGAAGACCCTTTGCTTTTGCTT				
52328 IS	[AG]		AACAGGGTTGGAACTGACTTCTTTAAGCAAAAGCAAAGGGTCTTCTGTGACCACAATATC[AG]TCATCCATATGCCTTT TCACATAGGATGATGTGTTTTTTGTCACTCCATGGGGCCTGGTC	ctg22fin4	22		
52350 I		S	GACCTGTGGGGCCTCGGCTGAGC				
52350 P	T	S	CGCGCCGAGGACAGAGAGTAGGAGTGAGY				
52350 P	A	S	ATGACGTGGCAGACTCAGAGAGTAGGAGTGAGY				
52350 T	T	S	CTGCCTCACTCCTACTCTCTGTCTCAGCCGAGGCCCCACAGGTCCC				
52350 T	A	S	CTGCCTCACTCCTACTCTCTGACTCAGCCGAGGCCCCACAGGTCCC				
52350 IS	[TA]		CCAAGCAGAGGAGGAGCTCTTTCTCAGGGCCTTGAATCACTGCCTCACTCCTACTCTCTG[TA]CTCAGCCGAGGCCC CACAGGTCCCTCTGGAGAGCAATCCTGAAAGCCAGATTTCATGTGT	ctg3461	17		
52378 I		S	TCTGAGAACGGGGTTGTCACCCAGGAGTT				
52378 P	G	S	CGCGCCGAGGCAGTGAAGGTCTGGCCY				
52378 P	C	S	ATGACGTGGCAGACGAGTGAAGGTCTGGCCY				
52378 T	G	S	TGCTGGCCAGACCTTCACTGACTCCTGGGTGACAACCCCGTTCTCAGATA				
52378 T	C	S	TGCTGGCCAGACCTTCACTCACTCCTGGGTGACAACCCCGTTCTCAGATA				
52378 IS	[GC]		TTGATGGATCTCCTAACTTCTCTGCACCCCAGAGCCCTCAGTGCTGGCCAGACCTTCACT[GC]ACTCCTGGGTGACAA CCCCGTTCTCAGATAGTGGGTCCCACAGGCTGGCCTGTGGCGCCC	ctg19247	7		
52379 I		A	CCCTCCCTGTGGTTCCCCATTGCACAT				
52379 P	A	A	CGCGCCGAGGAGAAGCCCATTTGCCY				
52379 P	G	A	ATGACGTGGCAGACGGAAGCCCATTTGCCY				
52379 T	A	A	GCCTGGCAAATGGGCTTCTTGTGCAATGGGGAACCACAGGGAGGGGC				
52379 T	G	A	GCCTGGCAAATGGGCTTCCTGTGCAATGGGGAACCACAGGGAGGGGC				
52379 IS	[AG]		TTAGAGCTGTTTCTTTGAGGTACATTTAAGAGGCCCCTCCCTGTGGTTCCCCATTGCACA[AG]GAAGCCCATTTGCCA GGCAATACCTTGGGCAAGCAAGCCACTGTGCAAAATTGCATTGGC	MULTIPLE	18		
52386 I		S	TGATTTGCTTGTCTACGGAGAGTTCTACGTAAATGTGT				
52386 P	T	S	CGCGCCGAGGAACTAAACAGCTTTATGCTTACY				
52386 P	G	S	ATGACGTGGCAGACCACTAAACAGCTTTATGCTTACY				
52386 T	T	S	CCCGGTAAGCATAAAGCTGTTTAGTTCACATTTACGTAGAACTCTCCGTAGACAAGCAAATCATA				
52386 T	G	S	CCCGGTAAGCATAAAGCTGTTTAGTGCACATTTACGTAGAACTCTCCGTAGACAAGCAAATCATA				
52386 IS	[TG]		AACATCATTCAAGAGCTAAATCTTGAGATTTTGCCCCCGGTAAGCATAAAGCTGTTTAGT[TG]CACATTTACGTAGAAC TCTCCGTAGACAAGCAAATCATATTTTTTGTTTGTTTTTCTTAT	ctg3454	17		
52475 I		A	CTTGACTAAAGGTACTTTCTGTATGATTAAAGACAAAAAATCATGTGTTTATTTATCAA				
52475 P	T	A	CGCGCCGAGGTTGGTTTGCAGATAGTCCY				
52475 P	C	A	ATGACGTGGCAGACCTGGTTTGCAGATAGTCCY				
52475 T	T	A	TTTGGGACTATCTGCAAACCAATGATAAATAAACACATGATTTTTTGTCTTTAATCATACAGAAAGTACCTTTAGTCAAG GT				
52475 T	C	A	TTTGGGACTATCTGCAAACCAGTGATAAATAAACACATGATTTTTTGTCTTTAATCATACAGAAAGTACCTTTAGTCAAG GT				
52475 IS	[TC]		ACCTTGACTAAAGGTACTTTCTGTATGATTAAAGACAAAAAATCATGTGTTTATTTATCA[TC]TGGTTTGCAGATAGTCC CAAAGTGTCCTAGGTAATTGATGTTTATACCAGTCCAGTCTCG	ctg832	11		
52484 I		A	GCCCTCTCCTAGCTCCCACTGCACCA				
52484 P	C	A	ATGACGTGGCAGACCTTCCCCTCCACATCCY				
52484 P	T	A	CGCGCCGAGGTTTCCCCTCCACATCCY				
52484 T	C	A	GCAGGGATGTGGAGGGGAAGGGTGCAGTGGGAGCTAGGAGAGGGCTG				
52484 T	T	A	GCAGGGATGTGGAGGGGAAAGGTGCAGTGGGAGCTAGGAGAGGGCTG				
52484 IS	[CT]		GGGTTGGGAGCTCTCCCCGCCCCCTTTCCCTCACAGCCCTCTCCTAGCTCCCACTGCACC[CT]TTCCCCTCCACATC CCTGCAGCTGGACCCAAGCCCAGGCAGCGACAGCCCCTCCCATATG	ctg22fin3	22		
52486 I		S	GGGAGATAATAGAGGACATGGAGGCCACGGTA				
52486 P	G	S	ATGACGTGGCAGACCTTGCCTAGGAGGATCTTY				
52486 P	A	S	CGCGCCGAGGTTTGCCTAGGAGGATCTTY				
52486 T	G	S	ATGCAAGATCCTCCTAGGCAAGACCGTGGCCTCCATGTCCTCTATTATCTCCCTC				
52486 T	A	S	ATGCAAGATCCTCCTAGGCAAAACCGTGGCCTCCATGTCCTCTATTATCTCCCTC				
52486 IS	[GA]		TACAGTCTCCTCTGTGCACACTCTATCTCCCCAGCCAGGATGCAAGATCCTCCTAGGCAA[GA]ACCGTGGCCTCCATG TCCTCTATTATCTCCCTCCCCCTACAGCCCCGGCACCTGACTGAC	ctg15907	6		
52508 I		A	GGTCACATCTCTCAGCCAAGTCTAGAAGCTCTGGT				
52508 P	C	A	CGCGCCGAGGCTAGAGGAGAGGAAGCGY				
52508 P	G	A	ATGACGTGGCAGACGTAGAGGAGAGGAAGCGY				
52508 T	C	A	TGCACGCTTCCTCTCCTCTAGCCAGAGCTTCTAGACTTGGCTGAGAGATGTGACCCG				
52508 T	G	A	TGCACGCTTCCTCTCCTCTACCCAGAGCTTCTAGACTTGGCTGAGAGATGTGACCCG				
52508 IS	[CG]		CCAGGGCCCTCCGTGAGCCAGGACCGGGTCACATCTCTCAGCCAAGTCTAGAAGCTCTGG[CG]TAGAGGAGAGGAA GCGTGCAGAGGGTCCTCTGCCAAAGCTCCCTGCCTGGCCCGAGCCCG	ctg15907	6		

FIGURE 129D

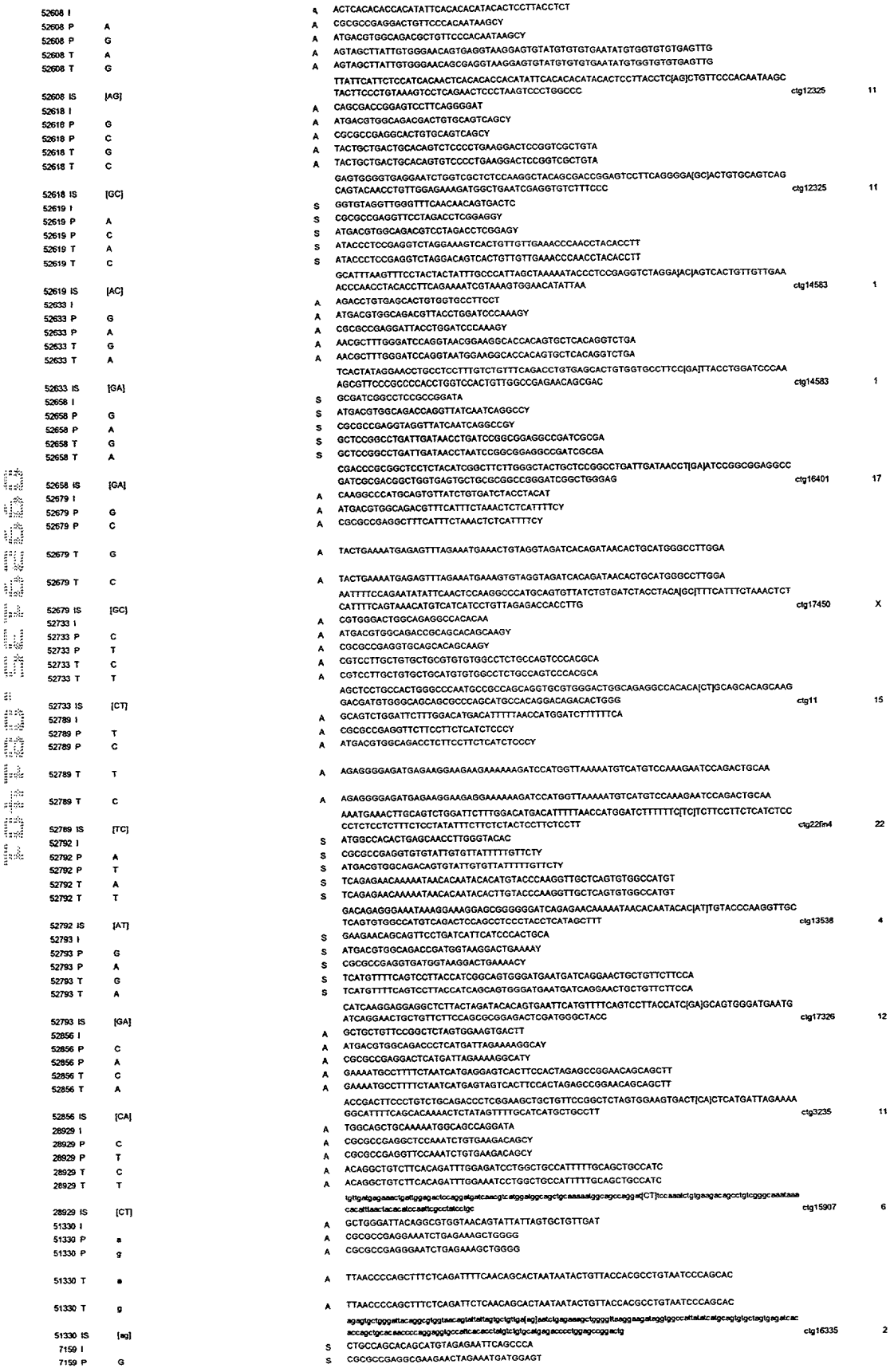


FIGURE 129D

7159 P	A	S	CGCGCCGAGGTGAAGAACTAGAAATGATGGAGTGY			
7159 T	G	S	AGGACACTCCATCATTTCTAGTTCTTCGGGGCTGAATTCTCTACATGCTGTGCTGGCAGCC			
7159 T	A	S	AGGACACTCCATCATTTCTAGTTCTTCAGGGCTGAATTCTCTACATGCTGTGCTGGCAGCC			
7159 IS	[GA]		TGTGCTTGTGCTAAAGCCTTGTTAGGACACTCCATCATTTCTAGTTCTTC[GA]GGGCTGAATTCTCTACATGCTGTGCT GGCAGCCCCTCACTATGGTGCCTT	ctg17944	8	
7234 I		A	AGGAGTGACAGAGCAGTGAGCCAAAACCCCA			
7234 P	T	A	CGCGCCGAGGTACCCCTGGAAAAGCTCA			
7234 P	C	A	CGCGCCGAGGCACCCCTGGAAAAGCTC			
7234 T	T	A	AACATGAGCTTTTCCAGGGGTAGGGGTTTTGGCTCACTGCTCTGTCACTCCTGC			
7234 T	C	A	AACATGAGCTTTTCCAGGGGTGGGGGTTTTGGCTCACTGCTCTGTCACTCCTGC			
7234 IS	[TC]		TGCCAGGCACACTCCCATGCAGGAGTGACAGAGCAGTGAGCCAAAACCCC[TC]ACCCCTGGAAAAGCTCATGTTTTG AGACGCCCACCCAGGGAGGCAAGCAA	ctg15907	6	
7506 I		S	GTGTGGGCGGGGAGACTTCAACCACCC			
7506 P	A	S	CGCGCCGAGGTTGAAAGATTTCAGAACCTGGGY			
7506 P	T	S	CGCGCCGAGGATGAAAGATTTCAGAACCTGGGY			
7506 T	A	S	GCTACCCAGGTTCTGAAATCTTTCAAGGTGGTTGAAGTCTCCCCGCCCACACCC			
7506 T	T	S	GCTACCCAGGTTCTGAAATCTTTCATGGTGGTTGAAGTCTCCCCGCCCACACCC			
7506 IS	[AT]		TTCATTCTGGTTGAAGTCTCCCCCCGCTACCCAGGTTCTGAAATCTTTCA[AT]GGTGGTTGAAGTCTCCCCGCCCACA CCCAGGTTCTGAAATCTTTCATTGT	ctg22fin4	22	
37641 I		A	TGGGGCCACGAGGGACATGACCCA			
37641 P	C	A	CGCGCCGAGGCGTCCAGCAGGGCY			
37641 P	T	A	CGCGCCGAGGTGTCCAGCAGGGCY			
37641 T	C	A	GGAGGCCCTGCTGGACGGGGTCATGTCCCTCGTGGCCCCACC			
37641 T	T	A	GGAGGCCCTGCTGGACAGGGTCATGTCCCTCGTGGCCCCACC			
37641 IS	[CT]		GAGACACTTTGGATTGGGACTGCAGGGTGGGGCCACGAGGGACATGACCC[CT]GTCCAGCAGGGCCTCCTGCTTGG CCCCACAGGTACAACTTGGGAGGACCA			
37654 I		A	CCTGCTTGAGGGGATATTTGTGTCTGTCCCTCATACCT			
37654 P	G	A	CGCGCCGAGGGGCCACACAAACCTCC			
37654 P	A	A	CGCGCCGAGGAGCCACACAAACCTCCT			
37654 T	G	A	GCTGAGGAGGTTTGTGTGGCCGGTATGAGGGACAGACACAAATATCCCCTCAAGCAGGCA			
37654 T	A	A	GCTGAGGAGGTTTGTGTGGCTGGTATGAGGGACAGACACAAATATCCCCTCAAGCAGGCA			
37654 IS	[GA]		catggctcagttgcctgctgaggggatatttgtgtctgtccctcatacc[GA]gccacacaaacctcctcagcctggaccacatgcacgggtgactcctagat	ctg13206	14	
45287 I		A	TGAGACAAATCTGAGAAACAAATGCGGTCCGAAAAGA			
45287 P	C	A	CGCGCCGAGGCGTGTGATTCAGTAAGAGAGATTT			
45287 P	T	A	CGCGCCGAGGTGTGTGATTCAGTAAGAGAGATTTTAA			
45287 T	C	A	TTTTTTAAAATCTCTCTTACTGAATCACACGCTTTTCGGACCGCATTTGTTTCTCAGATTTGTCTCATT			
45287 T	T	A	TTTTTTAAAATCTCTCTTACTGAATCACACACTTTTCGGACCGCATTTGTTTCTCAGATTTGTCTCATT			
45287 IS	[CT]		AAGCATATTTTTAATGAGACAAATCTGAGAAACAAATGCGGTCCGAAAAG[CT]GTGTGATTCAGTAAGAGAGATTTTAA AAAAACCAAAAAACCATACCTTCT	ctg13206	14	
45344 I		A	CCCAGAGCCCCCGGGGCACA			
45344 P	T	A	CGCGCCGAGGTGCAGAACAATTCTGGAGAG			
45344 P	C	A	CGCGCCGAGGCGCAGAACAATTCTGGAGAG			
45344 T	T	A	CAGACTCTCCAGAATTGTTCTGCAGTGCCCCGGGGGCTCTGGGCT			
45344 T	C	A	CAGACTCTCCAGAATTGTTCTGCGGTGCCCCGGGGGCTCTGGGCT			
45344 IS	[TC]		TCCCTGTGGGACAGGACCAAGGAGCACGGAGCCCAGAGCCCCCGGGGCAC[TC]GCAGAACAATTCTGGAGAGTCTG TCCACCCTGGCTTTCCGCTACACAGGC	ctg14824	1	
45372 I		A	TGGGCTTCACCAAGGTTTTGGCTGAAGCCTAGTAAATTAT			
45372 P	G	A	CGCGCCGAGGGCCAGCCCTTAGCTAATAACY			
45372 P	C	A	CGCGCCGAGGCCCAGCCCTTAGCTAATAACY			
45372 T	G	A	CACTGTTATTAGCTAAGGGCTGGCTAATTTACTAGGCTTCAGCCAAAACCTTGGTGAAGCCCATA			
45372 T	C	A	CACTGTTATTAGCTAAGGGCTGGGTAATTTACTAGGCTTCAGCCAAAACCTTGGTGAAGCCCATA			
45372 IS	[GC]		CAGCACAGCACAGCTGGATGCTGGAGAAACTATGGGCTTCACCAAGGTTTTGGCTGAAGCCTAGTAAATTA[GC]CCAG CCCTTAGCTAATAACAGTGATAACTGGCCTGCCAGTTTCGGGGATCTGATGCCCTACATTAACTCACAAGACCCAAAT GCAGTTTAAGTCCTCTTTAACCATTGGGTGAAACTTCAACATTTTCAGCTCA			
45373 I		S	CTCTTCCTTTCTATGTCTAATAATTTTTTATCAGATGTCAGACATTATACT			
45373 P	C	S	CGCGCCGAGGGTTTTGTATTACTGAGGGCTTG			
45373 P	T	S	CGCGCCGAGGATTTTGTATTACTGAGGGCTTGG			
45373 T	C	S	AAACCCAAGCCCTCAGTAATACAAAACGTATAATGTCTGACATCTGATAAAAAATTATTAGACATAGAAAGGAAGAG			
45373 T	T	S	AAACCCAAGCCCTCAGTAATACAAAATGTATAATGTCTGACATCTGATAAAAAATTATTAGACATAGAAAGGAAGAG			
45373 IS	[CT]		CCTTCCAAAGGAAAAAAAAAAATGAAACCCAAGCCCTCAGTAATACAAAA[CT]GTATAATGTCTGACATCTGATAAAAAA TTATTAGACATAGAAAGGAAGAG	ctg16335	2	
45398 I		A	CCTCCCCTCTCCCCCTACCAGCTCTTTT			
45398 P	A	A	CGCGCCGAGGAGTTTCCAGTAGTCTTTTTGTCTGY			
45398 P	G	A	CGCGCCGAGGGGTTTCCAGTAGTCTTTTTGTCTY			
45398 T	A	A	ATGACAGACAAAAAGACTACTGGAAACTAAAGAGCTGGTAGGGGGAGAGGGGAGGGA			
45398 T	G	A	ATGACAGACAAAAAGACTACTGGAAACCAAAGAGCTGGTAGGGGGAGAGGGGAGGGA			
45398 IS	[AG]		NNNNNNNNNNNNNNNNNNNNGTCCCTCCCCTCTCCCCCTACCAGCTCTTT[AG]GTTTCCAGTAGTCTTTTTGTCTGTC ATTGCCATAGAAATACTTTTGTGGG	ctg14932	16	
45471 I		S	GCATGAGCCACCGAGCCCGGCTTACATTTTAT			
45471 P	T	S	CGCGCCGAGGATTATCAATTTTAAGAGGATGTTTTAATGGG			
45471 P	G	S	CGCGCCGAGGCTTATCAATTTTAAGAGGATGTTTTAATGG			
45471 T	T	S	CATTCCCATTAAAACATCCTCTTAAAATTGATAATTAAAATGTAAGCCGGGCTCGGTGGCTCATGCCT			
45471 T	G	S	CATTCCCATTAAAACATCCTCTTAAAATTGATAAGTAAAATGTAAGCCGGGCTCGGTGGCTCATGCCT			
45471 IS	[TG]		GAATATCAAATACATTCATTCCCATTAAAACATCCTCTTAAAATTGATAA[TG]TAAAATGTAAGCCGGGCTCGGTGGCTC ATGCCTGTAATCCTAGCACTCTG	ctg53	14	
45484 I		S	CTTCACTGGATACTCTCAGCGTGTTGAGTTTCATCACATATGTACCA			
45484 P	G	S	CGCGCCGAGGCGGCTGAGCGACCC			
45484 P	A	S	CGCGCCGAGGTGGCTGAGCGACCC			
45484 T	G	S	AAATGGGTCGCTCAGCCGGGTACATATGTGATGAAACTCAACACGCTGAGAGTATCCAGTGAAGTC			
45484 T	A	S	AAATGGGTCGCTCAGCCAGGTACATATGTGATGAAACTCAACACGCTGAGAGTATCCAGTGAAGTC			
45484 IS	[GA]		CTTTCCAGATCCATAAACCAAGGGAGTTTTGCTAAATGGGTCGCTCAGCC[GA]GGTACATATGTGATGAAACTCAACA CGCTGAGAGTATCCAGTGAAGTCTG	ctg12325	11	
48166 t		S	AGATTCTCACCATCGCTGATTCACACAAAAGCAT			
48166 P	T	S	CGCGCCGAGGATAAGTGAAAATCACACTGAAGATTTCY			
48166 P	C	S	CGCGCCGAGGGTAAGTGAAAATCACACTGAAGATTT			
48166 T	T	S	AGATGAAATCTTCAGTGTGATTTTCACTTATTGCTTTTGTGTGAATCAGCGATGGTGAGAATCTTC			
48166 T	C	S	AGATGAAATCTTCAGTGTGATTTTCACTTACTGCTTTTGTGTGAATCAGCGATGGTGAGAATCTTC			
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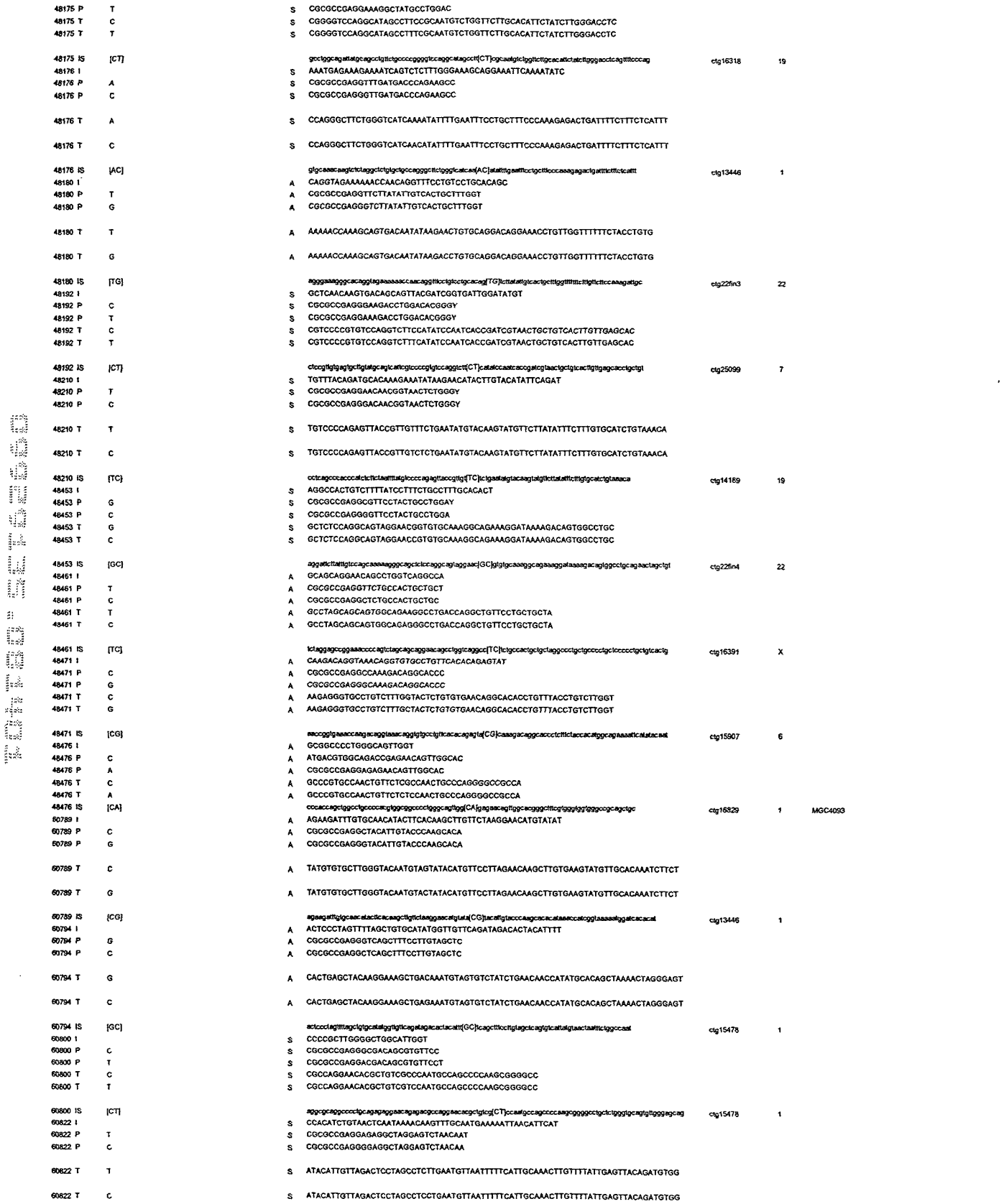

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48176 P C S CGCGCCGAGGGTTGATGACCCAGAAGCC
48176 T A S CCAGGGCTTCTGGGTCATCAAAATATTTTGAATTTCCTGCTTTCCCAAAGAGACTGATTTTCTTTCTCATTT
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48180 P G A CGCGCCGAGGGTCTTATATTGTCACTGCTTTGGT
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48180 IS [TG] ctg22fin3 22
48192 I S GCTCAACAAGTGACAGCAGTTACGATCGGTGATTGGATATGT
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48192 P T S CGCGCCGAGGAAAGACCTGGACACGGGY
48192 T C S CGTCCCCGTGTCCAGGTCTTCCATATCCAATCACCGATCGTAACTGCTGTCACTTGTTGAGCAC
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48210 P C S CGCGCCGAGGGACAACGGTAACTCTGGGY
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48210 T C S TGTCCCCAGAGTTACCGTTGTCTCTGAATATGTACAAGTATGTTCTTATATTTCTTTGTGCATCTGTAAACA
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48453 I S AGGCCACTGTCTTTTATCCTTTCTGCCTTTGCACACT
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48453 P C S CGCGCCGAGGGGTTCCTACTGCCTGGA
48453 T G S GCTCTCCAGGCAGTAGGAACGGTGTGCAAAGGCAGAAAGGATAAAAGACAGTGGCCTGC
48453 T C S GCTCTCCAGGCAGTAGGAACCGTGTGCAAAGGCAGAAAGGATAAAAGACAGTGGCCTGC
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48471 P G A CGCGCCGAGGGCAAAGACAGGCACCC
48471 T C A AAGAGGGTGCCTGTCTTTGGTACTCTGTGTGAACAGGCACACCTGTTTACCTGTCTTGGT
48471 T G A AAGAGGGTGCCTGTCTTTGCTACTCTGTGTGAACAGGCACACCTGTTTACCTGTCTTGGT
48471 IS [CG] ctg15907 6
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48476 P C A ATGACGTGGCAGACCGAGAACAGTTGGCAC
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48476 T A A GCCCGTGCCAACTGTTCTCTCCAACTGCCCAGGGGCCGCCA
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60789 P G A CGCGCCGAGGGTACATTGTACCCAAGCACA
60789 T C A TATGTGTGCTTGGGTACAATGTAGTATACATGTTCCTTAGAACAAGCTTGTGAAGTATGTTGCACAAATCTTCT
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60794 IS [GC] ctg15478 1
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60822 P C S CGCGCCGAGGGGAGGCTAGGAGTCTAACAA
60822 T T S ATACATTGTTAGACTCCTAGCCTCTTGAATGTTAATTTTTCATTGCAAACTTGTTTTATTGAGTTACAGATGTGG
60822 T C S ATACATTGTTAGACTCCTAGCCTCCTGAATGTTAATTTTTCATTGCAAACTTGTTTTATTGAGTTACAGATGTGG

FIGURE 129D

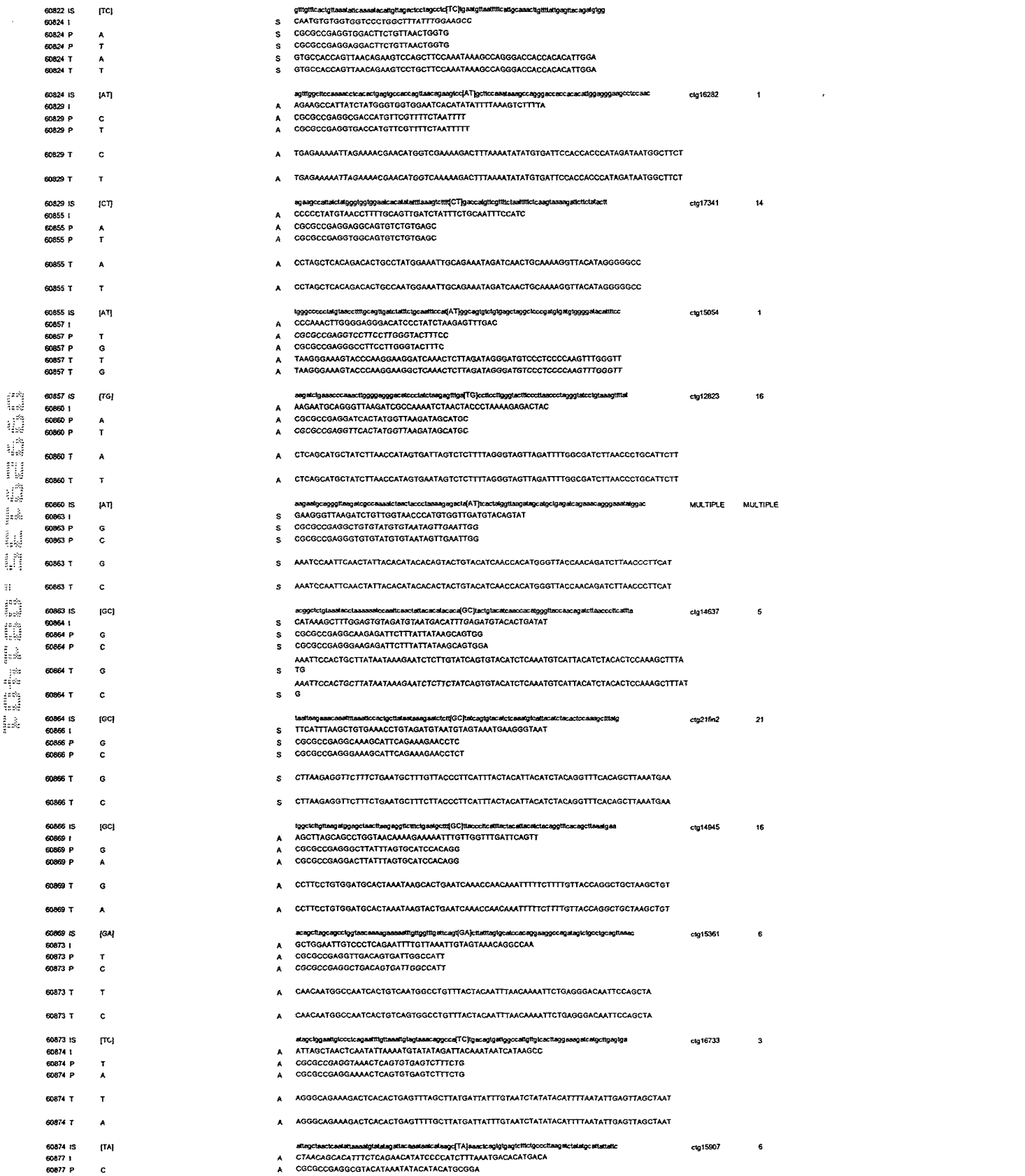

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60824 P A S CGCGCCGAGGTGGACTTCTGTTAACTGGTG
60824 P T S CGCGCCGAGGAGGACTTCTGTTAACTGGTG
60824 T A S GTGCCACCAGTTAACAGAAGTCCAGCTTCCAAATAAAGCCAGGGACCACCACACATTGGA
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60829 P C A CGCGCCGAGGCGACCATGTTCGTTTTCTAATTTT
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60829 T C A TGAGAAAAATTAGAAAACGAACATGGTCGAAAAGACTTTAAAATATATGTGATTCCACCACCCATAGATAATGGCTTCT
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60855 I A CCCCCTATGTAACCTTTTGCAGTTGATCTATTTCTGCAATTTCCATC
60855 P A A CGCGCCGAGGAGGCAGTGTCTGTGAGC
60855 P T A CGCGCCGAGGTGGCAGTGTCTGTGAGC
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60857 P T A CGCGCCGAGGTCCTTCCTTGGGTACTTTCC
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60860 P A A CGCGCCGAGGATCACTATGGTTAAGATAGCATGC
60860 P T A CGCGCCGAGGTTCACTATGGTTAAGATAGCATGC
60860 T A A CTCAGCATGCTATCTTAACCATAGTGATTAGTCTCTTTTAGGGTAGTTAGATTTTGGCGATCTTAACCCTGCATTCTT
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60863 P G S CGCGCCGAGGCTGTGTATGTGTAATAGTTGAATTGG
60863 P C S CGCGCCGAGGGTGTGTATGTGTAATAGTTGAATTGG
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60863 T C S AAATCCAATTCAACTATTACACATACACACTACTGTACATCAACCACATGGGTTACCAACAGATCTTAACCCTTCAT
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60864 I S CATAAAGCTTTGGAGTGTAGATGTAATGACATTTGAGATGTACACTGATAT
60864 P G S CGCGCCGAGGCAAGAGATTCTTTATTATAAGCAGTGG
60864 P C S CGCGCCGAGGGAAGAGATTCTTTATTATAAGCAGTGGA
60864 T G S AAATTCCACTGCTTATAATAAAGAATCTCTTGTATCAGTGTACATCTCAAATGTCATTACATCTACACTCCAAAGCTTTA TG
60864 T C S AAATTCCACTGCTTATAATAAAGAATCTCTTCTATCAGTGTACATCTCAAATGTCATTACATCTACACTCCAAAGCTTTAT G
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60866 P C S CGCGCCGAGGGAAAGCATTCAGAAAGAACCTCT
60866 T G S CTTAAGAGGTTCTTTCTGAATGCTTTGTTACCCTTCATTTACTACATTACATCTACAGGTTTCACAGCTTAAATGAA
60866 T C S CTTAAGAGGTTCTTTCTGAATGCTTTCTTACCCTTCATTTACTACATTACATCTACAGGTTTCACAGCTTAAATGAA
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60869 P A A CGCGCCGAGGACTTATTTAGTGCATCCACAGG
60869 T G A CCTTCCTGTGGATGCACTAAATAAGCACTGAATCAAACCAACAAATTTTTCTTTTGTTACCAGGCTGCTAAGCTGT
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60873 P C A CGCGCCGAGGCTGACAGTGATTGGCCATT
60873 T T A CAACAATGGCCAATCACTGTCAATGGCCTGTTTACTACAATTTAACAAAATTCTGAGGGACAATTCCAGCTA
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60877 P C A CGCGCCGAGGCGTACATAAATATACATACATGCGGA

FIGURE 129D

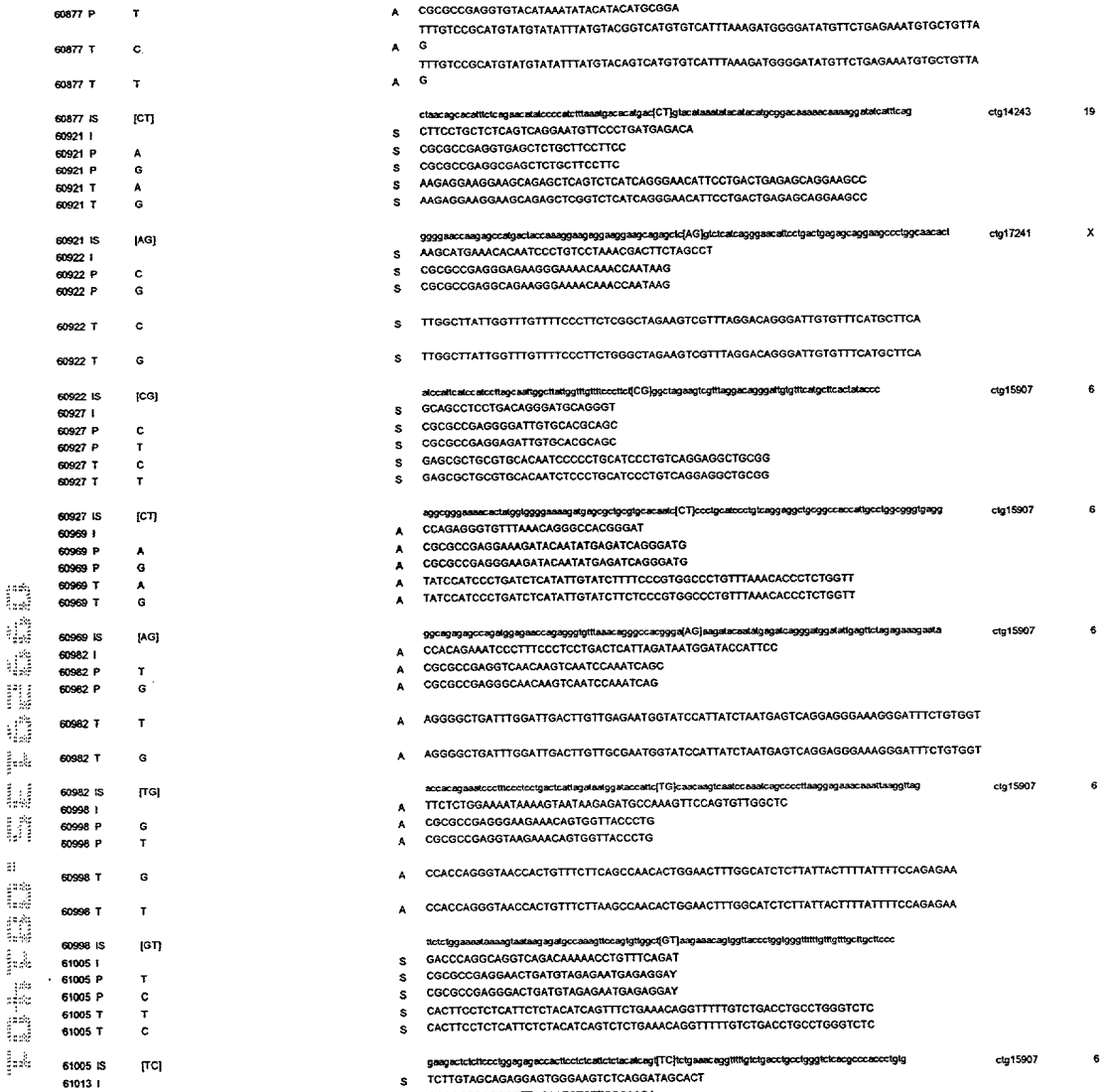

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60877 IS [CT] ctaacagcacatttctcagaacatatcccccatctttaaatgacacatgac[CT]gtacataaatatacatacatgcggacaaaaacaaaaggatatcatttcag ctg14243 19
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60921 P G S CGCGCCGAGGCGAGCTCTGCTTCCTTC
60921 T A S AAGAGGAAGGAAGCAGAGCTCAGTCTCATCAGGGAACATTCCTGACTGAGAGCAGGAAGCC
60921 T G S AAGAGGAAGGAAGCAGAGCTCGGTCTCATCAGGGAACATTCCTGACTGAGAGCAGGAAGCC
60921 IS [AG] ggggaaccaagagccatgactaccaaaggaagaggaaggaagcagagctc[AG]gtctcatcagggaacattcctgactgagagcaggaagccctggcaacact ctg17241 X
60922 I S AAGCATGAAACACAATCCCTGTCCTAAACGACTTCTAGCCT
60922 P C S CGCGCCGAGGGAGAAGGGAAAACAAACCAATAAG
60922 P G S CGCGCCGAGGCAGAAGGGAAAACAAACCAATAAG
60922 T C S TTGGCTTATTGGTTTGTTTTCCCTTCTCGGCTAGAAGTCGTTTAGGACAGGGATTGTGTTTCATGCTTCA
60922 T G S TTGGCTTATTGGTTTGTTTTCCCTTCTGGGCTAGAAGTCGTTTAGGACAGGGATTGTGTTTCATGCTTCA
60922 IS [CG] atccattcatccatcctagcaattggcttattggttgtttttccctct[CG]ggctagaagtcgtttaggacagggattgtgtttcatgcttcactatacccc ctg15907 6
60927 I S GCAGCCTCCTGACAGGGATGCAGGGT
60927 P C S CGCGCCGAGGGGATTGTGCACGCAGC
60927 P T S CGCGCCGAGGAGATTGTGCACGCAGC
60927 T C S GAGCGCTGCGTGCACAATCCCCCTGCATCCCTGTCAGGAGGCTGCGG
60927 T T S GAGCGCTGCGTGCACAATCTCCCTGCATCCCTGTCAGGAGGCTGCGG
60927 IS [CT] aggcgggaaaacactatgggtgggaaaagatgagcgctgcgtgcacaatc[CT]ccctgcatcccctgtcaggaggctgcggccaccattgcctggcgggtgagg ctg15907 6
60969 I A CCAGAGGGTGTTTAAACAGGGCCACGGGAT
60969 P A A CGCGCCGAGGAAAGATACAATATGAGATCAGGGATG
60969 P G A CGCGCCGAGGGAAGATACAATATGAGATCAGGGATG
60969 T A A TATCCATCCCTGATCTCATATTGTATCTTTTCCCGTGGCCCTGTTTAAACACCCTCTGGTT
60969 T G A TATCCATCCCTGATCTCATATTGTATCTTCTCCCGTGGCCCTGTTTAAACACCCTCTGGTT
60969 IS [AG] ggcagagagccagatgggagaaccagagggtgtttaaacagggccacgggat[AG]aagatacaatatgagatcagggatgggtatgagttctagagaaagaata ctg15907 6
60982 I A CCACAGAAATCCCTTTCCCTCCTGACTCATTAGATAATGGATACCATTCC
60982 P T A CGCGCCGAGGTCAACAAGTCAATCCAAATCAGC
60982 P G A CGCGCCGAGGGCAACAAGTCAATCCAAATCAG
60982 T T A AGGGGCTGATTTGGATTGACTTGTTGAGAATGGTATCCATTATCTAATGAGTCAGGAGGGAAAGGGATTTCTGTGGT
60982 T G A AGGGGCTGATTTGGATTGACTTGTTGCGAATGGTATCCATTATCTAATGAGTCAGGAGGGAAAGGGATTTCTGTGGT
60982 IS [TG] accacagaaatcccttcccctcctgactcattagataatggataccattc[TG]caacaagtcaatccaaatcagcccctttaaggagaaacaaatcaaggttag ctg15907 6
60998 I A TTCTCTGGAAAATAAAAGTAATAAGAGATGCCAAAGTTCCAGTGTTGGCTC
60998 P G A CGCGCCGAGGGAAGAAACAGTGGTTACCCTG
60998 P T A CGCGCCGAGGTAAGAAACAGTGGTTACCCTG
60998 T G A CCACCAGGGTAACCACTGTTTCTTCAGCCAACACTGGAACTTTGGCATCTCTTATTACTTTTATTTTCCAGAGAA
60998 T T A CCACCAGGGTAACCACTGTTTCTTAAGCCAACACTGGAACTTTGGCATCTCTTATTACTTTTATTTTCCAGAGAA
60998 IS [GT] ttctctggaaaataaaagtaataagagatgccaaagttccagtgttggct[GT]aagaaacagtggttacctggtgggttttttgttgtttgcttgcttccc ctg15907 6
61005 I S GACCCAGGCAGGTCAGACAAAAACCTGTTTCAGAT
61005 P T S CGCGCCGAGGAACTGATGTAGAGAATGAGAGGAY
61005 P C S CGCGCCGAGGGACTGATGTAGAGAATGAGAGGAY
61005 T T S CACTTCCTCTCATTCTCTACATCAGTTTCTGAAACAGGTTTTTGTCTGACCTGCCTGGGTCTC
61005 T C S CACTTCCTCTCATTCTCTACATCAGTCTCTGAAACAGGTTTTTGTCTGACCTGCCTGGGTCTC
61005 IS [TC] gaagactctcttcccttggagagaccactcctctcattctctacatcagt[TC]tctgaaacaggttttgtctgacctgcctgggtctcacgcccaccctgtg ctg15907 6
61013 I S TCTTGTAGCAGAGGAGTGGGAAGTCTCAGGATAGCACT
61013 P G S CGCGCCGAGGCGTTAGAATGTCTTGGCAAGA
61013 P T S CGCGCCGAGGAGTTAGAATGTCTTGGCAAGAAT
61013 T G S CTGGATTCTTGCCAAGACATTCTAACGGTGCTATCCTGAGACTTCCCACTCCTCTGCTACAAGACA
61013 T T S CTGGATTCTTGCCAAGACATTCTAACTGTGCTATCCTGAGACTTCCCACTCCTCTGCTACAAGACA
61013 IS [GT] gttacccccttatataacctcactggattctgccaagacattctaac[GT]gtgctatcctgagactcccactcctctgctacaagacagtcttatttcct ctg15907 6
61033 I A TGGAGGTTTCCTAAAAGATATTCAGCTCTTCCATTATTAGATACCCTAGGT
61033 P C A CGCGCCGAGGCAGAGCTTTTCAAACTATTTGTGG
61033 P A A CGCGCCGAGGAAGAGCTTTTCAAACTATTTGTGG
61033 T C A TTCACCACAAATAGTTTGAAAAGCTCTGCCTAGGGTATCTAATAATGGAAGAGCTGAATATCTTTTAGGAAACCTCCA
61033 T A A TTCACCACAAATAGTTTGAAAAGCTCTTCCTAGGGTATCTAATAATGGAAGAGCTGAATATCTTTTAGGAAACCTCCA
61033 IS [CA] tggaggtttcctaaaagatattcagctcttccattattagataccctagg[CA]agagctttcaaactatttgtggtgaatgaccagttggctttgtttggtt ctg15907 6
61035 I A TGACTGGCTCCTTCACTGTATTCAGATATCCCATTCTCAGAGAAT
61035 P G A CGCGCCGAGGGTCTCCCTTCTCTGTGAAAC
61035 P A A CGCGCCGAGGATCTCCCTTCTCTGTGAAACC
61035 T G A GCTAGGTTTCACAGAGAAGGGAGACTTCTCTGAGAATGGGATATCTGAATACAGTGAAGGAGCCAGTCATG
61035 T A A GCTAGGTTTCACAGAGAAGGGAGATTTCTCTGAGAATGGGATATCTGAATACAGTGAAGGAGCCAGTCATG
61035 IS [GA] attccatgactggcicctticactgtattcagatatcccattctcagagaa[GA]tctcccttctctgtgaaacctagcagcttticatcacttctatcctctta ctg25099 7
61036 I A GTAATTCCCAGTATTCTGTAGTATTAACAATGAGACTTAAAGTACTGGTGT
61036 P G A CGCGCCGAGGGAGAAATTAAATTTGTCCCTTTCATTTATC
61036 P A A CGCGCCGAGGAAGAAATTAAATTTGTCCCTTTCATTTATC
61036 T G AAAAGATAAATGAAAGGGACAAATTTAATTTCTCCACCAGTACTTTAAGTCTCATTGTTAATACTACAGAATACTGGGAA A TTAC
61036 T A AAAAGATAAATGAAAGGGACAAATTTAATTTCTTCACCAGTACTTTAAGTCTCATTGTTAATACTACAGAATACTGGGAA A TTAC
61036 IS [GA] gtaatcccagtattctgtagtattaacaatgagactaaagtactggtg[GA]agaaattaaattgtcccttcatttatcttcttaaagcictttaaagt ctg19247 7
61041 I S TTCATTACAGTATTGCAAGGATTAGATTAATATATAAAACACAATTTAGAT
61041 P G S CGCGCCGAGGCCATTACTTGACACAAACTGC
61041 P T S CGCGCCGAGGACATTACTTGACACAAACTGCT

FIGURE 129D

61041 T	G	S	ACTGAGCAGTTTGTGTCAAGTAATGGTCTAAATTGTGTTTTATATATTAATCTAATCCTTGCAATACTGTAATGAA				
61041 T	T	S	ACTGAGCAGTTTGTGTCAAGTAATGTTCTAAATTGTGTTTTATATATTAATCTAATCCTTGCAATACTGTAATGAA				
61041 IS	[GT]		ggctaatattaatatcataactatactgagcagtttgtgtcaagtaatg[GT]tctaaattgtgttttatatattaatctaatcctttgcaatactgtaatgaa	MULTIPLE	12		
61052 I		S	TCCCTGGAATTCATTACCTGCACAAAGTGTAGTCTCCAGAT				
61052 P	G	S	CGCGCCGAGGCCTTGAGTGCTGCCTC				
61052 P	T	S	CGCGCCGAGGACTTGAGTGCTGCCTCT				
61052 T	G	S	AAATAGAGGCAGCACTCAAGGTCTGGAGACTACACTTTGTGCAGGTAATGAATTCCAGGGAAA				
61052 T	T	S	AAATAGAGGCAGCACTCAAGTTCTGGAGACTACACTTTGTGCAGGTAATGAATTCCAGGGAAA				
61052 IS	[GT]		agtataaaccatcaatttatagtaaaatataaaaatagagggcagcactcaag[GT]ctggagactacactttgtgcaggtaatgaattccagggaaaagcttggg	ctg15064	7		
61065 I		S	CCCAGTTCCTCTCCATATGGGCCCCATCAA				
61065 P	G	S	CGCGCCGAGGCAGGGCTGTTCCTGACA				
61065 P	A	S	CGCGCCGAGGTAGGGCTGTTCCTGACAG				
61065 T	G	S	GCAGCTGTCAGGAACAGCCCTGTGATGGGGCCCATATGGAGAGGAACTGGGGT				
61065 T	A	S	GCAGCTGTCAGGAACAGCCCTATGATGGGGCCCATATGGAGAGGAACTGGGGT				
61065 IS	[GA]		tctggatcactggtccaggggaatccggcagctgtcaggaacagcccc[GA]tgatggggcccatatggagaggaactggggtctcccacaaatagccagca	ctg14033	7		
61081 I		A	CAGCTTGTGTGTGTCCCGTGTCTCTGTGACTT				
61081 P	A	A	CGCGCCGAGGAACTGATGTGACCAGAACCT				
61081 P	G	A	CGCGCCGAGGGACTGATGTGACCAGAACC				
61081 T	A	A	TTTGAGGTTCTGGTCACATCAGTTAGTCACAGAGACACGGGACACACACAAGCTGCT				
61081 T	G	A	TTTGAGGTTCTGGTCACATCAGTCAGTCACAGAGACACGGGACACACACAAGCTGCT				
61081 IS	[AG]		actagacggcaatacccaagcagcttgtgtgtgtcccgtgtctctgtgact[AG]actgatgtgaccagaacctcaaaggcagcacggatgatttgtgctcacca	ctg13010	2		
61082 I		A	TCACAGACTGAGCTCTGCAATCAGGTGAATCACTTTTGATGTAT				
61082 P	A	A	CGCGCCGAGGATTTTGGTTTCTAAAGGAATAGTGAC				
61082 P	G	A	CGCGCCGAGGGTTTTGGTTTCTAAAGGAATAGTGAC				
61082 T	A	A	CCATGTCACTATTCCTTTAGAAACCAAAATTACATCAAAAGTGATTCACCTGATTGCAGAGCTCAGTCTGTGAAG				
61082 T	G	A	CCATGTCACTATTCCTTTAGAAACCAAAACTACATCAAAAGTGATTCACCTGATTGCAGAGCTCAGTCTGTGAAG				
61082 IS	[AG]		acccactcacagactgagctctgcaatcaggtgaatcactttgatgta[AG]tttggtttctaaaggaatagtgacatgggagagaacagaaaatatactt	ctg15684	5		
61092 I		S	CCCTGGGCTGATCACTCGGGGAAGAACTT				
61092 P	G	S	CGCGCCGAGGCAGACAAAGTTTCTCACCCTC				
61092 P	C	S	CGCGCCGAGGGAGACAAAGTTTCTCACCCTC				
61092 T	G	S	GCCTGAGGGTGAGAAACTTTGTCTGAGTTCTTCCCCGAGTGATCAGCCCAGGGGT				
61092 T	C	S	GCCTGAGGGTGAGAAACTTTGTCTCAGTTCTTCCCCGAGTGATCAGCCCAGGGGT				
61092 IS	[GC]		aagggcccagtaattaaaccctttgggcctgagggtgagaaacttgtct[GC]agttcttccccgagtgatcagcccagggtaaggaaggagaagccagaa				
4378 I		S	AGGCACAAATACACCCTGGCAGACATGCTA				
4378 P	G	S	ATGACGTGGCAGACCAGACTTATACCGAACCAC				
4378 P	A	S	CGCGCCGAGGTAGACTTATACCGAACCACA				
4378 T	G	S	TGGCTGTGGTTCGGTATAAGTCTGAGCATGTCTGCCAGGGTGTATTTGTGCCTGT				
4378 T	A	S	TGGCTGTGGTTCGGTATAAGTCTAAGCATGTCTGCCAGGGTGTATTTGTGCCTGT				
4378 IS	[GA]		TGTGCCGGATGGCTTCTGTGTGAGAGCGCGCGCGAGTGTGCATGTCGGTGAGCTGGGAGGGTGTGTCTCAGTGTCT ATGGCTGTGGTTCGGTATAAGTCT[GA]AGCATGTCTGCCAGGGTGTATTTGTGCCTGTATGTGCGTGCCTCGGTGGG CACTCTCGTTTCCTTCCGAATGTGGGGCAGTGCCGGTGTGCTGCCCTCTG	ctg15907	6	ADRB2	
4887 I		A	GTCCGGAACGACAACTCCTCCCGCTTA				
4887 P	C	A	ATGACGTGGCAGACCGTGAGTGGTCCCTG				
4887 P	T	A	CGCGCCGAGGTGTGAGTGGTCCCTG				
4887 T	C	A	AGGTCAGGGACCACTCACGAAGCGGGAGGAGTTGTCGTTCCGGACGG				
4887 T	T	A	AGGTCAGGGACCACTCACAAAGCGGGAGGAGTTGTCGTTCCGGACGG				
4887 IS	[CT]		CCCTGCTCTGGAGGCCTTTGGCAATGCCAAGACCGTCCGGAACGACAACTCCTCCCGCTT[CT]GTGAGTGGTCCCTG ACCTTGGCCTTGGGACTTGGACTGGTGGAGGAATGGTCTCAGATAT				
5290 I		S	CCCCCAAGGTGCATAGTAGGTTTATTTGAGGACTGAAA				
5290 P	A	S	CGCGCCGAGGTTCACATCTTATACCTGTTTATTTCY				
5290 P	G	S	ATGACGTGGCAGACCTCACATCTTATACCTGTTTATTTCY				
5290 T	A	S	ATGAGAAATAAACAGGTATAAGATGTGAATTCAGTCCTCAAATAAACCTACTATGCACCTTGGGGGAA				
5290 T	G	S	ATGAGAAATAAACAGGTATAAGATGTGAGTTCAGTCCTCAAATAAACCTACTATGCACCTTGGGGGAA				
5290 IS	[AG]		AGCACCTGTCACGTCCTGCAGTAGAAAGTTCCATGAGAAATAAACAGGTATAAGATGTGA[AG]TTCAGTCCTCAAATAA ACCTACTATGCACCTTGGGGGAAAGCCAACATGCAATGGCATAG	ctg16920	19		
5347 I		S	GCAAGCTTTCGAGCAATCAGGCCTGGAT				
5347 P	C	S	ATGACGTGGCAGACGGGGAAAAAGCAGGGY				
5347 P	T	S	CGCGCCGAGGAGGGAAAAAGCAGGGAY				
5347 T	C	S	TTTCTCCCTGCTTTTTCCCCTCCAGGCCTGATTGCTCGAAAGCTTGCCC				
5347 T	T	S	TTTCTCCCTGCTTTTTCCCTTCCAGGCCTGATTGCTCGAAAGCTTGCCC				
5347 IS	[CT]		ACTCCCTGTCCCCACTTTCTCCCATGCAAACTTCATCTCTTTTTCTCCCTGCTTTTTCCC[CT]TCCAGGCCTGATTGCT CGAAAGCTTGCCCTTGCTCAGCTGCGCCAGGAGAGGTGAAGTTT	ctg22fin4	22		
5404 I		A	TCTGCCTGTTGGCGGGCACAAGCA				
5404 P	C	A	ATGACGTGGCAGACCTCAGTGTCCTGTGGTY				
5404 P	T	A	CGCGCCGAGGTTCAGTGTCCTGTGGTY				
5404 T	C	A	ACTCACCACAGGACACTGAGGCTTGTGCCCGCCAACAGGCAGAAC				
5404 T	T	A	ACTCACCACAGGACACTGAAGCTTGTGCCCGCCAACAGGCAGAAC				
5404 IS	[CT]		GCAATGCATCGCCGGAGACTGGCCCTGGGTCTGGGGTTCTGCCTGTTGGCGGGCACAAGC[CT]TCAGTGTCCTGTG GTGAGTCTGCCCCACGGAGCTCCCCCTGTCTCTATCCCCACCCAGGA				
5487 I		A	CCACCTCCTCCCACGTCCCACTCAT				
5487 P	G	A	ATGACGTGGCAGACGCTCCACCCCACAGY				
5487 P	A	A	CGCGCCGAGGACTCCACCCCACAGY				
5487 T	G	A	GCTGCTGTGGGGTGGAGCTGAGTGGGACGTGGGAGGAGGTGGCG				
5487 T	A	A	GCTGCTGTGGGGTGGAGTTGAGTGGGACGTGGGAGGAGGTGGCG				
5487 IS	[GA]		TTGGCGGGGGTCCAAGGGGTCTTCCCATCTAACTCGCCACCTCCTCCCACGTCCCACTCA[GA]CTCCACCCCACAGC AGCCAAGAAGCCAGGGCATCACTTGACCTTCCGCTGCGTCAGTCTC	ctg15064	7		
5931 I		S	CCCGAGTTTGAGGAAGAGGAGGAGGAGGAGT				
5931 P	T	S	CGCGCCGAGGAAAGAGGAGGAGATAGCCY				
5931 P	C	S	ATGACGTGGCAGACGAAGAGGAGGAGATAGCCY				
5931 T	T	S	CAGTGGCTATCTCCTCCTCTTTCTCCTCCTCCTCCTCTTCCTCAAACTCGGGTT				
5931 T	C	S	CAGTGGCTATCTCCTCCTCTTCCTCCTCCTCCTCCTCTTCCTCAAACTCGGGTT				
5931 IS	[TC]		CTGTGTAGGTCTCTACTGTTGTGAAGGGGAATGCCTGGCCAGTGGCTATCTCCTCCTCTT[TC]CTCCTCCTCCTCCTC TTCCTCAAACTCGGGTTCCAGCTGGGTCTCAAACTCAGGCTCCAA	ctg15064	7		
6039 I		S	CGGGGGTGCCCGGGCATTA				
6039 P	G	S	ATGACGTGGCAGACCGGAGGCCGCC				
6039 P	A	S	CGCGCCGAGGTGGAGGCCGCCA				

FIGURE 129D

6039 T	G	S	CAGCTGGCGGCCTCCGAATGCCCGGGCACCCCCGCC				
6039 T	A	S	CAGCTGGCGGCCTCCAAATGCCCGGGCACCCCCGCC				
6039 IS	[GA]		CCAGTGCTGGACACGTAGGAGTTCTCCTGCGGGGAAGGGGGGATGCAGCTGGCGGCCTCC[GA]AATGCCCGGGCA CCCCCGCCACCACTGCCTGCAGCTTCTCTAGCCTCTCGTACACCTGCA	ctg17207	19		
6105 I		A	TCTAGGCGTGGTACTTCACTTGGGGGGTC				
6105 P	T	A	CGCGCCGAGGTGGGGGAGGAGAGTY				
6105 P	G	A	ATGACGTGGCAGACGGGGGGAGGAGAGTY				
6105 T	T	A	CCCCACTCTCCTCCCCCAACCCCCCAAGTGAAGTACCACGCCTAGACC				
6105 T	G	A	CCCCACTCTCCTCCCCCCACCCCCCAAGTGAAGTACCACGCCTAGACC				
6105 IS	[TG]		AGCCAGCCAGAGCCCCTGTCGGCAGTGCCGGGTCTAGGCGTGGTACTTCACTTGGGGGGT[TG]GGGGGAGGAGAG TGGGGGCTTTGAGGAGCTGCTCCATCAGATGAGGAGACGGGGCCCCGA	ctg25099	7		
6126 I		A	GAATTTTGTGGGCTGTGTCTGCCCACCGA				
6126 P	C	A	ATGACGTGGCAGACCCTCCGTGTATCTTTTGGY				
6126 P	T	A	CGCGCCGAGGTCTCCGTGTATCTTTTGGAY				
6126 T	C	A	TGTTTCCAAAAGATACACGGAGGCGGTGGGCAGACACAGCCCACAAAATTCAA				
6126 T	T	A	TGTTTCCAAAAGATACACGGAGACGGTGGGCAGACACAGCCCACAAAATTCAA				
6126 IS	[CT]		CTTTGTGCTTCCTGACATGTGCGCGGTGCTTTGAATTTTGTGGGCTGTGTCTGCCCACCG[CT]CTCCGTGTATCTTTT GGAAACATTTTACAGTGATCCATATATGTTCTAGCGTTCTGCCCT				
6290 I		A	GGGCCCAGGACTGGTGAAGCCTTCT				
6290 P	G	A	ATGACGTGGCAGACGGAGACCCTGTCCCY				
6290 P	A	A	CGCGCCGAGGAGAGACCCTGTCCCTY				
6290 T	G	A	GGTGAGGGACAGGGTCTCCGAAGGCTTCACCAGTCCTGGGCCCGA				
6290 T	A	A	GGTGAGGGACAGGGTCTCTGAAGGCTTCACCAGTCCTGGGCCCGA				
6290 IS	[GA]		CACAGGGGTCCTGTCCCAGGTGCAGCTGCAGGAGTCGGGCCCAGGACTGGTGAAGCCTTC[GA]GAGACCCTGTCCC TCACCTGCACTGTCTCTGGTGGCTCCGTCAGCAGTGGTAGTTACTAC	ctg19175	19		
6642 I		S	GCTCTGGGGTCCCACCTGCTCCTGA				
6642 P	A	S	CGCGCCGAGGTAGGCAGAGCCAAGCY				
6642 P	G	S	ATGACGTGGCAGACCAGGCAGAGCCAAGY				
6642 T	A	S	TGCTGCTTGGCTCTGCCTACAGGAGCAGGTGGGACCCCAGAGCCT				
6642 T	G	S	TGCTGCTTGGCTCTGCCTGCAGGAGCAGGTGGGACCCCAGAGCCT				
6642 IS	[AG]		GCAATTAAAGTTTCTCTATAAAACCAAGACCTCTGTGTGTCATGCTGCTTGGCTCTGCCT[AG]CAGGAGCAGGTGGGA CCCCAGAGCCTGCATGGACAGTCAGTGGGGTCCCAGCCTGCCCTG	ctg53	14		
6653 I		S	CCAGCTGTCTCTAGGGGTTGCCTGAGAGTGT				
6653 P	C	S	ATGACGTGGCAGACGTGTCTTGTGTGCTTATTTCY				
6653 P	G	S	CGCGCCGAGGCTGTCTTGTGTGCTTATTTCY				
6653 T	C	S	AGAAGAAATAAGCACACAAGACACCACTCTCAGGCAACCCCTAGAGACAGCTGGTC				
6653 T	G	S	AGAAGAAATAAGCACACAAGACAGCACTCTCAGGCAACCCCTAGAGACAGCTGGTC				
6653 IS	[CG]		GCAAGTTATCCAGCTGTACCTGCAGAAAACAGTTAAGAGAAGAAATAAGCACACAAGACA[CG]CACTCTCAGGCAACC CCTAGAGACAGCTGGTCCTTCTGAAGGAGCCCAGGCAAAAGACAG	ctg15128	17		
6696 I		A	GCCTCCTCTATGATCTCTGACTTCTCACCCCAGTT				
6696 P	G	A	ATGACGTGGCAGACGCCTTCATTCCTGGCY				
6696 P	A	A	CGCGCCGAGGACCTTCATTCCTGGCTY				
6696 T	G	A	ATACAGCCAGGAATGAAGGCACTGGGGTGAGAAGTCAGAGATCATAGAGGAGGCTC				
6696 T	A	A	ATACAGCCAGGAATGAAGGTACTGGGGTGAGAAGTCAGAGATCATAGAGGAGGCTC				
6696 IS	[GA]		AGTCCCTGACCCCACAACTCTCAAGAGCCTCCTCTATGATCTCTGACTTCTCACCCCAGT[GA]CCTTCATTCCTGGCT GTATTTGGCAGTGACAGAGTGAACAGCCCACTTCTAAAGTTACTC	ctg15907	6		
6898 I		A	GCATGTGGTTTGCGCCCCAGGGT				
6898 P	G	A	ATGACGTGGCAGACGTGGGGATTGGGCAY				
6898 P	A	A	CGCGCCGAGGATGGGGATTGGGCATY				
6898 T	G	A	AGCCATGCCCAATCCCCACCCCTGGGGCGCAAACCACATGCCT				
6898 T	A	A	AGCCATGCCCAATCCCCATCCCTGGGGCGCAAACCACATGCCT				
6898 IS	[GA]		AAGAAGCTGCTTCTGTTTCCTCTGCAGATACAGGTCAGGCATGTGGTTTGCGCCCCAGGG[GA]TGGGGATTGGGCAT GGCTGCCCAGCCCCCTCTCCACCCTACAATACCATTCTCTTATCTC	ctg15064	7		
11068 I		A	GGACGGTTTGGTCAGACTATAAATAAGATAGGTTTGAGGGCATAAAATT				
11068 P	G	A	ATGACGTGGCAGACGTATGACCACTGGGGCY				
11068 P	A	A	CGCGCCGAGGATATGACCACTGGGGCY				
11068 T	G	A	TCCGGCCCCAGTGGTCATACATTTTATGCCCTCAAACCTATCTTATTTATAGTCTGACCAAACCGTCCCC				
11068 T	A	A	TCCGGCCCCAGTGGTCATATATTTTATGCCCTCAAACCTATCTTATTTATAGTCTGACCAAACCGTCCCC				
11068 IS	[GA]		TGAGCAGTCTGGGGACGGTTTGGTCAGACTATAAATAAGATAGGTTTGAGGGCATAAAAT[GA]TATGACCACTGGGGC CGGAGTATCTATTTCTACATAGTCAGCTACTTCTGAAACTGCAGC	ctg15064	7	PACE4	
11259 I		S	TGCCAGGTTTCGTCTCTGGGCAGAACTGA				
11259 P	A	S	CGCGCCGAGGTCCCATGCTCTTTGTCTY				
11259 P	G	S	ATGACGTGGCAGACCCCCATGCTCTTTGTCY				
11259 T	A	S	GTGCAGACAAAGAGCATGGGACAGTTCTGCCCAGAGACGAAACCTGGCACC				
11259 T	G	S	GTGCAGACAAAGAGCATGGGGCAGTTCTGCCCAGAGACGAAACCTGGCACC				
11259 IS	[AG]		CTTGGCGTGGCACTTACACCAGCTGCCGCCCCCCTCCTCCCGTGCAGACAAAGAGCATGGG[AG]CAGTTCTGCCCAGA GACGAAACCTGGCACCTGTTGGCCAGGACGCGTTTTTGCCAGCATT				
11291 I		A	GGTGTTTCCACTTGTTCTCAGATTCCTAGATGATAGCGCT				
11291 P	G	A	ATGACGTGGCAGACGCTGCGCTTAAGAGAAGY				
11291 P	A	A	CGCGCCGAGGACTGCGCTTAAGAGAAGTY				
11291 T	G	A	GGAAACTTCTCTTAAGCGCAGCGCGCTATCATCTAGGAATCTGAGAACAAGTGGAAACACCTG				
11291 T	A	A	GGAAACTTCTCTTAAGCGCAGTGCGCTATCATCTAGGAATCTGAGAACAAGTGGAAACACCTG				
11291 IS	[GA]		AAGAGGTATGCCTAATGAGCAGGTGTTTCCACTTGTTCTCAGATTCCTAGATGATAGCGC[GA]CTGCGCTTAAGAGAA GTTTCCTTCAGGGGATTGTTTTTAGAAAGCATCTGAGGGTCTGTT	ctg19247	7		
12191 I		A	GTGACTCTTCAGTGTCGCTCTCGTCTTGGGTTTAAA				
12191 P	T	A	CGCGCCGAGGTGAATTCAGTCTGTCCAAAGY				
12191 P	C	A	ATGACGTGGCAGACCGAATTCAGTCTGTCCAAAY				
12191 T	T	A	TCTTCTTTGGACAGACTGAATTCATTAAACCCAAGACGAGAGCGACACTGAAGAGTCACAT				
12191 T	C	A	TCTTCTTTGGACAGACTGAATTCGTTAAACCCAAGACGAGAGCGACACTGAAGAGTCACAT				
12191 IS	[TC]		CACTGTGGTGTCTGAAGGACAACATGTGACTCTTCAGTGTCGCTCTCGTCTTGGGTTTAA[TC]GAATTCAGTCTGTCC AAAGAAGACGGGATGCCTGTCCCTGAGCTCTACAACAGAATATTC	ctg15422	X		
12767 I		A	GAGGGGCTGGGGGGTGAGGGT				
12767 P	G	A	ATGACGTGGCAGACGGAAGCTGTGTGGCY				
12767 P	A	A	CGCGCCGAGGAGAAGCTGTGTGGCTY				
12767 T	G	A	GGGGAGCCACACAGCTTCCCCCTCACCCCCCAGCCCCTCCC				
12767 T	A	A	GGGGAGCCACACAGCTTCTCCCTCACCCCCCAGCCCCTCCC				
12767 IS	[GA]		CCAGGAAGCACAAGAAAATGGAGCACAGGCAGAGGCCCGGGAGGGGCTGGGGGGTGAGGG[GA]GAAGCTGTGTGG CTCCCCCACCAATAATACAAAGCTGGAGTCAAATGCAAATCTGGGGGT	ctg15422	X		
13614 I		S	CCACGGTCGTGACCCAAACTTAAACCTGGGA				
13614 P	G	S	ATGACGTGGCAGACCAGAACCCATGTGAAAGAY				
13614 P	A	S	CGCGCCGAGGTAGAACCCATGTGAAAGACY				
13614 T	G	S	TCCCGTCTTTCACATGGGTTCTGCCCAGGTTTAAGTTTGGGTCACGACCGTGGAC				
13614 T	A	S	TCCCGTCTTTCACATGGGTTCTACCCAGGTTTAAGTTTGGGTCACGACCGTGGAC				
13614 IS	[GA]		CACACATTCAGAGCCCATTGATTCAGTTAGAACTTGCCTCCCGTCTTTCACATGGGTTCT[GA]CCCAGGTTTAAGTTTG GGTCACGACCGTGGACTTCTGGGTCACTGTATCATCATCTGTGG	ctg13715	13		
14204 I		A	GACATGAAGCCCACCACCAACACAGGAGAT				
14204 P	A	A	CGCGCCGAGGAAAGCCCCACGGCY				

FIGURE 129D

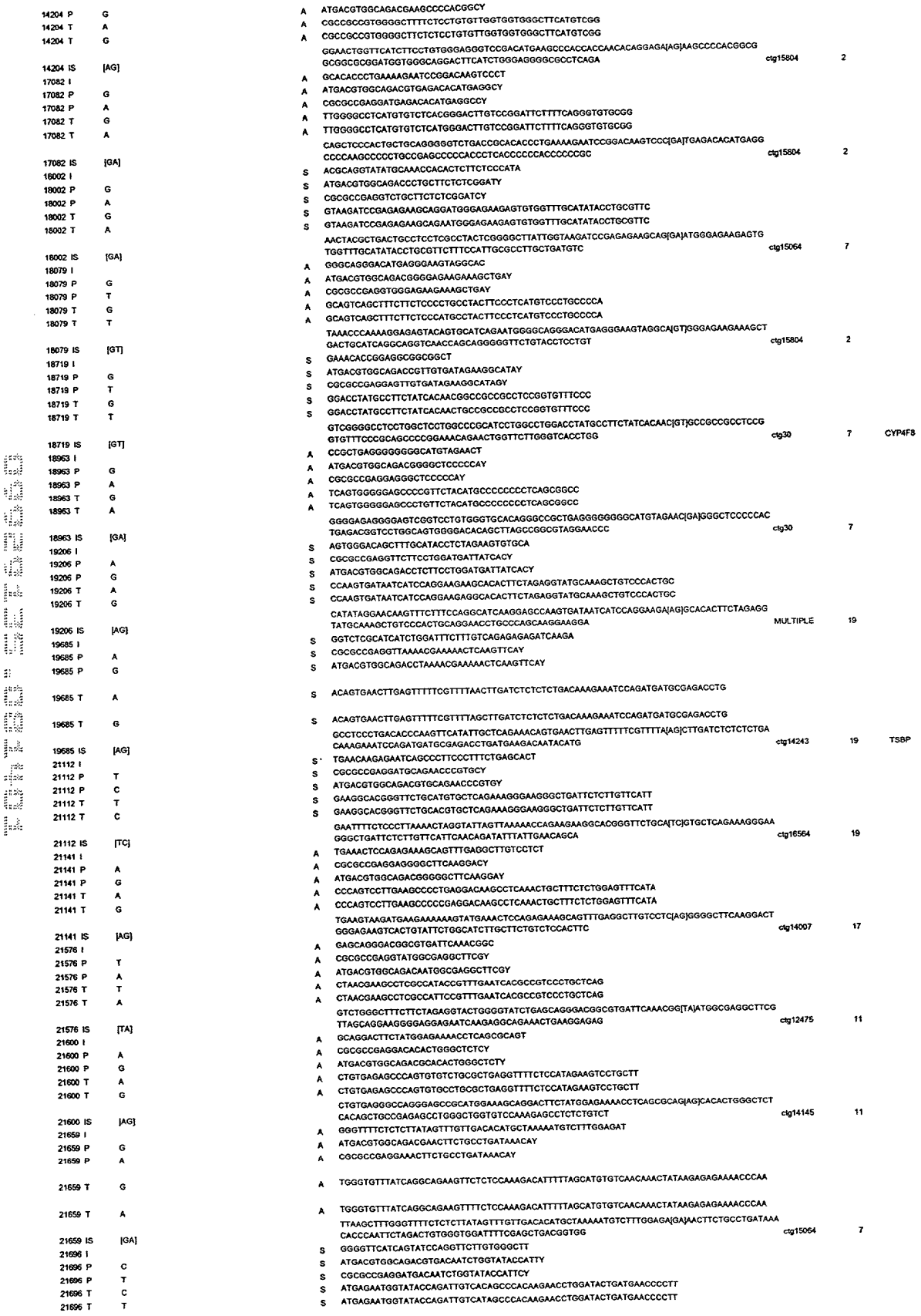

14204 P G
14204 T A
14204 T G
14204 IS [AG]
17082 I
17082 P G
17082 P A
17082 T G
17082 T A
17082 IS [GA]
18002 I
18002 P G
18002 P A
18002 T G
18002 T A
18002 IS [GA]
18079 I
18079 P G
18079 P T
18079 T G
18079 T T
18079 IS [GT]
18719 I
18719 P G
18719 P T
18719 T G
18719 T T
18719 IS [GT]
18963 I
18963 P G
18963 P A
18963 T G
18963 T A
18963 IS [GA]
19206 I
19206 P A
19206 P G
19206 T A
19206 T G
19206 IS [AG]
19685 I
19685 P A
19685 P G
19685 T A
19685 T G
19685 IS [AG]
21112 I
21112 P T
21112 P C
21112 T T
21112 T C
21112 IS [TC]
21141 I
21141 P A
21141 P G
21141 T A
21141 T G
21141 IS [AG]
21576 I
21576 P T
21576 P A
21576 T T
21576 T A
21576 IS [TA]
21600 I
21600 P A
21600 P G
21600 T A
21600 T G
21600 IS [AG]
21659 I
21659 P G
21659 P A
21659 T G
21659 T A
21659 IS [GA]
21696 I
21696 P C
21696 P T
21696 T C
21696 T T
A ATGACGTGGCAGACGAAGCCCCACGGCY
A CGCCGCCGTGGGGCTTTTCTCCTGTGTTGGTGGTGGGCTTCATGTCGG
A CGCCGCCGTGGGGCTTCTCTCCTGTGTTGGTGGTGGGCTTCATGTCGG
GGAACTGGTTCATCTTCCTGTGGGAGGGTCCGACATGAAGCCCACCACCAACACAGGAGA[AG]AAGCCCCACGGCG
GCGGCGCGGATGGTGGGCAGGACTTCATCTGGGAGGGGCGCCTCAGA ctg15804 2
A GCACACCCTGAAAAGAATCCGGACAAGTCCCT
A ATGACGTGGCAGACGTGAGACACATGAGGCY
A CGCGCCGAGGATGAGACACATGAGGCCY
A TTGGGGCCTCATGTGTCTCACGGGACTTGTCCGGATTCTTTTCAGGGTGTGCGG
A TTGGGGCCTCATGTGTCTCATGGGACTTGTCCGGATTCTTTTCAGGGTGTGCGG
CAGCTCCCACTGCTGCAGGGGGTCTGACCGCACACCCTGAAAAGAATCCGGACAAGTCCC[GA]TGAGACACATGAGG
CCCCAAGCCCCCTGCCGAGCCCCCACCCTCACCCCCCCACCCCCCGC ctg15804 2
S ACGCAGGTATATGCAAACCACACTCTTCTCCCATA
S ATGACGTGGCAGACCCTGCTTCTCTCGGATY
S CGCGCCGAGGTCTGCTTCTCTCGGATCY
S GTAAGATCCGAGAGAAGCAGGATGGGAGAAGAGTGTGGTTTGCATATACCTGCGTTC
S GTAAGATCCGAGAGAAGCAGAATGGGAGAAGAGTGTGGTTTGCATATACCTGCGTTC
AACTACGCTGACTGCCTCCTCGCCTACTCGGGGCTTATTGGTAAGATCCGAGAGAAGCAG[GA]ATGGGAGAAGAGTG
TGGTTTGCATATACCTGCGTTCTTTCCATTGCGCCTTGCTGATGTC ctg15064 7
A GGGCAGGGACATGAGGGAAGTAGGCAC
A ATGACGTGGCAGACGGGGAGAAGAAAGCTGAY
A CGCGCCGAGGTGGGAGAAGAAAGCTGAY
A GCAGTCAGCTTTCTTCTCCCCTGCCTACTTCCCTCATGTCCCTGCCCCA
A GCAGTCAGCTTTCTTCTCCCATGCCTACTTCCCTCATGTCCCTGCCCCA
TAAACCCAAAAGGAGAGTACAGTGCATCAGAATGGGGCAGGGACATGAGGGAAGTAGGCA[GT]GGGAGAAGAAAGCT
GACTGCATCAGGCAGGTCAACCAGCAGGGGGTTCTGTACCTCCTGT ctg15804 2
S GAAACACCGGAGGCGGCGGCT
S ATGACGTGGCAGACCGTTGTGATAGAAGGCATAY
S CGCGCCGAGGAGTTGTGATAGAAGGCATAGY
S GGACCTATGCCTTCTATCACAACGGCCGCCGCCTCCGGTGTTTCCC
S GGACCTATGCCTTCTATCACAACTGCCGCCGCCTCCGGTGTTTCCC
GTCGGGGCCTCCTGGCTCCTGGCCCGCATCCTGGCCTGGACCTATGCCTTCTATCACAAC[GT]GCCGCCGCCTCCG
GTGTTTCCCGCAGCCCCGGAAACAGAACTGGTTCTTGGGTCACCTGG ctg30 7 CYP4F8
A CCGCTGAGGGGGGGGCATGTAGAACT
A ATGACGTGGCAGACGGGGCTCCCCCAY
A CGCGCCGAGGAGGGCTCCCCCAY
A TCAGTGGGGGAGCCCCGTTCTACATGCCCCCCCCTCAGCGGCC
A TCAGTGGGGGAGCCCTGTTCTACATGCCCCCCCCTCAGCGGCC
GGGGAGAGGGGAGTCGGTCCTGTGGGTGCACAGGGCCGCTGAGGGGGGGGCATGTAGAAC[GA]GGGCTCCCCCAC
TGAGACGGTCCTGGCAGTGGGGACACAGCTTAGCCGGCGTAGGAACCC ctg30 7
S AGTGGGACAGCTTTGCATACCTCTAGAAGTGTGCA
S CGCGCCGAGGTTCTTCCTGGATGATTATCACY
S ATGACGTGGCAGACCTCTTCCTGGATGATTATCACY
S CCAAGTGATAATCATCCAGGAAGAAGCACACTTCTAGAGGTATGCAAAGCTGTCCCACTGC
S CCAAGTGATAATCATCCAGGAAGAGGCACACTTCTAGAGGTATGCAAAGCTGTCCCACTGC
CATATAGGAACAAGTTTCTTTCCAGGCATCAAGGAGCCAAGTGATAATCATCCAGGAAGA[AG]GCACACTTCTAGAGG
TATGCAAAGCTGTCCCACTGCAGGAACCTGCCCAGCAAGGAAGGA MULTIPLE 19
S GGTCTCGCATCATCTGGATTTCTTTGTCAGAGAGAGATCAAGA
S CGCGCCGAGGTTAAAACGAAAAACTCAAGTTCAY
S ATGACGTGGCAGACCTAAAACGAAAAACTCAAGTTCAY
S ACAGTGAACTTGAGTTTTTCGTTTTAACTTGATCTCTCTCTGACAAAGAAATCCAGATGATGCGAGACCTG
S ACAGTGAACTTGAGTTTTTCGTTTTAGCTTGATCTCTCTCTGACAAAGAAATCCAGATGATGCGAGACCTG
GCCTCCCTGACACCCAAGTTCATATTGCTCAGAAACAGTGAACTTGAGTTTTTCGTTTTA[AG]CTTGATCTCTCTCTGA
CAAAGAAATCCAGATGATGCGAGACCTGATGAAGACAATACATG ctg14243 19 TSBP
S TGAACAAGAGAATCAGCCCTTCCCTTTCTGAGCACT
S CGCGCCGAGGATGCAGAACCCGTGCY
S ATGACGTGGCAGACGTGCAGAACCCGTGY
S GAAGGCACGGGTTCTGCATGTGCTCAGAAAGGGAAGGGCTGATTCTCTTGTTCATT
S GAAGGCACGGGTTCTGCACGTGCTCAGAAAGGGAAGGGCTGATTCTCTTGTTCATT
GAATTTTCTCCCTTAAAACTAGGTATTAGTTAAAAACCAGAAGAAGGCACGGGTTCTGCA[TC]GTGCTCAGAAAGGGAA
GGGCTGATTCTCTTGTTCATTCAACAGATATTTATTGAACAGCA ctg16564 19
A TGAAACTCCAGAGAAAGCAGTTTGAGGCTTGTCCTCT
A CGCGCCGAGGAGGGGCTTCAAGGACY
A ATGACGTGGCAGACGGGGGCTTCAAGGAY
A CCCAGTCCTTGAAGCCCCTGAGGACAAGCCTCAAACTGCTTTCTCTGGAGTTTCATA
A CCCAGTCCTTGAAGCCCCGAGGACAAGCCTCAAACTGCTTTCTCTGGAGTTTCATA
TGAAGTAAGATGAAGAAAAAAGTATGAAACTCCAGAGAAAGCAGTTTGAGGCTTGTCCT[AG]GGGGCTTCAAGGACT
GGGAGAAGTCACTGTATTCTGGCATCTTGCTTCTGTCTCCACTTC ctg14007 17
A GAGCAGGGACGGCGTGATTCAAACGGC
A CGCGCCGAGGTATGGCGAGGCTTCGY
A ATGACGTGGCAGACAATGGCGAGGCTTCGY
A CTAACGAAGCCTCGCCATACCGTTTGAATCACGCCGTCCCTGCTCAG
A CTAACGAAGCCTCGCCATTCCGTTTGAATCACGCCGTCCCTGCTCAG
GTCTGGGCTTTCTTCTAGAGGTACTGGGGTATCTGAGCAGGGACGGCGTGATTCAAACGG[TA]ATGGCGAGGCTTCG
TTAGCAGGAAGGGGAGGAGAATCAAGAGGCAGAAACTGAAGGAGAG ctg12475 11
A GCAGGACTTCTATGGAGAAAACCTCAGCGCAGT
A CGCGCCGAGGACACACTGGGCTCTCY
A ATGACGTGGCAGACGCACACTGGGCTCTY
A CTGTGAGAGCCCAGTGTGTCTGCGCTGAGGTTTTCTCCATAGAAGTCCTGCTT
A CTGTGAGAGCCCAGTGTGCCTGCGCTGAGGTTTTCTCCATAGAAGTCCTGCTT
CTGTGAGGGCCAGGGAGCCGCATGGAAAGCAGGACTTCTATGGAGAAAACCTCAGCGCAG[AG]CACACTGGGCTCT
CACAGCTGCCGAGAGCCTGGGCTGGTGTCCAAAGAGCCTCTCTGTCT ctg14145 11
A GGGTTTTCTCTCTTATAGTTTGTTGACACATGCTAAAAATGTCTTTGGAGAT
A ATGACGTGGCAGACGAACTTCTGCCTGATAAACAY
A CGCGCCGAGGAAACTTCTGCCTGATAAACAY
A TGGGTGTTTATCAGGCAGAAGTTCTCTCCAAAGACATTTTTAGCATGTGTCAACAAACTATAAGAGAGAAAACCCAA
A TGGGTGTTTATCAGGCAGAAGTTTTCTCCAAAGACATTTTTAGCATGTGTCAACAAACTATAAGAGAGAAAACCCAA
TTAAGCTTTGGGTTTTCTCTCTTATAGTTTGTTGACACATGCTAAAAATGTCTTTGGAGA[GA]AACTTCTGCCTGATAAA
CACCCAATTCTAGACTGTGGGTGGATTTTCGAGCTGACGGTGG ctg15064 7
S GGGGTTCATCAGTATCCAGGTTCTTGTGGGCTT
S ATGACGTGGCAGACGTGACAATCTGGTATACCATTY
S CGCGCCGAGGATGACAATCTGGTATACCATTCY
S ATGAGAATGGTATACCAGATTGTCACAGCCCACAAGAACCTGGATACTGATGAACCCCTT
S ATGAGAATGGTATACCAGATTGTCATAGCCCACAAGAACCTGGATACTGATGAACCCCTT

FIGURE 129D

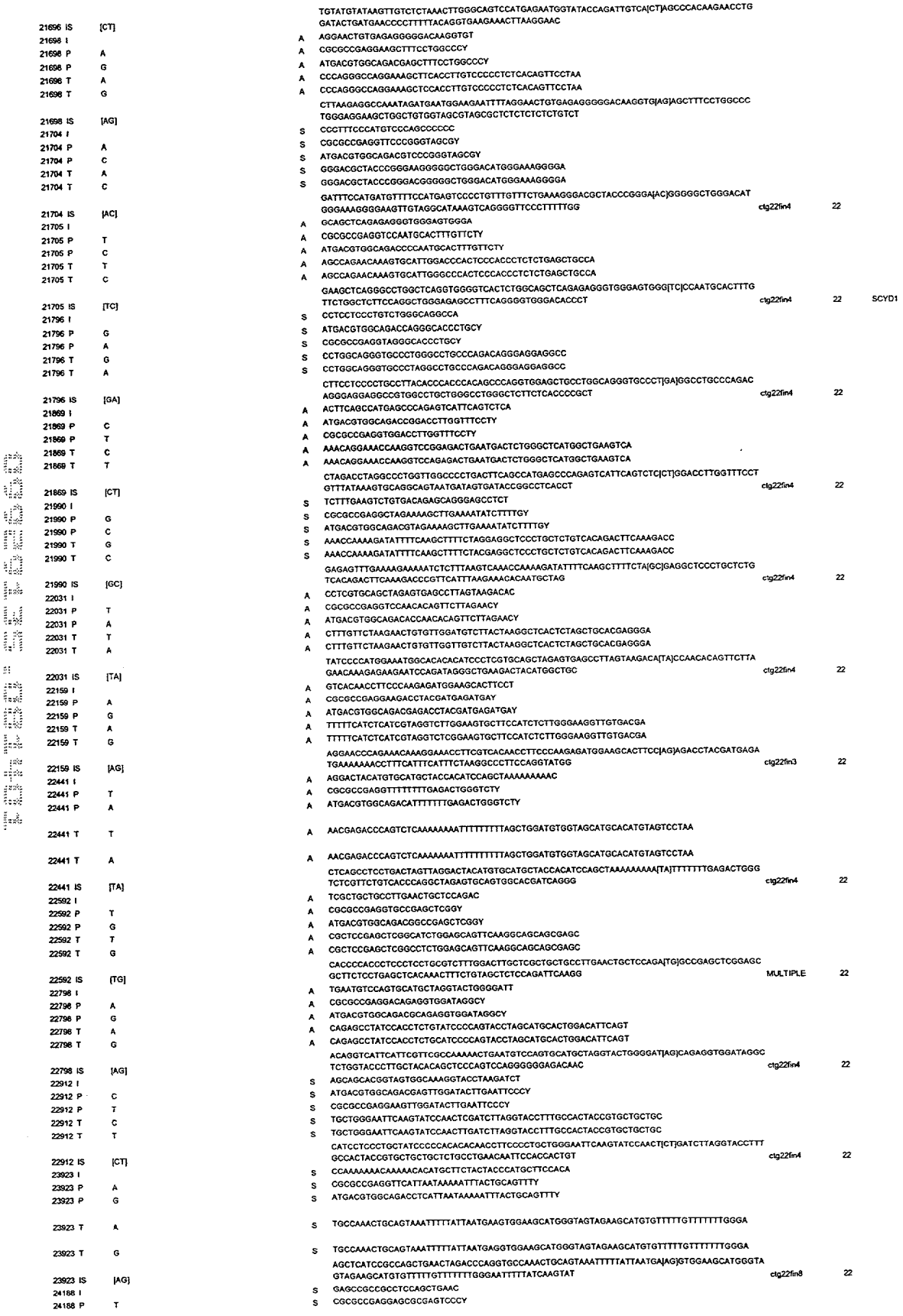

TGTATGTATAAGTTGTCTCTAAACTTGGGCAGTCCATGAGAATGGTATACCAGATTGTCA[CT]AGCCCACAAGAACCTG
21696 IS [CT] GATACTGATGAACCCCTTTTTACAGGTGAAGAAACTTAAGGAAC
21698 I A AGGAACTGTGAGAGGGGGACAAGGTGT
21698 P A A CGCGCCGAGGAAGCTTTCCTGGCCCY
21698 P G A ATGACGTGGCAGACGAGCTTTCCTGGCCCY
21698 T A A CCCAGGGCCAGGAAAGCTTCACCTTGTCCCCCTCTCACAGTTCCTAA
21698 T G A CCCAGGGCCAGGAAAGCTCCACCTTGTCCCCCTCTCACAGTTCCTAA
CTTAAGAGGCCAAATAGATGAATGGAAGAATTTTAGGAACTGTGAGAGGGGGACAAGGTG[AG]AGCTTTCCTGGCCC
21698 IS [AG] TGGGAGGAAGCTGGCTGTGGTAGCGTAGCGCTCTCTCTCTGTCT
21704 I S CGCTTTCCCATGTCCCAGCCCCCC
21704 P A S CGCGCCGAGGTTCCCGGGTAGCGY
21704 P C S ATGACGTGGCAGACGTCCCGGGTAGCGY
21704 T A S GGGACGCTACCCGGGGAAGGGGGCTGGGACATGGGAAAGGGGA
21704 T C S GGGACGCTACCCGGGACGGGGGCTGGGACATGGGAAAGGGGA
GATTTCCATGATGTTTTCCATGAGTCCCCTGTTTGTTTCTGAAAGGGACGCTACCCGGGA[AC]GGGGGCTGGGACAT
21704 IS [AC] GGGAAAGGGGAAGTTGTAGGCATAAAGTCAGGGGTTCCCTTTTTGG ctg22fin4 22
21705 I A GCAGCTCAGAGAGGGTGGGAGTGGGA
21705 P T A CGCGCCGAGGTCCAATGCACTTTGTTCTY
21705 P C A ATGACGTGGCAGACCCCAATGCACTTTGTTCTY
21705 T T A AGCCAGAACAAAGTGCATTGGACCCACTCCCACCCTCTCTGAGCTGCCA
21705 T C A AGCCAGAACAAAGTGCATTGGGCCCACTCCCACCCTCTCTGAGCTGCCA
GAAGCTCAGGGCCTGGCTCAGGTGGGGTCACTCTGGCAGCTCAGAGAGGGTGGGAGTGGG[TC]CCAATGCACTTTG
21705 IS [TC] TTCTGGCTCTTCCAGGCTGGGAGAGCCTTTCAGGGGTGGGACACCCT ctg22fin4 22 SCYD1
21796 I S CCTCCTCCCTGTCTGGGCAGGCCA
21796 P G S ATGACGTGGCAGACCAGGGCACCCTGCY
21796 P A S CGCGCCGAGGTAGGGCACCCTGCY
21796 T G S CCTGGCAGGGTGCCCTGGGCCTGCCCAGACAGGGAGGAGGCC
21796 T A S CCTGGCAGGGTGCCCTAGGCCTGCCCAGACAGGGAGGAGGCC
CTTCCTCCCCTGCCTTACACCCACCCACAGCCCAGGTGGAGCTGCCTGGCAGGGTGCCCT[GA]GGCCTGCCCAGAC
21796 IS [GA] AGGGAGGAGGCCGTGGCCTGCTGGGCCTGGGCTCTTCTCACCCCGCT ctg22fin4 22
21869 I A ACTTCAGCCATGAGCCCAGAGTCATTCAGTCTCA
21869 P C A ATGACGTGGCAGACCGGACCTTGGTTTCCTY
21869 P T A CGCGCCGAGGTGGACCTTGGTTTCCTY
21869 T C A AAACAGGAAACCAAGGTCCGGAGACTGAATGACTCTGGGCTCATGGCTGAAGTCA
21869 T T A AAACAGGAAACCAAGGTCCAGAGACTGAATGACTCTGGGCTCATGGCTGAAGTCA
CTAGACCTAGGCCCTGGTTGGCCCCTGACTTCAGCCATGAGCCCAGAGTCATTCAGTCTC[CT]GGACCTTGGTTTCCT
21869 IS [CT] GTTTATAAAGTGCAGGCAGTAATGATAGTGATACCGGCCTCACCT ctg22fin4 22
21990 I S TCTTTGAAGTCTGTGACAGAGCAGGGAGCCTCT
21990 P G S CGCGCCGAGGCTAGAAAAGCTTGAAAATATCTTTTGY
21990 P C S ATGACGTGGCAGACGTAGAAAAGCTTGAAAATATCTTTTGY
21990 T G S AAACCAAAAGATATTTTCAAGCTTTTCTAGGAGGCTCCCTGCTCTGTCACAGACTTCAAAGACC
21990 T C S AAACCAAAAGATATTTTCAAGCTTTTCTACGAGGCTCCCTGCTCTGTCACAGACTTCAAAGACC
GAGAGTTTGAAAAGAAAAATCTCTTTAAGTCAAACCAAAAGATATTTTCAAGCTTTTCTA[GC]GAGGCTCCCTGCTCTG
21990 IS [GC] TCACAGACTTCAAAGACCCGTTCATTTAAGAAACACAATGCTAG ctg22fin4 22
22031 I A CCTCGTGCAGCTAGAGTGAGCCTTAGTAAGACAC
22031 P T A CGCGCCGAGGTCCAACACAGTTCTTAGAACY
22031 P A A ATGACGTGGCAGACACCAACACAGTTCTTAGAACY
22031 T T A CTTTGTTCTAAGAACTGTGTTGGATGTCTTACTAAGGCTCACTCTAGCTGCACGAGGGA
22031 T A A CTTTGTTCTAAGAACTGTGTTGGTTGTCTTACTAAGGCTCACTCTAGCTGCACGAGGGA
TATCCCCATGGAAATGGCACACACACATCCCTCGTGCAGCTAGAGTGAGCCTTAGTAAGACA[TA]CCAACACAGTTCTTA
22031 IS [TA] GAACAAAGAGAAGAATCCAGATAGGGCTGAAGACTACATGGCTGC ctg22fin4 22
22159 I A GTCACAACCTTCCCAAGAGATGGAAGCACTTCCT
22159 P A A CGCGCCGAGGAAGACCTACGATGAGATGAY
22159 P G A ATGACGTGGCAGACGAGACCTACGATGAGATGAY
22159 T A A TTTTTCATCTCATCGTAGGTCTTGGAAGTGCTTCCATCTCTTGGGAAGGTTGTGACGA
22159 T G A TTTTTCATCTCATCGTAGGTCTCGGAAGTGCTTCCATCTCTTGGGAAGGTTGTGACGA
AGGAACCCAGAAACAAAGGAAACCTTCGTCACAACCTTCCCAAGAGATGGAAGCACTTCC[AG]AGACCTACGATGAGA
22159 IS [AG] TGAAAAAAACCTTTCATTTCATTTCTAAGGCCCTTCCAGGTATGG ctg22fin3 22
22441 I A AGGACTACATGTGCATGCTACCACATCCAGCTAAAAAAAAAC
22441 P T A CGCGCCGAGGTTTTTTTTGAGACTGGGTCTY
22441 P A A ATGACGTGGCAGACATTTTTTTGAGACTGGGTCTY
22441 T T A AACGAGACCCAGTCTCAAAAAAAATTTTTTTTTTAGCTGGATGTGGTAGCATGCACATGTAGTCCTAA
22441 T A A AACGAGACCCAGTCTCAAAAAAATTTTTTTTTTAGCTGGATGTGGTAGCATGCACATGTAGTCCTAA
CTCAGCCTCCTGACTAGTTAGGACTACATGTGCATGCTACCACATCCAGCTAAAAAAAAA[TA]TTTTTTTGAGACTGGG
22441 IS [TA] TCTCGTTCTGTCACCCAGGCTAGAGTGCAGTGGCACGATCAGGG ctg22fin4 22
22592 I A TCGCTGCTGCCTTGAACTGCTCCAGAC
22592 P T A CGCGCCGAGGTGCCGAGCTCGGY
22592 P G A ATGACGTGGCAGACGGCCGAGCTCGGY
22592 T T A CGCTCCGAGCTCGGCATCTGGAGCAGTTCAAGGCAGCAGCGAGC
22592 T G A CGCTCCGAGCTCGGCCTCTGGAGCAGTTCAAGGCAGCAGCGAGC
CACCCCACCCTCCCTCCTGCGTCTTTGGACTTGCTCGCTGCTGCCTTGAACTGCTCCAGA[TG]GCCGAGCTCGGAGC
22592 IS [TG] GCTTCTCCTGAGCTCACAAACTTTCTGTAGCTCTCCAGATTCAAGG MULTIPLE 22
22798 I A TGAATGTCCAGTGCATGCTAGGTACTGGGGATT
22798 P A A CGCGCCGAGGACAGAGGTGGATAGGCY
22798 P G A ATGACGTGGCAGACGCAGAGGTGGATAGGCY
22798 T A A CAGAGCCTATCCACCTCTGTATCCCCAGTACCTAGCATGCACTGGACATTCAGT
22798 T G A CAGAGCCTATCCACCTCTGCATCCCCAGTACCTAGCATGCACTGGACATTCAGT
ACAGGTCATTCATTCGTTCGCCAAAAACTGAATGTCCAGTGCATGCTAGGTACTGGGGAT[AG]CAGAGGTGGATAGGC
22798 IS [AG] TCTGGTACCCTTGCTACACAGCTCCCAGTCCAGGGGGGAGACAAC ctg22fin4 22
22912 I S AGCAGCACGGTAGTGGCAAAGGTACCTAAGATCT
22912 P C S ATGACGTGGCAGACGAGTTGGATACTTGAATTCCCY
22912 P T S CGCGCCGAGGAAGTTGGATACTTGAATTCCCY
22912 T C S TGCTGGGAATTCAAGTATCCAACTCGATCTTAGGTACCTTTGCCACTACCGTGCTGCTGC
22912 T T S TGCTGGGAATTCAAGTATCCAACTTGATCTTAGGTACCTTTGCCACTACCGTGCTGCTGC
CATCCTCCCTGCTATCCCCCACACACAACCTTCCCCTGCTGGGAATTCAAGTATCCAACT[CT]GATCTTAGGTACCTTT
22912 IS [CT] GCCACTACCGTGCTGCTGCTCTGCCTGAACAATTCCACCACTGT ctg22fin4 22
23923 I S CCAAAAAAACAAAAACACATGCTTCTACTACCCATGCTTCCACA
23923 P A S CGCGCCGAGGTTCATTAATAAAAATTTACTGCAGTTTY
23923 P G S ATGACGTGGCAGACCTCATTAATAAAAATTTACTGCAGTTTY
23923 T A S TGCCAAACTGCAGTAAATTTTTATTAATGAAGTGGAAGCATGGGTAGTAGAAGCATGTGTTTTTGTTTTTTTGGGA
23923 T G S TGCCAAACTGCAGTAAATTTTTATTAATGAGGTGGAAGCATGGGTAGTAGAAGCATGTGTTTTTGTTTTTTTGGGA
AGCTCATCCGCCAGCTGAACTAGACCCAGGTGCCAAACTGCAGTAAATTTTTATTAATGA[AG]GTGGAAGCATGGGTA
23923 IS [AG] GTAGAAGCATGTGTTTTTGTTTTTTTGGGAATTTTTATCAAGTAT ctg22fin8 22
24188 I S GAGCCGCCGCCTCCAGCTGAAC
24188 P T S CGCGCCGAGGAGCGCGAGTCCCY

FIGURE 129D

24188 P	A	S	ATGACGTGGCAGACTGCGCGAGTCCCY			
24188 T	T	S	CGCCGGGACTCGCGCTTTCAGCTGGAGGCGGCGGCTCCC			
24188 T	A	S	CGCCGGGACTCGCGCATTCAGCTGGAGGCGGCGGCTCCC			
24188 IS	[TA]		CGCTAGGCAGTTACTGAAGACCGTGCCCGCCCCTGCCCCACCCCGCGCCGGGACTCGCGC[TA]TTCAGCTGGAGGC GGCGGCTCCCTGGTGCGCGCCCAGCCCTGGTGCCCTGCTCTGGCCCT	ctg22fin4	22	
24432 I		A	CCCCAGTGTCTAGCATGAGACACGGGGT			
24432 P	G	A	ATGACGTGGCAGACGATGTTCCGTTGGAGGY			
24432 P	A	A	CGCGCCGAGGAATGTTCCGTTGGAGGY			
24432 T	G	A	CCACCCTCCAACGGAACATCCCCCGTGTCTCATGCTAGACACTGGGGCT			
24432 T	A	A	CCACCCTCCAACGGAACATTCCCCGTGTCTCATGCTAGACACTGGGGCT			
24432 IS	[GA]		GCAGAACCTGGGGTCTGGTGCCAGTGGAGACAGCCCCAGTGTCTAGCATGAGACACGGGG[GA]ATGTTCCGTTGGA GGGTGGGTATGATGACTCTCCTGAAAGCTTCCCTCCCTCCAGTCCAG	ctg22fin4	22	
24635 I		S	TCTCACTGGAATGTGTTATTATATAGTTTTCATTTGGGTTAATTATAAGAAGATGAAATT			
24635 P	C	S	ATGACGTGGCAGACGTGCTGTGAAGTTTTATGAACY			
24635 P	T	S	CGCGCCGAGGATGCTGTGAAGTTTTATGAACY			
24635 T	C	S	TTTTGTTCATAAAACTTCACAGCACATTTCATCTTCTTATAATTAACCCAAATGAAAACTATATAATAACACATTCCAGTG AGAG			
24635 T	T	S	TTTTGTTCATAAAACTTCACAGCATATTTCATCTTCTTATAATTAACCCAAATGAAAACTATATAATAACACATTCCAGTG AGAG			
24635 IS	[CT]		TAGGATGCAGCCAGACAGTGTGGTGGGGGGCAGTTGTTTTGTTCATAAAACTTCACAGCA[CT]ATTTCATCTTCTTATA ATTAACCCAAATGAAAACTATATAATAACACATTCCAGTGAGAG	ctg22fin4	22	
24706 I		A	GTTAATTTTCAAAAAATACTGTAAAAGACTTTAAGGAACAAGTTTTATTGACCAATAAGTC			
24706 P	T	A	CGCGCCGAGGTGATATTTGTCCATAGGTCTCY			
24706 P	G	A	ATGACGTGGCAGACGGATATTTGTCCATAGGTCTCY			
24706 T	T	A	AAAGGAGACCTATGGACAAATATCAACTTATTGGTCAATAAAACTTGTTCCTTAAAGTCTTTTACAGTATTTTTTGAAAA TTAAC			
24706 T	G	A	AAAGGAGACCTATGGACAAATATCCACTTATTGGTCAATAAAACTTGTTCCTTAAAGTCTTTTACAGTATTTTTTGAAAA TTAAC			
24706 IS	[TG]		GTTAATTTTCAAAAAATACTGTAAAAGACTTTAAGGAACAAGTTTTATTGACCAATAAGT[TG]GATATTTGTCCATAGGT CTCCTTTCTATAAATCATCTTGATGTTTAACAACTCTTATTAT			
24728 I		A	ACAGGTCCCTGGGCTCTATGACCATGGAAATT			
24728 P	C	A	CGCGCCGAGGCTCTAGATGAGTAAAAGAAAGCTY			
24728 P	G	A	ATGACGTGGCAGACGTCTAGATGAGTAAAAGAAAGCTY			
24728 T	C	A	GCCAAGCTTTCTTTTACTCATCTAGAGATTTCCATGGTCATAGAGCCCAGGGACCTGTTC			
24728 T	G	A	GCCAAGCTTTCTTTTACTCATCTAGACATTTCCATGGTCATAGAGCCCAGGGACCTGTTC			
24728 IS	[CG]		TATGAAGCTGTCCTACCCAGGAGCGGGGAACAGGTCCCTGGGCTCTATGACCATGGAAAT[CG]TCTAGATGAGTAAA AGAAAGCTTGGCAAAAATTGGGCAGGATCCTCAAACAAAGATTGAG	ctg22fin4	22	
24764 I		S	AGAAGGAGGCCCCCAGCAGCTCAA			
24764 P	A	S	CGCGCCGAGGTTGGTTAGCAACTGACCTY			
24764 P	G	S	ATGACGTGGCAGACCTGGTTAGCAACTGACCY			
24764 T	A	S	ACCAAGGTCAGTTGCTAACCAATGAGCTGCTGGGGGCCTCCTTCTCC			
24764 T	G	S	ACCAAGGTCAGTTGCTAACCAGTGAGCTGCTGGGGGCCTCCTTCTCC			
24764 IS	[AG]		TGGCCTCTGCCATCCCGGTCTGTGAGCGCCCCTTCTTACACCAAGGTCAGTTGCTAACCA[AG]TGAGCTGCTGGGGG CCTCCTTCTCCCACTCCCACTGCACTGTGTCCAGAGTGGCCAGCAC	ctg22fin4	22	
24895 I		S	AGATTGAGTAGTAAATTCTTACTAGATGAGGCTATGTTAAAGTTCTATCGAA			
24895 P	A	S	CGCGCCGAGGTTCTCCAAGTGATTCTAATATAATTGY			
24895 P	G	S	ATGACGTGGCAGACCTCTCCAAGTGATTCTAATATAATTGY			
24895 T	A	S	CCCTCAATTATATTAGAATCACTTGGAGAATCGATAGAACTTTAACATAGCCTCATCTAGTAAGAATTTACTACTCAATC TAT			
24895 T	G	S	CCCTCAATTATATTAGAATCACTTGGAGAGTCGATAGAACTTTAACATAGCCTCATCTAGTAAGAATTTACTACTCAATC TAT			
24895 IS	[AG]		CAGATGAAATCCCCCAAGCAAATGCAACACGCCCTCAATTATATTAGAATCACTTGGAGA[AG]TCGATAGAACTTTAAC ATAGCCTCATCTAGTAAGAATTTACTACTCAATCTATCAAAGAT	ctg22fin4	22	
24920 I		S	AAGTTACAGAATTTTTATTCTGATATTACTTCCTTTCTGGCTCTTCGT			
24920 P	T	S	CGCGCCGAGGAAAACTGGAAGGATAATTGGAY			
24920 P	C	S	ATGACGTGGCAGACGAAACTGGAAGGATAATTGGAY			
24920 T	T	S	TAATTCCAATTATCCTTCCAGTTTTCGAAGAGCCAGAAAGGAAGTAATATCAGAATAAAAATTCTGTAACTTGA			
24920 T	C	S	TAATTCCAATTATCCTTCCAGTTTCCGAAGAGCCAGAAAGGAAGTAATATCAGAATAAAAATTCTGTAACTTGA			
24920 IS	[TC]		GCCCTGCTTGCTGTTCTAGAATACTGAGGCTCTGAATAATTCCAATTATCCTTCCAGTTT[TC]CGAAGAGCCAGAAAGG AAGTAATATCAGAATAAAAATTCTGTAACTTGATTACCTCTGTA	ctg22fin4	22	
24994 I		S	GCTGGCTCTTCCCGGCCTGCCT			
24994 P	T	S	CGCGCCGAGGAGTCACAGCTTGGGGY			
24994 P	C	S	ATGACGTGGCAGACGGTCACAGCTTGGGGY			
24994 T	T	S	CAAACCCCAAGCTGTGACTGGCAGGCCGGGAAGAGCCAGCTA			
24994 T	C	S	CAAACCCCAAGCTGTGACCGGCAGGCCGGGAAGAGCCAGCTA			
24994 IS	[TC]		AAGCAGTCAAGCTTTGCCCTAGCCAGTCTCCCTCAATGCGGTCAAACCCCAAGCTGTGAC[TC]GGCAGGCCGGGAAG AGCCAGCTAAGAGCTTCCCAGCGAATGGCCAGGCTCCAGCGAGGCT	MULTIPLE	MULTIPLE	
26948 I		S	TGAGGCAAAGGAACTTGTATTAGCAGCTTTGAGGATGACT			
26948 P	C	S	ATGACGTGGCAGACGAGAAACAGAATTTAAGTGCTACY			
26948 P	T	S	CGCGCCGAGGAAGAAACAGAATTTAAGTGCTACY			
26948 T	C	S	TAGTGTAGCACTTAAATTCTGTTTCTCGTCATCCTCAAAGCTGCTAATACAAGTTCCTTTGCCTCAAG			
26948 T	T	S	TAGTGTAGCACTTAAATTCTGTTTCTTGTCATCCTCAAAGCTGCTAATACAAGTTCCTTTGCCTCAAG			
26948 IS	[CT]		TTGTCGATGATGTATTTGGGAAGCAACAAGATTCTAGTGTAGCACTTAAATTCTGTTTCT[CT]GTCATCCTCAAAGCTG CTAATACAAGTTCCTTTGCCTCAAGTGTGCTTCTCAAAAGTATA	ctg17326	12	
27085 I		A	GCTTCGGGTGCCCACCCATCCTCTCT			
27085 P	A	A	CGCGCCGAGGAATTGGCCAGAGTGCY			
27085 P	G	A	ATGACGTGGCAGACGATTGGCCAGAGTGCY			
27085 T	A	A	TTCTGCACTCTGGCCAATTGAGAGGATGGGTGGGCACCCGAAGCCC			
27085 T	G	A	TTCTGCACTCTGGCCAATCGAGAGGATGGGTGGGCACCCGAAGCCC			
27085 IS	[AG]		TTGTGTGTGGCTGCTACTACAACACATGCCTGAGGGCTTCGGGTGCCCACCCATCCTCTC[AG]ATTGGCCAGAGTGC AGAAGGAAGCCCATCTTCACAGAGGAAGGCATGGGGCAGATGCAGA	ctg14210	12	
27276 I		A	CCATTCCAGTATGCTTTTGGAGTTGGGTCTA			
27276 P	C	A	ATGACGTGGCAGACCATAAATGTATAGAAATGTTTCTGTTGY			
27276 P	T	A	CGCGCCGAGGTATAAATGTATAGAAATGTTTCTGTTGGY			
27276 T	C	A	TTTCCCAACAGAAACATTTCTATACATTTATGAGACCCAACTCCAAAAGCATACTGGAATGGAA			
27276 T	T	A	TTTCCCAACAGAAACATTTCTATACATTTATAAGACCCAACTCCAAAAGCATACTGGAATGGAA			
27276 IS	[CT]		TCTTTAGCTTCTGTAGTTCGGTCTTTAATTCCATTCCAGTATGCTTTTGGAGTTGGGTCT[CT]ATAAATGTATAGAAATG TTTCTGTTGGGAAACAGCAGGAGAATATTAAATAAATATTGTG	ctg1565	1	
27493 I		S	CACCAAGGGTTCATGCATCCAGGCTCTCAAA			
27493 P	A	S	CGCGCCGAGGTATTGAACTTAGAACCAATCCCY			
27493 P	G	S	ATGACGTGGCAGACCATTGAACTTAGAACCAATCCY			
27493 T	A	S	TGTTGGGATTGGTTCTAAGTTCAATATTGAGAGCCTGGATGCATGAACCCTTGGTGGA			
27493 T	G	S	TGTTGGGATTGGTTCTAAGTTCAATGTTGAGAGCCTGGATGCATGAACCCTTGGTGGA			
27493 IS	[AG]		TAAAGCCAAACAAAGCTTTGATGCAAATGGAGGTTTGTTGGGATTGGTTCTAAGTTCAAT[AG]TTGAGAGCCTGGATG CATGAACCCTTGGTGGAAGAGCTGGGAGACCATCCAAACTTTGCC	ctg16537	20	

FIGURE 129D

27782 I		A	GAAGGCAAAGAGACCAGAGAAGAGGAAAAAAAAAAAAAAGGAATGGTAAGT			
27782 P	A	A	CGCGCCGAGGAGAAATCCCGAGGCCY			
27782 P	C	A	ATGACGTGGCAGACCGAAATCCCGAGGCY			
27782 T	A	A	AGTGGGCCTCGGGATTTCTCTTACCATTCCTTTTTTTTTTTTTTCCTCTTCTCTGGTCTCTTTGCCTTCTC			
27782 T	C	A	AGTGGGCCTCGGGATTTCGCTTACCATTCCTTTTTTTTTTTTTCCTCTTCTCTGGTCTCTTTGCCTTCTC			
27782 IS	[AC]		GACAGAGTGAGAAGGCAAAGAGACCAGAGAAGAGGAAAAAAAAAAAAAAAGGAATGGTAAG[AC]GAAATCCCGAGGCC CACTTGACAAAGGCAGCCAAGGTGGAGGCTGGCTTGGGGGCTGTCT	ctg16263	1	
27950 I		A	GGTGTGGCTGGGTTGGGGTGGTTAGT			
27950 P	A	A	CGCGCCGAGGAAAAGTGTGCAGAAGATGGY			
27950 P	C	A	ATGACGTGGCAGACCAAAGTGTGCAGAAGATGY			
27950 T	A	A	CACACCATCTTCTGCACACTTTTCTAACCACCCCAACCCAGCCACACCCA			
27950 T	C	A	CACACCATCTTCTGCACACTTTGCTAACCACCCCAACCCAGCCACACCCA			
27950 IS	[AC]		CCTTTGCAGAGCAAGCATTTTGCATGTTTTCCATGGGTGTGGCTGGGTTGGGGGTGGTTAG[AC]AAAGTGTGCAGAAG ATGGTGTGGGAGAAGGGCAGGGCATGGAGAATCACAGTGGGGTCTC	ctg15749	X	
28070 I		S	GGAGGAAAGGGATTCAGACATTTTCAAGATCCATGATCAAACAAAAA			
28070 P	G	S	ATGACGTGGCAGACCACTCGAATGCCTCACY			
28070 P	A	S	CGCGCCGAGGTACTCGAATGCCTCACAY			
28070 T	G	S	CAAATGTGAGGCATTCGAGTGTTTTGTTTGATCATGGATCTTGAAAATGTCTGAATCCCTTTCCTCCCT			
28070 T	A	S	CAAATGTGAGGCATTCGAGTATTTTGTTTGATCATGGATCTTGAAAATGTCTGAATCCCTTTCCTCCCT			
28070 IS	[GA]		AAACTTCACTAAGCACATCCCTTGCTTGTGGCCTAGCGACCAAATGTGAGGCATTCGAGT[GA]TTTTGTTTGATCATGG ATCTTGAAAATGTCTGAATCCCTTTCCTCCCTGCAACTGGCCAT	ctg53	14	
28299 I		S	GCTGGAGGCGAAGACCAGGGCGAT			
28299 P	C	S	ATGACGTGGCAGACGGTGAGGGGCCGY			
28299 P	T	S	CGCGCCGAGGAGTGAGGGGCCGY			
28299 T	C	S	CACCCGGCCCCTCACCTCGCCCTGGTCTTCGCCTCCAGCAG			
28299 T	T	S	CACCCGGCCCCTCACTTCGCCCTGGTCTTCGCCTCCAGCAG			
28299 IS	[CT]		TGAGGGGCAGGAGGTAGGGAGCGCCCGGGGCGGGCCGCTGGGCTCCACCCGGCCCCTCAC[CT]TCGCCCTGGTCT TCGCCTCCAGCAGCATCTTCCAGGGCTCTGCGGTGTGCGTGTACAGCA	ctg13516	6	
28854 I		S	CCCCTGGGGGGCTGTTCCACAGA			
28854 P	G	S	ATGACGTGGCAGACCAGTGAGGGGTTAGCTY			
28854 P	A	S	CGCGCCGAGGTAGTGAGGGGTTAGCTGY			
28854 T	G	S	ACATCAGCTAACCCCTCACTGCTGTGGAACAGCCCCCCAGGGGCA			
28854 T	A	S	ACATCAGCTAACCCCTCACTACTGTGGAACAGCCCCCCAGGGGCA			
28854 IS	[GA]		GGTGTGGCCATGGTCACACAGGCCACTCGCTCTGCTCAGCTTCTCTCTCATTTTAGGTTATTCAGGACCGGATTTTTG GAACATCAGCTAACCCCTCACT[GA]CTGTGGAACAGCCCCCCAGGGGCACTCCTGGCCCTGTCTACTTTTTCCACAAG CCCCCAGGACTTCCCCTTCTACTACCTGCAACAGGGTATGCCCTGGG	ctg14333	11	
34663 I		A	GGTAGGAACTACACCACCCAGAATACTGTGCGCA			
34663 P	T	A	CGCGCCGAGGTGAGCGTGCCGGY			
34663 P	C	A	ATGACGTGGCAGACCGAGCGTGCCGGY			
34663 T	T	A	GGCCCCGGCACGCTCAGCGCACAGTATTCTGGGTGGTGTAGTTCCTACCAC			
34663 T	C	A	GGCCCCGGCACGCTCGGCGCACAGTATTCTGGGTGGTGTAGTTCCTACCAC			
34663 IS	[TC]		TCCTCACAGCGCGGCGGACTGCGGCGTGGTAGGAACTACACCACCCAGAATACTGTGCGC[TC]GAGCGTGCCGGGG CCTTAGACCAATCATTGCCCAGGAAAGGGGCACCTCCGTAAGTGCGC			
35518 I		A	GGGAAGAAGCAAGTTAGTAAATCGGTTTTCACCTAAGAAGTTTATGACTCC			
35518 P	G	A	ATGACGTGGCAGACGGAAGATCTTATATCCACCTTTY			
35518 P	T	A	CGCGCCGAGGTGAAGATCTTATATCCACCTTTTY			
35518 T	G	A	AGAGAAAAGGTGGATATAAGATCTTCCGAGTCATAAACTTCTTAGGTGAAAACCGATTTACTAACTTGCTTCTTCCCAT			
35518 T	T	A	AGAGAAAAGGTGGATATAAGATCTTCAGAGTCATAAACTTCTTAGGTGAAAACCGATTTACTAACTTGCTTCTTCCCAT			
35518 IS	[GT]		GTCCAGGTATGGGAAGAAGCAAGTTAGTAAATCGGTTTTCACCTAAGAAGTTTATGACTC[GT]GAAGATCTTATATCCA CCTTTTCTCTGCCTTTGGGCAGTTCTGTCTGCCAACTTCTAGAT	ctg14326	3	
35574 I		A	GCATTGCTTAGTTTCTGGGGCTGCCTTCTAGAA			
35574 P	T	A	CGCGCCGAGGTAGCTTCTAAACCCCAAAGY			
35574 P	C	A	ATGACGTGGCAGACCAGCTTCTAAACCCCAAAY			
35574 T	T	A	GAAGCTTTGGGGTTTAGAAGCTATCTAGAAGGCAGCCCCAGAAACTAAGCAATGCCA			
35574 T	C	A	GAAGCTTTGGGGTTTAGAAGCTGTCTAGAAGGCAGCCCCAGAAACTAAGCAATGCCA			
35574 IS	[TC]		GAGGTGGGGTTAATGTGATGGAAAGTTGGCATTGCTTAGTTTCTGGGGCTGCCTTCTAGA[TC]AGCTTCTAAACCCCA AAGCTTCTCTCCACAGTGCCATGCGTCTACTGAGTACTCTGCTTA	ctg15907	6	
35834 I		S	GTGTTCTGTTCTCTGTGTATGACACTGTCATTTTATCCAGTGTTGAGA			
35834 P	A	S	CGCGCCGAGGTAGGCAGAAGAGGCTTGY			
35834 P	G	S	ATGACGTGGCAGACCAGGCAGAAGAGGCTY			
35834 T	A	S	AAATCAAGCCTCTTCTGCCTACTCAACACTGGATAAAATGACAGTGTCATACACAGAGAACAGAACACTC			
35834 T	G	S	AAATCAAGCCTCTTCTGCCTGCTCAACACTGGATAAAATGACAGTGTCATACACAGAGAACAGAACACTC			
35834 IS	[AG]		TGTGTTGGGTGACATGCTCACATTTTTCCACATTTGATAAAAATCAAGCCTCTTCTGCCT[AG]CTCAACACTGGATAAA ATGACAGTGTCATACACAGAGAACAGAACACTCCTTTGGTTGCT	ctg13446	1	
36366 I		A	GCAAAGATAAAGGTATATGTGTTTCCTGTATTACGAACCTTATATAACAAATATTTA			
36366 P	C	A	ATGACGTGGCAGACCAGTGAGGGATGTTGTAAAY			
36366 P	T	A	CGCGCCGAGGTAGTGAGGGATGTTGTAAAGAY			
36366 T	C	A	GCAATCTTTACAACATCCCTCACTGAAATATTTGTTATATAAGGTTCGTAATACAGGAAACACATATACCTTTATCTTTG CCC			
36366 T	T	A	GCAATCTTTACAACATCCCTCACTAAAATATTTGTTATATAAGGTTCGTAATACAGGAAACACATATACCTTTATCTTTG CCC			
36366 IS	[CT]		TAGGGCAAAGATAAAGGTATATGTGTTTCCTGTATTACGAACCTTATATAACAAATATTT[CT]AGTGAGGGATGTTGTAA AGATTGCTACCTTCCTCTTTTGGAAAGAATTTTGGGTGAATAA	ctg13446	1	
36677 I		S	GTTCACTGCAGAAGCCTCATCTCATATTTATTTTTCCTGACCAAAAA			
36677 P	G	S	ATGACGTGGCAGACCAGAGCACTTTCCTGGY			
36677 P	A	S	CGCGCCGAGGTAGAGCACTTTCCTGGCY			
36677 T	G	S	CAGAGCCAGGAAAGTGCTCTGTTTTGGTCAGGAAAAATAAATATGAGATGAGGCTTCTGCAGTGAACCA			
36677 T	A	S	CAGAGCCAGGAAAGTGCTCTATTTTGGTCAGGAAAAATAAATATGAGATGAGGCTTCTGCAGTGAACCA			
36677 IS	[GA]		ATCAAGATCCCCAGGCCTCCCAAGAAAAGGGAACTGCACGCAGAGCCAGGAAAGTGCTCT[GA]TTTTGGTCAGGAAA AATAAATATGAGATGAGGCTTCTGCAGTGAACCAGTACTCTCATAA	ctg15907	6	
36945 I		A	GGGTTGAGCGTGGAAGAGGTATCGCCTT			
36945 P	G	A	ATGACGTGGCAGACGTGAAATCATTTTTGATTTTTTTCACY			
36945 P	A	A	CGCGCCGAGGATGAAATCATTTTTGATTTTTTTCACY			
36945 T	G	A	TTTGGTGAAAAAAATCAAAAATGATTTCACAGGCGATACCTCTTCCACGCTCAACCCAT			
36945 T	A	A	TTTGGTGAAAAAAATCAAAAATGATTTCATAGGCGATACCTCTTCCACGCTCAACCCAT			
36945 IS	[GA]		TCTGGACAGATCTTTTTATTCTCCAGTATTAATGGGTTGAGCGTGGAAGAGGTATCGCCT[GA]TGAAATCATTTTTGAT TTTTTTCACCAAATTGCTGGTTTCTCACAGGTTTTGTCCATAGT	ctg15907	6	
37201 I		S	CCAACATCACCGTGACCCCCATCACCAT			

FIGURE 129D

37201 P	G	S	CGCGCCGAGGCTGCGGCCGCGY			
37201 P	C	S	ATGACGTGGCAGACGTGCGGCCGCGY			
37201 T	G	S	GAGTCGCGGCCGCAGTGGTGATGGGGGTCACGGTGATGTTGGTC			
37201 T	C	S	GAGTCGCGGCCGCACTGGTGATGGGGGTCACGGTGATGTTGGTC			
37201 IS	[GC]		GGGGTGGTAAGGTGCCCCACGGCCACCGGCTGGAGATTGGTAAACTGAGTCGCGGCCGCA[GC]TGGTGATGGGGG TCACGGTGATGTTGGTCAAGCCGACTGAGCTCGATGGTGTGGTCACAT	ctg17333	X	
38439 I		A	AGATACTAACAGGGTCAGGGCTGGCACCAAT			
38439 P	G	A	ATGACGTGGCAGACGGAGGCCTGATGATTCY			
38439 P	C	A	CGCGCCGAGGCGAGGCCTGATGATTCY			
38439 T	G	A	ATGGGAATCATCAGGCCTCCTTGGTGCCAGCCCTGACCCTGTTAGTATCTTG			
38439 T	C	A	ATGGGAATCATCAGGCCTCGTTGGTGCCAGCCCTGACCCTGTTAGTATCTTG			
38439 IS	[GC]		AATGAGATGCAGGGAGGTGAAGTGACAGCAAGATACTAACAGGGTCAGGGCTGGCACCAA[GC]GAGGCCTGATGATT CCCATCAGGATACCCTTTCCCCTAATCATCCTGTCTCACTCTTTCT	ctg15907	6	
38536 I		A	CCTGGGGAGGGAACGAGACAGGGCA			
38536 P	C	A	ATGACGTGGCAGACCGTCAGCCAGGCCY			
38536 P	T	A	CGCGCCGAGGTGTCAGCCAGGCCY			
38536 T	C	A	ACCAGGCCTGGCTGACGGCCCTGTCTCGTTCCCTCCCCAGGAT			
38536 T	T	A	ACCAGGCCTGGCTGACAGCCCTGTCTCGTTCCCTCCCCAGGAT			
38536 IS	[CT]		CTGTCTGCGGAAGCCTTCCAGCTGAGAGAGGCCAATCCTGGGGAGGGAACGAGACAGGGC[CT]GTCAGCCAGGCCT GGTCAGCGGCTATGAGAGGTATGGGGCCAGGGGCGGAGGGGCAGGCA	ctg22fin4	22	
38740 I		A	GAGCCAGGCGTGCTGCCCTCATA			
38740 P	T	A	CGCGCCGAGGTCCGCCCGGAACY			
38740 P	C	A	ATGACGTGGCAGACCCCGCCCGGAACY			
38740 T	T	A	TGTAGTTCCGGGCGGAATGAGGGCAGCACGCCTGGCTCCG			
38740 T	C	A	TGTAGTTCCGGGCGGGATGAGGGCAGCACGCCTGGCTCCG			
38740 IS	[TC]		TTGGCCAGCTCGGAGTCGCGCATGAGTAAGAAGGAGCGGAGCCAGGCGTGCTGCCCTCAT[TC]CCGCCCGGAACTA CAATTCCCAGAAGCGCCTTGGCATCGCCAGACTCCGGTTCTCCGCAG	ctg22fin4	22	
38798 I		S	GGCTACTGAGATATACTCAAAATTAAAGGGGCAAGACAAGCAAAGACA			
38798 P	G	S	ATGACGTGGCAGACCACCTCAGCTAGTGTAGAY			
38798 P	A	S	CGCGCCGAGGTACCTCAGCTAGTGTAGATTAGY			
38798 T	G	S	ATGCCTAATCTACACTAGCTGAGGTGGTCTTTGCTTGTCTTGCCCCTTTAATTTTGAGTATATCTCAGTAGCCAT			
38798 T	A	S	ATGCCTAATCTACACTAGCTGAGGTAGTCTTTGCTTGTCTTGCCCCTTTAATTTTGAGTATATCTCAGTAGCCAT			
38798 IS	[GA]		GGTCCAGCCATTTTGGCCACTACCTTGTTTTTCTCATGCCTAATCTACACTAGCTGAGGT[GA]GTCTTTGCTTGTCTTG CCCCTTTAATTTTGAGTATATCTCAGTAGCCATGTATGATTTTC	ctg22fin6	22	
39168 I		S	GAAGAGCGTAACAAAGGTCAAAGTCATCAGACCTAGTCTAGTTTTCTAA			
39168 P	A	S	CGCGCCGAGGTAGGATTGAAAATTACCAATTATTCTY			
39168 P	G	S	ATGACGTGGCAGACCAGGATTGAAAATTACCAATTATTCY			
39168 T	A	S	CTTGAGAATAATTGGTAATTTTCAATCCTATAGAAAACTAGACTAGGTCTGATGACTTTGACCTTTGTTACGCTCTTCTT			
39168 T	G	S	CTTGAGAATAATTGGTAATTTTCAATCCTGTAGAAAACTAGACTAGGTCTGATGACTTTGACCTTTGTTACGCTCTTCTT			
39168 IS	[AG]		GATGGAAAACATTGGTCGCTAATAGCAGAAACTTGAGAATAATTGGTAATTTTCAATCCT[AG]TAGAAAACTAGACTAG GTCTGATGACTTTGACCTTTGTTACGCTCTTCTTCCAAATTTTC	ctg15907	6	
39464 I		A	AATTGAAAGAGGCATAAATCTTATCTTCTCGCAACCCTAT			
39464 P	G	A	ATGACGTGGCAGACGAAGATCAGCTTCTTGTGAAY			
39464 P	C	A	CGCGCCGAGGCAAGATCAGCTTCTTGTGAY			
39464 T	G	A	CTTCTTCACAAGAAGCTGATCTTCTAGGGTTGCGAGAAGATAAGATTTATGCCTCTTTCAATTCC			
39464 T	C	A	CTTCTTCACAAGAAGCTGATCTTGTAGGGTTGCGAGAAGATAAGATTTATGCCTCTTTCAATTCC			
39464 IS	[GC]		ATGTTGATGAGAGAATAAAGGAATTGAAAGAGGCATAAATCTTATCTTCTCGCAACCCTA[GC]AAGATCAGCTTCTTGT GAAGAAGGGATTATACTTCTGTAATTAACTGCTTTGCAGCTCC	ctg25099	7	
39853 I		A	GCTCTTGAACAAATCTGGTACACAGGGAAGCTAAGACACTTAGA			
39853 P	C	A	ATGACGTGGCAGACCCACAACCACATAGCAAY			
39853 P	T	A	CGCGCCGAGGTCACAACCACATAGCAAGY			
39853 T	C	A	CTTACTTGCTATGTGGTTGTGGCTAAGTGTCTTAGCTTCCCTGTGTACCAGATTTGTTCAAGAGCAG			
39853 T	T	A	CTTACTTGCTATGTGGTTGTGACTAAGTGTCTTAGCTTCCCTGTGTACCAGATTTGTTCAAGAGCAG			
39853 IS	[CT]		TCCTTCCCTACTTAGCTGCTCTTGAACAAATCTGGTACACAGGGAAGCTAAGACACTTAG[CT]CACAACCACATAGCAA GTAAGGCATGGTAGAGTTGTTGGTGGAATTCAGAATGCTATTGC	ctg15064	7	
40080 I		S	TGCATTTCTCCCTAGCTTGTAGGGCCTTTTACTTTCTTTTGATAT			
40080 P	C	S	ATGACGTGGCAGACGGATCCTTGCTACTACCCY			
40080 P	T	S	CGCGCCGAGGAGATCCTTGCTACTACCCY			
40080 T	C	S	CACTGGGTAGTAGCAAGGATCCTATCAAAAGAAAGTAAAAGGCCCTACAAGCTAGGGAGAAATGCAAA			
40080 T	T	S	CACTGGGTAGTAGCAAGGATCTTATCAAAAGAAAGTAAAAGGCCCTACAAGCTAGGGAGAAATGCAAA			
40080 IS	[CT]		AAAGAACAATAACACCACAGATATGTGCTTGAAGACTTCCACTGGGTAGTAGCAAGGATC[CT]TATCAAAAGAAAGTAA AAGGCCCTACAAGCTAGGGAGAAATGCAAAGCTTTAGAAGCCAA	ctg15064	7	
40224 I		S	ATCCCCCAACCCCCACCCCT			
40224 P	C	S	ATGACGTGGCAGACGTACTCTCCACCAAGGAAY			
40224 P	T	S	CGCGCCGAGGATACTCTCCACCAAGGAATY			
40224 T	C	S	CTCTATTCCTTGGTGGAGAGTACGGGGTGGGGGTTGGGGGATGA			
40224 T	T	S	CTCTATTCCTTGGTGGAGAGTATGGGGTGGGGGTTGGGGGATGA			
40224 IS	[CT]		CTTAATCCTTAATTCCTTGGTCTTAGTACTTTAGATTTCTCTATTCCTTGGTGGAGAGTA[CT]GGGGTGGGGGTTGGG GGATGAATTTTATGGCTGCAGGAAAATTAGAGCTTAAAATTGCCA	ctg15665	20	
40592 I		S	CCCAGATCAACCAGAAAAATAGAGAAATTGCTATCCCACTGACAA			
40592 P	A	S	CGCGCCGAGGTTGAGTATGAGCACACACY			
40592 P	G	S	ATGACGTGGCAGACCTGAGTATGAGCACACACY			
40592 T	A	S	GCAAGTGTGTGCTCATACTCAATGTCAGTGGGATAGCAATTTCTCTATTTTTCTGGTTGATCTGGGGA			
40592 T	G	S	GCAAGTGTGTGCTCATACTCAGTGTCAGTGGGATAGCAATTTCTCTATTTTTCTGGTTGATCTGGGGA			
40592 IS	[AG]		CAAAGAGATAAAAGCATCAGGGCTGGCTTACACACCTTCGCAAGTGTGTGCTCATACTCA[AG]TGTCAGTGGGATAGC AATTTCTCTATTTTTCTGGTTGATCTGGGGAAGACCTGGTGGGAA	ctg14391	11	
40722 I		S	GAATGGGGGCAGGGGAAATTTCCAGCAGT			
40722 P	G	S	CGCGCCGAGGCTCTAATAAAGCTTTCCTCTAGAAY			
40722 P	C	S	ATGACGTGGCAGACGTCTAATAAAGCTTTCCTCTAGAY			
40722 T	G	S	GAGATTCTAGAGGAAAGCTTTATTAGAGCTGCTGGAAATTTCCCCTGCCCCCATTCCC			
40722 T	C	S	GAGATTCTAGAGGAAAGCTTTATTAGACCTGCTGGAAATTTCCCCTGCCCCCATTCCC			
40722 IS	[GC]		TTAAAGAGAATTTTATTTCTGGGTAAAACTTGAGAGATTCTAGAGGAAAGCTTTATTAGA[GC]CTGCTGGAAATTTCCC CTGCCCCCATTCCCAACTCCTGGTTGGGCCAGGCATGCCCAAGT	ctg22fin4	22	
40776 I		S	AGACATGTTTCTTCTGGCCCACATTTTTACTGAAGGTATAACACAAT			
40776 P	G	S	CGCGCCGAGGCAGAAGTCTGAAGCCATGY			
40776 P	C	S	ATGACGTGGCAGACGAGAAGTCTGAAGCCATGY			
40776 T	G	S	TTTGCATGGCTTCAGACTTCTGTTGTGTTATACCTTCAGTAAAAATGTGGGCCAGAAGAAACATGTCTTT			

FIGURE 129D

40776 T	C	S	TTTGCATGGCTTCAGACTTCTCTTGTGTTATACCTTCAGTAAAAATGTGGGCCAGAAGAAACATGTCTTT			
40776 IS	[GC]		GGACAATAGGAGAGAAGATGTGGAATTGAGACTGAGGCCTTTGCATGGCTTCAGACTTCT[GC]TTGTGTTATACCTTC AGTAAAAATGTGGGCCAGAAGAAACATGTCTTTGTTGACAAAGAG	ctg14072	17	
41684 I		S	CCACACTCTGTTTAGCACTAATGTGCCCTACTTGAAACCC			
41684 P	A	S	CGCGCCGAGGTCGTACCCTCCCACAY			
41684 P	T	S	ATGACGTGGCAGACACGTACCCTCCCACAY			
41684 T	A	S	AGAGTGTGGGAGGGTACGAGGTTTCAAGTAGGGCACATTAGTGCTAAACAGAGTGTGGGA			
41684 T	T	S	AGAGTGTGGGAGGGTACGTGGTTTCAAGTAGGGCACATTAGTGCTAAACAGAGTGTGGGA			
41684 IS	[AT]		GGTAGGGTACAAGGTTTCAAATAGGGCACATTAGTGCTAAACAGAGTGTGGGAGGGTACG[AT]GGTTTCAAGTAGGG CACATTAGTGCTAAACAGAGTGTGGGAGGGTACAAGGTTTCAAATA	ctg15140	12	
41827 I		S	CACAAGGATGAAACACCAGCTTCCTGACACACCT			
41827 P	G	S	CGCGCCGAGGCCTTGGACTCCTGGCY			
41827 P	C	S	ATGACGTGGCAGACGCTTGGACTCCTGGCY			
41827 T	G	S	TGGAGCCAGGAGTCCAAGGGGTGTGTCAGGAAGCTGGTGTTTCATCCTTGTGTG			
41827 T	C	S	TGGAGCCAGGAGTCCAAGCGGTGTGTCAGGAAGCTGGTGTTTCATCCTTGTGTG			
41827 IS	[GC]		AAACCATTTAGCGTCTTAAGGGCTCATTTCTGAGGCCAGCACTGGAGCCAGGAGTCCAAG[GC]GGTGTGTCAGGAAG CTGGTGTTTCATCCTTGTGTGCCCAGGGTCCCAGTAAGACCGGAGA	MULTIPLE	MULTIPLE	
41882 I		A	GGCTCAAGGGCTCCTAGACAGTGGGGAC			
41882 P	T	A	CGCGCCGAGGTGAAAATGAGCCAACACCY			
41882 P	A	A	ATGACGTGGCAGACAGAAAATGAGCCAACACCY			
41882 T	T	A	GCATGGTGTTGGCTCATTTTCATCCCCACTGTCTAGGAGCCCTTGAGCCTT			
41882 T	A	A	GCATGGTGTTGGCTCATTTTCTTCCCCACTGTCTAGGAGCCCTTGAGCCTT			
41882 IS	[TA]		GGAAGAGACTGCCCATAGTGAACCAAAGCTCAAGGCTCAAGGGCTCCTAGACAGTGGGGA[TA]GAAAATGAGCCAAC ACCATGCACTGGACGTTTGCCATTGAAAGCAACAGGCTGAACTGGG	ctg15330	9	
43175 I		A	GAGGGGCAGGCCTGTCCCACGT			
43175 P	A	A	CGCGCCGAGGACAGCGTCCCCTGY			
43175 P	C	A	ATGACGTGGCAGACCCAGCGTCCCCTGY			
43175 T	A	A	GCCGCAGGGGACGCTGTCGTGGGACAGGCCTGCCCCTCAA			
43175 T	C	A	GCCGCAGGGGACGCTGGCGTGGGACAGGCCTGCCCCTCAA			
43175 IS	[AC]		CACCCCCAGGGTTTCAGAGTTCATCTAGGTCTGGAGTTTGAGGGGCAGGCCTGTCCCACG[AC]CAGCGTCCCCTGCG GCCGCCCACTCTAATGCCATGTCCCTTCTCTTGCAGTACCAGCTGA	ctg13740	5	
43223 I		S	GCCCCTCCTGGGAGCTGGGCTC			
43223 P	C	S	ATGACGTGGCAGACGGACTCGGTCCTCAGY			
43223 P	A	S	CGCGCCGAGGTGACTCGGTCCTCAGAY			
43223 T	C	S	AGGATCTGAGGACCGAGTCCAGCCCAGCTCCCAGGAGGGGCCG			
43223 T	A	S	AGGATCTGAGGACCGAGTCAAGCCCAGCTCCCAGGAGGGGCCG			
43223 IS	[CA]		ACTTGCAAGGTCCCTTGCCCCGCCCAGAGCTGAGCCTTCCGAGGATCTGAGGACCGAGTC[CA]AGCCCAGCTCCCAG GAGGGGCCGGGATCCTGGGGCAGGGAATAAGGGGCAGGGGCTGGCT	ctg15064	7	
43403 I		S	TGAGCGGACGCAGGGTTCCCAGAAAAGT			
43403 P	T	S	CGCGCCGAGGAGCGCGCGTCCY			
43403 P	C	S	ATGACGTGGCAGACGGCGCGCGTCCY			
43403 T	T	S	CAGCGGACGCGCGCTCTTTTCTGGGAACCCTGCGTCCGCTCAGC			
43403 T	C	S	CAGCGGACGCGCGCCCTTTTCTGGGAACCCTGCGTCCGCTCAGC			
43403 IS	[TC]		AACTCTTGAGTTCCGGCGTGCCCCAACCTCTGTTTCCAAATTTTTCCAGCGGACGCGCGC[TC]CTTTTCTGGGAACCC TGCGTCCGCTCAGCGGCGCTCATCCCAGTGTCTAAGGCGCTCCC	ctg15064	7	
43762 I		S	ACTGAGTGGAGCGAGGCCCTGACGT			
43762 P	G	S	CGCGCCGAGGCGCGGCCAAGAGY			
43762 P	C	S	ATGACGTGGCAGACGGCGGCCAAGAGCY			
43762 T	G	S	AGCTGCTCTTGGCCGCCGTCAGGGCCTCGCTCCACTCAGTCC			
43762 T	C	S	AGCTGCTCTTGGCCGCCCGTCAGGGCCTCGCTCCACTCAGTCC			
43762 IS	[GC]		GAGGAGCTCCTCAAGAGCCGCTGCTCCTCCATCGGGATTCAGGTAGCTGCTCTTGGCCGC[GC]CGTCAGGGCCTCG CTCCACTCAGTCCTGCCAATAGCCTAGAATAAGCCAAAACCCAACCA	ctg18433	19	
43942 I		S	GGTGGGGCGCTCTTGGCAGGGT			
43942 P	T	S	CGCGCCGAGGACAGTGGGAGCCTTGY			
43942 P	C	S	ATGACGTGGCAGACGCAGTGGGAGCCTTY			
43942 T	T	S	TCCCCAAGGCTCCCACTGTCCCTGCCAAGAGCGCCCCACCCC			
43942 T	C	S	TCCCCAAGGCTCCCACTGCCCCTGCCAAGAGCGCCCCACCCC			
43942 IS	[TC]		GGGTCTCAGGGCTTGCATCGCCCCCCTGCTGGGCTGGGACTCTCCCCAAGGCTCCCACTG[TC]CCCTGCCAAGAGC GCCCCACCCCTCCCGCTCGCCTCTGTCTCGGGTGTCCTGAGCTCTCC	ctg19247	7	
44011 I		A	TCTCAATGATAAGGGCTGTACTTTCCAATACAAGATTAATTTGGT			
44011 P	A	A	CGCGCCGAGGACATCATGATCTATTAAAGAAAAGCY			
44011 P	G	A	ATGACGTGGCAGACGCATCATGATCTATTAAAGAAAAGY			
44011 T	A	A	TATGGCTTTTCTTTAATAGATCATGATGTCCAAATTAATCTTGTATTGGAAAGTACAGCCCTTATCATTGAGAAT			
44011 T	G	A	TATGGCTTTTCTTTAATAGATCATGATGCCCAAATTAATCTTGTATTGGAAAGTACAGCCCTTATCATTGAGAAT			
44011 IS	[AG]		CGGTATTTAAGGGTATTCTCAATGATAAGGGCTGTACTTTCCAATACAAGATTAATTTGG[AG]CATCATGATCTATTAAA GAAAAGCCATACACAGCAGAATTATTATAATTTCTAAGTTACT	ctg_na	NA	
44083 I		S	GCACAGATGCCCCCTCAGCCCCTT			
44083 P	G	S	CGCGCCGAGGCTGGGTGACCCTCTGY			
44083 P	C	S	ATGACGTGGCAGACGTGGGTGACCCTCTGY			
44083 T	G	S	CATCCAGAGGGTCACCCAGAGGGGCTGAGGGGGCATCTGTGCAG			
44083 T	C	S	CATCCAGAGGGTCACCCACAGGGGCTGAGGGGGCATCTGTGCAG			
44083 IS	[GC]		GAGGGAGGGTGCTGGCCAGGGAGACCCCGAGAGGCCAGCAGGCATCCAGAGGGTCACCCA[GC]AGGGGCTGAGGG GGCATCTGTGCAGACACCGGTGATCAGGGCTGCGTCATCTCAGGGCCC	ctg14947	16	
44277 I		A	GTACTTGATAAATAGTATTGGTTATAACTAACAAACCTGAACAAACTGCTTTT			
44277 P	C	A	ATGACGTGGCAGACCCTTACCCACAAGGAAAAAY			
44277 P	A	A	CGCGCCGAGGACTTACCCACAAGGAAAAAGY			
44277 T	C	A	CTTTCTTTTTCCTTGTGGGTAAGGAAAGCAGTTTGTTCAGGTTTGTTAGTTATAACCAATACTATTTATCAAGTACTT			
44277 T	A	A	CTTTCTTTTTCCTTGTGGGTAAGTAAAGCAGTTTGTTCAGGTTTGTTAGTTATAACCAATACTATTTATCAAGTACTT			
44277 IS	[CA]		GGTAAGAAGTACTTGATAAATAGTATTGGTTATAACTAACAAACCTGAACAAACTGCTTT[CA]CTTACCCACAAGGAAAA AGAAAGTATTGGTCTTTGGTTATTCACTAAGGCAAGTGGATGA			
44616 I		S	GCTGGAGAGACACCGAGTGAGCCTTCCC			
44616 P	A	S	CGCGCCGAGGTGCAATTGACTAATGTGTTCY			
44616 P	C	S	ATGACGTGGCAGACGGCAATTGACTAATGTGTTCY			
44616 T	A	S	TTAGGAACACATTAGTCAATTGCAGGAAGGCTCACTCGGTGTCTCTCCAGCGT			
44616 T	C	S	TTAGGAACACATTAGTCAATTGCCGGAAGGCTCACTCGGTGTCTCTCCAGCGT			
44616 IS	[AC]		CTGCCAACCTTCATGCACAGGTGGGAAGAACCTATAATTAGGAACACATTAGTCAATTGC[AC]GGAAGGCTCACTCGG TGTCTCTCCAGCGTGGCCGCCTGAATCTGGACAGACCCTTGTTG	ctg15842	19	
44697 I		A	CACATGGAACTATATGAACAGATGCCATTAACAGGTTTTTGCTTTTACATT			
44697 P	G	A	ATGACGTGGCAGACGTCATCTTTCCCATTTGAGCY			
44697 P	A	A	CGCGCCGAGGATCATCTTTCCCATTTGAGCY			
44697 T	G	A	TAATGCTCAAATGGGAAAGATGACATGTAAAAGCAAAAACCTGTTAATGGCATCTGTTCATATAGTTCCATGTGCC			
44697 T	A	A	TAATGCTCAAATGGGAAAGATGATATGTAAAAGCAAAAACCTGTTAATGGCATCTGTTCATATAGTTCCATGTGCC			

FIGURE 129D

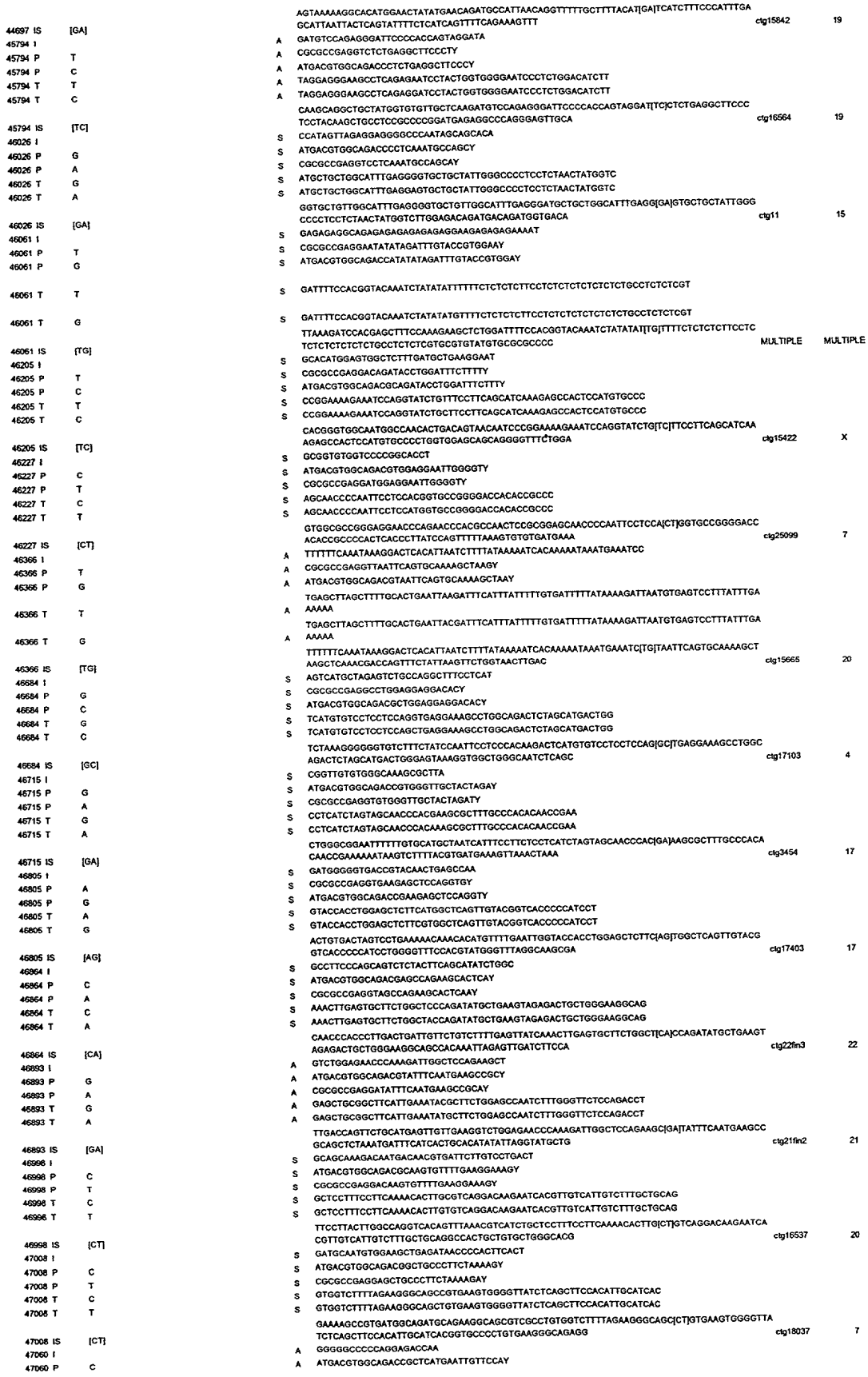

AGTAAAAAGGCACATGGAACTATATGAACAGATGCCATTAACAGGTTTTTGCTTTTACAT[GA]TCATCTTTCCCATTTGA
GCATTAATTACTCAGTATTTTCTCATCAGTTTTCAGAAAGTTT ctg15642 19
46697 IS [GA]
45794 I
A GATGTCCAGAGGGATTCCCCACCAGTAGGATA
45794 P T
A CGCGCCGAGGTCTCTGAGGCTTCCCTY
45794 P C
A ATGACGTGGCAGACCCTCTGAGGCTTCCCY
45794 T T
A TAGGAGGGAAGCCTCAGAGAATCCTACTGGTGGGGAATCCCTCTGGACATCTT
45794 T C
A TAGGAGGGAAGCCTCAGAGGATCCTACTGGTGGGGAATCCCTCTGGACATCTT
CAAGCAGGCTGCTATGGTGTGTTGCTCAAGATGTCCAGAGGGATTCCCCACCAGTAGGAT[TC]CTCTGAGGCTTCCC
TCCTACAAGCTGCCTCCGCCCCGGATGAGAGGCCCAGGGAGTTGCA ctg16564 19
45794 IS [TC]
46026 I
S CCATAGTTAGAGGAGGGGCCCAATAGCAGCACA
46026 P G
S ATGACGTGGCAGACCCCTCAAATGCCAGCY
46026 P A
S CGCGCCGAGGTCCTCAAATGCCAGCAY
46026 T G
S ATGCTGCTGGCATTTGAGGGGTGCTGCTATTGGGCCCCTCCTCTAACTATGGTC
46026 T A
S ATGCTGCTGGCATTTGAGGAGTGCTGCTATTGGGCCCCTCCTCTAACTATGGTC
GGTGCTGTTGGCATTTGAGGGGTGCTGTTGGCATTTGAGGGATGCTGCTGGCATTTGAGG[GA]GTGCTGCTATTGGG
CCCCTCCTCTAACTATGGTCTTGGAGACAGATGACAGATGGTGACA ctg11 15
46026 IS [GA]
46061 I
S GAGAGAGGCAGAGAGAGAGAGAGGAAGAGAGAGAAAAT
46061 P T
S CGCGCCGAGGAATATATAGATTTGTACCGTGGAAY
46061 P G
S ATGACGTGGCAGACCATATATAGATTTGTACCGTGGAY
46061 T T
S GATTTTCCACGGTACAAATCTATATATTTTTTCTCTCTCTTCCTCTCTCTCTCTCTCTCTCTGCCTCTCTCGT
46061 T G
S GATTTTCCACGGTACAAATCTATATATGTTTTCTCTCTCTTCCTCTCTCTCTCTCTCTCTGCCTCTCTCGT
TTAAAGATCCACGAGCTTTCCAAAGAAGCTCTGGATTTTCCACGGTACAAATCTATATAT[TG]TTTTCTCTCTCTTCCTC
TCTCTCTCTCTCTGCCTCTCTCGTGCGTGTATGTGCGCGCCCC MULTIPLE MULTIPLE
46061 IS [TG]
46205 I
S GCACATGGAGTGGCTCTTTGATGCTGAAGGAAT
46205 P T
S CGCGCCGAGGACAGATACCTGGATTTCTTTTY
46205 P C
S ATGACGTGGCAGACGCAGATACCTGGATTTCTTTY
46205 T T
S CCGGAAAAGAAATCCAGGTATCTGTTTCCTTCAGCATCAAAGAGCCACTCCATGTGCCC
46205 T C
S CCGGAAAAGAAATCCAGGTATCTGCTTCCTTCAGCATCAAAGAGCCACTCCATGTGCCC
CACGGGTGGCAATGGCCAACACTGACAGTAACAATCCCGGAAAAGAAATCCAGGTATCTG[TC]TTCCTTCAGCATCAA
AGAGCCACTCCATGTGCCCCTGGTGGAGCAGCAGGGGTTTCTGGA ctg15422 X
46205 IS [TC]
46227 I
S GCGGTGTGGTCCCCGGCACCT
46227 P C
S ATGACGTGGCAGACGTGGAGGAATTGGGGTY
46227 P T
S CGCGCCGAGGATGGAGGAATTGGGGTY
46227 T C
S AGCAACCCCAATTCCTCCACGGTGCCGGGGACCACACCGCCC
46227 T T
S AGCAACCCCAATTCCTCCATGGTGCCGGGGACCACACCGCCC
GTGGCGCCGGGAGGAACCCAGAACCCACGCCAACTCCGCGGAGCAACCCCAATTCCTCCA[CT]GGTGCCGGGGACC
ACACCGCCCCACTCACCCTTATCCAGTTTTTAAAGTGTGTGATGAAA ctg25099 7
46227 IS [CT]
46366 I
A TTTTTTCAAATAAAGGACTCACATTAATCTTTTATAAAAATCACAAAAATAAATGAAATCC
46366 P T
A CGCGCCGAGGTTAATTCAGTGCAAAAGCTAAGY
46366 P G
A ATGACGTGGCAGACGTAATTCAGTGCAAAAGCTAAY
TGAGCTTAGCTTTTGCACTGAATTAAGATTTCATTTATTTTTGTGATTTTTATAAAAGATTAATGTGAGTCCTTTATTTGA
46366 T T
A AAAAA
TGAGCTTAGCTTTTGCACTGAATTACGATTTCATTTATTTTTGTGATTTTTATAAAAGATTAATGTGAGTCCTTTATTTGA
46366 T G
A AAAAA
TTTTTTCAAATAAAGGACTCACATTAATCTTTTATAAAAATCACAAAAATAAATGAAATC[TG]TAATTCAGTGCAAAAGCT
AAGCTCAAACGACCAGTTTCTATTAAGTTCTGGTAACTTGAC ctg15665 20
46366 IS [TG]
46684 I
S AGTCATGCTAGAGTCTGCCAGGCTTTCCTCAT
46684 P G
S CGCGCCGAGGCCTGGAGGAGGACACY
46684 P C
S ATGACGTGGCAGACGCTGGAGGAGGACACY
46684 T G
S TCATGTGTCCTCCTCCAGGTGAGGAAAGCCTGGCAGACTCTAGCATGACTGG
46684 T C
S TCATGTGTCCTCCTCCAGCTGAGGAAAGCCTGGCAGACTCTAGCATGACTGG
TCTAAAGGGGGGTGTCTTTCTATCCAATTCCTCCCACAAGACTCATGTGTCCTCCTCCAG[GC]TGAGGAAAGCCTGGC
AGACTCTAGCATGACTGGGAGTAAAGGTGGCTGGGCAATCTCAGC ctg17103 4
46684 IS [GC]
46715 I
S CGGTTGTGTGGGCAAAGCGCTTA
46715 P G
S ATGACGTGGCAGACCGTGGGTTGCTACTAGAY
46715 P A
S CGCGCCGAGGTGTGGGTTGCTACTAGATY
46715 T G
S CCTCATCTAGTAGCAACCCACGAAGCGCTTTGCCCACACAACCGAA
46715 T A
S CCTCATCTAGTAGCAACCCACAAAGCGCTTTGCCCACACAACCGAA
CTGGGCGGAATTTTTTGTGCATGCTAATCATTTCCTTCTCCTCATCTAGTAGCAACCCAC[GA]AAGCGCTTTGCCCACA
CAACCGAAAAAATAAGTCTTTTACGTGATGAAAGTTAAACTAAA ctg3454 17
46715 IS [GA]
46805 I
S GATGGGGGTGACCGTACAACTGAGCCAA
46805 P A
S CGCGCCGAGGTGAAGAGCTCCAGGTGY
46805 P G
S ATGACGTGGCAGACCGAAGAGCTCCAGGTY
46805 T A
S GTACCACCTGGAGCTCTTCATGGCTCAGTTGTACGGTCACCCCCATCCT
46805 T G
S GTACCACCTGGAGCTCTTCGTGGCTCAGTTGTACGGTCACCCCCATCCT
ACTGTGACTAGTCCTGAAAAACAAACACATGTTTTGAATTGGTACCACCTGGAGCTCTTC[AG]TGGCTCAGTTGTACG
GTCACCCCCATCCTGGGGTTTCCACGTATGGGTTTAGGCAAGCGA ctg17403 17
46805 IS [AG]
46864 I
S GCCTTCCCAGCAGTCTCTACTTCAGCATATCTGGC
46864 P C
S ATGACGTGGCAGACGAGCCAGAAGCACTCAY
46864 P A
S CGCGCCGAGGTAGCCAGAAGCACTCAAY
46864 T C
S AAACTTGAGTGCTTCTGGCTCCCAGATATGCTGAAGTAGAGACTGCTGGGAAGGCAG
46864 T A
S AAACTTGAGTGCTTCTGGCTACCAGATATGCTGAAGTAGAGACTGCTGGGAAGGCAG
CAACCCACCCTTGACTGATTGTTCTGTCTTTTGAGTTATCAAACTTGAGTGCTTCTGGCT[CA]CCAGATATGCTGAAGT
AGAGACTGCTGGGAAGGCAGCCACAAATTAGAGTTGATCTTCCA ctg22fin3 22
46864 IS [CA]
46893 I
A GTCTGGAGAACCCAAAGATTGGCTCCAGAAGCT
46893 P G
A ATGACGTGGCAGACGTATTTCAATGAAGCCGCY
46893 P A
A CGCGCCGAGGATATTTCAATGAAGCCGCAY
46893 T G
A GAGCTGCGGCTTCATTGAAATACGCTTCTGGAGCCAATCTTTGGGTTCTCCAGACCT
46893 T A
A GAGCTGCGGCTTCATTGAAATATGCTTCTGGAGCCAATCTTTGGGTTCTCCAGACCT
TTGACCAGTTCTGCATGAGTTGTTGAAGGTCTGGAGAACCCAAAGATTGGCTCCAGAAGC[GA]TATTTCAATGAAGCC
GCAGCTCTAAATGATTTCATCACTGCACATATATTAGGTATGCTG ctg21fin2 21
46893 IS [GA]
46998 I
S GCAGCAAAGACAATGACAACGTGATTCTTGTCCTGACT
46998 P C
S ATGACGTGGCAGACGCAAGTGTTTTGAAGGAAAGY
46998 P T
S CGCGCCGAGGACAAGTGTTTTGAAGGAAAGY
46998 T C
S GCTCCTTTCCTTCAAAACACTTGCGTCAGGACAAGAATCACGTTGTCATTGTCTTTGCTGCAG
46998 T T
S GCTCCTTTCCTTCAAAACACTTGTGTCAGGACAAGAATCACGTTGTCATTGTCTTTGCTGCAG
TTCCTTACTTGGCCAGGTCACAGTTTAAACGTCATCTGCTCCTTTCCTTCAAAACACTTG[CT]GTCAGGACAAGAATCA
CGTTGTCATTGTCTTTGCTGCAGGCCACTGCTGTGCTGGGCACG ctg16537 20
46998 IS [CT]
47008 I
S GATGCAATGTGGAAGCTGAGATAACCCCACTTCACT
47008 P C
S ATGACGTGGCAGACGGCTGCCCTTCTAAAAGY
47008 P T
S CGCGCCGAGGAGCTGCCCTTCTAAAAGAY
47008 T C
S GTGGTCTTTTAGAAGGGCAGCCGTGAAGTGGGGTTATCTCAGCTTCCACATTGCATCAC
47008 T T
S GTGGTCTTTTAGAAGGGCAGCTGTGAAGTGGGGTTATCTCAGCTTCCACATTGCATCAC
GAAAAGCCGTGATGGCAGATGCAGAAGGCAGCGTCGCCTGTGGTCTTTTAGAAGGGCAGC[CT]GTGAAGTGGGGTTA
TCTCAGCTTCCACATTGCATCACGGTGCCCCTGTGAAGGGCAGAGG ctg18037 7
47008 IS [CT]
47060 I
A GGGGGCCCCCAGGAGACCAA
47060 P C
A ATGACGTGGCAGACCGCTCATGAATTGTTCCAY

FIGURE 129D

47060 P	T	A	CGCGCCGAGGTGCTCATGAATTGTTCCAY				
47060 T	C	A	CAAGTGGAACAATTCATGAGCGTGGTCTCCTGGGGGCCCCCGA				
47060 T	T	A	CAAGTGGAACAATTCATGAGCATGGTCTCCTGGGGGCCCCCGA				
47060 IS	[CT]		TCCCCTGTTTCCCAAGATTTCCCAAACAGATGGCCAAGATCGGGGGGCCCCCAGGAGACCA[CT]GCTCATGAATTGTTC CACTTGAACACAACATTGTTTTTTATGGAACTGGGCTGGGGAGTC	ctg_na	NA		
47126 I		S	ACCCTTGTTTTGCGTGTGGGAGGCAGAA				
47126 P	G	S	ATGACGTGGCAGACCGAGACAATCATTTATTGCGY				
47126 P	A	S	CGCGCCGAGGTGAGACAATCATTTATTGCGY				
47126 T	G	S	TCTCCGCAATAAATGATTGTCTCGTCTGCCTCCCACACGCAAAACAAGGGTGG				
47126 T	A	S	TCTCCGCAATAAATGATTGTCTCATCTGCCTCCCACACGCAAAACAAGGGTGG				
47126 IS	[GA]		TACAGCTTTTGTAAAGGCCAATAGAGCATACCTTTTCTCTCCGCAATAAATGATTGTCTC[GA]TCTGCCTCCCACACGC AAAACAAGGGTGGATTTCTGATTTTTCAGACTTTACACTTCAGC	ctg24	15		
47183 I		A	GGATTTCTTCTGCCATTGTTTTAAAGATGAGCCATTTCCCCA				
47183 P	T	A	CGCGCCGAGGTGTGCTCTCTGGGGY				
47183 P	C	A	ATGACGTGGCAGACCGTGCTCTCTGGGGY				
47183 T	T	A	GGCACCCCAGAGAGCACAGGGGAAATGGCTCATCTTTAAAACAATGGCAGAAGAAATCCAG				
47183 T	C	A	GGCACCCCAGAGAGCACGGGGGAAATGGCTCATCTTTAAAACAATGGCAGAAGAAATCCAG				
47183 IS	[TC]		AGGAAAAGTGACCTTGGCTGGATTTCTTCTGCCATTGTTTTAAAGATGAGCCATTTCCCC[TC]GTGCTCTCTGGGGTG CCGTTCTGGTCTCCACATTGTGGAGTGGCAAGTGCTGCTGCCAGA	ctg16279	17		
47229 I		S	TGGGAGGATGAGCGAGTGGGGGCT				
47229 P	T	S	CGCGCCGAGGACTGAGAGCTGCCCY				
47229 P	C	S	ATGACGTGGCAGACGCTGAGAGCTGCCCY				
47229 T	T	S	GTGAGGGCAGCTCTCAGTGCCCCCACTCGCTCATCCTCCCAGA				
47229 T	C	S	GTGAGGGCAGCTCTCAGCGCCCCCACTCGCTCATCCTCCCAGA				
47229 IS	[TC]		GACCTGGCTGATCTGTGGACAGAGGGGGTCAGAGGCAACCAGGGTGAGGGCAGCTCTCAG[TC]GCCCCCACTCGCT CATCCTCCCAGAGCCCTGCACACCCAGGGACCAGCCTGGGCACCTCA	ctg3235	11		
47290 I		A	ACCCCAGGACAGGAGGCTTCACCCT				
47290 P	A	A	CGCGCCGAGGACTACTTTCCTTCACACCTY				
47290 P	G	A	ATGACGTGGCAGACGCTACTTTCCTTCACACCY				
47290 T	A	A	GAGCAGGTGTGAAGGAAAGTAGTGGGTGAAGCCTCCTGTCCTGGGGTCA				
47290 T	G	A	GAGCAGGTGTGAAGGAAAGTAGCGGGTGAAGCCTCCTGTCCTGGGGTCA				
47290 IS	[AG]		TCCTCTACTAATGCCCTCTCCCTGCAGGCTCCCCTGACCCCAGGACAGGAGGCTTCACCC[AG]CTACTTTCCTTCACA CCTGCTCACCCCTGCTGCTGGGGCTGAGATTGGTGGAAGTATCTG	ctg13206	14		
47297 I		A	CCTCTTGCCCGTCGGCCCTGCT				
47297 P	G	A	ATGACGTGGCAGACGTCGGCCCTGGGY				
47297 P	A	A	CGCGCCGAGGATCGGCCCTGGGY				
47297 T	G	A	GTACCCCAGGGCCGATGCAGGGCCGACGGGCAAGAGGCT				
47297 T	A	A	GTACCCCAGGGCCGATGCAGGGCCGACGGGCAAGAGGCT				
47297 IS	[GA]		CTCAAGAAAGGCCCGGAAGCGCCAGGCTGGAGATAACAGCCTCTTGCCCGTCGGCCCTGC[GA]TCGGCCCTGGGGT ACCATGTGGCCACAACTGCTGTGGCCCCCTGTCCCCAAGACACTTCC				MFGE8
47334 I		S	CAGCCCCGCCCTGGAATCAAGGGT				
47334 P	C	S	ATGACGTGGCAGACGAGAAGTGTGGCAGATGY				
47334 P	T	S	CGCGCCGAGGAAGAAGTGTGGCAGATGY				
47334 T	C	S	GAAGCATCTGCCACACTTCTCCCCTTGATTCCAGGGCGGGGCTGTG				
47334 T	T	S	GAAGCATCTGCCACACTTCTTCCCTTGATTCCAGGGCGGGGCTGTG				
47334 IS	[CT]		TGGCAGGAAGGAGTCAGAGAGCTGTAAACAGAGCCTTCCAGAAGCATCTGCCACACTTCT[CT]CCCTTGATTCCAGG GCGGGGCTGTGGCCGTTCAGCATTTCTGTAATTGCCCGGATGGATG	ctg15811	4		
47368 I		S	CATGTCCTACTTAACCGCCATGGGCGCT				
47368 P	C	S	ATGACGTGGCAGACGGACTATCTGAGTTGCGAY				
47368 P	T	S	CGCGCCGAGGAGACTATCTGAGTTGCGAY				
47368 T	C	S	GCTGTCGCAACTCAGATAGTCCGCGCCCATGGCGGTTAAGTAGGACATGCG				
47368 T	T	S	GCTGTCGCAACTCAGATAGTCTGCGCCCATGGCGGTTAAGTAGGACATGCG				
47368 IS	[CT]		TCCTTCACCGTCCGTGTCTTCAAAGTCACTGATGAGGCGGCTGTCGCAACTCAGATAGTC[CT]GCGCCCATGGCGGT TAAGTAGGACATGCGGTCTTCGGGGTCATCATCCATCCCTTCCATC	ctg21fin5	21	TJP2
49159 I		S	CCCTTCCTCCCTGTCCTCTCCACCTTCTT				
49159 P	T	S	CGCGCCGAGGACCACCAGCTTACAGTY				
49159 P	G	S	ATGACGTGGCAGACCCCACCAGCTTACAGTY				
49159 T	T	S	TGAGACTGTAAGCTGGTGGTAGAAGGTGGAGAGGACAGGGAGGAAGGGTG				
49159 T	G	S	TGAGACTGTAAGCTGGTGGGAGAAGGTGGAGAGGACAGGGAGGAAGGGTG				
49159 IS	[TG]		CTTTCCAGCTTACAGCTCCCCCCACTAACCCAGGCCAGGGGTGAGACTGTAAGCTGGTGG[TG]AGAAGGTGGAGAGG ACAGGGAGGAAGGGTGGGGGGTGAGATGGAAGGGAGGACCAGGATGG	ctg13321	5		
49185 I		S	GGAGGTTGATTGAAAATCGGAGTTTGAGATGCAAT				
49185 P	C	S	ATGACGTGGCAGACGTATAGGTATCTGTGGTTGATGY				
49185 P	T	S	CGCGCCGAGGATATAGGTATCTGTGGTTGATGY				
49185 T	C	S	ACTGCATCAACCACAGATACCTATACTTGCATCTCAAACTCCGATTTTCAATCAACCTCCAA				
49185 T	T	S	ACTGCATCAACCACAGATACCTATATTTGCATCTCAAACTCCGATTTTCAATCAACCTCCAA				
49185 IS	[CT]		TTACTTGCCATTGAAAATCATGACGTTTTAGGAAAACTGCATCAACCACAGATACCTATA[CT]TTGCATCTCAAACTCCG ATTTTCAATCAACCTCCAGCAGCA	ctg17782	X		
49260 I		A	GCTCAGACTGGGCCACCGCAGCA				
49260 P	T	A	CGCGCCGAGGTTCCAGCTTGGAGTTCTY				
49260 P	C	A	ATGACGTGGCAGACCTCCAGCTTGGAGTTCTY				
49260 T	T	A	TCCCAGAACTCCAAGCTGGAAGCTGCGGTGGCCCAGTCTGAGCAG				
49260 T	C	A	TCCCAGAACTCCAAGCTGGAGGCTGCGGTGGCCCAGTCTGAGCAG				
49260 IS	[TC]		CTTGCAGCGGGCATCACTGAGGGCCGCCTCACCCTGCTGCTCAGACTGGGCCACCGCAGC[TC]TCCAGCTTGGAGT TCTGGGAGGTAGGGGGAATATGGAGAGGATAAAGTGAAGTTTAGTTT	ctg17490	X		
49302 I		S	GAAGAAAGAGAACCAACAGTCAGTGACTACCCTCCTAATCATT				
49302 P	C	S	ATGACGTGGCAGACGTGACAGTGTAAATTCTTGAAGY				
49302 P	T	S	CGCGCCGAGGATGACAGTGTAAATTCTTGAAGTY				
49302 T	C	S	AAGCACTTCAAGAATTTACACTGTCACATGATTAGGAGGGTAGTCACTGACTGTTGGTTCTCTTTCTTCGC				
49302 T	T	S	AAGCACTTCAAGAATTTACACTGTCATATGATTAGGAGGGTAGTCACTGACTGTTGGTTCTCTTTCTTCGC				
49302 IS	[CT]		GTTCTATGAGGACACAGGGTAGGAACAGTTTGACAAGCACTTCAAGAATTTACACTGTCA[CT]ATGATTAGGAGGGTA GTCACTGACTGTTGGTTCTCTTTCTTCGCCATCTCCAATTTACTA	ctg13206	14		
49386 I		S	CCACACACACAAACACATATACACTGTCACACATACT				
49386 P	C	S	ATGACGTGGCAGACGAATATTCACACATACACTCACY				
49386 P	T	S	CGCGCCGAGGAAATATTCACACATACACTCACAY				
49386 T	C	S	CATGTGTGAGTGTATGTGTGAATATTCGTATGTGTGACAGTGTATATGTGTTTGTGTGTGTGGTG				
49386 T	T	S	CATGTGTGAGTGTATGTGTGAATATTTGTATGTGTGACAGTGTATATGTGTTTGTGTGTGTGGTG				
49386 IS	[CT]		TGTATATGTGTGTGCACATATGTGTGTATGTGTGCATGTGTGAGTGTATGTGTGAATATT[CT]GTATGTGTGACAGTGT ATATGTGTTTGTGTGTGTGGTGTGTATATGCATGTGTGTGCACA	ctg15907	6		
49411 I		A	CGCTTCTGTTCTGTCTCCCCGCACCCC				
49411 P	T	A	CGCGCCGAGGTTGTTCTGCTCATCTCTCY				
49411 P	G	A	ATGACGTGGCAGACGTGTTCTGCTCATCTCTCY				
49411 T	T	A	AGGGGAGAGATGAGCAGAACAAGGGTGCGGGGGAGACAGAACAGAAGCGAG				
49411 T	G	A	AGGGGAGAGATGAGCAGAACACGGGTGCGGGGAGACAGAACAGAAGCGAG				
49411 IS	[TG]		CCGCTCTCCCCCACTTCCCTCTCTTGCATTCTCTCGCTTCTGTTCTGTCTCCCCGCACCC[TG]TGTTCTGCTCATCTCT CCCCTCTCCCTCCTTCCTCTGTCATTTCTCTCTTCCTGCCTCCC	ctg15907	6		
49422 I		S	GCCAGGGACGCATGGAGTGACTCAGAGAT				

FIGURE 129D

49422	P	T	S	CGCGCCGAGGAGGGACTATTCAGCTGGY			
49422	P	G	S	ATGACGTGGCAGACCGGGACTATTCAGCTGY			
49422	T	T	S	ACTCCCAGCTGAATAGTCCCTTCTCTGAGTCACTCCATGCGTCCCTGGCTT			
49422	T	G	S	ACTCCCAGCTGAATAGTCCCGTCTCTGAGTCACTCCATGCGTCCCTGGCTT			
49422	IS	[TG]		TTTCAAAATCCCCGGATGAAACACAAAGGGCAAATGCAGGACTCCCAGCTGAATAGTCCC[TG]TCTCTGAGTCACTCC ATGCGTCCCTGGCTTTCCATTCCCTGTCTTCTGGCCTTCCCAATG	ctg17341	14	
49553	I		A	GCTCTGGGAGCCTGGGGAGCCT			
49553	P	G	A	ATGACGTGGCAGACGGCGGACTGGCTY			
49553	P	A	A	CGCGCCGAGGAGCGGACTGGCTGY			
49553	T	G	A	GCATCAGCCAGTCCGCCGGCTCCCCAGGCTCCCAGAGCCC			
49553	T	A	A	GCATCAGCCAGTCCGCTGGCTCCCCAGGCTCCCAGAGCCC			
49553	IS	[GA]		TCAGCACCCCAGCAATGAACTCAAGCAGCCAGCACTTGGGCTCTGGGAGCCTGGGGAGCC[GA]GCGGACTGGCTGA TGCTGGGCCTCCCCAGGGCGGCGGGCTACCCACAAAGGTAAAACCAG	ctg15907	6	
49622	I		A	CCCAGGCCCGCCTCCCCACA			
49622	P	C	A	ATGACGTGGCAGACCCTCTGCAAGCAGCY			
49622	P	T	A	CGCGCCGAGGTCTCTGCAAGCAGCGY			
49622	T	C	A	TTCCCGCTGCTTGCAGAGGGTGGGGAGGCGGGCCTGGGCA			
49622	T	T	A	TTCCCGCTGCTTGCAGAGAGTGGGGAGGCGGGCCTGGGCA			
49622	IS	[CT]		CACAGGCTTTGCCGACGTGGTCTCTCCTAGTTCCGAAATTGCCCAGGCCCGCCTCCCCAC[CT]CTCTGCAAGCAGCG GGAACGACTTCCACATCGCTTAATTTCTTTATTAAACTTTTCACCT			
49635	I		S	GCTCACGGTGGGCGGCGCA			
49635	P	G	S	ATGACGTGGCAGACCGACACAGCCCTGAY			
49635	P	A	S	CGCGCCGAGGTGACACAGCCCTGATY			
49635	T	G	S	GATCATCAGGGCTGTGTCGGCGCCGCCCACCGTGAGCAG			
49635	T	A	S	GATCATCAGGGCTGTGTCAGCGCCGCCCACCGTGAGCAG			
49635	IS	[GA]		CACCAGCTTGCTCTCCTGGGTCCCCACAAACTCCCTGGTCCAGATCATCAGGGCTGTGTC[GA]GCGCCGCCCACCGT GAGCAGCACAGAGTCATTGTGCAGCCACGTCACGTTAGTGACATGT	ctg14391	11	
49817	I		A	CTGCAGCTCAGCAGACCTCCTGGCA			
49817	P	C	A	ATGACGTGGCAGACCGTGGTGGGTAGCTY			
49817	P	T	A	CGCGCCGAGGTGTGGTGGGTAGCTCY			
49817	T	C	A	AAAGGAGCTACCCACCACGGCCAGGAGGTCTGCTGAGCTGCAGGA			
49817	T	T	A	AAAGGAGCTACCCACCACAGCCAGGAGGTCTGCTGAGCTGCAGGA			
49817	IS	[CT]		GCTATTCGTCGGTGACCTGTGGGACTCGAGCTATTCCTGCAGCTCAGCAGACCTCCTGGC[CT]GTGGTGGGTAGCTC CTTTCCTTTAGTCAGATTCCGAGGCCTCTGCAACCTGGAGCCTTGG	ctg16400	17	
49851	I		A	CACTGCTTCCTTCTGCTCCAGGCCTCAT			
49851	P	A	A	CGCGCCGAGGATTTTCCCTTCTTGTAAAATGGY			
49851	P	G	A	ATGACGTGGCAGACGTTTTCCCTTCTTGTAAAATGGY			
49851	T	A	A	GATTCCATTTTACAAGAAGGGAAAATTGAGGCCTGGAGCAGAAGGAAGCAGTGGG			
49851	T	G	A	GATTCCATTTTACAAGAAGGGAAAACTGAGGCCTGGAGCAGAAGGAAGCAGTGGG			
49851	IS	[AG]		CCCGGCTTAAGGATGCTGGTTCTGACTCTACCCCACTGCTTCCTTCTGCTCCAGGCCTCA[AG]TTTTCCCTTCTTGTA AAATGGAATCTATATCTATAAAGGTTTCTTCAAATCCACTCTTGA	ctg17731	1	
49858	I		S	CTTTTCTCCACCTCTCATCTTCCCCAGAGCTTCAT			
49858	P	C	S	ATGACGTGGCAGACGAGGAATGAGCAACAACTY			
49858	P	T	S	CGCGCCGAGGAAGGAATGAGCAACAACTTY			
49858	T	C	S	GAAAAAGTTGTTGCTCATTCCTCTGAAGCTCTGGGGAAGATGAGAGGTGGAGAAAAGAA			
49858	T	T	S	GAAAAAGTTGTTGCTCATTCCTTTGAAGCTCTGGGGAAGATGAGAGGTGGAGAAAAGAA			
49858	IS	[CT]		AGGAGGATTTTGATTAGACAGCTACCACAGTCATTTGAGAAAAAGTTGTTGCTCATTCCT[CT]TGAAGCTCTGGGGAA GATGAGAGGTGGAGAAAAGAAGGCTGAGAGTGAAGCCTCTGAATA	ctg15944	11	
49906	I		A	GCCCGGGGGCGCCTGGGAT			
49906	P	G	A	ATGACGTGGCAGACGTTTGAAGCAAACAGGCY			
49906	P	A	A	CGCGCCGAGGATTTGAAGCAAACAGGCAY			
49906	T	G	A	GCGCTGCCTGTTTGCTTCAAACTCCCAGGCGCCCCGGGCCT			
49906	T	A	A	GCGCTGCCTGTTTGCTTCAAATTCCCAGGCGCCCCGGGCCT			
49906	IS	[GA]		GAAGAGGCGGGACTTCGCGGGCGACGTCATCGGGGCGCCGGAGGCCCGGGGCGCCTGGGA[GA]TTTGAAGCAAAC AGGCAGCGCGCGACAATGGCGGTCGCTCGTGCAGCTTTGGGGCCATTG	ctg5212	19	UMPS
49913	I		S	GTTTAGGTTTTTTGATTTCTAAATGGAAGGCATTTTTTTCATTGAGACT			
49913	P	T	S	CGCGCCGAGGATCCATGGAAAAATGACAGGY			
49913	P	C	S	ATGACGTGGCAGACGTCCATGGAAAAATGACAGY			
49913	T	T	S	CTCACCTGTCATTTTTCCATGGATGTCTCAATGAAAAAAATGCCTTCCATTTAGAAATCAAAAAACCTAAACTG			
49913	T	C	S	CTCACCTGTCATTTTTCCATGGACGTCTCAATGAAAAAAATGCCTTCCATTTAGAAATCAAAAAACCTAAACTG			
49913	IS	[TC]		ACAAAGGTAATGTTCTAGACAACTCAGTCAGCCTTCTCTCACCTGTCATTTTTCCATGGA[TC]GTCTCAATGAAAAAAAT GCCTTCCATTTAGAAATCAAAAAACCTAAACTGTTTTTAATGC			
49937	I		A	CCAGGCCTCTTGCCCTTCCAGCAT			
49937	P	C	A	CGCGCCGAGGCAGGACAGGGATGTGTY			
49937	P	G	A	ATGACGTGGCAGACGAGGACAGGGATGTGTY			
49937	T	C	A	CAGGACACATCCCTGTCCTGTGCTGGAAGGGCAAGAGGCCTGGCT			
49937	T	G	A	CAGGACACATCCCTGTCCTCTGCTGGAAGGGCAAGAGGCCTGGCT			
49937	IS	[CG]		ACGGGGGCCACTCTAGGAGGACCTGGGACCCATGAAGCCAGGCCTCTTGCCCTTCCAGCA[CG]AGGACAGGGATGT GTCCTGCTGAGGACAGAGGACAGGGACGGAGGCTTCCTGTATTGTGT	ctg15053	16	
49961	I		S	GAAAAAACATGTATAATAAAATAATTGCAGATCTAGTTTAGCCAACATTTGATGGA			
49961	P	G	S	ATGACGTGGCAGACCGCCTCTTCCAAGGTY			
49961	P	A	S	CGCGCCGAGGTGCCTCTTCCAAGGTAGY			
49961	T	G	S	AGGACTACCTTGGAAGAGGCGCCATCAAATGTTGGCTAAACTAGATCTGCAATTATTTTATTATACATGTTTTTTTCTC			
49961	T	A	S	AGGACTACCTTGGAAGAGGCACCATCAAATGTTGGCTAAACTAGATCTGCAATTATTTTATTATACATGTTTTTTTCTC			
49961	IS	[GA]		CAGTCCTCTTAAGCTGCAGTCCTGGCCAAGAGCCCTGAGGAGGACTACCTTGGAAGAGGC[GA]CCATCAAATGTTGG CTAAACTAGATCTGCAATTATTTTATTATACATGTTTTTTTCTCTG	ctg12387	2	
50020	I		S	CCTTCAAACCTTTCAGAAAACCTGTTCTAATTTACTTTGCTTCC			
50020	P	A	S	CGCGCCGAGGTTTCTACAGGCTCCATCAY			
50020	P	T	S	ATGACGTGGCAGACATTCTACAGGCTCCATCAY			
50020	T	A	S	TTCCTGATGGAGCCTGTAGAAAGAAGCAAAGTAAATTAGAACAGGTTTTCTGAAAGGTTTGAAGGTA			
50020	T	T	S	TTCCTGATGGAGCCTGTAGAATGAAGCAAAGTAAATTAGAACAGGTTTTCTGAAAGGTTTGAAGGTA			
50020	IS	[AT]		CACCATGTGAGTATCAACAGAGTGCACAGTCCTGCACAGTTCCTGATGGAGCCTGTAGAA[AT]GAAGCAAAGTAAATT AGAACAGGTTTTCTGAAAGGTTTGAAGGTAAAGTTGTCCTTGGGT	ctg15907	6	
50029	I		S	GTGTGATTTGGATTTACCAAACAAACATACACAGACACATACACACACT			
50029	P	T	S	CGCGCCGAGGACATACACACACATTTCTAGAAY			
50029	P	C	S	ATGACGTGGCAGACGCATACACACACATTTCTAGAY			
50029	T	T	S	TATTTTCTAGAAATGTGTGTGTATGTGTGTGTGTATGTGTCTGTGTATGTTTGTTTGGTAAATCCAAATCACACAA			
50029	T	C	S	TATTTTCTAGAAATGTGTGTGTATGCGTGTGTGTATGTGTCTGTGTATGTTTGTTTGGTAAATCCAAATCACACAA			
50029	IS	[TC]		CAAAATTCACTGAAACAACTCTATGTCTCTGATACTATTTTCTAGAAATGTGTGTGTATG[TC]GTGTGTGTATGTGTCTG TGTATGTTTGTTTGGTAAATCCAAATCACACAATCAACGTAAA	ctg13446	1	
50145	I		S	TCAGGAAGCCTCCTCATCTTCAAAGAGCATCAAGCC			

FIGURE 129D

50145 P	A	S	CGCGCCGAGGTCTAAAACGGTAAGAGTGGY				
50145 P	T	S	ATGACGTGGCAGACACTAAAACGGTAAGAGTGGY				
50145 T	A	S	CTGGCCACTCTTACCGTTTTAGAGCTTGATGCTCTTTGAAGATGAGGAGGCTTCCTGACA				
50145 T	T	S	CTGGCCACTCTTACCGTTTTAGTGCTTGATGCTCTTTGAAGATGAGGAGGCTTCCTGACA				
50145 IS	[AT]		CCTTTTATCTCTCCTCGAGTCTCCGCTGCACTCCAGACCTGGCCACTCTTACCGTTTTAG[AT]GCTTGATGCTCTTTGA AGATGAGGAGGCTTCCTGACAGCCGCGTGATGGCTGCCCTCTGG	ctg22fin3	22		
50178 I		S	TCTGGGCCAACTATGGGTTCCCCCCT				
50178 P	G	S	ATGACGTGGCAGACCCCAGCCTTTTTTTTTTTTTTTY				
50178 P	T	S	CGCGCCGAGGACCAGCCTTTTTTTTTTTTTTTY				
50178 T	G	S	AAAAAAAAAAAAAAAAAAAAAGGCTGGGGGGGGGGAACCCATAGTTGGCCCAGAGA				
50178 T	T	S	AAAAAAAAAAAAAAAAAAAAAGGCTGGTGGGGGGAACCCATAGTTGGCCCAGAGA				
50178 IS	[GT]		AAAAAAAAAAAGGGGGGGGGAATACCCCCCAAAAAAAAAAAAAAAAAAAAAGGCTGG[GT]GGGGGGAACCCATAG TTGGCCCAGAGAATGCGCAGTTAACGCTTAAGTATATATCTTTTC	ctg15478	1		
50290 I		S	GGTGGAGAGAAGGGAGCAGAATGGCCCT				
50290 P	C	S	ATGACGTGGCAGACGGGCACAAGAGGAAGAY				
50290 P	T	S	CGCGCCGAGGAGGCACAAGAGGAAGAAY				
50290 T	C	S	ACGATTCTTCCTCTTGTGCCCGGGCCATTCTGCTCCCTTCTCTCCACCCC				
50290 T	T	S	ACGATTCTTCCTCTTGTGCCTGGGCCATTCTGCTCCCTTCTCTCCACCCC				
50290 IS	[CT]		GAATGTGCTCAGTTGTTTGCTTCTTCTCTCCAGCCTTTCCACGATTCTTCCTCTTGTGCC[CT]GGGCCATTCTGCTCCC TTCTCTCCACCCCAGTACACACAAGAGACTAGAGTCAGGCGCCC	ctg3461	17		
50316 I		S	GGGTGATGGCTAGCTTCTGCCAATGTCTGAGAT				
50316 P	T	S	CGCGCCGAGGAAGAGTATTGGTCCTATACTAACTY				
50316 P	G	S	ATGACGTGGCAGACCAGAGTATTGGTCCTATACTAACY				
50316 T	T	S	ATTAAGTTAGTATAGGACCAATACTCTTTCTCAGACATTGGCAGAAGCTAGCCATCACCCCC				
50316 T	G	S	ATTAAGTTAGTATAGGACCAATACTCTGTCTCAGACATTGGCAGAAGCTAGCCATCACCCCC				
50316 IS	[TG]		GAGAGTCCAACCACACTTACGGTAAGACTTCCCATTAAGTTAGTATAGGACCAATACTCT[TG]TCTCAGACATTGGCAG AAGCTAGCCATCACCCCCTATAAGATGGTAGGCCCTAAGGGCTC	ctg16031	17		
50391 I		A	GGGGTTGGTCCCACGCCTTTCTTTTAAGGTGT				
50391 P	G	A	ATGACGTGGCAGACGGAATCCCTCCTCTTATCAY				
50391 P	C	A	CGCGCCGAGGCGAATCCCTCCTCTTATCAY				
50391 T	G	A	ACACTGATAAGAGGAGGGATTCCCACCTTAAAAGAAAGGCGTGGGACCAACCCCAG				
50391 T	C	A	ACACTGATAAGAGGAGGGATTCGCACCTTAAAAGAAAGGCGTGGGACCAACCCCAG				
50391 IS	[GC]		TGCCCTTGAGGCCGAGAGTGGTGGGATCTGGGGTTGGTCCCACGCCTTTCTTTTAAGGTG[GC]GAATCCCTCCTCTT ATCAGTGTGCTGTGTGATCTGGGTCTGCATCTGGGGGTCTCCAATC	MULTIPLE	MULTIPLE		
50417 I		A	GGCAATTCACAGGAATTGTACATGTAATATTAAAGCAAGTTTTCTAAAGAAATAA				
50417 P	T	A	CGCGCCGAGGTAGTAGCTGGTGAATCCTTY				
50417 P	C	A	ATGACGTGGCAGACCAGTAGCTGGTGAATCCTY				
50417 T	T	A	AGTTAAGGATTCACCAGCTACTATATTTCTTTAGAAAACTTGCTTTAATATTACATGTACAATTCCTGTGAATTGCCAG				
50417 T	C	A	AGTTAAGGATTCACCAGCTACTGTATTTCTTTAGAAAACTTGCTTTAATATTACATGTACAATTCCTGTGAATTGCCAG				
50417 IS	[TC]		AAATCTGGCAATTCACAGGAATTGTACATGTAATATTAAAGCAAGTTTTCTAAAGAAATA[TC]AGTAGCTGGTGAATCCT TAACTAGGGCAAGTTTTTCTGGATCCCTAACCTGGAAAATCAC	ctg19247	7		
50470 I		S	GAGGGAGGGCAGGGGCTGCACT				
50470 P	C	S	ATGACGTGGCAGACGGAGACCAGAGAAAGGAAY				
50470 P	T	S	CGCGCCGAGGAGAGACCAGAGAAAGGAAAY				
50470 T	C	S	GGGTTTTCCTTTCTCTGGTCTCCGTGCAGCCCCTGCCCTCCCTCGG				
50470 T	T	S	GGGTTTTCCTTTCTCTGGTCTCTGTGCAGCCCCTGCCCTCCCTCGG				
50470 IS	[CT]		GACACGCATGGGACTGATGCTTTGAGTTTTCTTCTGTGGGGTTTTCCTTTCTCTGGTCTC[CT]GTGCAGCCCCTGCCC TCCCTCGGGTGCTGCTGGCCTCAAAGGAGGAACTCGTGGGGGGAG	ctg15438	8		
50503 I		A	TGACACTGCACCCGGCTCCCAGTCC				
50503 P	T	A	CGCGCCGAGGTCTCAATCTTGTTGGCCY				
50503 P	A	A	ATGACGTGGCAGACACTCAATCTTGTTGGCCY				
50503 T	T	A	GGAGGGCCAACAAGATTGAGAGACTGGGAGCCGGGTGCAGTGTCAAA				
50503 T	A	A	GGAGGGCCAACAAGATTGAGTGACTGGGAGCCGGGTGCAGTGTCAAA				
50503 IS	[TA]		GGTCTTCTCGAGCTTTGGAACCAGTCGCGTCCCCTTTGACACTGCACCCGGCTCCCAGTC[TA]CTCAATCTTGTTGGC CCTCCGGCGATCTCCCGTTGGATGAATTGCTCCTGCTGAAACTCG	ctg15144	12		
50504 I		S	CTCCTCTGACAGCAGAAGGAGCAGGACCT				
50504 P	C	S	ATGACGTGGCAGACGTAAGGAACCAAAGAGCGY				
50504 P	T	S	CGCGCCGAGGATAAGGAACCAAAGAGCGY				
50504 T	C	S	TCCACGCTCTTTGGTTCCTTACGGTCCTGCTCCTTCTGCTGTCAGAGGAGCA				
50504 T	T	S	TCCACGCTCTTTGGTTCCTTATGGTCCTGCTCCTTCTGCTGTCAGAGGAGCA				
50504 IS	[CT]		TGTGGCCGTTCTCTGAGCTTTCCTGTCACATCGTTTCCTTCCACGCTCTTTGGTTCCTTA[CT]GGTCCTGCTCCTTCTG CTGTCAGAGGAGCAGAGAGTTGATCTTATTCATTCTGGATACGG	ctg15842	19		
50513 I		S	CTGAGGGCTCTTGATCAGACGTGGGGGT				
50513 P	C	S	ATGACGTGGCAGACGGGTCACTGGCAGGY				
50513 P	G	S	CGCGCCGAGGCGGTCACTGGCAGGY				
50513 T	C	S	ATTGCCTGCCAGTGACCCCCCCCACGTCTGATCAAGAGCCCTCAGAT				
50513 T	G	S	ATTGCCTGCCAGTGACCGCCCCCACGTCTGATCAAGAGCCCTCAGAT				
50513 IS	[CG]		CAAATCCACAGGTGGGGACTTGGGGGAGGGTGGAATATGGGGCATTGCCTGCCAGTGACC[CG]CCCCCACGTCTGA TCAAGAGCCCTCAGATGGTACTCACGGGGTCCAGTGTATCTGAGAGG	ctg19262	19		
50527 I		A	GGCGGGGAGAAGATCGACGTGACT				
50527 P	A	A	CGCGCCGAGGAGTGAGCGTGTACAAACY				
50527 P	G	A	ATGACGTGGCAGACGGTGAGCGTGTACAAACY				
50527 T	A	A	CCGTGTTTGTACACGCTCACTGTCACGTCGATCTTCTCCCCGCCAT				
50527 T	G	A	CCGTGTTTGTACACGCTCACCGTCACGTCGATCTTCTCCCCGCCAT				
50527 IS	[AG]		CTCGGGCAAGTACAGCATCAACATCAAGAATAAGTATGGCGGGGAGAAGATCGACGTGAC[AG]GTGAGCGTGTACAA ACACGGGGAGAAGATCCCGGACATGGCCCCGCCCCAGCAAGCCAAG				MYOM2
50549 I		S	CCCTGGGCACTGAGGCAGGGTT				
50549 P	C	S	ATGACGTGGCAGACGCCTGTTATCCTAAATATGATATCY				
50549 P	T	S	CGCGCCGAGGACCTGTTATCCTAAATATGATATCAY				
50549 T	C	S	GCAATGATATCATATTTAGGATAACAGGCACCCTGCCTCAGTGCCCAGGGGA				
50549 T	T	S	GCAATGATATCATATTTAGGATAACAGGTACCCTGCCTCAGTGCCCAGGGGA				
50549 IS	[CT]		AAATGACTCACTGGCATCAAGTACAGGCTTTTGCAATGATATCATATTTAGGATAACAGG[CT]ACCCTGCCTCAGTGCC CAGGGGAATGCTGGAGATGCCCAACCCATTTTGACCTCTTTCAA	ctg16318	19		
50579 I		S	GTCTGGGTGCTCCTGCGGGTGAGAATT				
50579 P	G	S	CGCGCCGAGGCAGAAGAAGACCCCAACY				
50579 P	C	S	ATGACGTGGCAGACGAGAAGAAGACCCCAACY				
50579 T	G	S	GCTGGTTGGGGTCTTCTTCTGATTCTCACCCGCAGGAGCACCCAGACCC				
50579 T	C	S	GCTGGTTGGGGTCTTCTTCTCATTCTCACCCGCAGGAGCACCCAGACCC				
50579 IS	[GC]		GCTCAGGGGAGAGCTGGTGAGCATGACTCCATGGCCTCCTGCTGGTTGGGGTCTTCTTCT[GC]ATTCTCACCCGCAG GAGCACCCAGACCCCCCCTTTTCAGAAATGATTACATTTTCCCTTC	ctg13023	2		
50591 I		S	GAATTTGGCAAATTGGGGAGAATCCTGACACATCAGGT				
50591 P	C	S	ATGACGTGGCAGACGAATTGAGAATGGACTGGCY				
50591 P	T	S	CGCGCCGAGGAAATTGAGAATGGACTGGCY				
50591 T	C	S	AGCTGCCAGTCCATTCTCAATTCCCTGATGTGTCAGGATTCTCCCCAATTTGCCAAATTCTT				
50591 T	T	S	AGCTGCCAGTCCATTCTCAATTTCCTGATGTGTCAGGATTCTCCCCAATTTGCCAAATTCTT				
50591 IS	[CT]		AGACTCTTAGTAGAAGAGAGACGGCCACTAACAAGTCAAGCTGCCAGTCCATTCTCAATT[CT]CCTGATGTGTCAGGA TTCTCCCCAATTTGCCAAATTCTTTTAGGTTTTGATCTCAAATTA	ctg22fin4	22		

FIGURE 129D

50606 I		A	TCCTGCGGTGGCCCGAGCCT				
50606 P	A	A	CGCGCCGAGGACGAGTGTCACCTCTGY				
50606 P	G	A	ATGACGTGGCAGACGCGAGTGTCACCTCTY				
50606 T	A	A	GGCGCAGAGGTGACACTCGTGGCTCGGGCCACCGCAGGATT				
50606 T	G	A	GGCGCAGAGGTGACACTCGCGGCTCGGGCCACCGCAGGATT				
50606 IS	[AG]		GGCGCCCAGCGAGGTCAGCCGCGTCTCCTTCACGTTCACAATCCTGCGGTGGCCCGAGCC[AG]CGAGTGTCACCTC TGCGCCCCTGTCCACAGGGCCTCACTCCTCCCTATGTCCCATGTGGC	ctg53	14		
50612 I		S	GTTTCTGCTTTCTGCTGAGACCACCCCCAA				
50612 P	G	S	ATGACGTGGCAGACCCCTGACACCATCAGTY				
50612 P	A	S	CGCGCCGAGGTCCTGACACCATCAGTCY				
50612 T	G	S	GGGGGACTGATGGTGTCAGGGTGGGGGTGGTCTCAGCAGAAAGCAGAAACGG				
50612 T	A	S	GGGGGACTGATGGTGTCAGGATGGGGGTGGTCTCAGCAGAAAGCAGAAACGG				
50612 IS	[GA]		CCAAATCCTGGTCTCTGTCCAAGCCAGGCCCCAGGACAGAGGGGGACTGATGGTGTCAGG[GA]TGGGGGTGGTCTC AGCAGAAAGCAGAAACGGCATCAGGCCTCTCCCACACAAAAAAAAG	ctg22fin11	22		
50698 I		S	TGGCAGCAGCCCTCAAGCCACCT				
50698 P	G	S	ATGACGTGGCAGACCCACAGTGGGCGCY				
50698 P	T	S	CGCGCCGAGGACACAGTGGGCGCY				
50698 T	G	S	GTGAGCGCCCACTGTGGGGTGGCTTGAGGGCTGCTGCCAGT				
50698 T	T	S	GTGAGCGCCCACTGTGTGGTGGCTTGAGGGCTGCTGCCAGT				
50698 IS	[GT]		TTGGAACCAAGTTGAAGAAAGGAAGAGAAGGATGATTCATGCCAGTGAGCGCCCACTGTG[GT]GGTGGCTTGAGGGC TGCTGCCAGTCAAGGACACAGTCTCCCAAACCTGCTTTTCTCACTC	ctg16105	5		
50710 I		A	TGCCAGTCAGATCTGCTGCTGCTGCTT				
50710 P	G	A	ATGACGTGGCAGACGCTGCTGCTGCTTAATAY				
50710 P	A	A	CGCGCCGAGGACTGCTGCTGCTTAATACY				
50710 T	G	A	ACAAGTATTAAGCAGCAGCAGCAGCAGCAGCAGATCTGACTGGCAGC				
50710 T	A	A	ACAAGTATTAAGCAGCAGTAGCAGCAGCAGCAGATCTGACTGGCAGC				
50710 IS	[GA]		GGTCCACGCGTGTTCTCTGGGCATGCTGAGCGGCTGCCAGTCAGATCTGCTGCTGCTGCT[GA]CTGCTGCTGCTTAA TACTTGTCTAGGTCAGGCCAGCATCCTCTTGTTTTTCTTGAGGTTC	MULTIPLE	MULTIPLE		
50835 I		S	AGCAGCCTGAGCCAGGTGCTTTCTTTAGCT				
50835 P	C	S	ATGACGTGGCAGACGCCTCTGTGTTCCTCCY				
50835 P	T	S	CGCGCCGAGGACCTCTGTGTTCCTCCY				
50835 T	C	S	TCCTGGAGGAACACAGAGGCGCTAAAGAAAGCACCTGGCTCAGGCTGCTCC				
50835 T	T	S	TCCTGGAGGAACACAGAGGTGCTAAAGAAAGCACCTGGCTCAGGCTGCTCC				
50835 IS	[CT]		ACAGCTGCAGCCGGGGCGCTTCTGCTGGCTTGGTTTGCTTCTCCTGGAGGAACACAGAGG[CT]GCTAAAGAAAGCAC CTGGCTCAGGCTGCTCCCTGTTCCCCCGTGCCAGCCCACCTGGAGG	ctg5305	11		
50841 I		S	CAGCACATCCTACCCCGAAAGCTGCCA				
50841 P	G	S	ATGACGTGGCAGACCACTTAACAATACCAAAGGCY				
50841 P	A	S	CGCGCCGAGGTACTTAACAATACCAAAGGCTTY				
50841 T	G	S	GAGTAAGCCTTTGGTATTGTTAAGTGGGCAGCTTTCGGGGTAGGATGTGCTGCC				
50841 T	A	S	GAGTAAGCCTTTGGTATTGTTAAGTAGGCAGCTTTCGGGGTAGGATGTGCTGCC				
50841 IS	[GA]		AAAGTATTCCATGCGAAAGATTCACGTGCCTCTTTGAGTAAGCCTTTGGTATTGTTAAGT[GA]GGCAGCTTTCGGGGT AGGATGTGCTGCCCTTAAGGATCCAATCATATGGCGTGTATTTTG	ctg2846	11		
50846 I		A	GGAAAGGGAAGGAGAGGGTTGGAGCCAGT				
50846 P	G	A	ATGACGTGGCAGACGATAAGGGAGACCCCTGY				
50846 P	A	A	CGCGCCGAGGAATAAGGGAGACCCCTGY				
50846 T	G	A	GATTCAGGGGTCTCCCTTATCCTGGCTCCAACCCTCTCCTTCCCTTTCCGC				
50846 T	A	A	GATTCAGGGGTCTCCCTTATTCTGGCTCCAACCCTCTCCTTCCCTTTCCGC				
50846 IS	[GA]		TTGAGAGGGTGAGTCTGCCAGTGGGGAAAAGCGGAAAGGGAAGGAGAGGGTTGGAGCCAG[GA]ATAAGGGAGACCC CTGAATCATGGTTTCAAGACCCATGGGGGGACCTGCATTTAGAGGAT	ctg2846	11		
50854 I		A	GGACGACCTTGGCTTCCCTTCTTACCCCA				
50854 P	C	A	ATGACGTGGCAGACCACCCACTCCAGGTACY				
50854 P	T	A	CGCGCCGAGGTACCCACTCCAGGTACTY				
50854 T	C	A	CTGGAGTACCTGGAGTGGGTGGGGGTAAGAAGGGAAGCCAAGGTCGTCCCG				
50854 T	T	A	CTGGAGTACCTGGAGTGGGTAGGGGTAAGAAGGGAAGCCAAGGTCGTCCCG				
50854 IS	[CT]		CCGTCCACAAGGTGAGGGGCGCACACCTTCCGGGACGACCTTGGCTTCCCTTCTTACCCC[CT]ACCCACTCCAGGTA CTCCAGCTCTGGCTTGGGGATGTTTGCCAGCTTTGAGGCGCAAAGG	ctg18466	16		
50871 I		S	TGCATGTACATATTTGCCTTCCCCTACCCTA				
50871 P	G	S	ATGACGTGGCAGACCAAGCTTTATTCTGCAGCY				
50871 P	A	S	CGCGCCGAGGTAAGCTTTATTCTGCAGCCY				
50871 T	G	S	TAATGGCTGCAGAATAAAGCTTGAGGGTAGGGGAAGGCAAATATGTACATGCATG				
50871 T	A	S	TAATGGCTGCAGAATAAAGCTTAAGGGTAGGGGAAGGCAAATATGTACATGCATG				
50871 IS	[GA]		AATCATCTGGTTGACCTTCCTTCATCTCCGAAGTAAAGTAATGGCTGCAGAATAAAGCTT[GA]AGGGTAGGGGAAGGC AAATATGTACATGCATGTTTAAAAAAAAGATTAGTGTGTGCCTTC	ctg12387	2		
50910 I		S	GGCTCATGTGTCACCTACTCCAAAGGTCCCT				
50910 P	T	S	CGCGCCGAGGAAGAGGAGTCTTCCCTACY				
50910 P	C	S	ATGACGTGGCAGACGAGAGGAGTCTTCCCTACY				
50910 T	T	S	GGAAGTAGGGAAGACTCCTCTTGGGACCTTTGGAGTAGGTGACACATGAGCCCA				
50910 T	C	S	GGAAGTAGGGAAGACTCCTCTCGGGACCTTTGGAGTAGGTGACACATGAGCCCA				
50910 IS	[TC]		AGAAGGCAGGGGAGGTGGCTGGTTTAAGGGGAACTTGAGGGAAGTAGGGAAGACTCCTCT[TC]GGGACCTTTGGAG TAGGTGACACATGAGCCCAGCCCCAGCTCACCTGCCAATCCAGCTGA	ctg16820	16	GPA33	
50911 I		S	TCACCCACCCCTGGGCACTGGAT				
50911 P	C	S	ATGACGTGGCAGACGAGAAAAGGGGCCTACTY				
50911 P	G	S	CGCGCCGAGGCAGAAAAGGGGCCTACTY				
50911 T	C	S	GGTGAGTAGGCCCCTTTTCTCTCCAGTGCCCAGGGGTGGGTGAGA				
50911 T	G	S	GGTGAGTAGGCCCCTTTTCTGTCCAGTGCCCAGGGGTGGGTGAGA				
50911 IS	[CG]		GGTGGGGAAGATGTGGCCTGTGTTGTGGACACTCTGTGCAGGTGAGTAGGCCCCTTTTCT[CG]TCCAGTGCCCAGG GGTGGGTGAGACATGGGGACCTAGGGCTGAAGGAGAGGCTCTGTCAG	ctg15907	6		
50965 I		A	TGGCCTTGCTGGCAGTGGAGCCT				
50965 P	G	A	ATGACGTGGCAGACGCAGAGGTGGGAGCY				
50965 P	C	A	CGCGCCGAGGCCAGAGGTGGGAGCY				
50965 T	G	A	CTGGGCTCCCACCTCTGCGGCTCCACTGCCAGCAAGGCCACC				
50965 T	C	A	CTGGGCTCCCACCTCTGGGGCTCCACTGCCAGCAAGGCCACC				
50965 IS	[GC]		GAGGATGGGGCAGCGCAGGGATCAGGAGCTTGGCCAGGTGGCCTTGCTGGCAGTGGAGCC[GC]CAGAGGTGGGAG CCCAGGGTGAAGGCACCGGAGAGGGCAGTGGGGACCGCCTGCAAAATG	ctg22fin3	22		
51071 I		A	CCCAGCTCCCACATGCCCAATTCTGCT				
51071 P	G	A	ATGACGTGGCAGACGTATTCAAATTTGACCTCTTCTTCY				
51071 P	A	A	CGCGCCGAGGATATTCAAATTTGACCTCTTCTTCY				
51071 T	G	A	ATTTGAAGAAGAGGTCAAATTTGAATACGCAGAATTGGGCATGTGGGAGCTGGGAA				
51071 T	A	A	ATTTGAAGAAGAGGTCAAATTTGAATATGCAGAATTGGGCATGTGGGAGCTGGGAA				
51071 IS	[GA]		CTTTTTTGCTTGAATTGCCTTCCCTGGGCTCCTTCCCAGCTCCCACATGCCCAATTCTGC[GA]TATTCAAATTTGACCT CTTCTTCAAATACCCTTTTAAAAATGCAGTGTAGTGCAAACAGC	MULTIPLE	3		
51161 I		S	GCATCCATCCCCGGTCAGGTGCAGTT				
51161 P	C	S	ATGACGTGGCAGACGTTCTTTCTCTGAACTCATGTY				
51161 P	T	S	CGCGCCGAGGATTCTTTCTCTGAACTCATGTTY				
51161 T	C	S	GTACAACATGAGTTCAGAGAAAGAACACTGCACCTGACCGGGGATGGATGCCA				
51161 T	T	S	GTACAACATGAGTTCAGAGAAAGAATACTGCACCTGACCGGGGATGGATGCCA				
51161 IS	[CT]		TAGAGCTTAGCTCTTTTGCCACTTGTTATTGTCAAGTACAACATGAGTTCAGAGAAAGAA[CT]ACTGCACCTGACCGGG GATGGATGCCACGCCTTGAAGAAATTGGCAGGAAACAGAAGAGG	ctg14932	16		
51166 I		A	GCCCCTTCGCCAGTGCCTTGGCA				

FIGURE 129D

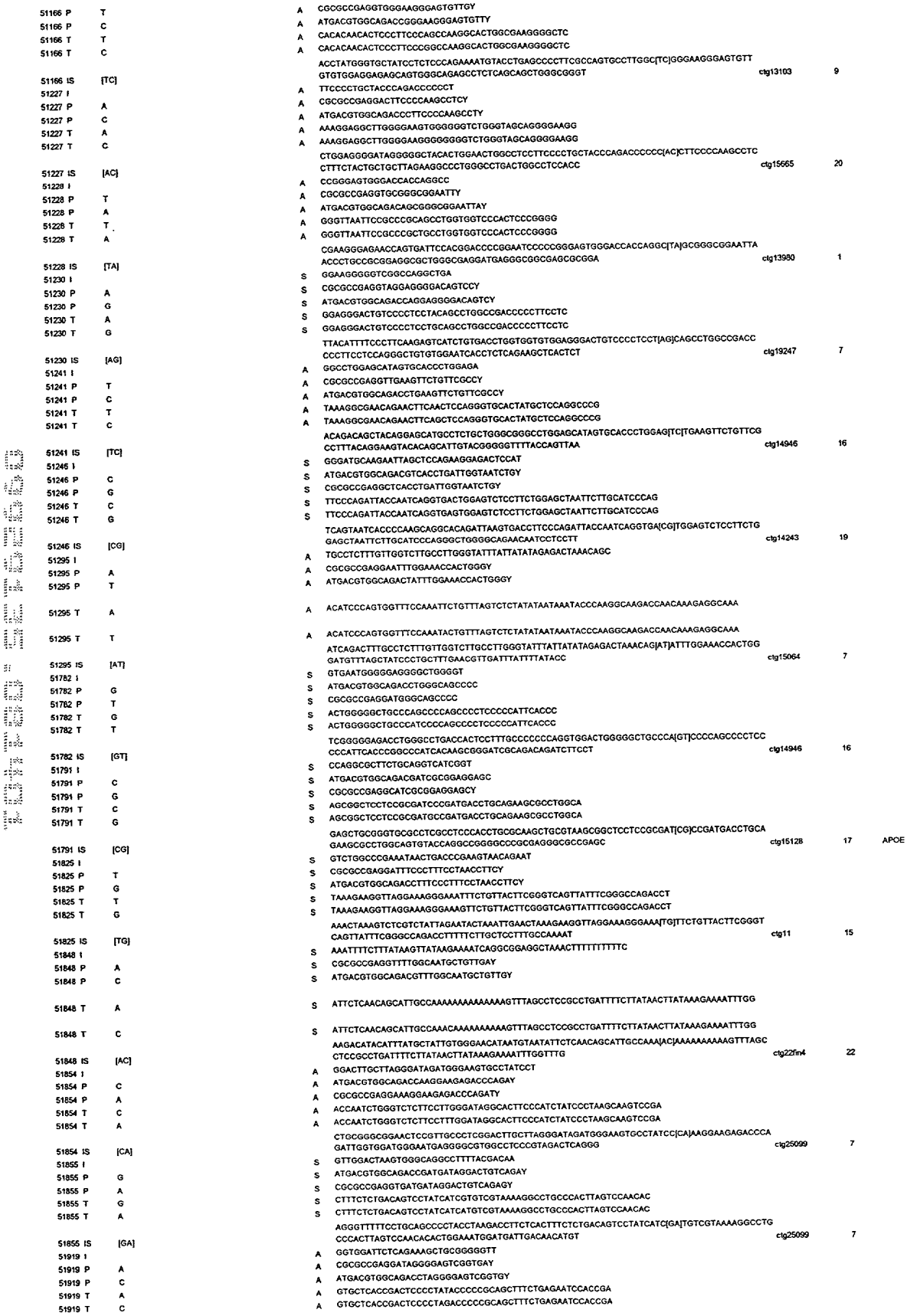

51166 P T
51166 P C
51166 T T
51166 T C
51166 IS [TC]
51227 I
51227 P A
51227 P C
51227 T A
51227 T C
51227 IS [AC]
51228 I
51228 P T
51228 P A
51228 T T
51228 T A
51228 IS [TA]
51230 I
51230 P A
51230 P G
51230 T A
51230 T G
51230 IS [AG]
51241 I
51241 P T
51241 P C
51241 T T
51241 T C
51241 IS [TC]
51245 I
51246 P C
51246 P G
51246 T C
51246 T G
51246 IS [CG]
51295 I
51295 P A
51295 P T
51295 T A
51295 T T
51295 IS [AT]
51782 I
51782 P G
51782 P T
51782 T G
51782 T T
51782 IS [GT]
51791 I
51791 P C
51791 P G
51791 T C
51791 T G
51791 IS [CG]
51825 I
51825 P T
51825 P G
51825 T T
51825 T G
51825 IS [TG]
51848 I
51848 P A
51848 P C
51848 T A
51848 T C
51848 IS [AC]
51854 I
51854 P C
51854 P A
51854 T C
51854 T A
51854 IS [CA]
51855 I
51855 P G
51855 P A
51855 T G
51855 T A
51855 IS [GA]
51919 I
51919 P A
51919 P C
51919 T A
51919 T C
A CGCGCCGAGGTGGGAAGGGAGTGTTGY
A ATGACGTGGCAGACCGGGAAGGGAGTGTTY
A CACACAACACTCCCTTCCCAGCCAAGGCACTGGCGAAGGGGCTC
A CACACAACACTCCCTTCCCGGCCAAGGCACTGGCGAAGGGGCTC
ACCTATGGGTGCTATCCTCTCCCAGAAAATGTACCTGAGCCCCTTCGCCAGTGCCTTGGC[TC]GGGAAGGGAGTGTT
GTGTGGAGGAGAGCAGTGGGCAGAGCCTCTCAGCAGCTGGGCGGGT ctg13103 9
A TTCCCCTGCTACCCAGACCCCCCT
A CGCGCCGAGGACTTCCCCAAGCCTCY
A ATGACGTGGCAGACCCTTCCCCAAGCCTY
A AAAGGAGGCTTGGGGAAGTGGGGGGTCTGGGTAGCAGGGGAAGG
A AAAGGAGGCTTGGGGAAGGGGGGGGTCTGGGTAGCAGGGGAAGG
CTGGAGGGGATAGGGGGCTACACTGGAACTGGCCTCCTTCCCCTGCTACCCAGACCCCCC[AC]CTTCCCCAAGCCTC
CTTTCTACTGCTGCTTAGAAGGCCCTGGGCCTGACTGGCCTCCACC ctg15665 20
A CCGGGAGTGGGACCACCAGGCC
A CGCGCCGAGGTGCGGGCGGAATTY
A ATGACGTGGCAGACAGCGGGCGGAATTAY
A GGGTTAATTCCGCCCGCAGCCTGGTGGTCCCACTCCCGGGG
A GGGTTAATTCCGCCCGCTGCCTGGTGGTCCCACTCCCGGGG
CGAAGGGAGAACCAGTGATTCCACGGACCCCGGAATCCCCCGGGAGTGGGACCACCAGGC[TA]GCGGGCGGAATTA
ACCCTGCCGCGGAGGCGCTGGGCGAGGATGAGGGCGGCGAGCGCGGA ctg13980 1
S GGAAGGGGGTCGGCCAGGCTGA
S CGCGCCGAGGTAGGAGGGGACAGTCCY
S ATGACGTGGCAGACCAGGAGGGGACAGTCY
S GGAGGGACTGTCCCCTCCTACAGCCTGGCCGACCCCCTTCCTC
S GGAGGGACTGTCCCCTCCTGCAGCCTGGCCGACCCCCTTCCTC
TTACATTTTCCCTTCAAGAGTCATCTGTGACCTGGTGGTGTGGAGGGACTGTCCCCTCCT[AG]CAGCCTGGCCGACC
CCCTTCCTCCAGGGCTGTGTGGAATCACCTCTCAGAAGCTCACTCT ctg19247 7
A GGCCTGGAGCATAGTGCACCCTGGAGA
A CGCGCCGAGGTTGAAGTTCTGTTCGCCY
A ATGACGTGGCAGACCTGAAGTTCTGTTCGCCY
A TAAAGGCGAACAGAACTTCAACTCCAGGGTGCACTATGCTCCAGGCCCG
A TAAAGGCGAACAGAACTTCAGCTCCAGGGTGCACTATGCTCCAGGCCCG
ACAGACAGCTACAGGAGCATGCCTCTGCTGGGCGGGCCTGGAGCATAGTGCACCCTGGAG[TC]TGAAGTTCTGTTCG
CCTTTACAGGAAGTACACAGCATTGTACGGGGGTTTTACCAGTTAA ctg14946 16
S GGGATGCAAGAATTAGCTCCAGAAGGAGACTCCAT
S ATGACGTGGCAGACGTCACCTGATTGGTAATCTGY
S CGCGCCGAGGCTCACCTGATTGGTAATCTGY
S TTCCCAGATTACCAATCAGGTGACTGGAGTCTCCTTCTGGAGCTAATTCTTGCATCCCAG
S TTCCCAGATTACCAATCAGGTGAGTGGAGTCTCCTTCTGGAGCTAATTCTTGCATCCCAG
TCAGTAATCACCCCAAGCAGGCACAGATTAAGTGACCTTCCCAGATTACCAATCAGGTGA[CG]TGGAGTCTCCTTCTG
GAGCTAATTCTTGCATCCCAGGGCTGGGGCAGAACAATCCTCCTT ctg14243 19
A TGCCTCTTTGTTGGTCTTGCCTTGGGTATTTATTATATAGAGACTAAACAGC
A CGCGCCGAGGAATTTGGAAACCACTGGGY
A ATGACGTGGCAGACTATTTGGAAACCACTGGGY
A ACATCCCAGTGGTTTCCAAATTCTGTTTAGTCTCTATATAATAAATACCCAAGGCAAGACCAACAAAGAGGCAAA
A ACATCCCAGTGGTTTCCAAATACTGTTTAGTCTCTATATAATAAATACCCAAGGCAAGACCAACAAAGAGGCAAA
ATCAGACTTTGCCTCTTTGTTGGTCTTGCCTTGGGTATTTATTATATAGAGACTAAACAG[AT]ATTTGGAAACCACTGG
GATGTTTAGCTATCCCTGCTTTGAACGTTGATTTATTTTATACC ctg15064 7
S GTGAATGGGGGAGGGGCTGGGGT
S ATGACGTGGCAGACCTGGGCAGCCCC
S CGCGCCGAGGATGGGCAGCCCC
S ACTGGGGGCTGCCCAGCCCCAGCCCCTCCCCCATTCACCC
S ACTGGGGGCTGCCCATCCCCAGCCCCTCCCCCATTCACCC
TCGGGGGAGACCTGGGCCTGACCACTCCTTTGCCCCCCCAGGTGGACTGGGGGCTGCCCA[GT]CCCCAGCCCCTCC
CCCATTCACCCGGCCCATCACAAGCGGGATCGCAGACAGATCTTCCT ctg14946 16
S CCAGGCGCTTCTGCAGGTCATCGGT
S ATGACGTGGCAGACGATCGCGGAGGAGC
S CGCGCCGAGGCATCGCGGAGGAGCY
S AGCGGCTCCTCCGCGATCCCGATGACCTGCAGAAGCGCCTGGCA
S AGCGGCTCCTCCGCGATGCCGATGACCTGCAGAAGCGCCTGGCA
GAGCTGCGGGTGCGCCTCGCCTCCCACCTGCGCAAGCTGCGTAAGCGGCTCCTCCGCGAT[CG]CCGATGACCTGCA
GAAGCGCCTGGCAGTGTACCAGGCCGGGGCCCGCGAGGGCGCCGAGC ctg15128 17 APOE
S GTCTGGCCCGAAATAACTGACCCGAAGTAACAGAAT
S CGCGCCGAGGATTTCCCTTTCCTAACCTTCY
S ATGACGTGGCAGACCTTTCCCTTTCCTAACCTTCY
S TAAAGAAGGTTAGGAAAGGGAAATTTCTGTTACTTCGGGTCAGTTATTTCGGGCCAGACCT
S TAAAGAAGGTTAGGAAAGGGAAAGTTCTGTTACTTCGGGTCAGTTATTTCGGGCCAGACCT
AAACTAAAGTCTCGTCTATTAGAATACTAAATTGAACTAAAGAAGGTTAGGAAAGGGAAA[TG]TTCTGTTACTTCGGGT
CAGTTATTTCGGGCCAGACCTTTTTCTTGCTCCTTTGCCAAAAT ctg11 15
S AAATTTTCTTTATAAGTTATAAGAAAATCAGGCGGAGGCTAAACTTTTTTTTTTC
S CGCGCCGAGGTTTTGGCAATGCTGTTGAY
S ATGACGTGGCAGACGTTTGGCAATGCTGTTGY
S ATTCTCAACAGCATTGCCAAAAAAAAAAAAAAGTTTAGCCTCCGCCTGATTTTCTTATAACTTATAAAGAAAATTTGG
S ATTCTCAACAGCATTGCCAAACAAAAAAAAAAGTTTAGCCTCCGCCTGATTTTCTTATAACTTATAAAGAAAATTTGG
AAGACATACATTTATGCTATTGTGGGAACATAATGTAATATTCTCAACAGCATTGCCAAA[AC]AAAAAAAAAAGTTTAGC
CTCCGCCTGATTTTCTTATAACTTATAAAGAAAATTTGGTTTG ctg22fin4 22
A GGACTTGCTTAGGGATAGATGGGAAGTGCCTATCCT
A ATGACGTGGCAGACCAAGGAAGAGACCCAGAY
A CGCGCCGAGGAAAGGAAGAGACCCAGATY
A ACCAATCTGGGTCTCTTCCTTGGGATAGGCACTTCCCATCTATCCCTAAGCAAGTCCGA
A ACCAATCTGGGTCTCTTCCTTTGGATAGGCACTTCCCATCTATCCCTAAGCAAGTCCGA
CTGCGGGCGGAACTCCGTTGCCCTCGGACTTGCTTAGGGATAGATGGGAAGTGCCTATCC[CA]AAGGAAGAGACCCA
GATTGGTGGATGGGAATGAGGGGCGTGGCCTCCCGTAGACTCAGGG ctg25099 7
S GTTGGACTAAGTGGGCAGGCCTTTTACGACAA
S ATGACGTGGCAGACCGATGATAGGACTGTCAGAY
S CGCGCCGAGGTGATGATAGGACTGTCAGAGY
S CTTTCTCTGACAGTCCTATCATCGTGTCGTAAAAGGCCTGCCCACTTAGTCCAACAC
S CTTTCTCTGACAGTCCTATCATCATGTCGTAAAAGGCCTGCCCACTTAGTCCAACAC
AGGGTTTTTCCTGCAGCCCCTACCTAAGACCTTCTCACTTTCTCTGACAGTCCTATCATC[GA]TGTCGTAAAAGGCCTG
CCCACTTAGTCCAACACACTGGAAATGGATGATTGACAACATGT ctg25099 7
A GGTGGATTCTCAGAAAGCTGCGGGGGTT
A CGCGCCGAGGATAGGGGAGTCGGTGAY
A ATGACGTGGCAGACCTAGGGGAGTCGGTGY
A GTGCTCACCGACTCCCCTATACCCCCGCAGCTTTCTGAGAATCCACCGA
A GTGCTCACCGACTCCCCTAGACCCCCGCAGCTTTCTGAGAATCCACCGA

FIGURE 129D

				TCTGGCAGGTTGGTGAGGAACAAGATGTGATTCGGTGGATTCTCAGAAAGCTGCGGGGGT[AC]TAGGGGAGTCGGT			
51919	IS	[AC]		GAGCACAAGAGCCCTGAGTCCAGTGGGAGACCCATAGTACTGCCACT	ctg17465	16	
51936	I		S	GACAACCAACATGCAAACAGGACACAGCACAGT			
51936	P	T	S	CGCGCCGAGGATAAGAAACCAAACGTACTCTTY			
51936	P	C	S	ATGACGTGGCAGACGTAAGAAACCAAACGTACTCTY			
51936	T	T	S	CCTGAAGAGTACGTTTGGTTTCTTATCTGTGCTGTGTCCTGTTTGCATGTTGGTTGTCCT			
51936	T	C	S	CCTGAAGAGTACGTTTGGTTTCTTACCTGTGCTGTGTCCTGTTTGCATGTTGGTTGTCCT			
				CCCACTTGGAAGGACAAAACTGCTATCAGTGAAAACCTGAAGAGTACGTTTGGTTTCTTA[TC]CTGTGCTGTGTCCTGT			
51936	IS	[TC]		TTGCATGTTGGTTGTCCTGCTGGCGTTTATAGTGAGTCGCAGTT	ctg15064	7	
51970	I		S	ACTCAAGGTTGACACAACAGCTCGATAAACCTT			
51970	P	C	S	ATGACGTGGCAGACGTTTTCTCACCCTAGCCY			
51970	P	T	S	CGCGCCGAGGATTTTCTCACCCTAGCCTY			
51970	T	C	S	CCCTAGGCTAGGGTGAGAAAACAGGTTTATCGAGCTGTTGTGTCAACCTTGAGTTC			
51970	T	T	S	CCCTAGGCTAGGGTGAGAAAATAGGTTTATCGAGCTGTTGTGTCAACCTTGAGTTC			
				TCCTAAGTTGGGCCTCTGATTTCTTTTCTCTCCCACTTCCCCTAGGCTAGGGTGAGAAAA[CT]AGGTTTATCGAGCTGT			
51970	IS	[CT]		TGTGTCAACCTTGAGTTCTTATCTTGGAGAAGTCACTCCTGACC			
52006	I		S	ACTGATGAAATGTTATGGGATCAGATTTTCTTAGTGATATATTGAGTATTGAGA			
52006	P	A	S	CGCGCCGAGGTACCAAGAAGAGAACCATGAY			
52006	P	G	S	ATGACGTGGCAGACCACCAAGAAGAGAACCATGY			
52006	T	A	S	CTGTTCATGGTTCTCTTCTTGGTACTCAATACTCAATATATCACTAAGAAAATCTGATCCCATAACATTTCATCAGTAA			
52006	T	G	S	CTGTTCATGGTTCTCTTCTTGGTGCTCAATACTCAATATATCACTAAGAAAATCTGATCCCATAACATTTCATCAGTAA			
				ATGCTCCAGGTCACTGATAGAACATCACAGCACACTGCTGTTCATGGTTCTCTTCTTGGT[AG]CTCAATACTCAATATA			
52006	IS	[AG]		TCACTAAGAAAATCTGATCCCATAACATTTCATCAGTAACATGT	ctg25099	7	
52017	I		S	AGAGCGGCGAGGCATGGGCTGA			
52017	P	A	S	CGCGCCGAGGTGGTTTGTGGAGGTTCTY			
52017	P	G	S	ATGACGTGGCAGACCGGTTTGTGGAGGTTCY			
52017	T	A	S	AACAAGAACCTCCACAAACCACAGCCCATGCCTCGCCGCTCTCC			
52017	T	G	S	AACAAGAACCTCCACAAACCGCAGCCCATGCCTCGCCGCTCTCC			
				AAAGAAACCTGGTAAGGCCAGAGGCTGGGGGAACCGGCCCAACAAGAACCTCCACAAACC[AG]CAGCCCATGCCTCG			
52017	IS	[AG]		CCGCTCTCCCTCCATGCTGGCTTGTGCAGCTGCTGCAGGCCATGGC	ctg14932	16	
52025	I		S	ACCAGAAACAACCTGCGACCCCACCTGT			
52025	P	T	S	CGCGCCGAGGACGTGCGTCTTCCAY			
52025	P	C	S	ATGACGTGGCAGACGCGTGCGTCTTCCY			
52025	T	T	S	GTGCTGGAAGACGCACGTCAGGTGGGGTCGCAGGTTGTTTCTGGTGC			
52025	T	C	S	GTGCTGGAAGACGCACGCCAGGTGGGGTCGCAGGTTGTTTCTGGTGC			
				AGCTCCTTGTGGTCGACCCTTCTGACTTCCATCCCGTTTCCCTGTGCTGGAAGACGCACG[TC]CAGGTGGGGTCGCA			
52025	IS	[TC]		GGTTGTTTCTGGTGCCGGCTTAACCGGCGCAGCACCGAAACCCGTA	ctg_na	NA	
52109	I		A	AGCTGCCCCCAAATGCACGTGTGTTAAAGATT			
52109	P	G	A	ATGACGTGGCAGACGGAAGCTCTAGGTCGGY			
52109	P	A	A	CGCGCCGAGGAGAAGCTCTAGGTCGGY			
52109	T	G	A	GACCCCGACCTAGAGCTTCCATCTTTAACACACGTGCATTTGGGGGCAGCTAT			
52109	T	A	A	GACCCCGACCTAGAGCTTCTATCTTTAACACACGTGCATTTGGGGGCAGCTAT			
				ACCCTTCATTTGTCCTAAATGTTTCAAATAGCTGCCCCCAAATGCACGTGTGTTAAAGAT[GA]GAAGCTCTAGGTCGGG			
52109	IS	[GA]		GTCTGAGAGACAGCTTGACACTTGGTAGAATACATAGACTACTG	ctg18466	16	
52131	I		A	GTACTCCTGATGCCTGAAAATCGTTAAGTGAAGACTTATCACATTACCT			
52131	P	G	A	ATGACGTGGCAGACGATTTGTTCAAAACCACAGCY			
52131	P	A	A	CGCGCCGAGGAATTTGTTCAAAACCACAGCY			
52131	T	G	A	GAACGCTGTGGTTTTGAACAAATCGGTAATGTGATAAGTCTTCACTTAACGATTTTCAGGCATCAGGAGTACAC			
52131	T	A	A	GAACGCTGTGGTTTTGAACAAATTGGTAATGTGATAAGTCTTCACTTAACGATTTTCAGGCATCAGGAGTACAC			
				CCAGGGAATCGTGTACTCCTGATGCCTGAAAATCGTTAAGTGAAGACTTATCACATTACC[GA]ATTTGTTCAAAACCAC			
52131	IS	[GA]		AGCGTTCAAAGAGAAAAAAGAAAAGAAAATGTCAGCAAAAAAA	ctg19148	19	
52139	I		A	CCTGCTTCCCCCTCCCTACTTCCACTCTC			
52139	P	T	A	CGCGCCGAGGTACAAGTGACAGGAAGAAGY			
52139	P	A	A	ATGACGTGGCAGACAACAAGTGACAGGAAGAAGY			
52139	T	T	A	TGTCCTTCTTCCTGTCACTTGTAAGAGTGGAAGTAGGGAGGGGGAAGCAGGAG			
52139	T	A	A	TGTCCTTCTTCCTGTCACTTGTTAGAGTGGAAGTAGGGAGGGGGAAGCAGGAG			
				GTGGAGGAATGACTGTGCTGGAGTCTCATTCTCCTGCTTCCCCCTCCCTACTTCCACTCTTTA]ACAAGTGACAGGAAG			
52139	IS	[TA]		AAGGACAGAAGGAAAGCTCCAACCGGGAGGGAGAAATGGAAAAGG	ctg18433	19	DKFZP434I114
52221	I		A	AGCCTGCAGTGCCTGCATTTTCCCCT			
52221	P	G	A	ATGACGTGGCAGACGAATTGTTTAACCCTCATGCY			
52221	P	A	A	CGCGCCGAGGAAATTGTTTAACCCTCATGCY			
52221	T	G	A	TGAAGCATGAGGGTTAAACAATTCGGGGAAAATGCAGGCACTGCAGGCTCT			
52221	T	A	A	TGAAGCATGAGGGTTAAACAATTTGGGGAAAATGCAGGCACTGCAGGCTCT			
				TGGACAGGGGAAGGGGGAGGGAAGTTGCCATTCAGAGCCTGCAGTGCCTGCATTTTCCCC[GA]AATTGTTTAACCCT			
52221	IS	[GA]		CATGCTTCAGAATTAGGCTGAGGCTTGCGGGGTGGGTCATGTTGAC	ctg15944	11	
52269	I		A	TCCAGGGCCTTCCAACTGTGACAGCCA			
52269	P	C	A	ATGACGTGGCAGACCACAATGTCATCTTTATGATGGGY			
52269	P	T	A	CGCGCCGAGGTACAATGTCATCTTTATGATGGGY			
52269	T	C	A	AAAACCCATCATAAAGATGACATTGTGGGCTGTCACAGTTGGAAGGCCCTGGAAT			
52269	T	T	A	AAAACCCATCATAAAGATGACATTGTAGGCTGTCACAGTTGGAAGGCCCTGGAAT			
				ACTAAGTAAGCTAAATAGTGTGGTCTCATCTAATTCCAGGGCCTTCCAACTGTGACAGCC[CT]ACAATGTCATCTTTAT			
52269	IS	[CT]		GATGGGTTTTTAAACATAAATAGATATCCATCTTCCCATCAATG	ctg16508	19	
52324	I		A	AGTGGGTGGGTATGGGGAACTGGGATAAGGT			
52324	P	A	A	CGCGCCGAGGACAGGAGGCTCTGAGY			
52324	P	C	A	ATGACGTGGCAGACCCAGGAGGCTCTGAGY			
52324	T	A	A	ACTCCTCAGAGCCTCCTGTCCTTATCCCAGTTCCCCATACCCACCCACTCT			
52324	T	C	A	ACTCCTCAGAGCCTCCTGGCCTTATCCCAGTTCCCCATACCCACCCACTCT			
				GGAAGGCTGCTTGGCTAGTGATGGGGCAAGAGTGGGTGGGTATGGGGAACTGGGATAAGG[AC]CAGGAGGCTCTGA			
52324	IS	[AC]		GGAGTCTGGGAACAGACTTTTGCTTCTAAGCAGCTCATTTTTTTCTA			
52334	I		S	AGCCTGCACCCCCAGTGACTGAAAAATGTT			
52334	P	C	S	ATGACGTGGCAGACGCTTTTCCTGAGGGCY			
52334	P	T	S	CGCGCCGAGGACTTTTCCTGAGGGCAY			
52334	T	C	S	CTCGTGCCCTCAGGAAAAGCACATTTTTCAGTCACTGGGGGTGCAGGCTGG			
52334	T	T	S	CTCGTGCCCTCAGGAAAAGTACATTTTTCAGTCACTGGGGGTGCAGGCTGG			
				GGCAGGGCCCCAGCCCTGGGTAAGGGCTGAGTTGGCAGGGCCTCGTGCCCTCAGGAAAAG[CT]ACATTTTTCAGTC			
52334	IS	[CT]		ACTGGGGGTGCAGGCTGGCCCTGTCATTGTCACTCCCCACACAAGTG	MULTIPLE	22	
52459	I		A	CACAGGCCCTTGATCGTTATCCACCCTTTGATGT			
52459	P	C	A	ATGACGTGGCAGACCTGTCAGATTCCAGAACACY			
52459	P	A	A	CGCGCCGAGGATGTCAGATTCCAGAACACY			
52459	T	C	A	CAGCGTGTTCTGGAATCTGACAGCATCAAAGGGTGGATAACGATCAAGGGCCTGTGGG			
52459	T	A	A	CAGCGTGTTCTGGAATCTGACATCATCAAAGGGTGGATAACGATCAAGGGCCTGTGGG			
				TCAACACAGGGAAGGTCACTCATCACCCACAGGCCCTTGATCGTTATCCACCCTTTGATG[CA]TGTCAGATTCCAGAA			
52459	IS	[CA]		CACGCTGCACTAGTCTCTTCCTTCATAGGGAGAGAGGGGATGTGT	ctg15424	2	
52476	I		A	CTCAGCGCCCCCACCCTCAGGT			
52476	P	G	A	ATGACGTGGCAGACGCTGCATGCTCACCY			

FIGURE 129D

52476 P	A	A	CGCGCCGAGGACTGCATGCTCACCCY			
52476 T	G	A	CAGCGGGTGAGCATGCAGCCCTGAGGGTGGGGGGCGCTGAGTG			
52476 T	A	A	CAGCGGGTGAGCATGCAGTCCTGAGGGTGGGGGCGCTGAGTG			
52476 IS	[GA]		TGAGCTCCCCACAGCCGAGCAATGACCTTGCAGCACCCACTCAGCGCCCCCACCCTCAGG[GA]CTGCATGCTCACCC GCTGCAGTTCTTGATTCTTCTCCTCCAACTGTGCTTCCATCTGTCG	ctg22fin3	22	
52523 I		S	GGAGGTGGTCACTAAGGAGGGTGGGGT			
52523 P	C	S	ATGACGTGGCAGACGCCTACAGCTAAGGGATY			
52523 P	T	S	CGCGCCGAGGACCTACAGCTAAGGGATTAY			
52523 T	C	S	ATGCTAATCCCTTAGCTGTAGGCCCCCACCCTCCTTAGTGACCACCTCCAT			
52523 T	T	S	ATGCTAATCCCTTAGCTGTAGGTCCCCACCCTCCTTAGTGACCACCTCCAT			
52523 IS	[CT]		TTGATTTATTCTCCTCTGTTTTCTTCAGGCTTCTCAAAATGCTAATCCCTTAGCTGTAGG[CT]CCCCACCCTCCTTAGT GACCACCTCCATCTAATTTTCATTACGGCATATGATGGGGATGA	ctg53	14	
52600 I		A	ACGATTGGTGGCTTTGTGAAACCTTGCATGAACTC			
52600 P	T	A	CGCGCCGAGGTGATGAACTAGAAGTGGGTY			
52600 P	A	A	ATGACGTGGCAGACAGATGAACTAGAAGTGGGTAY			
52600 T	T	A	GAAATACCCACTTCTAGTTCATCAAGTTCATGCAAGGTTTCACAAAGCCACCAATCGTTT			
52600 T	A	A	GAAATACCCACTTCTAGTTCATCTAGTTCATGCAAGGTTTCACAAAGCCACCAATCGTTT			
52600 IS	[TA]		TAGAAAGCTTTTATAAGATGATTAAAACGATTGGTGGCTTTGTGAAACCTTGCATGAACT[TA]GATGAACTAGAAGTGG GTATTTCAGTAAGTACATTACTTCAGGTTGATCAGTATGATGTA	ctg53	14	
52703 I		A	CGTGTGTGTGTGTGTGTATGTGTGTGTGTGC			
52703 P	T	A	CGCGCCGAGGTGAGAGAGAGAGAGTCAGAY			
52703 P	A	A	ATGACGTGGCAGACAGAGAGAGAGAGAGTCAGAY			
52703 T	T	A	TCTTTCTGACTCTCTCTCTCTCACACACACACACACATACACACACACACACACACGCA			
52703 T	A	A	TCTTTCTGACTCTCTCTCTCTCTCACACACACACACATACACACACACACACACACGCA			
52703 IS	[TA]		AACACTCCAAAATGCCTCTGTGTGTGCGTGTGTGTGTGTGTGTGTATGTGTGTGTGTG[TA]GAGAGAGAGAGAGT CAGAAAGACCTCAAAGAAGAAAGAGGAGAACAAAGATGGTGGGTGA	ctg53	14	
52734 I		A	GCATCCGGCTCCTATCAAAGGAAATCCACAGCA			
52734 P	T	A	CGCGCCGAGGTTTGGCTTTTCGTTGCTY			
52734 P	C	A	ATGACGTGGCAGACCTTGGCTTTTCGTTGCTY			
52734 T	T	A	CAACAGCAACGAAAAGCCAAAGCTGTGGATTTCCTTTGATAGGAGCCGGATGCAG			
52734 T	C	A	CAACAGCAACGAAAAGCCAAGGCTGTGGATTTCCTTTGATAGGAGCCGGATGCAG			
52734 IS	[TC]		CTTCTGAAAGTCCTTCTTCCTAGTCTCTGCATCCGGCTCCTATCAAAGGAAATCCACAGC[TC]TTGGCTTTTCGTTGCT GTTGTCATGGAAATCGTTATAAGGATGGGATCGCGTGGACCAGA			
52755 I		S	CGATGCTGGCCTCAGCTGGGTGATGA			
52755 P	A	S	CGCGCCGAGGTAATCTTGTAGTTGTTCTGCAY			
52755 P	G	S	ATGACGTGGCAGACCAATCTTGTAGTTGTTCTGCY			
52755 T	A	S	AAGATGCAGAACAACTACAAGATTACATCACCCAGCTGAGGCCAGCATCGCT			
52755 T	G	S	AAGATGCAGAACAACTACAAGATTGCATCACCCAGCTGAGGCCAGCATCGCT			
52755 IS	[AG]		AGTGATTCCAGGGCTCTTATGGATTTTACACGTCACAAGATGCAGAACAACTACAAGATT[AG]CATCACCCAGCTGAG GCCAGCATCGCTGAAATGGCAGCAGGGATCATATTACCAGGCTCA	ctg53	14	
52770 I		S	GGCCCCGTGGGCTTCCAGATCACT			
52770 P	C	S	ATGACGTGGCAGACGGTGATGAACCTCTGGY			
52770 P	T	S	CGCGCCGAGGAGTGATGAACCTCTGGCY			
52770 T	C	S	TGAGGCCAGAGGTTCATCACCGTGATCTGGAAGCCCACGGGGCCCC			
52770 T	T	S	TGAGGCCAGAGGTTCATCACTGTGATCTGGAAGCCCACGGGGCCCC			
52770 IS	[CT]		GCGCTGTGGTCCTGTTGGCGTGGTGATGTGGGGCCAATCCTGAGGCCAGAGGTTCATCAC[CT]GTGATCTGGAAGC CCACGGGGCCCCCTGGTAGAAACTGGAAGAACAAAGGGGAAAAGAAA	ctg13361	9	
52786 I		S	AGCAAGTTGTAAACACTGAATTCTATAAACTGTTGGAGACAGT			
52786 P	T	S	CGCGCCGAGGATTCTGGAGAGACACTCAGY			
52786 P	C	S	ATGACGTGGCAGACGTTCTGGAGAGACACTCAY			
52786 T	T	S	AAGCCTGAGTGTCTCTCCAGAATCTGTCTCCAACAGTTTATAGAATTCAGTGTTTACAACTTGCTTT			
52786 T	C	S	AAGCCTGAGTGTCTCTCCAGAACCTGTCTCCAACAGTTTATAGAATTCAGTGTTTACAACTTGCTTT			
52786 IS	[TC]		CTGAACCTCCTCTGTCTTACCCGTTTCTTTCTAGAGCTAAGCCTGAGTGTCTCTCCAGAA[TC]CTGTCTCCAACAGTTT ATAGAATTCAGTGTTTACAACTTGCTTTTCACAAACACCCAAAG	ctg23	17	
61183 I		S	TCACCTTTCCTGACTCTGTGGATGACCGGTGT			
61183 P	G	S	CGCGCCGAGGCTCCACTCACAGCGAY			
61183 P	C	S	ATGACGTGGCAGACGTCCACTCACAGCGAY			
61183 T	G	S	ATCCTCGCTGTGAGTGGAGCACCGGTCATCCACAGAGTCAGGAAAGGTGAGG			
61183 T	C	S	ATCCTCGCTGTGAGTGGACCACCGGTCATCCACAGAGTCAGGAAAGGTGAGG			
61183 IS	[GC]		GAGACTGGCCGCAGTATCCAAGCTAGTGGCGGTCCCAGTGCTATCCTCGCTGTGAGTGGA[GC]CACCGGTCATCCAC AGAGTCAGGAAAGGTGAGGCCTGGAAGCTGGACACCTGCGAGGCCC	ctg15907	6	
61188 I		S	TCATCCTTGTGAATGGGGCCCCCTTGATTTCA			
61188 P	A	S	CGCGCCGAGGTTTCAGCAGCACTATTGGY			
61188 P	G	S	ATGACGTGGCAGACCTTCAGCAGCACTATTGGY			
61188 T	A	S	CAGTCCAATAGTGCTGCTGAAAGAAATCAAGGGGGCCCCATTCACAAGGATGAAA			
61188 T	G	S	CAGTCCAATAGTGCTGCTGAAGGAAATCAAGGGGGCCCCATTCACAAGGATGAAA			
61188 IS	[AG]		GGAGGTGGATTGCATATGAGGGTGAGTTCACCTTGGATTCAGTCCAATAGTGCTGCTGAA[AG]GAAATCAAGGGGGC CCCATTCACAAGGATGAAATCTAGGTGTATGCCAGATTGCTGGAGG	ctg15907	6	
61189 I		S	CAATCTATCCACGACAGCTCCTTGTTCGCCCA			
61189 P	A	S	CGCGCCGAGGTTCTCCTCTCTCACATTCTY			
61189 P	G	S	ATGACGTGGCAGACCTCTCCTCTCTCACATTCTY			
61189 T	A	S	AGTGAGAATGTGAGAGAGGAGAAGGGCGAACAAGGAGCTGTCGTGGATAGATTGCA			
61189 T	G	S	AGTGAGAATGTGAGAGAGGAGAGGGGCGAACAAGGAGCTGTCGTGGATAGATTGCA			
61189 IS	[AG]		AGGGAGACCGGGGCACCCTACAAAGGGGCCCAAGGATGAGTGAGAATGTGAGAGAGGAGA[AG]GGGCGAACAAGGA GCTGTCGTGGATAGATTGCAGAAAAGGATGAAAATGGGCGCGGTGAA	ctg15907	6	
61195 I		A	GAGGGAGTGGCTGGGGCCCAA			
61195 P	C	A	ATGACGTGGCAGACCGCCCACCTTGGCY			
61195 P	T	A	CGCGCCGAGGTGCCCACCTTGGCY			
61195 T	C	A	GATGGCCAAGGTGGGCGTGGGCCCCAGCCACTCCCTCCC			
61195 T	T	A	GATGGCCAAGGTGGGCATGGGCCCCAGCCACTCCCTCCC			
61195 IS	[CT]		GCTTGGGCAGCTGCTGTGCAGTCAGCACCTGTGGGTGAGGGAGGGAGTGGCTGGGGCCCA[CT]GCCCACCTTGGC CATCCCCTCATGGGCCTCAAGCTCACACCACCCTCACTTCCAAATGTC			
61279 I		A	TGTCTGTGCTACTCTTATACCATGGAATATGCTTCAACAAGGGT			
61279 P	C	A	ATGACGTGGCAGACCTGATTATCTAGCTCATTTTAATGCY			
61279 P	A	A	CGCGCCGAGGATGATTATCTAGCTCATTTTAATGCY			
61279 T	C	A	GTTGGCATTAAAATGAGCTAGATAATCAGCCCTTGTTGAAGCATATTCCATGGTATAAGAGTAGCACAGACATG			
61279 T	A	A	GTTGGCATTAAAATGAGCTAGATAATCATCCCTTGTTGAAGCATATTCCATGGTATAAGAGTAGCACAGACATG			
61279 IS	[CA]		TCTTTATCTATGTTTCATGTCTGTGCTACTCTTATACCATGGAATATGCTTCAACAAGGG[CA]TGATTATCTAGCTCATT TTAATGCCAACAGCTTCTCTTTACACCCCCATCTATGCACTGC	ctg14932	16	
61282 I		S	GTGTGTTCCCAAAGATTTAAGAAGCACCTTAAATCTTTAATGATTTTC			
61282 P	A	S	CGCGCCGAGGTTTGGCCTAAATATGTCCTAATY			
61282 P	C	S	ATGACGTGGCAGACGTTGGCCTAAATATGTCCTAAY			
61282 T	A	S	CATAATTAGGACATATTTAGGCCAAAAAAATCATTAAAGATTTAAGGTGCTTCTTAAATCTTTGGGAACACACAT			

FIGURE 129D

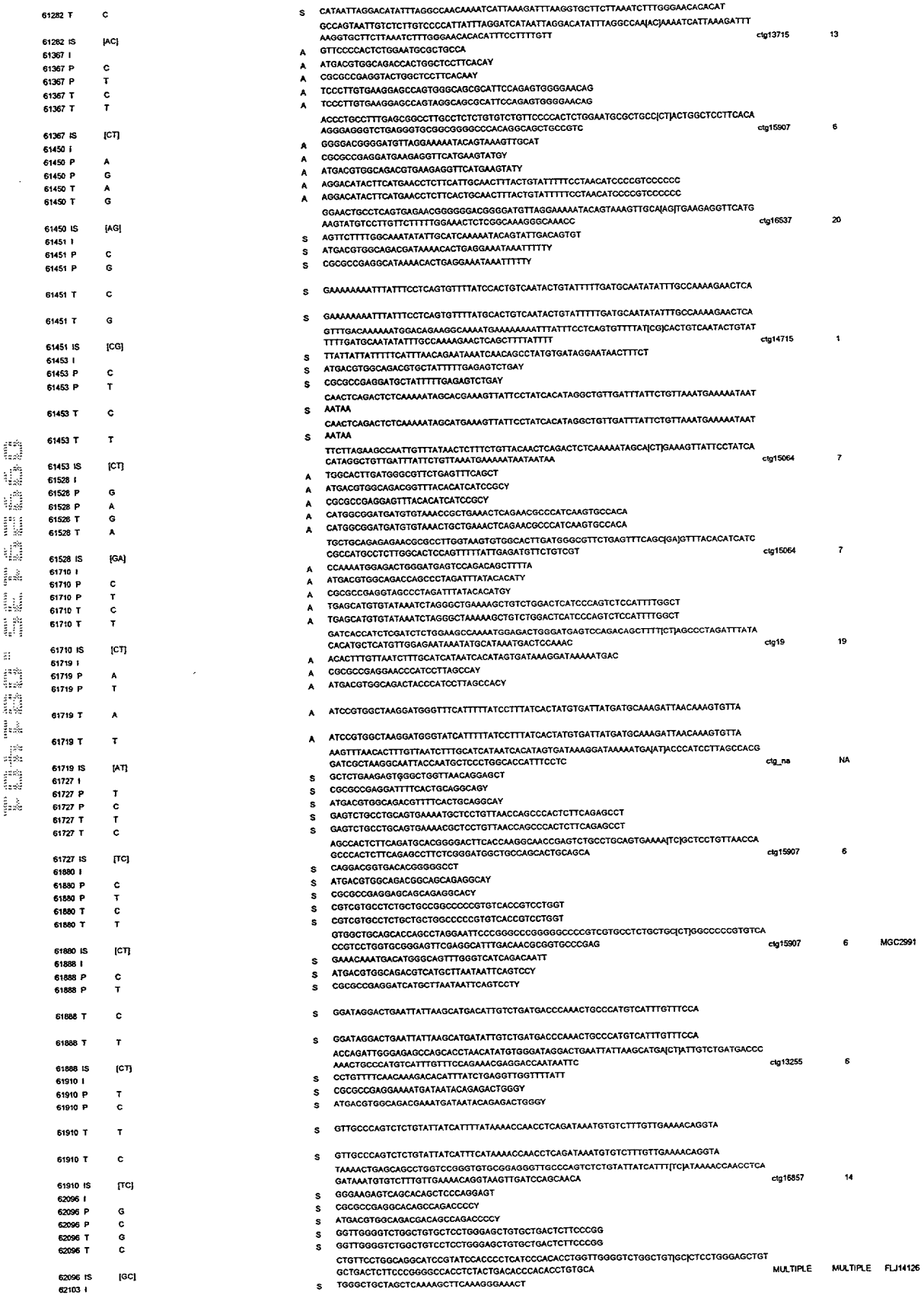


FIGURE 129D

62103 P	G	S	CGCGCCGAGGCGCAGCATTCCATGGY			
62103 P	C	S	ATGACGTGGCAGACGGCAGCATTCCATGGY			
62103 T	G	S	TGTTCCATGGAATGCTGCGGTTTCCCTTTGAAGCTTTTGAGCTAGCAGCCCATT			
62103 T	C	S	TGTTCCATGGAATGCTGCCGTTTCCCTTTGAAGCTTTTGAGCTAGCAGCCCATT			
62103 IS	[GC]		CAGTATTTATTTAATTAAATGGTACTCAACTTCAAACTCCACTGTTCCATGGAATGCTGC[GC]GTTTCCCTTTGAAGCTT TTGAGCTAGCAGCCCATTTCCGGTTCTTCATACAGTCAGCGCA	ctg17748	14
62234 I		A	GGAGCAGGACGTGGCCGCCTTT			
62234 P	G	A	ATGACGTGGCAGACGGCGTTCGTGGGAY			
62234 P	A	A	CGCGCCGAGGAGCGTTCGTGGGAAY			
62234 T	G	A	AGGGTTCCCACGAACGCCAAGGCGGCCACGTCCTGCTCCCC			
62234 T	A	A	AGGGTTCCCACGAACGCTAAGGCGGCCACGTCCTGCTCCCC			
62234 IS	[GA]		CCCTAGGACGACAAGCCCAGGGCAGCTTCTTCACCAGGGGGAGCAGGACGTGGCCGCCTT[GA]GCGTTCGTGGGAA CCCTGGGCGGTGACCGCGCCCCCTCACAGACTTGGCACCGCCCAGAG	ctg18433	19
4701 I		A	CCTAAGCTGCACTTTTCCCCCTAGTTGTGTCTTGCT			
4701 P	G	A	CGCGCCGAGGGATGCTAAAGGACGTCATTGCY			
4701 P	C	A	CGCGCCGAGGCATGCTAAAGGACGTCATTGY			
4701 T	G	A	TTGTGCAATGACGTCCTTTAGCATCGCAAGACACAACTAGGGGGAAAAGTGCAGCTTAGGTC			
4701 T	C	A	TTGTGCAATGACGTCCTTTAGCATGGCAAGACACAACTAGGGGGAAAAGTGCAGCTTAGGTC			
4701 IS	[GC]		AGCGCTAGCCTCAATGACGACCTAAGCTGCACTTTTCCCCCTAGTTGTGTCTTGC[GC]ATGCTAAAGGACGTCATTGC ACAATCTTAATAAGGTTTCCAATCAGCCCCACCCGCTCTGGC	ctg21fin5	21
7281 I		S	ACATGTGGCAAATTATATATGCAAAGGATATTCACTGCAAAATATGTTTGA			
7281 P	A	S	CGCGCCGAGGTAACGGCAAAAGATCAGAAACA			
7281 P	G	S	CGCGCCGAGGCAACGGCAAAAGATCAGAAAC			
7281 T	A	S	GGACTGTTTCTGATCTTTTGCCGTTACAAACATATTTTGCAGTGAATATCCTTTGCATATATAATTTGCCACATGT			
7281 T	G	S	GGACTGTTTCTGATCTTTTGCCGTTGCAAACATATTTTGCAGTGAATATCCTTTGCATATATAATTTGCCACATGT			
7281 IS	[AG]		GTATTTAACCAGTCCCCTAATTGATGGACTGTTTCTGATCTTTTGCCGTT[AG]CAAACATATTTTGCAGTGAATATCCTT TGCATATATAATTTGCCACATGT	ctg11	15
14745 I		S	GCACGTGCGGGAGGAAGTGGAGCTT			
14745 P	G	S	CGCGCCGAGGCCCTGTACGCGCG			
14745 P	C	S	CGCGCCGAGGGCCTGTACGCGCG			
14745 T	G	S	GGGCCGCGCGTACAGGGAGCTCCACTTCCTCCCGCACGTGCCC			
14745 T	C	S	GGGCCGCGCGTACAGGCAGCTCCACTTCCTCCCGCACGTGCCC			
14745 IS	[GC]		GGCCTCCCATCGCTCCACGTTGAGGAGCCGACTAGGGCCGCGCGTACAGG[GC]AGCTCCACTTCCTCCCGCACGTG CCCTGCCAAGGACCCCGAGGACCCTCC	ctg22fin3	22
14783 I		A	AATCATTACTGAATTCATCATACTTTTACAGTAAACAGTACTTACTTTGAT			
14783 P	A	A	CGCGCCGAGGATAATAACACATTACACTTAATAGTAGTGAAC			
14783 P	G	A	CGCGCCGAGGGTAATAACACATTACACTTAATAGTAGTGAAC			
14783 T	A	A	TGCAGTTCACTACTATTAAGTGTAATGTGTTATTATTCAAAGTAAGTACTGTTTACTGTAAAAGTATGATGAATTCAGTA ATGATT			
14783 T	G	A	TGCAGTTCACTACTATTAAGTGTAATGTGTTATTACTCAAAGTAAGTACTGTTTACTGTAAAAGTATGATGAATTCAGTA ATGATT			
14783 IS	[AG]		aatcattactgaattcatcatacttttacagtaaacagtacttacttttgat[AG]taataacacattacacttaatagtagtgaactgcatcctcgatatcaaaa	ctg22fin3	22
14924 I		S	AGCCAAGCAGACCTGCCAGAAAGTTTGCAAGATT			
14924 P	T	S	CGCGCCGAGGAATTAATGCCCAATTTATGCACAT			
14924 P	C	S	CGCGCCGAGGGATTAATGCCCAATTTATGCACA			
14924 T	T	S	AGAAATGTGCATAAATTGGGCATTAATTATCTTGCAAACTTTCTGGCAGGTCTGCTTGGCTGG			
14924 T	C	S	AGAAATGTGCATAAATTGGGCATTAATCATCTTGCAAACTTTCTGGCAGGTCTGCTTGGCTGG			
14924 IS	[TC]		tatataactcacctgccatatcaagaaatgtgcataaattgggcattaat[TC]atcttgcaaacttctggcaggtctgcttggctggctagtttcacacacg	ctg17042	11
23406 I		A	CACCCGCACACCTGCCTGAGGGAGT			
23406 P	A	A	CGCGCCGAGGAAGCCCTCCGTCTGC			
23406 P	G	A	CGCGCCGAGGGAGCCCTCCGTCTGC			
23406 T	A	A	GCAGGCAGACGGAGGGCTTCTCCCTCAGGCAGGTGTGCGGGTGGC			
23406 T	G	A	GCAGGCAGACGGAGGGCTCCTCCCTCAGGCAGGTGTGCGGGTGGC			
23406 IS	[AG]		GGTGGAGTTGACAGGCTGGAAGTTGCCACCCGCACACCTGCCTGAGGGAG[AG]AGCCCTCCGTCTGCCTGCAGGCC TGTGTCCTCCCTGCTCTACCCACACTC	ctg15330	9
23501 I		S	TCGCCCCAGCCTCTTTGCTCACGCT			
23501 P	T	S	CGCGCCGAGGAGGGACCCCCAGGAY			
23501 P	C	S	CGCGCCGAGGGGGGACCCCCAGGY			
23501 T	T	S	GGCATCCTGGGGGTCCCTGCGTGAGCAAAGAGGCTGGGGCGAGC			
23501 T	C	S	GGCATCCTGGGGGTCCCCGCGTGAGCAAAGAGGCTGGGGCGAGC			
23501 IS	[TC]		GGTGACGGCTTCAAACCCGGCCTGTGGGCTGGGGGCATCCTGGGGGTCCC[TC]GCGTGAGCAAAGAGGCTGGGGC GAGCCGGGCAGCTTTGAGAAAAGTACAC	ctg16291	9
45286 I		S	CTGGTACGCAAGGTGTGATGGTCGCAGCT			
45286 P	C	S	CGCGCCGAGGGTGCATGGGTGTTGTACA			
45286 P	T	S	CGCGCCGAGGATGCATGGGTGTTGTACAC			
45286 T	C	S	GTGCGTGTACAACACCCATGCACGCTGCGACCATCACACCTTGCGTACCAGTC			
45286 T	T	S	GTGCGTGTACAACACCCATGCATGCTGCGACCATCACACCTTGCGTACCAGTC			
45286 IS	[CT]		CCTCAGTCTGGTCAGATGCCTCCCTTTTGTGCGTGTACAACACCCATGCA[CT]GCTGCGACCATCACACCTTGCGTAC CAGTCAGTGATGCTCTAGTCTCTAT	ctg16291	9
45367 I		A	GGAGGTAAGGTCTATATGAATACTTATTAGTGAACAGCATATAGTTGGTCT			
45367 P	G	A	CGCGCCGAGGGTTGTGGGTAAGTGGGAGA			
45367 P	A	A	CGCGCCGAGGATTGTGGGTAAGTGGGAGA			
45367 T	G	A	GAAATCTCCCACTTACCCACAACGACCAACTATATGCTGTTCACTAATAAGTATTCATATAGACCTTACCTCC			
45367 T	A	A	GAAATCTCCCACTTACCCACAATGACCAACTATATGCTGTTCACTAATAAGTATTCATATAGACCTTACCTCC			
45367 IS	[GA]		GGAGGTAAGGTCTATATGAATACTTATTAGTGAACAGCATATAGTTGGTC[GA]TTGTGGGTAAGTGGGAGATTTCCTT GACAGGTTATTCCCTCAGACACACA	ctg25099	7
45375 I		S	GTGTCTTGGGTATGAATTCTAGCTTTGCTACTCACTCACTATATGACCTT			
45375 P	C	S	CGCGCCGAGGGACAAATCCTTCAAGCCCC			
45375 P	T	S	CGCGCCGAGGAACAAATCCTTCAAGCCCC			
45375 T	C	S	CACAGGGGCTTGAAGGATTTGTCAGGTCATATAGTGAGTGAGTAGCAAAGCTAGAATTCATACCCAAGACACT			
45375 T	T	S	CACAGGGGCTTGAAGGATTTGTTAGGTCATATAGTGAGTGAGTAGCAAAGCTAGAATTCATACCCAAGACACT			
45375 IS	[CT]		CCTCATGCTTAGGGGAAACCTCAGTAAGCACAGGGGCTTGAAGGATTTGT[CT]AGGTCATATAGTGAGTGAGTAGCAA AGCTAGAATTCATACCCAAGACACT	MULTIPLE	MULTIPLE	
45469 I		S	AGGCAACTTGAGTGACAGTATCAATGACTTTTCTTCTTTTCTAATTCAATA			
45469 P	A	S	CGCGCCGAGGTTAAAGTCAGTTAACATTTCAAGTAATAGG			
45469 P	G	S	CGCGCCGAGGCTAAAGTCAGTTAACATTTCAAGTAATAGG			
45469 T	A	S	TTAACCTATTACTTGAAATGTTAACTGACTTTAAATTGAATTAGAAAAGAAGAAAAGTCATTGATACTGTCACTCAAGTT GCCT			
45469 T	G	S	TTAACCTATTACTTGAAATGTTAACTGACTTTAGATTGAATTAGAAAAGAAGAAAAGTCATTGATACTGTCACTCAAGTT GCCT			

FIGURE 129D

			TATTTACTAAATGATGATTAACCTATTACTTGAAATGTTAACTGACTTTA[AG]ATTGAATTAGAAAAGAAGAAAAGTCATT				
45469 IS	[AG]		GATACTGTCACTCAAGTTGCCT	ctg16291	9		
47419 I		A	CCCTTAAAGACCCATTGTAAGGTCATAAAAAACCTCGGCCAT				
47419 P	C	A	CGCGCCGAGGCCTGCACAAAGATGGTGC				
47419 P	A	A	CGCGCCGAGGACTGCACAAAGATGGTGC				
47419 T	C	A	TGAGGCACCATCTTTGTGCAGGTGGCCGAGGTTTTTTATGACCTTACAATGGGTCTTTAAGGGCG				
47419 T	A	A	TGAGGCACCATCTTTGTGCAGTTGGCCGAGGTTTTTTATGACCTTACAATGGGTCTTTAAGGGCG				
			aatagatcgccctaaagacccattgtaaggtcataaaaaacctcggcca[CA]ctgcacaaagatggtgcctcactgcaacaagaaacctaaggtgtcttac				
47419 IS	[CA]			ctg16114	X	KDELR3	
48114 I		A	AGACGCACAGATGAGGATGGATTATAACAACACGAAA				
48114 P	T	A	CGCGCCGAGGTGCTTGGAACAGGCCAY				
48114 P	C	A	CGCGCCGAGGCGCTTGGAACAGGCCY				
48114 T	T	A	GCCATGGCCTGTTCCAAGCATTCGTGTTGTTATAATCCATCCTCATCTGTGCGTCTTG				
48114 T	C	A	GCCATGGCCTGTTCCAAGCGTTCGTGTTGTTATAATCCATCCTCATCTGTGCGTCTTG				
			catgacttttacaagacgcacagatgaggatggattataacaacacgaa[TC]gcttggaacaggccatggcagaaaaataactaacggctatatttaagtgg				
48114 IS	[TC]			ctg14243	19		
48131 I		S	ACACAGATGCATGCCAGCTTTTTGCTGTTT				
48131 P	C	S	CGCGCCGAGGGTGCAACTTTTCCATCATTACAG				
48131 P	T	S	CGCGCCGAGGATGCAACTTTTCCATCATTACAG				
48131 T	C	S	CAATCTGTAATGATGGAAAAGTTGCACAACAGCAAAAAGCTGGCATGCATCTGTGTCA				
48131 T	T	S	CAATCTGTAATGATGGAAAAGTTGCATAACAGCAAAAAGCTGGCATGCATCTGTGTCA				
			caagatcagcattgtcaagtgcaacaatctgtaatgatggaaaagttgca[CT]aacagcaaaaagctggcatgcatctgtgtcattaaaaactcagtatgatt				
48131 IS	[CT]			ctg14243	19		
60795 I		S	TCATGCATTTTTTCAGAGTATAGGTTTTTGAAGAACACATGTATTGTATTT				
60795 P	C	S	CGCGCCGAGGGTAACAGCAGATACAGCTGTATT				
60795 P	T	S	CGCGCCGAGGATAACAGCAGATACAGCTGTATTTAA				
60795 T	C	S	GAAGTTAAATACAGCTGTATCTGCTGTTACAATACAATACATGTGTTCTTCAAAAACCTATACTCTGAAAAAATGCATGA				
60795 T	T	S	GAAGTTAAATACAGCTGTATCTGCTGTTATAATACAATACATGTGTTCTTCAAAAACCTATACTCTGAAAAAATGCATGA				
			cattaggtatatictctagtgaagttaaatacagctgtatctgctgtta[CT]aatacaatacatgtgtctctcaaaaacctatactctgaaaaaatgcatga				
60795 IS	[CT]			ctg14243	19		
60797 I		S	AATGTAAACATTAAAAAGCATTATTTAAATTAAGGTAAAACTAGAAACAAT				
60797 P	G	S	CGCGCCGAGGCTGGATACTTAATAAGTAAAACATATACTTTCAA				
60797 P	T	S	CGCGCCGAGGATGGATACTTAATAAGTAAAACATATACTTTCAAA				
60797 T	G	S	TTTATTTGAAAGTATATGTTTTACTTATTAAGTATCCAGTTGTTTCTAGTTTTACCTTAATTTAAATAATGCTTTTTAATGT TTACATT				
60797 T	T	S	TTTATTTGAAAGTATATGTTTTACTTATTAAGTATCCATTTGTTTCTAGTTTTACCTTAATTTAAATAATGCTTTTTAATGT TTACATT				
			ggcigtatatatttattgaaagtatatgtttacttattaagtatcca[GT]tgtttctagttttaccttaatttaaatatgctttttaatgtttacatt				
60797 IS	[GT]			ctg15944	11		
60798 I		S	GAAAGGAACAGGGGCTGGTTCGCAGCTTT				
60798 P	T	S	CGCGCCGAGGAAAAGATGGAGGCGGGAY				
60798 P	C	S	CGCGCCGAGGGAAAGATGGAGGCGGGAY				
60798 T	T	S	CTCTTCCCGCCTCCATCTTTTAAGCTGCGAACCAGCCCCTGTTCCTTTCAC				
60798 T	C	S	CTCTTCCCGCCTCCATCTTTCAAGCTGCGAACCAGCCCCTGTTCCTTTCAC				
			cggccactggcttccacctccccatcttictctcccgcctccatctt[TC]aagctgcgaaccagccctgttccttcactgtccagctgtcaatgagcc				
60798 IS	[TC]			ctg13740	5		
60815 I		S	GCCTCTTCAATGTGCCCAGATTCCCAGGTCACT				
60815 P	C	S	CGCGCCGAGGGCTCCTTCAGCCACCT				
60815 P	T	S	CGCGCCGAGGACTCCTTCAGCCACCTT				
60815 T	C	S	ATGAAAGGTGGCTGAAGGAGCGTGACCTGGGAATCTGGGCACATTGAAGAGGCAG				
60815 T	T	S	ATGAAAGGTGGCTGAAGGAGTGTGACCTGGGAATCTGGGCACATTGAAGAGGCAG				
			gggttttcccttccaccttagcagccaagtcatgaaaggtggctgaaggag[CT]gtgacctgggaatctgggcacattgaagaggcagcatggcaggaatgtca				
60815 IS	[CT]			ctg15064	7		
60830 I		S	GCCTTTGTAGGGTTTCTAACTTTTTGAAGTGTGATTTAATAACCCTTATAA				
60830 P	A	S	CGCGCCGAGGTCCCACTAAAAGTAGGATGC				
60830 P	G	S	CGCGCCGAGGCCCCACTAAAAGTAGGATGC				
60830 T	A	S	CTCCGCATCCTACTTTTAGTGGGATATAAGGGTTATTAAATCACACTTCAAAAAGTTAGAAACCCTACAAAGGC				
60830 T	G	S	CTCCGCATCCTACTTTTAGTGGGGTATAAGGGTTATTAAATCACACTTCAAAAAGTTAGAAACCCTACAAAGGC				
			atttagttttaataagcttttttaaaclccgcatcctacttttagtggg[AG]tataagggttattaaatcacacttcaaaaagttagaaacccctacaaaggc				
60830 IS	[AG]			ctg15064	7		
60833 I		S	AGTGGGGTAATAAAATGGTGGTGGAGCAATTAATTGTCCATATGGAAAAA				
60833 P	A	S	CGCGCCGAGGTGATAAAATTTAATTCTTACCTCATTCCC				
60833 P	G	S	CGCGCCGAGGCGATAAAATTTAATTCTTACCTCATTCCC				
60833 T	A	S	TCTGGGGAATGAGGTAAGAATTAAATTTTATCATTTTCCATATGGACAATTAATTGCTCCACCACCATTTTATTACCCCA CTG				
60833 T	G	S	TCTGGGGAATGAGGTAAGAATTAAATTTTATCGTTTTCCATATGGACAATTAATTGCTCCACCACCATTTTATTACCCCA CTG				
			atttagttttaatcggtctgggaatgaggtaagaattaaatttatc[AG]tttccatatggacaattaattgctccaccaccatttattacccccactg				
60833 IS	[AG]			ctg13206	14		
60858 I		S	AGACTATTCCGGCAAAGAATGGCTCCATAGCTGCTACT				
60858 P	C	S	CGCGCCGAGGGGCTTGCTTTATTCATTTTCCA				
60858 P	T	S	CGCGCCGAGGAGCTTGCTTTATTCATTTTCCAG				
60858 T	C	S	AAAACTGGAAAATGAATAAAGCAAGCCGTAGCAGCTATGGAGCCATTCTTTGCCGGAATAGTCTAA				
60858 T	T	S	AAAACTGGAAAATGAATAAAGCAAGCTGTAGCAGCTATGGAGCCATTCTTTGCCGGAATAGTCTAA				
			actttttactaacaagttactttaaaaactggaaaatgaataaagcaagc[CT]gtagcagctatggagccattcttgccggaatagtctaaacccagggtgag				
60858 IS	[CT]			ctg19247	7		
60859 I		S	AGACCCTGTCTCTGGTCTCTGAAAAAAAAAAAAAAAAAGAATGGAACAGAGT				
60859 P	T	S	CGCGCCGAGGAAGACGAGTTCTAGCCATCT				
60859 P	C	S	CGCGCCGAGGGAGACGAGTTCTAGCCATCT				
60859 T	T	S	GAGAAGATGGCTAGAACTCGTCTTCTCTGTTCCATTCTTTTTTTTTTTTTTTCAGAGACCAGAGACAGGGTCT				
60859 T	C	S	GAGAAGATGGCTAGAACTCGTCTCCTCTGTTCCATTCTTTTTTTTTTTTTTTCAGAGACCAGAGACAGGGTCT				
			taaiccacctegatcttacaatcaacagagagaagatggctagaactcgtct[TC]ctcigttccattcttttttttttttcagagaccagagagcaggtct				
60859 IS	[TC]			ctg19247	7		
60870 I		A	CCACTTTTTCCCCCTTCACTTTGTGAAATTCCTGTGACTACTTAATCTTGT				
60870 P	A	A	CGCGCCGAGGATTTCCATTACATATCTATTTCCAAAGTC				
60870 P	G	A	CGCGCCGAGGGTTTCCATTACATATCTATTTCCAAAGTC				
60870 T	A	A	AATTGACTTTGGAAATAGATATGTAATGGAAATCAAGATTAAGTAGTCACAGGAATTTCACAAAGTGAAGGGGGAAAAA GTGG				
60870 T	G	A	AATTGACTTTGGAAATAGATATGTAATGGAAACCAAGATTAAGTAGTCACAGGAATTTCACAAAGTGAAGGGGGAAAAA GTGG				
			ccacttttcccccticacttigtgaaattcctgtgactacttaaictig[AG]tttccattacatatctatticcaaagtcaatictttaactctttaagttic				
60870 IS	[AG]			ctg25099	7		
60878 I		S	CTTTCAGTTTTTCTCTCACTGAAGTATTGTTTAGGGAAGAGCTTTTAAAAC				
60878 P	C	S	CGCGCCGAGGGTTCAGAATTGTTCTGTGTTATTATTG				

FIGURE 129D

60878 P	A	S	CGCGCCGAGGTTTCAGAATTGTTCTGTGTTATTATTGC			
60878 T	C	S	AATTGCAATAATAACACAGAACAATTCTGAACTTTTAAAAGCTCTTCCCTAAACAATACTTCAGTGAGAGAAAAACTGAA AG			
60878 T	A	S	AATTGCAATAATAACACAGAACAATTCTGAAATTTTAAAAGCTCTTCCCTAAACAATACTTCAGTGAGAGAAAAACTGAA AG			
60878 IS	[CA]		nnnnnnnnnnnnattactaattgcaatatatacacagaacaattctgaa[CA]ttttaaaagctcttcccctaaacaatacttcagtgagagaaaaactgaaag	ctg25099	7	
60903 I		S	AGCACAAAGGGTGATAACCCTCACTCTGCAATATGTGTGA			
60903 P	G	S	CGCGCCGAGGCCTCTTAACCCCTATCACTTCA			
60903 P	A	S	CGCGCCGAGGTCTCTTAACCCCTATCACTTCA			
60903 T	G	S	AATGTGAAGTGATAGGGGTTAAGAGGCACACATATTGCAGAGTGAGGGTTATCACCCTTTGTGCTGG			
60903 T	A	S	AATGTGAAGTGATAGGGGTTAAGAGACACACATATTGCAGAGTGAGGGTTATCACCCTTTGTGCTGG			
60903 IS	[GA]		agcttgtgagtgactagatttatataaatgtgaagtgatagggggtaagag[GA]cacacatattgcagagtgagggttatcacccttttgtgctgggtcagaatg	ctg18037	7	
60904 I		A	GGGAAAGAGAATTATTAGGACAGGCAGGACGTTGTGCAGT			
60904 P	G	A	CGCGCCGAGGGGCCTCGGATCCTGG			
60904 P	C	A	CGCGCCGAGGCGCCTCGGATCCTGG			
60904 T	G	A	TTGCCCAGGATCCGAGGCCCTGCACAACGTCCTGCCTGTCCTAATAATTCTCTTTCCCAG			
60904 T	C	A	TTGCCCAGGATCCGAGGCGCTGCACAACGTCCTGCCTGTCCTAATAATTCTCTTTCCCAG			
60904 IS	[GC]		tactggatgctgggaaagagaattattaggacaggcaggacgttgtgcag[GC]gcctcggatcctgggcaaagtataaggcgtggaagctccatactaatctg			
60913 I		A	CACATAAGCAAGTGCTCACATCTTGTCTCTCCCTGCT			
60913 P	G	A	CGCGCCGAGGGAGTACCTGATTCTCCGTAGAT			
60913 P	A	A	CGCGCCGAGGAAGTACCTGATTCTCCGTAGAT			
60913 T	G	A	CCAAATCTACGGAGAATCAGGTACTCGCAGGGAGAGACAAGATGTGAGCACTTGCTTATGTGGG			
60913 T	A	A	CCAAATCTACGGAGAATCAGGTACTTGCAGGGAGAGACAAGATGTGAGCACTTGCTTATGTGGG			
60913 IS	[GA]		ggcgcatctgccccacataagcaagtgctcacatcttgtctctcccctgc[GA]agtacctgatttctccgtagatttggagctagttagttgccttttcatctc	ctg15590	7	
60914 I		S	AAGACAAACTTTTGGCTTTGTTTTCCATTTCATAGTTTTTGTTCTTTAGAT			
60914 P	T	S	CGCGCCGAGGATATCCATCTTTCTACTTTATTTGGATTG			
60914 P	C	S	CGCGCCGAGGGTATCCATCTTTCTACTTTATTTGGATTG			
60914 T	T	S	ATCACAATCCAAATAAAGTAGAAAGATGGATATTCTAAAGAACAAAAACTATGAAATGGAAAACAAAGCCAAAAGTTTGT CTT			
60914 T	C	S	ATCACAATCCAAATAAAGTAGAAAGATGGATACTCTAAAGAACAAAAACTATGAAATGGAAAACAAAGCCAAAAGTTTGT CTT			
60914 IS	[TC]		ctgagaaattgaaacaaatcacaatccaaataaagtagaaagatggata[TC]ctaaagaacaaaaactatgaaatggaaaacaaagccaaaagtttgtctt	ctg15804	2	
60915 I		A	CTTGTTTATGATGTTTTTTGACATACAATAAGCTTTAACTTTTAATTTAGA			
60915 P	T	A	CGCGCCGAGGTGAAAGAATGTCGTGCTTTCA			
60915 P	C	A	CGCGCCGAGGCGAAAGAATGTCGTGCTTTC			
60915 T	T	A	TAAATGAAAGCACGACATTCTTTCACTAAATTAAAAGTTAAAGCTTATTGTATGTCAAAAAACATCATAAACAAG			
60915 T	C	A	TAAATGAAAGCACGACATTCTTTCGCTAAATTAAAAGTTAAAGCTTATTGTATGTCAAAAAACATCATAAACAAG			
60915 IS	[TC]		ctgttatgatgttttttgacatacaataagcttaacttttaatttag[TC]gaaagaatgtcgtgctttcattatggttgtatttttcattgtctagta	ctg14708	2	
60935 I		S	TCAGGTATTGTACTAAGTGCTAACTTCCTGTACCTCATCTTCCATTTTCTA			
60935 P	A	S	CGCGCCGAGGTAACTGTCCCGCAGACA			
60935 P	G	S	CGCGCCGAGGCAACTGTCCCGCAGAC			
60935 T	A	S	AACCTGTCTGCGGGACAGTTAAGAAAATGGAAGATGAGGTACAGGAAGTTAGCACTTAGTACAATACCTGA			
60935 T	G	S	AACCTGTCTGCGGGACAGTTGAGAAAATGGAAGATGAGGTACAGGAAGTTAGCACTTAGTACAATACCTGA			
60935 IS	[ag]		tgcgctacgtcicagcttcatatctataaaacctgtctgcgggacagtt[ag]agaaaatggaagatgaggtacaggaagttagcacttagtacaatacctga	ctg14708	2	
60940 I		S	AGGAGGTCTTGAGAAGAAAATGCCCACTCTCCCAATTCA			
60940 P	A	S	CGCGCCGAGGTTCTGCCTCAGCCTTG			
60940 P	G	S	CGCGCCGAGGCTCTGCCTCAGCCTTG			
60940 T	A	S	CTAGCAAGGCTGAGGCAGAAGAATTGGGAGAGTGGGCATTTTCTTCTCAAGACCTCCTGT			
60940 T	G	S	CTAGCAAGGCTGAGGCAGAGGAATTGGGAGAGTGGGCATTTTCTTCTCAAGACCTCCTGT			
60940 IS	[ag]		gtggcgaggccgctgggctggatgcagagctctagcaaggctgaggcaga[ag]gaattgggagagtgggcatttttcttctcaagacctcctgtctcctctact			
60941 I		S	TGAAGGGCAAAAGTTTCAATTGGCCTGCTTTCTCTGGT			
60941 P	G	S	CGCGCCGAGGCCTTCTGTTATTTCCAGGTGC			
60941 P	T	S	CGCGCCGAGGACTTCTGTTATTTCCAGGTGC			
60941 T	G	S	ATCAGCACCTGGAAATAACAGAAGGCCAGAGAAAGCAGGCCAATTGAAACTTTTGCCCTTCATA			
60941 T	T	S	ATCAGCACCTGGAAATAACAGAAGTCCAGAGAAAGCAGGCCAATTGAAACTTTTGCCCTTCATA			
60941 IS	[gt]		agtaaattggagttttgcactgagaatcagcacctggaaataacagaag[gt]ccagagaaagcaggccaattgaaacttttgcccttcatattgaaagcag	ctg16564	19	
60947 I		A	GCCTCAAACCTTTTATTCATGATGCATCCCAAAAGGAATGCTA			
60947 P	C	A	CGCGCCGAGGCTCCTCCAGGGTACCTTC			
60947 P	T	A	CGCGCCGAGGTTCCTCCAGGGTACCTTC			
60947 T	C	A	CCGAGAAGGTACCCTGGAGGAGAGCATTCCTTTTGGGATGCATCATGAATAAAAGGTTTGAGGCAG			
60947 T	T	A	CCGAGAAGGTACCCTGGAGGAAAGCATTCCTTTTGGGATGCATCATGAATAAAAGGTTTGAGGCAG			
60947 IS	[CT]		tcatgctgcctcaaacctttattcatgatgccatcccaaaaggaatgc[CT]tcctccagggtacctctcggcccatttctctccttaaactagtttcctt	ctg16235	17	
60950 I		A	AGAACAAGAAGGATAGAAATAGGAAAAGGTGAAAAATCAGTAAGACAATAA			
60950 P	C	A	CGCGCCGAGGCATTGGAAAGGAGTACAGTAGTT			
60950 P	T	A	CGCGCCGAGGTATTGGAAAGGAGTACAGTAGTTG			
60950 T	C	A	CTTCCAACTACTGTACTCCTTTCCAATGTATTGTCTTACTGATTTTTCACCTTTTCCTATTTCTATCCTTCTTGTTCT			
60950 T	T	A	CTTCCAACTACTGTACTCCTTTCCAATATATTGTCTTACTGATTTTTCACCTTTTCCTATTTCTATCCTTCTTGTTCT			
60950 IS	[CT]		agaacaagaggatagaaatagggaaaaggtgaaaaatcagtaagacaata[CT]attggaaaggagtacagtagttggaagaattaatgatcactatttctag	MULTIPLE	MULTIPLE	
60951 I		A	CCTGAATGTGGACAAAGTAAAAGACAGAAAGAGAGTGCTGGTGAAATTAA			
60951 P	T	A	CGCGCCGAGGTATGCAGCCTCTTTTTATTAACACT			
60951 P	C	A	CGCGCCGAGGCATGCAGCCTCTTTTTATTAACAC			
60951 T	T	A	CTTGAGTGTTAATAAAAAGAGGCTGCATATAATTTCACCAGCACTCTCTTTCTGTCTTTTACTTTGTCCACATTCAGGA			
60951 T	C	A	CTTGAGTGTTAATAAAAAGAGGCTGCATGTAATTTCACCAGCACTCTCTTTCTGTCTTTTACTTTGTCCACATTCAGGA			
60951 IS	[TC]		tcctgaatgtggacaaagtaaaagacagaaagagagagctggtgaaatta[TC]atgcagcctcttttattaacactcaagttaatctagtgttttaaaaat	ctg13420	5	
60963 I		S	ACTTATGTCAGATTATCTTACTTCTAAAACTATAATGTCCATTTCTTCACA			
60963 P	G	S	CGCGCCGAGGCATGGGGTAACATCTAGAGGY			
60963 P	A	S	CGCGCCGAGGTATGGGGTAACATCTAGAGGCY			

FIGURE 129D

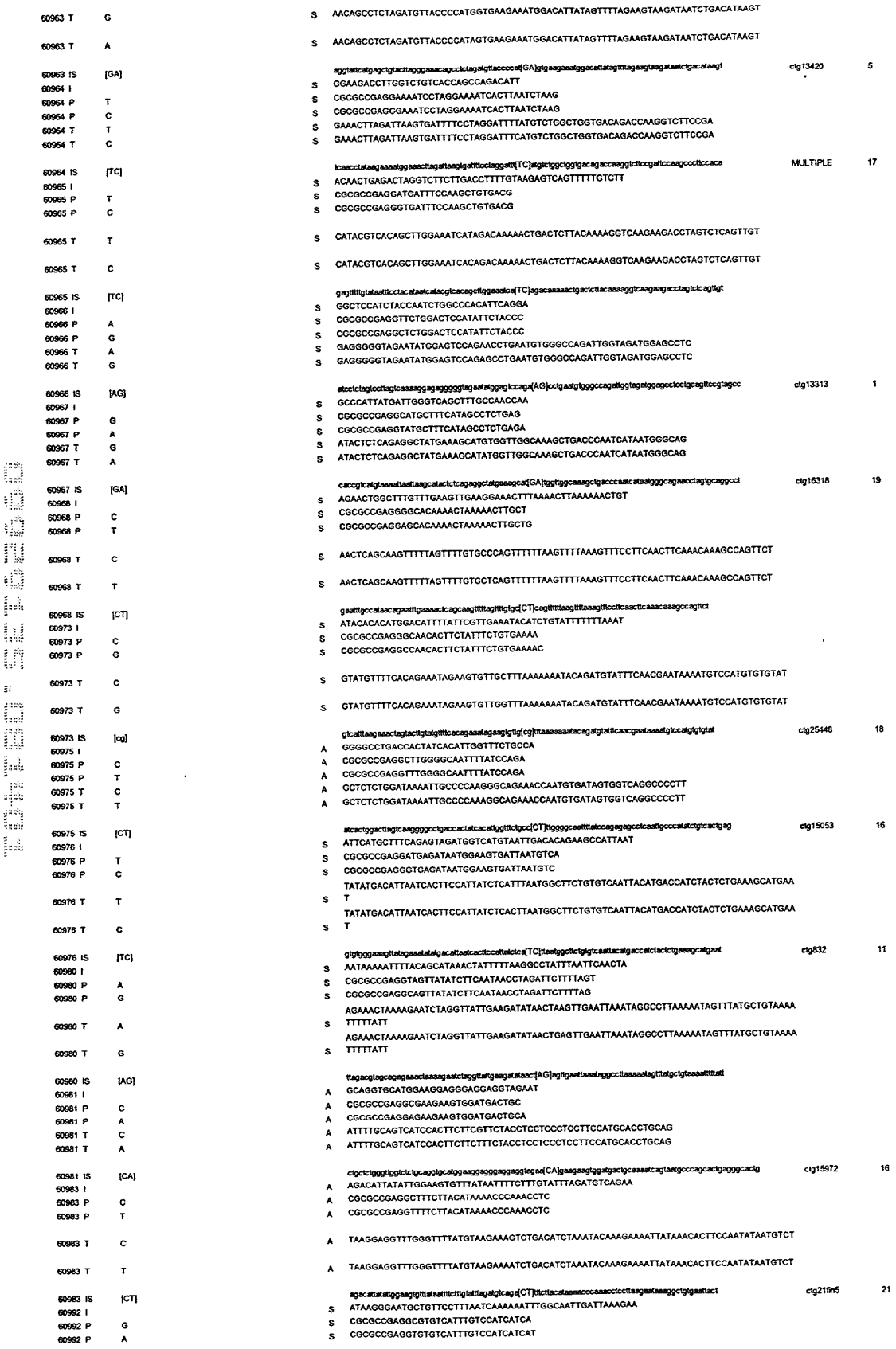

60963 T G S AACAGCCTCTAGATGTTACCCCATGGTGAAGAAATGGACATTATAGTTTTAGAAGTAAGATAATCTGACATAAGT
60963 T A S AACAGCCTCTAGATGTTACCCCATAGTGAAGAAATGGACATTATAGTTTTAGAAGTAAGATAATCTGACATAAGT
60963 IS [GA] aggtattcatgagctgtacttagggaaacagcctctagatgttaccccat[GA]gtgaagaaatggacattatagttttagaagtaagataatctgacataagt ctg13420 5
60964 I S GGAAGACCTTGGTCTGTCACCAGCCAGACATT
60964 P T S CGCGCCGAGGAAAATCCTAGGAAAATCACTTAATCTAAG
60964 P C S CGCGCCGAGGGAAATCCTAGGAAAATCACTTAATCTAAG
60964 T T S GAAACTTAGATTAAGTGATTTTCCTAGGATTTTATGTCTGGCTGGTGACAGACCAAGGTCTTCCGA
60964 T C S GAAACTTAGATTAAGTGATTTTCCTAGGATTTCATGTCTGGCTGGTGACAGACCAAGGTCTTCCGA
60964 IS [TC] tcaacctataagaaaatggaaacttagattaagtgatttcctaggatt[TC]atgtctggctggtgacagaccaaggtcttccgatttccaagccctttccaca MULTIPLE 17
60965 I S ACAACTGAGACTAGGTCTTCTTGACCTTTTGTAAGAGTCAGTTTTTGTCTT
60965 P T S CGCGCCGAGGATGATTTCCAAGCTGTGACG
60965 P C S CGCGCCGAGGGTGATTTCCAAGCTGTGACG
60965 T T S CATACGTCACAGCTTGGAAATCATAGACAAAAACTGACTCTTACAAAAGGTCAAGAAGACCTAGTCTCAGTTGT
60965 T C S CATACGTCACAGCTTGGAAATCACAGACAAAAACTGACTCTTACAAAAGGTCAAGAAGACCTAGTCTCAGTTGT
60965 IS [TC] gagttttgtatatttcctactatatcatacgtcacagctttggaaatca[TC]agacaaaaactgacictiacaaaaggtcaagaagacctagtctcagttgt
60966 I S GGCTCCATCTACCAATCTGGCCCACATTCAGGA
60966 P A S CGCGCCGAGGTTCTGGACTCCATATTCTACCC
60966 P G S CGCGCCGAGGCTCTGGACTCCATATTCTACCC
60966 T A S GAGGGGGTAGAATATGGAGTCCAGAACCTGAATGTGGGCCAGATTGGTAGATGGAGCCTC
60966 T G S GAGGGGGTAGAATATGGAGTCCAGAGCCTGAATGTGGGCCAGATTGGTAGATGGAGCCTC
60966 IS [AG] atcctctagtcctagtcaaaaggagaggggtagaatatggagtccaga[AG]cctgaatgtgggccagattggtagatggagcctcctgcagttccgtagcc ctg13313 1
60967 I S GCCCATTATGATTGGGTCAGCTTTGCCAACCAA
60967 P G S CGCGCCGAGGCATGCTTTCATAGCCTCTGAG
60967 P A S CGCGCCGAGGTATGCTTTCATAGCCTCTGAGA
60967 T G S ATACTCTCAGAGGCTATGAAAGCATGTGGTTGGCAAAGCTGACCCAATCATAATGGGCAG
60967 T A S ATACTCTCAGAGGCTATGAAAGCATATGGTTGGCAAAGCTGACCCAATCATAATGGGCAG
60967 IS [GA] catcgtcatgtaaaattaattaagcatactctctcagaggctatgaaagcat[GA]tggttggcaaagctgacccaatcataatgggcagaacctagtgcaggcct ctg16318 19
60968 I S AGAACTGGCTTTGTTTGAAGTTGAAGGAAACTTTAAAACTTAAAAAACTGT
60968 P C S CGCGCCGAGGGGCACAAAACTAAAAACTTGCT
60968 P T S CGCGCCGAGGAGCACAAAACTAAAAACTTGCTG
60968 T C S AACTCAGCAAGTTTTTAGTTTTGTGCCCAGTTTTTTAAGTTTTAAAGTTTCCTTCAACTTCAAACAAAGCCAGTTCT
60968 T T S AACTCAGCAAGTTTTTAGTTTTGTGCTCAGTTTTTTAAGTTTTAAAGTTTCCTTCAACTTCAAACAAAGCCAGTTCT
60968 IS [CT] gaatttgccatatacagaatttgaaaactcagcaagttttagtttgtgc[CT]cagttttttaagtttaaagtttccttcaacttcaaacaaagccagttct
60973 I S ATACACACATGGACATTTTATTCGTTGAAATACATCTGTATTTTTTTAAAT
60973 P C S CGCGCCGAGGGCAACACTTCTATTTCTGTGAAAA
60973 P G S CGCGCCGAGGCCAACACTTCTATTTCTGTGAAAAC
60973 T C S GTATGTTTTCACAGAAATAGAAGTGTTGCTTTAAAAAAATACAGATGTATTTCAACGAATAAAATGTCCATGTGTGTAT
60973 T G S GTATGTTTTCACAGAAATAGAAGTGTTGGTTTAAAAAAATACAGATGTATTTCAACGAATAAAATGTCCATGTGTGTAT
60973 IS [cg] gtcattaagaaactagtactgtatgtttcacagaaatagaagtgttg[cg]tttaaaaaaatacagatgtatttcaacgaataaaatgtccatgtgtgtat ctg25448 18
60975 I A GGGGCCTGACCACTATCACATTGGTTTCTGCCA
60975 P C A CGCGCCGAGGCTTGGGGCAATTTTATCCAGA
60975 P T A CGCGCCGAGGTTTGGGGCAATTTTATCCAGA
60975 T C A GCTCTCTGGATAAAATTGCCCCAAGGGCAGAAACCAATGTGATAGTGGTCAGGCCCCTT
60975 T T A GCTCTCTGGATAAAATTGCCCCAAAGGCAGAAACCAATGTGATAGTGGTCAGGCCCCTT
60975 IS [CT] atcactggacttagtcaaggggcctgaccactatcacatggtttctgcc[CT]tggggcaatttatccagagagcctcaatgcccatatctgtcactgag ctg15053 16
60976 I S ATTCATGCTTTCAGAGTAGATGGTCATGTAATTGACACAGAAGCCATTAAT
60976 P T S CGCGCCGAGGATGAGATAATGGAAGTGATTAATGTCA
60976 P C S CGCGCCGAGGGTGAGATAATGGAAGTGATTAATGTC
60976 T T S TATATGACATTAATCACTTCCATTATCTCATTTAATGGCTTCTGTGTCAATTACATGACCATCTACTCTGAAAGCATGAA T
60976 T C S TATATGACATTAATCACTTCCATTATCTCACTTAATGGCTTCTGTGTCAATTACATGACCATCTACTCTGAAAGCATGAA T
60976 IS [TC] gtgtgggaaagttatagaaatatatgacattaatcacttccattatctca[TC]ttaatggcttctgtgtcaattacatgaccatctactctgaaagcatgaat ctg832 11
60980 I S AATAAAAATTTTACAGCATAAACTATTTTTAAGGCCTATTTAATTCAACTA
60980 P A S CGCGCCGAGGTAGTTATATCTTCAATAACCTAGATTCTTTTAGT
60980 P G S CGCGCCGAGGCAGTTATATCTTCAATAACCTAGATTCTTTTAG
60980 T A S AGAAACTAAAAGAATCTAGGTTATTGAAGATATAACTAAGTTGAATTAAATAGGCCTTAAAAATAGTTTATGCTGTAAAA TTTTTATT
60980 T G S AGAAACTAAAAGAATCTAGGTTATTGAAGATATAACTGAGTTGAATTAAATAGGCCTTAAAAATAGTTTATGCTGTAAAA TTTTTATT
60980 IS [AG] ttagacgtagcagagaaactaaaagaatctaggttatgaagatataact[AG]agttgaattaaataggccttaaaaatagtttatgctgtaaaatttttatt
60981 I A GCAGGTGCATGGAAGGAGGGAGGAGGTAGAAT
60981 P C A CGCGCCGAGGCGAAGAAGTGGATGACTGC
60981 P A A CGCGCCGAGGAGAAGAAGTGGATGACTGCA
60981 T C A ATTTTGCAGTCATCCACTTCTTCGTTCTACCTCCTCCCTCCTTCCATGCACCTGCAG
60981 T A A ATTTTGCAGTCATCCACTTCTTCTTTCTACCTCCTCCCTCCTTCCATGCACCTGCAG
60981 IS [CA] ctgctctgggttggtctctgcaggtgcatggaaggagggaggtagaat[CA]gaagaagtggatgactgcaaaatcagtaatgcccagcactgagggcactg ctg15972 16
60983 I A AGACATTATATTGGAAGTGTTTATAATTTTCTTTGTATTTAGATGTCAGAA
60983 P C A CGCGCCGAGGCTTTCTTACATAAAACCCAAACCTC
60983 P T A CGCGCCGAGGTTTTCTTACATAAAACCCAAACCTC
60983 T C A TAAGGAGGTTTGGGTTTTATGTAAGAAAGTCTGACATCTAAATACAAAGAAAATTATAAACACTTCCAATATAATGTCT
60983 T T A TAAGGAGGTTTGGGTTTTATGTAAGAAAATCTGACATCTAAATACAAAGAAAATTATAAACACTTCCAATATAATGTCT
60983 IS [CT] agacatatatggaagtgtttataatttcttgtatttagatgtcagt[CT]ttcttacataaaaccccaaacctccttaagaataaaggctgtgaattact ctg21fin5 21
60992 I S ATAAGGGAATGCTGTTCCTTTAATCAAAAAATTTGGCAATTGATTAAAGAA
60992 P G S CGCGCCGAGGCGTGTCATTTGTCCATCATCA
60992 P A S CGCGCCGAGGTGTGTCATTTGTCCATCATCAT

FIGURE 129D

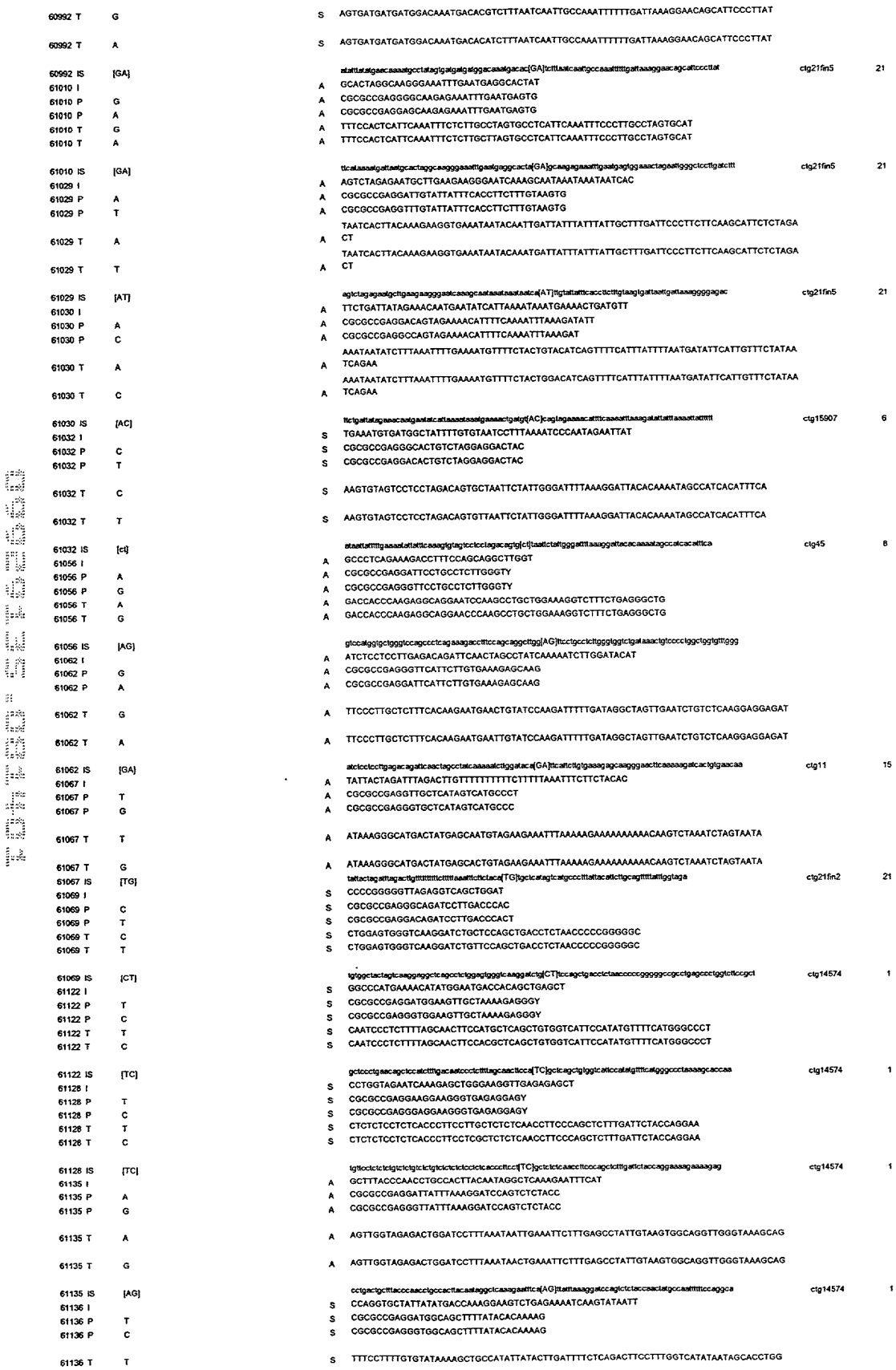

60992 T G S AGTGATGATGATGGACAAATGACACGTCTTTAATCAATTGCCAAATTTTTTGATTAAAGGAACAGCATTCCCTTAT
60992 T A S AGTGATGATGATGGACAAATGACACATCTTTAATCAATTGCCAAATTTTTTGATTAAAGGAACAGCATTCCCTTAT
60992 IS [GA] atattatatgaacaaaatgccttatagtgatgatgatggacaaatgacac[GA]tcttaatcaattgccaaatttttgattaaaggaacagcattccctta ctg21fin5 21
61010 I A GCACTAGGCAAGGGAAATTTGAATGAGGCACTAT
61010 P G A CGCGCCGAGGGGCAAGAGAAATTTGAATGAGTG
61010 P A A CGCGCCGAGGAGCAAGAGAAATTTGAATGAGTG
61010 T G A TTTCCACTCATTCAAATTTCTCTTGCCTAGTGCCTCATTCAAATTTCCCTTGCCTAGTGCAT
61010 T A A TTTCCACTCATTCAAATTTCTCTTGCTTAGTGCCTCATTCAAATTTCCCTTGCCTAGTGCAT
61010 IS [GA] ttcataaaatgattaatgcactaggcaagggaaattgaatgaggcacta[GA]gcaagagaaatttgaatgagtgggaactagaatgggctcctttgatctttt ctg21fin5 21
61029 I A AGTCTAGAGAATGCTTGAAGAAGGGAATCAAAGCAATAAATAAATAATCAC
61029 P A A CGCGCCGAGGATTGTATTATTTCACCTTCTTTGTAAGTG
61029 P T A CGCGCCGAGGTTTGTATTATTTCACCTTCTTTGTAAGTG
61029 T A A TAATCACTTACAAAGAAGGTGAAATAATACAATTGATTATTTATTTATTGCTTTGATTCCCTTCTTCAAGCATTCTCTAGA CT
61029 T T A TAATCACTTACAAAGAAGGTGAAATAATACAAATGATTATTTATTTATTGCTTTGATTCCCTTCTTCAAGCATTCTCTAGA CT
61029 IS [AT] agtctagagaatgctgaagaagggaatcaaagcaataaataaataatca[AT]ttgtattatttcacctcttttgtaagtgattaattgattaaaggggagac ctg21fin5 21
61030 I A TTCTGATTATAGAAACAATGAATATCATTAAAATAAATGAAAACTGATGTT
61030 P A A CGCGCCGAGGACAGTAGAAAACATTTTCAAAATTTAAAGATATT
61030 P C A CGCGCCGAGGCCAGTAGAAAACATTTTCAAAATTTAAAGAT
61030 T A A AAATAATATCTTTAAATTTTGAAAATGTTTTCTACTGTACATCAGTTTTCATTTATTTTAATGATATTCATTGTTTCTATAA TCAGAA
61030 T C A AAATAATATCTTTAAATTTTGAAAATGTTTTCTACTGGACATCAGTTTTCATTTATTTTAATGATATTCATTGTTTCTATAA TCAGAA
61030 IS [AC] ttctgattatagaaacaatgaatatcattaaaataaatgaaaactgatgt[AC]cagtagaaaacatttcaaaatttaaagatattattaaaattattttt ctg15907 6
61032 I S TGAAATGTGATGGCTATTTTGTGTAATCCTTTAAAATCCCAATAGAATTAT
61032 P C S CGCGCCGAGGGCACTGTCTAGGAGGACTAC
61032 P T S CGCGCCGAGGACACTGTCTAGGAGGACTAC
61032 T C S AAGTGTAGTCCTCCTAGACAGTGCTAATTCTATTGGGATTTTAAAGGATTACACAAAATAGCCATCACATTTCA
61032 T T S AAGTGTAGTCCTCCTAGACAGTGTTAATTCTATTGGGATTTTAAAGGATTACACAAAATAGCCATCACATTTCA
61032 IS [ct] ataattatttttgaaaatattattcaaagtgtagtcctcctagacagtg[ct]taatctattgggatttaaaggattacacaaaatagccatcacatttca ctg45 8
61056 I A GCCCTCAGAAAGACCTTTCCAGCAGGCTTGGT
61056 P A A CGCGCCGAGGATTCCTGCCTCTTGGGTY
61056 P G A CGCGCCGAGGGTTCCTGCCTCTTGGGTY
61056 T A A GACCACCCAAGAGGCAGGAATCCAAGCCTGCTGGAAAGGTCTTTCTGAGGGCTG
61056 T G A GACCACCCAAGAGGCAGGAACCCAAGCCTGCTGGAAAGGTCTTTCTGAGGGCTG
61056 IS [AG] gtccatggtgctgggtccagccctcagaaagacctttccagcaggcttgg[AG]ttcctgcctctgggtggtctgattaaactgtcccctggctggtgttggg ctg14574 1
61062 I A ATCTCCTCCTTGAGACAGATTCAACTAGCCTATCAAAAATCTTGGATACAT
61062 P G A CGCGCCGAGGGTTCATTCTTGTGAAAGAGCAAG
61062 P A A CGCGCCGAGGATTCATTCTTGTGAAAGAGCAAG
61062 T G A TTCCCTTGCTCTTTCACAAGAATGAACTGTATCCAAGATTTTTGATAGGCTAGTTGAATCTGTCTCAAGGAGGAGAT
61062 T A A TTCCCTTGCTCTTTCACAAGAATGAATTGTATCCAAGATTTTTGATAGGCTAGTTGAATCTGTCTCAAGGAGGAGAT
61062 IS [GA] atctcctcctgagacagatcaactagcctatcaaaaatctggatacat[GA]ttcattctgtgaaagagcaagggaacttcaaaaagatcactgtgaacaa ctg11 15
61067 I A TATTACTAGATTTAGACTTGTTTTTTTTTTCTTTTTAAATTTCTTCTACAC
61067 P T A CGCGCCGAGGTTGCTCATAGTCATGCCCT
61067 P G A CGCGCCGAGGGTGCTCATAGTCATGCCC
61067 T T A ATAAAGGGCATGACTATGAGCAATGTAGAAGAAATTTAAAAAGAAAAAAAAAACAAGTCTAAATCTAGTAATA
61067 T G A ATAAAGGGCATGACTATGAGCACTGTAGAAGAAATTTAAAAAGAAAAAAAAAACAAGTCTAAATCTAGTAATA
61067 IS [TG] tattactagaattagacttgttttttttttcttttaaatttcttctaca[TG]tgctcatagtcatgccctttattacattcttgcagttttattttggtaga ctg21fin2 21
61069 I S CCCCGGGGGTTAGAGGTCAGCTGGAT
61069 P C S CGCGCCGAGGGCAGATCCTTGACCCAC
61069 P T S CGCGCCGAGGACAGATCCTTGACCCACT
61069 T C S CTGGAGTGGGTCAAGGATCTGCTCCAGCTGACCTCTAACCCCCGGGGGC
61069 T T S CTGGAGTGGGTCAAGGATCTGTTCCAGCTGACCTCTAACCCCCGGGGGC
61069 IS [CT] tgtggctactagtcaaggaggctcagcctctggagtgggtcaaggatctgt[CT]tccagctgacctctaacccccgggggccgcctgagcccttggtcttccgct ctg14574 1
61122 I S GGCCCATGAAAACATATGGAATGACCACAGCTGAGCT
61122 P T S CGCGCCGAGGATGGAAGTTGCTAAAAGAGGGY
61122 P C S CGCGCCGAGGGTGGAAGTTGCTAAAAGAGGGY
61122 T T S CAATCCCTCTTTTAGCAACTTCCATGCTCAGCTGTGGTCATTCCATATGTTTTCATGGGCCCT
61122 T C S CAATCCCTCTTTTAGCAACTTCCACGCTCAGCTGTGGTCATTCCATATGTTTTCATGGGCCCT
61122 IS [TC] gctcccctgaacagctccatctttgacaatcccttttagcaactcca[TC]gctcagctgtggtcatttccatatgtttcatgggccctaaaagcaccaa ctg14574 1
61128 I S CCTGGTAGAATCAAAGAGCTGGGAAGGTTGAGAGAGCT
61128 P T S CGCGCCGAGGAAGGAAGGGTGAGAGGAGY
61128 P C S CGCGCCGAGGGAGGAAGGGTGAGAGGAGY
61128 T T S CTCTCTCCTCTCACCCTTCCTTGCTCTCTCAACCTTCCCAGCTCTTTGATTCTACCAGGAA
61128 T C S CTCTCTCCTCTCACCCTTCCTCGCTCTCTCAACCTTCCCAGCTCTTTGATTCTACCAGGAA
61128 IS [TC] tgttcctctctctgtctctgtctctctctcctctcaccctccttcct[TC]gctctctcaaccttcccagctctttgattctaccaggaaaagaaaagag ctg14574 1
61135 I A GCTTTACCCAACCTGCCACTTACAATAGGCTCAAAGAATTTCAT
61135 P A A CGCGCCGAGGATTATTTAAAGGATCCAGTCTCTACC
61135 P G A CGCGCCGAGGGTTATTTAAAGGATCCAGTCTCTACC
61135 T A A AGTTGGTAGAGACTGGATCCTTTAAATAATTGAAATTCTTTGAGCCTATTGTAAGTGGCAGGTTGGGTAAAGCAG
61135 T G A AGTTGGTAGAGACTGGATCCTTTAAATAACTGAAATTCTTTGAGCCTATTGTAAGTGGCAGGTTGGGTAAAGCAG
61135 IS [AG] cctgactgctttacccaacctgccactacaataggctcaaagaatttca[AG]ttatttaaaggatccagtctctacccaactatgccaatttttccaggca ctg14574 1
61136 I S CCAGGTGCTATTATATGACCAAAGGAAGTCTGAGAAAATCAAGTATAATT
61136 P T S CGCGCCGAGGATGGCAGCTTTTATACACAAAAG
61136 P C S CGCGCCGAGGGTGGCAGCTTTTATACACAAAAG
61136 T T S TTTCCTTTTGTGTATAAAAGCTGCCATATTATACTTGATTTTCTCAGACTTCCTTTGGTCATATAATAGCACCTGG

FIGURE 129D

61136 T	C	S	TTTCCTTTTGTGTATAAAAGCTGCCACATTATACTTGATTTTCTCAGACTTCCTTTGGTCATATAATAGCACCTGG				
61136 IS	[TC]		agatcigtatgggggatacacatatttcctttgigtataaaagctgcca[TC]atiatactigatttctcagacttcctiggtcatatiaatagcacctgg	ctg22fin4	22		
13849 I		S	CGCCCTGGCATAATTCAGTGGCCAGTT				
13849 P	C	S	ATGACGTGGCAGACGCCCGGCCCCY				
13849 P	G	S	CGCGCCGAGGCCCCGGCCCCAY				
13849 T	C	S	CAGGTGGGGCCGGGCACTGGCCACTGAATTATGCCAGGGCGCA				
13849 T	G	S	CAGGTGGGGCCGGGGACTGGCCACTGAATTATGCCAGGGCGCA				
13849 IS	[CG]		AGTGGTCAAGCCCTTGCCCAGAGCTCTCTATTCTGGAAGAGCGGTCCAGGTGGGGCCGGG[CG]ACTGGCCACTGAA TTATGCCAGGGCGCACTTTCCACTGGAGTTCACTTTCAATTGCTTCT	ctg22fin4	22	NEFH	
17609 I		S	ACTGCCTTTTTCTCTGCCAGCATAGTCCTTATGCAT				
17609 P	T	S	CGCGCCGAGGAGAGCTGCTTGACAACY				
17609 P	C	S	ATGACGTGGCAGACGGAGCTGCTTGACAACY				
17609 T	T	S	CAAGGTTGTCAAGCAGCTCTTGCATAAGGACTATGCTGGCAGAGAAAAAGGCAGTTT				
17609 T	C	S	CAAGGTTGTCAAGCAGCTCCTGCATAAGGACTATGCTGGCAGAGAAAAAGGCAGTTT				
17609 IS	[TC]		GCACACCTTTTACCACATTCACCTGGGGTCAGTGTAGACGCCAAGGTTGTCAAGCAGCTC[TC]TGCATAAGGACTATG CTGGCAGAGAAAAAGGCAGTTTCCCTGAGGTCAAAGGAGGTGTTT	ctg22fin7	22		
18306 I		A	TTGGTTATAACCCAGTGAAGACGCAAATCACTACTAGT				
18306 P	G	A	ATGACGTGGCAGACGTATTTATCTCATCAGGCTCAY				
18306 P	A	A	CGCGCCGAGGATATTTATCTCATCAGGCTCAGY				
18306 T	G	A	CATCCTGAGCCTGATGAGATAAATACCTAGTAGTGATTTGCGTCTTCACTGGGTTATAACCAATT				
18306 T	A	A	CATCCTGAGCCTGATGAGATAAATATCTAGTAGTGATTTGCGTCTTCACTGGGTTATAACCAATT				
18306 IS	[GA]		TAGTTGTAGTCTTTATATTTAAATTGGTTATAACCCAGTGAAGACGCAAATCACTACTAG[GA]TATTTATCTCATCAGGC TCAGGATGGAGAAAATTTCAGAGGCAACGGAGAACTCCAAGAC	ctg15665	20		
18677 I		A	AGAGGAGGCCGAGGCCAGGGTT				
18677 P	G	A	ATGACGTGGCAGACGACTGCCTCAGAGTAGCY				
18677 P	A	A	CGCGCCGAGGAACTGCCTCAGAGTAGCY				
18677 T	G	A	TCTTGCTACTCTGAGGCAGTCACCCTGGCCTCGGCCTCCTCTGC				
18677 T	A	A	TCTTGCTACTCTGAGGCAGTTACCCTGGCCTCGGCCTCCTCTGC				
18677 IS	[GA]		GGAAAGAGCCCCTTAGGTGGTGGCCACAGCCAGGCCTGCAGAGGAGGCCGAGGCCAGGGT[GA]ACTGCCTCAGAGT AGCAAGAAAGGCCCGCTGCCCGCAGCCTCTCCCCTGGTTCTCAGAAC	ctg15361	6		
19146 I		S	GCCCAGGCCTGGGGATGAGAAGAGTTGT				
19146 P	C	S	ATGACGTGGCAGACGAGGATGAAAAGCAGAGAGY				
19146 P	T	S	CGCGCCGAGGAAGGATGAAAAGCAGAGAGY				
19146 T	C	S	TTTCCTCTCTGCTTTTCATCCTCCAACTCTTCTCATCCCCAGGCCTGGGCCG				
19146 T	T	S	TTTCCTCTCTGCTTTTCATCCTTCAACTCTTCTCATCCCCAGGCCTGGGCCG				
19145 IS	[CT]		GAACCCCAACTCCCAACCTGGAATTTGGTATCTGTCCCTTTCCTCTCTGCTTTTCATCCT[CT]CAACTCTTCTCATCCC CAGGCCTGGGCCGCACCCACTCATCCAGACTCCTTCCCCTCTCG	ctg15361	6		
20307 I		A	GCAGCTCCGGGGCTCTGCTGGTTTATA				
20307 P	C	A	ATGACGTGGCAGACCCTGGTGGTGGGATTY				
20307 P	T	A	CGCGCCGAGGTCTGGTGGTGGGATTAGY				
20307 T	C	A	TCACCTAATCCCACCACCAGGATAAACCAGCAGAGCCCCGGAGCTGCTC				
20307 T	T	A	TCACCTAATCCCACCACCAGAATAAACCAGCAGAGCCCCGGAGCTGCTC				
20307 IS	[CT]		GTGGTCCATGGGGGTGGGGGATGACTGACGGAGAGCAGCTCCGGGGCTCTGCTGGTTTAT[CT]CTGGTGGTGGGAT TAGGTGACAGGTGTGGCTGGGCTCAGCACCTGAGGTCCTGCCCAGAC	ctg16955	1		
20745 I		S	CAGCCTACAGGGCCCCCAGTCCTAGT				
20745 P	C	S	ATGACGTGGCAGACGGGAAAGTCCGGGAGY				
20745 P	T	S	CGCGCCGAGGAGGAAAGTCCGGGAGY				
20745 T	C	S	TAGACTCCCGGACTTTCCCCTAGGACTGGGGGCCCTGTAGGCTGCT				
20745 T	T	S	TAGACTCCCGGACTTTCCTCTAGGACTGGGGGCCCTGTAGGCTGCT				
20745 IS	[CT]		AAGAGAGCGTGCCTCAGGTTACTTGAACTTGAACGGAGACTGTAGACTCCCGGACTTTCC[CT]CTAGGACTGGGGGC CCTGTAGGCTGCTGTTGGAGGACTGGGTAGAGACATTGGAGGGAAG	ctg16128	1		
20844 I		S	AAGTAGAGTTCATGAACAGCCAATTAATAGGAATGTTGTAGGAGAGAACTTT				
20844 P	G	S	CGCGCCGAGGCAGATTAAATGGATTTGGAAAGAY				
20844 P	C	S	ATGACGTGGCAGACGAGATTAAATGGATTTGGAAAGAGY				
20844 T	G	S	GCCTCTCTTTCCAAATCCATTTAATCTGAAGTTCTCTCCTACAACATTCCTATTAATTGGCTGTTCATGAACTCTACTTG T				
20844 T	C	S	GCCTCTCTTTCCAAATCCATTTAATCTCAAGTTCTCTCCTACAACATTCCTATTAATTGGCTGTTCATGAACTCTACTTG T				
20844 IS	[GC]		TCAACCTGTTTGAATTTGTCCTATAACTGGATAGCCTCTCTTTCCAAATCCATTTAATCT[GC]AAGTTCTCTCCTACAAC ATTCCTATTAATTGGCTGTTCATGAACTCTACTTGTCGAACTT	ctg16128	1		
21426 I		A	GACTTACCTGTTTTTAAAGTTTTGGCTCGGTTCACTA				
21426 P	T	A	CGCGCCGAGGTTTTAAAGAAAATTAAAAATAAAGTAAAGGAGY				
21426 P	C	A	ATGACGTGGCAGACCTTTAAAGAAAATTAAAAATAAAGTAAAGGAGY				
21426 T	T	A	TAGCCTCCTTTACTTTATTTTTAATTTTCTTTAAAAAGTGAACCGAGCCAAAACTTTAAAAACAGGTAAGTCAG				
21426 T	C	A	TAGCCTCCTTTACTTTATTTTTAATTTTCTTTAAAGAGTGAACCGAGCCAAAACTTTAAAAACAGGTAAGTCAG				
21426 IS	[TC]		AAAGCCATTTGTTTTAAACATTCTGACTTACCTGTTTTTAAAGTTTTGGCTCGGTTCACT[TC]TTTAAAGAAAATTAAAAA TAAAGTAAAGGAGGCTATGAAGTAGTAAAATAATAAAATGTG	ctg13446	1		
24032 I		S	CCAGCAGCCCATGGGGCCTGAT				
24032 P	G	S	ATGACGTGGCAGACCGGGAAATGAGGCAGY				
24032 P	T	S	CGCGCCGAGGAGGGAAATGAGGCAGY				
24032 T	G	S	AGCAGCTGCCTCATTTCCCGTCAGGCCCCATGGGCTGCTGGTC				
24032 T	T	S	AGCAGCTGCCTCATTTCCCTTCAGGCCCCATGGGCTGCTGGTC				
24032 IS	[GT]		ATTTCCCAGCAGTCCCCAGATGGTTGTTTCCGTGGGGACACAGCAGCTGCCTCATTTCCC[GT]TCAGGCCCCATGGG CTGCTGGTCAACCTCAGGATCTACTAAAGATGACGCAAATGCCGAC	ctg22fin4	22		
24338 I		S	GCCCTAGGGGCTTTACTCTGGTGTTATTGTTTGATTTTTGT				
24338 P	C	S	ATGACGTGGCAGACGGGGGAGTTTCTTTTGGY				
24338 P	T	S	CGCGCCGAGGAGGGGAGTTTCTTTTGGY				
24338 T	C	S	GGTGCCAAAAGAAACTCCCCCCAAAAATCAAACAATAACACCAGAGTAAAGCCCCTAGGGCGA				
24338 T	T	S	GGTGCCAAAAGAAACTCCCCTCAAAAATCAAACAATAACACCAGAGTAAAGCCCCTAGGGCGA				
24338 IS	[CT]		GGCTACTGACTAAACAGATGAAAATGAAGGTATGGAGTTTGGTGCCAAAAGAAACTCCCC[CT]CAAAAATCAAACAATA ACACCAGAGTAAAGCCCCTAGGGCGAGATAAGGAGTTGCAACAA	ctg13446	1		
24662 I		S	AGCTCTGTTACTTGCACATCCCCGAGGCC				
24662 P	T	S	CGCGCCGAGGAGTGGACTCTGGCCY				
24662 P	A	S	ATGACGTGGCAGACTGTGGACTCTGGCCY				
24662 T	T	S	GGAGGGCCAGAGTCCACTGCCTCGGGGATGTGCAAGTAACAGAGCTTG				
24662 T	A	S	GGAGGGCCAGAGTCCACAGCCTCGGGGATGTGCAAGTAACAGAGCTTG				
24662 IS	[TA]		GCCTGAACTGAGCCCAGTAGAAGTCCCATCCTTGGAGCTCCAGGGAGGGCCAGAGTCCAC[TA]GCCTCGGGGATGT GCAAGTAACAGAGCTTGGCTGCTGTGCCACAGTGACAGAGATGGTGT	ctg13960	1		
24904 I		S	CACAGTCTATACCATTCCCAGGATATGAATTGCTAAGACAGCATTATA				
24904 P	G	S	ATGACGTGGCAGACCTTATTTCAAATTGATCCAGAATCAY				
24904 P	A	S	CGCGCCGAGGTTTATTTCAAATTGATCCAGAATCAY				
24904 T	G	S	TCTTTGATTCTGGATCAATTTGAAATAAGATAATGCTGTCTTAGCAATTCATATCCTGGGAATGGTATAGACTGTGCA				
24904 T	A	S	TCTTTGATTCTGGATCAATTTGAAATAAAATAATGCTGTCTTAGCAATTCATATCCTGGGAATGGTATAGACTGTGCA				

FIGURE 129D

				CCTCCTAAGAGTTACATTTCAGAAGTCATTGCTCTTTGATTCTGGATCAATTTGAAATAA[GA]ATAATGCTGTCTTAGCA			
24904 IS	[GA]			ATTCATATCCTGGGAATGGTATAGACTGTGCACAGTTGAAGAC	ctg13980	1	
25278 I			S	TGCCTTTCTCTCAGCAGAAAGAAAAGCCTATTGGCTAAAGT			
25278 P	G		S	CGCGCCGAGGCCCTAACTATCTACTGCTGAY			
25278 P	C		S	ATGACGTGGCAGACGCCTAACTATCTACTGCTGY			
25278 T	G		S	TACCTCAGCAGTAGATAGTTAGGGCTTTAGCCAATAGGCTTTTCTTTCTGCTGAGAGAAAGGCAAA			
25278 T	C		S	TACCTCAGCAGTAGATAGTTAGGCCTTTAGCCAATAGGCTTTTCTTTCTGCTGAGAGAAAGGCAAA			
				GTTTCTATTATTCACAACCAAACATAATTTTAATGACTACCTCAGCAGTAGATAGTTAGG[GC]CTTTAGCCAATAGGCTT			
25278 IS	[GC]			TTCTTTCTGCTGAGAGAAAGGCAAATGGTAGAATCTCAACCCC	ctg13980	1	
25517 I			A	GGGATGTTGTCCAAACCATGTGTGGGACTCTT			
25517 P	C		A	CGCGCCGAGGCTGTTGACAGTTGTTTTTAAATTGY			
25517 P	G		A	ATGACGTGGCAGACGTGTTGACAGTTGTTTTTAAATTGY			
25517 T	C		A	CAGGCAATTTAAAAACAACTGTCAACAGAGAGTCCCACACATGGTTTGGACAACATCCCTT			
25517 T	G		A	CAGGCAATTTAAAAACAACTGTCAACACAGAGTCCCACACATGGTTTGGACAACATCCCTT			
				CCTTGATGGCTCTCCTGTTTCGGGTATAAGGGATGTTGTCCAAACCATGTGTGGGACTCT[CG]TGTTGACAGTTGTTT			
25517 IS	[CG]			TTAAATTGCCTGTTTAATTGAGCTTCTCTAAAGTCTTCTTTGTGC	ctg13980	1	
25756 I			S	GTCCATCAGGCCCAGTGAAACACTCTGACAACTTAA			
25756 P	A		S	CGCGCCGAGGTATATTAAAGGAGTTTCACATCTAAAATY			
25756 P	G		S	ATGACGTGGCAGACCATATTAAAGGAGTTTCACATCTAAAY			
25756 T	A		S	TGAAATTTTAGATGTGAAACTCCTTTAATATATAAGTTGTCAGAGTGTTTCACTGGGCCTGATGGACTG			
25756 T	G		S	TGAAATTTTAGATGTGAAACTCCTTTAATATGTAAGTTGTCAGAGTGTTTCACTGGGCCTGATGGACTG			
				AGAAACTTCAAATACATAAGCCTCATTTGTGAAATTTTAGATGTGAAACTCCTTTAATAT[AG]TAAGTTGTCAGAGTGTT			
25756 IS	[AG]			TCACTGGGCCTGATGGACTGATGCTCATTAAACTCAGTAGATG	ctg13980	1	
25852 I			S	GGACGAAGGCCTCATGCTTCCTGGATGAT			
25852 P	T		S	CGCGCCGAGGACCACAAAAAAAAAGGTTGAGY			
25852 P	C		S	ATGACGTGGCAGACGCCACAAAAAAAAAGGTTGAY			
25852 T	T		S	TGGCCTCAACCTTTTTTTTTGTGGTTCATCCAGGAAGCATGAGGCCTTCGTCCTG			
25852 T	C		S	TGGCCTCAACCTTTTTTTTTGTGGCTCATCCAGGAAGCATGAGGCCTTCGTCCTG			
				ATAAATACTTGCTGGATGTAATGTTCCTCAACAAGATGGCCTCAACCTTTTTTTTTGTGG[TC]TCATCCAGGAAGCATG			
25852 IS	[TC]			AGGCCTTCGTCCTGGTAATATTTTGGGCATATTATTAGGGGCAG	ctg13980	1	
25918 I			S	AGGACAGAAGCCCACTGGGCCTGGC			
25918 P	A		S	CGCGCCGAGGTGGGCCTCTCATCCY			
25918 P	T		S	ATGACGTGGCAGACAGGGCCTCTCATCCAY			
25918 T	A		S	GTTCTGGATGAGAGGCCCACCAGGCCCAGTGGGCTTCTGTCCTGG			
25918 T	T		S	GTTCTGGATGAGAGGCCCTCCAGGCCCAGTGGGCTTCTGTCCTGG			
				GTCATGGACGATGGAGAAGAGAATGCGCTTGGAGGCATGGACGTTCTGGATGAGAGGCCC[AT]CCAGGCCCAGTGG			
25918 IS	[AT]			GCTTCTGTCCTGGACAAGGGAGAGAAGGAAGAAGGTTCCAGGTGGGA	ctg13516	6	
26285 I			A	TCATCTGTGCGGGTGCAGAGTGGCAA			
26285 P	C		A	ATGACGTGGCAGACCGTAAGTGCATTGCCAY			
26285 P	T		A	CGCGCCGAGGTGTAAGTGCATTGCCAGY			
26285 T	C		A	AGGGCTGGCAATGCACTTACGTGCCACTCTGCACCCGCACAGATGACA			
26285 T	T		A	AGGGCTGGCAATGCACTTACATGCCACTCTGCACCCGCACAGATGACA			
				CCAGCTTCCACGCCCATGGCTACCAGGAGAAGGTGTCATCTGTGCGGGTGCAGAGTGGCA[CT]GTAAGTGCATTGCC			
26285 IS	[CT]			AGCCCTGGCTCACCCTGCCCCAGGAACTGAGACTCTGGGGTCCTAA	ctg16537	20	
27051 I			A	GAGGAATGGCTGCCCCCTTCGAGGTAAA			
27051 P	C		A	ATGACGTGGCAGACCCTTCAGATGGGTGACAY			
27051 P	T		A	CGCGCCGAGGTCTTCAGATGGGTGACATY			
27051 T	C		A	CATGATGTCACCCATCTGAAGGTTACCTCGAAGGGGGCAGCCATTCCTCCA			
27051 T	T		A	CATGATGTCACCCATCTGAAGATTACCTCGAAGGGGGCAGCCATTCCTCCA			
				AGGCAGGTCCAGCAGGCACAGAAGGACATGTTGGAGGAATGGCTGCCCCCTTCGAGGTAA[CT]CTTCAGATGGGTGA			
27051 IS	[CT]			CATCATGGAGGAAGCCTGTGGTACATCTGGAGACACCATGACACCA	ctg15665	20	
27182 I			A	GTGTGGAGGTCCAGCCTCTTCTTAGACACACAAC			
27182 P	T		A	CGCGCCGAGGTGAAAACTCACTATTCTCACAAY			
27182 P	G		A	ATGACGTGGCAGACGGAAAACTCACTATTCTCACAY			
27182 T	T		A	GGGTTTGTGAGAATAGTGAGTTTTCATTGTGTGTCTAAGAAGAGGCTGGACCTCCACACAT			
27182 T	G		A	GGGTTTGTGAGAATAGTGAGTTTTCCTTGTGTGTCTAAGAAGAGGCTGGACCTCCACACAT			
				TATAAATGCTACTGAAACATCACCAATGTGTGGAGGTCCAGCCTCTTCTTAGACACACAA[TG]GAAAACTCACTATTCT			
27182 IS	[TG]			CACAAACCCCAATCCACTCTTCAGATAACTGTCTAATCATTAGA	ctg15907	6	
28863 I			A	CCTCTCCTGCAATCCAACTTGTGAGGCTTGCT			
28863 P	G		A	ATGACGTGGCAGACGTGTGTGTGTGTGCY			
28863 P	A		A	CGCGCCGAGGATGTGTGTGTGTGTGCY			
28863 T	G		A	GCGTGCACACACACACACGCAAGCCTCACAAGTTGGATTGCAGGAGAGGGT			
28863 T	A		A	GCGTGCACACACACACACATGCAAGCCTCACAAGTTGGATTGCAGGAGAGGGT			
				ATGAATTCCGTGGCCTGAATGTACCTTCCTCAAATGCCACTGCAAAC1GGGTCTCCTCGCCCACTTCACCCTCTCCTG			
				CAATCCAACTTGTGAGGCTTGC[GA]TGTGTGTGTGTGCACGCGTGCGTTTAGATGGAGGTTGGCTTCCCAGCCAC			
28863 IS	[GA]			CCAGGCTTGGCCCAAAGTCCGTGGTACACACGTGCATAACTCCTACCC	ctg15907	6	
34685 I			A	GGTGGGAAGAAAGGATATGATTATTTCTTATTCCATTTTCCATAAGAGGTGAGAATT			
34685 P	G		A	ATGACGTGGCAGACGACAAGGACCTCTTTTCTAACY			
34685 P	A		A	CGCGCCGAGGAACAAGGACCTCTTTTCTAACY			
				AGGAGTTAGAAAAGAGGTCCTTGTCATTCTCACCTCTTATGGAAAATGGAATAAGAAATAATCATATCCTTTCTTCCCA			
34685 T	G		A	CCCT			
				AGGAGTTAGAAAAGAGGTCCTTGTTATTCTCACCTCTTATGGAAAATGGAATAAGAAATAATCATATCCTTTCTTCCCA			
34685 T	A		A	CCCT			
				GAAGGGTGGGAAGAAAGGATATGATTATTTCTTATTCCATTTTCCATAAGAGGTGAGAAT[GA]ACAAGGACCTCTTTTC			
34685 IS	[GA]			TAACTCCTCTTGAGGGTGTGAGAAGGGTTAGCAGGAGGAGAAGG	MULTIPLE	22	PPP1R11
34780 I			A	GGGTGTCTCTGTGTCCAGCAGGAGGGT			
34780 P	G		A	ATGACGTGGCAGACGGAAGGCTTGTTGGTGY			
34780 P	A		A	CGCGCCGAGGAGAAGGCTTGTTGGTGTY			
34780 T	G		A	GGGGACACCAACAAGCCTTCCCCCTCCTGCTGGACACAGAGACACCCAC			
34780 T	A		A	GGGGACACCAACAAGCCTTCTCCCTCCTGCTGGACACAGAGACACCCAC			
				AGGTGACTCAGAGGGTGTGTCTGGTGTGCTGGGTGGGTGTCTCTGTGTCCAGCAGGAGGG[GA]GAAGGCTTGTTGG			
34780 IS	[GA]			TGTCCCCAAGCCAGGCCAGTCCTCAGTTCCATGAAAGGCGCCTCTTG	ctg22fin4	22	
36248 I			S	CCCTATTGAATGCCTTTGGCTGCTTTCATGGTCATGA			
36248 P	G		S	ATGACGTGGCAGACCTGGAGAAGCCTTTGAG			
36248 P	A		S	CGCGCCGAGGTTGGAGAAGCCTTTGAG			
36248 T	G		S	GTACCTCAAAGGCTTCTCCAGCATGACCATGAAAGCAGCCAAAGGCATTCAATAGGGAC			
36248 T	A		S	GTACCTCAAAGGCTTCTCCAACATGACCATGAAAGCAGCCAAAGGCATTCAATAGGGAC			
				AAATATTGCAGAGCTTCCTTGGAATTCAATAGCCCGCCCCGTACCTCAAAGGCTTCTCCA[GA]CATGACCATGAAAGC			
36248 IS	[GA]			AGCCAAAGGCATTCAATAGGGACATCCTCCCAGCCTTGTGTTAAA	ctg22fin4	22	
36432 I			A	GGGTGCTGTTCTCCCAGCAGAGAACACTCA			
36432 P	C		A	ATGACGTGGCAGACCGTTTCCTGCCCACY			
36432 P	T		A	CGCGCCGAGGTGTTTCCTGCCCACCY			
36432 T	C		A	AGAGGGTGGGCAGGAAACGGAGTGTTCTCTGCTGGGAGAACAGCACCCCA			
36432 T	T		A	AGAGGGTGGGCAGGAAACAGAGTGTTCTCTGCTGGGAGAACAGCACCCCA			
				AAATACCTACTGTGCATGACGCACAGTGCTGGGGTGCTGTTCTCCCAGCAGAGAACACTC[CT]GTTTCCTGCCCACCC			
36432 IS	[CT]			TCTACCCCTCCACCCACACCCATCCCCACCCCTAGCCCTGCAGGC	ctg15907	6	

FIGURE 129D

36841 I		S	CCCATATAGTGTTTGTGTGGAAATGTCCCCCAAAAGAAACTTAA			
36841 P	G	S	ATGACGTGGCAGACCAGTTTAAAATGTTTTTTTTCGGTY			
36841 P	A	S	CGCGCCGAGGTAGTTTAAAATGTTTTTTTTCGGTTATY			
36841 T	G	S	AAACATAACCGAAAAAAAACATTTTAAACTGTAAGTTTCTTTTGGGGGACATTTCCACACAAACACTATATGGGAG			
36841 T	A	S	AAACATAACCGAAAAAAAACATTTTAAACTATAAGTTTCTTTTGGGGGACATTTCCACACAAACACTATATGGGAG			
36841 IS	[GA]		TTACAAATAATGTCCCCATAAACTATAGTAAAACATAACCGAAAAAAAACATTTTAAACT[GA]TAAGTTTCTTTTGGGGG ACATTTCCACACAAACACTATATGGGAGCTAATAGAATTTCGT	ctg13960	1	
39289 I		S	GCAGAAAGAGGGGGTGGGTGTCTCCTA			
39289 P	A	S	CGCGCCGAGGTCCACAAGCCCTCCY			
39289 P	G	S	ATGACGTGGCAGACCCCACAAGCCCTCCY			
39289 T	A	S	TATAGGAGGGCTTGTGGAAGGAGACACCCACCCCCTCTTTCTGCAC			
39289 T	G	S	TATAGGAGGGCTTGTGGGAGGAGACACCCACCCCCTCTTTCTGCAC			
39289 IS	[AG]		TTCACCTTCCGTCCAGCACTAAGGGAGTCTGGCCACGGCCTAATATAGGAGGGCTTGTGG[AG]AGGAGACACCCACC CCCTCTTTCTGCACCTCTCCCCTCTTCCATGCCACCCCCAGGCCAG	MULTIPLE	MULTIPLE	
39512 I		A	CCTTGGGTTACATTTTTACGAGATTTAAATATTTTATTCCAACCTGTGTAATAGGGGA			
39512 P	T	A	CGCGCCGAGGTCTCCTCCTCCTTGAACY			
39512 P	C	A	ATGACGTGGCAGACCCTCCTCCTCCTTGAACY			
39512 T	T	A	GACAGTTCAAGGAGGAGGAGACCCCTATTACACAGGTTGGAATAAAATATTTAAATCTCGTAAAAATGTAACCCAAGG CT			
39512 T	C	A	GACAGTTCAAGGAGGAGGAGGCCCCTATTACACAGGTTGGAATAAAATATTTAAATCTCGTAAAAATGTAACCCAAGG CT			
39512 IS	[TC]		GAGCCTTGGGTTACATTTTTACGAGATTTAAATATTTTATTCCAACCTGTGTAATAGGGG[TC]CTCCTCCTCCTTGAACT GTCCCGATTGGCTGGGGTCACGTGGTGAGGGTCCTGGGTGACC	clg13446	1	
39573 I		S	CACAGTGCCCACCCCCAAGTTAGGATGAAAAAC			
39573 P	T	S	CGCGCCGAGGAGTTCCAGAGGTTTTTAAGAAAY			
39573 P	A	S	ATGACGTGGCAGACTGTTCCAGAGGTTTTTAAGAAY			
39573 T	T	S	CCAATTTCTTAAAAACCTCTGGAACTTTTTTCATCCTAACTTGGGGGTGGGCACTGTGTC			
39573 T	A	S	CCAATTTCTTAAAAACCTCTGGAACATTTTTCATCCTAACTTGGGGGTGGGCACTGTGTC			
39573 IS	[TA]		ATGGGAATTTCTTGAAGTTAGGGACCCAGCTTAATCCAATTTCTTAAAAACCTCTGGAAC[TA]TTTTTCATCCTAACTTG GGGGTGGGCACTGTGTCTTACTCATTTCTAGAACATCCATCCT			
42406 I		A	CCCCTCTCCTCCTCCTAGGGAACAGCAT			
42406 P	G	A	ATGACGTGGCAGACGTGCTCCCAAGTCCCY			
42406 P	C	A	CGCGCCGAGGCTGCTCCCAAGTCCCY			
42406 T	G	A	CCTGGGGACTTGGGAGCACTGCTGTTCCCTAGGAGGAGGAGAGGGGGA			
42406 T	C	A	CCTGGGGACTTGGGAGCAGTGCTGTTCCCTAGGAGGAGGAGAGGGGGA			
42406 IS	[GC]		CTGCATGGCGCCCATGGAAACCTGCACTTCTTCCCCCTCTCCTCCTCCTAGGGAACAGCA[GC]TGCTCCCAAGTCCC CAGGGCCTCCTCCCTGTCCACAGCCCCGACCCCCCCACTGAGCCCA	ctg13446	1	
42670 I		S	CCCTGCCCCGAAGGCTTTTGTGACTCTGT			
42670 P	T	S	CGCGCCGAGGAGTGTCAAAAGGGGTGGY			
42670 P	G	S	ATGACGTGGCAGACCGTGTCAAAAGGGGTGY			
42670 T	T	S	AGTGCCACCCCTTTTGACACTCAGAGTCACAAAAGCCTTCGGGGCAGGGTG			
42670 T	G	S	AGTGCCACCCCTTTTGACACGCAGAGTCACAAAAGCCTTCGGGGCAGGGTG			
42670 IS	[TG]		CTGCAATGCATAGTCCTGCTGCTTCCTTGTGGCGCCTCTGAGTGCCACCCCTTTTGACAC[TG]CAGAGTCACAAAAGC CTTCGGGGCAGGGTGGAACCCCAACCTAGGAGGCAGCGCAGGTGC	ctg14250	1	
42913 I		A	CAGCAGGACCAGCGGGAGCTCACC			
42913 P	T	A	CGCGCCGAGGTGCCGCGCATGGY			
42913 P	G	A	ATGACGTGGCAGACGGCCGCGCATGY			
42913 T	T	A	GGGACCATGCGCGGCAGTGAGCTCCCGCTGGTCCTGCTGGC			
42913 T	G	A	GGGACCATGCGCGGCCGTGAGCTCCCGCTGGTCCTGCTGGC			
42913 IS	[TG]		CCGCTCGCCCCCGGGGCGCCAGGCAGAGGACCAGCGCCAGCAGGACCAGCGGGAGCTCAC[TG]GCCGCGCATGGT CCCGACGGGAAGCCCTTGGAGCGCGCCGGAGAGGCTGGGAAGAGCAGA	ctg14250	1	
44013 I		S	CGTTCGCAGGCCAGAACTGCGCCT			
44013 P	C	S	ATGACGTGGCAGACGAGTCGCCTTCCACGY			
44013 P	T	S	CGCGCCGAGGAAGTCGCCTTCCACGY			
44013 T	C	S	GCGCCGTGGAAGGCGACTCGGCGCAGTTCTGGCCTGCGAACGCC			
44013 T	T	S	GCGCCGTGGAAGGCGACTTGGCGCAGTTCTGGCCTGCGAACGCC			
44013 IS	[CT]		ATCGTTGTAGCTGATCTCTTTGCTTAACTAATTAAACCTGGTGCGCCGTGGAAGGCGACT[CT]GGCGCAGTTCTGGCC TGCGAACGCCGTCCAAATTGGCAACCTCCCCTTTCCCGTGAACGG	ctg15665	20	
44292 I		S	CCCCGCCACCCCCAGGCACA			
44292 P	A	S	CGCGCCGAGGTGCCATCCGGGCY			
44292 P	G	S	ATGACGTGGCAGACCGCCATCCGGGCY			
44292 T	A	S	CATGGCCCGGATGGCAGTGCCTGGGGGTGGCGGGGTG			
44292 T	G	S	CATGGCCCGGATGGCGGTGCCTGGGGGTGGCGGGGTG			
44292 IS	[AG]		GCGTTTCACGACGTCGGTCACGTGCTCCGCTTTCTTGTAAACAGGCATGGCCCGGATGGC[AG]GTGCCTGGGGGTG GCGGGGTGGACACCTTGATCTGGATGGGGCATGTCTTGGCGATCTGG	ctg22fin6	22	TP73
44436 I		S	CCAACGGCTTGAACCGCCTGCCCC			
44436 P	T	S	CGCGCCGAGGACACCCTCCCCTGAY			
44436 P	A	S	ATGACGTGGCAGACTCACCCTCCCCTGAY			
44436 T	T	S	TGGCTCAGGGGAGGGTGTGGGCAGGCGGTTCAAGCCGTTGGCT			
44436 T	A	S	TGGCTCAGGGGAGGGTGAGGGCAGGCGGTTCAAGCCGTTGGCT			
44436 IS	[TA]		GCGTGTGGCCGGGCGGCATGGCGAAGCGGACCACGCTGGGGGGTGGCTCAGGGGAGGGTG[TA]GGGCAGGCGGT TCAAGCCGTTGGCTGGAGACACCTATTTAAGGGGATTCCATGTTAAAAG	ctg22fin6	22	
44650 I		A	ACCTCTTCCAGAATGGTACAGATTTTCTCTCACAAAATC			
44650 P	G	A	ATGACGTGGCAGACGTACGACTATATATCACACTCTTCY			
44650 P	T	A	CGCGCCGAGGTTACGACTATATATCACACTCTTCY			
44650 T	G	A	AACAGAAGAGTGTGATATATAGTCGTACATTTTGTGAGAGAAAATCTGTACCATTCTGGAAGAGGTGC			
44650 T	T	A	AACAGAAGAGTGTGATATATAGTCGTAAATTTTGTGAGAGAAAATCTGTACCATTCTGGAAGAGGTGC			
44650 IS	[GT]		AGCACCTGGAACCTTTATAAGCACCTCTTCCAGAATGGTACAGATTTTCTCTCACAAAAT[GT]TACGACTATATATCACA CTCTTCTGTTTGATCATCTTTATTTTCGTATGTCTACATGCTA	ctg22fin4	22	
44728 I		A	CCGTAAGAAGCAAGCAAGGTCTCGCTGTGGC			
44728 P	A	A	CGCGCCGAGGACAAGGCTGATTCCAGTY			
44728 P	T	A	ATGACGTGGCAGACTCAAGGCTGATTCCAGTY			
44728 T	A	A	ACCAACTGGAATCAGCCTTGTCCACAGCGAGACCTTGCTTGCTTCTTACGGGA			
44728 T	T	A	ACCAACTGGAATCAGCCTTGACCACAGCGAGACCTTGCTTGCTTCTTACGGGA			
44728 IS	[AT]		TCCTGCGGTCACTGTCATGGTCTCCGTTTCCCGTAAGAAGCAAGCAAGGTCTCGCTGTGG[AT]CAAGGCTGATTCCA GTTGGTGATTTTTACCTCTGGGGGCCTGGTGCTGTGTGCATGCGTG	ctg22fin4	22	
44746 I		S	TGATTTCCTCCCTGATCACACACTGGGGGACC			
44746 P	C	S	ATGACGTGGCAGACGTATTCCTCCCAATCACACY			
44746 P	A	S	CGCGCCGAGGTTATTCCTCCCAATCACACY			
44746 T	C	S	CAGAGTGTGATTGGGAGGAATACGTCCCCCAGTGTGTGATCAGGGAGGAAATCAGT			
44746 T	A	S	CAGAGTGTGATTGGGAGGAATAAGTCCCCCAGTGTGTGATCAGGGAGGAAATCAGT			
44746 IS	[CA]		GAGCCTCCCGGAGCACGGTCAGGCAGGAATCAGCACCCCAGAGTGTGATTGGGAGGAATA[CA]GTCCCCCAGTGTG TGATCAGGGAGGAAATCAGTTTCCCAGAGTGTGATCCGGCAGGAATC	ctg22fin4	22	
44874 I		A	GCTGCCTCCTTATGCCCATCAGGTAATGCTGT			
44874 P	A	A	CGCGCCGAGGAGGTAAAAGTACCCAAGGAY			

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FIGURE 129D

44874 P	G	A	ATGACGTGGCAGACGGGTAAAAGTACCCAAGGY			
44874 T	A	A	CCTTTCCTTGGGTACTTTTACCTCAGCATTACCTGATGGGCATAAGGAGGCAGCAC			
44874 T	G	A	CCTTTCCTTGGGTACTTTTACCCCAGCATTACCTGATGGGCATAAGGAGGCAGCAC			
44874 IS	[AG]		GCACCACAAGTCTGGCAACACTATTTGGTGCTGCCTCCTTATGCCCATCAGGTAATGCTG[AG]GGTAAAAGTACCCAA GGAAAGGGCTTAGAAAGACAAATGGCCTTTTCTGCCACCAAATGG	ctg22fin4	22	
45628 I		S	CAGCGAGAAGCTGAGAGTTCATTTGTCCTTTTGGAGAT			
45628 P	C	S	ATGACGTGGCAGACGAGGCTAGAGTCAGATGCY			
45628 P	T	S	CGCGCCGAGGAAGGCTAGAGTCAGATGCY			
45628 T	C	S	TGAAGCATCTGACTCTAGCCTCTCTCCAAAAGGACAAATGAACTCTCAGCTTCTCGCTGGG			
45628 T	T	S	TGAAGCATCTGACTCTAGCCTTTCTCCAAAAGGACAAATGAACTCTCAGCTTCTCGCTGGG			
45628 IS	[CT]		GGAATTGCCAACCAAGAAGAGCTGACTGGTATCTCTAGATGAAGCATCTGACTCTAGCCT[CT]TCTCCAAAAGGACAA ATGAACTCTCAGCTTCTCGCTGGGTTTATCCAGTGCGTCATGTGC	ctg22fin4	22	
45804 I		S	TCTGGTGGAGGCTCCCTGGCCTTT			
45804 P	C	S	ATGACGTGGCAGACGGTGCCAAAGCTGATGY			
45804 P	T	S	CGCGCCGAGGAGTGCCAAAGCTGATGY			
45804 T	C	S	TACCCATCAGCTTTGGCACCAAGGCCAGGGAGCCTCCACCAGACA			
45804 T	T	S	TACCCATCAGCTTTGGCACTAAGGCCAGGGAGCCTCCACCAGACA			
45804 IS	[CT]		CTTCTTCTCTAGAAGAATTACCCTGAAGGTAAGCAGCTACCTACCCATCAGCTTTGGCAC[CT]AAGGCCAGGGAGCCT CCACCAGACACCATGGAAAGCCATACCTGCCTCATGAGCTCCTCT	ctg22fin10	22	
46185 I		A	CCCAGACCACCCTGACCCCCGT			
46185 P	G	A	ATGACGTGGCAGACGGCCTGCCTGCCY			
46185 P	A	A	CGCGCCGAGGAGCCTGCCTGCCY			
46185 T	G	A	GCCAGGCAGGCAGGCCCGGGGGTCAGGGTGGTCTGGGCC			
46185 T	A	A	GCCAGGCAGGCAGGCTCGGGGGTCAGGGTGGTCTGGGCC			
46185 IS	[GA]		GCGGTCTCAGGCTGCGGTGGGCGTCTGTCCTGCATGTGGCCCAGACCACCCTGACCCCCG[GA]GCCTGCCTGCCTG GCCCTGCATGCTGCACGCTCACTGTATTTGTGCAGATCCTGGCCAGT	ctg15907	6	
46301 I		A	CATGTGTGGGGCTGGTGCTCCCACT			
46301 P	G	A	ATGACGTGGCAGACGTCTCCCCGTGGCY			
46301 P	A	A	CGCGCCGAGGATCTCCCCGTGGCY			
46301 T	G	A	GGGGGCCACGGGGAGACGTGGGAGCACCAGCCCCACACATGGG			
46301 T	A	A	GGGGGCCACGGGGAGATGTGGGAGCACCAGCCCCACACATGGG			
46301 IS	[GA]		CTTGGAACCAGCAAACAGCCCTGGAAACGTCTCCCCCATGTGTGGGGCTGGTGCTCCCAC[GA]TCTCCCCGTGGCCC CCTCCTCGCTCCTCCCTTGCCAGCCGAGAGACCCTGGCAGCCCACT	ctg15907	6	
46369 I		S	TGCAGCTTTTTTCCCCTCTCCTTTCACAAGATGCTAA			
46369 P	A	S	CGCGCCGAGGTTGTAAATTCAGGCTGCTTY			
46369 P	G	S	ATGACGTGGCAGACCTGTAAATTCAGGCTGCTY			
46369 T	A	S	ATTAAAGCAGCCTGAATTTACAATAGCATCTTGTGAAAGGAGAGGGGAAAAAAGCTGCAGT			
46369 T	G	S	ATTAAAGCAGCCTGAATTTACAGTAGCATCTTGTGAAAGGAGAGGGGAAAAAAGCTGCAGT			
46369 IS	[AG]		TTTTTTTTCTTTCTTCCTTTTTTTTTTTTAATCACAGAGATTAAAGCAGCCTGAATTTACA[AG]TAGCATCTTGTGAAAGGA GAGGGGAAAAAAGCTGCAGTGGTTTTAGTAAATAATGCACTT	ctg15907	6	
46368 I		A	GAAAGCCGCAGGGACCGTGCCTTA			
46388 P	T	A	CGCGCCGAGGTCAACATCCCTACCCCY			
46388 P	C	A	ATGACGTGGCAGACCCAACATCCCTACCCCY			
46388 T	T	A	GGCGGGGGTAGGGATGTTGAAAGGCACGGTCCCTGCGGCTTTCAA			
46388 T	C	A	GGCGGGGGTAGGGATGTTGGAAGGCACGGTCCCTGCGGCTTTCAA			
46388 IS	[TC]		TCAGAAAAGCACCGGAACACTTAATTGTCTTGTCCTTGAAAGCCGCAGGGACCGTGCCTT[TC]CAACATCCCTACCCC CGCCCTCCCAACGGTTGTGACATGGGAGGATATTTCTTCACCCTT	ctg17573	X	
46610 I		S	GGAGGGAGTCGGTGGTGAAATTTGCAA			
46610 P	G	S	ATGACGTGGCAGACCGAGGGACATGAAACCY			
46610 P	A	S	CGCGCCGAGGTGAGGGACATGAAACCAY			
46610 T	G	S	CACTTGGTTTCATGTCCCTCGTGCAAATTTCACCACCGACTCCCTCCTC			
46610 T	A	S	CACTTGGTTTCATGTCCCTCATGCAAATTTCACCACCGACTCCCTCCTC			
46610 IS	[GA]		CAGATCTTGGTCTGAAATTCAACAATAATTTCACATTTCTCACTTGGTTTCATGTCCCT[GA]TGCAAATTTCACCACCG ACTCCCTCCTCTTTTATTATATATTTTTTCTTCTTGTTTTTGT	ctg16537	20	
46635 I		A	CCAGGAGGCCAGATTCTGTGCTACCTGACT			
46635 P	G	A	ATGACGTGGCAGACGTCAAGAGCGTGCAAAY			
46635 P	A	A	CGCGCCGAGGATCAAGAGCGTGCAAAGY			
46635 T	G	A	AACTCTTTGCACGCTCTTGACGTCAGGTAGCACAGAATCTGGCCTCCTGGGG			
46635 T	A	A	AACTCTTTGCACGCTCTTGATGTCAGGTAGCACAGAATCTGGCCTCCTGGGG			
46635 IS	[GA]		TTTCCCCAGTTTCCCAGTTTCCCCAGTTTCCCCAGGAGGCCAGATTCTGTGCTACCTGAC[GA]TCAAGAGCGTGCAAA GAGTTCACCCACGACTGGTCCTGGTGCGAGCGAACCTTCAGTTTG	ctg15907	6	
46990 I		A	CATCTTTGAAAACGCGATAGTGCTGACCTGTCCCT			
46990 P	G	A	ATGACGTGGCAGACGTGCGGTTTCTAACGCY			
46990 P	A	A	CGCGCCGAGGATGCGGTTTCTAACGCY			
46990 T	G	A	GCCTGCGTTAGAAACCGCACGGGACAGGTCAGCACTATCGCGTTTTCAAAGATGTT			
46990 T	A	A	GCCTGCGTTAGAAACCGCATGGGACAGGTCAGCACTATCGCGTTTTCAAAGATGTT			
46990 IS	[GA]		GGTGACCACCCGGTTTTCCTGGGGAACATCTTTGAAAACGCGATAGTGCTGACCTGTCCC[GA]TGCGGTTTCTAACG CAGGCACTTTAAAAAGAAGGCCCAGGCTCGATCCCGTCTTTCTAGT	ctg12559	6	
47138 I		A	TGCCTCACCTACACCCACCGGCTTA			
47138 P	C	A	ATGACGTGGCAGACCTAACGTGCCATCCAGY			
47138 P	T	A	CGCGCCGAGGTTAACGTGCCATCCAGTY			
47138 T	C	A	ATAAACTGGATGGCACGTTAGAAGCCGGTGGGTGTAGGTGAGGCACG			
47138 T	T	A	ATAAACTGGATGGCACGTTAAAAGCCGGTGGGTGTAGGTGAGGCACG			
47138 IS	[CT]		GGGTAGCGGCTGGAGAAGGGCCCGCGGGCGCCAGCGTGCCTCACCTACACCCACCGGCTT[CT]TAACGTGCCATCC AGTTTATGGCAGCTGTGGAGCCTGGTCCCCGGAGTTTCACCTTGATA	ctg16045	6	
49169 I		S	AGTCTAGATCCATTACTCCAAAACTTCTGGGACCCAAGAGT			
49169 P	C	S	ATGACGTGGCAGACGGACACAGATGAATAGGAATAAY			
49169 P	T	S	CGCGCCGAGGAGACACAGATGAATAGGAATAAAY			
49169 T	C	S	TTGGTTTATTCCTATTCATCTGTGTCCCTCTTGGGTCCCAGAAGTTTTGGAGTAATGGATCTAGACTGA			
49169 T	T	S	TTGGTTTATTCCTATTCATCTGTGTCTCTCTTGGGTCCCAGAAGTTTTGGAGTAATGGATCTAGACTGA			
49169 IS	[CT]		GCCCTGGCCCCCATTCCCCGAGTGCTATATTTACTTGGTTTATTCCTATTCATCTGTGTC[CT]CTCTTGGGTCCCAGAA GTTTTGGAGTAATGGATCTAGACTGAATGCTTCTCAGTCTGGAT	ctg16829	1	
49257 I		A	AGGAGACGGACACTGCTCGGAAAAAAAAACCTAGTTTTTA			
49257 P	C	A	ATGACGTGGCAGACCCTAGTTAGTGAATATTGGAACAY			
49257 P	T	A	CGCGCCGAGGTCTAGTTAGTGAATATTGGAACAGY			
49257 T	C	A	CAGACTGTTCCAATATTCACTAACTAGGAAAAACTAGGTTTTTTTTCCGAGCAGTGTCCGTCTCCTTC			
49257 T	T	A	CAGACTGTTCCAATATTCACTAACTAGAAAAAACTAGGTTTTTTTTCCGAGCAGTGTCCGTCTCCTTC			
49257 IS	[CT]		GGGGTTTTGTCTGACAGGAGGAAGGAGACGGACACTGCTCGGAAAAAAAACCTAGTTTTT[CT]CTAGTTAGTGAATAT TGGAACAGTCTGGTGGCCGCTCTCTTTTGCAGGTTGTGCGGTCCA			
49322 I		S	CGGTAAATAATGCGAAAGAACTTGAGTTCATTCTTAATTCCCA			
49322 P	A	S	CGCGCCGAGGTTTTCAACCAAAAGAATGGTGY			
49322 P	G	S	ATGACGTGGCAGACCTTTCAACCAAAAGAATGGTGY			
49322 T	A	S	GGTGCACCATTCTTTTGGTTGAAAAGGGAATTAAGAATGAACTCAAGTTCTTTCGCATTATTTACCGTG			

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FIGURE 129D

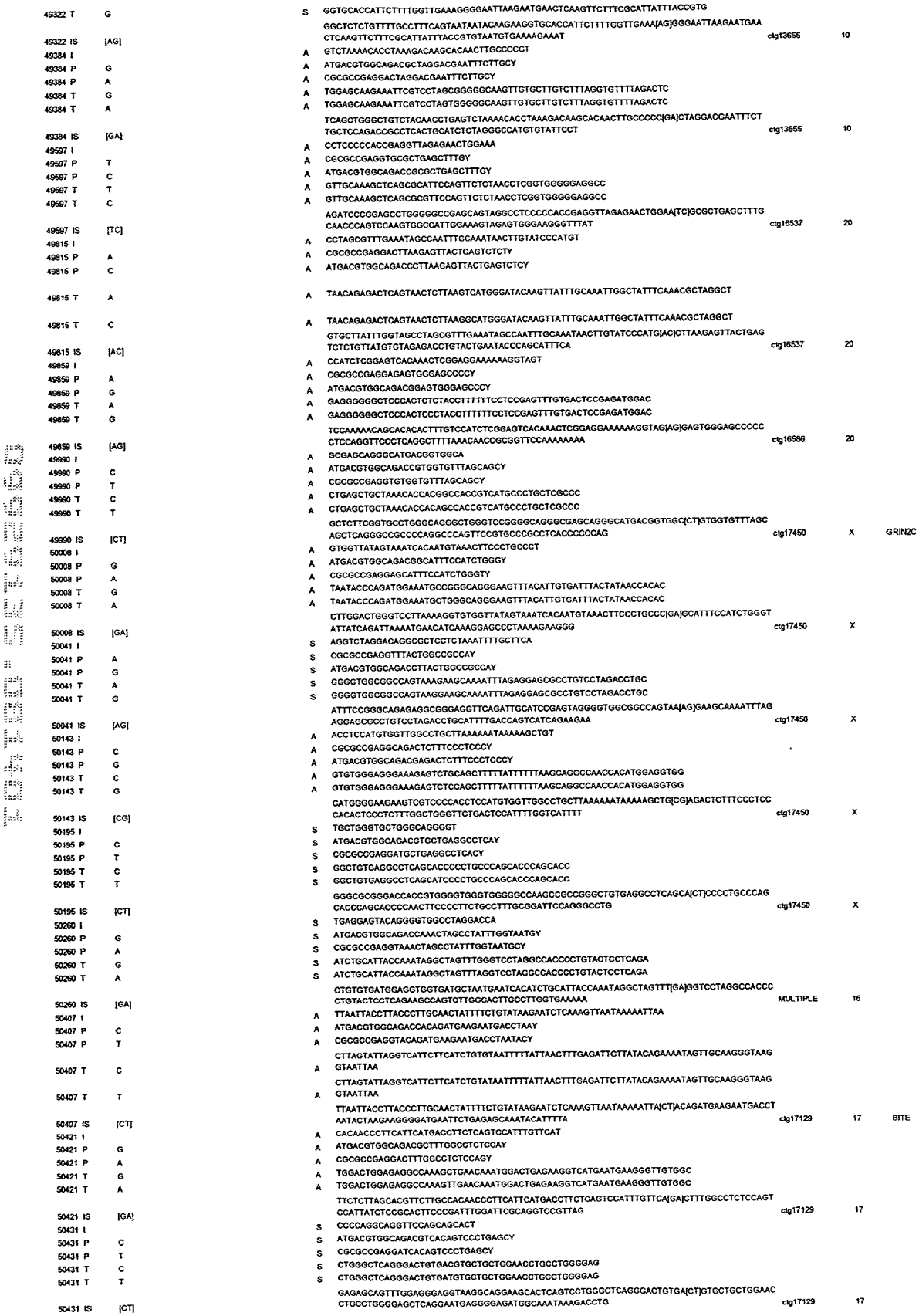


FIGURE 129D

50434 I		S	TCGGTGATGAGCAAGGTCCCAGCAGGA			
50434 P	G	S	ATGACGTGGCAGACCTGGAAAATCAGCACATGY			
50434 P	A	S	CGCGCCGAGGTTGGAAAATCAGCACATGY			
50434 T	G	S	TGAGCATGTGCTGATTTTCCAGCCTGCTGGGACCTTGCTCATCACCGACC			
50434 T	A	S	TGAGCATGTGCTGATTTTCCAACCTGCTGGGACCTTGCTCATCACCGACC			
50434 IS	[GA]		AAGTACAGAGCGGAGCTATCATTAATTATAAGAAAACGTTGAGCATGTGCTGATTTTCCA[GA]CCTGCTGGGACCTTG CTCATCACCGACCACCACAGCACAGGCGTGTCTGCTGCAGTAGAA			
50473 I		A	CCATATTGTCCCCACCTACTGATCACACTCTCTGACAAGT			
50473 P	G	A	ATGACGTGGCAGACGATTATTCTTCACAATACAGCCY			
50473 P	A	A	CGCGCCGAGGAATTATTCTTCACAATACAGCCY			
50473 T	G	A	TGCGGGCTGTATTGTGAAGAATAATCCTTGTCAGAGAGTGTGATCAGTAGGTGGGGACAATATGGGA			
50473 T	A	A	TGCGGGCTGTATTGTGAAGAATAATTCTTGTCAGAGAGTGTGATCAGTAGGTGGGGACAATATGGGA			
50473 IS	[GA]		TTGACCCAATGACTATTCTTCCCATATTGTCCCCACCTACTGATCACACTCTCTGACAAG[GA]ATTATTCTTCACAATAC AGCCCGCATTTAAAAGCTCTCGTCTAGAGATAGTACTCATGGA			
50541 I		A	ACTTGAGAGCAAAAAGGTCAGCTTACCCTTTGTAGTTGGT			
50541 P	A	A	CGCGCCGAGGAACTCAGTTCCTGTAGAATTTCY			
50541 P	G	A	ATGACGTGGCAGACGACTCAGTTCCTGTAGAATTTY			
50541 T	A	A	CAAAGAAATTCTACAGGAACTGAGTTCCAACTACAAAGGGTAAGCTGACCTTTTTGCTCTCAAGTCT			
50541 T	G	A	CAAAGAAATTCTACAGGAACTGAGTCCCAACTACAAAGGGTAAGCTGACCTTTTTGCTCTCAAGTCT			
50541 IS	[AG]		GCTGTAAGCTTTCAGATAGAGACTTGAGAGCAAAAAGGTCAGCTTACCCTTTGTAGTTGG[AG]ACTCAGTTCCTGTAG AATTTCTTTGGAAACATGTGTTTCTAATATGTCAGAATTGGTTTA			
50649 I		A	GCAGCAGCTCCAGTTCACTTTCCACGT			
50649 P	A	A	CGCGCCGAGGATATTTCCTAATCCACAGAGCY			
50649 P	G	A	ATGACGTGGCAGACGTATTTCCTAATCCACAGAGCY			
50649 T	A	A	TGCTGCTCTGTGGATTAGGAAATATCGTGGAAAGTGAACTGGAGCTGCTGCTA			
50649 T	G	A	TGCTGCTCTGTGGATTAGGAAATACCGTGGAAAGTGAACTGGAGCTGCTGCTA			
50649 IS	[AG]		TGTGGCTAGGTACACAGTGGACTTTGTTAAATTAGCAGCAGCTCCAGTTCACTTTCCACG[AG]TATTTCCTAATCCACA GAGCAGCAGGTGGGAGTGAGGGACACTATTAGTCAAGAGCTCAG	ctg11	15	
50657 I		A	GCCACAATTACCAGTTCAGCGTGGGCCTATGT			
50657 P	A	A	CGCGCCGAGGATCAAGCCTGGCCAAY			
50657 P	G	A	ATGACGTGGCAGACGTCAAGCCTGGCCAY			
50657 T	A	A	TTCCTTGGCCAGGCTTGATCATAGGCCCACGCTGAACTGGTAATTGTGGCAG			
50657 T	G	A	TTCCTTGGCCAGGCTTGACCATAGGCCCACGCTGAACTGGTAATTGTGGCAG			
50657 IS	[AG]		TAAACCAAGAAGTGCATGTCTTTCCCACTGCCACAATTACCAGTTCAGCGTGGGCCTATG[AG]TCAAGCCTGGCCAAG GAAACTGACAAGAAGAACTTAGACCCCATCGTATCTTCCTCTGTC	ctg4256	1	
50758 I		S	CAGGGAGGAAAAGGAGAACCAAGCTGGTGTC			
50758 P	C	S	ATGACGTGGCAGACGGAAATGGGGCAAACAY			
50758 P	A	S	CGCGCCGAGGTGAAATGGGGCAAACAAY			
50758 T	C	S	TAACTTGTTTGCCCCATTTCCACACCAGCTTGGTTCTCCTTTTCCTCCCTGCT			
50758 T	A	S	TAACTTGTTTGCCCCATTTCAACACCAGCTTGGTTCTCCTTTTCCTCCCTGCT			
50758 IS	[CA]		TGGCTTCAAAGGTGAAATCTTTTGTAAGACTACATTTATTTAACTTGTTTGCCCCATTTC[CA]ACACCAGCTTGGTTCTC CTTTTCCTCCCTGCTTTGACACTCTCCTTTTCTTCCTCACTGT	ctg18647	17	
50888 I		A	GTGCCAGAGCCACCCACCTTGCTCT			
50888 P	G	A	ATGACGTGGCAGACGGTAAGAGTGGGCAGGY			
50888 P	A	A	CGCGCCGAGGAGTAAGAGTGGGCAGGY			
50888 T	G	A	GAGCCCTGCCCACTCTTACCGAGCAAGGTGGGTGGCTCTGGCACGA			
50888 T	A	A	GAGCCCTGCCCACTCTTACTGAGCAAGGTGGGTGGCTCTGGCACGA			
50888 IS	[GA]		GCTCCCTGGTAGCCATGCTCTCCCCCTGGGGGACTCGTGCCAGAGCCACCCACCTTGCTC[GA]GTAAGAGTGGGCA GGGCTCACCGCTGAGGGGCCAGCGCTTGGCCCGGCTCCTATCCCCAC	ctg16105	5	
50899 I		A	AAGTGGATGATGGCATCTCTTTGTTTTACTTACAGTGCCTTGT			
50899 P	A	A	CGCGCCGAGGATTGGTTAGGTGGAAACCY			
50899 P	C	A	ATGACGTGGCAGACCTTGGTTAGGTGGAAACCY			
50899 T	A	A	GAAAGGTTTCCACCTAACCAATCAAGGCACTGTAAGTAAAACAAAGAGATGCCATCATCCACTTCT			
50899 T	C	A	GAAAGGTTTCCACCTAACCAAGCAAGGCACTGTAAGTAAAACAAAGAGATGCCATCATCCACTTCT			
50899 IS	[AC]		AATCACTACCACTGTGAGAAGTGGATGATGGCATCTCTTTGTTTTACTTACAGTGCCTTG[AC]TTGGTTAGGTGGAAAC CTTTCAAAGCCACCCATTGGCCATCTGCACTTGTCATGTGGATT	ctg14747	2	
50900 I		A	CCAGACCAGGACTGAAGTGCTTTGGGTGACT			
50900 P	G	A	ATGACGTGGCAGACGTGGTCTTCCATTATCAGAATY			
50900 P	A	A	CGCGCCGAGGATGGTCTTCCATTATCAGAATCY			
50900 T	G	A	ACATGATTCTGATAATGGAAGACCACGTCACCCAAAGCACTTCAGTCCTGGTCTGGCT			
50900 T	A	A	ACATGATTCTGATAATGGAAGACCATGTCACCCAAAGCACTTCAGTCCTGGTCTGGCT			
50900 IS	[GA]		ATGGGAGGCACAGCCTGAGACCTGCAGAAGCCAGACCAGGACTGAAGTGCTTTGGGTGAC[GA]TGGTCTTCCATTAT CAGAATCATGTTGGGAGGGACCAGGCCGAGTGCCATCGGCTCCCAG	ctg14747	2	
51015 I		A	TGGGATTTGTAGTTCTTTGAACAGGAGTACCGTTTGTATTCTGACT			
51015 P	G	A	ATGACGTGGCAGCGAGACCAAGCGGTTATCY			
51015 P	C	A	CGCGCCGAGGCAGACCAAGCGGTTATCY			
51015 T	G	A	CCTTGATAACCGCTTGGTCTCGTCAGAATACAAACGGTACTCCTGTTCAAAGAACTACAAATCCCAGA			
51015 T	C	A	CCTTGATAACCGCTTGGTCTGGTCAGAATACAAACGGTACTCCTGTTCAAAGAACTACAAATCCCAGA			
51015 IS	[GC]		GCCGAAAAGGCCTTCTGGGATTTGTAGTTCTTTGAACAGGAGTACCGTTTGTATTCTGAC[GC]AGACCAAGCGGTTAT CAAGGAATAATCTCTTCAGCTAGCAACAAATGCATAACTCGATCG	ctg17326	12	
51034 I		A	CTCTGTATCTTCTCTCCCTCCGCTCTCCCCT			
51034 P	C	A	ATGACGTGGCAGACCACTTCCCTCTCTTGCAY			
51034 P	A	A	CGCGCCGAGGAACTTCCCTCTCTTGCAY			
51034 T	C	A	AGAATGCAAGAGAGGGAAGTGGGGGAGAGCGGAGGGAGAGAAGATACAGAGGG			
51034 T	A	A	AGAATGCAAGAGAGGGAAGTTGGGGAGAGCGGAGGGAGAGAAGATACAGAGGG			
51034 IS	[CA]		TCTTCATTGCCCCATCCTCTCTCCACCTCCCTCTGTATCTTCTCTCCCTCCGCTCTCCCC[CA]ACTTCCCTCTCTTGCA TTCTCTCGCTTCTGTTCTGTCTCCCCGCACCCTTGTTCTGCTCA	ctg22fin4	22	
51076 I		S	GGTGTCGGTTTGCCACAGTGGCACTT			
51076 P	G	S	ATGACGTGGCAGACCGCTTTTGTGTCATTTGCY			
51076 P	T	S	CGCGCCGAGGAGCTTTTGTGTCATTTGCY			
51076 T	G	S	AAAGGCAAATGACACAAAAGCGAGTGCCACTGTGGCAAACCGACACCAG			
51076 T	T	S	AAAGGCAAATGACACAAAAGCTAGTGCCACTGTGGCAAACCGACACCAG			
51076 IS	[GT]		CAGAGCAGCCAGTGACAGGATGAGCTCTGGGAACTGGGGAAAGGCAAATGACACAAAAGC[GT]AGTGCCACTGTGGC AAACCGACACCAGCACCTCGGACCACAAGTGGCGGCTTAACAGAAT	ctg12729	1	
51107 I		A	CCCAGGGGGTGTGATGGAGGCAAAGT			
51107 P	G	A	ATGACGTGGCAGACGGGATGGTATAGACTGAGCY			
51107 P	A	A	CGCGCCGAGGAGGATGGTATAGACTGAGCY			
51107 T	G	A	GAGGGCTCAGTCTATACCATCCCCTTTGCCTCCATCACACCCCCTGGGGC			
51107 T	A	A	GAGGGCTCAGTCTATACCATCCTCTTTGCCTCCATCACACCCCCTGGGGC			
51107 IS	[GA]		GAGGTGGACTCAGGGCCCTCCAGCCCTGGCGCTGCCCCAGGGGGTGTGATGGAGGCAAAG[GA]GGATGGTATAGA CTGAGCCCTCCCTCTTCCCACTCTGGCTCCCCCAGGTACCACGACAAG	ctg12325	11	
51224 I		A	ACACTCCCCATGGCTCTGGATTTATGATGTAAGCCT			
51224 P	A	A	CGCGCCGAGGAAACGTGGATACTGAGCY			

FIGURE 129D

51224 P	G	A	ATGACGTGGCAGACGAACGTGGATACTGAGCY					
51224 T	A	A	TCTGGCTCAGTATCCACGTTTGGCTTACATCATAAATCCAGAGCCATGGGGAGTGTCT					
51224 T	G	A	TCTGGCTCAGTATCCACGTTCGGCTTACATCATAAATCCAGAGCCATGGGGAGTGTCT					
51224 IS	[AG]		TAGGCTCCGATGAAGTAGGGAAAAGACACTCCCCATGGCTCTGGATTTATGATGTAAGCC[AG]AACGTGGATACTGAG CCAGACACGGAGCAGTGACTTTCCATTTTCCTACGACACCTCAAT	ctg15285	12			
51232 I		A	GCAGACGTTGCATTTGTAGGGACGAATGCCTGT					
51232 P	C	A	ATGACGTGGCAGACCAAGGATGAGGGACAGAY					
51232 P	A	A	CGCGCCGAGGAAAGGATGAGGGACAGAY					
51232 T	C	A	TGTGTCTGTCCCTCATCCTTCGCAGGCATTCGTCCCTACAAATGCAACGTCTGCAA					
51232 T	A	A	TGTGTCTGTCCCTCATCCTTTCAGGCATTCGTCCCTACAAATGCAACGTCTGCAA					
51232 IS	[CA]		GAGAGCAGCGCTGGGTGAAGGCTTTATTGCAGACGTTGCATTTGTAGGGACGAATGCCTG[CA]AAGGATGAGGGACA GACACAGCATCGGTTGGTCATGGCCAAGCCAGAACCACCCAACTAT	ctg16279	17			
51285 I		A	CAGCAGGTGCCGGTAGTGGGACGA					
51285 P	C	A	ATGACGTGGCAGACCGATTTCCATATCTTCCTTTCY					
51285 P	T	A	CGCGCCGAGGTGATTTCCATATCTTCCTTTCGY					
51285 T	C	A	CAACCGAAAGGAAGATATGGAAATCGCGTCCCACTACCGGCACCTGCTGCG					
51285 T	T	A	CAACCGAAAGGAAGATATGGAAATCACGTCCCACTACCGGCACCTGCTGCG					
51285 IS	[CT]		ACAGGACGCCGTGCTGCCTCTGCTCGTTGAGCTCCCGCAGCAGGTGCCGGTAGTGGGACG[CT]GATTTCCATATCTT CCTTTCGGTTGTTCATTTGGAAGCCCTGGTGTCGCCTCTTCTACAG	MULTIPLE	MULTIPLE			
51292 I		S	GGTGTGCAGTCCTCAGGCGGCCA					
51292 P	A	S	CGCGCCGAGGTCCTGAGCTCGCAGY					
51292 P	G	S	ATGACGTGGCAGACCCCTGAGCTCGCAY					
51292 T	A	S	CTGGCTGCGAGCTCAGGAGGCCGCCTGAGGACTGCACACCGG					
51292 T	G	S	CTGGCTGCGAGCTCAGGGGGCCGCCTGAGGACTGCACACCGG					
51292 IS	[AG]		ATGTGCCTCATCACACCATCCATCCTGGAGGCACAAGGCCTGGCTGGCTGCGAGCTCAGG[AG]GGCCGCCTGAGGA CTGCACACCGGGCCCACACCTCTCCTGCCCCTCCCTCCTGAGTCCTG					
51781 I		S	GGTCATACTTGTAATCTGCAACCACTGGATCTGTTCTTGTGAATT					
51781 P	C	S	ATGACGTGGCAGACGGAATGTCTTCGTAATGTGG					
51781 P	T	S	CGCGCCGAGGAGAATGTCTTCGTAATGTGGV					
51781 T	C	S	TACTCCACATTACGAAGACATTCCATTCACAAGAACAGATCCAGTGGTTGCAGATTACAAGTATGACCTG					
51781 T	T	S	TACTCCACATTACGAAGACATTCTATTCACAAGAACAGATCCAGTGGTTGCAGATTACAAGTATGACCTG					
51781 IS	[CT]		TCAAGCCCTTCACTACTGTTGACTTCTCCAGCATTTCTACTCCACATTACGAAGACATTC[CT]ATTCACAAGAACAGATC CAGTGGTTGCAGATTACAAGTATGACCTGAAACTTCAAGAGTA					PPARG
51792 I		S	GGTACTGCACCAGGCGGCCGCT					
51792 P	C	S	ATGACGTGGCAGACGCACGTCCTCCATGT					
51792 P	T	S	CGCGCCGAGGACACGTCCTCCATGTCV					
51792 T	C	S	CGCGGACATGGAGGACGTGCGCGGCCGCCTGGTGCAGTACCGC					
51792 T	T	S	CGCGGACATGGAGGACGTGTGCGGCCGCCTGGTGCAGTACCGC					
51792 IS	[CT]		CGGCTGTCCAAGGAGCTGCAGGCGGCGCAGGCCCGGCTGGGCGCGGACATGGAGGACGTG[CT]GCGGCCGCCTG GTGCAGTACCGCGGCGAGGTGCAGGCCATGCTCGGCCAGAGCACCGAGG	ctg16733	3	APOE		
51793 I		A	AGAGCGGCCAGCGCTGGGAACA					
51793 P	C	A	ATGACGTGGCAGACCGGCACTGGGTCGV					
51793 P	T	A	CGCGCCGAGGTGGCACTGGGTCGV					
51793 T	C	A	AAAGCGACCCAGTGCCGGTTCCCAGCGCTGGCCGCTCTGC					
51793 T	T	A	AAAGCGACCCAGTGCCAGTTCCCAGCGCTGGCCGCTCTGC					
51793 IS	[CT]		CAGAGCCGGAGCCCGAGCTGCGCCAGCAGACCGAGTGGCAGAGCGGCCAGCGCTGGGAAC[CT]GGCACTGGGTCG CTTTTGGGATTACCTGCGCTGGGTGCAGACACTGTCTGAGCAGGTGCA	ctg15944	11	APOE		
52043 I		S	GGAGGAAGCAGAGCAGGGAGTGAAAAAT					
52043 P	C	S	ATGACGTGGCAGACGAGAGGCCCAGCAAY					
52043 P	T	S	CGCGCCGAGGAAGAGGCCCAGCAATY					
52043 T	C	S	GCCAATTGCTGGGCCTCTCTTTTTCACTCCCTGCTCTGCTTCCTCCGA					
52043 T	T	S	GCCAATTGCTGGGCCTCTTTTTTTCACTCCCTGCTCTGCTTCCTCCGA					
52043 IS	[CT]		AAATTGTTTTTTGAATTGATTTAAGAAAATGATACAGATATTGCCAATTGCTGGGCCTCT[CT]TTTTTCACTCCCTGCTC TGCTTCCTCCGATTATTAAATCAAACCAATAAGATTAACATAA	ctg22fin4	22			
52057 I		A	ACGCCAAGGGAGAGTTCGGGACGGT					
52057 P	G	A	ATGACGTGGCAGACGAGCGGCTCCCTCY					
52057 P	C	A	CGCGCCGAGGCAGCGGCTCCCTCY					
52057 T	G	A	CTGGGAGGGAGCCGCTCCCGTCCCGAACTCTCCCTTGGCGTCA					
52057 T	C	A	CTGGGAGGGAGCCGCTGCCGTCCCGAACTCTCCCTTGGCGTCA					
52057 IS	[GC]		GGACGCAATCGGGAACCAGCCCACTCCTGCTGACTGACGCCAAGGGAGAGTTCGGGACGG[GC]AGCGGCTCCCTCC CAGATCTGTAGCCGGCTGGGGCTCGCGGGGGGGCTCCCTTCCCGGGGA	ctg22fin4	22			
52202 I		A	CGGTGCATTACTCTGAAATGACCTAGTACTTGAACAATTAATTTTA					
52202 P	T	A	CGCGCCGAGGTAAGGTGTAGCATTGACTTCY					
52202 P	C	A	ATGACGTGGCAGACCAAGGTGTAGCATTGACTTY					
52202 T	T	A	AGGGGAAGTCAATGCTACACCTTAAAAATTAATTGTTCAAGTACTAGGTCATTTCAGAGTAATGCACCGTG					
52202 T	C	A	AGGGGAAGTCAATGCTACACCTTGAAAATTAATTGTTCAAGTACTAGGTCATTTCAGAGTAATGCACCGTG					
52202 IS	[TC]		AATAACATAATTTCACGGTGCATTACTCTGAAATGACCTAGTACTTGAACAATTAATTTT[TC]AAGGTGTAGCATTGACT TCCCCTTGCTGTATTTAACCCATATCTGAAATTGTCAACAATG	MULTIPLE	MULTIPLE			
52274 I		S	TGAGCATTCTGTCATATTTGCTTCATCTTTTAGAAAAAATTACCTACAA					
52274 P	G	S	ATGACGTGGCAGACCGTTTGGTGCTGCCY					
52274 P	A	S	CGCGCCGAGGTGTTTGGTGCTGCCTY					
52274 T	G	S	ATACAGGCAGCACCAAACGTGTAGGTAATTTTTTCTAAAAGATGAAGCAAATATGACAGAATGCTCATT					
52274 T	A	S	ATACAGGCAGCACCAAACATGTAGGTAATTTTTTCTAAAAGATGAAGCAAATATGACAGAATGCTCATT					
52274 IS	[GA]		AAACACCGAATTCAGAAGAGTGGTTAGCACTGGGATGGGGATATACAGGCAGCACCAAAC[GA]TGTAGGTAATTTTTT CTAAAAGATGAAGCAAATATGACAGAATGCTCATTAGACTTTACT	MULTIPLE	MULTIPLE			
52286 I		S	GCTACTGATCCTTCTTGCTGTCTCTTGGACTCCATGTAT					
52286 P	C	S	ATGACGTGGCAGACGTAACCATGTACAAGTTATCACY					
52286 P	T	S	CGCGCCGAGGATAACCATGTACAAGTTATCACCY					
52286 T	C	S	TGGCGGTGATAACTTGTACATGGTTACTACATGGAGTCCAAGAGACAGCAAGAAGGATCAGTAGCAT					
52286 T	T	S	TGGCGGTGATAACTTGTACATGGTTATTACATGGAGTCCAAGAGACAGCAAGAAGGATCAGTAGCAT					
52286 IS	[CT]		GGTGACACCTCCTAATCTACACTCATCTGTAAAATGGCGGTGATAACTTGTACATGGTTA[CT]TACATGGAGTCCAAGA GACAGCAAGAAGGATCAGTAGCATGGTGCCCGCACCTAGCAGCC	MULTIPLE	22			
52318 I		A	AGAGATGTGCCTGACCACCATGCCGGT					
52318 P	C	A	ATGACGTGGCAGACCCCACCTCCAGGGY					
52318 P	A	A	CGCGCCGAGGACCACCTCCAGGGTY					
52318 T	C	A	TTGGACCCTGGAGGTGGGCCGGCATGGTGGTCAGGCACATCTCTGC					
52318 T	A	A	TTGGACCCTGGAGGTGGTCCGGCATGGTGGTCAGGCACATCTCTGC					
52318 IS	[CA]		ACCAGAGGAAGCTCGTGTCTGCCCTACACAGAGCAGAGATGTGCCTGACCACCATGCCGG[CA]CCACCTCCAGGGTC CAACAAAAATGCTTGAGATTGACCCCCCAACACACACTCAAAAAAA	ctg22fin4	22			
52364 I		A	GGTTTTCCACACTGGCTGATGAGGGCTCTT					
52364 P	C	A	CGCGCCGAGGCTCACTCTCAATCTTCTCTTGY					

FIGURE 129D

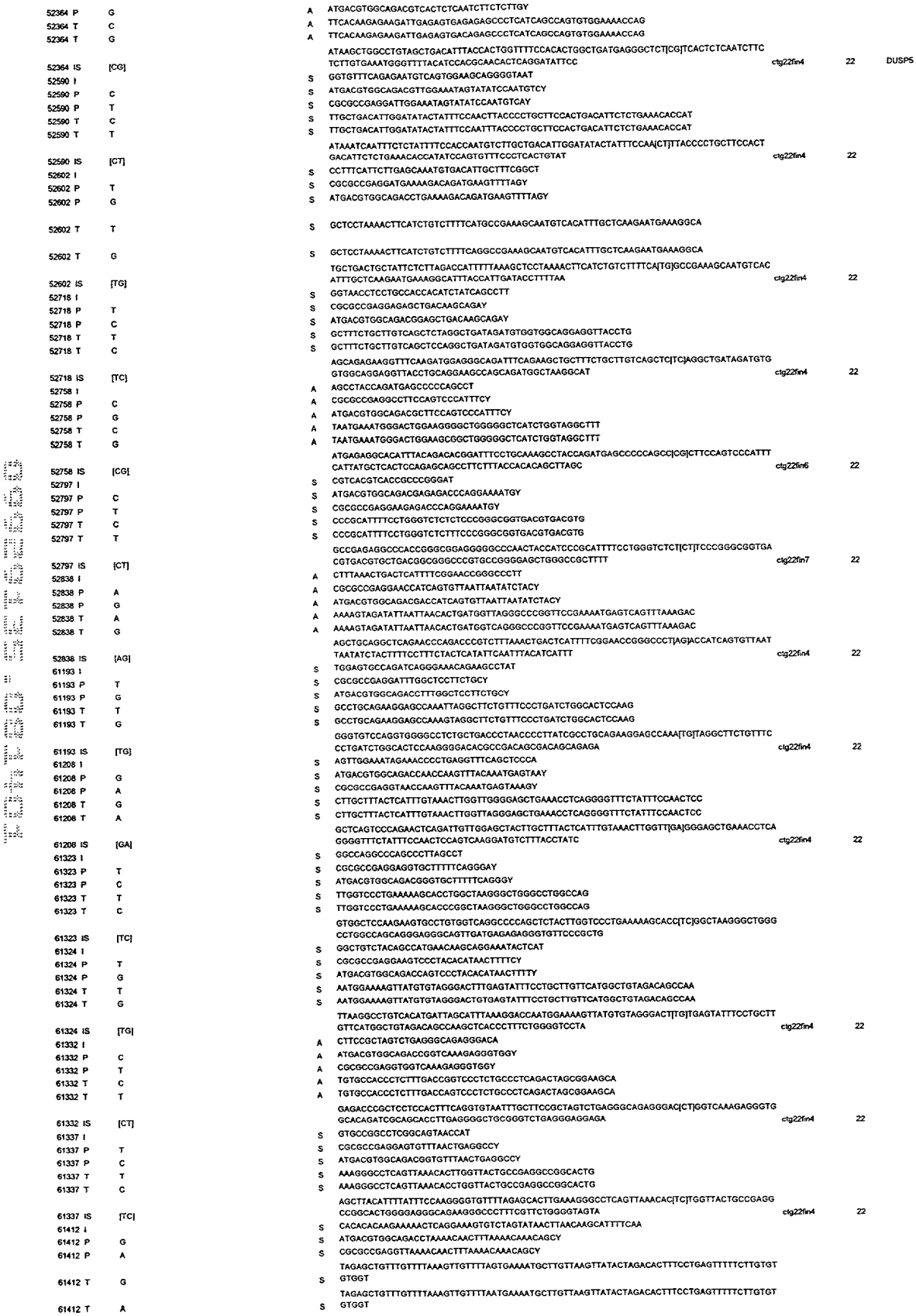

52364 P G A ATGACGTGGCAGACGTCACTCTCAATCTTCTCTTGY
52364 T C A TTCACAAGAGAAGATTGAGAGTGAGAGAGCCCTCATCAGCCAGTGTGGAAAACCAG
52364 T G A TTCACAAGAGAAGATTGAGAGTGACAGAGCCCTCATCAGCCAGTGTGGAAAACCAG
52364 IS [CG] ATAAGCTGGCCTGTAGCTGACATTTACCACTGGTTTTCCACACTGGCTGATGAGGGCTCT[CG]TCACTCTCAATCTTC TCTTGTGAAATGGGTTTTACATCCACGCAACACTCAGGATATTCC ctg22fin4 22 DUSP5
52590 I S GGTGTTTCAGAGAATGTCAGTGGAAGCAGGGGTAAT
52590 P C S ATGACGTGGCAGACGTTGGAAATAGTATATCCAATGTCY
52590 P T S CGCGCCGAGGATTGGAAATAGTATATCCAATGTCAY
52590 T C S TTGCTGACATTGGATATACTATTTCCAACTTACCCCTGCTTCCACTGACATTCTCTGAAACACCAT
52590 T T S TTGCTGACATTGGATATACTATTTCCAATTTACCCCTGCTTCCACTGACATTCTCTGAAACACCAT
52590 IS [CT] ATAAATCAATTTCTCTATTTTCCACCAATGTCTTGCTGACATTGGATATACTATTTCCAA[CT]TTACCCCTGCTTCCACT GACATTCTCTGAAACACCATATCCAGTGTTTCCCTCACTGTAT ctg22fin4 22
52602 I S CCTTTCATTCTTGAGCAAATGTGACATTGCTTTCGGCT
52602 P T S CGCGCCGAGGATGAAAAGACAGATGAAGTTTTAGY
52602 P G S ATGACGTGGCAGACCTGAAAAGACAGATGAAGTTTTAGY
52602 T T S GCTCCTAAAACTTCATCTGTCTTTTCATGCCGAAAGCAATGTCACATTTGCTCAAGAATGAAAGGCA
52602 T G S GCTCCTAAAACTTCATCTGTCTTTTCAGGCCGAAAGCAATGTCACATTTGCTCAAGAATGAAAGGCA
52602 IS [TG] TGCTGACTGCTATTCTCTTAGACCATTTTTAAAGCTCCTAAAACTTCATCTGTCTTTTCA[TG]GCCGAAAGCAATGTCAC ATTTGCTCAAGAATGAAAGGCATTTACCATTGATACCTTTTAA ctg22fin4 22
52718 I S GGTAACCTCCTGCCACCACATCTATCAGCCTT
52718 P T S CGCGCCGAGGAGAGCTGACAAGCAGAY
52718 P C S ATGACGTGGCAGACGGAGCTGACAAGCAGAY
52718 T T S GCTTTCTGCTTGTCAGCTCTAGGCTGATAGATGTGGTGGCAGGAGGTTACCTG
52718 T C S GCTTTCTGCTTGTCAGCTCCAGGCTGATAGATGTGGTGGCAGGAGGTTACCTG
52718 IS [TC] AGCAGAGAAGGTTTCAAGATGGAGGGCAGATTTCAGAAGCTGCTTTCTGCTTGTCAGCTC[TC]AGGCTGATAGATGTG GTGGCAGGAGGTTACCTGCAGGAAGCCAGCAGATGGCTAAGGCAT ctg22fin4 22
52758 I A AGCCTACCAGATGAGCCCCCAGCCT
52758 P C A CGCGCCGAGGCCTTCCAGTCCCATTTCY
52758 P G A ATGACGTGGCAGACGCTTCCAGTCCCATTTCY
52758 T C A TAATGAAATGGGACTGGAAGGGGCTGGGGGGCTCATCTGGTAGGCTTT
52758 T G A TAATGAAATGGGACTGGAAGCGGCTGGGGGCTCATCTGGTAGGCTTT
52758 IS [CG] ATGAGAGGCACATTTACAGACACGGATTTCCTGCAAAGCCTACCAGATGAGCCCCCAGCC[CG]CTTCCAGTCCCATTT CATTATGCTCACTCCAGAGCAGCCTTCTTTACCACACAGCTTAGC ctg22fin6 22
52797 I S CGTCACGTCACCGCCCGGGAT
52797 P C S ATGACGTGGCAGACGAGAGACCCAGGAAAATGY
52797 P T S CGCGCCGAGGAAGAGACCCAGGAAAATGY
52797 T C S CCCGCATTTTCCTGGGTCTCTCTCCCGGGCGGTGACGTGACGTG
52797 T T S CCCGCATTTTCCTGGGTCTCTTTCCCGGGCGGTGACGTGACGTG
52797 IS [CT] GCCGAGAGGCCCACCGGGCGGAGGGGGCCCAACTACCATCCCGCATTTTCCTGGGTCTCT[CT]TCCCGGGCGGTGA CGTGACGTGCTGACGGCGGGCCCGTGCCGGGGAGCTGGGCCGCTTTT ctg22fin7 22
52838 I A CTTTAAACTGACTCATTTTCGGAACCGGGCCCTT
52838 P A A CGCGCCGAGGAACCATCAGTGTTAATTAATATCTACY
52838 P G A ATGACGTGGCAGACGACCATCAGTGTTAATTAATATCTACY
52838 T A A AAAAGTAGATATTAATTAACACTGATGGTTAGGGCCCGGTTCCGAAAATGAGTCAGTTTAAAGAC
52838 T G A AAAAGTAGATATTAATTAACACTGATGGTCAGGGCCCGGTTCCGAAAATGAGTCAGTTTAAAGAC
52838 IS [AG] AGCTGCAGGCTCAGAACCCAGACCCGTCTTTAAACTGACTCATTTTCGGAACCGGGCCCT[AG]ACCATCAGTGTTAAT TAATATCTACTTTTCCTTTCTACTCATATTCAATTTACATCATTT ctg22fin4 22
61193 I S TGGAGTGCCAGATCAGGGAAACAGAAGCCTAT
61193 P T S CGCGCCGAGGATTTGGCTCCTTCTGCY
61193 P G S ATGACGTGGCAGACCTTTGGCTCCTTCTGCY
61193 T T S GCCTGCAGAAGGAGCCAAATTAGGCTTCTGTTTCCCTGATCTGGCACTCCAAG
61193 T G S GCCTGCAGAAGGAGCCAAAGTAGGCTTCTGTTTCCCTGATCTGGCACTCCAAG
61193 IS [TG] GGGTGTCCAGGTGGGGCCTCTGCTGACCCTAACCCCTTATCGCCTGCAGAAGGAGCCAAA[TG]TAGGCTTCTGTTTC CCTGATCTGGCACTCCAAGGGGACACGCCGACAGCGACAGCAGAGA ctg22fin4 22
61208 I S AGTTGGAAATAGAAACCCCTGAGGTTTCAGCTCCCA
61208 P G S ATGACGTGGCAGACCAACCAAGTTTACAAATGAGTAAY
61208 P A S CGCGCCGAGGTAACCAAGTTTACAAATGAGTAAAGY
61208 T G S CTTGCTTTACTCATTTGTAAACTTGGTTGGGGAGCTGAAACCTCAGGGGTTTCTATTTCCAACTCC
61208 T A S CTTGCTTTACTCATTTGTAAACTTGGTTAGGGAGCTGAAACCTCAGGGGTTTCTATTTCCAACTCC
61208 IS [GA] GCTCAGTCCCAGAACTCAGATTGTTGGAGCTACTTGCTTTACTCATTTGTAAACTTGGTT[GA]GGGAGCTGAAACCTCA GGGGTTTCTATTTCCAACTCCAGTCAAGGATGTCTTTACCTATC ctg22fin4 22
61323 I S GGCCAGGCCCAGCCCTTAGCCT
61323 P T S CGCGCCGAGGAGGTGCTTTTTCAGGGAY
61323 P C S ATGACGTGGCAGACGGGTGCTTTTTCAGGGY
61323 T T S TTGGTCCCTGAAAAAGCACCTGGCTAAGGGCTGGGCCTGGCCAG
61323 T C S TTGGTCCCTGAAAAAGCACCCGGCTAAGGGCTGGGCCTGGCCAG
61323 IS [TC] GTGGCTCCAAGAAGTGCCTGTGGTCAGGCCCCAGCTCTACTTGGTCCCTGAAAAAGCACC[TC]GGCTAAGGGCTGGG CCTGGCCAGCAGGGAGGGCAGTTGATGAGAGAGGGTGTTCCCGCTG ctg22fin4 22
61324 I S GGCTGTCTACAGCCATGAACAAGCAGGAAATACTCAT
61324 P T S CGCGCCGAGGAAGTCCCTACACATAACTTTTCY
61324 P G S ATGACGTGGCAGACCAGTCCCTACACATAACTTTTY
61324 T T S AATGGAAAAGTTATGTGTAGGGACTTTGAGTATTTCCTGCTTGTTCATGGCTGTAGACAGCCAA
61324 T G S AATGGAAAAGTTATGTGTAGGGACTGTGAGTATTTCCTGCTTGTTCATGGCTGTAGACAGCCAA
61324 IS [TG] TTAAGGCCTGTCACATGATTAGCATTTAAAGGACCAATGGAAAAGTTATGTGTAGGGACT[TG]TGAGTATTTCCTGCTT GTTCATGGCTGTAGACAGCCAAGCTCACCCTTTCTGGGGTCCTA ctg22fin4 22
61332 I A CTTCCGCTAGTCTGAGGGCAGAGGGACA
61332 P C A ATGACGTGGCAGACCGGTCAAAGAGGGTGGY
61332 P T A CGCGCCGAGGTGGTCAAAGAGGGTGGY
61332 T C A TGTGCCACCCTCTTTGACCGGTCCCTCTGCCCTCAGACTAGCGGAAGCA
61332 T T A TGTGCCACCCTCTTTGACCAGTCCCTCTGCCCTCAGACTAGCGGAAGCA
61332 IS [CT] GAGACCCGCTCCTCCACTTTCAGGTGTAATTTGCTTCCGCTAGTCTGAGGGCAGAGGGAC[CT]GGTCAAAGAGGGTG GCACAGATCGCAGCACCTTGAGGGGCTGCGGGTCTGAGGGAGGAGA ctg22fin4 22
61337 I S GTGCCGGCCTCGGCAGTAACCAT
61337 P T S CGCGCCGAGGAGTGTTTAACTGAGGCCY
61337 P C S ATGACGTGGCAGACGGTGTTTAACTGAGGCCY
61337 T T S AAAGGGCCTCAGTTAAACACTTGGTTACTGCCGAGGCCGGCACTG
61337 T C S AAAGGGCCTCAGTTAAACACCTGGTTACTGCCGAGGCCGGCACTG
61337 IS [TC] AGCTTACATTTTATTTCCAAGGGGTGTTTTAGAGCACTTGAAAGGGCCTCAGTTAAACAC[TC]TGGTTACTGCCGAGG CCGGCACTGGGGAGGGCAGAAGGGCCCTTTCGTTCTGGGGTAGTA ctg22fin4 22
61412 I S CACACACAAGAAAAACTCAGGAAAGTGTCTAGTATAACTTAACAAGCATTTTCAA
61412 P G S ATGACGTGGCAGACCTAAAACAACTTTAAAACAAACAGCY
61412 P A S CGCGCCGAGGTTAAAACAACTTTAAAACAAACAGCY
61412 T G S TAGAGCTGTTTGTTTTAAAGTTGTTTTAGTGAAAATGCTTGTTAAGTTATACTAGACACTTTCCTGAGTTTTTCTTGTGT GTGGT
61412 T A S TAGAGCTGTTTGTTTTAAAGTTGTTTTAATGAAAATGCTTGTTAAGTTATACTAGACACTTTCCTGAGTTTTTCTTGTGT GTGGT

FIGURE 129D

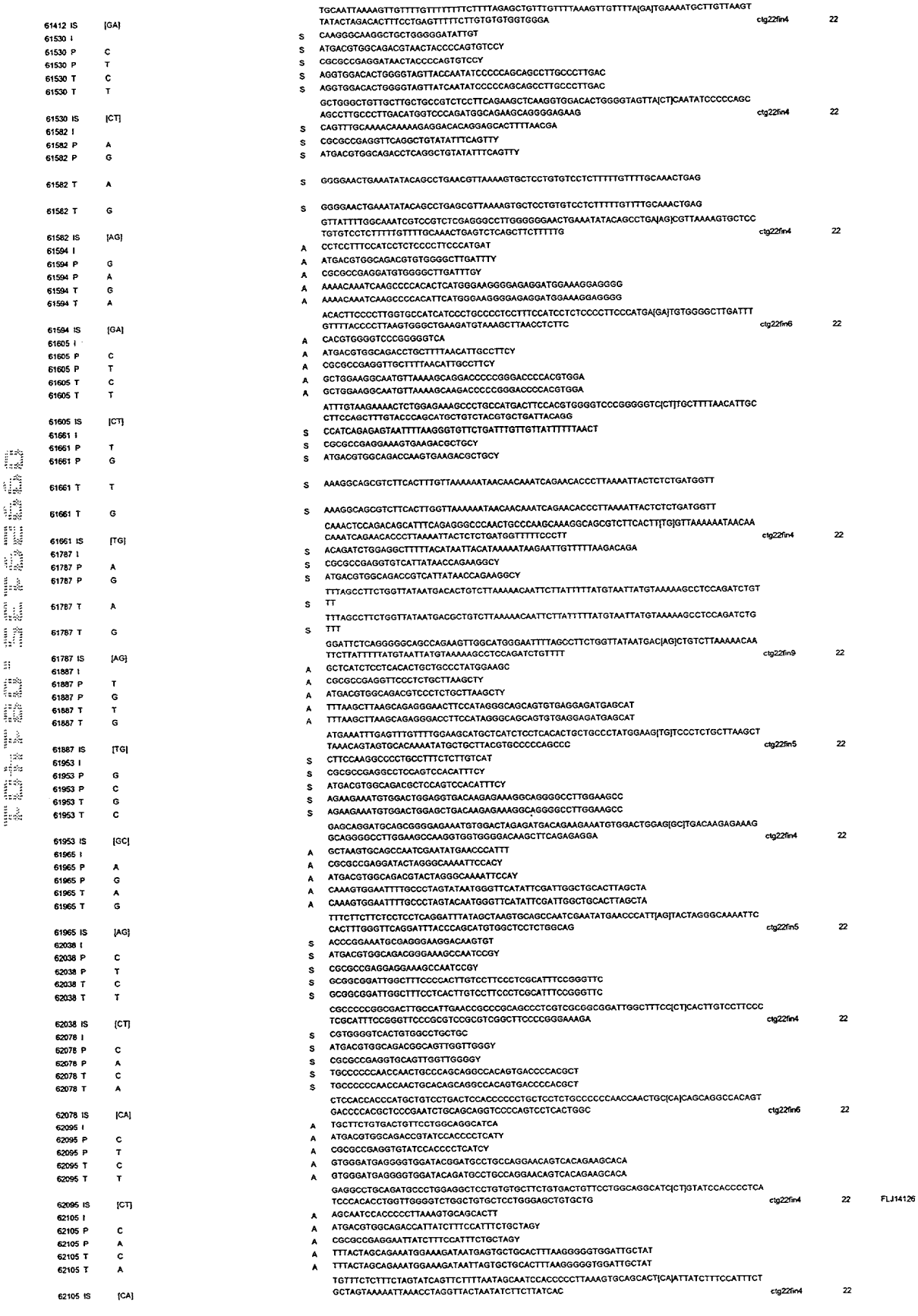

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61412 IS [GA] TATACTAGACACTTTCCTGAGTTTTTCTTGTGTGTGGTGGGA ctg22fin4 22
61530 I S CAAGGGCAAGGCTGCTGGGGGATATTGT
61530 P C S ATGACGTGGCAGACGTAACTACCCCAGTGTCCY
61530 P T S CGCGCCGAGGATAACTACCCCAGTGTCCY
61530 T C S AGGTGGACACTGGGGTAGTTACCAATATCCCCCAGCAGCCTTGCCCTTGAC
61530 T T S AGGTGGACACTGGGGTAGTTATCAATATCCCCCAGCAGCCTTGCCCTTGAC
GCTGGGCTGTTGCTTGCTGCCGTCTCCTTCAGAAGCTCAAGGTGGACACTGGGGTAGTTA[CT]CAATATCCCCCAGC
61530 IS [CT] AGCCTTGCCCTTGACATGGTCCCAGATGGCAGAAGCAGGGGAGAAG ctg22fin4 22
61582 I S CAGTTTGCAAAACAAAAAGAGGACACAGGAGCACTTTTAACGA
61582 P A S CGCGCCGAGGTTCAGGCTGTATATTTCAGTTY
61582 P G S ATGACGTGGCAGACCTCAGGCTGTATATTTCAGTTY
61582 T A S GGGGAACTGAAATATACAGCCTGAACGTTAAAAGTGCTCCTGTGTCCTCTTTTTGTTTTGCAAACTGAG
61582 T G S GGGGAACTGAAATATACAGCCTGAGCGTTAAAAGTGCTCCTGTGTCCTCTTTTTGTTTTGCAAACTGAG
GTTATTTTGGCAAATCGTCCGTCTCGAGGGCCTTGGGGGGAACTGAAATATACAGCCTGA[AG]CGTTAAAAGTGCTCC
61582 IS [AG] TGTGTCCTCTTTTTGTTTTGCAAACTGAGTCTCAGCTTCTTTTTG ctg22fin4 22
61594 I A CCTCCTTTCCATCCTCTCCCCTTCCCATGAT
61594 P G A ATGACGTGGCAGACGTGTGGGGCTTGATTTY
61594 P A A CGCGCCGAGGATGTGGGGCTTGATTTGY
61594 T G A AAAACAAATCAAGCCCCACACTCATGGGAAGGGGAGAGGATGGAAAGGAGGGG
61594 T A A AAAACAAATCAAGCCCCACATTCATGGGAAGGGGAGAGGATGGAAAGGAGGGG
ACACTTCCCCTTGGTGCCATCATCCCTGCCCCTCCTTTCCATCCTCTCCCCTTCCCATGA[GA]TGTGGGGCTTGATTT
61594 IS [GA] GTTTTACCCCTTAAGTGGGCTGAAGATGTAAAGCTTAACCTCTTC ctg22fin6 22
61605 I A CACGTGGGGTCCCGGGGGTCA
61605 P C A ATGACGTGGCAGACCTGCTTTTAACATTGCCTTCY
61605 P T A CGCGCCGAGGTTGCTTTTAACATTGCCTTCY
61605 T C A GCTGGAAGGCAATGTTAAAAGCAGGACCCCCGGGACCCCACGTGGA
61605 T T A GCTGGAAGGCAATGTTAAAAGCAAGACCCCCGGGACCCCACGTGGA
ATTTGTAAGAAAACTCTGGAGAAAGCCCTGCCATGACTTCCACGTGGGGTCCCGGGGGTC[CT]TGCTTTTAACATTGC
61605 IS [CT] CTTCCAGCTTTGTACCCAGCATGCTGTCTACGTGCTGATTACAGG
61661 I S CCATCAGAGAGTAATTTTAAGGGTGTTCTGATTTGTTGTTATTTTTTAACT
61661 P T S CGCGCCGAGGAAAGTGAAGACGCTGCY
61661 P G S ATGACGTGGCAGACCAAGTGAAGACGCTGCY
61661 T T S AAAGGCAGCGTCTTCACTTTGTTAAAAAATAACAACAAATCAGAACACCCTTAAAATTACTCTCTGATGGTT
61661 T G S AAAGGCAGCGTCTTCACTTGGTTAAAAAATAACAACAAATCAGAACACCCTTAAAATTACTCTCTGATGGTT
CAAACTCCAGACAGCATTTCAGAGGGCCCAACTGCCCAAGCAAAGGCAGCGTCTTCACTT[TG]GTTAAAAAATAACAA
61661 IS [TG] CAAATCAGAACACCCTTAAAATTACTCTCTGATGGTTTTTCCCTT ctg22fin4 22
61787 I S ACAGATCTGGAGGCTTTTTACATAATTACATAAAAATAAGAATTGTTTTTAAGACAGA
61787 P A S CGCGCCGAGGTGTCATTATAACCAGAAGGCY
61787 P G S ATGACGTGGCAGACCGTCATTATAACCAGAAGGCY
TTTAGCCTTCTGGTTATAATGACACTGTCTTAAAAACAATTCTTATTTTTATGTAATTATGTAAAAAGCCTCCAGATCTGT
61787 T A S TT
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61787 T G S TTT
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61787 IS [AG] TTCTTATTTTTATGTAATTATGTAAAAAGCCTCCAGATCTGTTTT ctg22fin9 22
61887 I A GCTCATCTCCTCACACTGCTGCCCTATGGAAGC
61887 P T A CGCGCCGAGGTTCCCTCTGCTTAAGCTY
61887 P G A ATGACGTGGCAGACGTCCCTCTGCTTAAGCTY
61887 T T A TTTAAGCTTAAGCAGAGGGAACTTCCATAGGGCAGCAGTGTGAGGAGATGAGCAT
61887 T G A TTTAAGCTTAAGCAGAGGGACCTTCCATAGGGCAGCAGTGTGAGGAGATGAGCAT
ATGAAATTTGAGTTTGTTTTGGAAGCATGCTCATCTCCTCACACTGCTGCCCTATGGAAG[TG]TCCCTCTGCTTAAGCT
61887 IS [TG] TAAACAGTAGTGCACAAAATATGCTGCTTACGTGCCCCCAGCCC ctg22fin5 22
61953 I S CTTCCAAGGCCCCTGCCTTTCTCTTGTCAT
61953 P G S CGCGCCGAGGCCTCCAGTCCACATTTCY
61953 P C S ATGACGTGGCAGACGCTCCAGTCCACATTTCY
61953 T G S AGAAGAAATGTGGACTGGAGGTGACAAGAGAAAGGCAGGGGCCTTGGAAGCC
61953 T C S AGAAGAAATGTGGACTGGAGCTGACAAGAGAAAGGCAGGGGCCTTGGAAGCC
GAGCAGGATGCAGCGGGGAGAAATGTGGACTAGAGATGACAGAAGAAATGTGGACTGGAG[GC]TGACAAGAGAAAG
61953 IS [GC] GCAGGGGCCTTGGAAGCCAAGGTGGTGGGGACAAGCTTCAGAGAGGA ctg22fin4 22
61965 I A GCTAAGTGCAGCCAATCGAATATGAACCCATTT
61965 P A A CGCGCCGAGGATACTAGGGCAAAATTCCACY
61965 P G A ATGACGTGGCAGACGTACTAGGGCAAAATTCCAY
61965 T A A CAAAGTGGAATTTTGCCCTAGTATAATGGGTTCATATTCGATTGGCTGCACTTAGCTA
61965 T G A CAAAGTGGAATTTTGCCCTAGTACAATGGGTTCATATTCGATTGGCTGCACTTAGCTA
TTTCTTCTTCTCCTCCTCAGGATTTATAGCTAAGTGCAGCCAATCGAATATGAACCCATT[AG]TACTAGGGCAAAATTC
61965 IS [AG] CACTTTGGGTTCAGGATTTACCCAGCATGTGGCTCCTCTGGCAG ctg22fin5 22
62038 I S ACCCGGAAATGCGAGGGAAGGACAAGTGT
62038 P C S ATGACGTGGCAGACGGGAAAGCCAATCCGY
62038 P T S CGCGCCGAGGAGGAAAGCCAATCCGY
62038 T C S GCGGCGGATTGGCTTTCCCCACTTGTCCTTCCCTCGCATTTCCGGGTTC
62038 T T S GCGGCGGATTGGCTTTCCTCACTTGTCCTTCCCTCGCATTTCCGGGTTC
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62038 IS [CT] TCGCATTTCCGGGTTCCCGCGTCCGCGTCGGCTTCCCCGGGAAAGA ctg22fin4 22
62078 I S CGTGGGGTCACTGTGGCCTGCTGC
62078 P C S ATGACGTGGCAGACGGCAGTTGGTTGGGY
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62078 T C S TGCCCCCCAACCAACTGCCCAGCAGGCCACAGTGACCCCACGCT
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62078 IS [CA] GACCCCACGCTCCCGAATCTGCAGCAGGTCCCCAGTCCTCACTGGC ctg22fin6 22
62095 I A TGCTTCTGTGACTGTTCCTGGCAGGCATCA
62095 P C A ATGACGTGGCAGACCGTATCCACCCCTCATY
62095 P T A CGCGCCGAGGTGTATCCACCCCTCATCY
62095 T C A GTGGGATGAGGGGTGGATACGGATGCCTGCCAGGAACAGTCACAGAAGCACA
62095 T T A GTGGGATGAGGGGTGGATACAGATGCCTGCCAGGAACAGTCACAGAAGCACA
GAGGCCTGCAGATGCCCTGGAGGCTCCTGTGTGCTTCTGTGACTGTTCCTGGCAGGCATC[CT]GTATCCACCCCTCA
62095 IS [CT] TCCCACACCTGGTTGGGGTCTGGCTGTGCTCCTGGGAGCTGTGCTG ctg22fin4 22 FLJ14126
62105 I A AGCAATCCACCCCCTTAAAGTGCAGCACTT
62105 P C A ATGACGTGGCAGACCATTATCTTTCCATTTCTGCTAGY
62105 P A A CGCGCCGAGGAATTATCTTTCCATTTCTGCTAGY
62105 T C A TTTACTAGCAGAAATGGAAAGATAATGAGTGCTGCACTTTAAGGGGGTGGATTGCTAT
62105 T A A TTTACTAGCAGAAATGGAAAGATAATTAGTGCTGCACTTTAAGGGGGTGGATTGCTAT
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FIGURE 129D

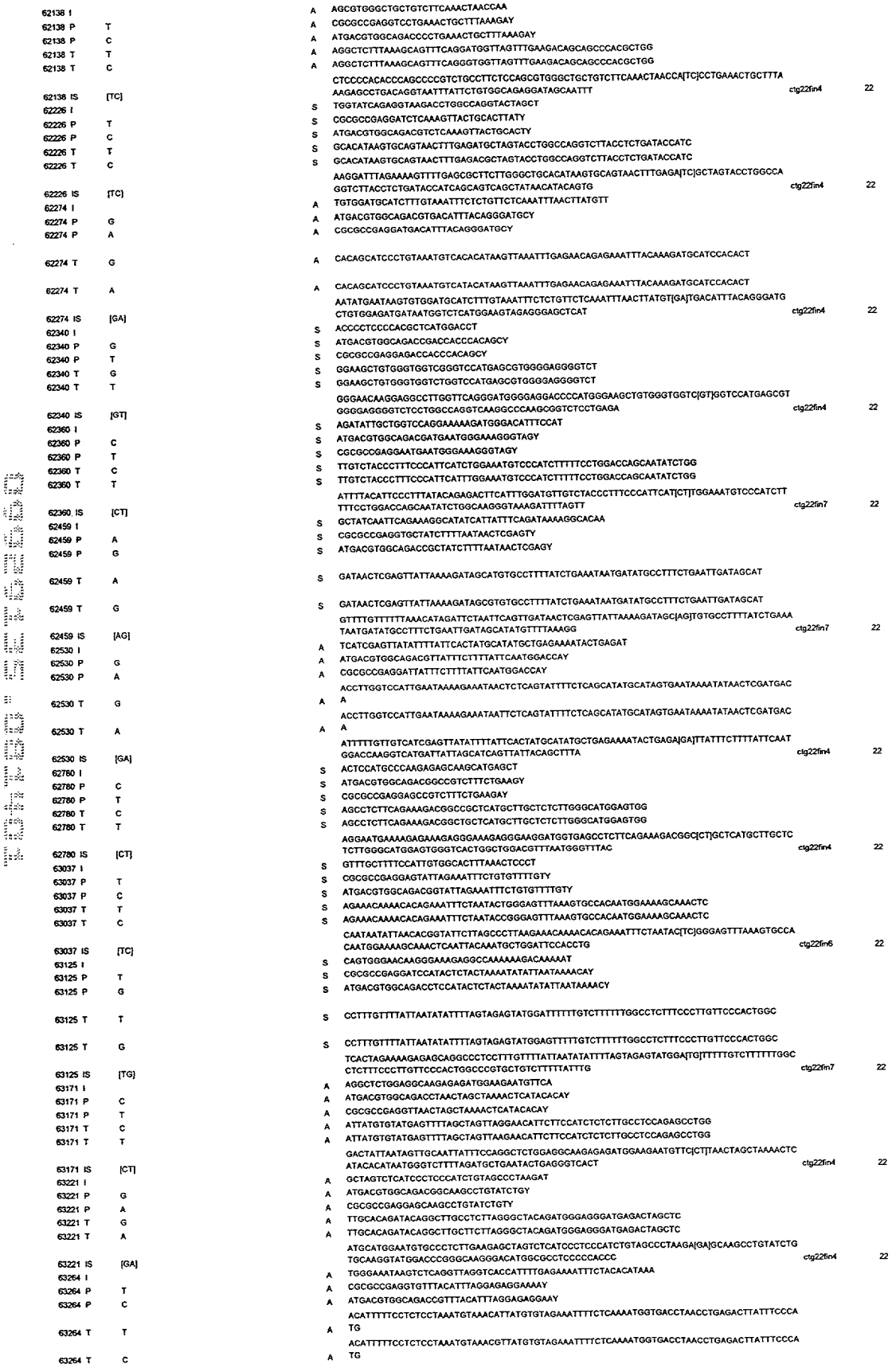


FIGURE 129D

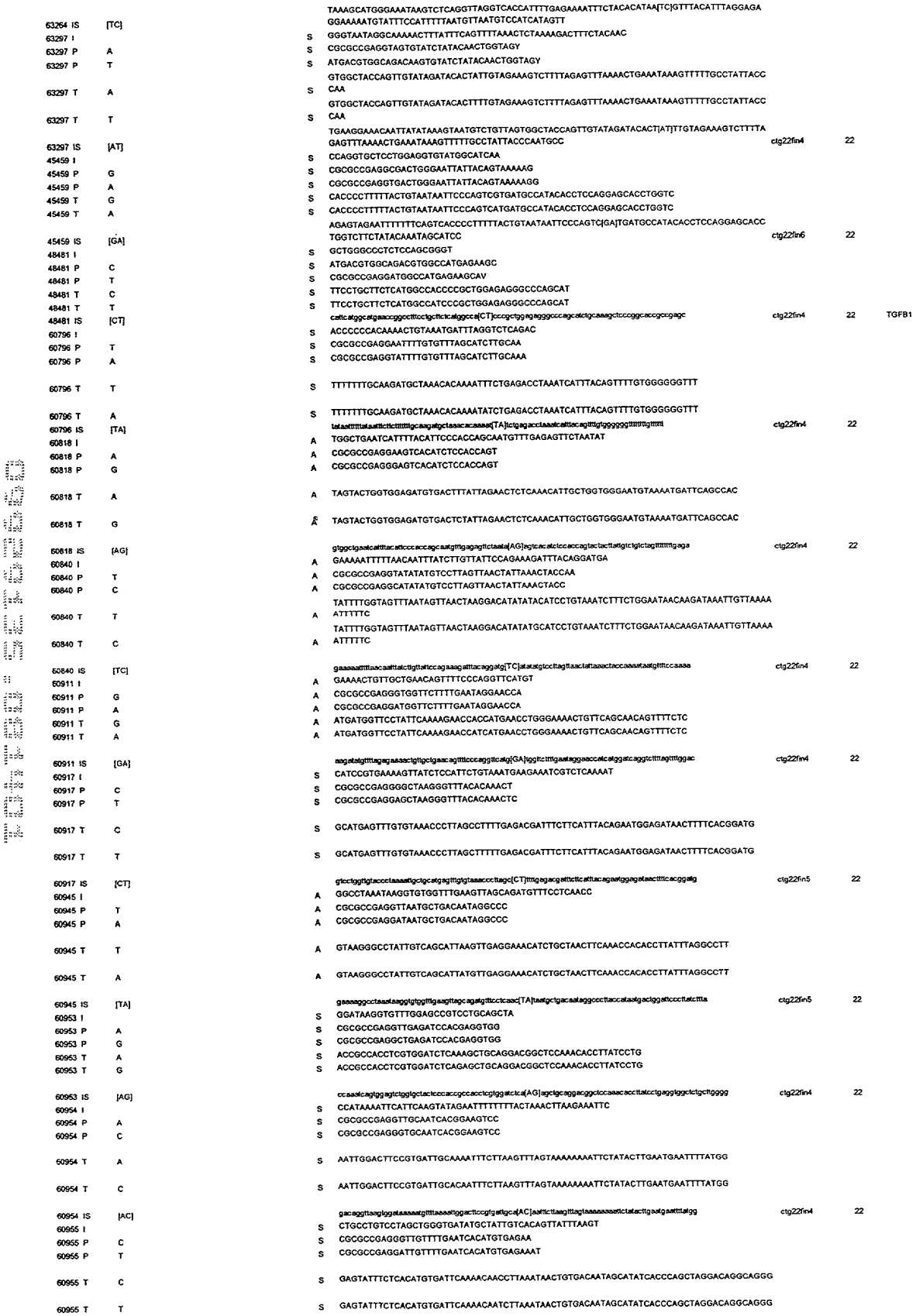


FIGURE 129D

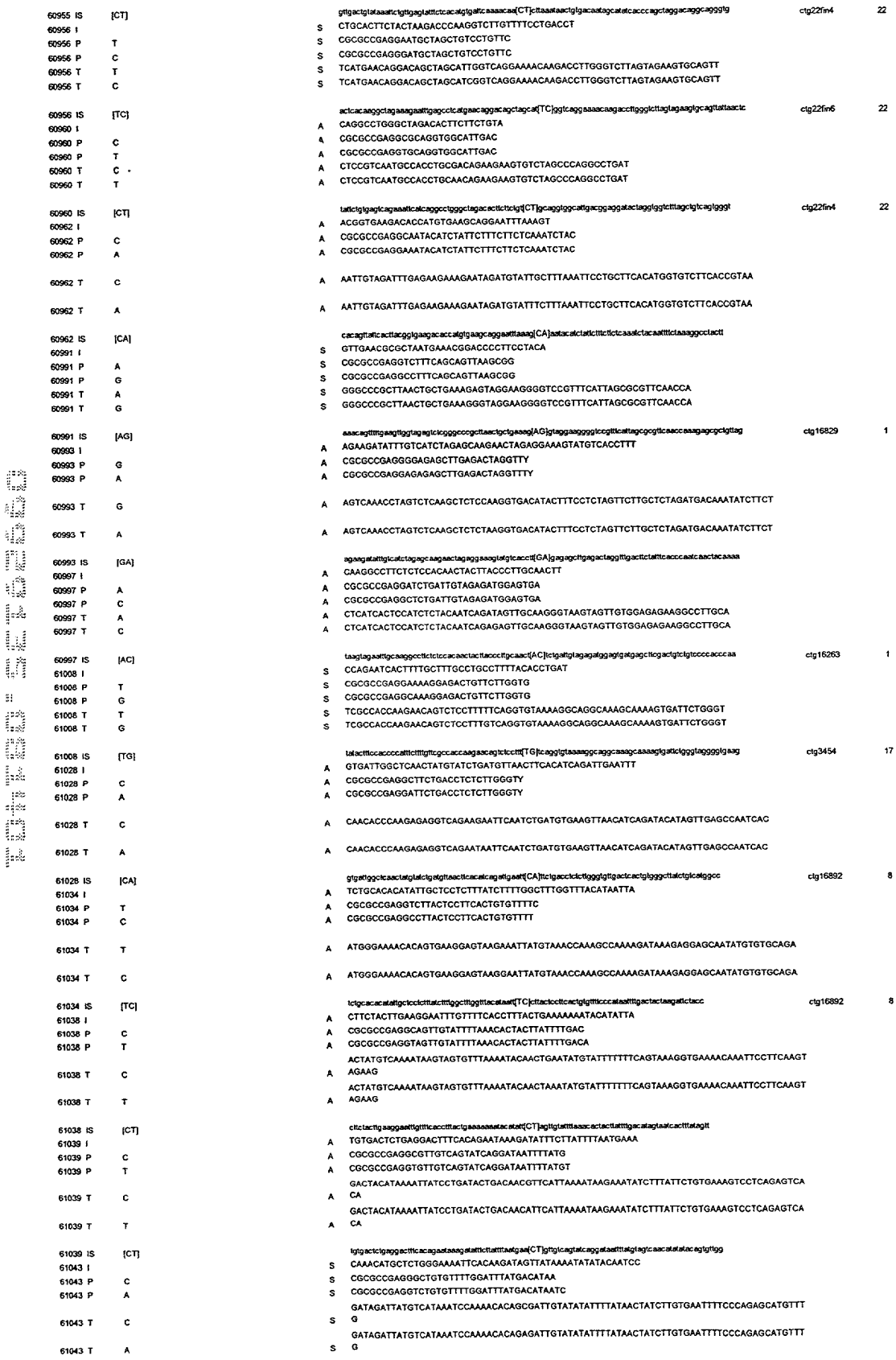

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60956 P T S CGCGCCGAGGAATGCTAGCTGTCCTGTTC
60956 P C S CGCGCCGAGGGATGCTAGCTGTCCTGTTC
60956 T T S TCATGAACAGGACAGCTAGCATTGGTCAGGAAAACAAGACCTTGGGTCTTAGTAGAAGTGCAGTT
60956 T C S TCATGAACAGGACAGCTAGCATCGGTCAGGAAAACAAGACCTTGGGTCTTAGTAGAAGTGCAGTT
60956 IS [TC] actcacaggctagaaagaattgagcctcatgaacaggacagctagcat[TC]ggtcaggaaaacaagaccttgggtcttagtagaagtgcagttattaactc ctg22fin6 22
60960 I A CAGGCCTGGGCTAGACACTTCTTCTGTA
60960 P C A CGCGCCGAGGCGCAGGTGGCATTGAC
60960 P T A CGCGCCGAGGTGCAGGTGGCATTGAC
60960 T C A CTCCGTCAATGCCACCTGCGACAGAAGAAGTGTCTAGCCCAGGCCTGAT
60960 T T A CTCCGTCAATGCCACCTGCAACAGAAGAAGTGTCTAGCCCAGGCCTGAT
60960 IS [CT] tatictgtagtcagaaatticatcaggcctgggctagacacttcttctgt[CT]gcaggtggcattgacggaggatactaggtggtcttagctgtcagtgggt ctg22fin4 22
60962 I A ACGGTGAAGACACCATGTGAAGCAGGAATTTAAAGT
60962 P C A CGCGCCGAGGCAATACATCTATTCTTTCTTCTCAAATCTAC
60962 P A A CGCGCCGAGGAAATACATCTATTCTTTCTTCTCAAATCTAC
60962 T C A AATTGTAGATTTGAGAAGAAAGAATAGATGTATTGCTTTAAATTCCTGCTTCACATGGTGTCTTCACCGTAA
60962 T A A AATTGTAGATTTGAGAAGAAAGAATAGATGTATTTCTTTAAATTCCTGCTTCACATGGTGTCTTCACCGTAA
60962 IS [CA] cacagttatcactacggtgaagacaccatgtgaagcaggaatttaaag[CA]aatacatctatctttctctcaaatctacaatttttctaaaggcctactt
60991 I S GTTGAACGCGCTAATGAAACGGACCCCTTCCTACA
60991 P A S CGCGCCGAGGTCTTTCAGCAGTTAAGCGG
60991 P G S CGCGCCGAGGCCTTTCAGCAGTTAAGCGG
60991 T A S GGGCCCGCTTAACTGCTGAAAGAGTAGGAAGGGGTCCGTTTCATTAGCGCGTTCAACCA
60991 T G S GGGCCCGCTTAACTGCTGAAAGGGTAGGAAGGGGTCCGTTTCATTAGCGCGTTCAACCA
60991 IS [AG] aaacagttttgaagttggtagagtctcgggccccgcttaactgctgaaag[AG]gtaggaaggggtccgtttcattagcgcgttcaaccaaagagcgctgttag ctg16829 1
60993 I A AGAAGATATTTGTCATCTAGAGCAAGAACTAGAGGAAAGTATGTCACCTTT
60993 P G A CGCGCCGAGGGGAGAGCTTGAGACTAGGTTY
60993 P A A CGCGCCGAGGAGAGAGCTTGAGACTAGGTTTY
60993 T G A AGTCAAACCTAGTCTCAAGCTCTCCAAGGTGACATACTTTCCTCTAGTTCTTGCTCTAGATGACAAATATCTTCT
60993 T A A AGTCAAACCTAGTCTCAAGCTCTCTAAGGTGACATACTTTCCTCTAGTTCTTGCTCTAGATGACAAATATCTTCT
60993 IS [GA] agaagatattgtcatctagagcaagaactagaggaaagtatgtcacctt[GA]gagagcttgagactaggttgacttctatttcacccaatcaactacaaaa
60997 I A CAAGGCCTTCTCTCCACAACTACTTACCCTTGCAACTT
60997 P A A CGCGCCGAGGATCTGATTGTAGAGATGGAGTGA
60997 P C A CGCGCCGAGGCTCTGATTGTAGAGATGGAGTGA
60997 T A A CTCATCACTCCATCTCTACAATCAGATAGTTGCAAGGGTAAGTAGTTGTGGAGAGAAGGCCTTGCA
60997 T C A CTCATCACTCCATCTCTACAATCAGAGAGTTGCAAGGGTAAGTAGTTGTGGAGAGAAGGCCTTGCA
60997 IS [AC] taagtagaatttgcaaggccttctctccacaactactaccctgcaact[AC]ctgattgtagagatggagtgatgagctcgactgtctgtcccacccaa ctg16263 1
61008 I S CCAGAATCACTTTTGCTTTGCCTGCCTTTTACACCTGAT
61008 P T S CGCGCCGAGGAAAAGGAGACTGTTCTTGGTG
61008 P G S CGCGCCGAGGCAAAGGAGACTGTTCTTGGTG
61008 T T S TCGCCACCAAGAACAGTCTCCTTTTTCAGGTGTAAAAGGCAGGCAAAGCAAAAGTGATTCTGGGT
61008 T G S TCGCCACCAAGAACAGTCTCCTTTGTCAGGTGTAAAAGGCAGGCAAAGCAAAAGTGATTCTGGGT
61008 IS [TG] tatacttccacccccatttctttttgttcgccaccaagaacagtctcctt[TG]tcaggtgtaaaaggcaggcaaagcaaaagtgatctgggtaggggtgaag ctg3454 17
61028 I A GTGATTGGCTCAACTATGTATCTGATGTTAACTTCACATCAGATTGAATTT
61028 P C A CGCGCCGAGGCTTCTGACCTCTCTTGGGTY
61028 P A A CGCGCCGAGGATTCTGACCTCTCTTGGGTY
61028 T C A CAACACCCAAGAGAGGTCAGAAGAATTCAATCTGATGTGAAGTTAACATCAGATACATAGTTGAGCCAATCAC
61028 T A A CAACACCCAAGAGAGGTCAGAATAATTCAATCTGATGTGAAGTTAACATCAGATACATAGTTGAGCCAATCAC
61028 IS [CA] gtgatggctcaactatgtatctgatgttaacttcacatcagatgaatt[CA]ttctgacctcttcttgggtgttgactcactgtgggcttatctgtcatggcc ctg16892 8
61034 I A TCTGCACACATATTGCTCCTCTTTATCTTTTGGGTTTGGTTTACATAATTA
61034 P T A CGCGCCGAGGTCTTACTCCTTCACTGTGTTTTC
61034 P C A CGCGCCGAGGCCTTACTCCTTCACTGTGTTTT
61034 T T A ATGGGAAAACACAGTGAAGGAGTAAGAAATTATGTAAACCAAAGCCAAAAGATAAAGAGGAGCAATATGTGTGCAGA
61034 T C A ATGGGAAAACACAGTGAAGGAGTAAGGAATTATGTAAACCAAAGCCAAAAGATAAAGAGGAGCAATATGTGTGCAGA
61034 IS [TC] tctgcacacatatgctcctcttatcttgggcttggttacataat[TC]cttactcctcactgtgtttcccataatttgactactaagatctacc ctg16892 8
61038 I A CTTCTACTTGAAGGAATTTGTTTTCACCTTTACTGAAAAAAATACATATTA
61038 P C A CGCGCCGAGGCAGTTGTATTTTAAACACTACTTATTTTGAC
61038 P T A CGCGCCGAGGTAGTTGTATTTTAAACACTACTTATTTTGACA
61038 T C A ACTATGTCAAAATAAGTAGTGTTTAAAATACAACTGAATATGTATTTTTTTTCAGTAAAGGTGAAAACAAATTCCTTCAAGT AGAAG
61038 T T A ACTATGTCAAAATAAGTAGTGTTTAAAATACAACTAAATATGTATTTTTTTCAGTAAAGGTGAAAACAAATTCCTTCAAGT AGAAG
61038 IS [CT] ctctactgaaggaattgtttcaccttactgaaaaaaatactatatt[CT]agttgtatttaaacactactattttgacatagtaatcacttttatagtt
61039 I A TGTGACTCTGAGGACTTTCACAGAATAAAGATATTTCTTATTTTAATGAAA
61039 P C A CGCGCCGAGGCGTTGTCAGTATCAGGATAATTTTATG
61039 P T A CGCGCCGAGGTGTTGTCAGTATCAGGATAATTTTATGT
61039 T C A GACTACATAAAATTATCCTGATACTGACAACGTTCATTAAAATAAGAAATATCTTTATTCTGTGAAAGTCCTCAGAGTCA CA
61039 T T A GACTACATAAAATTATCCTGATACTGACAACATTCATTAAAATAAGAAATATCTTTATTCTGTGAAAGTCCTCAGAGTCA CA
61039 IS [CT] tgtgactctgaggacttcacagaataaagatatttcttatttaatgaa[CT]gttgtcagtatcaggataatttatgtagtcaacatatatacagtgttgg
61043 I S CAAACATGCTCTGGGAAAATTCACAAGATAGTTATAAAATATATACAATCC
61043 P C S CGCGCCGAGGGCTGTGTTTTGGATTTATGACATAA
61043 P A S CGCGCCGAGGTCTGTGTTTTGGATTTATGACATAATC
61043 T C S GATAGATTATGTCATAAATCCAAAACACAGCGATTGTATATATTTTATAACTATCTTGTGAATTTTCCCAGAGCATGTTT G
61043 T A S GATAGATTATGTCATAAATCCAAAACACAGAGATTGTATATATTTTATAACTATCTTGTGAATTTTCCCAGAGCATGTTT G

FIGURE 129D

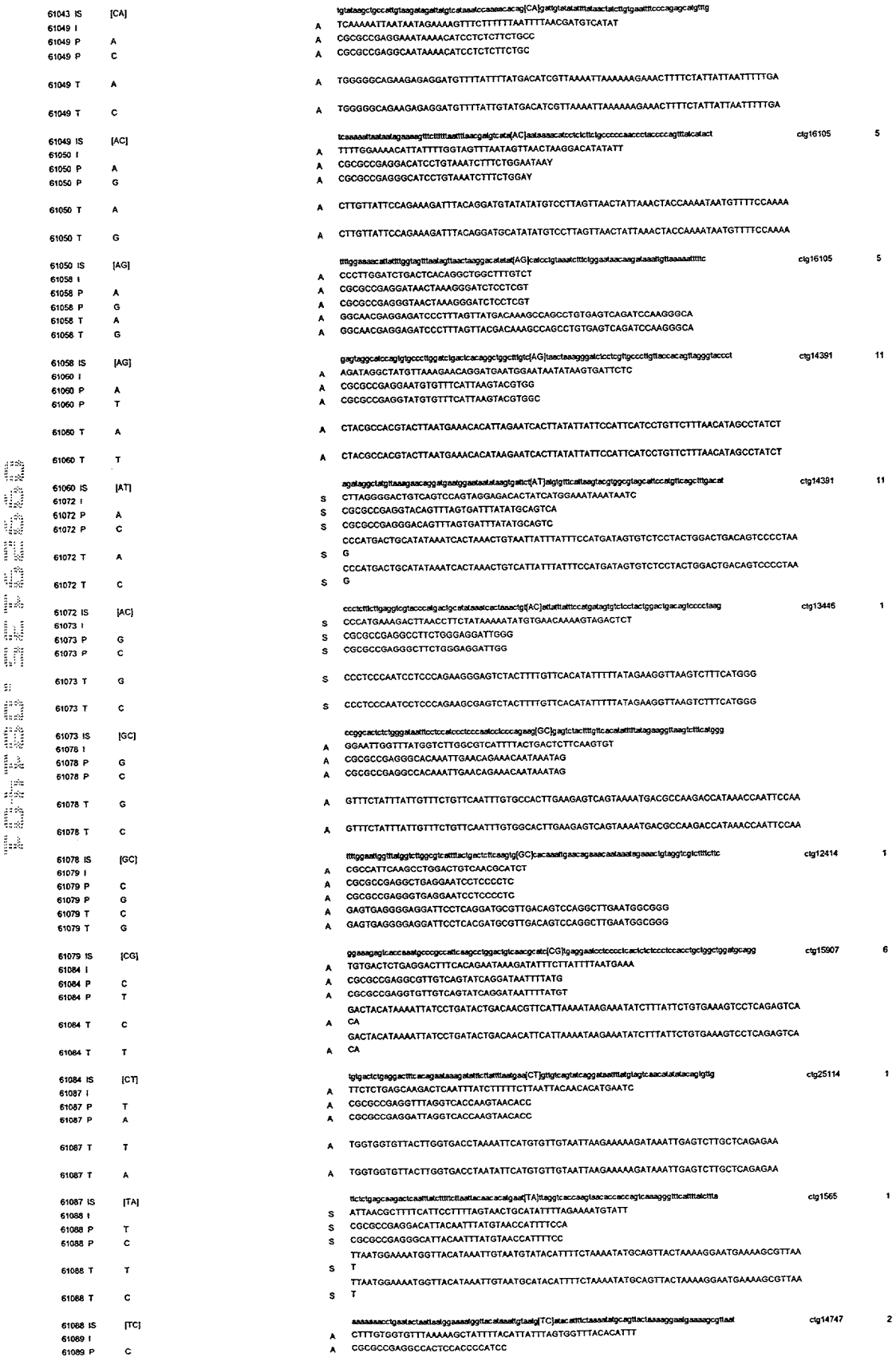

61043 IS [CA]
61049 I
61049 P A
61049 P C
61049 T A
61049 T C
61049 IS [AC]
61050 I
61050 P A
61050 P G
61050 T A
61050 T G
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61058 I
61058 P A
61058 P G
61058 T A
61058 T G
61058 IS [AG]
61060 I
61060 P A
61060 P T
61060 T A
61060 T T
61060 IS [AT]
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61072 T C
61072 IS [AC]
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61073 P G
61073 P C
61073 T G
61073 T C
61073 IS [GC]
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61078 P C
61078 T G
61078 T C
61078 IS [GC]
61079 I
61079 P C
61079 P G
61079 T C
61079 T G
61079 IS [CG]
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61084 T C
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61087 T T
61087 T A
61087 IS [TA]
61088 I
61088 P T
61088 P C
61088 T T
61088 T C
61088 IS [TC]
61089 I
61089 P C

FIGURE 129D

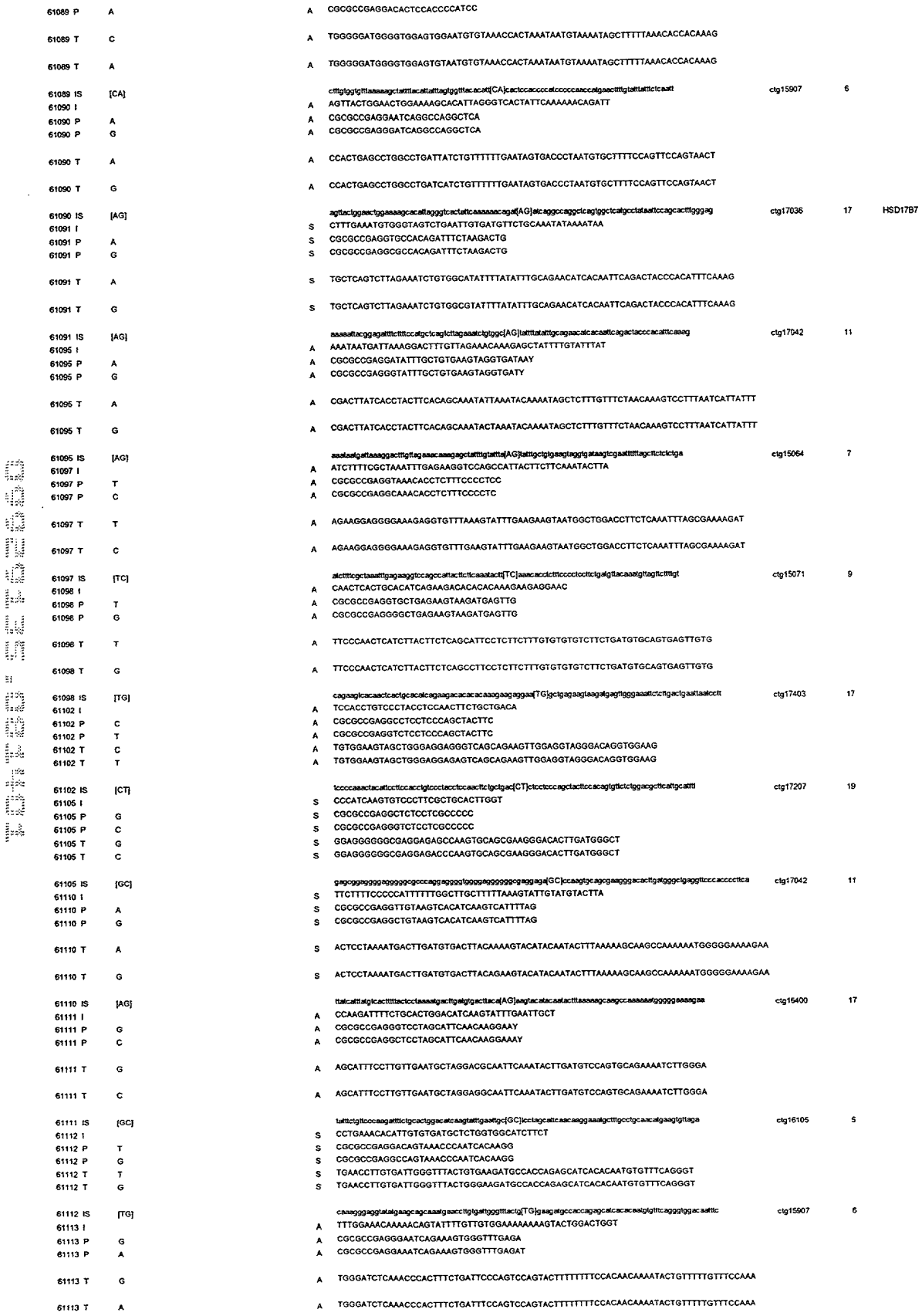

61089 P A A CGCGCCGAGGACACTCCACCCCATCC
61089 T C A TGGGGGATGGGGTGGAGTGGAATGTGTAAACCACTAAATAATGTAAAATAGCTTTTTAAACACCACAAAG
61089 T A A TGGGGGATGGGGTGGAGTGTAATGTGTAAACCACTAAATAATGTAAAATAGCTTTTTAAACACCACAAAG
61089 IS [CA] ctttgtggtgtttaaaaagctatttacatatatttagtggtttacacatt[CA]cactccaccccatccccccaaccatgaacttttgtatttatttctcaatt ctg15907 6
61090 I A AGTTACTGGAACTGGAAAAGCACATTAGGGTCACTATTCAAAAAACAGATT
61090 P A A CGCGCCGAGGAATCAGGCCAGGCTCA
61090 P G A CGCGCCGAGGGATCAGGCCAGGCTCA
61090 T A A CCACTGAGCCTGGCCTGATTATCTGTTTTTTGAATAGTGACCCTAATGTGCTTTTCCAGTTCCAGTAACT
61090 T G A CCACTGAGCCTGGCCTGATCATCTGTTTTTTGAATAGTGACCCTAATGTGCTTTTCCAGTTCCAGTAACT
61090 IS [AG] agttacIggaactggaaaagcacatlagggtcactattcaaaaaacagat[AG]atcaggccaggctcagtggctcatgcctataatccagcacttgggag ctg17036 17 HSD17B7
61091 I S CTTTGAAATGTGGGTAGTCTGAATTGTGATGTTCTGCAAATATAAAATAA
61091 P A S CGCGCCGAGGTGCCACAGATTTCTAAGACTG
61091 P G S CGCGCCGAGGCGCCACAGATTTCTAAGACTG
61091 T A S TGCTCAGTCTTAGAAATCTGTGGCATATTTTATATTTGCAGAACATCACAATTCAGACTACCCACATTTCAAAG
61091 T G S TGCTCAGTCTTAGAAATCTGTGGCGTATTTTATATTTGCAGAACATCACAATTCAGACTACCCACATTTCAAAG
61091 IS [AG] aaaaattacggagatttictttccatgctcagtcttagaaatctgtggc[AG]tatttatattgcagaacatcacaattcagactacccacatttcaaag ctg17042 11
61095 I A AAATAATGATTAAAGGACTTTGTTAGAAACAAAGAGCTATTTTGTATTTAT
61095 P A A CGCGCCGAGGATATTTGCTGTGAAGTAGGTGATAAY
61095 P G A CGCGCCGAGGGTATTTGCTGTGAAGTAGGTGATY
61095 T A A CGACTTATCACCTACTTCACAGCAAATATTAAATACAAAATAGCTCTTTGTTTCTAACAAAGTCCTTTAATCATTATTT
61095 T G A CGACTTATCACCTACTTCACAGCAAATACTAAATACAAAATAGCTCTTTGTTTCTAACAAAGTCCTTTAATCATTATTT
61095 IS [AG] aaalaatgattaaaggacttgttagaacaaagagctatttigtatttaj[AG]attgctgtgaagtaggtgataagtcgaatttttagcttctctctga ctg15064 7
61097 I A ATCTTTTCGCTAAATTTGAGAAGGTCCAGCCATTACTTCTTCAAATACTTA
61097 P T A CGCGCCGAGGTAAACACCTCTTTCCCCTCC
61097 P C A CGCGCCGAGGCAAACACCTCTTTCCCCTC
61097 T T A AGAAGGAGGGGAAAAGAGGTGTTTAAAGTATTTGAAGAAGTAATGGCTGGACCTTCTCAAATTTAGCGAAAAGAT
61097 T C A AGAAGGAGGGGAAAAGAGGTGTTTGAAGTATTTGAAGAAGTAATGGCTGGACCTTCTCAAATTTAGCGAAAAGAT
61097 IS [TC] atctttlcgctaaatttgagaaggtccagccattacttcttcaaatactt[TC]aaacacctctttcccctcottctgatgttacaaatgttagttcttttgt ctg15071 9
61098 I A CAACTCACTGCACATCAGAAGACACACACAAAGAAGAGGAAC
61098 P T A CGCGCCGAGGTGCTGAGAAGTAAGATGAGTTG
61098 P G A CGCGCCGAGGGGCTGAGAAGTAAGATGAGTTG
61098 T T A TTCCCAACTCATCTTACTTCTCAGCATTCCTCTTCTTTGTGTGTGTCTTCTGATGTGCAGTGAGTTGTG
61098 T G A TTCCCAACTCATCTTACTTCTCAGCCTTCCTCTTCTTTGTGTGTGTCTTCTGATGTGCAGTGAGTTGTG
61098 IS [TG] cagaagtcacaactcactgcacatcagaagacacacacaaagaagaggaa[TG]gctgagaagtaagatgagttgggaaatictctlgactgaattaatcctt ctg17403 17
61102 I A TCCACCTGTCCCTACCTCCAACTTCTGCTGACA
61102 P C A CGCGCCGAGGCCTCCTCCCAGCTACTTC
61102 P T A CGCGCCGAGGTCTCCTCCCAGCTACTTC
61102 T C A TGTGGAAGTAGCTGGGAGGAGGGTCAGCAGAAGTTGGAGGTAGGGACAGGTGGAAG
61102 T T A TGTGGAAGTAGCTGGGAGGAGAGTCAGCAGAAGTTGGAGGTAGGGACAGGTGGAAG
61102 IS [CT] tcccaaactacaatcctccacctgtcccacctccaacttctgctgac[CT]ctcctcccagctactccacagtgttctctggacgcttcattgcatttl ctg17207 19
61105 I S CCCATCAAGTGTCCCTTCGCTGCACTTGGT
61105 P G S CGCGCCGAGGCTCTCCTCGCCCCC
61105 P C S CGCGCCGAGGGTCTCCTCGCCCCC
61105 T G S GGAGGGGGGCGAGGAGAGCCAAGTGCAGCGAAGGGACACTTGATGGGCT
61105 T C S GGAGGGGGGCGAGGAGACCCAAGTGCAGCGAAGGGACACTTGATGGGCT
61105 IS [GC] gagcggagggagggggcgcccaggagggtgggggaggggggcgaggagal[GC]ccaagtgcagcgaagggacacttgatgggctgaggttcccaccccttca ctg17042 11
61110 I S TTCTTTTCCCCCATTTTTTGGCTTGCTTTTAAAGTATTGTATGTACTTA
61110 P A S CGCGCCGAGGTTGTAAGTCACATCAAGTCATTTTAG
61110 P G S CGCGCCGAGGCTGTAAGTCACATCAAGTCATTTTAG
61110 T A S ACTCCTAAAATGACTTGATGTGACTTACAAAAGTACATACAATACTTTAAAAAGCAAGCCAAAAAATGGGGGAAAAGAA
61110 T G S ACTCCTAAAATGACTTGATGTGACTTACAGAAGTACATACAATACTTTAAAAAGCAAGCCAAAAAATGGGGGAAAAGAA
61110 IS [AG] ttalcatttatgtcacttttlactcctaaaatgacttgatgtgacttacal[AG]aagtacatacaatacttttaaaaagcaagccaaaaaatgggggaaaagaa ctg16400 17
61111 I A CCAAGATTTTCTGCACTGGACATCAAGTATTTGAATTGCT
61111 P G A CGCGCCGAGGGTCCTAGCATTCAACAAGGAAY
61111 P C A CGCGCCGAGGCTCCTAGCATTCAACAAGGAAAY
61111 T G A AGCATTTCCTTGTTGAATGCTAGGACGCAATTCAAATACTTGATGTCCAGTGCAGAAAATCTTGGGA
61111 T C A AGCATTTCCTTGTTGAATGCTAGGAGGCAATTCAAATACTTGATGTCCAGTGCAGAAAATCTTGGGA
61111 IS [GC] tatttctgttcccaagatttictgcactggacatcaagtatttgaattgc[GC]ccctagcattcaacaaggaaalgcttgcctgcaacatgaagtgttaga ctg16105 5
61112 I S CCTGAAACACATTGTGTGATGCTCTGGTGGCATCTTCT
61112 P T S CGCGCCGAGGACAGTAAACCCAATCACAAGG
61112 P G S CGCGCCGAGGCCAGTAAACCCAATCACAAGG
61112 T T S TGAACCTTGTGATTGGGTTTACTGTGAAGATGCCACCAGAGCATCACACAATGTGTTTCAGGGT
61112 T G S TGAACCTTGTGATTGGGTTTACTGGGAAGATGCCACCAGAGCATCACACAATGTGTTTCAGGGT
61112 IS [TG] caaagggaggtatatgaagcagcaaatgaacctgtgatgggtttactg[TG]gaagatgccaccagagcatcacacaatgtgtttcagggtggacaatttc ctg15907 6
61113 I A TTTGGAAACAAAAACAGTATTTTGTTGTGGAAAAAAAAGTACTGGACTGGT
61113 P G A CGCGCCGAGGGAATCAGAAAGTGGGTTTGAGA
61113 P A A CGCGCCGAGGAAATCAGAAAGTGGGTTTGAGAT
61113 T G A TGGGATCTCAAACCCACTTTCTGATTCCCAGTCCAGTACTTTTTTTTCCACAACAAAATACTGTTTTTGTTTCCAAA
61113 T A A TGGGATCTCAAACCCACTTTCTGATTTCCAGTCCAGTACTTTTTTTTCCACAACAAAATACTGTTTTTGTTTCCAAA

FIGURE 129D

61113 IS	[GA]		ttggaaccaaaaacagtatttgtgtggaaaaaaaagtactggactgg[GA]aatcagaaagtgggttgagatcccaatctgtcacttattatggaaca	ctg22fin4	22
61115 I		A	GTCTGTCTGGCAACTTAGACAGCAACAGCTTTACAAGCT		
61115 P	A	A	CGCGCCGAGGAGATTCAAGTATCTGTGCTCC		
61115 P	C	A	CGCGCCGAGGCGATTCAAGTATCTGTGCTCC		
61115 T	A	A	CATGGGAGCACAGATACTTGAATCTGCTTGTAAAGCTGTTGCTGTCTAAGTTGCCAGACAGACAA		
61115 T	C	A	CATGGGAGCACAGATACTTGAATCGGCTTGTAAAGCTGTTGCTGTCTAAGTTGCCAGACAGACAA		
61115 IS	[AC]		ctgctcatgctgtctgtcggcaacttagacagcaacagcttacaagc[AC]gatcaagtatctgtgctcccatgaagcatttccacctcccttgcccaca	ctg19247	7
61118 I		A	GGCAGGTTGCTTCATGATCATTGCCCAGT		
61118 P	G	A	CGCGCCGAGGGACTAAACATTTTTCAAGATGGATTTTG		
61118 P	A	A	CGCGCCGAGGAACTAAACATTTTTCAAGATGGATTTTG		
61118 T	G	A	AAAACAAAATCCATCTTGAAAAATGTTTAGTCCTGGGCAATGATCATGAAGCAACCTGCCTT		
61118 T	A	A	AAAACAAAATCCATCTTGAAAAATGTTTAGTTCTGGGCAATGATCATGAAGCAACCTGCCTT		
61118 IS	[GA]		atttcttcacattcttcttaaaggcaggttgcttcatgatcattgcccag[GA]actaaacattttcaagatggattttgtttacttaaaagaatcatca	ctg16114	X
61119 I		S	TGATTGAGTTGGTGTGAAAATCAGAACCTTCTGAGATGCTTTTCTTCACT		
61119 P	T	S	CGCGCCGAGGATGACGATGCCTCACATC		
61119 P	C	S	CGCGCCGAGGGTGACGATGCCTCACATC		
61119 T	T	S	AATGGATGTGAGGCATCGTCATGTGAAGAAAAGCATCTCAGAAGGTTCTGATTTTCACACCAACTCAATCA		
61119 T	C	S	AATGGATGTGAGGCATCGTCACGTGAAGAAAAGCATCTCAGAAGGTTCTGATTTTCACACCAACTCAATCA		
61119 IS	[TC]		ggtactgagaagcccttaggaaaattggaatggatgtgaggcatcgtca[TC]gtgaagaaaagcatctcagaaggttctgattttcacaccaactcaatca	ctg13206	14
61120 I		S	CTTTGTCAAATGTTTAAATAAATATAGAACTAGAGTAATCTTACCACTTC		
61120 P	A	S	CGCGCCGAGGTCATAGTAATCCCTGTAAAGACTTAAC		
61120 P	C	S	CGCGCCGAGGGCATAGTAATCCCTGTAAAGACTTAA		
61120 T	A	S	TAAAGTTAAGTCTTTACAGGGATTACTATGAAAGTGGTAAGATTACTCTAGTTCTATATTTATTTAAACATTTGACAAAG		
61120 T	C	S	TAAAGTTAAGTCTTTACAGGGATTACTATGCAAGTGGTAAGATTACTCTAGTTCTATATTTATTTAAACATTTGACAAAG		
61120 IS	[AC]		tgaggtatiaatgttttataaagttaagtctttacagggatiactatg[AC]aagtggtaagattactctagttctatatttatttaaacatttgacaaag	ctg15842	19
61126 I		A	GTCCACGGACAAGCGGGTTGAGACAGCATAC		
61126 P	T	A	CGCGCCGAGGTTCCGTGCTGAATCTGAG		
61126 P	A	A	CGCGCCGAGGATCCGTGCTGAATCTGAG		
61126 T	T	A	TGCCCTCAGATTCAGCACGGAATATGCTGTCTCAACCCGCTTGTCCGTGGACAG		
61126 T	A	A	TGCCCTCAGATTCAGCACGGATTATGCTGTCTCAACCCGCTTGTCCGTGGACAG		
61126 IS	[TA]		cccaggagacagtcaaggctgtccacggacaagcgggttgagacagcata[TA]tccglgctgaatctgagggcataagaaattgctlgtgcttctcctat	ctg14007	17
61131 I		A	AAAGATCAAATTCATCTTCCTGAGTTGAGTTCATTAAAAGTCATGAGCTCA		
61131 P	T	A	CGCGCCGAGGTGGTCTTTGAAGACCTTCTCA		
61131 P	C	A	CGCGCCGAGGCGGTCTTTGAAGACCTTCTC		
61131 T	T	A	TTTTTGAGAAGGTCTTCAAAGACCAGAGCTCATGACTTTTAATGAACTCAACTCAGGAAGATGAATTTGATCTTT		
61131 T	C	A	TTTTTGAGAAGGTCTTCAAAGACCGGAGCTCATGACTTTTAATGAACTCAACTCAGGAAGATGAATTTGATCTTT		
61131 IS	[TC]		aaagatcaaattcatcttcctgagttgagttcattaaaagtcatgagctc[TC]ggtcttgaagaccttctcaaaaagaagctcccaaaagtctgggggcaag	ctg15422	X
61146 I		S	CTGGGAGAGGCACTGCAGGTACAGGGAA		
61146 P	A	S	CGCGCCGAGGTGGTGAGCTGTGAGACT		
61146 P	G	S	CGCGCCGAGGCGGTGAGCTGTGAGACT		
61146 T	A	S	GAGCAGTCTCACAGCTCACCATCCCTGTACCTGCAGTGCCTCTCCCAGAA		
61146 T	G	S	GAGCAGTCTCACAGCTCACCGTCCCTGTACCTGCAGTGCCTCTCCCAGAA		
61146 IS	[AG]		GAAGAATGTGGATTCAAGGCTCAGAAGCGAGGGCTGTGCACAGTTCACCGAGAAGCTGACTTCTTCTGGAGCCTGTG TACTGCGGACATGTCCCTGCTGGAGCAGTCTCACAGCTCACC[AG]TCCCTGTACCTGCAGTGCCTCTCCCAGAAACT GAGACAAGAAAGGTGAGCCCCCAGGAGGTGGTCAGTTCCGGACCACCTGCT	ctg19247	7
11936 I		S	CGCCTCACGAGGTAACCGCCACACA		
11936 P	G	S	ATGACGTGGCAGACCGCTTCCAAGCCACY		
11936 P	A	S	CGCGCCGAGGTGCTTCCAAGCCACCY		
11936 T	G	S	GGAGGGTGGCTTGGAAGCGGTGTGGCGGTTACCTCGTGAGGCGCA		
11936 T	A	S	GGAGGGTGGCTTGGAAGCAGTGTGGCGGTTACCTCGTGAGGCGCA		
11936 IS	[GA]		GCACGGAAGCAGCTGGATAAAGAACAGGTGAGTGGTTCCTGGGGAGGGTGGCTTGGAAGC[GA]GTGTGGCGGTTAC CTCGTGAGGCGCAGGGTGCCGGAACCCGAGTGCGTGCTCGGCGGACT	ctg13010	2
18983 I		A	GCCTTCTCCCTGGTGTGTTGGAGCTCCT		
18983 P	G	A	ATGACGTGGCAGACGTGGGGCCAGCTATY		
18983 P	A	A	CGCGCCGAGGATGGGGCCAGCTATGY		
18983 T	G	A	GAGCCATAGCTGGCCCCACGGAGCTCCAACACACCAGGGAGAAGGCAT		
18983 T	A	A	GAGCCATAGCTGGCCCCATGGAGCTCCAACACACCAGGGAGAAGGCAT		
18983 IS	[GA]		ATCCACAAACATTCTCTGAGCATCTCTGGGAATGCCTTCTCCCTGGTGTGTTGGAGCTCC[GA]TGGGGCCAGCTATG GCTCTAGTTGTATCATGCTGGCCTCCAGAGCACACTGTTCCTCCCT	ctg25191	18
19378 I		S	ATCCACCTTAGGGCCTGGGCTGTGTA		
19378 P	G	S	ATGACGTGGCAGACCATTTCACCACTTATGGAAATGY		
19378 P	A	S	CGCGCCGAGGTATTTCACCACTTATGGAAATGAY		
19378 T	G	S	ATTTTCATTTCCATAAGTGGTGAAATGACACAGCCCAGGCCCTAAGGTGGATGA		
19378 T	A	S	ATTTTCATTTCCATAAGTGGTGAAATAACACAGCCCAGGCCCTAAGGTGGATGA		
19378 IS	[GA]		GGCCACTGTGCAGCAGTAATAGTTGGTTTGGTACATTTTCATTTCCATAAGTGGTGAAAT[GA]ACACAGCCCAGGCCC TAAGGTGGATGAAGAACACAGCATATTTGTGCATGAGATCCAGGA	ctg3454	17
20736 I		A	AGAGTGAGGATGGAAATGCCAAGGAGAGGAGGA		
20736 P	T	A	CGCGCCGAGGTGATGCCTGCCCAAY		
20736 P	C	A	ATGACGTGGCAGACCGATGCCTGCCCAY		
20736 T	T	A	TTCTTTGGGCAGGCATCACCTCCTCTCCTTGGCATTTCCATCCTCACTCTCC		
20736 T	C	A	TTCTTTGGGCAGGCATCGCCTCCTCTCCTTGGCATTTCCATCCTCACTCTCC		
20736 IS	[TC]		GAGACACACACTGAGTAATACTGCAGGGAGAGTGAGGATGGAAATGCCAAGGAGAGGAGG[TC]GATGCCTGCCCAAA GAACTTTGTCCTTCCCAGGCTTCTCATGCCACCTACTGCCTGTATC	ctg17403	17
23966 I		S	GGGGAAGGTGAGGGGCCCTGACCA		
23966 P	A	S	CGCGCCGAGGTCCAAGCCTCAGCCY		
23966 P	G	S	ATGACGTGGCAGACCCCAAGCCTCAGCCY		
23966 T	A	S	TCAGGGCTGAGGCTTGGAGGTCAGGGCCCCTCACCTTCCCCTC		
23966 T	G	S	TCAGGGCTGAGGCTTGGGGGTCAGGGCCCCTCACCTTCCCCTC		
23966 IS	[AG]		GTCTTCTCAGGGAAAGCAGAAGTCCTGGAGCCCTTCAGCCGGGTCAGGGCTGAGGCTTGG[AG]GGTCAGGGCCCCT CACCTTCCCCTCCTTTCCCAGAGCCGTCTTCCCAGCCCACCATCCCC	ctg17036	17
23999 I		A	GTCGGCAGCTGCCCCCATGGAA		
23999 P	T	A	CGCGCCGAGGTAAGCATTCCAAGTAGTCGY		
23999 P	C	A	ATGACGTGGCAGACCAAGCATTCCAAGTAGTCGY		
23999 T	T	A	CACCCGACTACTTGGAATGCTTATCCATGGGGGCAGCTGCCGACAG		
23999 T	C	A	CACCCGACTACTTGGAATGCTTGTCCATGGGGGCAGCTGCCGACAG		

FIGURE 129D

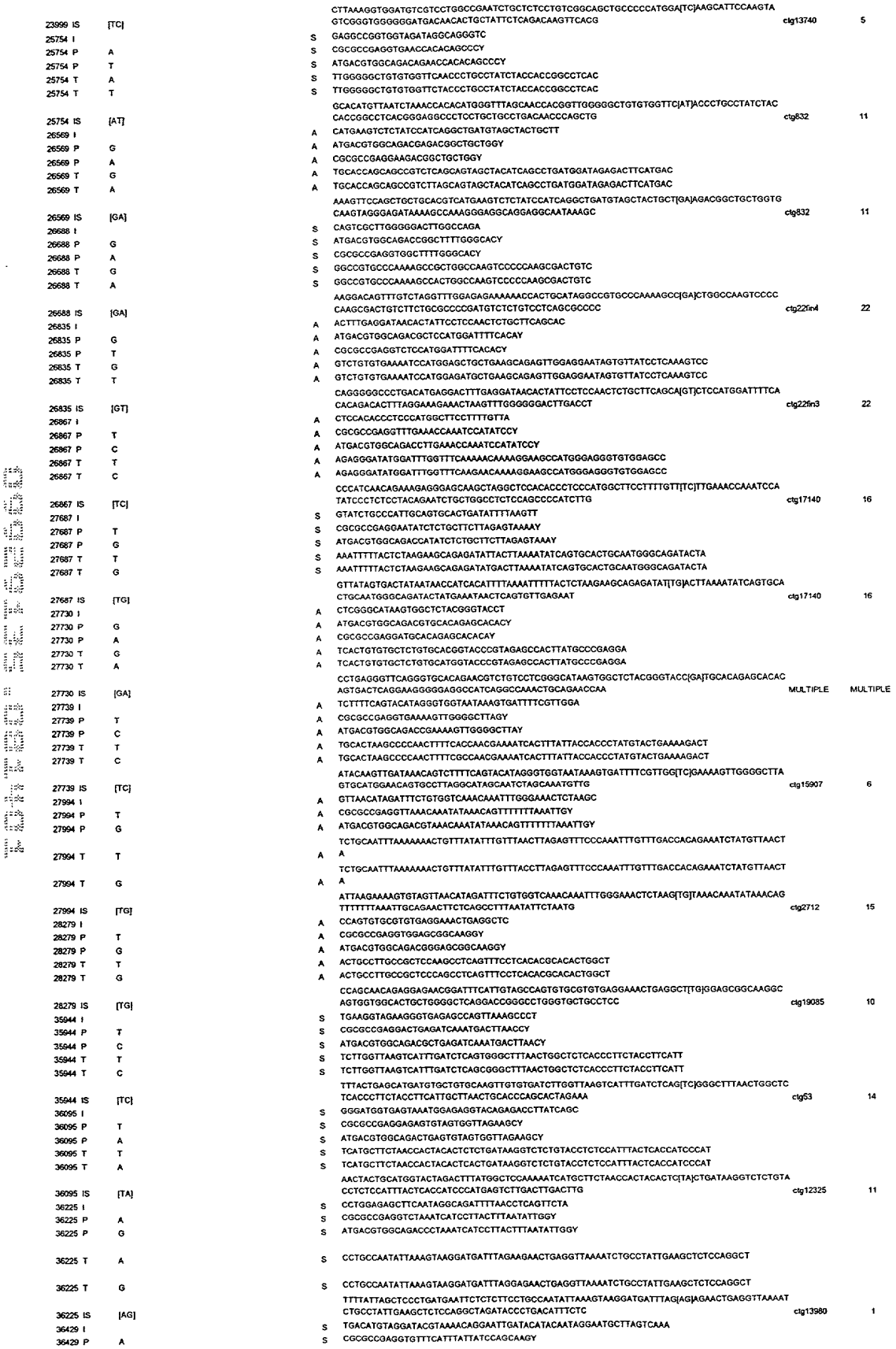


FIGURE 129D

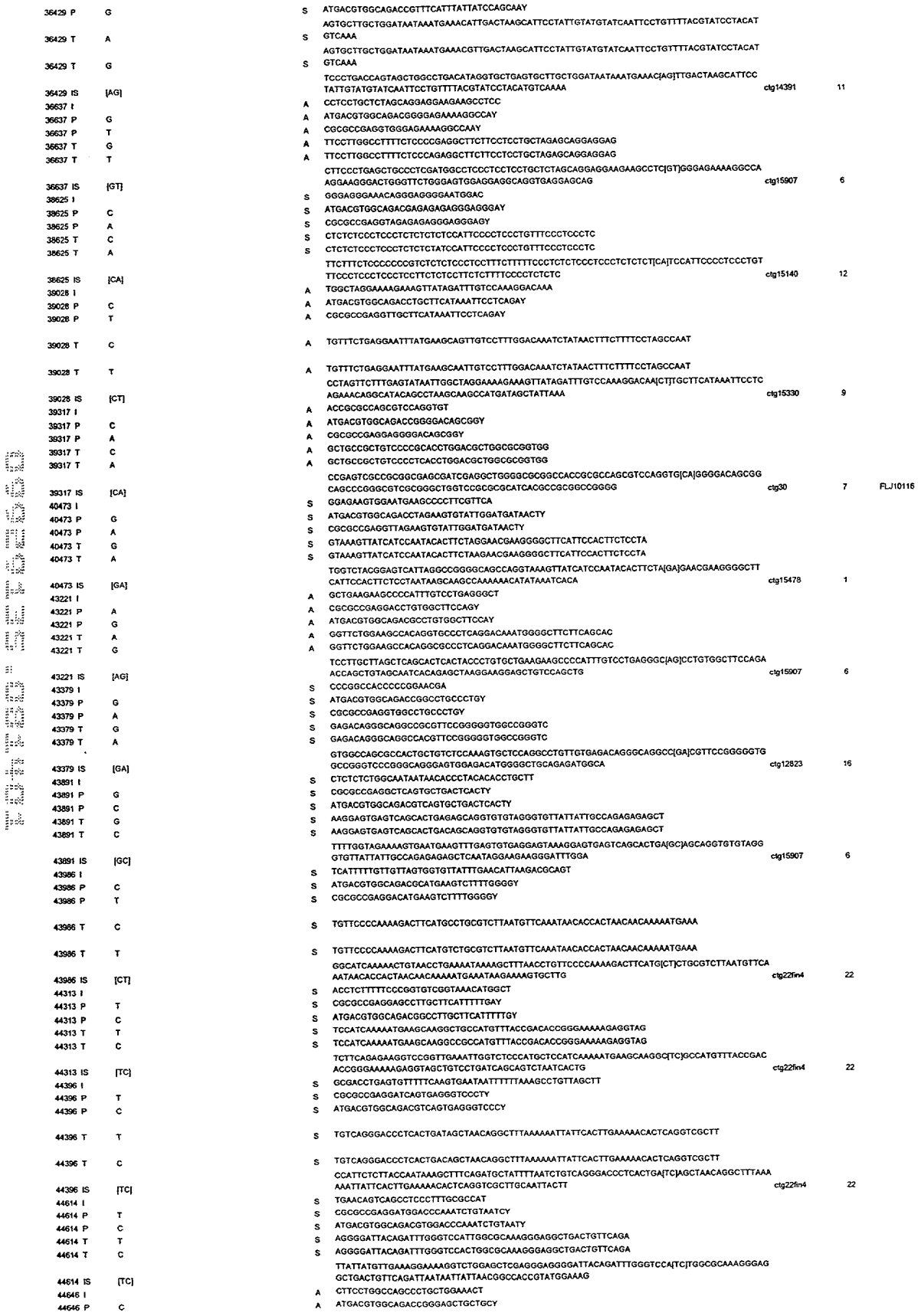

36429 P G S ATGACGTGGCAGACCGTTTCATTTATTATCCAGCAAY
AGTGCTTGCTGGATAATAAATGAAACATTGACTAAGCATTCCTATTGTATGTATCAATTCCTGTTTTACGTATCCTACAT
36429 T A S GTCAAA
AGTGCTTGCTGGATAATAAATGAAACGTTGACTAAGCATTCCTATTGTATGTATCAATTCCTGTTTTACGTATCCTACAT
36429 T G S GTCAAA
TCCCTGACCAGTAGCTGGCCTGACATAGGTGCTGAGTGCTTGCTGGATAATAAATGAAAC[AG]TTGACTAAGCATTCC
36429 IS [AG] TATTGTATGTATCAATTCCTGTTTTACGTATCCTACATGTCAAAA ctg14391 11
36637 I A CCTCCTGCTCTAGCAGGAGGAAGAAGCCTCC
36637 P G A ATGACGTGGCAGACGGGGAGAAAAGGCCAY
36637 P T A CGCGCCGAGGTGGGAGAAAAGGCCAAY
36637 T G A TTCCTTGGCCTTTTCTCCCCGAGGCTTCTTCCTCCTGCTAGAGCAGGAGGAG
36637 T T A TTCCTTGGCCTTTTCTCCCAGAGGCTTCTTCCTCCTGCTAGAGCAGGAGGAG
36637 IS [GT] CTTCCCTGAGCTGCCCTCGATGGCCTCCCTCCTCCTGCTCTAGCAGGAGGAAGAAGCCTC[GT]GGGAGAAAAGGCCA AGGAAGGGACTGGGTTCTGGGAGTGGAGGAGGCAGGTGAGGAGCAG ctg15907 6
38625 I S GGGAGGGAAACAGGGAGGGGAATGGAC
38625 P C S ATGACGTGGCAGACGAGAGAGAGGGAGGGAY
38625 P A S CGCGCCGAGGTAGAGAGAGGGAGGGAGY
38625 T C S CTCTCTCCCTCCCTCTCTCTCCATTCCCCTCCCTGTTTCCCTCCCTC
38625 T A S CTCTCTCCCTCCCTCTCTCTATCCATTCCCCTCCCTGTTTCCCTCCCTC
38625 IS [CA] TTCTTTCTCCCCCCCGTCTCTCTCCCTCCTTTCTTTTTCCCTCTCTCCCTCCCTCTCTCT[CA]TCCATTCCCCTCCCTGT TTCCCTCCCTCCCTCCTTCTCTCCTTCTCTTTTCCCCTCTCTC ctg15140 12
39028 I A TGGCTAGGAAAAGAAAGTTATAGATTTGTCCAAAGGACAAA
39028 P C A ATGACGTGGCAGACCTGCTTCATAAATTCCTCAGAY
39028 P T A CGCGCCGAGGTTGCTTCATAAATTCCTCAGAY
39028 T C A TGTTTCTGAGGAATTTATGAAGCAGTTGTCCTTTGGACAAATCTATAACTTTCTTTTCCTAGCCAAT
39028 T T A TGTTTCTGAGGAATTTATGAAGCAATTGTCCTTTGGACAAATCTATAACTTTCTTTTCCTAGCCAAT
39028 IS [CT] CCTAGTTCTTTGAGTATAATTGGCTAGGAAAAGAAAGTTATAGATTTGTCCAAAGGACAA[CT]TGCTTCATAAATTCCTC AGAAACAGGCATACAGCCTAAGCAAGCCATGATAGCTATTAAA ctg15330 9
39317 I A ACCGCGCCAGCGTCCAGGTGT
39317 P C A ATGACGTGGCAGACCGGGGACAGCGGY
39317 P A A CGCGCCGAGGAGGGGACAGCGGY
39317 T C A GCTGCCGCTGTCCCCGCACCTGGACGCTGGCGCGGTGG
39317 T A A GCTGCCGCTGTCCCCTCACCTGGACGCTGGCGCGGTGG
39317 IS [CA] CCGAGTCGCCGCGGCGAGCGATCGAGGCTGGGGCGCGGCCACCGCGCCAGCGTCCAGGTG[CA]GGGGACAGCGG CAGCCCGGGCGTCGCGGGCTGGTCCGCGCGCATCACGCCGCGGCCGGGG ctg30 7 FLJ10116
40473 I S GGAGAAGTGGAATGAAGCCCCTTCGTTCA
40473 P G S ATGACGTGGCAGACCTAGAAGTGTATTGGATGATAACTY
40473 P A S CGCGCCGAGGTTAGAAGTGTATTGGATGATAACTY
40473 T G S GTAAAGTTATCATCCAATACACTTCTAGGAACGAAGGGGCTTCATTCCACTTCTCCTA
40473 T A S GTAAAGTTATCATCCAATACACTTCTAAGAACGAAGGGGCTTCATTCCACTTCTCCTA
40473 IS [GA] TGGTCTACGGAGTCATTAGGCCGGGGCAGCCAGGTAAAGTTATCATCCAATACACTTCTA[GA]GAACGAAGGGGCTT CATTCCACTTCTCCTAATAAGCAAGCCAAAAAACATATAAATCACA ctg15478 1
43221 I A GCTGAAGAAGCCCCATTTGTCCTGAGGGCT
43221 P A A CGCGCCGAGGACCTGTGGCTTCCAGY
43221 P G A ATGACGTGGCAGACGCCTGTGGCTTCCAY
43221 T A A GGTTCTGGAAGCCACAGGTGCCCTCAGGACAAATGGGGCTTCTTCAGCAC
43221 T G A GGTTCTGGAAGCCACAGGCGCCCTCAGGACAAATGGGGCTTCTTCAGCAC
43221 IS [AG] TCCTTGCTTAGCTCAGCACTCACTACCCTGTGCTGAAGAAGCCCCATTTGTCCTGAGGGC[AG]CCTGTGGCTTCCAGA ACCAGCTGTAGCAATCACAGAGCTAAGGAAGGAGCTGTCCAGCTG ctg15907 6
43379 I S CCCGGCCACCCCCGGAACGA
43379 P G S ATGACGTGGCAGACCGGCCTGCCCTGY
43379 P A S CGCGCCGAGGTGGCCTGCCCTGY
43379 T G S GAGACAGGGCAGGCCGCGTTCCGGGGGTGGCCGGGTC
43379 T A S GAGACAGGGCAGGCCACGTTCCGGGGGTGGCCGGGTC
43379 IS [GA] GTGGCCAGCGCCACTGCTGTCTCCAAAGTGCTCCAGGCCTGTTGTGAGACAGGGCAGGCC[GA]CGTTCCGGGGGTG GCCGGGTCCCGGGCAGGGAGTGGAGACATGGGGCTGCAGAGATGGCA ctg12823 16
43891 I S CTCTCTCTGGCAATAATAACACCCTACACACCTGCTT
43891 P G S CGCGCCGAGGCTCAGTGCTGACTCACTY
43891 P C S ATGACGTGGCAGACGTCAGTGCTGACTCACTY
43891 T G S AAGGAGTGAGTCAGCACTGAGAGCAGGTGTGTAGGGTGTTATTATTGCCAGAGAGAGCT
43891 T C S AAGGAGTGAGTCAGCACTGACAGCAGGTGTGTAGGGTGTTATTATTGCCAGAGAGAGCT
43891 IS [GC] TTTTGGTAGAAAAGTGAATGAAGTTTGAGTGTGAGGAGTAAAGGAGTGAGTCAGCACTGA[GC]AGCAGGTGTGTAGG GTGTTATTATTGCCAGAGAGAGCTCAATAGGAAGAAGGGATTTGGA ctg15907 6
43986 I S TCATTTTTGTTGTTAGTGGTGTTATTTGAACATTAAGACGCAGT
43986 P C S ATGACGTGGCAGACGCATGAAGTCTTTTGGGGY
43986 P T S CGCGCCGAGGACATGAAGTCTTTTGGGGY
43986 T C S TGTTCCCCAAAAGACTTCATGCCTGCGTCTTAATGTTCAAATAACACCACTAACAACAAAAATGAAA
43986 T T S TGTTCCCCAAAAGACTTCATGTCTGCGTCTTAATGTTCAAATAACACCACTAACAACAAAAATGAAA
43986 IS [CT] GGCATCAAAAACTGTAACCTGAAAATAAAAGCTTTAACCTGTTCCCCAAAAGACTTCATG[CT]CTGCGTCTTAATGTTCA AATAACACCACTAACAACAAAAATGAAATAAGAAAAGTGCTTG ctg22fin4 22
44313 I S ACCTCTTTTTCCCGGTGTCGGTAAACATGGCT
44313 P T S CGCGCCGAGGAGCCTTGCTTCATTTTTGAY
44313 P C S ATGACGTGGCAGACGGCCTTGCTTCATTTTTGY
44313 T T S TCCATCAAAAATGAAGCAAGGCTGCCATGTTTACCGACACCGGGAAAAAGAGGTAG
44313 T C S TCCATCAAAAATGAAGCAAGGCCGCCATGTTTACCGACACCGGGAAAAAGAGGTAG
44313 IS [TC] TCTTCAGAGAAGGTCCGGTTGAAATTGGTCTCCCATGCTCCATCAAAAATGAAGCAAGGC[TC]GCCATGTTTACCGAC ACCGGGAAAAAAGAGGTAGCTGTCCTGATCAGCAGTCTAATCACTG ctg22fin4 22
44396 I S GCGACCTGAGTGTTTTTCAAGTGAATAATTTTTTAAAGCCTGTTAGCTT
44396 P T S CGCGCCGAGGATCAGTGAGGGTCCCTY
44396 P C S ATGACGTGGCAGACGTCAGTGAGGGTCCCY
44396 T T S TGTCAGGGACCCTCACTGATAGCTAACAGGCTTTAAAAAATTATTCACTTGAAAAACACTCAGGTCGCTT
44396 T C S TGTCAGGGACCCTCACTGACAGCTAACAGGCTTTAAAAAATTATTCACTTGAAAAACACTCAGGTCGCTT
44396 IS [TC] CCATTCTCTTACCAATAAAGCTTTCAGATGCTATTTTAATCTGTCAGGGACCCTCACTGA[TC]AGCTAACAGGCTTTAAA AAATTATTCACTTGAAAAACACTCAGGTCGCTTGCAATTACTT ctg22fin4 22
44614 I S TGAACAGTCAGCCTCCCTTTGCGCCAT
44614 P T S CGCGCCGAGGATGGACCCAAATCTGTAATCY
44614 P C S ATGACGTGGCAGACGTGGACCCAAATCTGTAATY
44614 T T S AGGGGATTACAGATTTGGGTCCATTGGCGCAAAGGGAGGCTGACTGTTCAGA
44614 T C S AGGGGATTACAGATTTGGGTCCACTGGCGCAAAGGGAGGCTGACTGTTCAGA
44614 IS [TC] TTATTATGTTGAAAGGAAAAGGTCTGGAGCTCGAGGGAGGGGATTACAGATTTGGGTCCA[TC]TGGCGCAAAGGGAG GCTGACTGTTCAGATTAATAATTATTAACGGCCACCGTATGGAAAG
44646 I A CTTCCTGGCCAGCCCTGCTGGAAACT
44646 P C A ATGACGTGGCAGACCGGGAGCTGCTGCY

FIGURE 129D

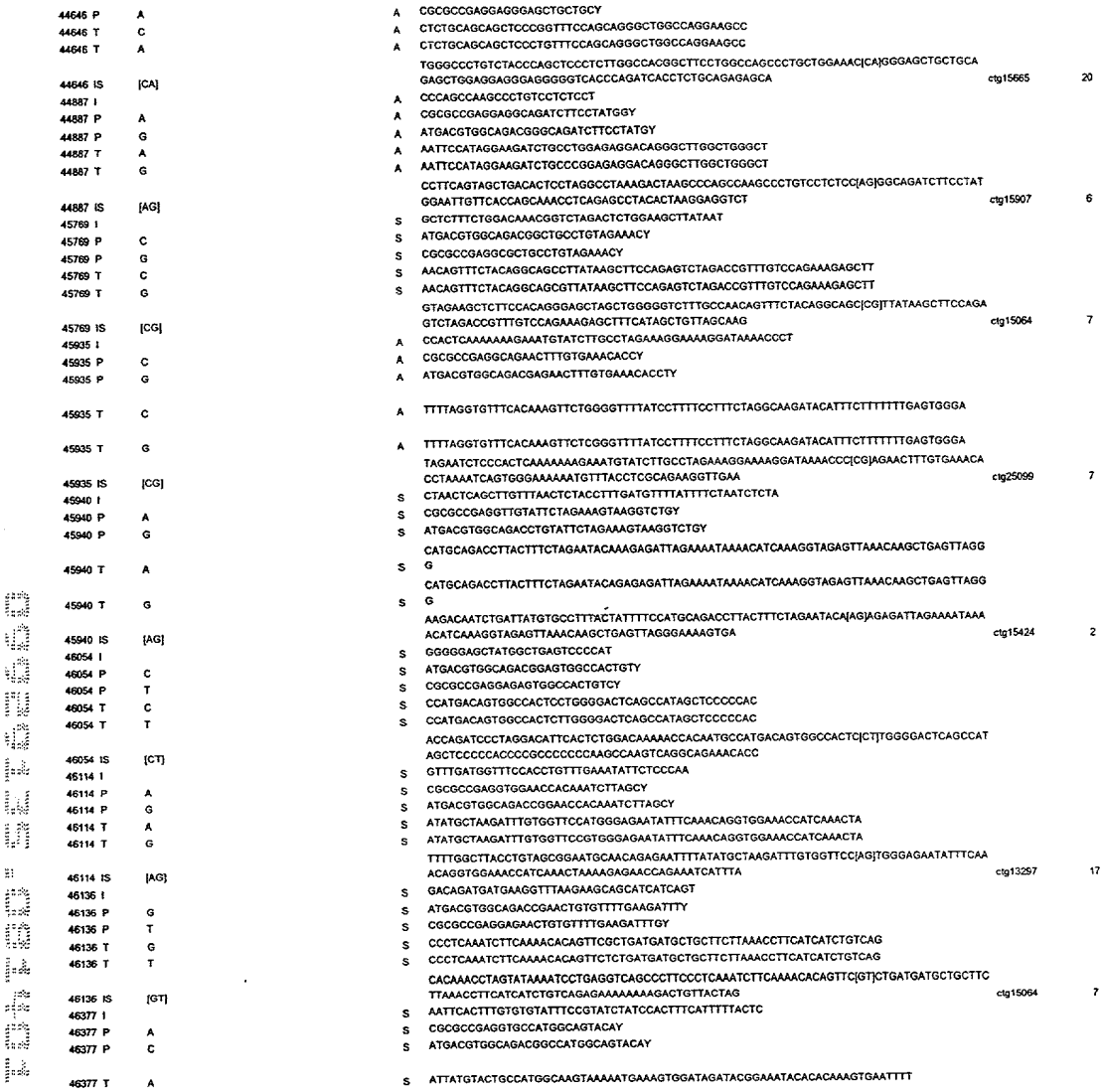


FIGURE 129D

49910 P	C	S	ATGACGTGGCAGACGGGAGGAGGCGCY				
49910 T	T	S	CCTGGCGCCTCCTCCTTCCATGTGGGTGTGCAGCATCCCGCT				
49910 T	C	S	CCTGGCGCCTCCTCCCTCCATGTGGGTGTGCAGCATCCCGCT				
49910 IS	[TC]		AGGTGCCCAGAGTTGCGGGCCTTGCACGCCTTGTACGCCTTGTTCCCTGGCGCCTCCTCC[TC]TCCATGTGGGTGTG CAGCATCCCGCTCCAGGGCCTTCAGCCTCTGCGCCCCTCATCTGCT	ctg13214	2		
50309 I		S	GGATCACAGGATACAAACTGAGAGAAGCCTTCCTTCCAA				
50309 P	G	S	ATGACGTGGCAGACCCCCACTAACCCCATY				
50309 P	A	S	CGCGCCGAGGTCCCACTAACCCCATCY				
50309 T	G	S	TCCGGATGGGGTTAGTGGGGTGGAAGGAAGGCTTCTCTCAGTTTGTATCCTGTGATCCAC				
50309 T	A	S	TCCGGATGGGGTTAGTGGGATGGAAGGAAGGCTTCTCTCAGTTTGTATCCTGTGATCCAC				
50309 IS	[GA]		TGCACTGGCCAGGAAAGACCCCAGTGGTGGAAACCAGGATGTCCGGATGGGGTTAGTGGG[GA]TGGAAGGAAGGCT TCTCTCAGTTTGTATCCTGTGATCCACTTCCTGCACCCCAGAGGGCA	ctg15649	2		
50652 I		S	CCTTGCAGAACTGGAGCTCCAAACAGACACCA				
50652 P	G	S	ATGACGTGGCAGACCGCACCCTCAATGCY				
50652 P	A	S	CGCGCCGAGGTGCACCCTCAATGCTY				
50652 T	G	S	AGGTAGCATTGAGGGTGCGGGTGTCTGTTTGGAGCTCCAGTTCTGCAAGGTC				
50652 T	A	S	AGGTAGCATTGAGGGTGCAGGTGTCTGTTTGGAGCTCCAGTTCTGCAAGGTC				
50652 IS	[GA]		GAAACCAGAGTAGGGCATGAATTTGCTCTGGATAATAAAATTAGGTAGCATTGAGGGTGC[GA]GGTGTCTGTTTGGAG CTCCAGTTCTGCAAGGTCTAGGAAAGCAAATCCAGCAGAAGACAG	ctg15649	2		
50797 I		A	GTGGGGTGGGAGCTGTGGTGAGCT				
50797 P	A	A	CGCGCCGAGGATGGACAGCGGCCY				
50797 P	G	A	ATGACGTGGCAGACGTGGACAGCGGCCY				
50797 T	A	A	GGCCGGCCGCTGTCCATGCTCACCACAGCTCCCACCCCACTC				
50797 T	G	A	GGCCGGCCGCTGTCCACGCTCACCACAGCTCCCACCCCACTC				
50797 IS	[AG]		GGCCGTCACCTCCCTGAGACCTCAGAAGGGCACAGGAGTGGGGTGGGAGCTGTGGTGAGC[AG]TGGACAGCGGCC GGCCCTCTTCTCCTGCCCTCTTGGCATCTTGGCGTCACCATCTGTGAA	ctg14508	3		
50898 I		S	ACTATGTTCACTGCACACCCACACACTGATGGAGT				
50898 P	C	S	ATGACGTGGCAGACGAGAATATAGACAAGGTCTCCY				
50898 P	T	S	CGCGCCGAGGAAGAATATAGACAAGGTCTCCTY				
50898 T	C	S	TGGAAGGAGACCTTGTCTATATTCTCCTCCATCAGTGTGTGGGTGTGCAGTGAACATAGTAG				
50898 T	T	S	TGGAAGGAGACCTTGTCTATATTCTTCTCCATCAGTGTGTGGGTGTGCAGTGAACATAGTAG				
50898 IS	[CT]		TTGACAAACTCACCTCCGCAGAGTGGTCCAACCAATGGAAGGAGACCTTGTCTATATTCT[CT]CTCCATCAGTGTGTG GGTGTGCAGTGAACATAGTAGTACATAGAAAGGGAGAGGAGACTT	ctg15144	12		
51118 I		S	GCCCCCAGAAGCTGCACCCCCT				
51118 P	C	S	ATGACGTGGCAGACGTTTCTCTGCCTTACCTGY				
51118 P	T	S	CGCGCCGAGGATTTCTCTGCCTTACCTGY				
51118 T	C	S	CAAGCAGGTAAGGCAGAGAAACGGGGGTGCAGCTTCTGGGGGCTC				
51118 T	T	S	CAAGCAGGTAAGGCAGAGAAATGGGGGTGCAGCTTCTGGGGGCTC				
51118 IS	[CT]		TGGGTCTTGGAGGGGACACATTCGAACCTCAGCCAGGTACAAGCAGGTAAGGCAGAGAAA[CT]GGGGGTGCAGCTT CTGGGGGCTCGAGAGCCTCAGAGGAGCTTTCCACACCTCAGTGCCCA	ctg14932	16		
51850 I		S	CAGAACATAAGCTGGCTTTTCCCGTCCCCTT				
51850 P	G	S	ATGACGTGGCAGACCCTCCTTTTGGACAGGAY				
51850 P	T	S	CGCGCCGAGGACTCCTTTTGGACAGGAY				
51850 T	G	S	GGACTCCTGTCCAAAAGGAGGAGGGGACGGGAAAAGCCAGCTTATGTTCTGTG				
51850 T	T	S	GGACTCCTGTCCAAAAGGAGTAGGGGACGGGAAAAGCCAGCTTATGTTCTGTG				
51850 IS	[GT]		GGAAGTGCCCTTTCCTAGTATGCTATTCCCTGGACAGCAGGGACTCCTGTCCAAAAGGAG[GT]AGGGGACGGGAAAA GCCAGCTTATGTTCTGTGCCTGTTGAGGAAAGACAGGAAGCACGGC	ctg14932	16		
52121 I		S	CTACATGTCCTGCCACCCCGGCAGT				
52121 P	C	S	ATGACGTGGCAGACGCACTGACTGCACTAAAY				
52121 P	T	S	CGCGCCGAGGACACTGACTGCACTAAACY				
52121 T	C	S	GTGTGTTTAGTGCAGTCAGTGCCTGCCGGGGTGGCAGGACATGTAGGT				
52121 T	T	S	GTGTGTTTAGTGCAGTCAGTGTCTGCCGGGGTGGCAGGACATGTAGGT				
52121 IS	[CT]		GCGGATGAGCTGCTTTCTCATGCGTGCTTGGCCATGCACGTGTGTTTAGTGCAGTCAGTG[CT]CTGCCGGGGTGGCA GGACATGTAGGTCACCCTACCTTGGGGATTCTTGTTATTAGCATAA	ctg15064	7		
52160 I		A	CCTGCGCCTGATGGACTGGACATGTTTGTC				
52160 P	T	A	CGCGCCGAGGTCCCATTGGTGATGGTY				
52160 P	A	A	ATGACGTGGCAGACACCCATTGGTGATGGTY				
52160 T	T	A	ACACACCATCACCAATGGGAACAAACATGTCCAGTCCATCAGGCGCAGGGT				
52160 T	A	A	ACACACCATCACCAATGGGTACAAACATGTCCAGTCCATCAGGCGCAGGGT				
52160 IS	[TA]		TCCGGGCCCTGGAACCAGCAGAAACACCCACCCTGCGCCTGATGGACTGGACATGTTTGT[TA]CCCATTGGTGATGG TGTGTTGGGAGGGAACTGTTTTAGAAACCAATGTAAATCTGTGTCT	ctg15064	7		
52280 I		S	GCCCCTGATGCAGTGCACAGCCTGT				
52280 P	C	S	ATGACGTGGCAGACGCTGAATGCCTATTTCCAY				
52280 P	G	S	CGCGCCGAGGCCTGAATGCCTATTTCCAY				
52280 T	C	S	CTGGTGGAAATAGGCATTCAGCCAGGCTGTGCACTGCATCAGGGGCTC				
52280 T	G	S	CTGGTGGAAATAGGCATTCAGGCAGGCTGTGCACTGCATCAGGGGCTC				
52280 IS	[CG]		GTGAAGAGCCGGCACGGGGAACTCTTCGATAGCCTCGGGCTGGTGGAAATAGGCATTCAG[CG]CAGGCTGTGCACT GCATCAGGGGCTCCGGACCTCCGAGAACCGCAGCGGGGGCTGGGACC	ctg15684	5	MGMT	
52316 I		S	TCAGGGGTGGAGTGTGGCTTAGCCACT				
52316 P	C	S	ATGACGTGGCAGACGGCACACCAAGGTTGY				
52316 P	T	S	CGCGCCGAGGAGCACACCAAGGTTGTY				
52316 T	C	S	TGTAACAACCTTGGTGTGCCGTGGCTAAGCCACACTCCACCCCTGACC				
52316 T	T	S	TGTAACAACCTTGGTGTGCTGTGGCTAAGCCACACTCCACCCCTGACC				
52316 IS	[CT]		CTTCCCTTCTCTCTGTCCTTCCCCCTTCCTTCCTTTACTGATGTAACAACCTTGGTGTGC[CT]GTGGCTAAGCCACACT CCACCCCTGACCTGCGGGGGGATGAGTCAAACGGTCAGACTTGCC	ctg15174	19		
52501 I		S	TCAGCAGCGGCAAGCGATCGGGT				
52501 P	C	S	ATGACGTGGCAGACGTGGGTGATATGAATGCTCY				
52501 P	G	S	CGCGCCGAGGCTGGGTGATATGAATGCTCY				
52501 T	C	S	AAGGGAGCATTCATATCACCCACCCCGATCGCTTGCCGCTGCTGACC				
52501 T	G	S	AAGGGAGCATTCATATCACCCAGCCCGATCGCTTGCCGCTGCTGACC				
52501 IS	[CG]		ACAGGTGAACAAAATGTGAAAACATGGGTTTATGTTACAAGGGAGCATTCATATCACCCA[CG]CCCGATCGCTTGCCG CTGCTGACCCTCTCCAATTTCCAGCTTCGATATTCTCCCAAAGCC	ctg17263	16		
52702 I		S	CAGCAGAGGCGCAGGGCGCC				
52702 P	T	S	CGCGCCGAGGATGCCAGCCAGCCY				
52702 P	A	S	ATGACGTGGCAGACTTGCCAGCCAGCCY				
52702 T	T	S	TCCTGGCTGGCTGGCATGCGCCCTGCGCCTCTGCTGGG				
52702 T	A	S	TCCTGGCTGGCTGGCAAGCGCCCTGCGCCTCTGCTGGG				
52702 IS	[TA]		TTCACCTGCGCATCTGCAGCTGGTATGCGGCTGCCCTGGTGGGTTCCTGGCTGGCTGGCA[TA]GCGCCCTGCGCCT CTGCTGGGCCTGGTGGGGCCTAAGGGTGAAAACTCGGTCAAGATAAG	ctg18037	7		
61156 I		A	TGACAGGAATGCCTGGCCCTGGGAT				
61156 P	G	A	ATGACGTGGCAGACGGCCCTAGGTGATGTTY				
61156 P	C	A	CGCGCCGAGGCGCCCTAGGTGATGTY				
61156 T	G	A	ACAAAACATCACCTAGGGCCTCCCAGGGCCAGGCATTCCTGTCACT				
61156 T	C	A	ACAAAACATCACCTAGGGCGTCCCAGGGCCAGGCATTCCTGTCACT				
61156 IS	[GC]		GACACTCCAAGGGCAATGGCGGACACAGTGGCTTAGTGACAGGAATGCCTGGCCCTGGGA[GC]GCCCTAGGTGATG TTTTGTGACCCTGGATGGCCCTGGGTGACTGTAGGTGATGCTGGGCG	ctg15128	17		
61316 I		S	GGACCGCGGTAGCGGCCAGGC				
61316 P	A	S	CGCGCCGAGGTATTCTACGGTCAAGACAACY				
61316 P	C	S	ATGACGTGGCAGACGATTCTACGGTCAAGACAACY				

FIGURE 129D

61316 T	A	S	CCAAGTTGTCTTGACCGTAGAATACCTGGCCGCTACCGCGGTCCAG				
61316 T	C	S	CCAAGTTGTCTTGACCGTAGAATCCCTGGCCGCTACCGCGGTCCAG				
61316 IS	[AC]		TCCTCTCTGTCGGGTTCTGGTGGTCGACCGGCCACCCCCAAGTTGTCTTGACCGTAGAAT[AC]CCTGGCCGCTACCG CGGTCCAGCGGAGCAATCTGAAGCCAGACTGGCGGGTTCTTGGTTC	ctg14007	17		
61352 I		S	CCCGCCTGACGACTGTGCCCTT				
61352 P	C	S	ATGACGTGGCAGACGGGCCAGACCTACACY				
61352 P	T	S	CGCGCCGAGGAGGCCAGACCTACACY				
61352 T	C	S	GCTGGTGTAGGTCTGGCCCAGGGCACAGTCGTCAGGCGGGGA				
61352 T	T	S	GCTGGTGTAGGTCTGGCCTAGGGCACAGTCGTCAGGCGGGGA				
61352 IS	[CT]		ATTTAGGCAGGGAGAGGCCCGCACCCACACTCACCCAAGGCTGCTGGTGTAGGTCTGGCC[CT]AGGGCACAGTCGT CAGGCGGGGACAATGGGTTAAACCAGAAGTTGGCAGAGCACTTGTTG				
61369 I		A	GGGGCGTGCCGCCGGGC				
61369 P	G	A	ATGACGTGGCAGACGTGGAATTGTGGTAGCAGY				
61369 P	T	A	CGCGCCGAGGTTGGAATTGTGGTAGCAGY				
61369 T	G	A	AAATCTGCTACCACAATTCCACCCCGGCGGCACGCCCCCA				
61369 T	T	A	AAATCTGCTACCACAATTCCAACCCGGCGGCACGCCCCCA				
61369 IS	[GT]		ATCGACAGCTCAGGTCCCGCCCCTGGGGCGACAAAGGAGTCTTGGGGGCGTGCCGCCGGG[GT]TGGAATTGTGGTA GCAGATTTTTGGGGGAGGAGGGCGCAAAGCAGCTAGAAACGCACATC	ctg15907	6		
61415 I		A	CGTGTCACACCTACAAGAGTGACAGAGCCCTCT				
61415 P	G	A	ATGACGTGGCAGACGGCCTCCCTTCAGAAY				
61415 P	A	A	CGCGCCGAGGAGCCTCCCTTCAGAAATY				
61415 T	G	A	CCAGATTTCTGAAGGGAGGCCGAGGGCTCTGTCACTCTTGTAGGTGTGACACGGC				
61415 T	A	A	CCAGATTTCTGAAGGGAGGCTGAGGGCTCTGTCACTCTTGTAGGTGTGACACGGC				
61415 IS	[GA]		AGGGACAGTCATGCTCTGGGACTTTTGCCGTGTCACACCTACAAGAGTGACAGAGCCCTC[GA]GCCTCCCTTCAGAA ATCTGGGGTCCCTGAGGTCGGCTTCTCCATGATGGGCAAGGCTCCA	ctg14946	16		
61432 I		S	CCAACCCATTTCTTCCTGCTCACTCTTCCTGTCA				
61432 P	G	S	ATGACGTGGCAGACCAGTCTGCTCACTCATATTGY				
61432 P	A	S	CGCGCCGAGGTAGTCTGCTCACTCATATTGY				
61432 T	G	S	GAGCCAATATGAGTGAGCAGACTGGACAGGAAGAGTGAGCAGGAAGAAATGGGTTGGGG				
61432 T	A	S	GAGCCAATATGAGTGAGCAGACTAGACAGGAAGAGTGAGCAGGAAGAAATGGGTTGGGG				
61432 IS	[GA]		ATGTGACAGTAGAAGAGAGAACAACACACAGTGCCCGGAGCCAATATGAGTGAGCAGACT[GA]GACAGGAAGAGTGA GCAGGAAGAAATGGGTTGGGGTGGGGGAGCGGGGAGAAGACTGGCA	ctg15064	7		
61467 I		A	CGCCAGCCTCCGCAATGACTGCAAT				
61467 P	A	A	CGCGCCGAGGAACCACATAGTGCATCCY				
61467 P	G	A	ATGACGTGGCAGACGACCACATAGTGCATCCY				
61467 T	A	A	ATAGGGATGCACTATGTGGTTTTGCAGTCATTGCGGAGGCTGGCGAA				
61467 T	G	A	ATAGGGATGCACTATGTGGTCTTGCAGTCATTGCGGAGGCTGGCGAA				
61467 IS	[AG]		AGCTTGCACTAGGTTAAAAGTTGTGCCTTTCTTTTTCGCCAGCCTCCGCAATGACTGCAA[AG]ACCACATAGTGCATCC CTATGACTAGGTCATTCTTCCAGAGAACCAAGCTCATGGGCACC	ctg15944	11		
61477 I		S	AGACCCTCCCCGCTCACCTCCTCTT				
61477 P	T	S	CGCGCCGAGGATCCCCACAGTGTACTGY				
61477 P	C	S	ATGACGTGGCAGACGTCCCCACAGTGTACTY				
61477 T	T	S	GCAGCAGTACACTGTGGGGATAGAGGAGGTGAGCGGGGAGGGTCTGC				
61477 T	C	S	GCAGCAGTACACTGTGGGGACAGAGGAGGTGAGCGGGGAGGGTCTGC				
61477 IS	[TC]		TGCCCCCGATGCCAGGCAGTGAAACGTTGGCCAAGCAGCAGCAGCAGTACACTGTGGGGA[TC]AGAGGAGGTGAGC GGGGAGGGTCTGCCCCTCCACAGCCCTTCCTCCCTCGGAGCCTGCGG	ctg13023	2		
61499 I		S	CAGCAACTGTCAGACTGGGTTCACCTACCCA				
61499 P	G	S	ATGACGTGGCAGACCCTTCTGATGGCCTTCTY				
61499 P	A	S	CGCGCCGAGGTCTTCTGATGGCCTTCTY				
61499 T	G	S	CTGCAGAAGGCCATCAGAAGGGGGTAGGTGAACCCAGTCTGACAGTTGCTGCT				
61499 T	A	S	CTGCAGAAGGCCATCAGAAGAGGGTAGGTGAACCCAGTCTGACAGTTGCTGCT				
61499 IS	[GA]		GCCAGCATTCTACAGGAAGTTTGGGGGAGCACAAGGTTGCCTGCAGAAGGCCATCAGAAG[GA]GGGTAGGTGAACC CAGTCTGACAGTTGCTGCTTGGGTTTTGACGTCGTTGGACTAGTAGC	ctg13023	2		
61526 I		S	CCACCCTGCCACCCGCCACAA				
61526 P	G	S	ATGACGTGGCAGACCACCACCCCTCAGTCY				
61526 P	A	S	CGCGCCGAGGTACCACCCCTCAGTCTY				
61526 T	G	S	TCCCAGACTGAGGGGTGGTGTGTGGCGGGTGGCAGGGTGGCT				
61526 T	A	S	TCCCAGACTGAGGGGTGGTATGTGGCGGGTGGCAGGGTGGCT				
61526 IS	[GA]		CCTCCTGTTCTGAGCCCTGGGCCTGTGTTCTTCTCAGACACTCCCAGACTGAGGGGTGGT[GA]TGTGGCGGGTGGCA GGGTGGCTGTGGAGACTGGGGATCTGGAGCCTGGTGCTGGCACCTG	ctg22fin4	22		
61620 I		S	CTTCAGCTAATTTTTCTGCATCCCTGTGTTTCCATATCC				
61620 P	A	S	CGCGCCGAGGTAAGGTGTCTGGCCAGY				
61620 P	T	S	ATGACGTGGCAGACAAAGGTGTCTGGCCAY				
61620 T	A	S	CCTTCTGGCCAGACACCTTAGATATGGAAACACAGGGATGCAGAAAAATTAGCTGAAGAA				
61620 T	T	S	CCTTCTGGCCAGACACCTTTGATATGGAAACACAGGGATGCAGAAAAATTAGCTGAAGAA				
61620 IS	[AT]		TGTGGGATCGCACCAGTGCATTGATATCTGTCCCATCAGATCCTTCTGGCCAGACACCTT[AT]GATATGGAAACACAG GGATGCAGAAAAATTAGCTGAAGAAATATAACTGTGATGCTATAT	ctg22fin4	22		
61636 I		S	CCCGGGAGGACCAAGGACACAGGTT				
61636 P	C	S	ATGACGTGGCAGACGGAAGGCTTTTACCTGAGY				
61636 P	T	S	CGCGCCGAGGAGAAGGCTTTTACCTGAGY				
61636 T	C	S	AGGCCTCAGGTAAAAGCCTTCCACCTGTGTCCTTGGTCCTCCCGGGCT				
61636 T	T	S	AGGCCTCAGGTAAAAGCCTTCTACCTGTGTCCTTGGTCCTCCCGGGCT				
61636 IS	[CT]		GGGGCACACTGGCCCAAGATGACCCACCTATTATCTTTGAGGCCTCAGGTAAAAGCCTTC[CT]ACCTGTGTCCTTGGT CCTCCCGGGCTCCCTCCACCAGGACAGCCCAGGTCCCGATTACAG	ctg22fin4	22		
61669 I		A	GTTCCACTTTCTCACCCTGGGAAACTTCAGAAAGACTGT				
61669 P	A	A	CGCGCCGAGGAAATGGAAATGAGCATTAGGAY				
61669 P	G	A	ATGACGTGGCAGACGAATGGAAATGAGCATTAGGAY				
61669 T	A	A	TAGCTCCTAATGCTCATTTCCATTTCAGTCTTTCTGAAGTTTCCCAGGGTGAGAAAGTGGAACTC				
61669 T	G	A	TAGCTCCTAATGCTCATTTCCATTCCAGTCTTTCTGAAGTTTCCCAGGGTGAGAAAGTGGAACTC				
61669 IS	[AG]		CAATGATGATTCATTGTCCTGAGTTCCACTTTCTCACCCTGGGAAACTTCAGAAAGACTG[AG]AATGGAAATGAGCATT AGGAGCTAGGTCCGCTTGCCTGGGCTGTCTCTCAGGTTAGTGGA	ctg15804	2		
61733 I		A	GCAAAGCAGATGCATGCAACAACTTGGAAAAT				
61733 P	A	A	CGCGCCGAGGAGTTACAGACAACACATTAGCY				
61733 P	G	A	ATGACGTGGCAGACGGTTACAGACAACACATTAGCY				
61733 T	A	A	TTCTGCTAATGTGTTGTCTGTAACTTTTTCCAAGTTGTTGCATGCATCTGCTTTGCTT				
61733 T	G	A	TTCTGCTAATGTGTTGTCTGTAACCTTTTCCAAGTTGTTGCATGCATCTGCTTTGCTT				
61733 IS	[AG]		TTCTAGCTTCATCCAATCTATTTTTAAAAGCAAAGCAGATGCATGCAACAACTTGGAAAA[AG]GTTACAGACAACACATT AGCAGAAGAAAAATAGCATAACAAAAAAAGAATAACAAAACTC	ctg12325	11		
61746 I		S	CCTACGTGCCTGCCCTCTGCCCAT				
61746 P	G	S	CGCGCCGAGGCTGAAAGTGGGAGCATCY				
61746 P	C	S	ATGACGTGGCAGACGTGAAAGTGGGAGCATCY				
61746 T	G	S	TTCTGATGCTCCCACTTTCAGTGGGCAGAGGGCAGGCACGTAGGCA				
61746 T	C	S	TTCTGATGCTCCCACTTTCACTGGGCAGAGGGCAGGCACGTAGGCA				
61746 IS	[GC]		CTGATCTGTCCCTCACATGGGGGTTGGGGGCACAGCTCCCTTCTGATGCTCCCACTTTCA[GC]TGGGCAGAGGGCAG GCACGTAGGCAGTGGGGAGAAAGAGGTGAAAGTTAGAGGGAAAGGC	ctg22fin3	22	FLJ14327	
61894 I		S	TGTTTTGTTTTCCTGGGGGGAGGGAAGGGT				
61894 P	C	S	ATGACGTGGCAGACGGCAAAGTCATGGTCCY				
61894 P	T	S	CGCGCCGAGGAGCAAAGTCATGGTCCTY				
61894 T	C	S	GGCTAGGACCATGACTTTGCCCCCTTCCCTCCCCCCAGGAAAACAAAACACA				

FIGURE 129D

61894 T	T	S	GGCTAGGACCATGACTTTGCTCCCTTCCCTCCCCCCAGGAAAACAAAACACA				
61894 IS	[CT]		CCCAGGACGCAAGACTTAAGACTCCACGCTCCCAGGCGGGGGCTAGGACCATGACTTTGC[CT]CCCTTCCCTCCCCC CAGGAAAACAAAACACAGGCGGGGAGACTCGGGTCTTTATTAGCAA	ctg13214	2		
61904 I		A	TGTGGGGAGGGGGATAAGCAGAAAACTGTGAAT				
61904 P	C	A	CGCGCCGAGGCAGACTTAGGAATTTTTGGAGY				
61904 P	G	A	ATGACGTGGCAGACGAGACTTAGGAATTTTTGGAGY				
61904 T	C	A	ATTGCTCCAAAAATTCCTAAGTCTGTTCACAGTTTTCTGCTTATCCCCCTCCCCACAGT				
61904 T	G	A	ATTGCTCCAAAAATTCCTAAGTCTCTTCACAGTTTTCTGCTTATCCCCCTCCCCACAGT				
61904 IS	[CG]		GTTTTGTTTTTACAAGTTGTTAGTACACTGTGGGGAGGGGGATAAGCAGAAAACTGTGAA[CG]AGACTTAGGAATTTTT GGAGCAATTGTAGTGTCTATTACATAATAGCACACAAATATTAT	ctg53	14		
62000 I		S	GAGGAAGAGGCCCAGGCCGCCC				
62000 P	A	S	CGCGCCGAGGTGCCAGCAGCACAY				
62000 P	C	S	ATGACGTGGCAGACGGCCAGCAGCACAY				
62000 T	A	S	CCTCTGTGCTGCTGGCAGGCGGCCTGGGCCTCTTCCTCTC				
62000 T	C	S	CCTCTGTGCTGCTGGCCGGCGGCCTGGGCCTCTTCCTCTC				
62000 IS	[AC]		TGATGAGAGAGCGTGGCGGCTGGCAGTGGGCTTCCTGGCTGTGTCCTCTGTGCTGCTGGC[AC]GGCGGCCTGGGC CTCTTCCTCTCCTATGTGTGGAAGTGGGTCAGGCTCTCCCTCCCGGGG	ctg53	14	FLJ11000	
62016 I		A	AGGACTCAGGGAACTTGCTTGAGGGAGAAAAAACTTA				
62016 P	T	A	CGCGCCGAGGTCACTGTGAATAAAAACCTGAY				
62016 P	C	A	ATGACGTGGCAGACCCACTGTGAATAAAAACCTGY				
62016 T	T	A	GAGATCAGGTTTTTATTCACAGTGAAAGTTTTTTCTCCCTCAAGCAAGTTCCCTGAGTCCTGC				
62016 T	C	A	GAGATCAGGTTTTTATTCACAGTGGAAGTTTTTTCTCCCTCAAGCAAGTTCCCTGAGTCCTGC				
62016 IS	[TC]		CCCAAGCAAAATACTCTGCCCAGCAGGACTCAGGGAACTTGCTTGAGGGAGAAAAAACTT[TC]CACTGTGAATAAAAA CCTGATCTCTTCATCCCAAGAAACAGCCCTGAAGGAGGTCCTCAC	ctg53	14		
62047 I		S	CAGAAAACACCATCCAAGCAGCCAGGCAGTATA				
62047 P	G	S	ATGACGTGGCAGACCGGGAGCAGGAAAGCY				
62047 P	A	S	CGCGCCGAGGTGGGAGCAGGAAAGCY				
62047 T	G	S	ACTGGCTTTCCTGCTCCCGATACTGCCTGGCTGCTTGGATGGTGTTTTCTGGA				
62047 T	A	S	ACTGGCTTTCCTGCTCCCAATACTGCCTGGCTGCTTGGATGGTGTTTTCTGGA				
62047 IS	[GA]		TGCTCCCAAGGGGCTTCTCACCTCTGTGCTAGGGTCCACAACACTGGCTTTCCTGCTCCC[GA]ATACTGCCTGGCTG CTTGGATGGTGTTTTCTGGAGGAAGTCAGAGATCCTCTGCACCAAG	ctg12325	11		
62091 I		S	TCCAGCATTCTCCAAATAGACAGCTTTTAACGAGTGCCA				
62091 P	G	S	ATGACGTGGCAGACCTGTCTGAAGGATCTATCCAY				
62091 P	A	S	CGCGCCGAGGTTGTCTGAAGGATCTATCCAY				
62091 T	G	S	GGAGTGGATAGATCCTTCAGACAGGGCACTCGTTAAAAGCTGTCTATTTGGAGAATGCTGGAAA				
62091 T	A	S	GGAGTGGATAGATCCTTCAGACAAGGCACTCGTTAAAAGCTGTCTATTTGGAGAATGCTGGAAA				
62091 IS	[GA]		CCAGGACTGGAGAGCCTGGAAATACAGCGAAGGCTGTGGAGTGGATAGATCCTTCAGACA[GA]GGCACTCGTTAAAA GCTGTCTATTTGGAGAATGCTGGAAAAACCATGCTATTGTTCCCTA	ctg12325	11	FLJ14126	
62144 I		S	AGCAGATCACTGGGCAAAGATGCCTAATGAAAATGCT				
62144 P	C	S	ATGACGTGGCAGACGCATTATGGATGTGGGCY				
62144 P	T	S	CGCGCCGAGGACATTATGGATGTGGGCY				
62144 T	C	S	ACCCGCCCACATCCATAATGCGCATTTTCATTAGGCATCTTTGCCCAGTGATCTGCTGA				
62144 T	T	S	ACCCGCCCACATCCATAATGTGCATTTTCATTAGGCATCTTTGCCCAGTGATCTGCTGA				
62144 IS	[CT]		AGGCCTGTGCCTGGACCTTCCATCCTCCCTTCCTCTCCCCACCCGCCCACATCCATAATG[CT]GCATTTTCATTAGGC ATCTTTGCCCAGTGATCTGCTGATTTGTTATATTAGAATTGCAAA	ctg14145	11		
62203 I		A	GGGCGCTCCAGGCGACAGCAA				
62203 P	C	A	ATGACGTGGCAGACCTGCAGACGCCATTATCY				
62203 P	T	A	CGCGCCGAGGTTGCAGACGCCATTATCY				
62203 T	C	A	AGAGGATAATGGCGTCTGCAGTGCTGTCGCCTGGAGCGCCCTC				
62203 T	T	A	AGAGGATAATGGCGTCTGCAATGCTGTCGCCTGGAGCGCCCTC				
62203 IS	[CT]		CCTCCCCCCAGCTAGTGAGTGCGCGAACGAGAAAGGAGGAGGGCGCTCCAGGCGACAGCA[CT]TGCAGACGCCATT ATCCTCTGTTTCTCTGCTGCACCGACCTCGACGTCTTGCCTGTGTCC	ctg15907	6		
62218 I		S	CCCAAGAATCTTAATTTTGGCCCTAGAACTACACAAATT				
62218 P	G	S	CGCGCCGAGGCTAAAACACACAAAACAAACATGY				
62218 P	C	S	ATGACGTGGCAGACGTAAAACACACAAAACAAACATGY				
62218 T	G	S	GTGACATGTTTGTTTTGTGTGTTTTAGATTTGTGTAGTTCTAGGGCCAAAATTAAGATTCTTGGGGG				
62218 T	C	S	GTGACATGTTTGTTTTGTGTGTTTTACATTTGTGTAGTTCTAGGGCCAAAATTAAGATTCTTGGGGG				
62218 IS	[GC]		ATGGTAAAAATTTTAGTATTGTAACTTTTTGGAGGTGACATGTTTGTTTTGTGTGTTTTA[GC]ATTTGTGTAGTTCTAGG GCCAAAATTAAGATTCTTGGGGGAAATAAAGGTTTTGTGTTGT	ctg15330	9		
62278 I		A	CCGAGCCCGAGTCCCCGAGCT				
62278 P	G	A	ATGACGTGGCAGACGTGAGCCGCAATCGY				
62278 P	C	A	CGCGCCGAGGCTGAGCCGCAATCGY				
62278 T	G	A	GCAGCGATTGCGGCTCAGGCTCGGGGACTCGGGCTCGGGG				
62278 T	C	A	GCAGCGATTGCGGCTCAGGCTCGGGGACTCGGGCTCGGGG				
62278 IS	[GC]		GGGAGCAGGCGCAGGAGGAGGAAGCGAGCGCCCCCGAGCCCCGAGCCCGAGTCCCCGAGC[GC]TGAGCCGCAATC GCTGCGGTACTCTGCTCCGGATTCGTGTGCGCGGGCTGCGCCGAGCGC	ctg13715	13		
62374 I		A	CCTTTCAAGAATCCCTACGTACTGTGTGGACCTACAGT				
62374 P	G	A	ATGACGTGGCAGACGTAAGGCTCTTCAGCTTCY				
62374 P	A	A	CGCGCCGAGGATAAGGCTCTTCAGCTTCTY				
62374 T	G	A	TGGGAGAAGCTGAAGAGCCTTACCTGTAGGTCCACACAGTACGTAGGGATTCTTGAAAGGCC				
62374 T	A	A	TGGGAGAAGCTGAAGAGCCTTATCTGTAGGTCCACACAGTACGTAGGGATTCTTGAAAGGCC				
62374 IS	[GA]		GATGGCGTCTCAAGTATTTGAGGCCTTTCAAGAATCCCTACGTACTGTGTGGACCTACAG[GA]TAAGGCTCTTCAGCT TCTCCCAGTTTCAGACAGATTCCCATCTACCAGAGAAAACACTTT	ctg15907	6		
62415 I		S	CTTGGCTAATTTATTTTAAAACCAGTTTTAAAACGTAAGTAGCATTACGATTATTTGT				
62415 P	T	S	CGCGCCGAGGAAAGAGTATTTTTATTATAGGAACAATAAAAAY				
62415 P	G	S	ATGACGTGGCAGACCAAGAGTATTTTTATTATAGGAACAATAAAAAY				
62415 T	T	S	TTTATTTTTATTGTTCCTATAATAAAAATACTCTTTCAAATAATCGTAATGCTACTTACGTTTTAAAACTGGTTTTAAAATA AATTAGCCAAGAT				
62415 T	G	S	TTTATTTTTATTGTTCCTATAATAAAAATACTCTTGCAAATAATCGTAATGCTACTTACGTTTTAAAACTGGTTTTAAAATA AATTAGCCAAGAT				
62415 IS	[TG]		TTTATTTATAATTTATGTAGAAATATTTATTTTTATTGTTCCTATAATAAAAATACTCTT[TG]CAAATAATCGTAATGCTAC TTACGTTTTAAAACTGGTTTTAAAATAAATTAGCCAAGATG				
62426 I		A	CACCACAGCAACCTCCAGGGGGCA				
62426 P	C	A	ATGACGTGGCAGACCGCCAACCCCACCY				
62426 P	T	A	CGCGCCGAGGTGCCAACCCCACCY				
62426 T	C	A	CTGGGGTGGGGTTGGCGGCCCCCTGGAGGTTGCTGTGGTGAA				
62426 T	T	A	CTGGGGTGGGGTTGGCAGCCCCCTGGAGGTTGCTGTGGTGAA				
62426 IS	[CT]		CGAGGCAAGCATGACACAGCATGGAAGGCAGAGGTTTCACCACAGCAACCTCCAGGGGGC[CT]GCCAACCCCACCC CAGCCTGCAGGTGAGGGCGCTGAGTCTGAGGTCACCGAGGATCCTAC	ctg15064	7		
62433 I		S	GATCTGTAAGAAATGAAGAAGGTTGCCCCTTCATACTGGTTGT				
62433 P	G	S	CGCGCCGAGGCTGATGCTTCTGACATGAAY				
62433 P	C	S	ATGACGTGGCAGACGTGATGCTTCTGACATGAAY				
62433 T	G	S	CTGTTTCATGTCAGAAGCATCAGCAACCAGTATGAAGGGGCAACCTTCTTCATTTCTTACAGATCCA				
62433 T	C	S	CTGTTTCATGTCAGAAGCATCACCAACCAGTATGAAGGGGCAACCTTCTTCATTTCTTACAGATCCA				

FIGURE 129D

				GAATTCAGTTGTGCGGAAAAACATCAACACTGACCTGTCTGTTTCATGTCAGAAGCATCA[GC]CAACCAGTATGAAGG			
62433 IS	[GC]			GGCAACCTTCTTCATTTCTTACAGATCCAAAGGTCAGGAAAAGGA	ctg15064	7	
62435 I			S	GTTAGTTGCCCGCTCTGGGAGCCCT			
62435 P	C		S	ATGACGTGGCAGACGACTCCTCACATCCGTY			
62435 P	G		S	CGCGCCGAGGCACTCCTCACATCCGTY			
62435 T	C		S	GATGACGGATGTGAGGAGTCGGGCTCCCAGAGCGGGCAACTAACAG			
62435 T	G		S	GATGACGGATGTGAGGAGTGGGGCTCCCAGAGCGGGCAACTAACAG			
				ACAGTGGGGACACTACAGCAGGTGAAGGGGGAGAAGAAAGAGATGACGGATGTGAGGAGT[CG]GGGCTCCCAGAGC			
62435 IS	[CG]			GGGCAACTAACAGAGGCTGAGAATTTCCAAGAGGTCCTGGCTCTGGG	ctg19	19	
62447 I			A	C*CCTCCAGAAAGCCCCCCTTGATCCTTT			
62447 P	G		A	ATGACGTGGCAGACGGGTGAGGTCAGGCY			
62447 P	A		A	CGCGCCGAGGAGGTGAGGTCAGGCY			
62447 T	G		A	AGGGGCCTGACCTCACCCAAGGATCAAGGGGGGCTTTCTGGAGGAGCA			
62447 T	A		A	AGGGGCCTGACCTCACCTAAGGATCAAGGGGGGCTTTCTGGAGGAGCA			
				GTGCACCTAATTCCAGAATCTTTGTGTGCCTGCTCCTCCAGAAAGCCCCCCTTGATCCTT[GA]GGTGAGGTCAGGCCC			
62447 IS	[GA]			CTCTGATCTCCCATAGCCCCCCCCGGCTCTGCTGTTCTAGCAGGG	ctg15907	6	
62494 I			S	TCCCAGCGTCCCAGCCCAGCTAA			
62494 P	G		S	ATGACGTGGCAGACCCCAAGTAGAAGGTGGGY			
62494 P	A		S	CGCGCCGAGGTCCAAGTAGAAGGTGGGY			
62494 T	G		S	CCGCCCCACCTTCTACTTGGGTAGCTGGGCTGGGACGCTGGGACA			
62494 T	A		S	CCGCCCCACCTTCTACTTGGATAGCTGGGCTGGGACGCTGGGACA			
				GACAGAGCACCCACTGCCCAAGACTCAGCCATAGAAGATGCCGCCCCACCTTCTACTTGG[GA]TAGCTGGGCTGGGA			
62494 IS	[GA]			CGCTGGGACAGGACCCCGTCCTCCTTCATGACTCCCACTGCTGCCT	ctg18743	16	FLJ12768
62500 I			A	GCAAGGGTGGCGGTTATTCTGGGCCA			
62500 P	C		A	ATGACGTGGCAGACCACTGGTGTGCAGGY			
62500 P	T		A	CGCGCCGAGGTACTGGTGTGCAGGGY			
62500 T	C		A	TGGCCCCTGCACACCAGTGGGCCCAGAATAACCGCCACCCTTGCCA			
62500 T	T		A	TGGCCCCTGCACACCAGTAGGCCCAGAATAACCGCCACCCTTGCCA			
				CTTCCTGGAAACTTGAGTCCAGCTGTTGCAGGATGGCAAGGGTGGCGGTTATTCTGGGCC[CT]ACTGGTGTGCAGGG			
62500 IS	[CT]			GCCAGGGCCAGGGGCTCTCATGGTCGGGGAGAGAGGCCTGGAGAAG	ctg16401	17	
62504 I			S	TGGAAGATGCCGCACCTCCACAAACTTGACT			
62504 P	C		S	ATGACGTGGCAGACGGTAATCATGAAGGCCTCY			
62504 P	T		S	CGCGCCGAGGAGTAATCATGAAGGCCTCY			
62504 T	C		S	AGAGGAGGCCTTCATGATTACCGTCAAGTTTGTGGAGGTGCGGCATCTTCCACG			
62504 T	T		S	AGAGGAGGCCTTCATGATTACTGTCAAGTTTGTGGAGGTGCGGCATCTTCCACG			
				GATCAGCCACACTGCCCGGCAGCTGGACTGGCCAGACCCAGAGGAGGCCTTCATGATTAC[CT]GTCAAGTTTGTGGA			
62504 IS	[CT]			GGTGCGGCATCTTCCACGTGTCCTTCCCCCTCTTTCTAGAACAGCC	ctg16687	15	
62513 I			A	CTGTGTTTATTTCTATCGTGGAAGAGATAAAACCCTACAGAAGT			
62513 P	A		A	CGCGCCGAGGAAGGAAAGAAAAGAGGCCY			
62513 P	G		A	ATGACGTGGCAGACGAGGAAAGAAAAGAGGCCY			
62513 T	A		A	GGTAGGCCTCTTTTCTTTCCTTCTTCTGTAGGGTTTTATCTCTTCCACGATAGAAATAAACACAGCA			
62513 T	G		A	GGTAGGCCTCTTTTCTTTCCTCCTTCTGTAGGGTTTTATCTCTTCCACGATAGAAATAAACACAGCA			
				TTGCCAGTTTTAAAATGCTGTGTTTATTTCTATCGTGGAAGAGATAAAACCCTACAGAAG[AG]AGGAAAGAAAAGAGGC			
62513 IS	[AG]			CTACCAAGAGGTTGACAGACTCGATGACGTCCAAGAACACCTCA	ctg18433	19	
62559 I			S	CAAATGCTGCCTAGCGGAATATTCGTGACTTGGGC			
62559 P	C		S	ATGACGTGGCAGACGGAGTCTGGGACTATTTTTATAAY			
62559 P	A		S	CGCGCCGAGGTGAGTCTGGGACTATTTTTATAAGY			
62559 T	C		S	CCATCTTATAAAAATAGTCCCAGACTCCCCCAAGTCACGAATATTCCGCTAGGCAGCATTTGCT			
62559 T	A		S	CCATCTTATAAAAATAGTCCCAGACTCACCCAAGTCACGAATATTCCGCTAGGCAGCATTTGCT			
				AAACCCTCAACATTCATTAAAAGCAGAGCCCACCCATCTTATAAAAATAGTCCCAGACTC[CA]CCCAAGTCACGAATAT			
62559 IS	[CA]			TCCGCTAGGCAGCATTTGCTCCCATGTTACACAAGTGATCCCTT	ctg18433	19	
62621 I			A	GACTTGGGGGAGTGGTCTGGGGAGACT			
62621 P	G		A	ATGACGTGGCAGACGGGTGAGCTTTATTCTAGATCY			
62621 P	A		A	CGCGCCGAGGAGGTGAGCTTTATTCTAGATCTY			
62621 T	G		A	CCCAAGATCTAGAATAAAGCTCACCCGTCTCCCCAGACCACTCCCCCAAGTCAC			
62621 T	A		A	CCCAAGATCTAGAATAAAGCTCACCTGTCTCCCCAGACCACTCCCCCAAGTCAC			
				GAAACTTTTTTCTGGACTTGGTGTGCTGGCTGGTGACTTGGGGGAGTGGTCTGGGGAGAC[GA]GGTGAGCTTTATTC			
62621 IS	[GA]			TAGATCTTGGGTTGCCACATGGGGTGAACCTCCTTGTGAGACATCA	ctg21fin2	21	
62675 I			A	TTTGACAAATGTTGGCAATATTTTTTTAAAAGTTAAATCATATTGCTTTCATGAATAAATC			
62675 P	G		A	ATGACGTGGCAGACGAAAATATAAAGGTCATGGATGCY			
62675 P	T		A	CGCGCCGAGGTAAAATATAAAGGTCATGGATGCY			
62675 T	G		A	GTTTGCATCCATGACCTTTATATTTTCATTTATTCATGAAAGCAATATGATTTAACTTTTAAAAAAATATTGCCAACATTT GTCAAA			
62675 T	T		A	GTTTGCATCCATGACCTTTATATTTTAATTTATTCATGAAAGCAATATGATTTAACTTTTAAAAAAATATTGCCAACATTT GTCAAA			
				TTTGACAAATGTTGGCAATATTTTTTTAAAAGTTAAATCATATTGCTTTCATGAATAAAT[GT]AAAATATAAAGGTCATGG			
62675 IS	[GT]			ATGCAAACAAATGTTACATATACACATTCTGTCTCTCCAGAT	ctg21fin5	21	
62680 I			A	ACACCAAACCCACCTATCTCGCCGCAGA			
62680 P	C		A	ATGACGTGGCAGACCTTGACTGCCTTGACTTCY			
62680 P	T		A	CGCGCCGAGGTTTGACTGCCTTGACTTCY			
62680 T	C		A	TACAGAAGTCAAGGCAGTCAAACTGCGGCGAGATAGGTGGGTTTGGTGTCA			
62680 T	T		A	TACAGAAGTCAAGGCAGTCAAACTGCGGCGAGATAGGTGGGTTTGGTGTCA			
				GAGAAAGTGAAATACCACTTTAAAAAATTACTGACACCAAACCCACCTATCTCGCCGCAG[CT]TTGACTGCCTTGACTT			
62680 IS	[CT]			CTGTAGAAAATTCTATTTCAATAACAGTCTTCTTCTTCAGGTCA	ctg21fin5	21	
62740 I			A	CTTTTCATTGCCCATGCCTCCCCCACTATTAAAAACAGA			
62740 P	C		A	ATGACGTGGCAGACCTGTCCCAAAATTTTACAGTATAAY			
62740 P	T		A	CGCGCCGAGGTTGTCCCAAAATTTTACAGTATAAGY			
62740 T	C		A	GAGACTTATACTGTAAAATTTTGGGACAGCTGTTTTTAATAGTGGGGGAGGCATGGGCAATGAAAAGGT			
62740 T	T		A	GAGACTTATACTGTAAAATTTTGGGACAACTGTTTTTAATAGTGGGGGAGGCATGGGCAATGAAAAGGT			
				TCCACTGAGATTTTCAAACTACCTTTTCATTGCCCATGCCTCCCCCACTATTAAAAACAG[CT]TGTCCCAAAATTTTACA			
62740 IS	[CT]			GTATAAGTCTCTAATTGTTCCCTAACAAATAATTTGAAAATGA	ctg21fin5	21	
62801 I			A	GGAATAGGTTGCAAATCTCAGATTTTAGGGATTGAGTCACACCTA			
62801 P	T		A	CGCGCCGAGGTCAATCTATAGAATGAAGTTGACCY			
62801 P	C		A	ATGACGTGGCAGACCCAATCTATAGAATGAAGTTGACY			
62801 T	T		A	AATTGGTCAACTTCATTCTATAGATTGAAGGTGTGACTCAATCCCTAAAATCTGAGATTTGCAACCTATTCCAA			
62801 T	C		A	AATTGGTCAACTTCATTCTATAGATTGGAGGTGTGACTCAATCCCTAAAATCTGAGATTTGCAACCTATTCCAA			
				CCTGAGTGCTCAGTTTGGAATAGGTTGCAAATCTCAGATTTTAGGGATTGAGTCACACCT[TC]CAATCTATAGAATGAA			
62801 IS	[TC]			GTTGACCAATTAAAAAAAAAAAAAACCTATCATTTTCACAAATT	ctg17944	8	
62857 I			S	CAGATGTTCATATCTTAAAGAGGTTTTGGAAGGCTTAGACTT			
62857 P	T		S	CGCGCCGAGGATCTACACAGAAACGGTCAY			
62857 P	C		S	ATGACGTGGCAGACGTCTACACAGAAACGGTCY			
62857 T	T		S	AATCTGACCGTTTCTGTGTAGATAGTCTAAGCCTTCCAAAACCTCTTTAAGATATGAACATCTGAA			
62857 T	C		S	AATCTGACCGTTTCTGTGTAGACAGTCTAAGCCTTCCAAAACCTCTTTAAGATATGAACATCTGAA			

FIGURE 129D

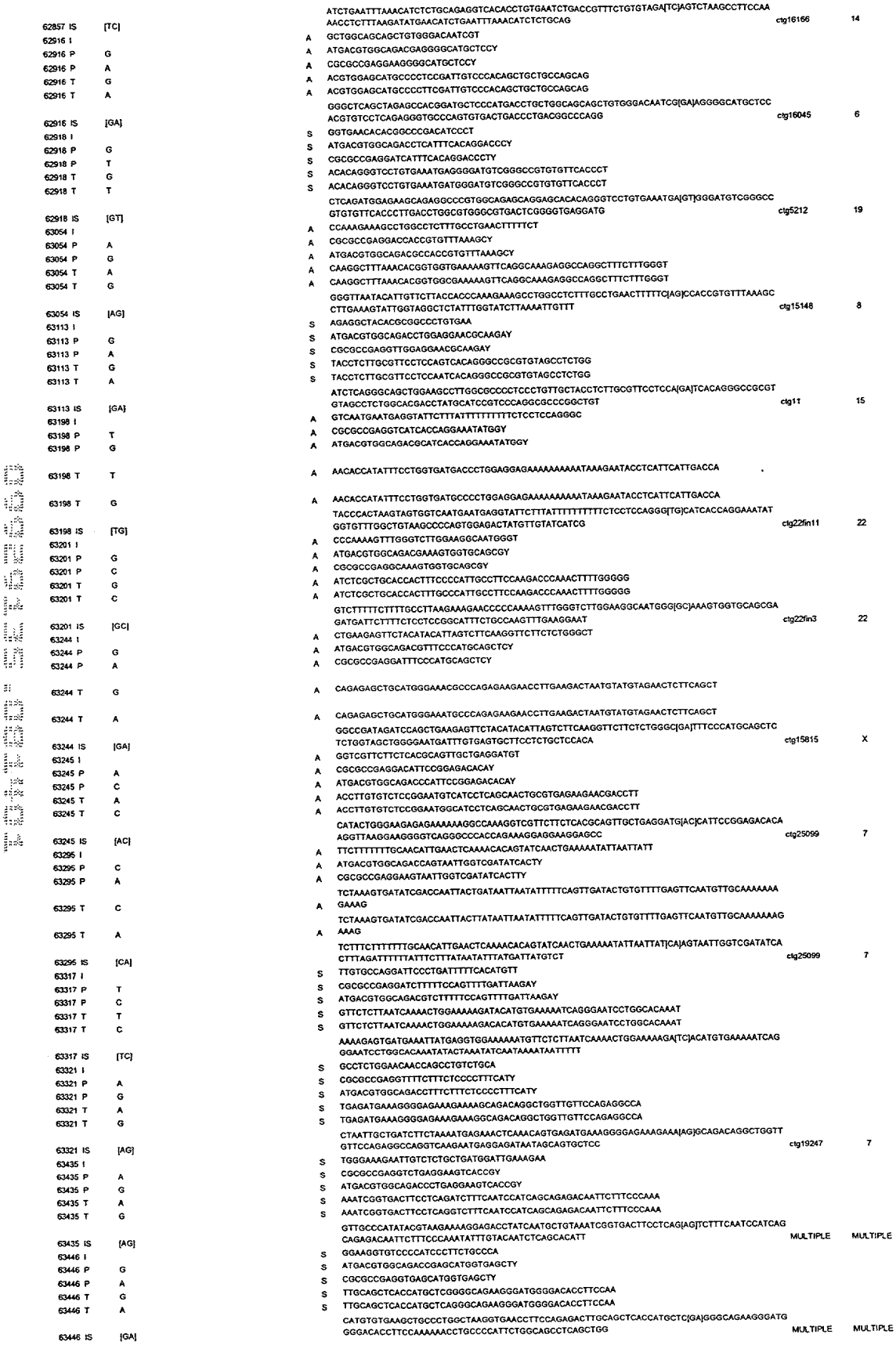


FIGURE 129D

63447 I		A	TCGGCTGTTGAGTGGCCTGGGTCAT			
63447 P	G	A	ATGACGTGGCAGACGGGACAGTGTTTTCATGGY			
63447 P	C	A	CGCGCCGAGGCGGACAGTGTTTTCATGGY			
63447 T	G	A	TTAGCCATGAAAACACTGTCCCTGACCCAGGCCACTCAACAGCCGACA			
63447 T	C	A	TTAGCCATGAAAACACTGTCCGTGACCCAGGCCACTCAACAGCCGACA			
63447 IS	[GC]		CCTGCCCCATTCTGGCAGCCTCAGCTGGACTTACTGTCGGCTGTTGAGTGGCCTGGGTCA[GC]GGACAGTGTTTTCA TGGCTAAGAACTCCACTCCAGACACTGAGACTGAGAAACATCCCCA	ctg832	11	
63470 I		A	CCCTGATTCCTCCTGTAGCTTATAGCTCAGATTATAACAGACAACAT			
63470 P	A	A	CGCGCCGAGGAAGCTTAATAGAGGTCACAGAY			
63470 P	G	A	ATGACGTGGCAGACGAGCTTAATAGAGGTCACAGY			
63470 T	A	A	AGTTTCTGTGACCTCTATTAAGCTTTGTTGTCTGTTATAATCTGAGCTATAAGCTACAGGAGGAATCAGGGTG			
63470 T	G	A	AGTTTCTGTGACCTCTATTAAGCTCTGTTGTCTGTTATAATCTGAGCTATAAGCTACAGGAGGAATCAGGGTG			
63470 IS	[AG]		TTTTTCTGATCCCACCCTGATTCCTCCTGTAGCTTATAGCTCAGATTATAACAGACAACA[AG]AGCTTAATAGAGGTCA CAGAAACTTCCAGTTCTCACTTTGCTGTGTACCTTGCATTTAAA	ctg832	11	
63474 I		A	TCAGCCCACTGCAAAACATCAGGTCTCCCA			
63474 P	C	A	ATGACGTGGCAGACCTCTTCATCAGACTTTTATTTCATTY			
63474 P	T	A	CGCGCCGAGGTTCTTCATCAGACTTTTATTTCATTY			
63474 T	C	A	GCAAAATGAAATAAAAGTCTGATGAAGAGGGGAGACCTGATGTTTTGCAGTGGGCTGAGA			
63474 T	T	A	GCAAAATGAAATAAAAGTCTGATGAAGAAGGGAGACCTGATGTTTTGCAGTGGGCTGAGA			
63474 IS	[CT]		TAAGGTTGTATAGCCTTGTGGAACTTTCTTCTCAGCCCACTGCAAAACATCAGGTCTCCC[CT]TCTTCATCAGACTTTT ATTTCATTTTGCTTCCTAAAAAATGAATAACATTTTTGCATGAA	ctg832	11	
63501 I		S	CATGAATCTAGTGGTCATCATTTTCTTTGTAATTTATTTTTATCTTACTGGGTACT			
63501 P	T	S	CGCGCCGAGGATAGACTTGGAACCCTACAY			
63501 P	C	S	ATGACGTGGCAGACGTAGACTTGGAACCCTACAY			
63501 T	T	S	AGCTTGTAGGGTTCCAAGTCTATGTACCCAGTAAGATAAAAATAAATTACAAAGAAAATGATGACCACTAGATTCATGT T			
63501 T	C	S	AGCTTGTAGGGTTCCAAGTCTACGTACCCAGTAAGATAAAAATAAATTACAAAGAAAATGATGACCACTAGATTCATGT T			
63501 IS	[TC]		GTATTTTATGCGAATGCCACTGCAATACTAAATAATCCAGCTTGTAGGGTTCCAAGTCTA[TC]GTACCCAGTAAGATAA AAATAAATTACAAAGAAAATGATGACCACTAGATTCATGTTAGA	ctg45	8	
63505 I		A	GATCCTATTCCTGATGTTTTACAGAGAATACAAGTCATTTATATAAAAATGCAATGA			
63505 P	C	A	ATGACGTGGCAGACCGAATGGGGTCAGTTACY			
63505 P	T	A	CGCGCCGAGGTGAATGGGGTCAGTTACTY			
63505 T	C	A	TTTAAGTAACTGACCCCATTCGCATTGCATTTTTATATAAATGACTTGTATTCTCTGTAAAACATCAGGAATAGGATCCT			
63505 T	T	A	TTTAAGTAACTGACCCCATTCACATTGCATTTTTATATAAATGACTTGTATTCTCTGTAAAACATCAGGAATAGGATCCT			
63505 IS	[CT]		TCAGGATCCTATTCCTGATGTTTTACAGAGAATACAAGTCATTTATATAAAAATGCAATG[CT]GAATGGGGTCAGTTACT TAAAAGAAATTATTGTTTCTGCTGTCATGTGTTCTACTTGGTG	MULTIPLE	MULTIPLE	
63553 I		A	ACATCTTACCTTCTCCTCAGTATTTTGAACAACAGTGATAGTGTAATGTCCC			
63553 P	T	A	CGCGCCGAGGTACCTCTGATGACTGCTCY			
63553 P	G	A	ATGACGTGGCAGACGACCTCTGATGACTGCTY			
63553 T	T	A	GATAGAGCAGTCATCAGAGGTAGGACATTACACTATCACTGTTGTTCAAAATACTGAGGAGAAGGTAAGATGTCC			
63553 T	G	A	GATAGAGCAGTCATCAGAGGTCGGACATTACACTATCACTGTTGTTCAAAATACTGAGGAGAAGGTAAGATGTCC			
63553 IS	[TG]		GCAGTAAGGACATCTTACCTTCTCCTCAGTATTTTGAACAACAGTGATAGTGTAATGTCC[TG]ACCTCTGATGACTGCT CTATCAAATTACCAGCAGTATTTATGTTCCAGAGTAACCCCTGG	ctg16291	9	
63559 I		S	CAGTTTAGGTGATTTGGAAGGCTGAGAAGGTACTTGTCTAGAT			
63559 P	C	S	ATGACGTGGCAGACGGGGTGCACTTCTCTTTAAGY			
63559 P	T	S	CGCGCCGAGGAGGTGCACTTCTCTTTAAGY			
63559 T	C	S	TGTGCTTAAAGAGAAGTGCACCCTCTAGACAAGTACCTTCTCAGCCTTCCAAATCACCTAAACTGCG			
63559 T	T	S	TGTGCTTAAAGAGAAGTGCACCTTCTAGACAAGTACCTTCTCAGCCTTCCAAATCACCTAAACTGCG			
63559 IS	[CT]		TAGGATCGTTCACCAGCCCAGAACTGACAGAACATAACTGTGCTTAAAGAGAAGTGCACC[CT]TCTAGACAAGTACCT TCTCAGCCTTCCAAATCACCTAAACTGCGGAAGGCCAGATGGAAT	ctg25099	7	
63596 I		S	GATGGCTGCTTCCTTTGGGTGTGTTGCAGT			
63596 P	G	S	CGCGCCGAGGCCTTTCTTTGGTAATATGTCAGY			
63596 P	C	S	ATGACGTGGCAGACGCTTTCTTTGGTAATATGTCAGY			
63596 T	G	S	TAGACTGACATATTACCAAAGAAAGGCTGCAACACACCCAAAGGAAGCAGCCATCCT			
63596 T	C	S	TAGACTGACATATTACCAAAGAAAGCCTGCAACACACCCAAAGGAAGCAGCCATCCT			
63596 IS	[GC]		TTGCTCTTTGAAAATTCTCTTCTTTAGAGTCTTAATAGACTGACATATTACCAAAGAAAG[GC]CTGCAACACACCCAAAG GAAGCAGCCATCCTTCAGTGGGAGGTGGCTAGATGTTCTCTAT	ctg13740	5	
63597 I		A	TCATGTTAATTCTGTTTTAGGATTGGGCACAGCGT			
63597 P	G	A	ATGACGTGGCAGACGGCTTGGTGTCTTGGY			
63597 P	A	A	CGCGCCGAGGAGCTTGGTGTCTTGGAY			
63597 T	G	A	TAATTCCAAGACACCAAGCCCGCTGTGCCCAATCCTAAAACAGAATTAACATGAAA			
63597 T	A	A	TAATTCCAAGACACCAAGCTCGCTGTGCCCAATCCTAAAACAGAATTAACATGAAA			
63597 IS	[GA]		AATCAATTACAAGACAAGTTAGAATTTCATGTTAATTCTGTTTTAGGATTGGGCACAGCG[GA]GCTTGGTGTCTTGGAA TTAGCCTGCTTCCTAGATGCTCTCCAAACTACAAATTTATGCCT			
63598 I		S	CAAGCAAGGACCGGGGACACTATCTCAATCTGAAC			
63598 P	A	S	CGCGCCGAGGTGCATTCAGGCATAAATTTGY			
63598 P	C	S	ATGACGTGGCAGACGGCATTCAGGCATAAATTTGY			
63598 T	A	S	ACTACAAATTTATGCCTGAATGCATTCAGATTGAGATAGTGTCCCCGGTCCTTGCTTGCT			
63598 T	C	S	ACTACAAATTTATGCCTGAATGCCTTCAGATTGAGATAGTGTCCCCGGTCCTTGCTTGCT			
63598 IS	[AC]		TGTCTTGGAATTAGCCTGCTTCCTAGATGCTCTCCAAACTACAAATTTATGCCTGAATGC[AC]TTCAGATTGAGATAGT GTCCCCGGTCCTTGCTTGCTTTCTATCTGCATTTCTGGCTCTGA	ctg16114	X	
63640 I		A	GGAATGCTACCAAGAACTTAATGTGTAACTTACGAGTTAAAGTGCATAACTCAA			
63640 P	C	A	ATGACGTGGCAGACCGGAAAGTGTGAAAAGCY			
63640 P	T	A	CGCGCCGAGGTGGAAAGTGTGAAAAGCCY			
63640 T	C	A	ATATGGCTTTTCACACTTTCCGTGAGTTATGCACTTTAACTCGTAAGTTACACATTAAGTTCTTGGTAGCATTCCCA			
63640 T	T	A	ATATGGCTTTTCACACTTTCCATGAGTTATGCACTTTAACTCGTAAGTTACACATTAAGTTCTTGGTAGCATTCCCA			
63640 IS	[CT]		TCTTTTGGGAATGCTACCAAGAACTTAATGTGTAACTTACGAGTTAAAGTGCATAACTCA[CT]GGAAAGTGTGAAAAGC CATATACAATTTTATACTTCTGAGAGTCAAGAGGGTTTAGTGAG	ctg832	11	
63723 I		A	GGACTTTAACTTTCCTATTCTGCAGGGGTGTTT			
63723 P	A	A	CGCGCCGAGGACTGTTCTGTAATTTTTAAAGCTCY			
63723 P	C	A	ATGACGTGGCAGACCCTGTTCTGTAATTTTTAAAGCTY			
63723 T	A	A	TACTGAGCTTTAAAAATTACAGAACAGTAACACCCCTGCAGAATAGGAAAGTTAAAGTCCCT			
63723 T	C	A	TACTGAGCTTTAAAAATTACAGAACAGGAACACCCCTGCAGAATAGGAAAGTTAAAGTCCCT			
63723 IS	[AC]		AAAGATTACTAATTGTGTACAATTTAAGGGACTTTAACTTTCCTATTCTGCAGGGGTGTT[AC]CTGTTCTGTAATTTTTA AAGCTCAGTACTTACAGGCAAAATGTTGTATGAAGGAATTTAT	ctg17004	X	
63733 I		A	CAGGTTCAAATGACTGAATGTACTCAGACCTGTTTTCTCATCTGTAAAAAA			
63733 P	T	A	CGCGCCGAGGTGATACTACAATGGGGCTY			
63733 P	C	A	ATGACGTGGCAGACCGATACTACAATGGGGCY			

FIGURE 129D

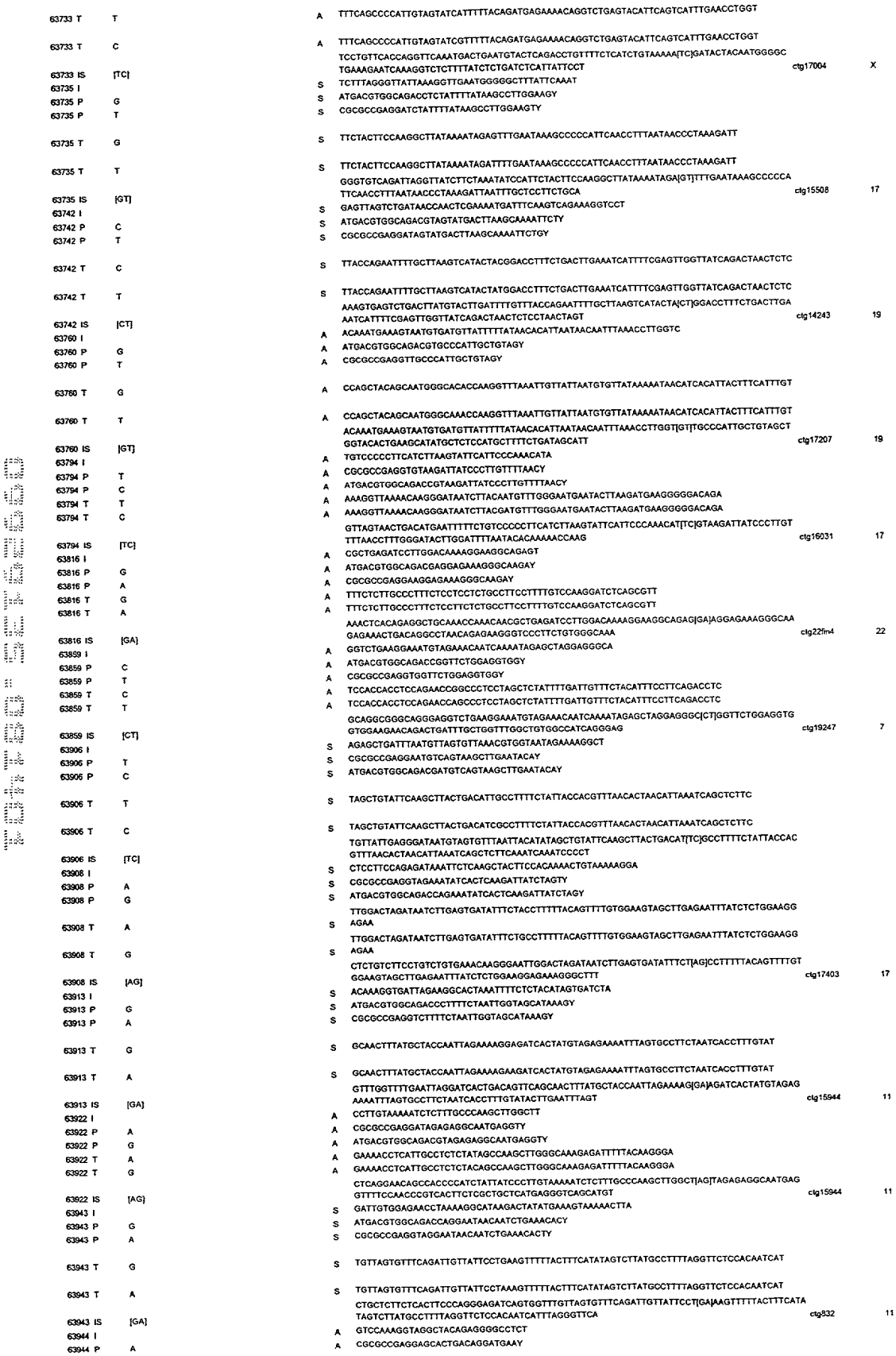

63733 T T A TTTCAGCCCCATTGTAGTATCATTTTTACAGATGAGAAAACAGGTCTGAGTACATTCAGTCATTTGAACCTGGT
63733 T C A TTTCAGCCCCATTGTAGTATCGTTTTTACAGATGAGAAAACAGGTCTGAGTACATTCAGTCATTTGAACCTGGT
TCCTGTTCACCAGGTTCAAATGACTGAATGTACTCAGACCTGTTTTCTCATCTGTAAAAA[TC]GATACTACAATGGGGC
63733 IS [TC] TGAAAGAATCAAAGGTCTCTTTTATCTCTGATCTCATTATTCCT ctg17004 X
63735 I S TCTTTAGGGTTATTAAAGGTTGAATGGGGGCTTTATTCAAAT
63735 P G S ATGACGTGGCAGACCTCTATTTTATAAGCCTTGGAAGY
63735 P T S CGCGCCGAGGATCTATTTTATAAGCCTTGGAAGTY
63735 T G S TTCTACTTCCAAGGCTTATAAAATAGAGTTTGAATAAAGCCCCCATTCAACCTTTAATAACCCTAAAGATT
63735 T T S TTCTACTTCCAAGGCTTATAAAATAGATTTTGAATAAAGCCCCCATTCAACCTTTAATAACCCTAAAGATT
GGGTGTCAGATTAGGTTATCTTCTAAATATCCATTCTACTTCCAAGGCTTATAAAATAGA[GT]TTTGAATAAAGCCCCCA
63735 IS [GT] TTCAACCTTTAATAACCCTAAAGATTAATTTGCTCCTTCTGCA ctg15508 17
63742 I S GAGTTAGTCTGATAACCAACTCGAAAATGATTTCAAGTCAGAAAGGTCCT
63742 P C S ATGACGTGGCAGACGTAGTATGACTTAAGCAAAATTCTY
63742 P T S CGCGCCGAGGATAGTATGACTTAAGCAAAATTCTGY
63742 T C S TTACCAGAATTTTGCTTAAGTCATACTACTACGGACCTTTCTGACTTGAAATCATTTTCGAGTTGGTTATCAGACTAACTCTC
63742 T T S TTACCAGAATTTTGCTTAAGTCATACTATGGACCTTTCTGACTTGAAATCATTTTCGAGTTGGTTATCAGACTAACTCTC
AAAGTGAGTCTGACTTATGTACTTGATTTTGTTTACCAGAATTTTGCTTAAGTCATACTA[CT]GGACCTTTCTGACTTGA
63742 IS [CT] AATCATTTTCGAGTTGGTTATCAGACTAACTCTCCTAACTAGT ctg14243 19
63760 I A ACAAATGAAAGTAATGTGATGTTATTTTTATAACACATTAATAACAATTTAAACCTTGGTC
63760 P G A ATGACGTGGCAGACGTGCCCATTGCTGTAGY
63760 P T A CGCGCCGAGGTTGCCCATTGCTGTAGY
63760 T G A CCAGCTACAGCAATGGGCACACCAAGGTTTAAATTGTTATTAATGTGTTATAAAAATAACATCACATTACTTTCATTTGT
63760 T T A CCAGCTACAGCAATGGGCAAACCAAGGTTTAAATTGTTATTAATGTGTTATAAAAATAACATCACATTACTTTCATTTGT
ACAAATGAAAGTAATGTGATGTTATTTTTATAACACATTAATAACAATTTAAACCTTGGT[GT]TGCCCATTGCTGTAGCT
63760 IS [GT] GGTACACTGAAGCATATGCTCTCCATGCTTTTCTGATAGCATT ctg17207 19
63794 I A TGTCCCCCTTCATCTTAAGTATTCATTCCCCAAACATA
63794 P T A CGCGCCGAGGTGTAAGATTATCCCTTGTTTTAACY
63794 P C A ATGACGTGGCAGACCGTAAGATTATCCCTTGTTTTAACY
63794 T T A AAAGGTTAAAACAAGGGATAATCTTACAATGTTTGGGAATGAATACTTAAGATGAAGGGGGACAGA
63794 T C A AAAGGTTAAAACAAGGGATAATCTTACGATGTTTGGGAATGAATACTTAAGATGAAGGGGGACAGA
GTTAGTAACTGACATGAATTTTTCTGTCCCCCTTCATCTTAAGTATTCATTCCCAAACAT[TC]GTAAGATTATCCCTTGT
63794 IS [TC] TTTAACCTTTGGGATACTTGGATTTTAATACACAAAAACCAAG ctg16031 17
63816 I A CGCTGAGATCCTTGGACAAAAGGAAGGCAGAGT
63816 P G A ATGACGTGGCAGACGAGGAGAAAGGGCAAGAY
63816 P A A CGCGCCGAGGAAGGAGAAAGGGCAAGAY
63816 T G A TTTCTCTTGCCCTTTCTCCTCCTCTGCCTTCCTTTTGTCCAAGGATCTCAGCGTT
63816 T A A TTTCTCTTGCCCTTTCTCCTTCTCTGCCTTCCTTTTGTCCAAGGATCTCAGCGTT
AAACTCACAGAGGCTGCAAACCAAACAACGCTGAGATCCTTGGACAAAAGGAAGGCAGAG[GA]AGGAGAAAGGGCAA
63816 IS [GA] GAGAAACTGACAGGCCTAACAGAGAAGGGTCCCTTCTGTGGGCAAA ctg22fin4 22
63859 I A GGTCTGAAGGAAATGTAGAAACAATCAAAATAGAGCTAGGAGGGCA
63859 P C A ATGACGTGGCAGACCGGTTCTGGAGGTGGY
63859 P T A CGCGCCGAGGTGGTTCTGGAGGTGGY
63859 T C A TCCACCACCTCCAGAACCGGCCCTCCTAGCTCTATTTTGATTGTTTCTACATTTCCTTCAGACCTC
63859 T T A TCCACCACCTCCAGAACCAGCCCTCCTAGCTCTATTTTGATTGTTTCTACATTTCCTTCAGACCTC
GCAGGCGGGCAGGGAGGTCTGAAGGAAATGTAGAAACAATCAAAATAGAGCTAGGAGGGC[CT]GGTTCTGGAGGTG
63859 IS [CT] GTGGAAGAACAGACTGATTTGCTGGTTTGGCTGTGGCCATCAGGGAG ctg19247 7
63906 I S AGAGCTGATTTAATGTTAGTGTTAAACGTGGTAATAGAAAAGGCT
63906 P T S CGCGCCGAGGAATGTCAGTAAGCTTGAATACAY
63906 P C S ATGACGTGGCAGACGATGTCAGTAAGCTTGAATACAY
63906 T T S TAGCTGTATTCAAGCTTACTGACATTGCCTTTTCTATTACCACGTTTAACACTAACATTAAATCAGCTCTTC
63906 T C S TAGCTGTATTCAAGCTTACTGACATCGCCTTTTCTATTACCACGTTTAACACTAACATTAAATCAGCTCTTC
TGTTATTGAGGGATAATGTAGTGTTTAATTACATATAGCTGTATTCAAGCTTACTGACAT[TC]GCCTTTTCTATTACCAC
63906 IS [TC] GTTTAACACTAACATTAAATCAGCTCTTCAAATCAAATCCCCT
63908 I S CTCCTTCCAGAGATAAATTCTCAAGCTACTTCCACAAAACTGTAAAAAGGA
63908 P A S CGCGCCGAGGTAGAAATATCACTCAAGATTATCTAGTY
63908 P G S ATGACGTGGCAGACCAGAAATATCACTCAAGATTATCTAGY
TTGGACTAGATAATCTTGAGTGATATTTCTACCTTTTTACAGTTTTGTGGAAGTAGCTTGAGAATTTATCTCTGGAAGG
63908 T A S AGAA
TTGGACTAGATAATCTTGAGTGATATTTCTGCCTTTTTACAGTTTTGTGGAAGTAGCTTGAGAATTTATCTCTGGAAGG
63908 T G S AGAA
CTCTGTCTTCCTGTCTGTGAAACAAGGGAATTGGACTAGATAATCTTGAGTGATATTTCT[AG]CCTTTTTACAGTTTTGT
63908 IS [AG] GGAAGTAGCTTGAGAATTTATCTCTGGAAGGAGAAAGGGCTTT ctg17403 17
63913 I S ACAAAGGTGATTAGAAGGCACTAAATTTTCTCTACATAGTGATCTA
63913 P G S ATGACGTGGCAGACCCTTTTCTAATTGGTAGCATAAAGY
63913 P A S CGCGCCGAGGTCTTTTCTAATTGGTAGCATAAAGY
63913 T G S GCAACTTTATGCTACCAATTAGAAAAGGAGATCACTATGTAGAGAAAATTTAGTGCCTTCTAATCACCTTTGTAT
63913 T A S GCAACTTTATGCTACCAATTAGAAAAGAAGATCACTATGTAGAGAAAATTTAGTGCCTTCTAATCACCTTTGTAT
GTTTGGTTTTGAATTAGGATCACTGACAGTTCAGCAACTTTATGCTACCAATTAGAAAAG[GA]AGATCACTATGTAGAG
63913 IS [GA] AAAATTTAGTGCCTTCTAATCACCTTTGTATACTTGAATTTAGT ctg15944 11
63922 I A CCTTGTAAAAATCTCTTTGCCCAAGCTTGGCTT
63922 P A A CGCGCCGAGGATAGAGAGGCAATGAGGTY
63922 P G A ATGACGTGGCAGACGTAGAGAGGCAATGAGGTY
63922 T A A GAAAACCTCATTGCCTCTCTATAGCCAAGCTTGGGCAAAGAGATTTTTACAAGGGA
63922 T G A GAAAACCTCATTGCCTCTCTACAGCCAAGCTTGGGCAAAGAGATTTTTACAAGGGA
CTCAGGAACAGCCACCCCATCTATTATCCCTTGTAAAAATCTCTTTGCCCAAGCTTGGCT[AG]TAGAGAGGCAATGAG
63922 IS [AG] GTTTTCCAACCCGTCACTTCTCGCTGCTCATGAGGGTCAGCATGT ctg15944 11
63943 I S GATTGTGGAGAACCTAAAAGGCATAAGACTATATGAAAGTAAAAACTTA
63943 P G S ATGACGTGGCAGACCAGGAATAACAATCTGAAACACY
63943 P A S CGCGCCGAGGTAGGAATAACAATCTGAAACACTY
63943 T G S TGTTAGTGTTTCAGATTGTTATTCCTGAAGTTTTTACTTTCATATAGTCTTATGCCTTTTAGGTTCTCCACAATCAT
63943 T A S TGTTAGTGTTTCAGATTGTTATTCCTAAAGTTTTTACTTTCATATAGTCTTATGCCTTTTAGGTTCTCCACAATCAT
CTGCTCTTCTCACTTCCCAGGGAGATCAGTGGTTTGTTAGTGTTTCAGATTGTTATTCCT[GA]AAGTTTTTACTTTCATA
63943 IS [GA] TAGTCTTATGCCTTTTAGGTTCTCCACAATCATTTAGGGTTCA ctg832 11
63944 I A GTCCAAAGGTAGGCTACAGAGGGGCCTCT
63944 P A A CGCGCCGAGGAGCACTGACAGGATGAAY

FIGURE 129D

63944	P	G	A	ATGACGTGGCAGACGGCACTGACAGGATGAY		
63944	T	A	A	GTGCTTCATCCTGTCAGTGCTGAGGCCCCTCTGTAGCCTACCTTTGGACCT		
63944	T	G	A	GTGCTTCATCCTGTCAGTGCCGAGGCCCCTCTGTAGCCTACCTTTGGACCT		
63944	IS	[AG]		CAGACCACCTGGGAACTTTTAACTAATGCCAGGTCCAAAGGTAGGCTACAGAGGGGCCTC[AG]GCACTGACAGGATG AAGCACGATGATGGCTGCGTGTACCACATAAGGTAGAAGCCGTGTG	ctg832	11
63966	I		A	AGGAACATGCCATGTTCCAGAAAATGTCATGTGGGAATAA		
63966	P	T	A	CGCGCCGAGGTGGAAGCACTACGATATCTY		
63966	P	C	A	ATGACGTGGCAGACCGGAAGCACTACGATATCY		
63966	T	T	A	TTTAAGATATCGTAGTGCTTCCATATTCCCACATGACATTTTCTGGAACATGGCATGTTCCTTT		
63966	T	C	A	TTTAAGATATCGTAGTGCTTCCGTATTCCCACATGACATTTTCTGGAACATGGCATGTTCCTTT		
63966	IS	[TC]		AAAAAATGGTCTGTAGGCCAAAGGAACATGCCATGTTCCAGAAAATGTCATGTGGGAATA[TC]GGAAGCACTACGATA TCTTAAACTATTTAAATTCAAAGAAAAAGATTTAGGAATCTAAGA	ctg25002	17
63977	I		S	CCATCAGCTCTGAGCTTCCATGCATACACT		
63977	P	C	S	ATGACGTGGCAGACGTGACCAAGAATCCTCTTACY		
63977	P	T	S	CGCGCCGAGGATGACCAAGAATCCTCTTACY		
63977	T	C	S	GCTAGTAAGAGGATTCTTGGTCACGTGTATGCATGGAAGCTCAGAGCTGATGGAA		
63977	T	T	S	GCTAGTAAGAGGATTCTTGGTCATGTGTATGCATGGAAGCTCAGAGCTGATGGAA		
63977	IS	[CT]		AGCCTACTAAGTACAAGCAAGTTCTTTATATCTAAACGCTAGTAAGAGGATTCTTGGTCA[CT]GTGTATGCATGGAAGC TCAGAGCTGATGGAAATATTAGCAAGCTTTGATAATTTTGTTTA	ctg25002	17
64010	I		S	CCGGAAGGCTGGGAGGATTGAGACCTT		
64010	P	C	S	ATGACGTGGCAGACGTATCTGAATCAAGTCGTATGGY		
64010	P	G	S	CGCGCCGAGGCTATCTGAATCAAGTCGTATGGY		
64010	T	C	S	TTTTCCATACGACTTGATTCAGATACAGGTCTCAATCCTCCCAGCCTTCCGGCT		
64010	T	G	S	TTTTCCATACGACTTGATTCAGATAGAGGTCTCAATCCTCCCAGCCTTCCGGCT		
64010	IS	[CG]		CTTGTCTTTTCTCATTAAGCCCCATCTTCAATCCCTTTTCCATACGACTTGATTCAGATA[CG]AGGTCTCAATCCTCCCA GCCTTCCGGCTCTTGAGGGCATTTCAGCAGGGTTTGAACACAG	ctg25002	17
64021	I		A	CTTTTTCTGGTAGTCTCTTGCTGAAATATCAACATAACTCTCAATT		
64021	P	G	A	ATGACGTGGCAGACGCAGAACAAGAAAGCTTAAGY		
64021	P	A	A	CGCGCCGAGGACAGAACAAGAAAGCTTAAGGY		
64021	T	G	A	TCAGCCTTAAGCTTTCTTGTTCTGCATTGAGAGTTATGTTGATATTTCAGCAAGAGACTACCAGAAAAAGTC		
64021	T	A	A	TCAGCCTTAAGCTTTCTTGTTCTGTATTGAGAGTTATGTTGATATTTCAGCAAGAGACTACCAGAAAAAGTC		
64021	IS	[GA]		CTGAACAATTAATGACTTTTTCTGGTAGTCTCTTGCTGAAATATCAACATAACTCTCAAT[GA]CAGAACAAGAAAGCTTA AGGCTGAATCCAAAAATAATACACTATAGAAAATAGCAACCAA	ctg17207	19
64142	I		A	GCTGTCAGGGCTACATTGGTGAAATGTATTCTCTGACATGA		
64142	P	T	A	CGCGCCGAGGTCTGGGAAAATAAATTCTCACTY		
64142	P	C	A	ATGACGTGGCAGACCCTGGGAAAATAAATTCTCACY		
64142	T	T	A	TTATAGTGAGAATTTATTTTCCCAGACATGTCAGAGAATACATTTCACCAATGTAGCCCTGACAGCAA		
64142	T	C	A	TTATAGTGAGAATTTATTTTCCCAGGCATGTCAGAGAATACATTTCACCAATGTAGCCCTGACAGCAA		
64142	IS	[TC]		GTCCCTGAGGACCAGCCTTTGCTGTCAGGGCTACATTGGTGAAATGTATTCTCTGACATG[TC]CTGGGAAAATAAATT CTCACTATAAATTAAAATTACTATTGATTATCTTGCTCATCAGTA	ctg2845	11
64388	I		A	GGAAACGCATGTGTGCAGGAGAAGAGCCTAAT		
64388	P	A	A	CGCGCCGAGGAGGCAGTGTGTGACTY		
64388	P	G	A	ATGACGTGGCAGACGGGCAGTGTGTGACTY		
64388	T	A	A	TGCCAGTCACACACTGCCTTTAGGCTCTTCTCCTGCACACATGCGTTTCCAT		
64388	T	G	A	TGCCAGTCACACACTGCCCTTAGGCTCTTCTCCTGCACACATGCGTTTCCAT		
64388	IS	[AG]		ATGGGGCACAATGAGAACAAGTTGATGATGGAAACGCATGTGTGCAGGAGAAGAGCCTAA[AG]GGCAGTGTGTGACT GGCAACCTCTTTACTCTCCAAATGCAAATGAAGCAATCCAGCCCTC		
64407	I		A	CTCTAATAGGGCATGAACAGAACGAGAACAGGTTTATTTTATTTTTAAATGCCAATC		
64407	P	A	A	CGCGCCGAGGAGTGCCATTAGGAGTCATY		
64407	P	T	A	ATGACGTGGCAGACTGTGCCATTAGGAGTCAY		
64407	T	A	A	AAGAATGACTCCTAATGGCACTATTGGCATTTAAAAATAAAATAAACCTGTTCTCGTTCTGTTCATGCCCTATTAGAGAA		
64407	T	T	A	AAGAATGACTCCTAATGGCACAATTGGCATTTAAAAATAAAATAAACCTGTTCTCGTTCTGTTCATGCCCTATTAGAGAA		
64407	IS	[AT]		CGTTCTCTAATAGGGCATGAACAGAACGAGAACAGGTTTATTTTATTTTTAAATGCCAAT[AT]GTGCCATTAGGAGTCA TTCTTCTTTCCCTTAGTCGTATAAATCCCCTATTATTTGGTGAT	ctg3461	17
64410	I		S	TGTGATTCAGAACATCTGTTCGGAGTATTGGCTGTGGC		
64410	P	A	S	CGCGCCGAGGTGGGAGGGAATACCTGY		
64410	P	C	S	ATGACGTGGCAGACGGGGAGGGAATACCTGY		
64410	T	A	S	TGTCCAGGTATTCCCTCCCACCACAGCCAATACTCCGAACAGATGTTCTGAATCACACA		
64410	T	C	S	TGTCCAGGTATTCCCTCCCCCCACAGCCAATACTCCGAACAGATGTTCTGAATCACACA		
64410	IS	[AC]		AGATGCCTGTTGGGCTGTCTTGTTCCTCACCTCAAGTGGCTTGTCCAGGTATTCCCTCCC[AC]CCACAGCCAATACTC CGAACAGATGTTCTGAATCACACAGTTTTCTCTCCACCTCTTTAT	ctg15140	12
64444	I		A	TTTGAAAAGAAGGAGCAGGAATGGTAGAGGGCAAGAAT		
64444	P	G	A	ATGACGTGGCAGACGGTGTCAGCTGTGTCTY		
64444	P	A	A	CGCGCCGAGGAGTGTCAGCTGTGTCTY		
64444	T	G	A	TTACAGACACAGCTGACACCTTCTTGCCCTCTACCATTCCTGCTCCTTCTTTTCAAACA		
64444	T	A	A	TTACAGACACAGCTGACACTTTCTTGCCCTCTACCATTCCTGCTCCTTCTTTTCAAACA		
64444	IS	[GA]		CACTAAATGAAGTTGGAGTTGTGTTTGAAAAGAAGGAGCAGGAATGGTAGAGGGCAAGAA[GA]GTGTCAGCTGTGTCT GTAATACTTTATTTTCTGGAATGAGATCTGAAGCACGTGGGAAAA	ctg15944	11
64471	I		S	GAGCTTGTAACTAAAGAAGTGGCCTACTAAGCCATCAGAGAAT		
64471	P	T	S	CGCGCCGAGGAGTAAGAACCAGGCAGTAY		
64471	P	C	S	ATGACGTGGCAGACGGTAAGAACCAGGCAGTY		
64471	T	T	S	ACAGTACTGCCTGGTTCTTACTTTCTCTGATGGCTTAGTAGGCCACTTCTTTAGTTACAAGCTCAA		
64471	T	C	S	ACAGTACTGCCTGGTTCTTACCTTCTCTGATGGCTTAGTAGGCCACTTCTTTAGTTACAAGCTCAA		
64471	IS	[TC]		TTTAAACCTACTCTCTTATAAGATTACATGTTGTCTTGTACAGTACTGCCTGGTTCTTAC[TC]TTCTCTGATGGCTTAGT AGGCCACTTCTTTAGTTACAAGCTCAAGGCAAGGCATGAAGGA	ctg15944	11
64526	I		A	GTCCAGCATATATTTTTAAATATTGATTCACCAATATATTGGTTTTAATAGCCCTT		
64526	P	A	A	CGCGCCGAGGACGTCACCTTCAGTTTGY		
64526	P	G	A	ATGACGTGGCAGACGCGTCACCTTCAGTTTGY		
64526	T	A	A	ACTACAAACTGAAGGTGACGTAGGGCTATTAAAACCAATATATTGGTGAATCAATATTTAAAAATATATGCTGGACTT		
64526	T	G	A	ACTACAAACTGAAGGTGACGCAGGGCTATTAAAACCAATATATTGGTGAATCAATATTTAAAAATATATGCTGGACTT		
64526	IS	[AG]		TAAAAGTCCAGCATATATTTTTAAATATTGATTCACCAATATATTGGTTTTAATAGCCCT[AG]CGTCACCTTCAGTTTGTA GTCGAGTTCATGTTCAAATGGGCTACAACATATATGTACTTT	ctg15944	11
64566	I		A	CATCCAGGTTAATCAGACATGGCCTACAGGT		
64566	P	G	A	ATGACGTGGCAGACGAAGGGACCTAAGTGTGGY		
64566	P	A	A	CGCGCCGAGGAAAGGGACCTAAGTGTGGY		
64566	T	G	A	ATGCCCACACTTAGGTCCCTTCCCTGTAGGCCATGTCTGATTAACCTGGATGCT		
64566	T	A	A	ATGCCCACACTTAGGTCCCTTTCCTGTAGGCCATGTCTGATTAACCTGGATGCT		
64566	IS	[GA]		AGTCCACTCTGAGTGAAAATACTATAAAAGCATCCAGGTTAATCAGACATGGCCTACAGG[GA]AAGGGACCTAAGTGT GGGCATGATATGAAGAGGCAGGCTTCCAAACACAGAGCTTCTGAG	ctg15064	7
64598	I		S	TGGAGGGGCCCACAGAGGGCTT		
64598	P	T	S	CGCGCCGAGGATCCATCCCAGGCCY		

FIGURE 129D

64598 P	C	S	ATGACGTGGCAGACGTCCATCCCAGGCCY				
64598 T	T	S	AGGGGGCCTGGGATGGATAGCCCTCTGTGGGCCCCTCCACT				
64598 T	C	S	AGGGGGCCTGGGATGGACAGCCCTCTGTGGGCCCCTCCACT				
64598 IS	[TC]		TGAAGCCTTCAGGGGAGGCAGAACTAGGAGGGCCCCTGGAAGTCAGGGGGCCTGGGATGGA[TC]AGCCCTCTGTGGG CCCCTCCACTGGGATTCCCAGAGGCCTTGCCCCTATTAGTGCCGGGG	ctg15064	7		
64599 I		A	GCCTGCAATGTGACAAGACGTTCGTGGCT				
64599 P	G	A	ATGACGTGGCAGACGTCCTGGGACCTCAAGY				
64599 P	A	A	CGCGCCGAGGATCCTGGGACCTCAAGY				
64599 T	G	A	GCCGCTTGAGGTCCCAGGACGCCACGAACGTCTTGTCACATTGCAGGCAC				
64599 T	A	A	GCCGCTTGAGGTCCCAGGATGCCACGAACGTCTTGTCACATTGCAGGCAC				
64599 IS	[GA]		GCGTGTGCACACAGGCGACCGGCCGTTCAAGTGCCTGCAATGTGACAAGACGTTCGTGGC[GA]TCCTGGGACCTCAA GCGGCACGCGCTGGTGCACTCTGGCCAGCGGCCCTTCCGCTGTGAG	ctg15907	6	FLJ13479	
64620 I		S	AAGGCTGGAAACAGTTATGAGTGACCACATCTTATATTTTAATAATATAATATTCTA				
64620 P	G	S	ATGACGTGGCAGACCATTTTTCAAAGTTAGTGTTTTGTAY				
64620 P	A	S	CGCGCCGAGGTATTTTTCAAAGTTAGTGTTTTGTACY				
64620 T	G	S	ATGGGTACAAAACACTAACTTTGAAAAATGAGAATATTATATTATTAAAATATAAGATGTGGTCACTCATAACTGTTTCC AGCCTTGC				
64620 T	A	S	ATGGGTACAAAACACTAACTTTGAAAAATAAGAATATTATATTATTAAAATATAAGATGTGGTCACTCATAACTGTTTCCA GCCTTGC				
64620 IS	[GA]		AATGATATCTGTCTTAAAACTGAATGAGATAATGGGTACAAAACACTAACTTTGAAAAAT[GA]AGAATATTATATTATTAA AATATAAGATGTGGTCACTCATAACTGTTTCCAGCCTTGCAG	ctg15907	6		
64677 I		A	ACAAGGATAAATCTTAAAAACATTGTGTCATGGGAGATAAAAAACAGAATAATACA				
64677 P	C	A	ATGACGTGGCAGACCATAACATCTATGCAAATTTAAAATACCY				
64677 P	T	A	CGCGCCGAGGTATAACATCTATGCAAATTTAAAATACCY				
64677 T	C	A	TGCAGGTATTTTAAATTTGCATAGATGTTATGGTATTATTCTGTTTTTTATCTCCCATGACACAATGTTTTTAAGATTTAT CCTTGTTG				
64677 T	T	A	TGCAGGTATTTTAAATTTGCATAGATGTTATAGTATTATTCTGTTTTTTATCTCCCATGACACAATGTTTTTAAGATTTAT CCTTGTTG				
64677 IS	[CT]		TAGCAACAAGGATAAATCTTAAAAACATTGTGTCATGGGAGATAAAAAACAGAATAATAC[CT]ATAACATCTATGCAAAT TTAAAATACCTGCATACCAACAACATACATATTTTACAAGAGT	ctg13206	14		
64701 I		S	CCATCTGCAGCCAGAGAAGAGCATGTCACCC				
64701 P	A	S	CGCGCCGAGGTTTCATTCATTCAGCATTTTAGGY				
64701 P	T	S	ATGACGTGGCAGACATTCATTCATTCAGCATTTTAGGY				
64701 T	A	S	AGACCCTAAAATGCTGAATGAATGAAAGGTGACATGCTCTTCTCTGGCTGCAGATGGCA				
64701 T	T	S	AGACCCTAAAATGCTGAATGAATGAATGGTGACATGCTCTTCTCTGGCTGCAGATGGCA				
64701 IS	[AT]		CTGTATTCACTAATATATTTATGATACCTAGAACAGACCCTAAAATGCTGAATGAATGAA[AT]GGTGACATGCTCTTCTC TGGCTGCAGATGGCAGACCTGCATGCCGTCCCAAGGGGCATGT	ctg13206	14		
64705 I		S	CTCACCTGTGAGCTCCCACCTCCCTT				
64705 P	T	S	CGCGCCGAGGACCTAACACATGGGAGTY				
64705 P	C	S	ATGACGTGGCAGACGCCTAACACATGGGAGTY				
64705 T	T	S	GTACACTCCCATGTGTTAGGTAGGGAGGTGGGAGCTCACAGGTGAGGG				
64705 T	C	S	GTACACTCCCATGTGTTAGGCAGGGAGGTGGGAGCTCACAGGTGAGGG				
64705 IS	[TC]		CCTGGCAGGAACAGATGCAGTCTTGGGAGAGGAAAATAAAGTACACTCCCATGTGTTAGG[TC]AGGGAGGTGGGAGC TCACAGGTGAGGGAAATTGGAGCGAGCTGGGCTGCACTGCAGCACC	ctg25099	7		
64714 I		A	CACAAAAGACCTGCCATGCCAGTCTGGCA				
64714 P	C	A	ATGACGTGGCAGACCTCTTTCTCCACCTGTTTCY				
64714 P	T	A	CGCGCCGAGGTTCTTTCTCCACCTGTTTCY				
64714 T	C	A	CCGGGAAACAGGTGGAGAAAGAGGCCAGACTGGCATGGCAGGTCTTTTGTGCC				
64714 T	T	A	CCGGGAAACAGGTGGAGAAAGAAGCCAGACTGGCATGGCAGGTCTTTTGTGCC				
64714 IS	[CT]		TTCTGAGCTTGAGTTGCAGGTGATAATGTTGGCACAAAAGACCTGCCATGCCAGTCTGGC[CT]TCTTTCTCCACCTGT TTCCCGGTGAAGGAGCCAGGACCTGGCCTGCGAGTCTGTCCTGTT	ctg22fin4	22		
64748 I		S	CACAAAACTGGTGCCAGTACTTAGACTGATTGATAAATGATGTAAGAAAATACTTCAAT				
64748 P	G	S	ATGACGTGGCAGACCTGTGGTATATCCTCTACTGTY				
64748 P	T	S	CGCGCCGAGGATGTGGTATATCCTCTACTGTY				
64748 T	G	S	CCAAACAGTAGAGGATATACCACAGTTGAAGTATTTTCTTACATCATTTATCAATCAGTCTAAGTACTGGCACCAGTTTT GTGCC				
64748 T	T	S	CCAAACAGTAGAGGATATACCACATTTGAAGTATTTTCTTACATCATTTATCAATCAGTCTAAGTACTGGCACCAGTTTT GTGCC				
64748 IS	[GT]		CTTTACTAAAGTCTAATAAAATTATCCCAATCCTTTCCAAACAGTAGAGGATATACCACA[GT]TTGAAGTATTTTCTTACA TCATTTATCAATCAGTCTAAGTACTGGCACCAGTTTTGTGCC				
64811 I		S	CTTTCCCTACAGGGAAACCCCAACACCCTC				
64811 P	C	S	ATGACGTGGCAGACGGTGCATCCTGTGAACY				
64811 P	A	S	CGCGCCGAGGTGTGCATCCTGTGAACTY				
64811 T	C	S	AGGGAGTTCACAGGATGCACCAGGGTGTTGGGGTTTCCCTGTAGGGAAAGGG				
64811 T	A	S	AGGGAGTTCACAGGATGCACAAGGGTGTTGGGGTTTCCCTGTAGGGAAAGGG				
64811 IS	[CA]		AGGGGAAAGCAGACTGTTCGGTGCTGAGGGAGATAGAAACAGGGAGTTCACAGGATGCAC[CA]AGGGTGTTGGGGT TTCCCTGTAGGGAAAGGGCTGGCCAGGGAGAGGGAGGGGTGGAGCTT				
64832 I		A	CAGTCTGTAAAAACTGTAAATGCTATTTTATTTTAAACATTTTAGTTTACAAAAAAAAAAT				
64832 P	A	A	CGCGCCGAGGAAAATCAATGATTGGTACCTTTTY				
64832 P	G	A	ATGACGTGGCAGACGAAATCAATGATTGGTACCTTTTY				
64832 T	A	A	GTAAAAAAGGTACCAATCATTGATTTTTTTTTTTTTGTAAACTAAAATGTTTAAAATAAAATAGCATTTACAGTTTTTACA GACTG				
64832 T	G	A	GTAAAAAAGGTACCAATCATTGATTTCTTTTTTTTTGTAAACTAAAATGTTTAAAATAAAATAGCATTTACAGTTTTTAC AGACTG				
64832 IS	[AG]		CAGTCTGTAAAAACTGTAAATGCTATTTTATTTTAAACATTTTAGTTTACAAAAAAAAAA[AG]AAATCAATGATTGGTACC TTTTTTACACTCTCAGATTCCTGAATATGGACAGATCTTCAA	ctg18433	19		
64834 I		S	GGAGTCCCGGATCCAGCACCTGCT				
64834 P	T	S	CGCGCCGAGGAGGCAAAGGCAGGAY				
64834 P	C	S	ATGACGTGGCAGACGGGCAAAGGCAGGAY				
64834 T	T	S	GCCCTCCTGCCTTTGCCTGCAGGTGCTGGATCCGGGACTCCCT				
64834 T	C	S	GCCCTCCTGCCTTTGCCCGCAGGTGCTGGATCCGGGACTCCCT				
64834 IS	[TC]		AACCACAGCCCAGGAAATGCTGCCCGTGCTGGCCACACGCTGAGCCCTCCTGCCTTTGCC[TC]GCAGGTGCTGGATC CGGGACTCCCTGGTCAGCTACATCACCAACCTGGGCCTCTTCAGCC	ctg18433	19		
64866 I		A	CCAAACACCTCGTTGAGAGTGTGTGCAACTTCTT				
64866 P	C	A	CGCGCCGAGGCTACCACCGAAGTTGCY				
64866 P	G	A	ATGACGTGGCAGACGTACCACCGAAGTTGCY				
64866 T	C	A	GGTGGCAACTTCGGTGGTAGAGAAGTTGCACACACTCTCAACGAGGTGTTTGGGT				
64866 T	G	A	GGTGGCAACTTCGGTGGTACAGAAGTTGCACACACTCTCAACGAGGTGTTTGGGT				
64866 IS	[CG]		TGAATGAAGATTTAAGTGCTTTAGGACCCAAACACCTCGTTGAGAGTGTGTGCAACTTCT[CG]TACCACCGAAGTTGC CACCACGACCCCAGTTAACCACCACGTGCAAATAAAACACCAAAA	ctg_na	NA		
64960 I		A	GAGCATATGAACACCACATATATTTTGGGAGCCCTCCTTTTTTTTA				
64960 P	T	A	CGCGCCGAGGTCCCAAAGAAATAATGGAAAATTATY				
64960 P	C	A	ATGACGTGGCAGACCCCCAAAGAAATAATGGAAAATY				
64960 T	T	A	CTTCATAATTTTCCATTATTTCTTTGGGAAAAAAAAAGGAGGGCTCCCAAAATATATGTGGTGTTCATATGCTCTC				
64960 T	C	A	CTTCATAATTTTCCATTATTTCTTTGGGAAAAAAAAAGGAGGGCTCCCAAAATATATGTGGTGTTCATATGCTCTC				
64960 IS	[TC]		TCTTCTATACTCTGAGAGCATATGAACACCACATATATTTTGGGAGCCCTCCTTTTTTTTT[TC]CCCAAAGAAATAATGGA AAATTATGAAGCAGAATATTACTGCTGTAGTTCAGCTATGTTA	ctg_na	NA		

FIGURE 129D

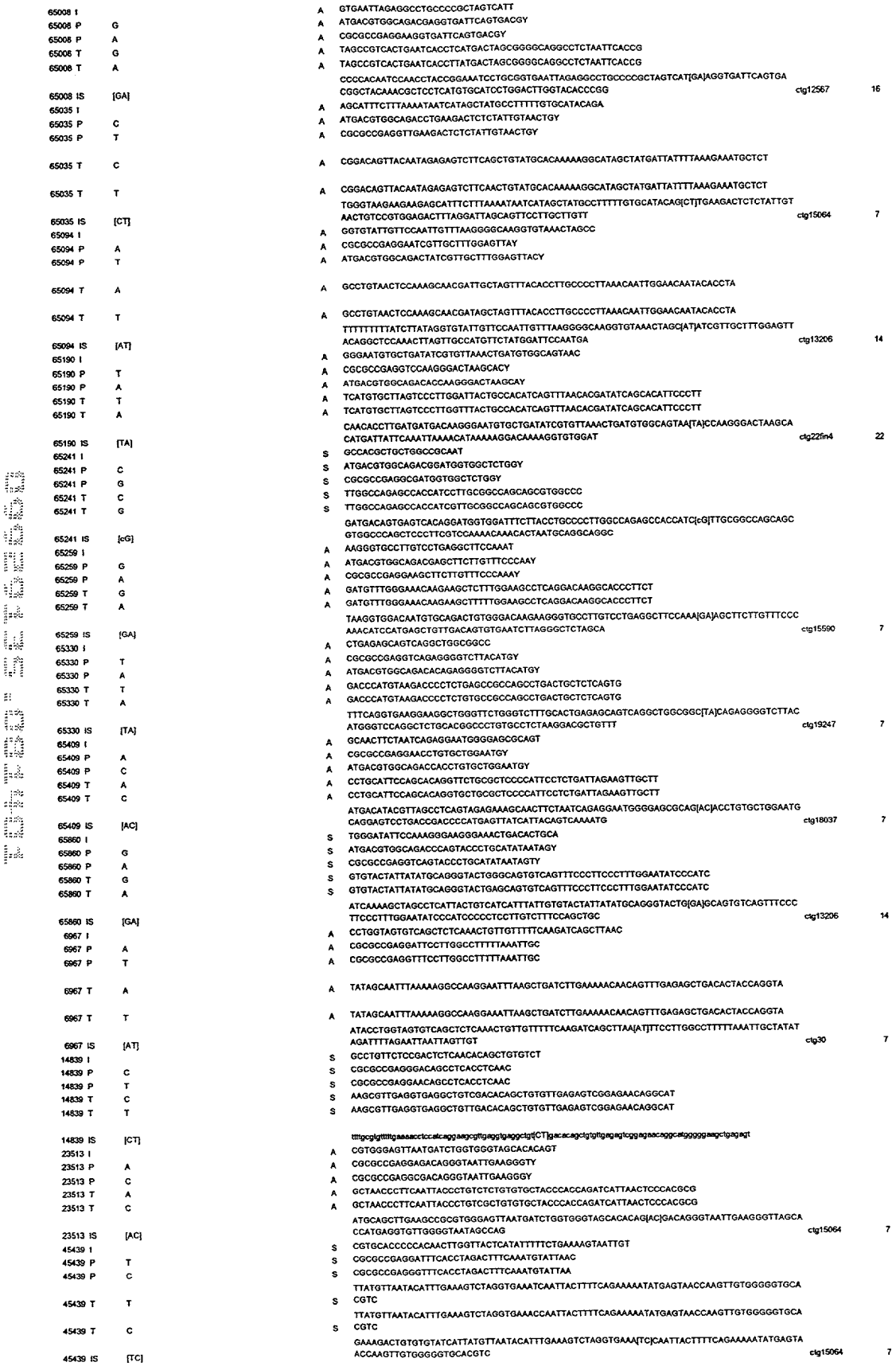

65008 I A GTGAATTAGAGGCCTGCCCCGCTAGTCATT
65008 P G A ATGACGTGGCAGACGAGGTGATTCAGTGACGY
65008 P A A CGCGCCGAGGAAGGTGATTCAGTGACGY
65008 T G A TAGCCGTCACTGAATCACCTCATGACTAGCGGGGCAGGCCTCTAATTCACCG
65008 T A A TAGCCGTCACTGAATCACCTTATGACTAGCGGGGCAGGCCTCTAATTCACCG
65008 IS [GA] CCCCACAATCCAACCTACCGGAAATCCTGCGGTGAATTAGAGGCCTGCCCCGCTAGTCAT[GA]AGGTGATTCAGTGA
CGGCTACAAACGCTCCTCATGTGCATCCTGGACTTGGTACACCCGG ctg12567 16
65035 I A AGCATTTCTTTAAAATAATCATAGCTATGCCTTTTTGTGCATACAGA
65035 P C A ATGACGTGGCAGACCTGAAGACTCTCTATTGTAACTGY
65035 P T A CGCGCCGAGGTTGAAGACTCTCTATTGTAACTGY
65035 T C A CGGACAGTTACAATAGAGAGTCTTCAGCTGTATGCACAAAAAGGCATAGCTATGATTATTTTAAAGAAATGCTCT
65035 T T A CGGACAGTTACAATAGAGAGTCTTCAACTGTATGCACAAAAAGGCATAGCTATGATTATTTTAAAGAAATGCTCT
65035 IS [CT] TGGGTAAGAAGAAGAGCATTTCTTTAAAATAATCATAGCTATGCCTTTTTGTGCATACAG[CT]TGAAGACTCTCTATTGT
AACTGTCCGTGGAGACTTTAGGATTAGCAGTTCCTTGCTTGTT ctg15064 7
65094 I A GGTGTATTGTTCCAATTGTTTAAGGGGCAAGGTGTAAACTAGCC
65094 P A A CGCGCCGAGGAATCGTTGCTTTGGAGTTAY
65094 P T A ATGACGTGGCAGACTATCGTTGCTTTGGAGTTACY
65094 T A A GCCTGTAACTCCAAAGCAACGATTGCTAGTTTACACCTTGCCCCTTAAACAATTGGAACAATACACCTA
65094 T T A GCCTGTAACTCCAAAGCAACGATAGCTAGTTTACACCTTGCCCCTTAAACAATTGGAACAATACACCTA
65094 IS [AT] TTTTTTTTATCTTATAGGTGTATTGTTCCAATTGTTTAAGGGGCAAGGTGTAAACTAGC[AT]ATCGTTGCTTTGGAGTT
ACAGGCTCCAAACTTAGTTGCCATGTTCTATGGATTCCAATGA ctg13206 14
65190 I A GGGAATGTGCTGATATCGTGTTAAACTGATGTGGCAGTAAC
65190 P T A CGCGCCGAGGTCCAAGGGACTAAGCAY
65190 P A A ATGACGTGGCAGACACCAAGGGACTAAGCAY
65190 T T A TCATGTGCTTAGTCCCTTGGATTACTGCCACATCAGTTTAACACGATATCAGCACATTCCCTT
65190 T A A TCATGTGCTTAGTCCCTTGGTTTACTGCCACATCAGTTTAACACGATATCAGCACATTCCCTT
65190 IS [TA] CAACACCTTGATGATGACAAGGGAATGTGCTGATATCGTGTTAAACTGATGTGGCAGTAA[TA]CCAAGGGACTAAGCA
CATGATTATTCAAATTAAAACATAAAAAGGACAAAAGGTGTGGAT ctg22fin4 22
65241 I S GCCACGCTGCTGGCCGCAAT
65241 P C S ATGACGTGGCAGACGGATGGTGGCTCTGGY
65241 P G S CGCGCCGAGGCGATGGTGGCTCTGGY
65241 T C S TTGGCCAGAGCCACCATCCTTGCGGCCAGCAGCGTGGCCC
65241 T G S TTGGCCAGAGCCACCATCGTTGCGGCCAGCAGCGTGGCCC
65241 IS [cG] GATGACAGTGAGTCACAGGATGGTGGATTTCTTACCTGCCCCTTGGCCAGAGCCACCATC[cG]TTGCGGCCAGCAGC
GTGGCCCAGCTCCCTTCGTCCAAAACAAACACTAATGCAGGCAGGC
65259 I A AAGGGTGCCTTGTCCTGAGGCTTCCAAAT
65259 P G A ATGACGTGGCAGACGAGCTTCTTGTTTCCCAAY
65259 P A A CGCGCCGAGGAAGCTTCTTGTTTCCCAAAY
65259 T G A GATGTTTGGGAAACAAGAAGCTCTTTGGAAGCCTCAGGACAAGGCACCCTTCT
65259 T A A GATGTTTGGGAAACAAGAAGCTTTTTGGAAGCCTCAGGACAAGGCACCCTTCT
65259 IS [GA] TAAGGTGGACAATGTGCAGACTGTGGGACAAGAAGGGTGCCTTGTCCTGAGGCTTCCAAA[GA]AGCTTCTTGTTTCCC
AAACATCCATGAGCTGTTGACAGTGTGAATCTTAGGGCTCTAGCA ctg15590 7
65330 I A CTGAGAGCAGTCAGGCTGGCGGCC
65330 P T A CGCGCCGAGGTCAGAGGGGTCTTACATGY
65330 P A A ATGACGTGGCAGACACAGAGGGGTCTTACATGY
65330 T T A GACCCATGTAAGACCCCTCTGAGCCGCCAGCCTGACTGCTCTCAGTG
65330 T A A GACCCATGTAAGACCCCTCTGTGCCGCCAGCCTGACTGCTCTCAGTG
65330 IS [TA] TTTCAGGTGAAGGAAGGCTGGGTTCTGGGTCTTTGCACTGAGAGCAGTCAGGCTGGCGGC[TA]CAGAGGGGTCTTAC
ATGGGTCCAGGCTCTGCACGGCCCTGTGCCTCTAAGGACGCTGTTT ctg19247 7
65409 I A GCAACTTCTAATCAGAGGAATGGGGAGCGCAGT
65409 P A A CGCGCCGAGGAACCTGTGCTGGAATGY
65409 P C A ATGACGTGGCAGACCACCTGTGCTGGAATGY
65409 T A A CCTGCATTCCAGCACAGGTTCTGCGCTCCCCATTCCTCTGATTAGAAGTTGCTT
65409 T C A CCTGCATTCCAGCACAGGTGCTGCGCTCCCCATTCCTCTGATTAGAAGTTGCTT
65409 IS [AC] ATGACATACGTTAGCCTCAGTAGAGAAAGCAACTTCTAATCAGAGGAATGGGGAGCGCAG[AC]ACCTGTGCTGGAATG
CAGGAGTCCTGACCGACCCCATGAGTTATCATTACAGTCAAAATG ctg18037 7
65860 I S TGGGATATTCCAAAGGGAAGGGAAACTGACACTGCA
65860 P G S ATGACGTGGCAGACCCAGTACCCTGCATATAATAGY
65860 P A S CGCGCCGAGGTCAGTACCCTGCATATAATAGTY
65860 T G S GTGTACTATTATATGCAGGGTACTGGGCAGTGTCAGTTTCCCTTCCCTTTGGAATATCCCATC
65860 T A S GTGTACTATTATATGCAGGGTACTGAGCAGTGTCAGTTTCCCTTCCCTTTGGAATATCCCATC
65860 IS [GA] ATCAAAAGCTAGCCTCATTACTGTCATCATTTATTGTGTACTATTATATGCAGGGTACTG[GA]GCAGTGTCAGTTTCCC
TTCCCTTTGGAATATCCCATCCCCCTCCTTGTCTTTCCAGCTGC ctg13206 14
6967 I A CCTGGTAGTGTCAGCTCTCAAACTGTTGTTTTTCAAGATCAGCTTAAC
6967 P A A CGCGCCGAGGATTCCTTGGCCTTTTTAAATTGC
6967 P T A CGCGCCGAGGTTTCCTTGGCCTTTTTAAATTGC
6967 T A A TATAGCAATTTAAAAAGGCCAAGGAATTTAAGCTGATCTTGAAAAACAACAGTTTGAGAGCTGACACTACCAGGTA
6967 T T A TATAGCAATTTAAAAAGGCCAAGGAAATTAAGCTGATCTTGAAAAACAACAGTTTGAGAGCTGACACTACCAGGTA
6967 IS [AT] ATACCTGGTAGTGTCAGCTCTCAAACTGTTGTTTTTCAAGATCAGCTTAA[AT]TTCCTTGGCCTTTTTAAATTGCTATAT
AGATTTTAGAATTAATTAGTTGT ctg30 7
14839 I S GCCTGTTCTCCGACTCTCAACACAGCTGTGTCT
14839 P C S CGCGCCGAGGGACAGCCTCACCTCAAC
14839 P T S CGCGCCGAGGAACAGCCTCACCTCAAC
14839 T C S AAGCGTTGAGGTGAGGCTGTCGACACAGCTGTGTTGAGAGTCGGAGAACAGGCAT
14839 T T S AAGCGTTGAGGTGAGGCTGTTGACACAGCTGTGTTGAGAGTCGGAGAACAGGCAT
14839 IS [CT] tttgcgtgttttgaaaacctccatcaggaagcgttgaggtgaggctgt[CT]gacacagctgtgttgagagtcggagaacaggcatggggggaagctgagagt
23513 I A CGTGGGAGTTAATGATCTGGTGGGTAGCACACAGT
23513 P A A CGCGCCGAGGAGACAGGGTAATTGAAGGGTY
23513 P C A CGCGCCGAGGCGACAGGGTAATTGAAGGGY
23513 T A A GCTAACCCTTCAATTACCCTGTCTCTGTGTGCTACCCACCAGATCATTAACTCCCACGCG
23513 T C A GCTAACCCTTCAATTACCCTGTCGCTGTGTGCTACCCACCAGATCATTAACTCCCACGCG
23513 IS [AC] ATGCAGCTTGAAGCCGCGTGGGAGTTAATGATCTGGTGGGTAGCACACAG[AC]GACAGGGTAATTGAAGGGTTAGCA
CCATGAGGTGTTGGGGTAATAGCCAG ctg15064 7
45439 I S CGTGCACCCCCACAACTTGGTTACTCATATTTTTCTGAAAAGTAATTGT
45439 P T S CGCGCCGAGGATTTCACCTAGACTTTCAAATGTATTAAC
45439 P C S CGCGCCGAGGGTTTCACCTAGACTTTCAAATGTATTAA
45439 T T S TTATGTTAATACATTTGAAAGTCTAGGTGAAATCAATTACTTTTCAGAAAAATATGAGTAACCAAGTTGTGGGGGTGCA
CGTC
45439 T C S TTATGTTAATACATTTGAAAGTCTAGGTGAAACCAATTACTTTTCAGAAAAATATGAGTAACCAAGTTGTGGGGGTGCA
CGTC
45439 IS [TC] GAAAGACTGTGTGTATCATTATGTTAATACATTTGAAAGTCTAGGTGAAA[TC]CAATTACTTTTCAGAAAAATATGAGTA
ACCAAGTTGTGGGGGTGCACGTC ctg15064 7

FIGURE 129D

45470 I		S	GCCAAACCAACAACAGCTAAACTGCAGGAGGCTAA			
45470 P	G	S	CGCGCCGAGGCCCAGCTTATTAGGTATTTGACTT			
45470 P	A	S	CGCGCCGAGGTCCAGCTTATTAGGTATTTGACTTT			
45470 T	G	S	GCCCAAAGTCAAATACCTAATAAGCTGGGTAGCCTCCTGCAGTTTAGCTGTTGTTGGTTTGGCTG			
45470 T	A	S	GCCCAAAGTCAAATACCTAATAAGCTGGATAGCCTCCTGCAGTTTAGCTGTTGTTGGTTTGGCTG			
45470 IS	[GA]		ATCACTGCAGGTGAAAAAAACTGCCCAAAGTCAAATACCTAATAAGCTGG[GA]TAGCCTCCTGCAGTTTAGCTGTTGTT GGTTTGGCTGCTGGCATCCAAACA	ctg14708	2	
45489 I		S	CAAGGAGAAGGTGGCTGTCATCAATGAAGGAGTAGGATTCA			
45489 P	A	S	CGCGCCGAGGTAGGTGGGAAATGTCATCTAAAATT			
45489 P	G	S	CGCGCCGAGGCAGGTGGGAAATGTCATCTAAA			
45489 T	A	S	CTTGAATTTTAGATGACATTTCCCACCTAGAATCCTACTCCTTCATTGATGACAGCCACCTTCTCCTTGGT			
45489 T	G	S	CTTGAATTTTAGATGACATTTCCCACCTGGAATCCTACTCCTTCATTGATGACAGCCACCTTCTCCTTGGT			
45489 IS	[AG]		GAGCCACGGCGCCTGGCCGCCACTTGAATTTTAGATGACATTTCCCACCT[AG]GAATCCTACTCCTTCATTGATGACA GCCACCTTCTCCTTGGTCCAGTGTC	ctg25099	7	
45535 I		S	CACACAGCTGTGACCCTTGGGTCTTGGAAACC			
45535 P	T	S	CGCGCCGAGGACCTGTGGAGATTTAGCCT			
45535 P	A	S	CGCGCCGAGGTCCTGTGGAGATTTAGCCT			
45535 T	T	S	ACCAAGGCTAAATCTCCACAGGTGTTTCCAAGACCCAAGGGTCACAGCTGTGTGCC			
45535 T	A	S	ACCAAGGCTAAATCTCCACAGGAGTTTCCAAGACCCAAGGGTCACAGCTGTGTGCC			
45535 IS	[TA]		CTGATGACCTGGGAAGAACTCTGTTGTTACCAAGGCTAAATCTCCACAGG[TA]GTTTCCAAGACCCAAGGGTCACAGC TGTGTGCCAGTAGGAAAAGAGGGGT	ctg17207	19	
45542 I		S	TAAGTGTTTAAGTTCCAGCCCATTTTTGCAGGTAACAGTTTATAAAATACA			
45542 P	G	S	CGCGCCGAGGCCTGGAATAAACAGTGAAGATTATTC			
45542 P	A	S	CGCGCCGAGGTCTGGAATAAACAGTGAAGATTATTCT			
45542 T	G	S	ACAGAGAATAATCTTCACTGTTTATTCCAGGGTATTTTATAAACTGTTACCTGCAAAAATGGGCTGGAACTTAAACACTT A			
45542 T	A	S	ACAGAGAATAATCTTCACTGTTTATTCCAGAGTATTTTATAAACTGTTACCTGCAAAAATGGGCTGGAACTTAAACACTT A			
45542 IS	[GA]		CTGTATATAATTACCCCGAAACAGAGAATAATCTTCACTGTTTATTCCAG[GA]GTATTTTATAAACTGTTACCTGCAAAA ATGGGCTGGAACTTAAACACTTA	ctg13206	14	
45558 I		S	GCCTCATCACAAAGATGCACATGATTAATGACTGAAGGAGCATAGT			
45558 P	T	S	CGCGCCGAGGAAAGCCACCGGGCAY			
45558 P	C	S	CGCGCCGAGGGAAGCCACCGGGCAY			
45558 T	T	S	TCAGTGCCCGGTGGCTTTCTATGCTCCTTCAGTCATTAATCATGTGCATCTTTGTGATGAGGCCT			
45558 T	C	S	TCAGTGCCCGGTGGCTTCCTATGCTCCTTCAGTCATTAATCATGTGCATCTTTGTGATGAGGCCT			
45558 IS	[TC]		TGAAAACGTGCAATCTCTCTGTCTCTTTAGATCTCAGTGCCCGGTGGCTT[TC]CTATGCTCCTTCAGTCATTAATCATG TGCATCTTTGTGATGAGGCCTAAG	ctg15804	2	
48163 I		S	ACCCACAAAAAGAATGCATACCTTCCACTGTTGCTAGAGTT			
48163 P	T	S	CGCGCCGAGGATGCATAGTATGTATCCCTGGAV			
48163 P	C	S	CGCGCCGAGGGTGCATAGTATGTATCCCTGG			
48163 T	T	S	AGTATCCAGGGATACATACTATGCATACTCTAGCAACAGTGGAAGGTATGCATTCTTTTTGTGGGTGC			
48163 T	C	S	AGTATCCAGGGATACATACTATGCACACTCTAGCAACAGTGGAAGGTATGCATTCTTTTTGTGGGTGC			
48163 IS	[TC]		gtattgtgtattaacatctttttagaagtatccagggatacatactatgca[TC]actctagcaacagtggaaggtatgcatcttttgtgggtgctgcgggggc	ctg15804	2	
48179 I		A	GGAGAAAAGGACAATATAATATAGGCCCTCCCAAAACCTTTGGGAT			
48179 P	C	A	CGCGCCGAGGCCTGTTTCCCACTATGAGGTY			
48179 P	G	A	CGCGCCGAGGGCTGTTTCCCACTATGAGGY			
48179 T	C	A	GTCTACCTCATAGTGGGAAACAGGTCCCAAAGGTTTTGGGAGGGCCTATATTATATTGTCCTTTTCTCCCA			
48179 T	G	A	GTCTACCTCATAGTGGGAAACAGCTCCCAAAGGTTTTGGGAGGGCCTATATTATATTGTCCTTTTCTCCCA			
48179 IS	[CG]		aattgggagaaaaggacaatatataataggcccctcccaaaaccttgggat[CG]ctgtttcccactatgaggtagacttggacaaggacatttctgacttccca	ctg14708	2	
48462 I		A	GAGACCCAGCCGGCCAGCCAGAA			
48462 P	C	A	CGCGCCGAGGCCGTGTGCCTGAATGC			
48462 P	T	A	CGCGCCGAGGTCGTGTGCCTGAATGC			
48462 T	C	A	TGTGGCATTCAGGCACACGGTCTGGCTGGCCGGCTGGGTCTCCT			
48462 T	T	A	TGTGGCATTCAGGCACACGATCTGGCTGGCCGGCTGGGTCTCCT			
48462 IS	[CT]		gaggccccaggccacctagccccgggaggagacccagccgggccagcccaga[CT]cgtgtgcctgaatgccacagacttcaagcagtttacaaacgaaactctact	ctg14708	2	PACSIN2
60871 I		S	AAAGTGGCTGAGAAAGTAGAACATAAAAAATAGGCAGAATAATCAAAAACT			
60871 P	C	S	CGCGCCGAGGGACCCACTTAAAAAATGGTAAAAATG			
60871 P	T	S	CGCGCCGAGGAACCCACTTAAAAAATGGTAAAAATG			
60871 T	C	S	TTTCCATTTTTACCATTTTTTAAGTGGGTCGTTTTTGATTATTCTGCCTATTTTTTATGTTCTACTTTCTCAGCCACTTT			
60871 T	T	S	TTTCCATTTTTACCATTTTTTAAGTGGGTTGTTTTTGATTATTCTGCCTATTTTTTATGTTCTACTTTCTCAGCCACTTT			
60871 IS	[CT]		acaatgtacatgtgtatatttccatttaccatttttaagtgggt[CT]gtttgatatttctgcctatttttatgttctacttttctcagccacttt	ctg14708	2	
60872 I		S	AGTATTTTGATCATGCTAATATTTATAGACATTTAAACATTATGCCAATTT			
60872 P	C	S	CGCGCCGAGGGTAAACTGTATCAAATCGCATACATC			
60872 P	T	S	CGCGCCGAGGATAAACTGTATCAAATCGCATACATC			
60872 T	C	S	GACTGATGTATGCGATTTGATACAGTTTACAATTGGCATAATGTTTAAATGTCTATAAATATTAGCATGATCAAAATACT			
60872 T	T	S	GACTGATGTATGCGATTTGATACAGTTTATAATTGGCATAATGTTTAAATGTCTATAAATATTAGCATGATCAAAATACT			
60872 IS	[CT]		catttctgcttactatcctaggactgatgtatgcgatttgatacagttta[CT]aattggcataatgtttaaatgtctataaaatattagcatgatcaaaatact	ctg14708	2	
60876 I		S	GCTAAGTTTTCTCTAAAATATTCACAAAATTACTCATCTAGGAAGTAAGAT			
60876 P	G	S	CGCGCCGAGGCATGTTAGTCAGAAACAGACATAATTT			
60876 P	C	S	CGCGCCGAGGGATGTTAGTCAGAAACAGACATAATTTG			
60876 T	G	S	TTTTCAAATTATGTCTGTTTCTGACTAACATGTCTTACTTCCTAGATGAGTAATTTTGTGAATATTTTAGAGAAAACTTAG C			
60876 T	C	S	TTTTCAAATTATGTCTGTTTCTGACTAACATCTCTTACTTCCTAGATGAGTAATTTTGTGAATATTTTAGAGAAAACTTAG C			
60876 IS	[GC]		ctaaacaataaatcctgtctttttcaaattatgtctgtttctgactaacat[GC]tcttacttcctagatgagtaatttgtgaatatttttagagaaaacttagc	ctg14708	2	
60879 I		A	GAGGGTCTGTCTCCACAGAGGACCCTGTTGTAC			
60879 P	T	A	CGCGCCGAGGTGACCTGCACCATCCA			
60879 P	A	A	CGCGCCGAGGAGACCTGCACCATCCA			
60879 T	T	A	CTGCTGGATGGTGCAGGTCATACAACAGGGTCCTCTGTGGAGACAGACCCTCTA			
60879 T	A	A	CTGCTGGATGGTGCAGGTCTTACAACAGGGTCCTCTGTGGAGACAGACCCTCTA			
60879 IS	[TA]		ggctggcaggagctgctagagggtctgtctccacagaggacccttgttgta[TA]gacctgcaccatcccagcaggggtctggtcgctgtatcagtgatgaccatg	ctg14708	2	
60882 I		A	CCTGTATGAGGAGGAACAGAAAGCCATGTCTAACAGAAAGCTTAAA			
60882 P	C	A	CGCGCCGAGGCTGCTGGGGTCCAGT			

FIGURE 129D

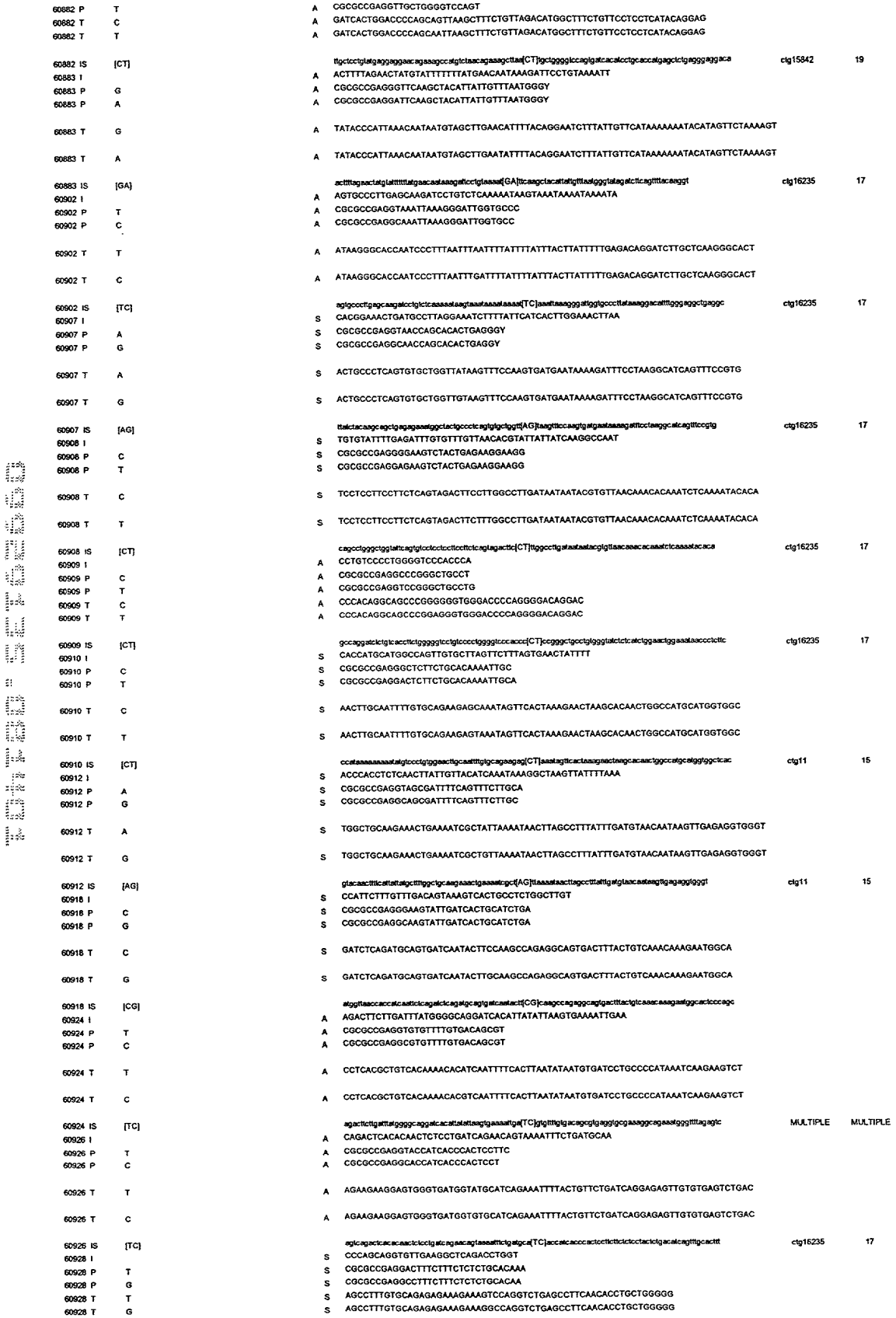
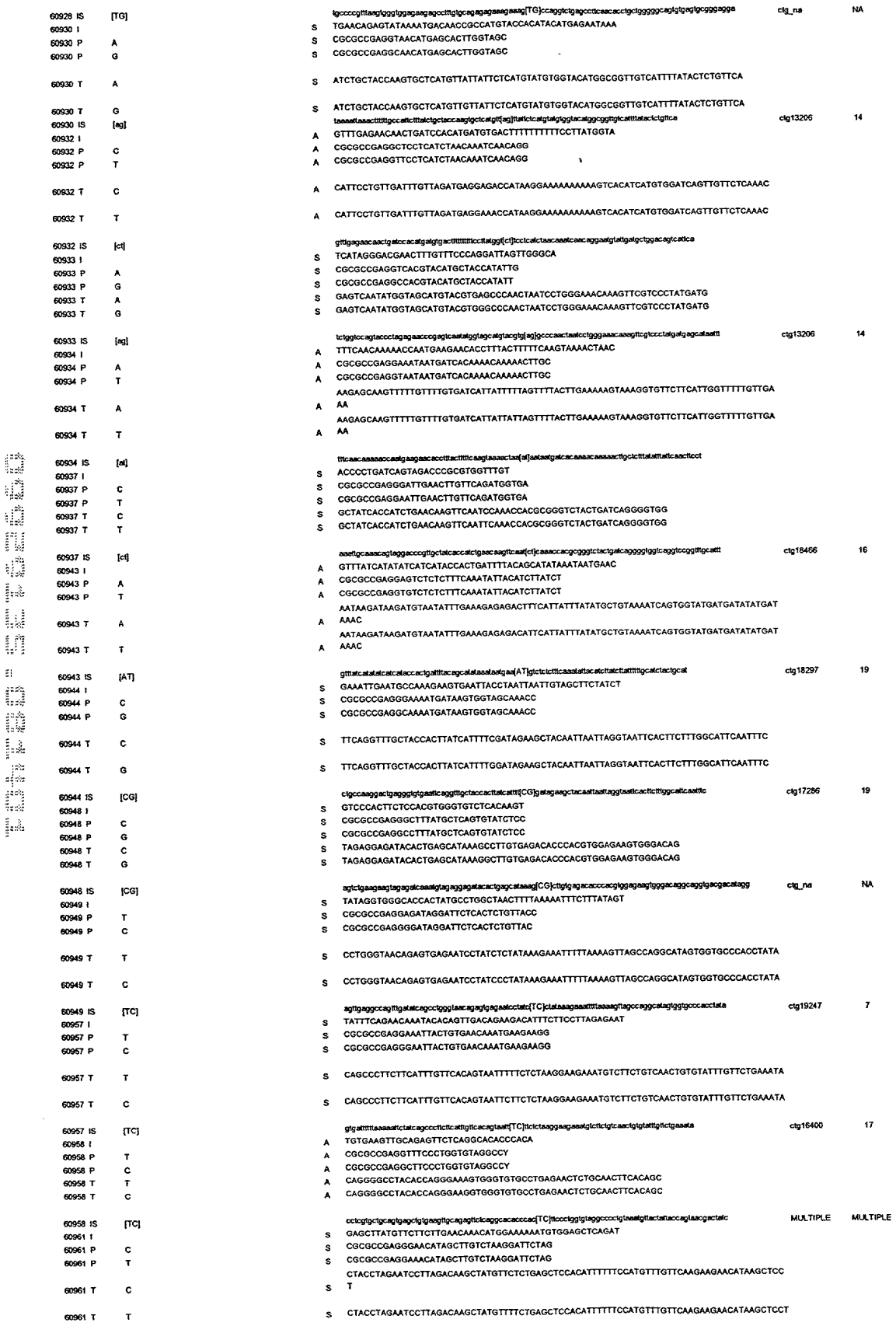
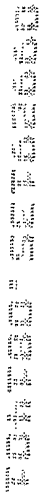

60882 P T A CGCGCCGAGGTTGCTGGGGTCCAGT
60882 T C A GATCACTGGACCCCAGCAGTTAAGCTTTCTGTTAGACATGGCTTTCTGTTCCTCCTCATACAGGAG
60882 T T A GATCACTGGACCCCAGCAATTAAGCTTTCTGTTAGACATGGCTTTCTGTTCCTCCTCATACAGGAG
60882 IS [CT] ctg15842 19
60883 I A ACTTTTAGAACTATGTATTTTTTTATGAACAATAAAGATTCCTGTAAAATT
60883 P G A CGCGCCGAGGGTTCAAGCTACATTATTGTTTAATGGGY
60883 P A A CGCGCCGAGGATTCAAGCTACATTATTGTTTAATGGGY
60883 T G A TATACCCATTAAACAATAATGTAGCTTGAACATTTTACAGGAATGTTTATTGTTCATAAAAAAATACATAGTTCTAAAAGT
60883 T A A TATACCCATTAAACAATAATGTAGCTTGAATATTTTACAGGAATCTTTATTGTTCATAAAAAAATACATAGTTCTAAAAGT
60883 IS [GA] ctg16235 17
60902 I A AGTGCCCTTGAGCAAGATCCTGTCTCAAAAATAAGTAAATAAAATAAAATA
60902 P T A CGCGCCGAGGTAAATTAAAGGGATTGGTGCCC
60902 P C A CGCGCCGAGGCAAATTAAAGGGATTGGTGCC
60902 T T A ATAAGGGCACCAATCCCTTTAATTTAATTTTATTTTATTTACTTATTTTTGAGACAGGATCTTGCTCAAGGGCACT
60902 T C A ATAAGGGCACCAATCCCTTTAATTTGATTTTATTTTATTTACTTATTTTTGAGACAGGATCTTGCTCAAGGGCACT
60902 IS [TC] ctg16235 17
60907 I S CACGGAAACTGATGCCTTAGGAAATCTTTTATTCATCACTTGGAAACTTAA
60907 P A S CGCGCCGAGGTAACCAGCACACTGAGGGY
60907 P G S CGCGCCGAGGCAACCAGCACACTGAGGY
60907 T A S ACTGCCCTCAGTGTGCTGGTTATAAGTTTCCAAGTGATGAATAAAAGATTTCCTAAGGCATCAGTTTCCGTG
60907 T G S ACTGCCCTCAGTGTGCTGGTTGTAAGTTTCCAAGTGATGAATAAAAGATTTCCTAAGGCATCAGTTTCCGTG
60907 IS [AG] ctg16235 17
60908 I S TGTGTATTTTGAGATTTGTGTTTGTTAACACGTATTATTATCAAGGCCAAT
60908 P C S CGCGCCGAGGGGAAGTCTACTGAGAAGGAAGG
60908 P T S CGCGCCGAGGAGAAGTCTACTGAGAAGGAAGG
60908 T C S TCCTCCTTCCTTCTCAGTAGACTTCCTTGGCCTTGATAATAATACGTGTTAACAAACACAAATCTCAAAATACACA
60908 T T S TCCTCCTTCCTTCTCAGTAGACTTCTTTGGCCTTGATAATAATACGTGTTAACAAACACAAATCTCAAAATACACA
60908 IS [CT] ctg16235 17
60909 I A CCTGTCCCCTGGGGTCCCACCCA
60909 P C A CGCGCCGAGGCCCGGGCTGCCT
60909 P T A CGCGCCGAGGTCCGGGCTGCCTG
60909 T C A CCCACAGGCAGCCCGGGGGGTGGGACCCCAGGGGACAGGAC
60909 T T A CCCACAGGCAGCCCGGAGGGTGGGACCCCAGGGGACAGGAC
60909 IS [CT] ctg16235 17
60910 I S CACCATGCATGGCCAGTTGTGCTTAGTTCTTTAGTGAACTATTTT
60910 P C S CGCGCCGAGGGCTCTTCTGCACAAAATTGC
60910 P T S CGCGCCGAGGACTCTTCTGCACAAAATTGCA
60910 T C S AACTTGCAATTTTGTGCAGAAGAGCAAATAGTTCACTAAAGAACTAAGCACAACTGGCCATGCATGGTGGC
60910 T T S AACTTGCAATTTTGTGCAGAAGAGTAAATAGTTCACTAAAGAACTAAGCACAACTGGCCATGCATGGTGGC
60910 IS [CT] ctg11 15
60912 I S ACCCACCTCTCAACTTATTGTTACATCAAATAAAGGCTAAGTTATTTTAAA
60912 P A S CGCGCCGAGGTAGCGATTTTCAGTTTCTTGCA
60912 P G S CGCGCCGAGGCAGCGATTTTCAGTTTCTTGC
60912 T A S TGGCTGCAAGAAACTGAAAATCGCTATTAAAATAACTTAGCCTTTATTTGATGTAACAATAAGTTGAGAGGTGGGT
60912 T G S TGGCTGCAAGAAACTGAAAATCGCTGTTAAAATAACTTAGCCTTTATTTGATGTAACAATAAGTTGAGAGGTGGGT
60912 IS [AG] ctg11 15
60918 I S CCATTCTTTGTTTGACAGTAAAGTCACTGCCTCTGGCTTGT
60918 P C S CGCGCCGAGGGAAGTATTGATCACTGCATCTGA
60918 P G S CGCGCCGAGGCAAGTATTGATCACTGCATCTGA
60918 T C S GATCTCAGATGCAGTGATCAATACTTCCAAGCCAGAGGCAGTGACTTTACTGTCAAACAAAGAATGGCA
60918 T G S GATCTCAGATGCAGTGATCAATACTTGCAAGCCAGAGGCAGTGACTTTACTGTCAAACAAAGAATGGCA
60918 IS [CG] MULTIPLE MULTIPLE
60924 I A AGACTTCTTGATTTATGGGGCAGGATCACATTATATTAAGTGAAAATTGAA
60924 P T A CGCGCCGAGGTGTGTTTTGTGACAGCGT
60924 P C A CGCGCCGAGGCGTGTTTTGTGACAGCGT
60924 T T A CCTCACGCTGTCACAAAACACATCAATTTTCACTTAATATAATGTGATCCTGCCCCATAAATCAAGAAGTCT
60924 T C A CCTCACGCTGTCACAAAACACGTCAATTTTCACTTAATATAATGTGATCCTGCCCCATAAATCAAGAAGTCT
60926 I A CAGACTCACACAACTCTCCTGATCAGAACAGTAAAATTTCTGATGCAA
60926 P T A CGCGCCGAGGTACCATCACCCACTCCTTC
60926 P C A CGCGCCGAGGCACCATCACCCACTCCT
60926 T T A AGAAGAAGGAGTGGGTGATGGTATGCATCAGAAATTTTACTGTTCTGATCAGGAGAGTTGTGTGAGTCTGAC
60926 T C A AGAAGAAGGAGTGGGTGATGGTGTGCATCAGAAATTTTACTGTTCTGATCAGGAGAGTTGTGTGAGTCTGAC
60926 IS [TC] ctg16235 17
60928 I S CCCAGCAGGTGTTGAAGGCTCAGACCTGGT
60928 P T S CGCGCCGAGGACTTTCTTTCTCTCTGCACAAA
60928 P G S CGCGCCGAGGCCTTTCTTTCTCTCTGCACAA
60928 T T S AGCCTTTGTGCAGAGAGAAAGAAAGTCCAGGTCTGAGCCTTCAACACCTGCTGGGGG
60928 T G S AGCCTTTGTGCAGAGAGAAAGAAAGGCCAGGTCTGAGCCTTCAACACCTGCTGGGGG

FIGURE 129D





60961	IS	[CT]		aagccagggtgacccagggtcctacctagaatcctagacaagctatgtt[CT]tctgagctccacatttttccatgttgttcaagaagaacataagcttct	ctg13103	9
60970	I		A	ACAGGTTTGAGAACACAAAAGCAGCATGCATGTATGTTTTTTATGAGTT		
60970	P	A	A	CGCGCCGAGGAACAATGACGGAAATAGGTATTCA		
60970	P	G	A	CGCGCCGAGGGACAATGACGGAAATAGGTATTCA		
60970	T	A	A	AATTTGAATACCTATTTCCGTCATTGTTACTCATAAAAACATACATGCATGCTGCTTTTGTGTTCTCAAACCTGTGC		
60970	T	G	A	AATTTGAATACCTATTTCCGTCATTGTCACTCATAAAAACATACATGCATGCTGCTTTTGTGTTCTCAAACCTGTGC		
60970	IS	[AG]		tgcacaggttgagaacacaaaagcagcatgcatgtatgttttatgagt[AG]acaatgacgggaaataggtatticaaatttcttgcatttaccgagacan>nn	ctg16820	16
60971	I		A	TTGGCCTGTTATGTTTTTGGTGGTTGTTGATAATGTATGATTTACAATCAT		
60971	P	G	A	*CGCGCC*GAGGGCAAAATGGAGAGGTCTAAATTTTT		
60971	P	A	A	CGCGCCGAGGACAAAATGGAGAGGTCTAAATTTTTC		
60971	T	G	A	CACAGAAAAATTTAGACCTCTCCATTTTGCTGATTGTAAATCATACATTATCAACAACCACCAAAAACATAACAGGCCAA		
60971	T	A	A	CACAGAAAAATTTAGACCTCTCCATTTTGTTGATTGTAAATCATACATTATCAACAACCACCAAAAACATAACAGGCCAA		
60971	IS	[GA]		ttggcctgttatgttttggtggttgttgataatgtatgatttacaatca[GA]caaaatggagaggtctaaatttttctgtgcatatgaatcccagcagttt	ctg13206	14
60972	I		S	GACACAGCTGTGAAAACTGGATATCCATTTGAACTCCATATTTATGCATAA		
60972	P	A	S	CGCGCCGAGGTAGCTGATGGTTCCAAGGAY		
60972	P	G	S	CGCGCCGAGGCAGCTGATGGTTCCAAGGY		
60972	T	A	S	CGTTTCCTTGGAACCATCAGCTATATGCATAAATATGGAGTTCAAATGGATATC*CAGTTTTCACAGCTGTGTC*		
60972	T	G	S	CGTTTCCTTGGAACCATCAGCTGTATGCATAAATATGGAGTTCAAATGGATATCCAGTTTTCACAGCTGTGTC		
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60977	I		A	CAGTCCTAGCTCAGCCCAGGGACCAGGT		
60977	P	A	A	CGCGCCGAGGAAAGAGAGTGAAAAACCCTCC		
60977	P	C	A	CGCGCCGAGGCAAGAGAGTGAAAAACCCTCC		
60977	T	A	A	ATCTGGAGGGTTTTTCACTCTCTTCCTGGTCCCTGGGCTGAGCTAGGACTGGC		
60977	T	C	A	ATCTGGAGGGTTTTTCACTCTCTTGCCTGGTCCCTGGGCTGAGCTAGGACTGGC		
60977	IS	[AC]		gtagaagggatctcatcactgccagtcctagctcagcccagggaccagg[AC]aagagagtgaaaaacccctccagatgagcccagtttcctgcttttgggtc	ctg14583	1
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60978	P	A	A	CGCGCCGAGGATTTAAAGTACATATTTGTAGACCGAATG		
60978	P	G	A	CGCGCCGAGGGTTTAAAGTACATATTTGTAGACCGAATG		
60978	T	A	A	*GTGTCATTCGGTCTA*CAAATATGTACTTTAAATGTAACATTTTTCCAGAAACATAGTATTGATCTCATATTTTGAGGCAC TTC		
60978	T	G	A	*GTGTCATTCGGTCTACAAATATGTACTTT*AAACGTAACATTTTTCCAGAAACATAGTATTGATCTCATATTTTGAGGCAC TTC		
60978	IS	[ag]		gaagtgcctcaaaatatgagatcaatactatgtttctggaaaaatgttac[ag]tttaaagtactatttgtagaccgaatgcacactgtacacactttcctttagt	ctg16820	16
60979	I		S	*TGATCAGATGAGAGCATATGTTTCTTCTGTCAACAACAGCAACAAAAGTAT*		
60979	P	C	S	CGCGCCGAGGGAACAGCTAGAAACTCCAGG		
60979	P	T	S	CGCGCCGAGGAAACAGCTAGAAACTCCAGG		
60979	T	C	S	GTTCCCTGGAGTTTCTAGCT*GTTCTACTTTTGTTGCTGTTGTT*GACAGAAGAAACATATGCTCTCATCTGATCA		
60979	T	T	S	GTTCCCTGGAGTTTC*TAGCTGTTTTACTTTTGTTGCTGTTGTT*GACAGAAGAAACATATGCTCTCATCTGATCA		
60979	IS	[CT]		gtactctgatgttgtacagctacttatgttcccatggagtttctagctgtt[CT]tacttttgttgctgttgttgtacagtagaaacatatgctctcatctgatca	ctg18743	16
60985	I		S	GACAGATTTAAGAAGCTTGAATAACTCCACATTAGAGGATGCCTATAGATC		
60985	P	C	S	CGCGCCGAGGGTCCTTGCAGAGTCCTTC		
60985	P	A	S	CGCGCCGAGGTTCCTTGCAGAGTCCTTCA		
60985	T	C	S	GTGATGAAGGACTCTGCAAGGACATCTATAGGCATCCTCTAATGTGGAGTTATTCAAGCTTCTTAAATCTGTC		
60985	T	A	S	GTGATGAAGGACTCTGCAAGGAAATCTATAGGCATCCTCTAATGTGGAGTTATTCAAGCTTCTTAAATCTGTC		
60985	IS	[CA]		ttaaaagttcagtgactgctattattaggtgatgaaggactctgcaagga[CA]atctataggcatcctctaatgtggagttattcaagcttcttaaatctgtc		
60986	I		A	CAGCAGCAGCTTGGTGGATAGAATACCAAGATGGGT		
60986	P	C	A	CGCGCCGAGGCGTGGAGACTGTGCAAAG		
60986	P	A	A	CGCGCCGAGGAGTGGAGACTGTGCAAAG		
60986	T	C	A	ATTGCTTTGCACAGTCTCCACGCCCATCTTGGTATTCTATCCACCAAGCTGCTGCTGGG		
60986	T	A	A	ATTGCTTTGCACAGTCTCCACTCCCATCTTGGTATTCTATCCACCAAGCTGCTGCTGGG		
60986	IS	[CA]		ctgctgtctgtgtcccagcagcagctttggtggatagaataccaagatgggt[CA]gtggagactgtgcaaagcaatgaggcttaaccticagacttactcatcacac	MULTIPLE	MULTIPLE
60989	I		A	ACACAAACAAGGGCTCGCCAACCAGGGA		
60989	P	C	A	CGCGCCGAGGCAAACCATCCATTATGCTGG		
60989	P	T	A	CGCGCCGAGGTAAACCATCCATTATGCTGGG		
60989	T	C	A	CTCCCCCAGCATAATGGATGGTTTGCCCTGGTTGGCGAGCCCTTGTTTGTGTTA		
60989	T	T	A	CTCCCCCAGCATAATGGATGGTTTACCCTGGTTGGCGAGCCCTTGTTTGTGTTA		
60989	IS	[CT]		ccctgcagagtgttccacctctaacacaaacaagggctcgccaaccagggg[CT]aaaccatccattatgctgggggaggaaaggcaccgcaaattctagaaaac	ctg16105	5
60990	I		S	GCAGGGTCTGATGTGGTGACTCATGCGTATAATCTGAT		
60990	P	T	S	CGCGCCGAGGACACTTTGTGGGGCTGA		
60990	P	C	S	CGCGCCGAGGGCACTTTGTGGGGCTG		
60990	T	T	S	CACGTCAGCCCCACAAAGTGTTCAGATTATACGCATGAGTCACCACATCAGACCCTGCAA		
60990	T	C	S	CACGTCAGCCCCACAAAGTGCTCAGATTATACGCATGAGTCACCACATCAGACCCTGCAA		
60990	IS	[TC]		catccgcccactggactcaagccatccgcccacgtcagcccccacaaagtg[TC]tcagattatacgcatgagtcaccacatcagacoctgcaaatgtagatttt	ctg21fin5	21
60995	I		S	GGGACATCTTCTGGGATCAGGAACCTAGAAGAGACATGATTACTAA		
60995	P	A	S	CGCGCCGAGGTTGGAGATGCCAGAAAGAGA		
60995	P	G	S	CGCGCCGAGGCTGGAGATGCCAGAAAGAG		
60995	T	A	S	GTCCTCTCTTTCTGGCATCTCCAATAGTAATCATGTCTCTTCTAGGTTCCTGATCCCAGAAGATGTCCCTG		
60995	T	G	S	*GTCCTCTCTTTC*TGGCATCTCCAGTAGTAATCATGTCTCTTCTAGGTTCCTGATCCCAGAAGATGTCCCTG		
60995	IS	[AG]		tggtaggaagagatcaaggcacatttgtcctctcttctggcatctcca[AG]tagtaatcatgtctcttctaggttcctgatcccagaagatgtccctgcgg	ctg22fin4	22
60996	I		S	CTCTCTTGGCTTAGGAGAATCTGGGCCTGCAGC		
60996	P	A	S	*CGCGCCGAGGTCTT*GGTGGTAAAATGATGTTGA		
60996	P	C	S	CGCGCCGAGGGCTTGGTGGTAAAATGATGTTG		
60996	T	A	S	*GTTTT*CAACATCATTTTACCACCAAGACTGCAGGCCCAGATTCTCCTAAGCCAAGAGAGGT		
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FIGURE 129D

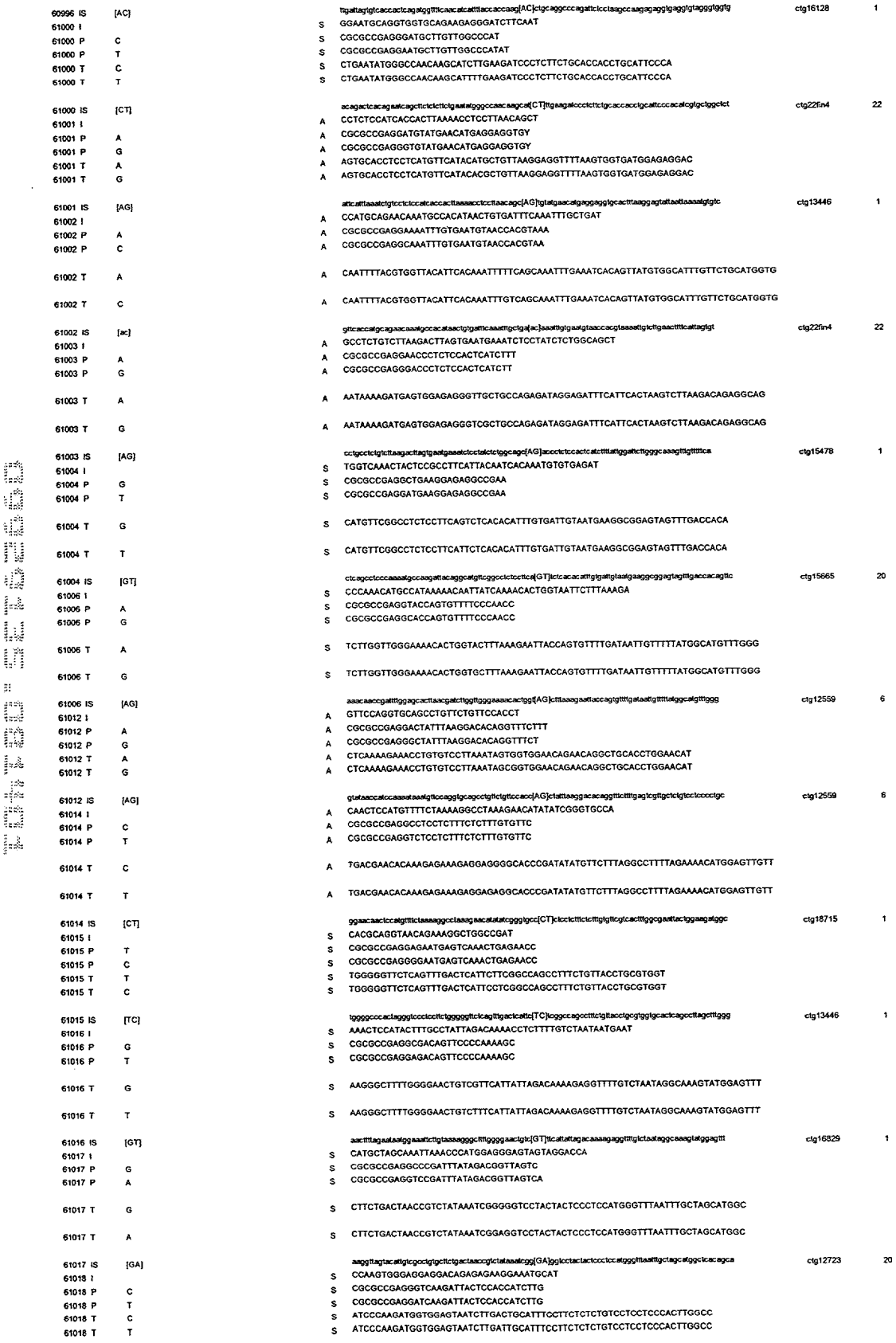

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61000 I S GGAATGCAGGTGGTGCAGAAGAGGGATCTTCAAT
61000 P C S CGCGCCGAGGGATGCTTGTTGGCCCAT
61000 P T S CGCGCCGAGGAATGCTTGTTGGCCCATAT
61000 T C S CTGAATATGGGCCAACAAGCATCTTGAAGATCCCTCTTCTGCACCACCTGCATTCCCA
61000 T T S CTGAATATGGGCCAACAAGCATTTTGAAGATCCCTCTTCTGCACCACCTGCATTCCCA
61000 IS [CT] acagactcacagaatcagctctctcttctgaatatgggccaacaagcat[CT]ttgaagatcccictttctgcaccacctgcattcccacatcgtgctggctct ctg22fin4 22
61001 I A CCTCTCCATCACCACTTAAAACCTCCTTAACAGCT
61001 P A A CGCGCCGAGGATGTATGAACATGAGGAGGTGY
61001 P G A CGCGCCGAGGGTGTATGAACATGAGGAGGTGY
61001 T A A AGTGCACCTCCTCATGTTCATACATGCTGTTAAGGAGGTTTTAAGTGGTGATGGAGAGGAC
61001 T G A AGTGCACCTCCTCATGTTCATACACGCTGTTAAGGAGGTTTTAAGTGGTGATGGAGAGGAC
61001 IS [AG] atticatttaaatctgtcctcicccatcaccacttaaaaacctccttaacagc[AG]tgtatgaacatgaggagglgcacttaaggagtattaattaaaatgtgtc ctg13446 1
61002 I A CCATGCAGAACAAATGCCACATAACTGTGATTTCAAATTTGCTGAT
61002 P A A CGCGCCGAGGAAAATTTGTGAATGTAACCACGTAAA
61002 P C A CGCGCCGAGGCAAATTTGTGAATGTAACCACGTAA
61002 T A A CAATTTTACGTGGTTACATTCACAAATTTTTCAGCAAATTTGAAATCACAGTTATGTGGCATTTGTTCTGCATGGTG
61002 T C A CAATTTTACGTGGTTACATTCACAAATTTGTCAGCAAATTTGAAATCACAGTTATGTGGCATTTGTTCTGCATGGTG
61002 IS [ac] gttcaccatgcagaacaaatgccacataactgtgatttcaaatttgctga[ac]aaattgtgaatgtaaccacgtaaaattgtcttgaacttttcattagtgt ctg22fin4 22
61003 I A GCCTCTGTCTTAAGACTTAGTGAATGAAATCTCCTATCTCTGGCAGCT
61003 P A A CGCGCCGAGGAACCCTCTCCACTCATCTTT
61003 P G A CGCGCCGAGGGACCCTCTCCACTCATCTT
61003 T A A AATAAAAGATGAGTGGAGAGGGTTGCTGCCAGAGATAGGAGATTTCATTCACTAAGTCTTAAGACAGAGGCAG
61003 T G A AATAAAAGATGAGTGGAGAGGGTCGCTGCCAGAGATAGGAGATTTCATTCACTAAGTCTTAAGACAGAGGCAG
61003 IS [AG] cctgcctctgtcttaagacttagtgaatgaaatcctcctatctctggcagc[AG]acccictccactcatctttlatggatictlgggcaaagttlgttttica ctg15478 1
61004 I S TGGTCAAACTACTCCGCCTTCATTACAATCACAAATGTGTGAGAT
61004 P G S CGCGCCGAGGCTGAAGGAGAGGCCGAA
61004 P T S CGCGCCGAGGATGAAGGAGAGGCCGAA
61004 T G S CATGTTCGGCCTCTCCTTCAGTCTCACACATTTGTGATTGTAATGAAGGCGGAGTAGTTTGACCACA
61004 T T S CATGTTCGGCCTCTCCTTCATTCTCACACATTTGTGATTGTAATGAAGGCGGAGTAGTTTGACCACA
61004 IS [GT] ctcagcctcccaaaatgccaagattacaggcatgttcggcctctcctca[GT]ictcacacattgtgattgtaatgaaggcggagtagttgtaccacagttc ctg15665 20
61006 I S CCCAAACATGCCATAAAAACAATTATCAAAACACTGGTAATTCTTTAAAGA
61006 P A S CGCGCCGAGGTACCAGTGTTTTCCCAACC
61006 P G S CGCGCCGAGGCACCAGTGTTTTCCCAACC
61006 T A S TCTTGGTTGGGAAAACACTGGTACTTTAAAGAATTACCAGTGTTTTGATAATTGTTTTTATGGCATGTTTGGG
61006 T G S TCTTGGTTGGGAAAACACTGGTGCTTTAAAGAATTACCAGTGTTTTGATAATTGTTTTTATGGCATGTTTGGG
61006 IS [AG] aaacaaccgatttggagcacttaacgatctggttgggaaaacactgg[AG]cttaaagaattaccagtgtttgataatlgttttatggcatgttggg ctg12559 6
61012 I A GTTCCAGGTGCAGCCTGTTCTGTTCCACCT
61012 P A A CGCGCCGAGGACTATTTAAGGACACAGGTTTCTTT
61012 P G A CGCGCCGAGGGCTATTTAAGGACACAGGTTTCT
61012 T A A CTCAAAAGAAACCTGTGTCCTTAAATAGTGGTGGAACAGAACAGGCTGCACCTGGAACAT
61012 T G A CTCAAAAGAAACCTGTGTCCTTAAATAGCGGTGGAACAGAACAGGCTGCACCTGGAACAT
61012 IS [AG] gtatcaccatccaaaataaatgttccaggtgcagcctgttctgttccacc[AG]ctattaaggacacaggtttcttttgagtcgttgctctgtcctccccctgc ctg12559 6
61014 I A CAACTCCATGTTTTCTAAAAGGCCTAAAGAACATATATCGGGTGCCA
61014 P C A CGCGCCGAGGCCTCCTCTTTCTCTTTGTGTTC
61014 P T A CGCGCCGAGGTCTCCTCTTTCTCTTTGTGTTC
61014 T C A TGACGAACACAAAGAGAAAGAGGAGGGGCACCCGATATATGTTCTTTAGGCCTTTTAGAAAACATGGAGTTGTT
61014 T T A TGACGAACACAAAGAGAAAGAGGAGAGGCACCCGATATATGTTCTTTAGGCCTTTTAGAAAACATGGAGTTGTT
61014 IS [CT] ggaacaacicccatgtttlctaaaaggcctaaagaacatatatcgggtgcc[CT]ctcctcttlcctttgtgtlcgtcacttggcgaattactggaagatggc ctg18715 1
61015 I S CACGCAGGTAACAGAAAGGCTGGCCGAT
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61015 P C S CGCGCCGAGGGGAATGAGTCAAACTGAGAACC
61015 T T S TGGGGGTTCTCAGTTTGACTCATTCTTCGGCCAGCCTTTCTGTTACCTGCGTGGT
61015 T C S TGGGGGTTCTCAGTTTGACTCATTCCTCGGCCAGCCTTTCTGTTACCTGCGTGGT
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61016 P G S CGCGCCGAGGCGACAGTTCCCCAAAAGC
61016 P T S CGCGCCGAGGAGACAGTTCCCCAAAAGC
61016 T G S AAGGGCTTTTGGGGAACTGTCGTTCATTATTAGACAAAAGAGGTTTTGTCTAATAGGCAAAGTATGGAGTTT
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61017 P A S CGCGCCGAGGTCCGATTTATAGACGGTTAGTCA
61017 T G S CTTCTGACTAACCGTCTATAAATCGGGGGTCCTACTACTCCCTCCATGGGTTTAATTTGCTAGCATGGC
61017 T A S CTTCTGACTAACCGTCTATAAATCGGAGGTCCTACTACTCCCTCCATGGGTTTAATTTGCTAGCATGGC
61017 IS [GA] aaggttagtacattgtcgcctgtgctctgactaaccgtctataaaatcgg[GA]ggtcctactactcccicccatgggtttaatttgctagcatggctcacagca ctg12723 20
61018 I S CCAAGTGGGAGGAGGACAGAGAGAAGGAAATGCAT
61018 P C S CGCGCCGAGGGTCAAGATTACTCCACCATCTTG
61018 P T S CGCGCCGAGGATCAAGATTACTCCACCATCTTG
61018 T C S ATCCCAAGATGGTGGAGTAATCTTGACTGCATTTCCTTCTCTCTGTCCTCCTCCCACTTGGCC
61018 T T S ATCCCAAGATGGTGGAGTAATCTTGATTGCATTTCCTTCTCTCTGTCCTCCTCCCACTTGGCC

FIGURE 129D

61018 IS	[CT]		acaactctctgggaggggactgtgatcccaagatggtggagtaatcttga[CT]tgcatttcctctctctgtcctcctcccacttggccagaaatgcaggtat	ctg16537	20
61019 I		A	TAATGAAAACCTTTCCCTAAGGCCTCAGATGAGCTATAGAAAATAAAGACA		
61019 P	T	A	CGCGCCGAGGTGTATGTGAATTCTTTAGGTTCATGA		
61019 P	C	A	CGCGCCGAGGCGTATGTGAATTCTTTAGGTTCATG		
61019 T	T	A	AACATCATGAACCTAAAGAATTCACATACAGTCTTTATTTTCTATAGCTCATCTGAGGCCTTAGGGAAAGGTTTTCATTA		
61019 T	C	A	AACATCATGAACCTAAAGAATTCACATACGGTCTTTATTTTCTATAGCTCATCTGAGGCCTTAGGGAAAGGTTTTCATTA		
61019 IS	[TC]		taatgaaaacctttcctaaggcctcagatgagctatagaaaataaagac[TC]gtatgtgaatcttaggttcatgatgttgactcttcaatgggtagtga	MULTIPLE	MULTIPLE
61020 I		A	CATAGCTACAGTTTAGGAAAACTTAATTTATGTATGAGTCTGCTTCATAAA		
61020 P	C	A	CGCGCCGAGGCGACAAACATGACAAGCATTG		
61020 P	T	A	CGCGCCGAGGTGACAAACATGACAAGCATTG		
61020 T	C	A	TAAACAATGCTTGTCATGTTTGTCGTTATGAAGCAGACTCATACATAAATTAAGTTTTCCTAAACTGTAGCTATG		
61020 T	T	A	TAAACAATGCTTGTCATGTTTGTCATTATGAAGCAGACTCATACATAAATTAAGTTTTCCTAAACTGTAGCTATG		
61020 IS	[CT]		catagctacagtttaggaaaacttaatttatgtatgagtctgcttcataa[CT]gacaaacatgacaagcattgtttaaaaagctcctggtagatatttatctt	ctg18466	16
61021 I		A	TTAGAATGAGACAGATCATGAGAATATGATCTCTATCTCTTATTCATGGAA		
61021 P	T	A	CGCGCCGAGGTGTACCCCAATTTTCAGTAGAC		
61021 P	C	A	CGCGCCGAGGCGTACCCCAATTTTCAGTAGAC		
61021 T	T	A	GAGCGTCTACTGAAAATTGGGGTACATCCATGAATAAGAGATAGAGATCATATTCTCATGATCTGTCTCATTCTAA		
61021 T	C	A	GAGCGTCTACTGAAAATTGGGGTACGTCCATGAATAAGAGATAGAGATCATATTCTCATGATCTGTCTCATTCTAA		
61021 IS	[TC]		ttagaatgagacagatcatgagaatatgatcictatctctattcatggg[TC]gtaccccaatttcagtagacgctcaagaaatttttatcagttgaatgaa	ctg17341	14
61022 I		A	GTGGATACACGGAAGGGTGAGAAAAATGGAATTTACTGAGCAC		
61022 P	T	A	CGCGCCGAGGTAAAGGAAAGAAACTCAGCAAAG		
61022 P	A	A	CGCGCCGAGGAAAAGGAAAGAAACTCAGCAAAG		
61022 T	T	A	CTTGCTTTGCTGAGTTTCTTTCCTTTATGCTCAGTAAATTCCATTTTTCTCACCCTTCCGTGTATCCACGA		
61022 T	A	A	CTTGCTTTGCTGAGTTTCTTTCCTTTTTGCTCAGTAAATTCCATTTTTCTCACCCTTCCGTGTATCCACGA		
61022 IS	[TA]		ttaggttcgtggatacacggaaggglagagaaaaatggaattactgagca[TA]aaaggaaagaaactcagcaaagcaagagaggttcctgttaataagccccc	ctg13655	10
61027 I		S	CCTGTACTGGAACACTCTCCTTTCGCCTTTGTGAGTCT		
61027 P	T	S	CGCGCCGAGGATTTAAGGCTCAGCCCAG		
61027 P	C	S	CGCGCCGAGGGTTTAAGGCTCAGCCCAG		
61027 T	T	S	GGAGCTGGGCTGAGCCTTAAATGACTCACAAAGGCGAAAGGAGAGTGTTCCAGTACAGGGC		
61027 T	C	S	GGAGCTGGGCTGAGCCTTAAACGACTCACAAAGGCGAAAGGAGAGTGTTCCAGTACAGGGC		
61027 IS	[TC]		tgtgggctggagcattgagagaacaggagggagctgggctgagccttaaa[TC]gactcacaaaggcgaaaggagagtgttccagtacagggcacagcagaggc	ctg13655	10
61042 I		S	ATAGAATGCTGTGTAGCTATCCAGAGGGAAATAAGAAAGCTTTATGTATAA		
61042 P	G	S	CGCGCCGAGGCAGATGCCCCTTGACTTATG		
61042 P	A	S	CGCGCCGAGGTAGATGCCCCTTGACTTATGA		
61042 T	G	S	TAATTCATAAGTCAAGGGGCATCTGTATACATAAAGCTTTCTTATTTCCCTCTGGATAGCTACACAGCATTCTAT		
61042 T	A	S	TAATTCATAAGTCAAGGGGCATCTATATACATAAAGCTTTCTTATTTCCCTCTGGATAGCTACACAGCATTCTAT		
61042 IS	[GA]		gaatttatcaggacataaaccacicatatatcataagtcaaggggcatct[GA]tatacataaagcttictiattticcctctggatagctacacagcattctat	ctg13655	10
61045 I		A	AAAAGTAGACAAGCTCAGACACAATTTCATGTCCAAAACTTAAGTAAGCTT		
61045 P	G	A	CGCGCCGAGGGTCTGCTGGCCTAGGGY		
61045 P	A	A	CGCGCCGAGGATCTGCTGGCCTAGGGY		
61045 T	G	A	TTGTCCCTAGGCCAGCAGACAGCTTACTTAAGTTTTGGACATGAAATTGTGTCTGAGCTTGTCTACTTTT		
61045 T	A	A	TTGTCCCTAGGCCAGCAGATAGCTTACTTAAGTTTTGGACATGAAATTGTGTCTGAGCTTGTCTACTTTT		
61045 IS	[GA]		aaaagtagacaagctcagacacaatttcatgtccaaaacttaagtaagct[GA]ctgctgggcctagggacaaaatctgtactcccctactatgactgggat	ctg16537	20
61046 I		A	TTATCGATAAAATGAGAGGTTTCTCCATTCTAGTTCTGAACTGTTTTTCAC		
61046 P	A	A	CGCGCCGAGGACTTGCTAAATTAAAACCAGGAAAG		
61046 P	T	A	CGCGCCGAGGTCTTGCTAAATTAAAACCAGGAAAG		
61046 T	A	A	AATACTTTCCTGGTTTTAATTTAGCAAGTTGAAAAACAGTTCAGAACTAGAATGGAGAAACCTCTCATTTTATCGATAA		
61046 T	T	A	AATACTTTCCTGGTTTTAATTTAGCAAGATGAAAAACAGTTCAGAACTAGAATGGAGAAACCTCTCATTTTATCGATAA		
61046 IS	[AT]		tiatcgataaaatgagaggtttctccattctagttctgaactgttttca[AT]ctgctaaattaaaaccaggaaagtattatgtaacaaacttattcctat	ctg16586	20
61047 I		S	GATGCCATTCACAGAGGGTATTTTTTTTAATTTCTAATGGGAACACTTTAA		
61047 P	A	S	CGCGCCGAGGTACCTTCAATGAGCTCTGTAATC		
61047 P	G	S	CGCGCCGAGGCACCTTCAATGAGCTCTGTAAT		
61047 T	A	S	TTTAGATTACAGAGCTCATTGAAGGTATAAAGTGTTCCCATTAGAAATTAAAAAAAATACCCTCTGTGAATGGCATC		
61047 T	G	S	TTTAGATTACAGAGCTCATTGAAGGTGTAAAGTGTTCCCATTAGAAATTAAAAAAAATACCCTCTGTGAATGGCATC		
61047 IS	[AG]		tactggcagagttgtacagatggttagattacagagctcattgaaggt[AG]taaagtgttcccattagaaattaaaaaaaaatacccictgtgaatggcatc	ctg53	14
61053 I		A	GCCCCGCCAGCTGGGGGCA		
61053 P	T	A	CGCGCCGAGGTCAAGACTTCCTACAGAAGTGC		
61053 P	C	A	CGCGCCGAGGCCAAGACTTCCTACAGAAGTG		
61053 T	T	A	CTGGGCACTTCTGTAGGAAGTCTTGAGCCCCCAGCTGGCGGGGCTA		
61053 T	C	A	CTGGGCACTTCTGTAGGAAGTCTTGGGCCCCCAGCTGGCGGGGCTA		
61053 IS	[TC]		tgcctggcagtgatggatgtgcagctgctagcccgccagctggggct[TC]caagacttcctacagaagtgcccagtgggggaggcatgctcgaggggcctg	ctg53	14
61055 I		A	TCCCAGGGCCCAGCACTGGCTA		
61055 P	C	A	CGCGCCGAGGCTCTGAGACTGTAGGCTCTG		
61055 P	T	A	CGCGCCGAGGTTCTGAGACTGTAGGCTCTG		
61055 T	C	A	CCCCCAGAGCCTACAGTCTCAGAGAGCCAGTGCTGGGCCCTGGGAAC		
61055 T	T	A	CCCCCAGAGCCTACAGTCTCAGAAAGCCAGTGCTGGGCCCTGGGAAC		
61055 IS	[CT]		nnnnnnnnnataatcgggggtgcccagaagttcccagggcccagcactggct[CT]ctgagactgtaggctctgggggagggtgggcttagggaaggtgtctgt	ctg53	14
61057 I		A	GCCAGCCAGGCACCGCACTCCA		
61057 P	C	A	CGCGCCGAGGCGCTTCCAACAGCCTG		
61057 P	T	A	CGCGCCGAGGTGCTTCCAACAGCCTG		
61057 T	C	A	GGCACAGGCTGTTGGAAGCGGGAGTGCGGTGCCTGGCTGGCCT		

FIGURE 129D

61057 T	T	A	GGCACAGGCTGTTGGAAGCAGGAGTGCGGTGCCTGGCTGGCCT			
61057 IS	[CT]		ccccagtgttcccaaaacctgctgcaaaggccagccaggcaccgcactcc[CT]gcttccaacagcctgtgcccttaactgtctgctcaggtattccogtgtcc	ctg21fin2	21
61059 I		S	TCCAGCTCCCAGCTGCAGCCCTGT		
61059 P	C	S	CGCGCCGAGGGACCAGGCTCAGAGTGA		
61059 P	T	S	CGCGCCGAGGAACCAGGCTCAGAGTGAG		
61059 T	C	S	AGTGCTCACTCTGAGCCTGGTCCAGGGCTGCAGCTGGGAGCTGGAGC		
61059 T	T	S	AGTGCTCACTCTGAGCCTGGTTCAGGGCTGCAGCTGGGAGCTGGAGC		
61059 IS	[CT]		aggcttgattagtcaatagatatttcctagtgctcactctgagcctggt[CT]cagggctgcagctgggagctgggagctcaggatgagtcaaccaggagctgc	ctg21fin2	21
61061 I		A	TGACATTTATTTTCTCATATCAACCCTGTTTACACGTGAAACACAATCTCT		
61061 P	G	A	CGCGCCGAGGGCTCTTGAAGTCTTAACTGCA		
61061 P	A	A	CGCGCCGAGGACTCTTGAAGTCTTAACTGCATG		
61061 T	G	A	AGATCATGCAGTTAAGACTTCAAGAGCGAGATTGTGTTTCACGTGTAAACAGGGTTGATATGAGAAAATAAATGTCA		
61061 T	A	A	AGATCATGCAGTTAAGACTTCAAGAGTGAGATTGTGTTTCACGTGTAAACAGGGTTGATATGAGAAAATAAATGTCA		
61061 IS	[GA]		tgacattiatttttctcatatcaaccctgtttacacgtgaaacacaatctc[GA]ctcttgaagtcttaactgcatgatctgtgaaacctgtatttatatttct	ctg21fin2	21
61063 I		A	GGCATTCTTCATCAGCACCTGCCATAATGCACATTCATTT		
61063 P	A	A	CGCGCCGAGGAATCAAATGAATATGCCAGATATTTTTCA		
61063 P	G	A	CGCGCCGAGGGATCAAATGAATATGCCAGATATTTTTCA		
61063 T	A	A	TTTTTGAAAAATATCTGGCATATTCATTTGATTAATGAATGTGCATTATGGCAGGTGCTGATGAAGAATGCCAT		
61063 T	G	A	TTTTTGAAAAATATCTGGCATATTCATTTGATCAATGAATGTGCATTATGGCAGGTGCTGATGAAGAATGCCAT		
61063 IS	[AG]		ttaatatgtatggcattcttcatcagcacctgccataatgcacattcatt[AG]atcaaatgaatatgccagatatttttcaaaaagtctgaaaccatttttaga	ctg21fin2	21
61068 I		A	TGAGAATTTGAAATTTGGCAGAGTATACATATAACTTTTTCACTTACACTT		
61068 P	A	A	CGCGCCGAGGAGTCAGTTTTGATTTGTCATAAGC		
61068 P	G	A	CGCGCCGAGGGGTCAGTTTTGATTTGTCATAAGC		
61068 T	A	A	CAAAGCTTATGACAAATCAAAACTGACTAGTGTAAGTGAAAAAGTTATATGTATACTCTGCCAAATTTCAAATTCTCA		
61068 T	G	A	CAAAGCTTATGACAAATCAAAACTGACCAGTGTAAGTGAAAAAGTTATATGTATACTCTGCCAAATTTCAAATTCTCA		
61068 IS	[AG]		tgagaatttgaaattggcagagtatacatataacttttcactcact[AG]gtcagttttgatttgtcataagcttgaataaaagtaccttattacgatt	ctg21fin2	21
61070 I		A	AGGCTAGACAACCAGGGACAGGTGTTACCACAGC		
61070 P	G	A	CGCGCCGAGGGAGACTGTTCAGGGCCT		
61070 P	T	A	CGCGCCGAGGTAGACTGTTCAGGGCCTATT		
61070 T	G	A	CAGAAATAGGCCCTGAACAGTCTCCTGTGGTAACACCTGTCCCTGGTTGTCTAGCCTGA		
61070 T	T	A	CAGAAATAGGCCCTGAACAGTCTACTGTGGTAACACCTGTCCCTGGTTGTCTAGCCTGA		
61070 IS	[GT]		ttaatagcagagttgtcaggctagacaaccagggacaggtgttaccacag[GT]agactgttcagggcctatttctgaacaagaagtctgcaggtattgttctt	ctg21fin2	21
61071 I		A	CAAGAACCTGAACTCTGCCAGTGGTGTGAGCTTCA		
61071 P	C	A	CGCGCCGAGGCAGGAGGATCCCCAGC		
61071 P	T	A	CGCGCCGAGGTAGGAGGATCCCCAGCT		
61071 T	C	A	CCGAAGCTGGGGATCCTCCTGGAAGCTCACACCACTGGCAGAGTTCAGGTTCTTGCA		
61071 T	T	A	CCGAAGCTGGGGATCCTCCTAGAAGCTCACACCACTGGCAGAGTTCAGGTTCTTGCA		
61071 IS	[CT]		ttcagccctgcagctgcaagaacctgaactctgccagtggtgtgagcttc[CT]aggaggatcccccagcttcggatgagactgcagcccagccaacacctcgat	ctg21fin2	21
61074 I		S	GGAAGTTTAGATCTGGTCAGGTTTGGTCTCCAAATGAGTGGA		
61074 P	A	S	CGCGCCGAGGTCAATAAATAAATAAATGCAGATGTCAGT		
61074 P	G	S	CGCGCCGAGGCCAATAAATAAATAAATGCAGATGTCAGT		
61074 T	A	S	TAGAACTGACATCTGCATTTATTTATTTATTGACCACTCATTTGGAGACCAAACCTGACCAGATCTAAACTTCCTT		
61074 T	G	S	TAGAACTGACATCTGCATTTATTTATTTATTGGCCACTCATTTGGAGACCAAACCTGACCAGATCTAAACTTCCTT		
61074 IS	[AG]		agaactgaaaaatcaaatagaactgacatctgcatttatttatttattg[AG]ccactcatttggagaccaaacctgaccagatctaaactcctttggcaaga	ctg21fin2	21
61075 I		S	AGAGGAAATGATCCCTCTTCCAAAAGTAAGCCCTACCTATGCA		
61075 P	G	S	CGCGCCGAGGCTAGGGTTTCAAAACTTCCCA		
61075 P	A	S	CGCGCCGAGGTTAGGGTTTCAAAACTTCCCAC		
61075 T	G	S	GGTTGTGGGAAGTTTTGAAACCCTAGGCATAGGTAGGGCTTACTTTTGGAAGAGGGATCATTTCCTCTGA		
61075 T	A	S	GGTTGTGGGAAGTTTTGAAACCCTAAGCATAGGTAGGGCTTACTTTTGGAAGAGGGATCATTTCCTCTGA		
61075 IS	[GA]		aagaaaccagtccaagagatctccaggttgtgggaagtttgaaacccta[GA]gcataggtagggcttacttttggaagagggatcatttcctctgagctaaa	ctg21fin2	21
61076 I		S	CCCAGGGGATTATAGCGTAGTTCTTCGCCCCTA		
61076 P	A	S	CGCGCCGAGGTCCTTCCATACTTTTTAGGTACG		
61076 P	G	S	CGCGCCGAGGCCCTTCCATACTTTTTAGGTACG		
61076 T	A	S	TGCTCGTACCTAAAAAGTATGGAAGGAAGGGGCGAAGAACTACGCTATAATCCCCTGGGAT		
61076 T	G	S	TGCTCGTACCTAAAAAGTATGGAAGGGAGGGGCGAAGAACTACGCTATAATCCCCTGGGAT		
61076 IS	[AG]		ttaeatacgaaactgtttaccgatgctcgtacctaaaaagtatggaagg[AG]aggggcgaagaactacgctataatccccctgggattgaaaagtttataatc	ctg12616	18
61077 I		S	CCAAGATGGCACAGCACCATGAGATGCAGGAT		
61077 P	C	S	CGCGCCGAGGGAGAAGAAGGCCCCAAC		
61077 P	T	S	CGCGCCGAGGAAGAAGAAGGCCCCAACA		
61077 T	C	S	CCAGTGTTGGGGCCTTCTTCTCTCCTGCATCTCATGGTGCTGTGCCATCTTGGTT		
61077 T	T	S	CCAGTGTTGGGGCCTTCTTCTTTCCTGCATCTCATGGTGCTGTGCCATCTTGGTT		
61077 IS	[CT]		gtgcaatctatacataatggcaactccccagtgttggggcctcttct[CT]tcctgcatctcatggtgctgtgccatcttggtttctcccccacttctctg	ctg15441	5
61093 I		A	GCTGAATGGAGAAAGCTGAGGTGGTTTCTAAGATGGAGAATT		
61093 P	A	A	CGCGCCGAGGAAGACGAAAAATGTAAGTACATTGTTT		
61093 P	C	A	CGCGCCGAGGCAGACGAAAAATGTAAGTACATTGTT		
61093 T	A	A	AGTCAAACAATGTACTTACATTTTTCGTCTTATTCTCCATCTTAGAAACCACCTCAGCTTTCTCCATTCAGCCA		
61093 T	C	A	AGTCAAACAATGTACTTACATTTTTCGTCTGATTCTCCATCTTAGAAACCACCTCAGCTTTCTCCATTCAGCCA		
61093 IS	[AC]		aattttatggctgaatggagaaagctgaggtggtttctaagatggagaat[AC]agacgaaaaatgtaagtacattgtttgactgaattcaagaaagaagggt	ctg15441	5
61094 I		A	GTTCTCCATCATCTGTTGTGGGTCAATTGTGCTTTCTGTTTTTAACAA		
61094 P	T	A	CGCGCCGAGGTCCGTGTTGCTGAAGTCA		
61094 P	C	A	CGCGCCGAGGCCCGTGTTGCTGAAGTC		
61094 T	T	A	GAAATGACTTCAGCAACACGGATGTTAAAAACAGAAAGCACAATTGACCCACAACAGATGATGGAGAACAA		
61094 T	C	A	GAAATGACTTCAGCAACACGGGTGTTAAAAACAGAAAGCACAATTGACCCACAACAGATGATGGAGAACAA		

FIGURE 129D

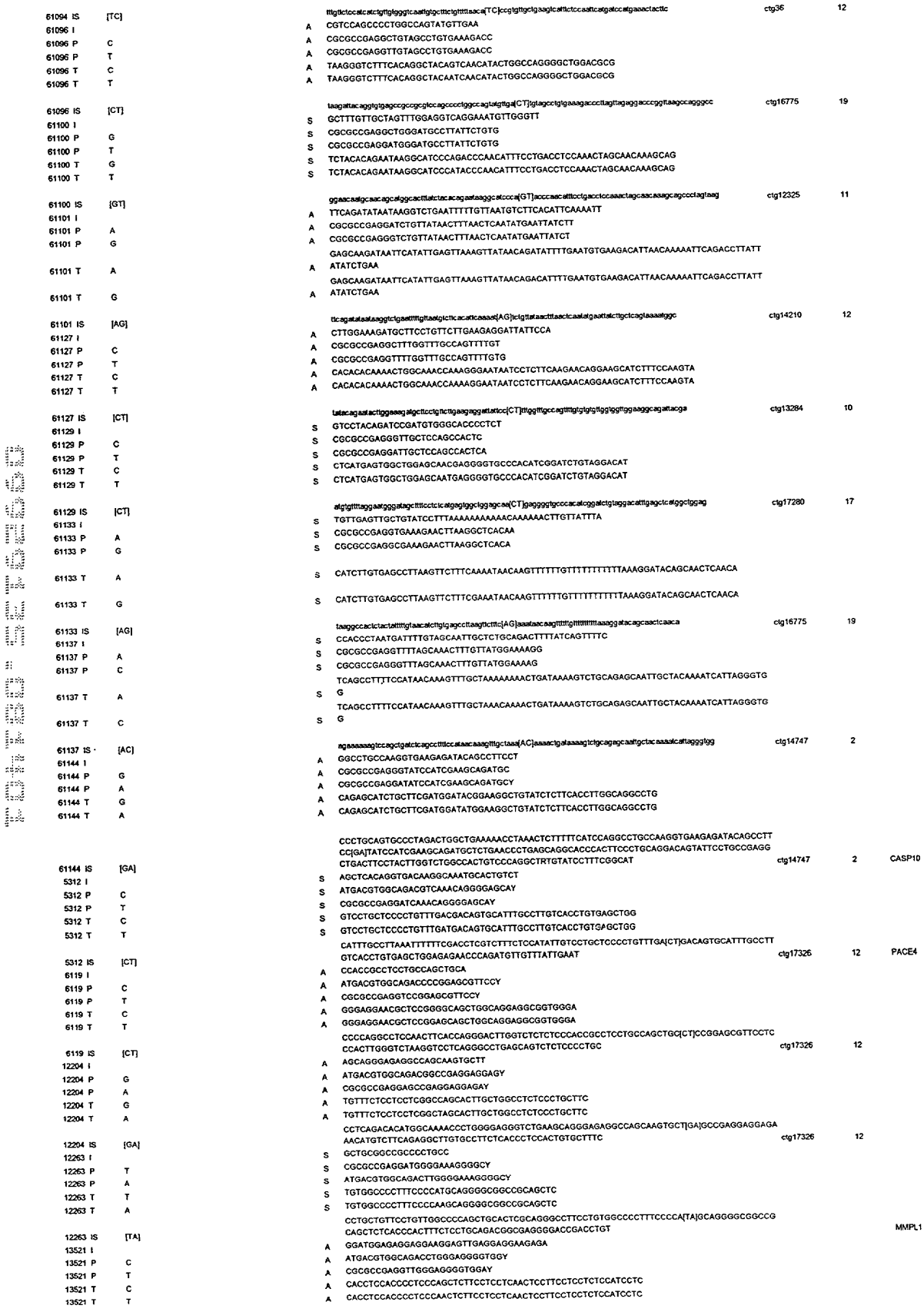

61094 IS [TC]
61096 I
61096 P C
61096 P T
61096 T C
61096 T T
61096 IS [CT]
61100 I
61100 P G
61100 P T
61100 T G
61100 T T
61100 IS [GT]
61101 I
61101 P A
61101 P G
61101 T A
61101 T G
61101 IS [AG]
61127 I
61127 P C
61127 P T
61127 T C
61127 T T
61127 IS [CT]
61129 I
61129 P C
61129 P T
61129 T C
61129 T T
61129 IS [CT]
61133 I
61133 P A
61133 P G
61133 T A
61133 T G
61133 IS [AG]
61137 I
61137 P A
61137 P C
61137 T A
61137 T C
61137 IS [AC]
61144 I
61144 P G
61144 P A
61144 T G
61144 T A
61144 IS [GA]
5312 I
5312 P C
5312 P T
5312 T C
5312 T T
5312 IS [CT]
6119 I
6119 P C
6119 P T
6119 T C
6119 T T
6119 IS [CT]
12204 I
12204 P G
12204 P A
12204 T G
12204 T A
12204 IS [GA]
12263 I
12263 P T
12263 P A
12263 T T
12263 T A
12263 IS [TA]
13521 I
13521 P C
13521 P T
13521 T C
13521 T T
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A CGTCCAGCCCCTGGCCAGTATGTTGAA
A CGCGCCGAGGCTGTAGCCTGTGAAAGACC
A CGCGCCGAGGTTGTAGCCTGTGAAAGACC
A TAAGGGTCTTTCACAGGCTACAGTCAACATACTGGCCAGGGGCTGGACGCG
A TAAGGGTCTTTCACAGGCTACAATCAACATACTGGCCAGGGGCTGGACGCG
taagattacaggtgtgagccgccgcgtccagccccttggccagtatgttga[CT]tgtagcctgtgaaagacccttagttagaggacccggttaagccagggcc ctg16775 19
S GCTTTGTTGCTAGTTTGGAGGTCAGGAAATGTTGGGTT
S CGCGCCGAGGCTGGGATGCCTTATTCTGTG
S CGCGCCGAGGATGGGATGCCTTATTCTGTG
S TCTACACAGAATAAGGCATCCCAGACCCAACATTTCCTGACCTCCAAACTAGCAACAAAGCAG
S TCTACACAGAATAAGGCATCCCATACCCAACATTTCCTGACCTCCAAACTAGCAACAAAGCAG
ggaacaatgcaacagcatggcacttatctacacagaataaggcatccca[GT]acccaacatttcctgacctccaaactagcaacaaagcagcccttagtaag ctg12325 11
A TTCAGATATAATAAGGTCTGAATTTTTGTTAATGTCTTCACATTCAAAATT
A CGCGCCGAGGATCTGTTATAACTTTAACTCAATATGAATTATCTT
A CGCGCCGAGGGTCTGTTATAACTTTAACTCAATATGAATTATCT
A GAGCAAGATAATTCATATTGAGTTAAAGTTATAACAGATATTTTGAATGTGAAGACATTAACAAAAATTCAGACCTTATT ATATCTGAA
A GAGCAAGATAATTCATATTGAGTTAAAGTTATAACAGACATTTTGAATGTGAAGACATTAACAAAAATTCAGACCTTATT ATATCTGAA
ttcagatatataaggtctgaattttgttaatgtcttcacatccaaaa[AG]tctgttataacttaactcaatatgaattatcttgctcagtaaaatggc ctg14210 12
A CTTGGAAAGATGCTTCCTGTTCTTGAAGAGGATTATTCCA
A CGCGCCGAGGCTTTGGTTTGCCAGTTTTGT
A CGCGCCGAGGTTTTGGTTTGCCAGTTTTGTG
A CACACACAAAACTGGCAAACCAAAGGGAATAATCCTCTTCAAGAACAGGAAGCATCTTTCCAAGTA
A CACACACAAAACTGGCAAACCAAAAGGAATAATCCTCTTCAAGAACAGGAAGCATCTTTCCAAGTA
tatacagaatactttggaaagatgcttcctgtctgtgaagaggattatccc[CT]tttggttgccagttttgtgtgttggtggtggaaggcagattacga ctg13284 10
S GTCCTACAGATCCGATGTGGGCACCCCTCT
S CGCGCCGAGGGTTGCTCCAGCCACTC
S CGCGCCGAGGATTGCTCCAGCCACTCA
S CTCATGAGTGGCTGGAGCAACGAGGGGTGCCCACATCGGATCTGTAGGACAT
S CTCATGAGTGGCTGGAGCAATGAGGGGTGCCCACATCGGATCTGTAGGACAT
atgtgtttaggaatgggatagctttcctctcatgagtggctggagcaa[CT]gaggggtgcccacatcggatctgtaggacatttgagctcatggctggag ctg17280 17
S TGTTGAGTTGCTGTATCCTTTAAAAAAAAAAACAAAAAACTTGTTATTTA
S CGCGCCGAGGTGAAAGAACTTAAGGCTCACAA
S CGCGCCGAGGCGAAAGAACTTAAGGCTCACA
S CATCTTGTGAGCCTTAAGTTCTTTCAAAATAACAAGTTTTTTGTTTTTTTTTTTAAAGGATACAGCAACTCAACA
S CATCTTGTGAGCCTTAAGTTCTTTCGAAATAACAAGTTTTTTGTTTTTTTTTTTAAAGGATACAGCAACTCAACA
taaggccactctactatttttgtaacatcttgtgagccttaagttcttc[AG]aaatatacaagttttttgttttttttttaaaggatacagcaactcaaca ctg16775 19
S CCACCCTAATGATTTTGTAGCAATTGCTCTGCAGACTTTTATCAGTTTTC
S CGCGCCGAGGTTTTAGCAAACTTTGTTATGGAAAAGG
S CGCGCCGAGGGTTTAGCAAACTTTGTTATGGAAAAG
S TCAGCCTTTTCCATAACAAAGTTTGCTAAAAAAAACTGATAAAAGTCTGCAGAGCAATTGCTACAAAATCATTAGGGTG
S G
TCAGCCTTTTCCATAACAAAGTTTGCTAAACAAAACTGATAAAAGTCTGCAGAGCAATTGCTACAAAATCATTAGGGTG
S G
agaaaaaagtccagctgatctcagccttttccataacaaagtttgctaaa[AC]aaaactgataaaagtctgcagagcaattgctacaaaatcattagggtgg ctg14747 2
A GGCCTGCCAAGGTGAAGAGATACAGCCTTCCT
A CGCGCCGAGGGTATCCATCGAAGCAGATGC
A CGCGCCGAGGATATCCATCGAAGCAGATGCY
A CAGAGCATCTGCTTCGATGGATACGGAAGGCTGTATCTCTTCACCTTGGCAGGCCTG
A CAGAGCATCTGCTTCGATGGATATGGAAGGCTGTATCTCTTCACCTTGGCAGGCCTG
CCCTGCAGTGCCCTAGACTGGCTGAAAAACCTAAACTCTTTTTCATCCAGGCCTGCCAAGGTGAAGAGATACAGCCTT
CC[GA]TATCCATCGAAGCAGATGCTCTGAACCCTGAGCAGGCACCCACTTCCCTGCAGGACAGTATTCCTGCCGAGG
CTGACTTCCTACTTGGTCTGGCCACTGTCCCAGGCTRTGTATCCTTTCGGCAT ctg14747 2 CASP10
S AGCTCACAGGTGACAAGGCAAATGCACTGTCT
S ATGACGTGGCAGACGTCAAACAGGGGAGCAY
S CGCGCCGAGGATCAAACAGGGGAGCAY
S GTCCTGCTCCCCTGTTTGACGACAGTGCATTTGCCTTGTCACCTGTGAGCTGG
S GTCCTGCTCCCCTGTTTGATGACAGTGCATTTGCCTTGTCACCTGTGAGCTGG
CATTTGCCTTAAATTTTTTCGACCTCGTCTTTCTCCATATTGTCCTGCTCCCCTGTTTGA[CT]GACAGTGCATTTGCCTT
GTCACCTGTGAGCTGGAGAGAACCCAGATGTTGTTTATTGAAT ctg17326 12 PACE4
A CCACCGCCTCCTGCCAGCTGCA
A ATGACGTGGCAGACCCCGGAGCGTTCCY
A CGCGCCGAGGTCCGGAGCGTTCCY
A GGGAGGAACGCTCCGGGGCAGCTGGCAGGAGGCGGTGGGA
A GGGAGGAACGCTCCGGAGCAGCTGGCAGGAGGCGGTGGGA
CCCCAGGCCTCCAACTTCACCAGGGACTTGGTCTCTCTCCCACCGCCTCCTGCCAGCTGC[CT]CCGGAGCGTTCCTC
CCACTTGGGTCTAAGGTCCTCAGGGCCTGAGCAGTCTCTCCCCTGC ctg17326 12
A AGCAGGGAGAGGCCAGCAAGTGCTT
A ATGACGTGGCAGACGGCCGAGGAGGAGY
A CGCGCCGAGGAGCCGAGGAGGAGAY
A TGTTTCTCCTCCTCGGCCAGCACTTGCTGGCCTCTCCCTGCTTC
A TGTTTCTCCTCCTCGGCTAGCACTTGCTGGCCTCTCCCTGCTTC
CCTCAGACACATGGCAAAACCCTGGGGAGGGTCTGAAGCAGGGAGAGGCCAGCAAGTGCT[GA]GCCGAGGAGGAGA
AACATGTCTTCAGAGGCTTGTGCCTTCTCACCCTCCACTGTGCTTTC ctg17326 12
S GCTGCGGCCGCCCCTGCC
S CGCGCCGAGGATGGGGAAAGGGGCY
S ATGACGTGGCAGACTTGGGGAAAGGGGCY
S TGTGGCCCCTTTCCCCATGCAGGGGCGGCCGCAGCTC
S TGTGGCCCCTTTCCCCAAGCAGGGGCGGCCGCAGCTC
CCTGCTGTTCCTGTTGGCCCCAGCTGCACTCGCAGGGCCTTCCTGTGGCCCCTTTCCCCA[TA]GCAGGGGCGGCCG
CAGCTCTCACCCACTTTCTCCTGCAGACGGCGAGGGGACCGACCTGT MMPL1
A GGATGGAGAGGAGGAAGGAGTTGAGGAGGAAGAGA
A ATGACGTGGCAGACCTGGGAGGGGTGGY
A CGCGCCGAGGTTGGGAGGGGTGGAY
A CACCTCCACCCCTCCCAGCTCTTCCTCCTCAACTCCTTCCTCCTCTCCATCCTC
A CACCTCCACCCCTCCCAACTCTTCCTCCTCAACTCCTTCCTCCTCTCCATCCTC

FIGURE 129D

				GGGGAGCAAAGGGGGGCAGGAAGGGAGGATGGAGAGGAGGAAGGAGTTGAGGAGGAAGAG[CT]TGGGAGGGGTG		
13521 IS	[CT]			GAGGTGAGGAGATGGGGGCTAAAGGGGTGTGGTGGAGAGGATAGAGGGG	ctg15944	11
17135 I			S	GCTGACTATTACGAAGACATTGCCAAACTCATTTTGAGACTCGC		
17135 P	A		S	CGCGCCGAGGTTACACAAAAATACCATGGCY		
17135 P	T		S	ATGACGTGGCAGACATACACAAAAATACCATGGCY		
17135 T	A		S	GGTCGCCATGGTATTTTTGTGTAACGAGTCTCAAAATGAGTTTGGCAATGTCTTCGTAATAGTCAGCAT		
17135 T	T		S	GGTCGCCATGGTATTTTTGTGTATCGAGTCTCAAAATGAGTTTGGCAATGTCTTCGTAATAGTCAGCAT		
17135 IS	[AT]			CTAAATGTCCTCCATACCCCCAATGCCTGCTAGGCTGGGTCGCCATGGTATTTTTGTGTA[AT]CGAGTCTCAAAATGA GTTTGGCAATGTCTTCGTAATAGTCAGCATGGTGTAAATGACAGT	ctg15285	12
19447 I			A	AACTCATGCCAGTACAGAGACACAGTGGGGAAT		
19447 P	G		A	ATGACGTGGCAGACGAGCTAATGTCTAAGAAGTTTTGY		
19447 P	C		A	CGCGCCGAGGCAGCTAATGTCTAAGAAGTTTTGY		
19447 T	G		A	TAGACAAAACTTCTTAGACATTAGCTCTTCCCCACTGTGTCTCTGTACTGGCATGAGTTGA		
19447 T	C		A	TAGACAAAACTTCTTAGACATTAGCTGTTCCCCACTGTGTCTCTGTACTGGCATGAGTTGA		
19447 IS	[GC]			CTTATGGGATCCAATCAAAGGCTGCATCAACTCATGCCAGTACAGAGACACAGTGGGGAA[GC]AGCTAATGTCTAAGA AGTTTTGTCTACACGGCAGCAAGTGTGTCAGGAAACAGGCAGATG		
22613 I			A	CTCAAACACTAGTGTTTCCAGGGAGGTGTCTGGAA		
22613 P	C		A	ATGACGTGGCAGACCAGATGACACATTTATGCTGY		
22613 P	T		A	CGCGCCGAGGTAGATGACACATTTATGCTGTAY		
22613 T	C		A	TTACTACAGCATAAATGTGTCATCTGTCCAGACACCTCCCTGGAAACACTAGTGTTTGAGAC		
22613 T	T		A	TTACTACAGCATAAATGTGTCATCTATCCAGACACCTCCCTGGAAACACTAGTGTTTGAGAC		
22613 IS	[CT]			TTGGGGTGGCTTGGGTGGAGGAAGGTCTCAAACACTAGTGTTTCCAGGGAGGTGTCTGGA[CT]AGATGACACATTTA TGCTGTAGTAAGATATCCCACCAGCAAAGGCTTCCAGAAGAGCTTT	ctg16279	17
26225 I			S	AGGTTCTGAATTCATCTAATGGCTGGTTATTTTTACAGATGCCAAGTTC		
26225 P	A		S	CGCGCCGAGGTATAAAACATACAAGTGCACAGAY		
26225 P	C		S	ATGACGTGGCAGACGATAAAACATACAAGTGCACAGY		
26225 T	A		S	CCTGTCTGTGCACTTGTATGTTTTATAAACTTGGCATCTGTAAAAATAACCAGCCATTAGATGAATTCAGAACCTTC		
26225 T	C		S	CCTGTCTGTGCACTTGTATGTTTTATCAACTTGGCATCTGTAAAAATAACCAGCCATTAGATGAATTCAGAACCTTC		
26225 IS	[AC]			CGAACACTCTGTATGTTTCGAGCTACCTCCCACACCTGTCTGTGCACTTGTATGTTTTAT[AC]AACTTGGCATCTGTAA AAATAACCAGCCATTAGATGAATTCAGAACCTTCTAATGAAAAC	ctg16279	17
26583 I			S	AATTTCAAAGGGTCACCTTATCCCTTCACCCAATGTTGATT		
26583 P	T		S	CGCGCCGAGGATTTTTTCCAACTCAAATATCTATTGY		
26583 P	C		S	ATGACGTGGCAGACGTTTTTTCCAACTCAAATATCTATTGY		
26583 T	T		S	TTAGCAATAGATATTTGAGTTGGAAAAAATATCAACATTGGGTGAAGGGATAAGGTGACCCTTTGAAATTGC		
26583 T	C		S	TTAGCAATAGATATTTGAGTTGGAAAAAACATCAACATTGGGTGAAGGGATAAGGTGACCCTTTGAAATTGC		
26583 IS	[TC]			AAATATATTTCATCCAATCGTTACAAACAGCTTAGCAATAGATATTTGAGTTGGAAAAAA[TC]ATCAACATTGGGTGAAG GGATAAGGTGACCCTTTGAAATTGCCTGCAGCACTAACAGAAA	ctg13446	1
27569 I			A	TCGGGGGGAGAGTTCAGGGGCAGT		
27569 P	G		A	ATGACGTGGCAGACGGGTGGTAGGTGGAGY		
27569 P	A		A	CGCGCCGAGGAGGTGGTAGGTGGAGY		
27569 T	G		A	GCCCCTCCACCTACCACCCCTGCCCCCTGAACTCTCCCCCCGACC		
27569 T	A		A	GCCCCTCCACCTACCACCTCTGCCCCTGAACTCTCCCCCCGACC		
27569 IS	[GA]			TCTTCAATCCCAGCCTGAGAAAATCAAGGGTAGGGGGTCGGGGGGAGAGTTCAGGGGCAG[GA]GGTGGTAGGTGGA GGGGCAGTAGCCCTGAGGTCTTGAAGTCTTTTGCCTGAGGAGGTCAG	ctg15649	2
27657 I			A	AGAGCGATTCAAAGGTTTAGTGAAATTAGCCTCATTCCGTAGACT		
27657 P	G		A	ATGACGTGGCAGACGAGGAATTAAAGGAACAGTGY		
27657 P	A		A	CGCGCCGAGGAAGGAATTAAAGGAACAGTGCY		
27657 T	G		A	ACTGGCACTGTTCCTTTAATTCCTCGTCTACGGAATGAGGCTAATTTCACTAAACCTTTGAATCGCTCTAG		
27657 T	A		A	ACTGGCACTGTTCCTTTAATTCCTTGTCTACGGAATGAGGCTAATTTCACTAAACCTTTGAATCGCTCTAG		
27657 IS	[GA]			TTCTTGAAACATTCCTAGAGCGATTCAAAGGTTTAGTGAAATTAGCCTCATTCCGTAGAC[GA]AGGAATTAAAGGAACA GTGCCAGTCAGGTCCCTGTCCTAAGTTAGAGTGATCTGTAGCAT	ctg14877	1
27676 I			S	CTTTCTTTTTCGAATTACACCATGTGCCCAGGCTACAAAGT		
27676 P	C		S	ATGACGTGGCAGACGCTCTGCAGAAATGTGAY		
27676 P	T		S	CGCGCCGAGGACTCTGCAGAAATGTGACY		
27676 T	C		S	CAGAGTCACATTTCTGCAGAGCCTTTGTAGCCTGGGCACATGGTGTAATTCGAAAAAGAAAGCA		
27676 T	T		S	CAGAGTCACATTTCTGCAGAGTCTTTGTAGCCTGGGCACATGGTGTAATTCGAAAAAGAAAGCA		
27676 IS	[CT]			CCTCCAGCATGGTTAAGGTATCACACGCGTATTTGCCAACAGAGTCACATTTCTGCAGAG[CT]CTTTGTAGCCTGGGC ACATGGTGTAATTCGAAAAAGAAAGCAGTTGTTGGAACAGACTTA	ctg13446	1
36783 I			A	CAGGATGTTTTGGGCTTCAAGGAACCCAATACCTGT		
36783 P	G		A	ATGACGTGGCAGACGCCAAAAGTTATTTGAATGATAGY		
36783 P	C		A	CGCGCCGAGGCCCAAAAGTTATTTGAATGATAGCY		
36783 T	G		A	AAACGCTATCATTCAAATAACTTTTGGCCAGGTATTGGGTTCCTTGAAGCCCAAAACATCCTGAT		
36783 T	C		A	AAACGCTATCATTCAAATAACTTTTGGGCAGGTATTGGGTTCCTTGAAGCCCAAAACATCCTGAT		
36783 IS	[GC]			CCCTGATGCTGTATGAGGATTGTATCAGGATGTTTTGGGCTTCAAGGAACCCAATACCTG[GC]CCAAAAGTTATTTGA ATGATAGCGTTTTATTACTGTATTGTCATTAGCATCTTTTATAAT		
39052 I			A	TGCATGCTCTAGCTCTTTCTAGAATGTTCTTTCCTATCTACTGCATC		
39052 P	G		A	ATGACGTGGCAGACGGGGCTACCTCTTACTTY		
39052 P	T		A	CGCGCCGAGGTGGGCTACCTCTTACTTCY		
39052 T	G		A	AGGAGAAGTAAGAGGTAGCCCCATGCAGTAGATAGGAAAGAACATTCTAGAAAGAGCTAGAGCATGCACA		
39052 T	T		A	AGGAGAAGTAAGAGGTAGCCCAATGCAGTAGATAGGAAAGAACATTCTAGAAAGAGCTAGAGCATGCACA		
39052 IS	[GT]			TCTGGGCGCTTATGTGCATGCTCTAGCTCTTTCTAGAATGTTCTTTCCTATCTACTGCAT[GT]GGGCTACCTCTTACTT CTCCTTATTGACTCATGTCAAGAGCCTCCTTTCCCCTTGCCCCC	ctg15649	2
40005 I			A	GAGATTTAAGGGACGTTCCAAGAATCCAGTAACTTCCTTAAGTGTCT		
40005 P	G		A	ATGACGTGGCAGACGTAAATATTTCTCACTTTACAAAACTTCY		
40005 P	A		A	CGCGCCGAGGATAAATATTTCTCACTTTACAAAACTTCY		
40005 T	G		A	CTCTGAAGTTTTGTAAAGTGAGAAATATTTACGACACTTAAGGAAGTTACTGGATTCTTGGAACGTCCCTTAAATCTCT G		
40005 T	A		A	CTCTGAAGTTTTGTAAAGTGAGAAATATTTATGACACTTAAGGAAGTTACTGGATTCTTGGAACGTCCCTTAAATCTCT G		
40005 IS	[GA]			GAATATGATGAACAGAGATTTAAGGGACGTTCCAAGAATCCAGTAACTTCCTTAAGTGTC[GA]TAAATATTTCTCACTTT ACAAAACTTCAGAGTGAAAATCTATATGTACGTTGGACTGTAT	ctg12567	16
40799 I			S	TCAGTTCTTGGGCAAAGTGAAAAGAAAACATTGTGATTACT		
40799 P	T		S	CGCGCCGAGGAGGGAAAATATTTGTATGGGAY		
40799 P	C		S	ATGACGTGGCAGACGGGGAAAATATTTGTATGGGAY		
40799 T	T		S	TAAGTCCCATACAAATATTTTCCCTGTAATCACAATGTTTTCTTTTCACTTTGCCCAAGAACTGAGT		
40799 T	C		S	TAAGTCCCATACAAATATTTTCCCCGTAATCACAATGTTTTCTTTTCACTTTGCCCAAGAACTGAGT		

FIGURE 129D

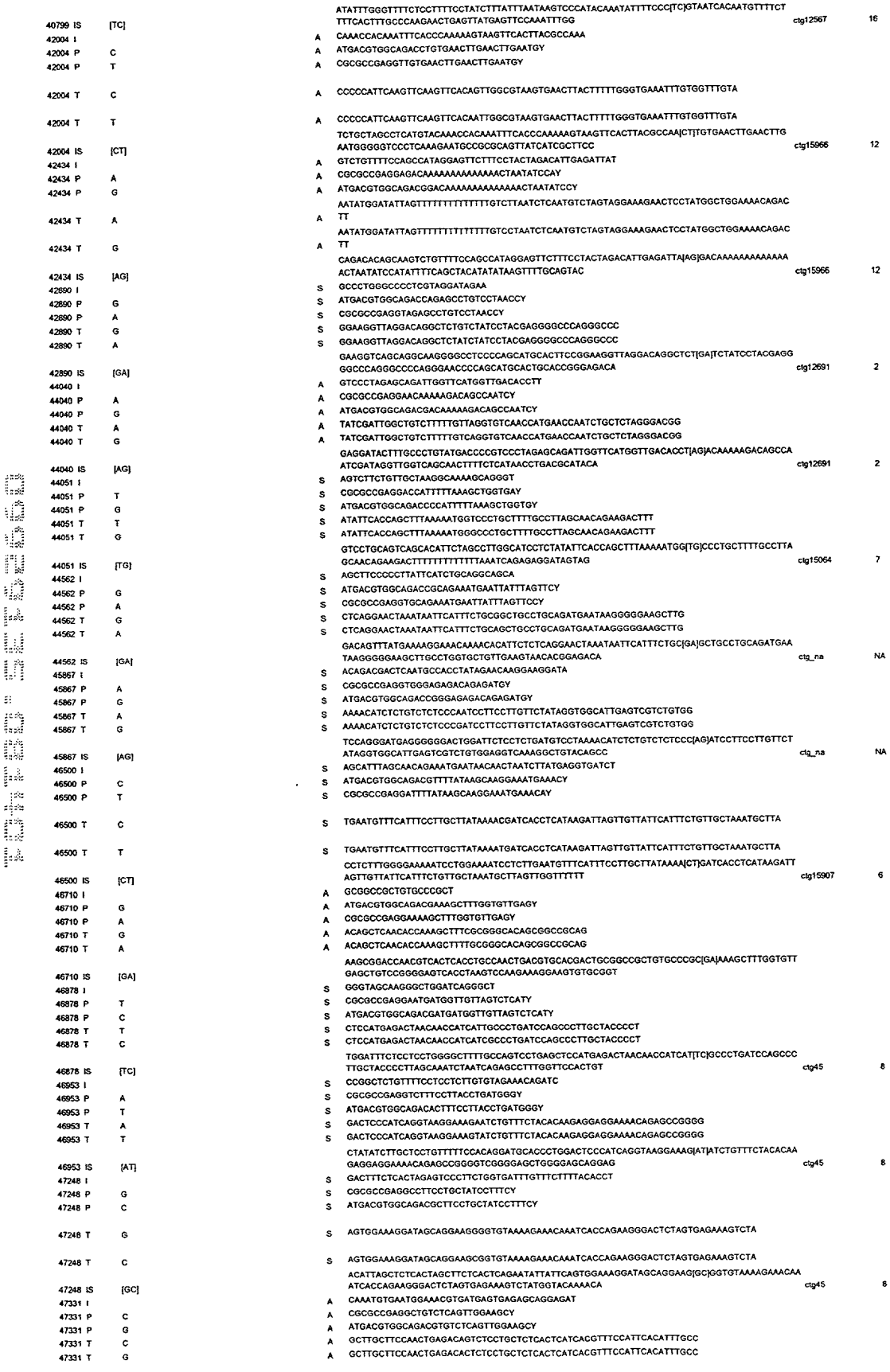

ATATTTGGGTTTTCTCCTTTTCCTATCTTTATTTAATAAGTCCCATACAAATATTTTCCC[TC]GTAATCACAATGTTTTCT
40799 IS [TC] TTTCACTTTGCCCAAGAACTGAGTTATGAGTTCCAAATTTGG ctg12567 16
42004 I A CAAACCACAAATTTCACCCAAAAAGTAAGTTCACTTACGCCAAA
42004 P C A ATGACGTGGCAGACCTGTGAACTTGAACTTGAATGY
42004 P T A CGCGCCGAGGTTGTGAACTTGAACTTGAATGY
42004 T C A CCCCCATTCAAGTTCAAGTTCACAGTTGGCGTAAGTGAACTTACTTTTTGGGTGAAATTTGTGGTTTGTA
42004 T T A CCCCCATTCAAGTTCAAGTTCACAATTGGCGTAAGTGAACTTACTTTTTGGGTGAAATTTGTGGTTTGTA
TCTGCTAGCCTCATGTACAAACCACAAATTTCACCCAAAAAGTAAGTTCACTTACGCCAA[CT]TGTGAACTTGAACTTG
42004 IS [CT] AATGGGGGTCCCTCAAAGAATGCCGCGCAGTTATCATCGCTTCC ctg15966 12
42434 I A GTCTGTTTTCCAGCCATAGGAGTTCTTTCCTACTAGACATTGAGATTAT
42434 P A A CGCGCCGAGGAGACAAAAAAAAAAAAAACTAATATCCAY
42434 P G A ATGACGTGGCAGACGGACAAAAAAAAAAAAACTAATATCCY
AATATGGATATTAGTTTTTTTTTTTTTTGTCTTAATCTCAATGTCTAGTAGGAAAGAACTCCTATGGCTGGAAAACAGAC
42434 T A A TT
AATATGGATATTAGTTTTTTTTTTTTTGTCCTAATCTCAATGTCTAGTAGGAAAGAACTCCTATGGCTGGAAAACAGAC
42434 T G A TT
CAGACACAGCAAGTCTGTTTTCCAGCCATAGGAGTTCTTTCCTACTAGACATTGAGATTA[AG]GACAAAAAAAAAAAA
42434 IS [AG] ACTAATATCCATATTTTCAGCTACATATATAAGTTTTGCAGTAC ctg15966 12
42890 I S GCCCTGGGCCCCTCGTAGGATAGAA
42890 P G S ATGACGTGGCAGACCAGAGCCTGTCCTAACCY
42890 P A S CGCGCCGAGGTAGAGCCTGTCCTAACCY
42890 T G S GGAAGGTTAGGACAGGCTCTGTCTATCCTACGAGGGGCCCAGGGCCC
42890 T A S GGAAGGTTAGGACAGGCTCTATCTATCCTACGAGGGGCCCAGGGCCC
GAAGGTCAGCAGGCAAGGGGCCTCCCCAGCATGCACTTCCGGAAGGTTAGGACAGGCTCT[GA]TCTATCCTACGAGG
42890 IS [GA] GGCCCAGGGCCCCAGGGAACCCCAGCATGCACTGCACCGGGAGACA ctg12691 2
44040 I A GTCCCTAGAGCAGATTGGTTCATGGTTGACACCTT
44040 P A A CGCGCCGAGGAACAAAAAGACAGCCAATCY
44040 P G A ATGACGTGGCAGACGACAAAAAGACAGCCAATCY
44040 T A A TATCGATTGGCTGTCTTTTTGTTAGGTGTCAACCATGAACCAATCTGCTCTAGGGACGG
44040 T G A TATCGATTGGCTGTCTTTTTGTCAGGTGTCAACCATGAACCAATCTGCTCTAGGGACGG
GAGGATACTTTGCCCTGTATGACCCCGTCCCTAGAGCAGATTGGTTCATGGTTGACACCT[AG]ACAAAAAGACAGCCA
44040 IS [AG] ATCGATAGGTTGGTCAGCAACTTTTCTCATAACCTGACGCATACA ctg12691 2
44051 I S AGTCTTCTGTTGCTAAGGCAAAAGCAGGGT
44051 P T S CGCGCCGAGGACCATTTTTAAAGCTGGTGAY
44051 P G S ATGACGTGGCAGACCCCATTTTTAAAGCTGGTGY
44051 T T S ATATTCACCAGCTTTAAAAATGGTCCCTGCTTTTGCCTTAGCAACAGAAGACTTT
44051 T G S ATATTCACCAGCTTTAAAAATGGGCCCTGCTTTTGCCTTAGCAACAGAAGACTTT
GTCCTGCAGTCAGCACATTCTAGCCTTGGCATCCTCTATATTCACCAGCTTTAAAAATGG[TG]CCCTGCTTTTGCCTTA
44051 IS [TG] GCAACAGAAGACTTTTTTTTTTTTTAAATCAGAGAGGATAGTAG ctg15064 7
44562 I S AGCTTCCCCCTTATTCATCTGCAGGCAGCA
44562 P G S ATGACGTGGCAGACCGCAGAAATGAATTATTTAGTTCY
44562 P A S CGCGCCGAGGTGCAGAAATGAATTATTTAGTTCCY
44562 T G S CTCAGGAACTAAATAATTCATTTCTGCGGCTGCCTGCAGATGAATAAGGGGGAAGCTTG
44562 T A S CTCAGGAACTAAATAATTCATTTCTGCAGCTGCCTGCAGATGAATAAGGGGGAAGCTTG
GACAGTTTATGAAAAGGAAACAAAACACATTCTCTCAGGAACTAAATAATTCATTTCTGC[GA]GCTGCCTGCAGATGAA
44562 IS [GA] TAAGGGGGAAGCTTGCCTGGTGCTGTTGAAGTAACACGGAGACA ctg_na NA
45867 I S ACAGACGACTCAATGCCACCTATAGAACAAGGAAGGATA
45867 P A S CGCGCCGAGGTGGGAGAGACAGAGATGY
45867 P G S ATGACGTGGCAGACCGGGAGAGACAGAGATGY
45867 T A S AAAACATCTCTGTCTCTCCCAATCCTTCCTTGTTCTATAGGTGGCATTGAGTCGTCTGTGG
45867 T G S AAAACATCTCTGTCTCTCCCGATCCTTCCTTGTTCTATAGGTGGCATTGAGTCGTCTGTGG
TCCAGGGATGAGGGGGGACTGGATTCTCCTCTGATGTCCTAAAACATCTCTGTCTCTCCC[AG]ATCCTTCCTTGTTCT
45867 IS [AG] ATAGGTGGCATTGAGTCGTCTGTGGAGGTCAAAGGCTGTACAGCC ctg_na NA
46500 I S AGCATTTAGCAACAGAAATGAATAACAACTAATCTTATGAGGTGATCT
46500 P C S ATGACGTGGCAGACGTTTTATAAGCAAGGAAATGAAACY
46500 P T S CGCGCCGAGGATTTTATAAGCAAGGAAATGAAACAY
46500 T C S TGAATGTTTCATTTCCTTGCTTATAAAACGATCACCTCATAAGATTAGTTGTTATTCATTTCTGTTGCTAAATGCTTA
46500 T T S TGAATGTTTCATTTCCTTGCTTATAAAATGATCACCTCATAAGATTAGTTGTTATTCATTTCTGTTGCTAAATGCTTA
CCTCTTTGGGGAAAAATCCTGGAAAATCCTCTTGAATGTTTCATTTCCTTGCTTATAAAA[CT]GATCACCTCATAAGATT
46500 IS [CT] AGTTGTTATTCATTTCTGTTGCTAAATGCTTAGTTGGTTTTTT ctg15907 6
46710 I A GCGGCCGCTGTGCCCGCT
46710 P G A ATGACGTGGCAGACGAAAGCTTTGGTGTTGAGY
46710 P A A CGCGCCGAGGAAAAGCTTTGGTGTTGAGY
46710 T G A ACAGCTCAACACCAAAGCTTTCGCGGGCACAGCGGCCGCAG
46710 T A A ACAGCTCAACACCAAAGCTTTTGCGGGCACAGCGGCCGCAG
AAGCGGACCAACGTCACTCACCTGCCAACTGACGTGCACGACTGCGGCCGCTGTGCCCGC[GA]AAAGCTTTGGTGTT
46710 IS [GA] GAGCTGTCCGGGGAGTCACCTAAGTCCAAGAAAGGAAGTGTGCGGT ctg45 8
46878 I S GGGTAGCAAGGGCTGGATCAGGGCT
46878 P T S CGCGCCGAGGAATGATGGTTGTTAGTCTCATY
46878 P C S ATGACGTGGCAGACGATGATGGTTGTTAGTCTCATY
46878 T T S CTCCATGAGACTAACAACCATCATTGCCCTGATCCAGCCCTTGCTACCCCT
46878 T C S CTCCATGAGACTAACAACCATCATCGCCCTGATCCAGCCCTTGCTACCCCT
TGGATTTCTCCTCCTGGGGCTTTTGCCAGTCCTGAGCTCCATGAGACTAACAACCATCAT[TC]GCCCTGATCCAGCCC
46878 IS [TC] TTGCTACCCCTTAGCAAATCTAATCAGAGCCTTTGGTTCCACTGT ctg45 8
46953 I S CCGGCTCTGTTTTCCTCCTCTTGTGTAGAAACAGATC
46953 P A S CGCGCCGAGGTCTTTCCTTACCTGATGGGY
46953 P T S ATGACGTGGCAGACACTTTCCTTACCTGATGGGY
46953 T A S GACTCCCATCAGGTAAGGAAAGAATCTGTTTCTACACAAGAGGAGGAAAACAGAGCCGGGG
46953 T T S GACTCCCATCAGGTAAGGAAAGTATCTGTTTCTACACAAGAGGAGGAAAACAGAGCCGGGG
CTATATCTTGCTCCTGTTTTTCCACAGGATGCACCCTGGACTCCCATCAGGTAAGGAAAG[AT]ATCTGTTTCTACACAA
46953 IS [AT] GAGGAGGAAAACAGAGCCGGGGTCGGGGAGCTGGGGAGCAGGAG ctg45 8
47248 I S GACTTTCTCACTAGAGTCCCTTCTGGTGATTTGTTTCTTTTACACCT
47248 P G S CGCGCCGAGGCCTTCCTGCTATCCTTTCY
47248 P C S ATGACGTGGCAGACGCTTCCTGCTATCCTTTCY
47248 T G S AGTGGAAAGGATAGCAGGAAGGGGTGTAAAAGAAACAAATCACCAGAAGGGACTCTAGTGAGAAAGTCTA
47248 T C S AGTGGAAAGGATAGCAGGAAGCGGTGTAAAAGAAACAAATCACCAGAAGGGACTCTAGTGAGAAAGTCTA
ACATTAGCTCTCACTAGCTTCTCACTCAGAATATTATTCAGTGGAAAGGATAGCAGGAAG[GC]GGTGTAAAAGAAACAA
47248 IS [GC] ATCACCAGAAGGGACTCTAGTGAGAAAGTCTATGGTACAAAACA ctg45 8
47331 I A CAAATGTGAATGGAAACGTGATGAGTGAGAGCAGGAGAT
47331 P C A CGCGCCGAGGCTGTCTCAGTTGGAAGCY
47331 P G A ATGACGTGGCAGACGTGTCTCAGTTGGAAGCY
47331 T C A GCTTGCTTCCAACTGAGACAGTCTCCTGCTCTCACTCATCACGTTTCCATTCACATTTGCC
47331 T G A GCTTGCTTCCAACTGAGACACTCTCCTGCTCTCACTCATCACGTTTCCATTCACATTTGCC

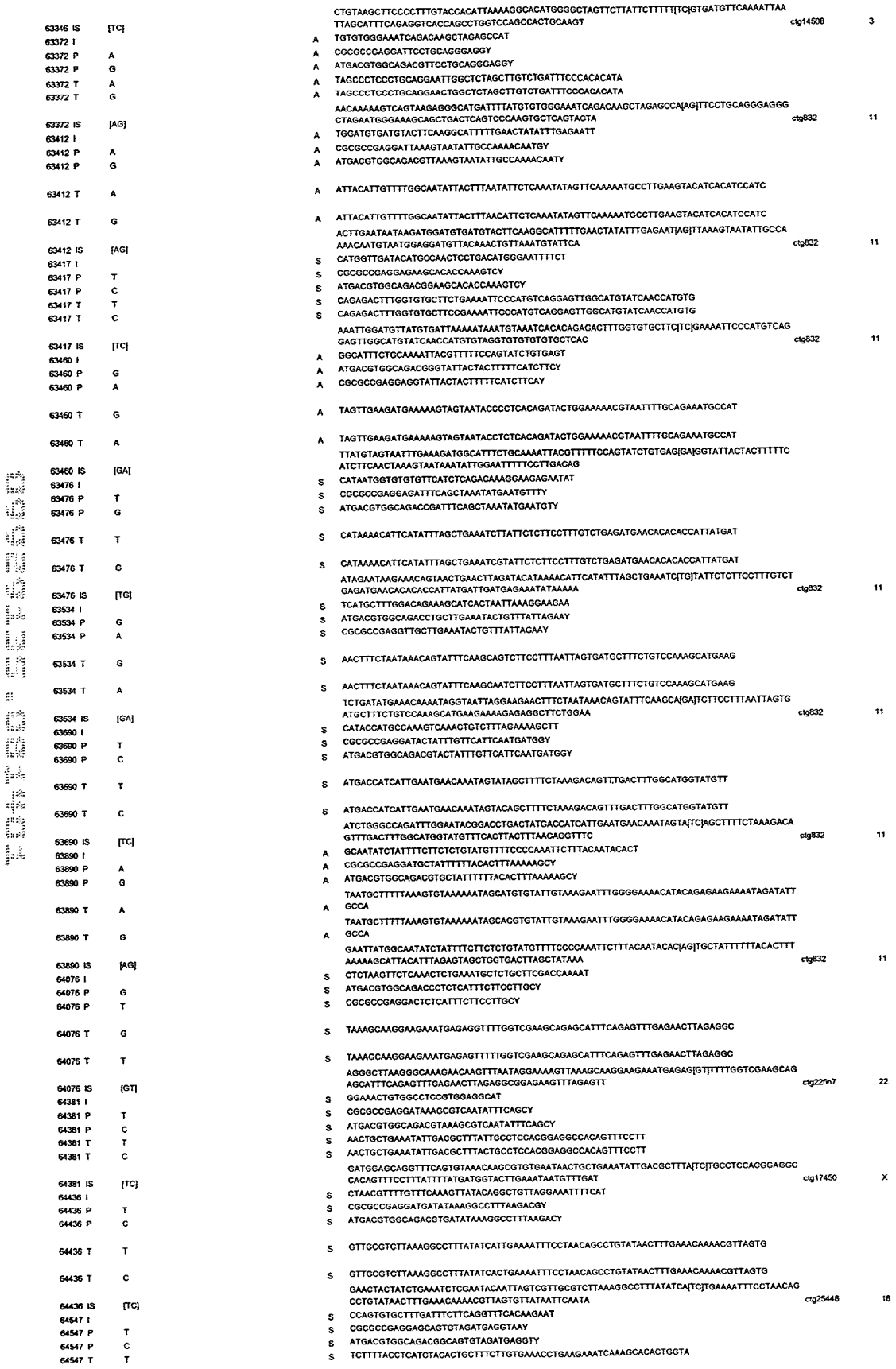
FIGURE 129D

				GGAAAACAAAACTAAACAAAGGCAAATGTGAATGGAAACGTGATGAGTGAGAGCAGGAGA[CG]TGTCTCAGTTGGAAG			
47331	IS	[CG]		CAAGCACAGCAGTCACCACTACTTCATTCAATGACGTCAAGATTT	ctg17403	17	
49625	I		S	AATTTACTTTAGTCATATTTTATATAAAACAAGGGTTAGTATTCATGTAACATTGAGAAGC			
49625	P	A	S	CGCGCCGAGGTTTGGGAATAACAGCAGATATY			
49625	P	C	S	ATGACGTGGCAGACGTTGGGAATAACAGCAGATY			
49625	T	A	S	AATCATATCTGCTGTTATTCCCAAACTTCTCAATGTTACATGAATACTAACCCTTGTTTTATATAAAATATGACTAAAGTA AATT			
49625	T	C	S	AATCATATCTGCTGTTATTCCCAACCTTCTCAATGTTACATGAATACTAACCCTTGTTTTATATAAAATATGACTAAAGTA AATT			
				TCTAAGAAGCTCTTGAGTATGGTTATGACTTTTATTAATCATATCTGCTGTTATTCCCAA[AC]CTTCTCAATGTTACATG			
49625	IS	[AC]		AATACTAACCCTTGTTTTATATAAAATATGACTAAAGTAAATT	MULTIPLE	16	
50886	I		A	GTGGATAGCCGATCCCAGTCATGACTAGTTAGGATCAT			
50886	P	A	A	CGCGCCGAGGATGGACATTAACCTTTTTATTTCTTY			
50886	P	G	A	ATGACGTGGCAGACGTGGACATTAACCTTTTTATTTCTY			
50886	T	A	A	CAGCAAGAAATAAAAAGGTTAATGTCCATTGATCCTAACTAGTCATGACTGGGATCGGCTATCCACCA			
50886	T	G	A	CAGCAAGAAATAAAAAGGTTAATGTCCACTGATCCTAACTAGTCATGACTGGGATCGGCTATCCACCA			
				CCTGACCAGCAAAGTCAAGGATGGTGGATAGCCGATCCCAGTCATGACTAGTTAGGATCA[AG]TGGACATTAACCTTT			
50886	IS	[AG]		TTATTTCTTGCTGTAAAATAGCAAGTTAACATTCTCTCTGATATT	ctg14824	1	
51775	I		S	TCAATACATCCAGAAAAGTGAATATTTGGTGGGGAATCCAGGAT			
51775	P	C	S	ATGACGTGGCAGACGAAGAAAAAGAAAAGCACAATTG			
51775	P	T	S	CGCGCCGAGGAAAGAAAAAGAAAAGCACAATTG			
51775	T	C	S	ATGGCAATTGTGCTTTTCTTTTTCTTCTCCTGGATTCCCCACCAAATATTCACTTTTCTGGATGTATTGATT			
51775	T	T	S	ATGGCAATTGTGCTTTTCTTTTTCTTTTCCTGGATTCCCCACCAAATATTCACTTTTCTGGATGTATTGATT			
				AATGATGATATTTTTAAGATAATTATGGCAATTGTGCTTTTCTTTTTCTT[CT]TCCTGGATTCCCCACCAAATATTCACTT			
51775	IS	[CT]		TTCTGGATGTATTGATTCAACT	ctg14824	1	AGTR1
51780	I		A	ACGAGAGCATCATCTGCGGCATCACGTCA			
51780	P	C	A	ATGACGTGGCAGACCGTGGCCTTCTCCCV			
51780	P	T	A	CGCGCCGAGGTGTGGCCTTCTCCCV			
51780	T	C	A	CTGAGGGAGAAGGCCACGGACGTGATGCCGCAGATGATGCTCTCGTGG			
51780	T	T	A	CTGAGGGAGAAGGCCACAGACGTGATGCCGCAGATGATGCTCTCGTGG			
				GCGGGCAGACCAGGAGCTGATCTGCTTCTCCCACGAGAGCATCATCTGCGGCATCACGTC[CT]GTGGCCTTCTCCCT			
51780	IS	[CT]		CAGTGGCCGCCTACTATTCGCTGGCTACGACGACTTCAACTGCAAT	ctg5305	11	GNB3
51989	I		A	GCTCAGGTTACCCACTGTCTCACTGTTACCAGTATCACT			
51989	P	C	A	ATGACGTGGCAGACCGCATCATTCAACTGGATY			
51989	P	A	A	CGCGCCGAGGAGCATCATTCAACTGGATAAY			
51989	T	C	A	AATGTTATCCAGTTGAATGATGCGGTGATACTGGTAACAGTGAGACAGTGGGTAACCTGAGCCC			
51989	T	A	A	AATGTTATCCAGTTGAATGATGCTGTGATACTGGTAACAGTGAGACAGTGGGTAACCTGAGCCC			
				AGCCCACAGTTCTTCCTGCTGGGCTCAGGTTACCCACTGTCTCACTGTTACCAGTATCAC[CA]GCATCATTCAACTGG			
51989	IS	[CA]		ATAACATTCAGCATTCATACTGCTTTCCAACAACTAACTTGATGT	ctg5305	11	
52155	I		A	TCTCGAATTGCCGATTTGTCCTTCTGTCAGATAAAAA			
52155	P	T	A	CGCGCCGAGGTGCATGAAGTAAGCTGATGY			
52155	P	C	A	ATGACGTGGCAGACCGCATGAAGTAAGCTGATY			
52155	T	T	A	GAATCATCAGCTTACTTCATGCATTTTATCTGACAGAAGGACAAATCGGCAATTCGAGAGA			
52155	T	C	A	GAATCATCAGCTTACTTCATGCGTTTTATCTGACAGAAGGACAAATCGGCAATTCGAGAGA			
				AATCACCTAATAATTCTTTAAGTCTCTCGAATTGCCGATTTGTCCTTCTGTCAGATAAAA[TC]GCATGAAGTAAGCTGAT			
52155	IS	[TC]		GATTCTGAATAGGAACAGAACACGTTCTTGGTTGATTTAAAGT			
52283	I		A	CTCCAGGGCTAGGCAATTAACCTGCACACAAAA			
52283	P	T	A	CGCGCCGAGGTGCAAAACAGATCCACTTTY			
52283	P	C	A	ATGACGTGGCAGACCGCAAAACAGATCCACTY			
52283	T	T	A	TTAAAAAGTGGATCTGTTTTGCATTTGTGTGCAGGTTAATTGCCTAGCCCTGGAGAG			
52283	T	C	A	TTAAAAAGTGGATCTGTTTTGCGTTTGTGTGCAGGTTAATTGCCTAGCCCTGGAGAG			
				GTCCTCTTTCTCGTACCCCCCACAGCCTCTCCAGGGCTAGGCAATTAACCTGCACACAAA[TC]GCAAAACAGATCCAC			
52283	IS	[TC]		TTTTTAAACCTATCAGGATGATTTTCAGATCCTGAAAGACACTGA			
52298	I		S	CGCCAAGCCATGGTCCCTGCACCT			
52298	P	C	S	ATGACGTGGCAGACGAGTCCAGCCTGCTY			
52298	P	T	S	CGCGCCGAGGAAGTCCAGCCTGCTGY			
52298	T	C	S	AAGGCAGCAGGCTGGACTCGGTGCAGGGACCATGGCTTGGCGTG			
52298	T	T	S	AAGGCAGCAGGCTGGACTTGGTGCAGGGACCATGGCTTGGCGTG			
				ACACTCCTCCCCTCCCCCACACTCACAGTCTGTTCACCGCCCAAGGCAGCAGGCTGGACT[CT]GGTGCAGGGACCAT			
52298	IS	[CT]		GGCTTGGCGTGGCCAGGTTGGAGTGGCCCCTGGGACTGAAAGCAGG	ctg15665	20	
52829	I		A	TCTCCACAGGGGAGCATGGCCATCACT			
52829	P	A	A	CGCGCCGAGGACCTCGCTGCCTGY			
52829	P	C	A	ATGACGTGGCAGACCCCTCGCTGCCTGY			
52829	T	A	A	GCTGCAGGCAGCGAGGGTGTGATGGCCATGCTCCCCTGTGGAGAGC			
52829	T	C	A	GCTGCAGGCAGCGAGGGGTGATGGCCATGCTCCCCTGTGGAGAGC			
				GGTGAGCTGAAGGGGTGGCAGGGCAGGAGGTGGCTCTCCACAGGGGAGCATGGCCATCAC[AC]CCTCGCTGCCTG			
52829	IS	[AC]		CAGCAGGCTGTGTGATGGAGCACCTCCAGAGTTCAGTCCTGCACTTTC	ctg15285	12	
61197	I		S	CTTCCCGTCATCCCGTGTCTTGACCCCT			
61197	P	C	S	ATGACGTGGCAGACGCCCTTGCTGTTTCTCY			
61197	P	G	S	CGCGCCGAGGCCCCTTGCTGTTTCTCY			
61197	T	C	S	CTCAGAGAAACAGCAAGGGCGGGGTCAAGACACGGGATGACGGGAAGCA			
61197	T	G	S	CTCAGAGAAACAGCAAGGGGGGGGTCAAGACACGGGATGACGGGAAGCA			
				CGGCCGCTTTCCCTCTGGACCACCTCCCGGTGCGTTTCCTACTCAGAGAAACAGCAAGGG[CG]GGGGTCAAGACACG			
61197	IS	[CG]		GGATGACGGGAAGCAGGAAGCGGGGCAGCAGCACAGCGTGGGGTCC	ctg12387	2	
61321	I		A	AGAATACCAGTGAGGCAGGTGACTTCCTTTGGAAACT			
61321	P	A	A	CGCGCCGAGGAAAGAAATAGAGGAACATTTTCATTY			
61321	P	G	A	ATGACGTGGCAGACGAAGAAATAGAGGAACATTTTCATY			
61321	T	A	A	TCCTAATGAAAATGTTCCTCTATTTCTTTGTTTCCAAAGGAAGTCACCTGCCTCACTGGTATTCTCA			
61321	T	G	A	TCCTAATGAAAATGTTCCTCTATTTCTTCGTTTCCAAAGGAAGTCACCTGCCTCACTGGTATTCTCA			
				CCAAAACTCTCTATTATATGGCTGAGAATACCAGTGAGGCAGGTGACTTCCTTTGGAAAC[AG]AAGAAATAGAGGAAC			
61321	IS	[AG]		ATTTTCATTAGGACACAAACAATAACTAGAATAGTGTTTCAGCTC	MULTIPLE	MULTIPLE	
61440	I		S	TGCTTAACTAACTTGAGCCTTTGCTGTTAATGATATACTTCTTCT			
61440	P	T	S	CGCGCCGAGGAGCCTCCTTCTTTCCTTY			
61440	P	C	S	ATGACGTGGCAGACGGCCTCCTTCTTTCCTY			
61440	T	T	S	AGGAAAGGAAAGAAGGAGGCTGAAGAAGTATATCATTAACAGCAAAGGCTCAAGTTAGTTAAGCAAG			
61440	T	C	S	AGGAAAGGAAAGAAGGAGGCCGAAGAAGTATATCATTAACAGCAAAGGCTCAAGTTAGTTAAGCAAG			
				TCAACAAGATATCGTCACAGAGGACACAATAAAGAAAGCAAGGAAAGGAAAGAAGGAGGC[TC]GAAGAAGTATATCAT			
61440	IS	[TC]		TAACAGCAAAGGCTCAAGTTAGTTAAGCAAGACAAATGTGAGAAA	ctg21fin2	21	
61929	I		S	TGGAAAACCCCCTGGAGGAAGCGCTCA			
61929	P	A	S	CGCGCCGAGGTTGTTGCAGTCGGAGTY			
61929	P	G	S	ATGACGTGGCAGACCTGTTGCAGTCGGAGTY			

FIGURE 129D

61929 T	A	S	GTTCACTCCGACTGCAACAAGAGCGCTTCCTCCAGGGGGTTTTCCAGG				
61929 T	G	S	GTTCACTCCGACTGCAACAGGAGCGCTTCCTCCAGGGGGTTTTCCAGG				
61929 IS	[AG]		CCAGAAAGGAATCCCCCTGCTGGTGGTTAAACAAGACGGGTGTTCACTCCGACTGCAACA[AG]GAGCGCTTCCTCCA GGGGGTTTTCCAGGAAGACCCTGAATGGAGGGCCCTGCAGGAGAGG	ctg17224	X	LOC64167	
61994 I		S	CAAGTTCCTCTGTTCTCCAAATTAAATAAAAAGCAAGAATTCTATTTGTT				
61994 P	T	S	CGCGCCGAGGAGCTCCTGGGAGAGAY				
61994 P	C	S	ATGACGTGGCAGACGGCTCCTGGGAGAGY				
61994 T	T	S	TTACTCTCTCCCAGGAGCTACAAATAGAATTCTTGCTTTTTATTTAATTTGGAGAACAGAGGAACTTGGG				
61994 T	C	S	TTACTCTCTCCCAGGAGCCACAAATAGAATTCTTGCTTTTTATTTAATTTGGAGAACAGAGGAACTTGGG				
61994 IS	[TC]		GCAATTGGGGAATTAATTCTGTAGGGTTGAAACACTGAGACTTTACTCTCTCCCAGGAGC[TC]ACAAATAGAATTCTTG CTTTTTATTTAATTTGGAGAACAGAGGAACTTGGGAATTAGATT	ctg25301	15		
62028 I		S	CTGAATTGCCGGAGTCGCGGCCTCA				
62028 P	G	S	ATGACGTGGCAGACCGCTGTGACCGCCY				
62028 P	A	S	CGCGCCGAGGTGCTGTGACCGCCY				
62028 T	G	S	CGGAGGCGGTCACAGCGGAGGCCGCGACTCCGGCAATTCAGCG				
62028 T	A	S	CGGAGGCGGTCACAGCAGAGGCCGCGACTCCGGCAATTCAGCG				
62028 IS	[GA]		GTGCCGACACGCCCAGTGAGGCCGAACAGAGGTTCCGGAAGAAGCGGAGGCGGTCACAGC[GA]GAGGCCGCGACT CCGGCAATTCAGCGATCTGTGGGTCCGCCTGGAGGAGAGGTCAGGCGA	ctg15343	2		
62478 I		A	TCTTTCTCCTATGAATGAACATAAAAACCTGGTAGAAACAAGCT				
62478 P	C	A	ATGACGTGGCAGACCCATTCTCAGGCTTATAAAACY				
62478 P	A	A	CGCGCCGAGGACATTCTCAGGCTTATAAAACAY				
62478 T	C	A	GGCTTGTTTTATAAGCCTGAGAATGGGCTTGTTTCTACCAGGTTTTTATGTTCATTCATAGGAGAAAGAAT				
62478 T	A	A	GGCTTGTTTTATAAGCCTGAGAATGTGCTTGTTTCTACCAGGTTTTTATGTTCATTCATAGGAGAAAGAAT				
62478 IS	[CA]		TTAATGTACAAAGAGATTCTTTCTCCTATGAATGAACATAAAAACCTGGTAGAAACAAGC[CA]CATTCTCAGGCTTATAA AACAAGCCTTTACAGATAATTATGTTTTATTACTCTTCATTTT	ctg14621	2		
62524 I		A	GAGACAAGCATAAGCAAATATTTAAATACTGTATTTTTTTTAAAAAAAGATTTGATTTGGT				
62524 P	G	A	ATGACGTGGCAGACGGCACCTGCTGCAY				
62524 P	A	A	CGCGCCGAGGAGCACCTGCTGCAY				
62524 T	G	A	GGTTTGCAGCAGGTGCCCCAAATCAAATCTTTTTTTAAAAAAAATACAGTATTTAAATATTTGCTTATGCTTGTCTC				
62524 T	A	A	GGTTTGCAGCAGGTGCTCCAAATCAAATCTTTTTTTAAAAAAAATACAGTATTTAAATATTTGCTTATGCTTGTCTC				
62524 IS	[GA]		GAGACAAGCATAAGCAAATATTTAAATACTGTATTTTTTTTAAAAAAAGATTTGATTTGG[GA]GCACCTGCTGCAAACCT CTCCCACTCAGTATCGCCAAGGCTGTAGGGTCCAGGTGTCCCC	ctg21fin2	21		
62569 I		A	TCCGAGGGTTTGTTCCAGATTGTTTTGGGTAATTTTAAAATTTTATTTCACACTAAA				
62569 P	T	A	CGCGCCGAGGTTTTATTCTAGGAATCGCTTCTY				
62569 P	C	A	ATGACGTGGCAGACCTTTATTCTAGGAATCGCTTCTY				
62569 T	T	A	ATGAAGAAGCGATTCCTAGAATAAAATTAGTGTGAAATAAAATTTTAAAATTACCCAAAACAATCTGGAACAAACCCTCG GATG				
62569 T	C	A	ATGAAGAAGCGATTCCTAGAATAAAGTTAGTGTGAAATAAAATTTTAAAATTACCCAAAACAATCTGGAACAAACCCTCG GATG				
62569 IS	[TC]		GTCATCCGAGGGTTTGTTCCAGATTGTTTTGGGTAATTTTAAAATTTTATTTCACACTAA[TC]TTTATTCTAGGAATCGC TTCTTCATCTTACTGAAGTTTTGATGCGACGTTATAGTTATTT	ctg17326	12		
62730 I		S	GAGGTCAAAGGTGCAGACAGCATTAGGACT				
62730 P	C	S	ATGACGTGGCAGACGAAAGTGAAGAGTGAGGTTTY				
62730 P	T	S	CGCGCCGAGGAAAAGTGAAGAGTGAGGTTTY				
62730 T	C	S	ACCCAAACCTCACTCTTCACTTTCGTCCTAATGCTGTCTGCACCTTTGACCTCAC				
62730 T	T	S	ACCCAAACCTCACTCTTCACTTTTGTCCTAATGCTGTCTGCACCTTTGACCTCAC				
62730 IS	[CT]		ATTATTTTAATATAAACTTTACCCAAATGACAGCCTCACCCAAACCTCACTCTTCACTTT[CT]GTCCTAATGCTGTCTGC ACCTTTGACCTCACATACTATAACATTGGTCCCTTTTAGCTCA	ctg17326	12		
62811 I		S	TCAACTCTAGTCTCTTAGCTAATCTTAACATGTCTCCCTTTCAGTCTGTT				
62811 P	C	S	ATGACGTGGCAGACGCTGATAGAAAACACCTCTCY				
62811 P	T	S	CGCGCCGAGGACTGATAGAAAACACCTCTCTY				
62811 T	C	S	AACTAGAGAGGTGTTTTCTATCAGCACAGACTGAAAGGGAGACATGTTAAGATTAGCTAAGAGACTAGAGTTGAGG				
62811 T	T	S	AACTAGAGAGGTGTTTTCTATCAGTACAGACTGAAAGGGAGACATGTTAAGATTAGCTAAGAGACTAGAGTTGAGG				
62811 IS	[CT]		CAAGGAGGCATCAGAGATACTGAGAAAGGACATGACAACTAGAGAGGTGTTTTCTATCAG[CT]ACAGACTGAAAGGGA GACATGTTAAGATTAGCTAAGAGACTAGAGTTGAGGGGTTAGGAT	ctg17326	12		
63093 I		S	CTGCTCCTTCTAGAAAATGCTCCATGGGACTCTCTCA				
63093 P	G	S	ATGACGTGGCAGACCCATCTCTTGGTGCCAY				
63093 P	A	S	CGCGCCGAGGTCATCTCTTGGTGCCAY				
63093 T	G	S	CAGATGGCACCAAGAGATGGGAGAGAGTCCCATGGAGCATTTTCTAGAAGGAGCAGAT				
63093 T	A	S	CAGATGGCACCAAGAGATGAGAGAGAGTCCCATGGAGCATTTTCTAGAAGGAGCAGAT				
63093 IS	[GA]		GCTCCATTTCCCCACCCAAATGTAGCACGCTGGTGGTATGCCAGATGGCACCAAGAGATG[GA]GAGAGAGTCCCATG GAGCATTTTCTAGAAGGAGCAGATGTCCTTCACAGACTCCTGGAGT	ctg17326	12		
63131 I		S	GCCTGCTCCCAGCAGCGTTTGCCT				
63131 P	T	S	CGCGCCGAGGAGCATTAATTATCATTAAGAGGGY				
63131 P	C	S	ATGACGTGGCAGACGGCATTAATTATCATTAAGAGGGY				
63131 T	T	S	GGCCCCCTCTTAATGATAATTAATGCTGGCAAACGCTGCTGGGAGCAGGCCC				
63131 T	C	S	GGCCCCCTCTTAATGATAATTAATGCCGGCAAACGCTGCTGGGAGCAGGCCC				
63131 IS	[TC]		GTGGAGCAGGGGAGAGTTAGAGAGAGATGAGCAAGGCCCCCTCTTAATGATAATTAATGC[TC]GGCAAACGCTGCTG GGAGCAGGCCCTGGTCTGTATTCATGAGGTGTGGGGGAGTATTGAT				
63288 I		S	GGCCCAGGGAGAAAAAGGGTCATGAATGTAGCT				
63288 P	G	S	CGCGCCGAGGCACTGCTCCCAAAGATGY				
63288 P	C	S	ATGACGTGGCAGACGACTGCTCCCAAAGATGY				
63288 T	G	S	TGCCCATCTTTGGGAGCAGTGGCTACATTCATGACCCTTTTTCTCCCTGGGCCAT				
63288 T	C	S	TGCCCATCTTTGGGAGCAGTCGCTACATTCATGACCCTTTTTCTCCCTGGGCCAT				
63288 IS	[GC]		AAGCGGGGTTGGAGGTGGTTTTCCTGTCGTAGCCTAGATGTGCCCATCTTTGGGAGCAGT[GC]GCTACATTCATGAC CCTTTTTCTCCCTGGGCCATGAATCTGGCCTTTGGAAGAGCTGGGA	ctg17748	14		
63326 I		S	TGGAAGGTGGTATCTGATATGGCCTCTGGGCA				
63326 P	G	S	ATGACGTGGCAGACCTCACTGCCCTTCTAGTY				
63326 P	A	S	CGCGCCGAGGTTCACTGCCCTTCTAGTY				
63326 T	G	S	AGGGACTAGAAGGGCAGTGAGGCCCAGAGGCCATATCAGATACCACCTTCCACA				
63326 T	A	S	AGGGACTAGAAGGGCAGTGAAGCCCAGAGGCCATATCAGATACCACCTTCCACA				
63326 IS	[GA]		TTTCCCTATACCATCTGTGCTAAAATAGCCAAGAGAACACAGGGACTAGAAGGGCAGTGA[GA]GCCCAGAGGCCATAT CAGATACCACCTTCCACAGCCCAGAAGACAAGGGCAGCCTGGAAA	ctg14508	3		
63346 I		A	CTTTGTACCACATTAAAAGGCACATGGGGCTAGTTCTTATTCTTTTTA				
63346 P	T	A	CGCGCCGAGGTGTGATGTTCAAAATTAATTAGCAY				
63346 P	C	A	ATGACGTGGCAGACCGTGATGTTCAAAATTAATTAGCY				
63346 T	T	A	GAAATGCTAATTAATTTTGAACATCACAAAAAAGAATAAGAACTAGCCCCATGTGCCTTTTAATGTGGTACAAAGGG				
63346 T	C	A	GAAATGCTAATTAATTTTGAACATCACGAAAAAGAATAAGAACTAGCCCCATGTGCCTTTTAATGTGGTACAAAGGG				

FIGURE 129D



64547	T	C	S	TCTTTTACCTCATCTACACTGCCTTCTTGTGAAACCTGAAGAAATCAAAGCACACTGGTA			
64547	IS	[TC]		ACACATCATCTTTTCCTTGCTGCATTTTCTCAGTATTCTCTTTTACCTCATCTACACTGC[TC]TTCTTGTGAAACCTGAA GAAATCAAAGCACACTGGTATATTTATAATTGCTTAGATCACA	ctg21fin5	21	
64552	I		S	CATTGCTACATGCTTCTGGGGATTGTCAGGCTGC			
64552	P	A	S	CGCGCCGAGGTGAACAACTACAAAAGGAGCY			
64552	P	T	S	ATGACGTGGCAGACAGAACAACTACAAAAGGAGCY			
64552	T	A	S	TGCAGCTCCTTTTGTAGTTGTTCACAGCCTGACAATCCCCAGAAGCATGTAGCAATGGC			
64552	T	T	S	TGCAGCTCCTTTTGTAGTTGTTCTCAGCCTGACAATCCCCAGAAGCATGTAGCAATGGC			
64552	IS	[AT]		CTTTGGCTGAGATGAGGGCGTCAGGAAAAGCCTGCTGTGCAGCTCCTTTTGTAGTTGTTC[AT]CAGCCTGACAATCCC CAGAAGCATGTAGCAATGGCAGTCCAGGTCAGGTGGATGCTGGGA	ctg14210	12	
64604	I		S	GCTTTCTGGTGGTGGCCTGTTTGAAAGTAAAAACCTGT			
64604	P	G	S	CGCGCCGAGGCTTGGCGTGTAGGTTCY			
64604	P	C	S	ATGACGTGGCAGACGTTGGCGTGTAGGTTCY			
64604	T	G	S	TACGGAACCTACACGCCAAGCAGGTTTTTACTTTCAAACAGGCCACCACCAGAAAGCAA			
64604	T	C	S	TACGGAACCTACACGCCAACCAGGTTTTTACTTTCAAACAGGCCACCACCAGAAAGCAA			
64604	IS	[GC]		ACAGTAAAAGAAAGAGAATTGCTGGTGCTTCTCCAGGGAGATACGGAACCTACACGCCAA[GC]CAGGTTTTTACTTTC AAACAGGCCACCACCAGAAAGCAAAGAGACCTATGCCTAGCCCAG	ctg15944	11	WWOX
64627	I		S	GCATCTCGACGCTACAGAGCCAAGCTCGT			
64627	P	C	S	ATGACGTGGCAGACGGGATCGGCATGAGGY			
64627	P	G	S	CGCGCCGAGGCGGATCGGCATGAGGY			
64627	T	C	S	GGGTCCTCATGCCGATCCCCGAGCTTGGCTCTGTAGCGTCGAGATGCGG			
64627	T	G	S	GGGTCCTCATGCCGATCCGCGAGCTTGGCTCTGTAGCGTCGAGATGCGG			
64627	IS	[CG]		AAACAGCCCCGAGGGAGGCGGGTGTGGCTACTGCTGGTACTGGGGTCCTCATGCCGATCC[CG]CGAGCTTGGCTCT GTAGCGTCGAGATGCGGCGCTGGCAGAGGCCTGGAACGCTGGCCGCA	ctg2712	15	
64667	I		A	GGACCCTGGGCTCTCCCTCCTCGT			
64667	P	G	A	ATGACGTGGCAGACGTTTGGGCTTCAGAGGY			
64667	P	A	A	CGCGCCGAGGATTTGGGCTTCAGAGGAY			
64667	T	G	A	AGGGTCCTCTGAAGCCCAAACCGAGGAGGGAGAGCCCAGGGTCCTC			
64667	T	A	A	AGGGTCCTCTGAAGCCCAAATCGAGGAGGGAGAGCCCAGGGTCCTC			
64667	IS	[GA]		TGGGTGAACTCCTGGCCTCCTGCTGCGAGGCGCCTGAGGACCCTGGGCTCTCCCTCCTCG[GA]TTTGGGCTTCAGA GGACCCTGGGCTCTCCCTCCTCGGTTTGGGCTTCAGAAGGTGGCTCC	ctg15415	X	
64669	I		A	ACCTGCTGAGAGCCCAGAGAGAAATACTACCCTT			
64669	P	G	A	ATGACGTGGCAGACGCAGGGAGATAAGGTCAY			
64669	P	A	A	CGCGCCGAGGACAGGGAGATAAGGTCATCY			
64669	T	G	A	GGTTGATGACCTTATCTCCCTGCAGGGTAGTATTTCTCTCTGGGCTCTCAGCAGGTCT			
64669	T	A	A	GGTTGATGACCTTATCTCCCTGTAGGGTAGTATTTCTCTCTGGGCTCTCAGCAGGTCT			
64669	IS	[GA]		CCACTTCTGGGTGGCAGTGACAGGCAGACCTGCTGAGAGCCCAGAGAGAAATACTACCCT[GA]CAGGGAGATAAGGT CATCAACCTGCCACCACTGGTATATTCCCATAATAATGTCCACTGG	ctg15415	X	
64744	I		S	GTTCTCCTATCAACTTCAAAGCAAGCTTAAAAAAAGCTTTCAGCTTACAAAAATACC			
64744	P	A	S	CGCGCCGAGGTGTGACACGCTTGAAAAAY			
64744	P	T	S	ATGACGTGGCAGACAGTGACACGCTTGAAAAAY			
64744	T	A	S	CATTTTTTTCAAGCGTGTCACAGTATTTTTGTAAGCTGAAAGCTTTTTTTAAGCTTGCTTTGAAGTTGATAGGAGAACCT			
64744	T	T	S	CATTTTTTTCAAGCGTGTCACTGTATTTTTGTAAGCTGAAAGCTTTTTTTAAGCTTGCTTTGAAGTTGATAGGAGAACCT			
64744	IS	[AT]		AATGATAAAAGAAGAGGATGAATGTGGCACTGATAAAAACATTTTTTTCAAGCGTGTCAC[AT]GTATTTTTGTAAGCTGA AAGCTTTTTTTAAGCTTGCTTTGAAGTTGATAGGAGAACCTGC	ctg15415	X	
64770	I		A	CACCATAGGTGAGCCAAATCCGAAGTCCT			
64770	P	C	A	ATGACGTGGCAGACCTCTGTGACAAGTGGCY			
64770	P	A	A	CGCGCCGAGGATCTGTGACAAGTGGCTY			
64770	T	C	A	CATTAGCCACTTGTCACAGAGGGACTTCGGATTTGGCTCACCTATGGTGTA			
64770	T	A	A	CATTAGCCACTTGTCACAGATGGACTTCGGATTTGGCTCACCTATGGTGTA			
64770	IS	[CA]		GGGGGTGTTGTATACCTGGAGTATATAAAATACACCATAGGTGAGCCAAATCCGAAGTCC[CA]TCTGTGACAAGTGGC TAATGGCTCGAGCTAGACAAGCTGTCTTAGAAAAGCTGCTTCTAC	ctg15944	11	
64798	I		A	GGGATCACCCTGCGCATTAACGCTGGT			
64798	P	G	A	ATGACGTGGCAGACGTTCTTGCACGCTGCY			
64798	P	A	A	CGCGCCGAGGATTCTTGCACGCTGCY			
64798	T	G	A	GAACGCAGCGTGCAAGAACCCAGCGTTAATGCGCAGGGTGATCCCGG			
64798	T	A	A	GAACGCAGCGTGCAAGAATCCAGCGTTAATGCGCAGGGTGATCCCGG			
64798	IS	[GA]		GGTGAACACCAGCCAGAGTGTGTAGCCGCCCTCCGGGATCACCCTGCGCATTAACGCTGG[GA]TTCTTGCACGCTGC GTTCTTGGGCCGCTGGCCCCGATGCTGCTCAAGCTGTGGCGCGCCT			MGC2752
65036	I		S	TCTCATTTCCTATCAGAACAGCCTAGCACCTGA			
65036	P	A	S	CGCGCCGAGGTTCTGCAGATTGCTGAAAAY			
65036	P	G	S	ATGACGTGGCAGACCTCTGCAGATTGCTGAAAAY			
65036	T	A	S	AGTGTTTTCAGCAATCTGCAGAACAGGTGCTAGGCTGTTCTGATAGGAAATGAGATT			
65036	T	G	S	AGTGTTTTCAGCAATCTGCAGAGCAGGTGCTAGGCTGTTCTGATAGGAAATGAGATT			
65036	IS	[AG]		CGTTACATCAATTTATATGGTAAGCTGGATCTTGGGCCAGTGTTTTCAGCAATCTGCAGA[AG]CAGGTGCTAGGCTGT TCTGATAGGAAATGAGATTCTAATTTGTCCTGGAAGACTTCCCGT			
65074	I		S	GACTTCAATAATGTGCTATATTTGTAACAAACTCTTTATTTTAAAGGTTAAACAGCTAA			
65074	P	G	S	ATGACGTGGCAGACCCACTGGTGAAACCGY			
65074	P	A	S	CGCGCCGAGGTCACTGGTGAAACCGTY			
65074	T	G	S	AAATACGGTTTCACCAGTGGTAGCTGTTTAACCTTTAAAATAAAGAGTTTGTTACAAATATAGCACATTATTGAAGTCCC			
65074	T	A	S	AAATACGGTTTCACCAGTGATAGCTGTTTAACCTTTAAAATAAAGAGTTTGTTACAAATATAGCACATTATTGAAGTCCC			
65074	IS	[GA]		ATTCATTCACAGATTTGTTGTTATGGTTCTGAACTGAACGCAAATACGGTTTCACCAGTG[GA]TAGCTGTTTAACCTTTA AAATAAAGAGTTTGTTACAAATATAGCACATTATTGAAGTCCC			
65090	I		A	GAAGGGTAAACAGATACGCATGTCTGATGCTCAGTTTTATAGATAGAATTTATGATTC			
65090	P	T	A	CGCGCCGAGGTCAAAGAGGTCCCTGATY			
65090	P	G	A	ATGACGTGGCAGACGCAAAGAGGTCCCTGAY			
65090	T	T	A	ACACATCAGGGACCTCTTTGAAATCATAAATTCTATCTATAAAACTGAGCATCAGACATGCGTATCTGTTTACCCTTCCT			
65090	T	G	A	ACACATCAGGGACCTCTTTGCAATCATAAATTCTATCTATAAAACTGAGCATCAGACATGCGTATCTGTTTACCCTTCC T			
65090	IS	[TG]		CAGGAAGGGTAAACAGATACGCATGTCTGATGCTCAGTTTTATAGATAGAATTTATGATT[TG]CAAAGAGGTCCCTGAT GTGTTCTGTCTGTGGTCTTCAGATATTGTTCCTCCGTTCAGAAG			
65148	I		A	TGGGCATAATTTGAAAGTCAGAATTACTTGGTAGGCACAGGA			
65148	P	T	A	CGCGCCGAGGTGAGAAAAAGCAAGGACGY			
65148	P	C	A	ATGACGTGGCAGACCGAGAAAAAGCAAGGACGY			
65148	T	T	A	TTCCCGTCCTTGCTTTTTCTCACCTGTGCCTACCAAGTAATTCTGACTTTCAAATTATGCCCAGC			
65148	T	C	A	TTCCCGTCCTTGCTTTTTCTCGCCTGTGCCTACCAAGTAATTCTGACTTTCAAATTATGCCCAGC			
65148	IS	[TC]		TCCTAAGGTTAGGAAGAGCTGGGCATAATTTGAAAGTCAGAATTACTTGGTAGGCACAGG[TC]GAGAAAAAGCAAGGA CGGGAAGCATTCTACAAGTGACAGCAAGTTCTAAATTTGAGAAAA			
65193	I		S	AGTTGATCCATCATACAGTTACCATATAAAACTTCCAGGTTTCTTAA			
65193	P	A	S	CGCGCCGAGGTTTGTTTTGGTTTGTGTTTAGAY			
65193	P	G	S	ATGACGTGGCAGACCTTGTTTTGGTTTGTGTTTAGAY			
65193	T	A	S	AAATTCTAAACACAAACCAAAACAAATAAGAAACCTGGAAGTTTTATATGGTAACTGTATGATGGATCAACTAC			

FIGURE 129D

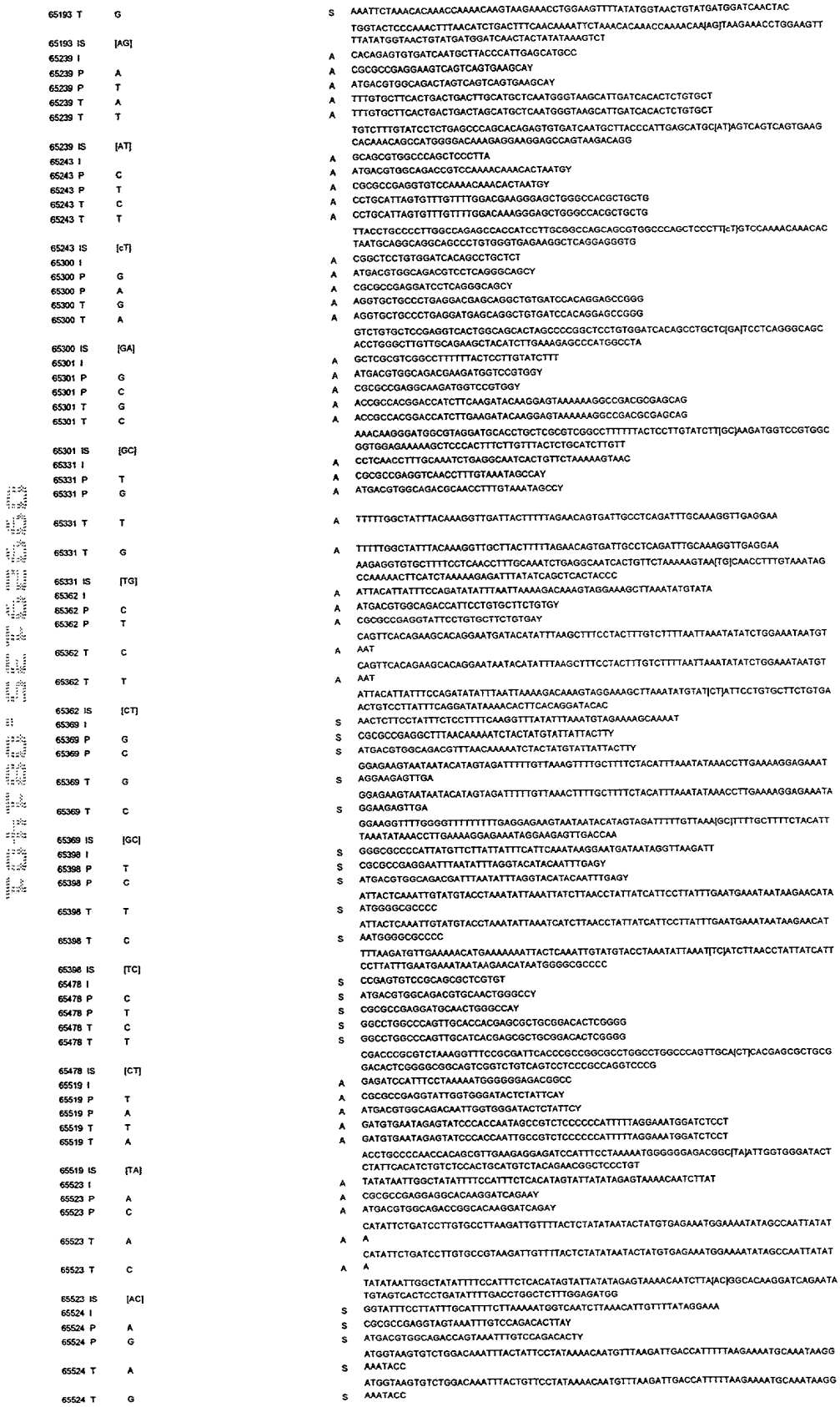

65193 T G
S AAATTCTAAACACAAACCAAAACAAGTAAGAAACCTGGAAGTTTTATATGGTAACTGTATGATGGATCAACTAC
TGGTACTCCCAAACTTTAACATCTGACTTTCAACAAAATTCTAAACACAAACCAAAACAA[AG]TAAGAAACCTGGAAGTT
65193 IS [AG]
TTATATGGTAACTGTATGATGGATCAACTACTATATAAAGTCT
65239 I
A CACAGAGTGTGATCAATGCTTACCCATTGAGCATGCC
65239 P A
A CGCGCCGAGGAAGTCAGTCAGTGAAGCAY
65239 P T
A ATGACGTGGCAGACTAGTCAGTCAGTGAAGCAY
65239 T A
A TTTGTGCTTCACTGACTGACTTGCATGCTCAATGGGTAAGCATTGATCACACTCTGTGCT
65239 T T
A TTTGTGCTTCACTGACTGACTAGCATGCTCAATGGGTAAGCATTGATCACACTCTGTGCT
TGTCTTTGTATCCTCTGAGCCCAGCACAGAGTGTGATCAATGCTTACCCATTGAGCATGC[AT]AGTCAGTCAGTGAAG
65239 IS [AT]
CACAAACAGCCATGGGGACAAAGAGGAAGGAGCCAGTAAGACAGG
65243 I
A GCAGCGTGGCCCAGCTCCCTTA
65243 P C
A ATGACGTGGCAGACCGTCCAAAACAAACACTAATGY
65243 P T
A CGCGCCGAGGTGTCCAAAACAAACACTAATGY
65243 T C
A CCTGCATTAGTGTTTGTTTTGGACGAAGGGAGCTGGGCCACGCTGCTG
65243 T T
A CCTGCATTAGTGTTTGTTTTGGACAAAGGGAGCTGGGCCACGCTGCTG
TTACCTGCCCCTTGGCCAGAGCCACCATCCTTGCGGCCAGCAGCGTGGCCCAGCTCCCTT[cT]GTCCAAAACAAACAC
65243 IS [cT]
TAATGCAGGCAGGCAGCCCTGTGGGTGAGAAGGCTCAGGAGGGTG
65300 I
A CGGCTCCTGTGGATCACAGCCTGCTCT
65300 P G
A ATGACGTGGCAGACGTCCTCAGGGCAGCY
65300 P A
A CGCGCCGAGGATCCTCAGGGCAGCY
65300 T G
A AGGTGCTGCCCTGAGGACGAGCAGGCTGTGATCCACAGGAGCCGGG
65300 T A
A AGGTGCTGCCCTGAGGATGAGCAGGCTGTGATCCACAGGAGCCGGG
GTCTGTGCTCCGAGGTCACTGGCAGCACTAGCCCCGGCTCCTGTGGATCACAGCCTGCTC[GA]TCCTCAGGGCAGC
65300 IS [GA]
ACCTGGGCTTGTTGCAGAAGCTACATCTTGAAAGAGCCCATGGCCTA
65301 I
A GCTCGCGTCGGCCTTTTTTACTCCTTGTATCTTT
65301 P G
A ATGACGTGGCAGACGAAGATGGTCCGTGGY
65301 P C
A CGCGCCGAGGCAAGATGGTCCGTGGY
65301 T G
A ACCGCCACGGACCATCTTCAAGATACAAGGAGTAAAAAAGGCCGACGCGAGCAG
65301 T C
A ACCGCCACGGACCATCTTGAAGATACAAGGAGTAAAAAAGGCCGACGCGAGCAG
AAACAAGGGATGGCGTAGGATGCACCTGCTCGCGTCGGCCTTTTTTACTCCTTGTATCTT[GC]AAGATGGTCCGTGGC
65301 IS [GC]
GGTGGAGAAAAAGCTCCCACTTTCTTGTTTACTCTGCATCTTGTT
65331 I
A CCTCAACCTTTGCAAATCTGAGGCAATCACTGTTCTAAAAAGTAAC
65331 P T
A CGCGCCGAGGTCAACCTTTGTAAATAGCCAY
65331 P G
A ATGACGTGGCAGACGCAACCTTTGTAAATAGCCY
65331 T T
A TTTTTGGCTATTTACAAAGGTTGATTACTTTTTAGAACAGTGATTGCCTCAGATTTGCAAAGGTTGAGGAA
65331 T G
A TTTTTGGCTATTTACAAAGGTTGCTTACTTTTTAGAACAGTGATTGCCTCAGATTTGCAAAGGTTGAGGAA
AAGAGGTGTGCTTTTCCTCAACCTTTGCAAATCTGAGGCAATCACTGTTCTAAAAAGTAA[TG]CAACCTTTGTAAATAG
65331 IS [TG]
CCAAAAACTTCATCTAAAAAGAGATTTATATCAGCTCACTACCC
65362 I
A ATTACATTATTTCCAGATATATTTAATTAAAAGACAAAGTAGGAAAGCTTAAATATGTATA
65362 P C
A ATGACGTGGCAGACCATTCCTGTGCTTCTGTGY
65362 P T
A CGCGCCGAGGTATTCCTGTGCTTCTGTGAY
CAGTTCACAGAAGCACAGGAATGATACATATTTAAGCTTTCCTACTTTGTCTTTTAATTAAATATATCTGGAAATAATGT
65362 T C
A AAT
CAGTTCACAGAAGCACAGGAATAATACATATTTAAGCTTTCCTACTTTGTCTTTTAATTAAATATATCTGGAAATAATGT
65362 T T
A AAT
ATTACATTATTTCCAGATATATTTAATTAAAAGACAAAGTAGGAAAGCTTAAATATGTAT[CT]ATTCCTGTGCTTCTGTGA
65362 IS [CT]
ACTGTCCTTATTTCAGGATATAAAACACTTCACAGGATACAC
65369 I
S AACTCTTCCTATTTCTCCTTTTCAAGGTTTATATTTAAATGTAGAAAAGCAAAAT
65369 P G
S CGCGCCGAGGCTTTAACAAAAATCTACTATGTATTATTACTTY
65369 P C
S ATGACGTGGCAGACGTTTAACAAAAATCTACTATGTATTATTACTTY
GGAGAAGTAATAATACATAGTAGATTTTTGTTAAAGTTTTGCTTTTCTACATTTAAATATAAACCTTGAAAAGGAGAAAT
65369 T G
S AGGAAGAGTTGA
GGAGAAGTAATAATACATAGTAGATTTTTGTTAAACTTTTGCTTTTCTACATTTAAATATAAACCTTGAAAAGGAGAAATA
65369 T C
S GGAAGAGTTGA
GGAAGGTTTTGGGGTTTTTTTTTGAGGAGAAGTAATAATACATAGTAGATTTTTGTTAAA[GC]TTTTGCTTTTCTACATT
65369 IS [GC]
TAAATATAAACCTTGAAAAGGAGAAATAGGAAGAGTTGACCAA
65398 I
S GGGCGCCCCATTATGTTCTTATTATTTCATTCAAATAAGGAATGATAATAGGTTAAGATT
65398 P T
S CGCGCCGAGGAATTTAATATTTAGGTACATACAATTTGAGY
65398 P C
S ATGACGTGGCAGACGATTTAATATTTAGGTACATACAATTTGAGY
ATTACTCAAATTGTATGTACCTAAATATTAAATTATCTTAACCTATTATCATTCCTTATTTGAATGAAATAATAAGAACATA
65398 T T
S ATGGGGCGCCCC
ATTACTCAAATTGTATGTACCTAAATATTAAATCATCTTAACCTATTATCATTCCTTATTTGAATGAAATAATAAGAACAT
65398 T C
S AATGGGGCGCCCC
TTTAAGATGTTGAAAAACATGAAAAAAATTACTCAAATTGTATGTACCTAAATATTAAAT[TC]ATCTTAACCTATTATCATT
65398 IS [TC]
CCTTATTTGAATGAAATAATAAGAACATAATGGGGCGCCCC
65478 I
S CCGAGTGTCCGCAGCGCTCGTGT
65478 P C
S ATGACGTGGCAGACGTGCAACTGGGCCY
65478 P T
S CGCGCCGAGGATGCAACTGGGCCAY
65478 T C
S GGCCTGGCCCAGTTGCACCACGAGCGCTGCGGACACTCGGGG
65478 T T
S GGCCTGGCCCAGTTGCATCACGAGCGCTGCGGACACTCGGGG
CGACCCGCGTCTAAAGGTTTCCGCGATTCACCCGCCGGCGCCTGGCCTGGCCCAGTTGCA[CT]CACGAGCGCTGCG
65478 IS [CT]
GACACTCGGGGCGGCAGTCGGTCTGTCAGTCCTCCCGCCAGGTCCCG
65519 I
A GAGATCCATTTCCTAAAAATGGGGGGAGACGGCC
65519 P T
A CGCGCCGAGGTATTGGTGGGATACTCTATTCAY
65519 P A
A ATGACGTGGCAGACAATTGGTGGGATACTCTATTCY
65519 T T
A GATGTGAATAGAGTATCCCACCAATAGCCGTCTCCCCCCATTTTTAGGAAATGGATCTCCT
65519 T A
A GATGTGAATAGAGTATCCCACCAATTGCCGTCTCCCCCCATTTTTAGGAAATGGATCTCCT
ACCTGCCCCAACCACAGCGTTGAAGAGGAGATCCATTTCCTAAAAATGGGGGGAGACGGC[TA]ATTGGTGGGATACT
65519 IS [TA]
CTATTCACATCTGTCTCCACTGCATGTCTACAGAACGGCTCCCTGT
65523 I
A TATATAATTGGCTATATTTTCCATTTCTCACATAGTATTATATAGAGTAAAACAATCTTAT
65523 P A
A CGCGCCGAGGAGGCACAAGGATCAGAAY
65523 P C
A ATGACGTGGCAGACCGGCACAAGGATCAGAY
CATATTCTGATCCTTGTGCCTTAAGATTGTTTTACTCTATATAATACTATGTGAGAAATGGAAAATATAGCCAATTATAT
65523 T A
A A
CATATTCTGATCCTTGTGCCGTAAGATTGTTTTACTCTATATAATACTATGTGAGAAATGGAAAATATAGCCAATTATAT
65523 T C
A A
TATATAATTGGCTATATTTTCCATTTCTCACATAGTATTATATAGAGTAAAACAATCTTA[AC]GGCACAAGGATCAGAATA
65523 IS [AC]
TGTAGTCACTCCTGATATTTTGACCTGGCTCTTTGGAGATGG
65524 I
S GGTATTTCCTTATTTGCATTTTCTTAAAAATGGTCAATCTTAAACATTGTTTTATAGGAAA
65524 P A
S CGCGCCGAGGTAGTAAATTTGTCCAGACACTTAY
65524 P G
S ATGACGTGGCAGACCAGTAAATTTGTCCAGACACTY
ATGGTAAGTGTCTGGACAAATTTACTATTCCTATAAAACAATGTTTAAGATTGACCATTTTTAAGAAAATGCAAATAAGG
65524 T A
S AAATACC
ATGGTAAGTGTCTGGACAAATTTACTGTTCCTATAAAACAATGTTTAAGATTGACCATTTTTAAGAAAATGCAAATAAGG
65524 T G
S AAATACC

FIGURE 129D

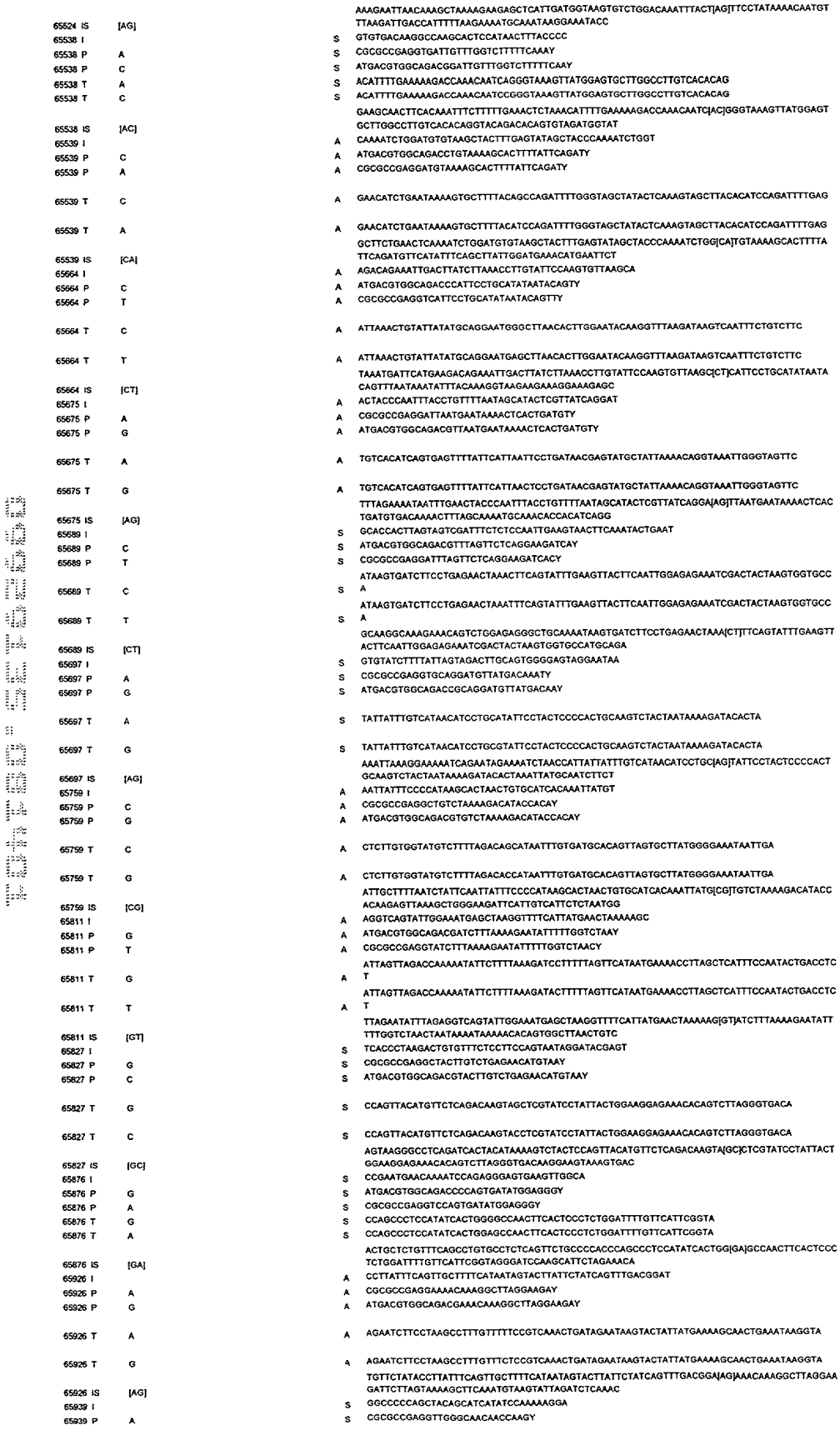

AAAGAATTAACAAAGCTAAAAGAAGAGCTCATTGATGGTAAGTGTCTGGACAAATTTACT[AG]TTCCTATAAAACAATGT
65524 IS [AG] TTAAGATTGACCATTTTTAAGAAAATGCAAATAAGGAAATACC
65538 I S GTGTGACAAGGCCAAGCACTCCATAACTTTACCCC
65538 P A S CGCGCCGAGGTGATTGTTTGGTCTTTTTCAAAY
65538 P C S ATGACGTGGCAGACGGATTGTTTGGTCTTTTTCAAY
65538 T A S ACATTTTGAAAAAGACCAAACAATCAGGGTAAAGTTATGGAGTGCTTGGCCTTGTCACACAG
65538 T C S ACATTTTGAAAAAGACCAAACAATCCGGGTAAAGTTATGGAGTGCTTGGCCTTGTCACACAG
GAAGCAACTTCACAAATTTCTTTTTGAAACTCTAAACATTTTGAAAAAGACCAAACAATC[AC]GGGTAAAGTTATGGAGT
65538 IS [AC] GCTTGGCCTTGTCACACAGGTACAGACACAGTGTAGATGGTAT
65539 I A CAAAATCTGGATGTGTAAGCTACTTTGAGTATAGCTACCCAAAATCTGGT
65539 P C A ATGACGTGGCAGACCTGTAAAAGCACTTTTATTCAGATY
65539 P A A CGCGCCGAGGATGTAAAAGCACTTTTATTCAGATY
65539 T C A GAACATCTGAATAAAAGTGCTTTTACAGCCAGATTTTGGGTAGCTATACTCAAAGTAGCTTACACATCCAGATTTTGAG
65539 T A A GAACATCTGAATAAAAGTGCTTTTACATCCAGATTTTGGGTAGCTATACTCAAAGTAGCTTACACATCCAGATTTTGAG
GCTTCTGAACTCAAAATCTGGATGTGTAAGCTACTTTGAGTATAGCTACCCAAAATCTGG[CA]TGTAAAAGCACTTTTA
65539 IS [CA] TTCAGATGTTCATATTTCAGCTTATTGGATGAAACATGAATTCT
65664 I A AGACAGAAATTGACTTATCTTAAACCTTGTATTCCAAGTGTTAAGCA
65664 P C A ATGACGTGGCAGACCCATTCCTGCATATAATACAGTY
65664 P T A CGCGCCGAGGTCATTCCTGCATATAATACAGTTY
65664 T C A ATTAAACTGTATTATATGCAGGAATGGGCTTAACACTTGGAATACAAGGTTTAAGATAAGTCAATTTCTGTCTTC
65664 T T A ATTAAACTGTATTATATGCAGGAATGAGCTTAACACTTGGAATACAAGGTTTAAGATAAGTCAATTTCTGTCTTC
TAAATGATTCATGAAGACAGAAATTGACTTATCTTAAACCTTGTATTCCAAGTGTTAAGC[CT]CATTCCTGCATATAATA
65664 IS [CT] CAGTTTAATAAATATTTACAAAGGTAAGAAGAAAGGAAAGAGC
65675 I A ACTACCCAATTTACCTGTTTTAATAGCATACTCGTTATCAGGAT
65675 P A A CGCGCCGAGGATTAATGAATAAAACTCACTGATGTY
65675 P G A ATGACGTGGCAGACGTTAATGAATAAAACTCACTGATGTY
65675 T A A TGTCACATCAGTGAGTTTTATTCATTAATTCCTGATAACGAGTATGCTATTAAAACAGGTAAATTGGGTAGTTC
65675 T G A TGTCACATCAGTGAGTTTTATTCATTAACTCCTGATAACGAGTATGCTATTAAAACAGGTAAATTGGGTAGTTC
TTTAGAAAATAATTTGAACTACCCAATTTACCTGTTTTAATAGCATACTCGTTATCAGGA[AG]TTAATGAATAAAACTCAC
65675 IS [AG] TGATGTGACAAAACTTTAGCAAAATGCAAACACCACATCAGG
65689 I S GCACCACTTAGTAGTCGATTTCTCTCCAATTGAAGTAACTTCAAATACTGAAT
65689 P C S ATGACGTGGCAGACGTTTAGTTCTCAGGAAGATCAY
65689 P T S CGCGCCGAGGATTTAGTTCTCAGGAAGATCACY
ATAAGTGATCTTCCTGAGAACTAAACTTCAGTATTTGAAGTTACTTCAATTGGAGAGAAATCGACTACTAAGTGGTGCC
65689 T C S A
ATAAGTGATCTTCCTGAGAACTAAATTTCAGTATTTGAAGTTACTTCAATTGGAGAGAAATCGACTACTAAGTGGTGCC
65689 T T S A
GCAAGGCAAAGAAACAGTCTGGAGAGGGCTGCAAAATAAGTGATCTTCCTGAGAACTAAA[CT]TTCAGTATTTGAAGTT
65689 IS [CT] ACTTCAATTGGAGAGAAATCGACTACTAAGTGGTGCCATGCAGA
65697 I S GTGTATCTTTTATTAGTAGACTTGCAGTGGGGAGTAGGAATAA
65697 P A S CGCGCCGAGGTGCAGGATGTTATGACAAATY
65697 P G S ATGACGTGGCAGACCGCAGGATGTTATGACAAY
65697 T A S TATTATTTGTCATAACATCCTGCATATTCCTACTCCCCACTGCAAGTCTACTAATAAAAGATACACTA
65697 T G S TATTATTTGTCATAACATCCTGCGTATTCCTACTCCCCACTGCAAGTCTACTAATAAAAGATACACTA
AAATTAAAGGAAAAATCAGAATAGAAAATCTAACCATTATTATTTGTCATAACATCCTGC[AG]TATTCCTACTCCCCACT
65697 IS [AG] GCAAGTCTACTAATAAAAGATACACTAAATTATGCAATCTTCT
65759 I A AATTATTTCCCCATAAGCACTAACTGTGCATCACAAATTATGT
65759 P C A CGCGCCGAGGCTGTCTAAAAGACATACCACAY
65759 P G A ATGACGTGGCAGACGTGTCTAAAAGACATACCACAY
65759 T C A CTCTTGTGGTATGTCTTTTAGACAGCATAATTTGTGATGCACAGTTAGTGCTTATGGGGAAATAATTGA
65759 T G A CTCTTGTGGTATGTCTTTTAGACACCATAATTTGTGATGCACAGTTAGTGCTTATGGGGAAATAATTGA
ATTGCTTTTAATCTATTCAATTATTTCCCCATAAGCACTAACTGTGCATCACAAATTATG[CG]TGTCTAAAAGACATACC
65759 IS [CG] ACAAGAGTTAAAGCTGGGAAGATTCATTGTCATTCTCTAATGG
65811 I A AGGTCAGTATTGGAAATGAGCTAAGGTTTTCATTATGAACTAAAAAGC
65811 P G A ATGACGTGGCAGACGATCTTTAAAAGAATATTTTTGGTCTAAY
65811 P T A CGCGCCGAGGTATCTTTAAAAGAATATTTTTGGTCTAACY
ATTAGTTAGACCAAAAATATTCTTTTAAAGATCCTTTTTAGTTCATAATGAAAACCTTAGCTCATTTCCAATACTGACCTC
65811 T G A T
ATTAGTTAGACCAAAAATATTCTTTTAAAGATACTTTTTAGTTCATAATGAAAACCTTAGCTCATTTCCAATACTGACCTC
65811 T T A T
TTAGAATATTTAGAGGTCAGTATTGGAAATGAGCTAAGGTTTTCATTATGAACTAAAAAG[GT]ATCTTTAAAAGAATATT
65811 IS [GT] TTTGGTCTAACTAATAAAATAAAAACACAGTGGCTTAACTGTC
65827 I S TCACCCTAAGACTGTGTTTCTCCTTCCAGTAATAGGATACGAGT
65827 P G S CGCGCCGAGGCTACTTGTCTGAGAACATGTAAY
65827 P C S ATGACGTGGCAGACGTACTTGTCTGAGAACATGTAAY
65827 T G S CCAGTTACATGTTCTCAGACAAGTAGCTCGTATCCTATTACTGGAAGGAGAAACACAGTCTTAGGGTGACA
65827 T C S CCAGTTACATGTTCTCAGACAAGTACCTCGTATCCTATTACTGGAAGGAGAAACACAGTCTTAGGGTGACA
AGTAAGGGCCTCAGATCACTACATAAAAGTCTACTCCAGTTACATGTTCTCAGACAAGTA[GC]CTCGTATCCTATTACT
65827 IS [GC] GGAAGGAGAAACACAGTCTTAGGGTGACAAGGAAGTAAAGTGAC
65876 I S CCGAATGAACAAAATCCAGAGGGAGTGAAGTTGGCA
65876 P G S ATGACGTGGCAGACCCCAGTGATATGGAGGGY
65876 P A S CGCGCCGAGGTCCAGTGATATGGAGGGY
65876 T G S CCAGCCCTCCATATCACTGGGGCCAACTTCACTCCCTCTGGATTTTGTTCATTCGGTA
65876 T A S CCAGCCCTCCATATCACTGGAGCCAACTTCACTCCCTCTGGATTTTGTTCATTCGGTA
ACTGCTCTGTTTCAGCCTGTGCCTCTCAGTTCTGCCCCACCCAGCCCTCCATATCACTGG[GA]GCCAACTTCACTCCC
65876 IS [GA] TCTGGATTTTGTTCATTCGGTAGGGATCCAAGCATTCTAGAAACA
65926 I A CCTTATTTCAGTTGCTTTTCATAATAGTACTTATTCTATCAGTTTGACGGAT
65926 P A A CGCGCCGAGGAAAACAAAGGCTTAGGAAGAY
65926 P G A ATGACGTGGCAGACGAAACAAAGGCTTAGGAAGAY
65926 T A A AGAATCTTCCTAAGCCTTTGTTTTTCCGTCAAACTGATAGAATAAGTACTATTATGAAAAGCAACTGAAATAAGGTA
65926 T G A AGAATCTTCCTAAGCCTTTGTTTCTCCGTCAAACTGATAGAATAAGTACTATTATGAAAAGCAACTGAAATAAGGTA
TGTTCTATACCTTATTTCAGTTGCTTTTCATAATAGTACTTATTCTATCAGTTTGACGGA[AG]AAACAAAGGCTTAGGAA
65926 IS [AG] GATTCTTAGTAAAAGCTTCAAATGTAAGTATTAGATCTCAAAC
65939 I S GGCCCCCAGCTACAGCATCATATCCAAAAAGGA
65939 P A S CGCGCCGAGGTTGGGCAACAACCAAGY

FIGURE 129D

65939	P	G	S	ATGACGTGGCAGACCTGGGCAACAACCAAGY
65939	T	A	S	ATAGCTTGGTTGTTGCCCAACCTTTTTGGATATGATGCTGTAGCTGGGGGCCTT
65939	T	G	S	ATAGCTTGGTTGTTGCCCAGCCTTTTTGGATATGATGCTGTAGCTGGGGGCCTT
65939	IS	[AG]		TTTAGGCCTAGCATCATCCTCATCTCCTAGAAGTGGCCAGAATAGCTTGGTTGTTGCCCA[AG]CCTTTTTGGATATGAT GCTGTAGCTGGGGGCCTTTAGATCCAGGGGTAAGGAGAGTGCTA
65980	I		A	GCAAAGGCTGGAGACCCGGAACCCC
65980	P	T	A	CGCGCCGAGGTCTAAGTCCCAGCCTCY
65980	P	A	A	ATGACGTGGCAGACACTAAGTCCCAGCCTCY
65980	T	T	A	GGCTGAGGCTGGGACTTAGAGGGTTCCGGGTCTCCAGCCTTTGCAG
65980	T	A	A	GGCTGAGGCTGGGACTTAGTGGGTTCCGGGTCTCCAGCCTTTGCAG
65980	IS	[TA]		CCCCCGACAGCAGAGGGCAGCAGCAGAGAGGTACCTGCAAAGGCTGGAGACCCGGAACCC[TA]CTAAGTCCCAGCC TCAGCCTGGGCACTCTGTGAAGTCACCAAGTTAGGTTCAAAAATGAA
66038	I		A	CGTATTGCCTACTCCACCTCCTAACCAAGGACCC
66038	P	T	A	CGCGCCGAGGTCATTCTGAGTTAAAAATCTCAGTY
66038	P	G	A	ATGACGTGGCAGACGCATTCTGAGTTAAAAATCTCAGY
66038	T	T	A	GAACACTGAGATTTTTAACTCAGAATGAGGTCCTTGGTTAGGAGGTGGAGTAGGCAATACGGG
66038	T	G	A	GAACACTGAGATTTTTAACTCAGAATGCGGTCCTTGGTTAGGAGGTGGAGTAGGCAATACGGG
66038	IS	[TG]		TATTTCCTGATGGAACTTTTATGGGCCCGTATTGCCTACTCCACCTCCTAACCAAGGACC[TG]CATTCTGAGTTAAAAA TCTCAGTGTTCAGCTGAAATTATCAAGGGTGGAGAAAGGGCTGG
66048	I		A	TTCTTTGAGAGAGCAGGCAGGAGAGAGGTGTGT
66048	P	G	A	ATGACGTGGCAGACGTGTCTTTTCCCAGAAGAAAY
66048	P	A	A	CGCGCCGAGGATGTCTTTTCCCAGAAGAAAAY
66048	T	G	A	TTTATTTTCTTCTGGGAAAAGACACCACACCTCTCTCCTGCCTGCTCTCTCAAAGAAGA
66048	T	A	A	TTTATTTTCTTCTGGGAAAAGACATCACACCTCTCTCCTGCCTGCTCTCTCAAAGAAGA
66048	IS	[GA]		AAAGTACTACCCTCCCGTGTATTCAATCTTCTTTGAGAGAGCAGGCAGGAGAGAGGTGTG[GA]TGTCTTTTCCCAGAA GAAAATAAAATTTATTCCTCTAAAGGAAAATTAGCTTTATTCAAG
66085	I		A	GTGTGACTGTGCACAGAAATAGTTAGCAAAGGCAACTCTTATC
66085	P	T	A	CGCGCCGAGGTTGACACTAATGGCTGTTACY
66085	P	A	A	ATGACGTGGCAGACATGACACTAATGGCTGTTACY
66085	T	T	A	ACCAGTAACAGCCATTAGTGTCAAATAAGAGTTGCCTTTGCTAACTATTTCTGTGCACAGTCACACAA
66085	T	A	A	ACCAGTAACAGCCATTAGTGTCATATAAGAGTTGCCTTTGCTAACTATTTCTGTGCACAGTCACACAA
66085	IS	[TA]		GAAAACTCAGAGCATGTTGTGTGACTGTGCACAGAAATAGTTAGCAAAGGCAACTCTTAT[TA]TGACACTAATGGCTGT TACTGGTTTCCCATACTAATGAGATCCACCATACCCTATCACAA
66124	I		S	GGAAAGTACCAGGGCTGCCTTGGAGTGGT
66124	P	T	S	CGCGCCGAGGAGAAGGAGGAGTGGCY
66124	P	G	S	ATGACGTGGCAGACCGAAGGAGGAGTGGCY
66124	T	T	S	GGTGGCCACTCCTCCTTCTCCACTCCAAGGCAGCCCTGGTACTTTCCTA
66124	T	G	S	GGTGGCCACTCCTCCTTCGCCACTCCAAGGCAGCCCTGGTACTTTCCTA
66124	IS	[TG]		CTGAGCCTCTTCTTTTAAAGGGCAACCACTTGTATACCCTCTGGTGGCCACTCCTCCTTC[TG]CCACTCCAAGGCAGC CCTGGTACTTTCCTAAGTGGCCCCTCCTACAGAGCACTTGCCGGC
66135	I		S	AGATTATAACTCAAAACTTTTTGAGAGTTCCAGGTCCTCTTTTTTTC
66135	P	A	S	CGCGCCGAGGTAAAAAATTTTCATCTGGTCTCTGY
66135	P	T	S	ATGACGTGGCAGACAAAAAAATTTTCATCTGGTCTCTY
66135	T	A	S	ATTACAGAGACCAGATGAAAATTTTTTAAAAAAAAGAGGACCTGGAACTCTCAAAAAGTTTTGAGTTATAATCTCT
66135	T	T	S	ATTACAGAGACCAGATGAAAATTTTTTTAAAAAAAGAGGACCTGGAACTCTCAAAAAGTTTTGAGTTATAATCTCT
66135	IS	[AT]		CTCAGAAGTGTAGCTTACTTATTAAAATGATTTATTACAGAGACCAGATGAAAATTTTTT[AT]AAAAAAAGAGGACCTGG AACTCTCAAAAAGTTTTGAGTTATAATCTCTGAGAAATATGAA
66181	I		A	GTTGCTCATTTGTCTTTTACATTTAATTTGCAAGCCCCA
66181	P	C	A	ATGACGTGGCAGACCAGTATATAACCTAGGAGGGTAY
66181	P	T	A	CGCGCCGAGGTAGTATATAACCTAGGAGGGTAGY
66181	T	C	A	TCATCTACCCTCCTAGGTTATATACTGGGGGCTTGCAAATTAAATGTAAAAGACAAATGAGCAACAA
66181	T	T	A	TCATCTACCCTCCTAGGTTATATACTAGGGGCTTGCAAATTAAATGTAAAAGACAAATGAGCAACAA
66181	IS	[CT]		AAACTCCCACAAATGTCTTTTTGTTGCTCATTTGTCTTTTACATTTAATTTGCAAGCCCC[CT]AGTATATAACCTAGGAG GGTAGATGAAAAGTTTTCCCTACCCTAGAGTCCAAGAGAGAAA
66192	I		S	CATATGTGTTCTTTTCCCATGGTTATTCAAAGAGGACAT
66192	P	C	S	ATGACGTGGCAGACGTTAAGTTAATTGAACACATGTCAY
66192	P	T	S	CGCGCCGAGGATTAAGTTAATTGAACACATGTCAAY
66192	T	C	S	GCCTTTGACATGTGTTCAATTAACTTAACTGTCCTCTTTGAATAACCATGGGAAAAGAACACATATGCA
66192	T	T	S	GCCTTTGACATGTGTTCAATTAACTTAATTGTCCTCTTTGAATAACCATGGGAAAAGAACACATATGCA
66192	IS	[CT]		TAAACTATCCTCCATGTTCTGAATGCTGGTTAGCCTTTGACATGTGTTCAATTAACTTAA[CT]TGTCCTCTTTGAATAAC CATGGGAAAAGAACACATATGCATAAACATAAAACTATAATCT
66193	I		S	ACTCTAACAGCTGGTACCAAGAGAGGAGAGATGAGTACAATATAGTT
66193	P	C	S	ATGACGTGGCAGACGGAAGCCCTTCAGAAACY
66193	P	T	S	CGCGCCGAGGAGAAGCCCTTCAGAAACAY
66193	T	C	S	CACCTGTTTCTGAAGGGCTTCCACTATATTGTACTCATCTCTCCTCTCTTGGTACCAGCTGTTAGAGTTT
66193	T	T	S	CACCTGTTTCTGAAGGGCTTCTACTATATTGTACTCATCTCTCCTCTCTTGGTACCAGCTGTTAGAGTTT
66193	IS	[CT]		AGGAGTCGGGGCCAGGTATAACCATTTCATCTGAATTTCCACCTGTTTCTGAAGGGCTTC[CT]ACTATATTGTACTCAT CTCTCCTCTCTTGGTACCAGCTGTTAGAGTTTCTTCACATCCTC
66269	I		S	CATGTGGGTTGGCATCTCCCGTGGCT
66269	P	T	S	CGCGCCGAGGAGGATCACAGGGTACTTGY
66269	P	C	S	ATGACGTGGCAGACGGGATCACAGGGTACTTY
66269	T	T	S	TCAACAAGTACCCTGTGATCCTGCCACGGGAGATGCCAACCCACATGCT
66269	T	C	S	TCAACAAGTACCCTGTGATCCCGCCACGGGAGATGCCAACCCACATGCT
66269	IS	[TC]		GACTTCACAGTGCACTGGGGTCTGCCCAGGAGGCTGCCCTCAACAAGTACCCTGTGATCC[TC]GCCACGGGAGATGC CAACCCACATGCTTTGCGTCTGCATGTCTATGATGAGATGGGATAT
66273	I		A	AGCAGGGAGGCAGGAAGGAGAATTTGAGGTACT
66273	P	A	A	CGCGCCGAGGACATGACCTTTGAGTTCTGY
66273	P	C	A	ATGACGTGGCAGACCCATGACCTTTGAGTTCTGY
66273	T	A	A	TTGCCAGAACTCAAAGGTCATGTGTACCTCAAATTCTCCTTCCTGCCTCCCTGCTCA
66273	T	C	A	TTGCCAGAACTCAAAGGTCATGGGTACCTCAAATTCTCCTTCCTGCCTCCCTGCTCA
66273	IS	[AC]		GGGGAGGAGCCTTCTGTTCATGGGGGTGAGCAGGGAGGCAGGAAGGAGAATTTGAGGTAC[AC]CATGACCTTTGAG TTCTGGCAAAGGACTCCCCAACTATGCCTCACCAATCTGTGACAGGG
7204	I		S	GGTGCAGGTGCGGAGGTGCACCT
7204	P	G	S	CGCGCCGAGGCTCAGATTCCAGGCCGT
7204	P	T	S	CGCGCCGAGGATCAGATTCCAGGCCGT
7204	T	G	S	GATGACGGCCTGGAATCTGAGGGTGCACCTCCGCACCTGCACCAC
7204	T	T	S	GATGACGGCCTGGAATCTGATGGTGCACCTCCGCACCTGCACCAC
7204	IS	[GT]		GATCTAACTGAGGGTGCACCACGGAACGCTGATGACGGCCTGGAATCTGA[GT]GGTGCACCTCCGCACCTGCACCAC GGAATGCCGATGACGGCCCAGCAGGT

FIGURE 129D

14968 I		S	CAGGGTAGAGGTGATTCACACTGACCGGTCACTACT
14968 P	T	S	CGCGCCGAGGACACACTTCAACCTTTATTCCTATAC
14968 P	C	S	CGCGCCGAGGGCACACTTCAACCTTTATTCCT
14968 T	T	S	GTCTGTATAGGAATAAAGGTTGAAGTGTGTGTAGTGACCGGTCAGTGTGAATCACCTCTACCCTGTG
14968 T	C	S	GTCTGTATAGGAATAAAGGTTGAAGTGTGCGTAGTGACCGGTCAGTGTGAATCACCTCTACCCTGTG
14968 IS	[TC]		gatctctgcctgctaggtcctgtctgtatagggaataaaggttgaagtgtg[TC]gtagtgaccggtcagtgtgaatcacctctaccctgtgtagcccaacaggc
28892 I		S	CAGAGCACTGACCCTCCCCTCCCAGAAT
28892 P	G	S	CGCGCCGAGGCGGGCCTCTGCCC
28892 P	C	S	CGCGCCGAGGGGGGCCTCTGCCC
28892 T	G	S	TGATGGGCAGAGGCCCGTTCTGGGAGGGGAGGGTCAGTGCTCTGTG
28892 T	C	S	TGATGGGCAGAGGCCCCTTCTGGGAGGGGAGGGTCAGTGCTCTGTG
28892 IS	[GC]		CGCGGGCTGGGCCAAAGCGGGGCCCGGTGGGCCGCTGGGAGGCTGCCCACCAGTCAGCCATCGGCCAAGCTGTTG CCCTGGCTGACCCTGATGGCCAACAAGGCCGTAGGGAGTGATGGGCAGAGGCCC[GC]TTCTGGGAGGGGAGGGTC AGTGCTCTGTGGGGGACCGTRTGTTGGAGTGGAGGGCAGCAGGAGGAG
37649 I		A	CAAAAGTAAATGCTATATAACCAGCACCCATGCCAGCTCTGT
37649 P	INS	A	CGCGCCGAGGCCACACCATCTCCTCTGAV
37649 P	DEL	A	CGCGCCGAGGCACACCATCTCCTCTGATCCV
37649 T	INS	A	AGGATCAGAGGAGATGGTGTGGCAGAGCTGGCATGGGTGCTGGTTATATAGCATTTACTTTTGCT
37649 T	DEL	A	GTGAGGATCAGAGGAGATGGTGTGCAGAGCTGGCATGGGTGCTGGTTATATAGCATTTACTTTTGCT
37649 IS	[-C]		aacaacagcaaaagtaaatgctatataaccagcacccatgccagctctgc[-C]acaccatctcctctgatcctcacagtagaaatacaatacgggtcccattt
37912 I		A	CTGCTAGTAGGTCCAAAGGCCCCACCTACCT
37912 P	G	A	CGCGCCGAGGGCCCGCCAGAGCV
37912 P	A	A	CGCGCCGAGGACCCGCCAGAGCCV
37912 T	G	A	CCTGGGCTCTGGCGGGCGGTAGGTGGGGCCTTTGGACCTACTAGCAGTG
37912 T	A	A	CCTGGGCTCTGGCGGGTGGTAGGTGGGGCCTTTGGACCTACTAGCAGTG
37912 IS	[GA]		ctgctgtgttaactcccacctgctagtaggtccaaaggcccccacctacc[GA]cccgccagagcccagggtcacactgtcgcaatgtgcaggagaacttggtg
38027 I		A	CTGTGGGGCTGGAAACGTGATAGGTTAGGATGGT
38027 P	A	A	CGCGCCGAGGAAACAGAATTGGGATCACTCAA
38027 P	G	A	CGCGCCGAGGGAACAGAATTGGGATCACTCAA
38027 T	A	A	AAATTTGAGTGATCCCAATTCTGTTTCCATCCTAACCTATCACGTTTCCAGCCCCACAGTT
38027 T	G	A	AAATTTGAGTGATCCCAATTCTGTTCCCATCCTAACCTATCACGTTTCCAGCCCCACAGTT
38027 IS	[AG]		acgtcagcctgatgaaactgtggggctggaaacgtgataggttaggatgg[AG]aacagaattgggatcactcaaatttaatagtggaaactgtgagattagat
45360 I		A	GTAGCAATCTGAAATTTATTAAAAACATTTTTTCTGTTAAACTAATATTAC
45360 P	T	A	CGCGCCGAGGTTATATTCTATCTTCTGCAGACATAACTT
45360 P	G	A	CGCGCCGAGGGTATATTCTATCTTCTGCAGACATAACT
45360 T	T	A	TAAAAAGTTATGTCTGCAGAAGATAGAATATAATAATATTAGTTTAACAGAAAAAATGTTTTTAATAAATTTCAGATTGCT AC
45360 T	G	A	TAAAAAGTTATGTCTGCAGAAGATAGAATATACTAATATTAGTTTAACAGAAAAAATGTTTTTAATAAATTTCAGATTGCT AC
45360 IS	[TG]		GTAGCAATCTGAAATTTATTAAAAACATTTTTTCTGTTAAACTAATATTA[TG]TATATTCTATCTTCTGCAGACATAACTTT TTAAATTAAAAATCGTTAAAA
45407 I		A	CAAAGAGAACTGTGCCGTGTTCTACTCTTTACCAAGT
45407 P	A	A	CGCGCCGAGGACACTTTCCAACTTTCAGGCY
45407 P	C	A	CGCGCCGAGGCCACTTTCCAACTTTCAGGCY
45407 T	A	A	AACAGCCTGAAAGTTGGAAAGTGTCTTGGTAAAGAGTAGAACACGGCACAGTTCTCTTTGAT
45407 T	C	A	AACAGCCTGAAAGTTGGAAAGTGGCTTGGTAAAGAGTAGAACACGGCACAGTTCTCTTTGAT
45407 IS	[AC]		CATAAAAACAGTATCAAAGAGAACTGTGCCGTGTTCTACTCTTTACCAAG[AC]CACTTTCCAACTTTCAGGCTGTTTTTT ATCAAGGTTCCAACAGTGACCAC
45410 I		A	CTCACAGACATGAAGATACAAGACAGGCTGGAAGGTTGTTCC
45410 P	T	A	CGCGCCGAGGATTAGGAAGGGAAAACATCCC
45410 P	A	A	CGCGCCGAGGATTAGGAAGGGAAAACATCCC
45410 T	T	A	TAAAGGGATGTTTTCCCTTCCTAAAGAACAACCTTCCAGCCTGTCTTGTATCTTCATGTCTGTGAGTT
45410 T	A	A	TAAAGGGATGTTTTCCCTTCCTAATGAACAACCTTCCAGCCTGTCTTGTATCTTCATGTCTGTGAGTT
45410 IS	[TA]		TCACTGCAACTCACAGACATGAAGATACAAGACAGGCTGGAAGGTTGTTC[TA]TTAGGAAGGGAAAACATCCCTTTACT TAAACTTGATAATGACTGGTTTTG
45513 I		A	AAGGAGGCCAAACTGAGAATGAGTGAAATTAGTGAAAAATGAAAAGGATGT
45513 P	A	A	CGCGCCGAGGAAAAACTCAGATTCCCTTTTATTTTTTTC
45513 P	G	A	CGCGCCGAGGGAAAACTCAGATTCCCTTTTATTTTTTTC
45513 T	A	A	AAAAGAAAAAAATAAAAGGGAATCTGAGTTTTTCATCCTTTTCATTTTTCACTAATTTCACTCATTCTCAGTTTGGCCTC CTT
45513 T	G	A	AAAAGAAAAAAATAAAAGGGAATCTGAGTTTTCCATCCTTTTCATTTTTCACTAATTTCACTCATTCTCAGTTTGGCCTC CTT
45513 IS	[AG]		AAGGAGGCCAAACTGAGAATGAGTGAAATTAGTGAAAAATGAAAAGGATG[AG]AAAACTCAGATTCCCTTTTATTTTTT TCTTTTTAAAAAAGAGATATTTGG
45526 I		A	CCCTCATCTCCTTGTGACTCCCTCCTTGCTATCAC
45526 P	T	A	CGCGCCGAGGTCCAACCTCAGCCTACTG
45526 P	A	A	CGCGCCGAGGACCAACCTCAGCCTACTG
45526 T	T	A	TCATCAGTAGGCTGAGGTTGGATGATAGCAAGGAGGGAGTCACAAGGAGATGAGGGTG
45526 T	A	A	TCATCAGTAGGCTGAGGTTGGTTGATAGCAAGGAGGGAGTCACAAGGAGATGAGGGTG
45526 IS	[TA]		CTCAGGTTCCCAGTCACCCTCATCTCCTTGTGACTCCCTCCTTGCTATCA[TA]CCAACCTCAGCCTACTGATGACACAT TGGGTAAGGGGGCTGATTCCATCA
45561 I		A	GGCTTGCTTTAGGAAGAAACTCTCACGGACAGCACT
45561 P	A	A	CGCGCCGAGGACAGGGTGATTTTGAAAGTGTA
45561 P	G	A	CGCGCCGAGGGCAGGGTGATTTTGAAAGTG
45561 T	A	A	TGCCTACACTTTCAAAATCACCCTGTGTGCTGTCCGTGAGAGTTTCTTCCTAAAGCAAGCCTT
45561 T	G	A	TGCCTACACTTTCAAAATCACCCTGCGTGCTGTCCGTGAGAGTTTCTTCCTAAAGCAAGCCTT
45561 IS	[AG]		GTTGCAATGAACAAAGGCTTGCTTTAGGAAGAAACTCTCACGGACAGCAC[AG]CAGGGTGATTTTGAAAGTGTAGGCA AGATCCTTTTAGGAAGCAAGGAAAG
47970 I		A	CTGGACCACTGCTGGYTGTCCACCCTCATGT
47970 P	C	A	CGCGCCGAGGCAGGGACCGGTAGGTGY
47970 P	A	A	CGCGCCGAGGAAGGGACCGGTAGGTGY
47970 T	C	A	GGGTCACCTACCGGTCCCTGCATGAGGGTGGACARCCAGCAGTGGTCCAGGC
47970 T	A	A	GGGTCACCTACCGGTCCCTTCATGAGGGTGGACARCCAGCAGTGGTCCAGGC
47970 IS	[CA]		TCCGCTTCCTTGCTGCGATGGCTGCAGTGGGAGCCCTGGAGCCCCTGCTGCCTGGACCACTGCTGGYTGTCCACCC TCATG[CA]AGGGACCGGTAGGTGACCCCTTGCCACTTTCTCTGACCTCTGTTCCCAGGCCAGCTCTCATGCTAGCAAC AGGCAATGGAGGCTGAATCAAACAGGACAGCTGAGACTGAAAATGTTCTTT
48181 I		A	GGGACTGTATACAGTCCCATACAATAGTTCTATACAGTCATTATGTTATAC
48181 P	T	A	CGCGCCGAGGTTATCATGTTTTCATTGGAAAATATTTTCAG
48181 P	A	A	CGCGCCGAGGATATCATGTTTTCATTGGAAAATATTTTCAG

FIGURE 129D

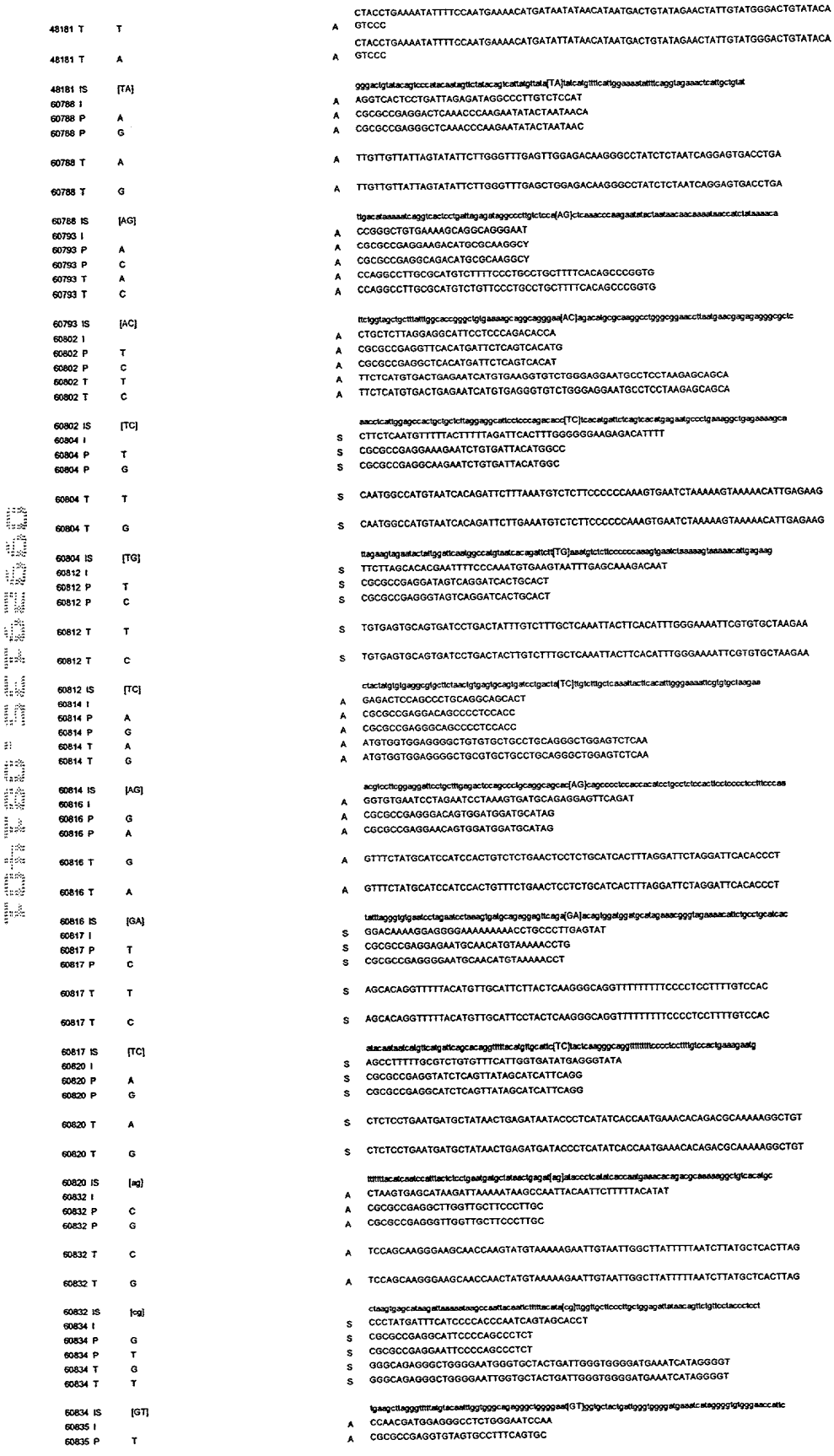

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48181 T T A GTCCC
CTACCTGAAAATATTTTCCAATGAAAACATGATATTATAACATAATGACTGTATAGAACTATTGTATGGGACTGTATACA
48181 T A A GTCCC
48181 IS [TA]
60788 I A AGGTCACTCCTGATTAGAGATAGGCCCTTGTCTCCAT
60788 P A A CGCGCCGAGGACTCAAACCCAAGAATATACTAATAACA
60788 P G A CGCGCCGAGGGCTCAAACCCAAGAATATACTAATAAC
60788 T A A TTGTTGTTATTAGTATATTCTTGGGTTTGAGTTGGAGACAAGGGCCTATCTCTAATCAGGAGTGACCTGA
60788 T G A TTGTTGTTATTAGTATATTCTTGGGTTTGAGCTGGAGACAAGGGCCTATCTCTAATCAGGAGTGACCTGA
60788 IS [AG]
60793 I A CCGGGCTGTGAAAAGCAGGCAGGGAAT
60793 P A A CGCGCCGAGGAAGACATGCGCAAGGCY
60793 P C A CGCGCCGAGGCAGACATGCGCAAGGCY
60793 T A A CCAGGCCTTGCGCATGTCTTTTCCCTGCCTGCTTTTCACAGCCCGGTG
60793 T C A CCAGGCCTTGCGCATGTCTGTTCCCTGCCTGCTTTTCACAGCCCGGTG
60793 IS [AC]
60802 I A CTGCTCTTAGGAGGCATTCCTCCCAGACACCA
60802 P T A CGCGCCGAGGTTCACATGATTCTCAGTCACATG
60802 P C A CGCGCCGAGGCTCACATGATTCTCAGTCACAT
60802 T T A TTCTCATGTGACTGAGAATCATGTGAAGGTGTCTGGGAGGAATGCCTCCTAAGAGCAGCA
60802 T C A TTCTCATGTGACTGAGAATCATGTGAGGGTGTCTGGGAGGAATGCCTCCTAAGAGCAGCA
60802 IS [TC]
60804 I S CTTCTCAATGTTTTTACTTTTTAGATTCACTTTGGGGGGAAGAGACATTTT
60804 P T S CGCGCCGAGGAAAGAATCTGTGATTACATGGCC
60804 P G S CGCGCCGAGGCAAGAATCTGTGATTACATGGC
60804 T T S CAATGGCCATGTAATCACAGATTCTTTAAATGTCTCTTCCCCCCAAAGTGAATCTAAAAAGTAAAAACATTGAGAAG
60804 T G S CAATGGCCATGTAATCACAGATTCTTGAAATGTCTCTTCCCCCCAAAGTGAATCTAAAAAGTAAAAACATTGAGAAG
60804 IS [TG]
60812 I S TTCTTAGCACACGAATTTTCCCAAATGTGAAGTAATTTGAGCAAAGACAAT
60812 P T S CGCGCCGAGGATAGTCAGGATCACTGCACT
60812 P C S CGCGCCGAGGGTAGTCAGGATCACTGCACT
60812 T T S TGTGAGTGCAGTGATCCTGACTATTTGTCTTTGCTCAAATTACTTCACATTTGGGAAAATTCGTGTGCTAAGAA
60812 T C S TGTGAGTGCAGTGATCCTGACTACTTGTCTTTGCTCAAATTACTTCACATTTGGGAAAATTCGTGTGCTAAGAA
60812 IS [TC]
60814 I A GAGACTCCAGCCCTGCAGGCAGCACT
60814 P A A CGCGCCGAGGACAGCCCCTCCACC
60814 P G A CGCGCCGAGGGCAGCCCCTCCACC
60814 T A A ATGTGGTGGAGGGGCTGTGTGCTGCCTGCAGGGCTGGAGTCTCAA
60814 T G A ATGTGGTGGAGGGGCTGCGTGCTGCCTGCAGGGCTGGAGTCTCAA
60814 IS [AG]
60816 I A GGTGTGAATCCTAGAATCCTAAAGTGATGCAGAGGAGTTCAGAT
60816 P G A CGCGCCGAGGGACAGTGGATGGATGCATAG
60816 P A A CGCGCCGAGGAACAGTGGATGGATGCATAG
60816 T G A GTTTCTATGCATCCATCCACTGTCTCTGAACTCCTCTGCATCACTTTAGGATTCTAGGATTCACACCCT
60816 T A A GTTTCTATGCATCCATCCACTGTTTCTGAACTCCTCTGCATCACTTTAGGATTCTAGGATTCACACCCT
60816 IS [GA]
60817 I S GGACAAAAGGAGGGGAAAAAAAAAACCTGCCCTTGAGTAT
60817 P T S CGCGCCGAGGAGAATGCAACATGTAAAAACCTG
60817 P C S CGCGCCGAGGGGAATGCAACATGTAAAAACCT
60817 T T S AGCACAGGTTTTTACATGTTGCATTCTTACTCAAGGGCAGGTTTTTTTTTCCCCTCCTTTTGTCCAC
60817 T C S AGCACAGGTTTTTACATGTTGCATTCCTACTCAAGGGCAGGTTTTTTTTTCCCCTCCTTTTGTCCAC
60817 IS [TC]
60820 I S AGCCTTTTTGCGTCTGTGTTTCATTGGTGATATGAGGGTATA
60820 P A S CGCGCCGAGGTATCTCAGTTATAGCATCATTCAGG
60820 P G S CGCGCCGAGGCATCTCAGTTATAGCATCATTCAGG
60820 T A S CTCTCCTGAATGATGCTATAACTGAGATAATACCCTCATATCACCAATGAAACACAGACGCAAAAAGGCTGT
60820 T G S CTCTCCTGAATGATGCTATAACTGAGATGATACCCTCATATCACCAATGAAACACAGACGCAAAAAGGCTGT
60820 IS [ag]
60832 I A CTAAGTGAGCATAAGATTAAAAATAAGCCAATTACAATTCTTTTTACATAT
60832 P C A CGCGCCGAGGCTTGGTTGCTTCCCTTGC
60832 P G A CGCGCCGAGGGTTGGTTGCTTCCCTTGC
60832 T C A TCCAGCAAGGGAAGCAACCAAGTATGTAAAAAGAATTGTAATTGGCTTATTTTTAATCTTATGCTCACTTAG
60832 T G A TCCAGCAAGGGAAGCAACCAACTATGTAAAAAGAATTGTAATTGGCTTATTTTTAATCTTATGCTCACTTAG
60832 IS [cg]
60834 I S CCCTATGATTTCATCCCCACCCAATCAGTAGCACCT
60834 P G S CGCGCCGAGGCATTCCCCAGCCCTCT
60834 P T S CGCGCCGAGGAATTCCCCAGCCCTCT
60834 T G S GGGCAGAGGGCTGGGGAATGGGTGCTACTGATTGGGTGGGGATGAAATCATAGGGGT
60834 T T S GGGCAGAGGGCTGGGGAATTGGTGCTACTGATTGGGTGGGGATGAAATCATAGGGGT
60834 IS [GT]
60835 I A CCAACGATGGAGGGCCTCTGGGAATCCAA
60835 P T A CGCGCCGAGGTGTAGTGCCTTTCAGTGC

FIGURE 129D

```
60835 P   C    A  CGCGCCGAGGCGTAGTGCCTTTCAGTGC
60835 T   T    A  TCGAGCACTGAAAGGCACTACATGGATTCCCAGAGGCCCTCCATCGTTGGGG
60835 T   C    A  TCGAGCACTGAAAGGCACTACGTGGATTCCCAGAGGCCCTCCATCGTTGGGG

60835 IS  [TC]      atggtaaagcicgtagaagtccccaacgatggagggcctctgggaatcca[TC]gtagtgccttcagtgctcgaggcggcaggtaacgtatcttggaggttti
60837 I           S  GTGCAGGTAATGAAGCCAGTGAAGCCACAATTTAAGAAATAGTGAT
60837 P   G       S  CGCGCCGAGGCAACTCCTTTCCACATGCA
60837 P   C       S  CGCGCCGAGGGAACTCCTTTCCACATGCA

60837 T   G       S  GACTTGCATGTGGAAAGGAGTTGTCACTATTTCTTAAATTGTGGCTTCACTGGCTTCATTACCTGCACCT

60837 T   C       S  GACTTGCATGTGGAAAGGAGTTCTCACTATTTCTTAAATTGTGGCTTCACTGGCTTCATTACCTGCACCT

60837 IS  [GC]      atgaagaagtcccatctgatgcagaggagacttgcatgtggaaaggagt[GC]tcactatttcttaaattgtggcttcactggcttcatiacctgcacctct
60838 I           S  CCCTGAATGCTGTCAGTGCTGCTCGGAT
60838 P   T       S  CGCGCCGAGGATAACACCTGGGTCAGAATGA
60838 P   C       S  CGCGCCGAGGGTAACACCTGGGTCAGAATG
60838 T   T       S  CCTGTCATTCTGACCCAGGTGTTATTCCGAGCAGCACTGACAGCATTCAGGGCT
60838 T   C       S  CCTGTCATTCTGACCCAGGTGTTACTCCGAGCAGCACTGACAGCATTCAGGGCT

60838 IS  [TC]      cactccagcctgggcaagagtgagacccigtcatictgacccaggtgtta[TC]tccgagcagcactgacagcatcagggctaggtcatgcttggttctcttg
60839 I           A  GCCATGCAAGGGTGGGGGTGGTGA
60839 P   T       A  CGCGCCGAGGTGGTTGACTGCCTCAGG
60839 P   C       A  CGCGCCGAGGCGGTTGACTGCCTCAG
60839 T   T       A  AGTCCCTGAGGCAGTCAACCACACCACCCCCACCCTTGCATGGCCA
60839 T   C       A  AGTCCCTGAGGCAGTCAACCGCACCACCCCCACCCTTGCATGGCCA

60839 IS  [TC]      tctgggcctgggaacaggttctgcctggccatgcaagggtgggggtggtg[TC]ggttgactgcctcagggactcaggccacagaggacccactgccgccactg
60841 I           S  AAGTTTAGCCTCTGAATCTGAACAATTTATTCTCCATCATCTGAGTGAAAT
60841 P   G       S  CGCGCCGAGGCTGAAAGCTAGCATGACCAC
60841 P   T       S  CGCGCCGAGGATGAAAGCTAGCATGACCAC

60841 T   G       S  TTCTGTGGTCATGCTAGCTTTCAGTTTCACTCAGATGATGGAGAATAAATTGTTCAGATTCAGAGGCTAAACTT

60841 T   T       S  TTCTGTGGTCATGCTAGCTTTCATTTTCACTCAGATGATGGAGAATAAATTGTTCAGATTCAGAGGCTAAACTT

60841 IS  [gt]      aaaatcaaatacatttlcaataagaggttctgtggtcatgctagcttica[gt]tttcactcagatgatggagaaiaaattgttcagattcagaggctaaactt
60844 I           A  TCCTTCCTGGATTCAGGACTCCCTCAGCGTT
60844 P   A       A  CGCGCCGAGGAAATCTGGGAAAGCTGTTCC
60844 P   G       A  CGCGCCGAGGGAATCTGGGAAAGCTGTTCC
60844 T   A       A  TCCAGGAACAGCTTTCCCAGATTTACGCTGAGGGAGTCCTGAATCCAGGAAGGAGG
60844 T   G       A  TCCAGGAACAGCTTTCCCAGATTCACGCTGAGGGAGTCCTGAATCCAGGAAGGAGG

60844 IS  [ag]      tgccaggtggccatggaacctcctcctggattcaggactcccicagcgt[ag]aatcigggaaagctgttcctggagctcccggcccatgagggtgatgcaca
60845 I           S  AGGAGCAAGCTCAACAGATCAGCCATTTGGGTT
60845 P   C       S  CGCGCCGAGGGTTGGTGTGCACTCTCAAA
60845 P   T       S  CGCGCCGAGGATTGGTGTGCACTCTCAAATAA
60845 T   C       S  AGAGTTATTTGAGAGTGCACACCAACACCCAAATGGCTGATCTGTTGAGCTTGCTCCTGT
60845 T   T       S  AGAGTTATTTGAGAGTGCACACCAATACCCAAATGGCTGATCTGTTGAGCTTGCTCCTGT

60845 IS  [ct]      cacctggtaaaacccaagacatiggagagttattgagagigcacaccaa[ct]acccaaatggctgatctgttgagcttgctcctgtgttcaagtacagaaat
60846 I           S  CTGTTGACCTATTTATCCACATCGCGTCAAGCATATAGAAGATTTGCTTT
60846 P   C       S  CGCGCCGAGGGCCTGACAACCAAACCTT
60846 P   G       S  CGCGCCGAGGCCCTGACAACCAAACCTTT

60846 T   C       S  CGGGAAAGGTTTGGTTGTCAGGCAAGCAAATCTTCTATATGCTTGACGCGATGTGGATAAATAGGTCAACAGA

60846 T   G       S  CGGGAAAGGTTTGGTTGTCAGGGAAGCAAATCTTCTATATGCTTGACGCGATGTGGATAAATAGGTCAACAGA

60846 IS  [cg]      aatctctcaaacatticaaagaacagaggcgggaaaggtttggttgtcagg[cg]aagcaaatcttctatatgcttgacgcgatgtggataaataggtcaacaga
60892 I           S  TCTGGCCAGGGAAGGTTGCCATGAGACAAAAT
60892 P   T       S  CGCGCCGAGGATTGGGCCTGGAAAGAC
60892 P   C       S  CGCGCCGAGGGTTGGGCCTGGAAAGAC
60892 T   T       S  AAGGGTCTTTCCAGGCCCAATTTTTGTCTCATGGCAACCTTCCCTGGCCAGATT
60892 T   C       S  AAGGGTCTTTCCAGGCCCAACTTTTGTCTCATGGCAACCTTCCCTGGCCAGATT

60892 IS  [TC]      tggcctctttaggccaagctcatgcttcacaagggtctttccaggcccaa[TC]tttgtctcatggcaacctlcccigccagattcctgcctgtctcccagc
60893 I           S  TCGCCCCAGTTCCAACAAAAACCATGTCAAATGCTACA
60893 P   A       S  CGCGCCGAGGTCACTAGGATATGCACTGCA
60893 P   G       S  CGCGCCGAGGCCACTAGGATATGCACTGC
60893 T   A       S  AAAGTGCAGTGCATATCCTAGTGAGTAGCATTTGACATGGTTTTTGTTGGAACTGGGGCGAAT
60893 T   G       S  AAAGTGCAGTGCATATCCTAGTGGGTAGCATTTGACATGGTTTTTGTTGGAACTGGGGCGAAT

60893 IS  [AG]      tggtggcattacctaaatagtgtctccaaagtgcagtgcatatcctagtg[AG]gtagcatttgacatggttttgtggaactggggcgaaiatttaaattg
60897 I           S  TGCCAAGATTTTCTAAAGCATTCTGTGGACCATTCTGTGAGCA
60897 P   A       S  CGCGCCGAGGTCCTACAAGGGGTTCTGAG
60897 P   G       S  CGCGCCGAGGCCCTACAAGGGGTTCTGA

60897 T   A       S  GGAGCTCAGAACCCCTTGTAGGAGCTCACAGAATGGTCCACAGAATGCTTTAGAAAATCTTGGCAGC

60897 T   G       S  GGAGCTCAGAACCCCTTGTAGGGGCTCACAGAATGGTCCACAGAATGCTTTAGAAAATCTTGGCAGC

60897 IS  [AG]      aggiccattggatcaaatcccagggcaaggagctcagaacccctigtagg[AG]gctcacagaatggtccacagaatgcttagaaaatcttggcagcccigct
60899 I           A  GAGGCAGCAGGCCAGGCCGGT
60899 P   A       A  CGCGCCGAGGAGTCTCCATGCTGCTCC
60899 P   G       A  CGCGCCGAGGGGTCTCCATGCTGCTC
60899 T   A       A  GCAGGGAGCAGCATGGAGACTCCGGCCTGGCCTGCTGCCTCTC
60899 T   G       A  GCAGGGAGCAGCATGGAGACCCCGGCCTGGCCTGCTGCCTCTC

60899 IS  [AG]      acccgggctccatgccagtgcccatgttgagaggcagcaggccaggccgg[AG]gtctccatgctgctcccigcagcccttgaggtttagctgcagttgtcac
60900 I           A  GATTAGGTTCCAGAAAGTCTGGAAAATACTCAGAAAGCCAAGAAGTAGAGT
60900 P   A       A  CGCGCCGAGGATGGAGATCTTTCTTGCTCC
60900 P   G       A  CGCGCCGAGGGTGGAGATCTTTCTTGCTCC

60900 T   A       A  CTTGGGAGCAAGAAAGATCTCCATCTCTACTTCTTGGCTTTCTGAGTATTTTCCAGACTTTCTGGAACCTAATC

60900 T   G       A  CTTGGGAGCAAGAAAGATCTCCACCTCTACTTCTTGGCTTTCTGAGTATTTTCCAGACTTTCTGGAACCTAATC

60900 IS  [AG]      gattaggttccagaaagtctggaaaatactcagaaagccaagaagtagag[AG]tggagatcttcttgctcccaaggaatagtaaaaagagttgctattatta
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FIGURE 129D

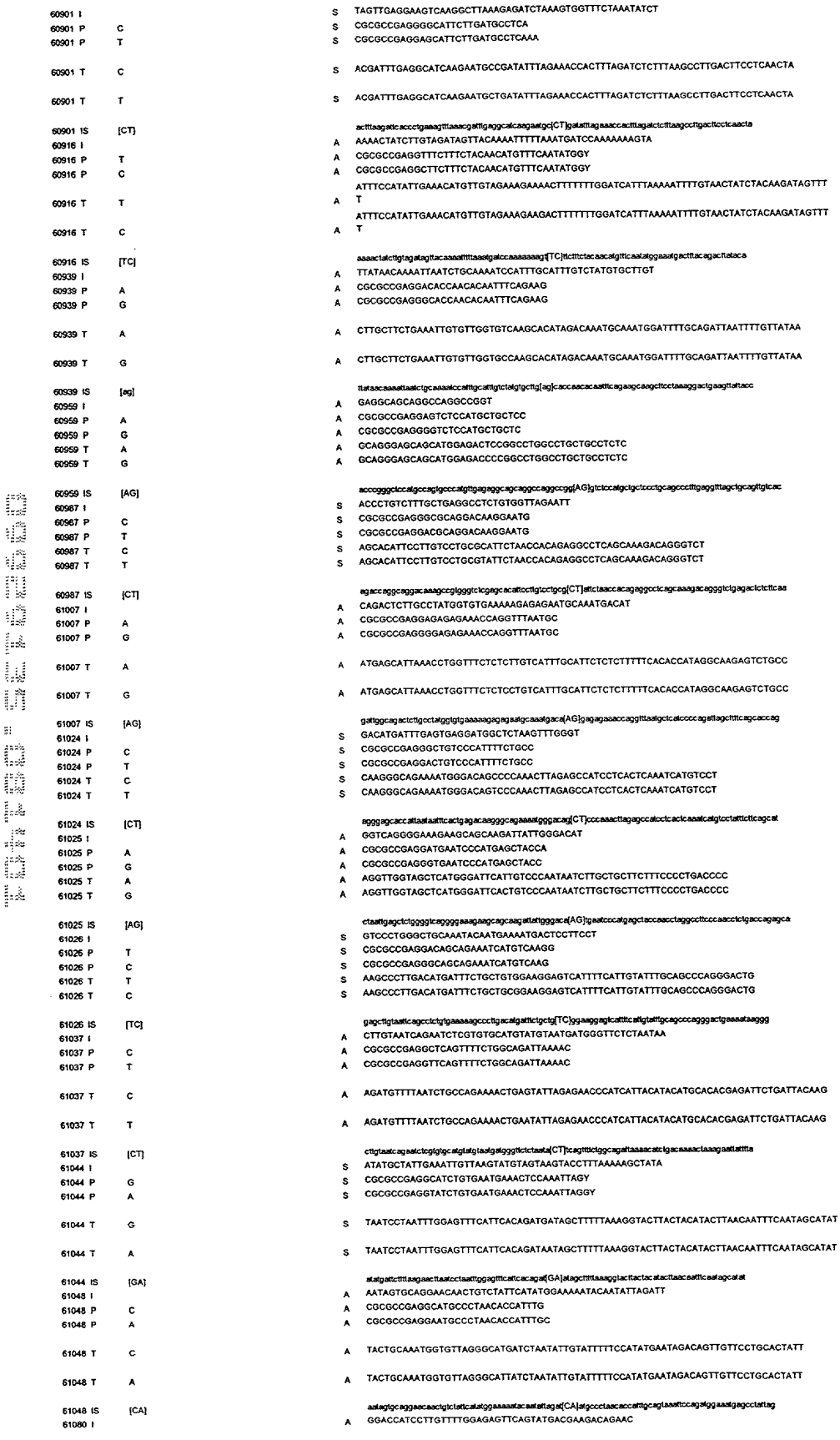

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60901 P C S CGCGCCGAGGGGCATTCTTGATGCCTCA
60901 P T S CGCGCCGAGGAGCATTCTTGATGCCTCAAA
60901 T C S ACGATTTGAGGCATCAAGAATGCCGATATTTAGAAACCACTTTAGATCTCTTTAAGCCTTGACTTCCTCAACTA
60901 T T S ACGATTTGAGGCATCAAGAATGCTGATATTTAGAAACCACTTTAGATCTCTTTAAGCCTTGACTTCCTCAACTA
60901 IS [CT]
60916 I A AAAACTATCTTGTAGATAGTTACAAAATTTTTAAATGATCCAAAAAAAGTA
60916 P T A CGCGCCGAGGTTTCTTTCTACAACATGTTTCAATATGGY
60916 P C A CGCGCCGAGGCTTCTTTCTACAACATGTTTCAATATGGY
60916 T T A T
60916 T C A T
60916 IS [TC]
60939 I A TTATAACAAAATTAATCTGCAAAATCCATTTGCATTGTCTATGTGCTTGT
60939 P A A CGCGCCGAGGACACCAACACAATTTCAGAAG
60939 P G A CGCGCCGAGGGCACCAACACAATTTCAGAAG
60939 T A A CTTGCTTCTGAAATTGTGTTGGTGTCAAGCACATAGACAAATGCAAATGGATTTTGCAGATTAATTTTGTTATAA
60939 T G A CTTGCTTCTGAAATTGTGTTGGTGCCAAGCACATAGACAAATGCAAATGGATTTTGCAGATTAATTTTGTTATAA
60939 IS [ag]
60959 I A GAGGCAGCAGGCCAGGCCGGT
60959 P A A CGCGCCGAGGAGTCTCCATGCTGCTCC
60959 P G A CGCGCCGAGGGGTCTCCATGCTGCTC
60959 T A A GCAGGGAGCAGCATGGAGACTCCGGCCTGGCCTGCTGCCTCTC
60959 T G A GCAGGGAGCAGCATGGAGACCCCGGCCTGGCCTGCTGCCTCTC
60959 IS [AG]
60987 I S ACCCTGTCTTTGCTGAGGCCTCTGTGGTTAGAATT
60987 P C S CGCGCCGAGGGCGCAGGACAAGGAATG
60987 P T S CGCGCCGAGGACGCAGGACAAGGAATG
60987 T C S AGCACATTCCTTGTCCTGCGCATTCTAACCACAGAGGCCTCAGCAAAGACAGGGTCT
60987 T T S AGCACATTCCTTGTCCTGCGTATTCTAACCACAGAGGCCTCAGCAAAGACAGGGTCT
60987 IS [CT]
61007 I A CAGACTCTTGCCTATGGTGTGAAAAAGAGAGAATGCAAATGACAT
61007 P A A CGCGCCGAGGAGAGAGAAACCAGGTTTAATGC
61007 P G A CGCGCCGAGGGGAGAGAAACCAGGTTTAATGC
61007 T A A ATGAGCATTAAACCTGGTTTCTCTCTTGTCATTTGCATTCTCTCTTTTTCACACCATAGGCAAGAGTCTGCC
61007 T G A ATGAGCATTAAACCTGGTTTCTCTCCTGTCATTTGCATTCTCTCTTTTTCACACCATAGGCAAGAGTCTGCC
61007 IS [AG]
61024 I S GACATGATTTGAGTGAGGATGGCTCTAAGTTTGGGT
61024 P C S CGCGCCGAGGGCTGTCCCATTTTCTGCC
61024 P T S CGCGCCGAGGACTGTCCCATTTTCTGCC
61024 T C S CAAGGGCAGAAAATGGGACAGCCCCAAACTTAGAGCCATCCTCACTCAAATCATGTCCT
61024 T T S CAAGGGCAGAAAATGGGACAGTCCCAAACTTAGAGCCATCCTCACTCAAATCATGTCCT
61024 IS [CT]
61025 I A GGTCAGGGGAAAGAAGCAGCAAGATTATTGGGACAT
61025 P A A CGCGCCGAGGATGAATCCCATGAGCTACCA
61025 P G A CGCGCCGAGGGTGAATCCCATGAGCTACC
61025 T A A AGGTTGGTAGCTCATGGGATTCATTGTCCCAATAATCTTGCTGCTTCTTTCCCCTGACCCC
61025 T G A AGGTTGGTAGCTCATGGGATTCACTGTCCCAATAATCTTGCTGCTTCTTTCCCCTGACCCC
61025 IS [AG]
61026 I S GTCCCTGGGCTGCAAATACAATGAAAATGACTCCTTCCT
61026 P T S CGCGCCGAGGACAGCAGAAATCATGTCAAGG
61026 P C S CGCGCCGAGGGCAGCAGAAATCATGTCAAG
61026 T T S AAGCCCTTGACATGATTTCTGCTGTGGAAGGAGTCATTTTCATTGTATTTGCAGCCCAGGGACTG
61026 T C S AAGCCCTTGACATGATTTCTGCTGCGGAAGGAGTCATTTTCATTGTATTTGCAGCCCAGGGACTG
61026 IS [TC]
61037 I A CTTGTAATCAGAATCTCGTGTGCATGTATGTAATGATGGGTTCTCTAATAA
61037 P C A CGCGCCGAGGCTCAGTTTTCTGGCAGATTAAAAC
61037 P T A CGCGCCGAGGTTCAGTTTTCTGGCAGATTAAAAC
61037 T C A AGATGTTTTAATCTGCCAGAAAACTGAGTATTAGAGAACCCATCATTACATACATGCACACGAGATTCTGATTACAAG
61037 T T A AGATGTTTTAATCTGCCAGAAAACTGAATATTAGAGAACCCATCATTACATACATGCACACGAGATTCTGATTACAAG
61037 IS [CT]
61044 I S ATATGCTATTGAAATTGTTAAGTATGTAGTAAGTACCTTTAAAAAGCTATA
61044 P G S CGCGCCGAGGCATCTGTGAATGAAACTCCAAATTAGY
61044 P A S CGCGCCGAGGTATCTGTGAATGAAACTCCAAATTAGGY
61044 T G S TAATCCTAATTTGGAGTTTCATTCACAGATGATAGCTTTTTAAAGGTACTTACTACATACTTAACAATTTCAATAGCATAT
61044 T A S TAATCCTAATTTGGAGTTTCATTCACAGATAATAGCTTTTTAAAGGTACTTACTACATACTTAACAATTTCAATAGCATAT
61044 IS [GA]
61048 I A AATAGTGCAGGAACAACTGTCTATTCATATGGAAAAATACAATATTAGATT
61048 P C A CGCGCCGAGGCATGCCCTAACACCATTTG
61048 P A A CGCGCCGAGGAATGCCCTAACACCATTTGC
61048 T C A TACTGCAAATGGTGTTAGGGCATGATCTAATATTGTATTTTTCCATATGAATAGACAGTTGTTCCTGCACTATT
61048 T A A TACTGCAAATGGTGTTAGGGCATTATCTAATATTGTATTTTTCCATATGAATAGACAGTTGTTCCTGCACTATT
61048 IS [CA]
61080 I A GGACCATCCTTGTTTTGGAGAGTTCAGTATGACGAAGACAGAAC

FIGURE 129D

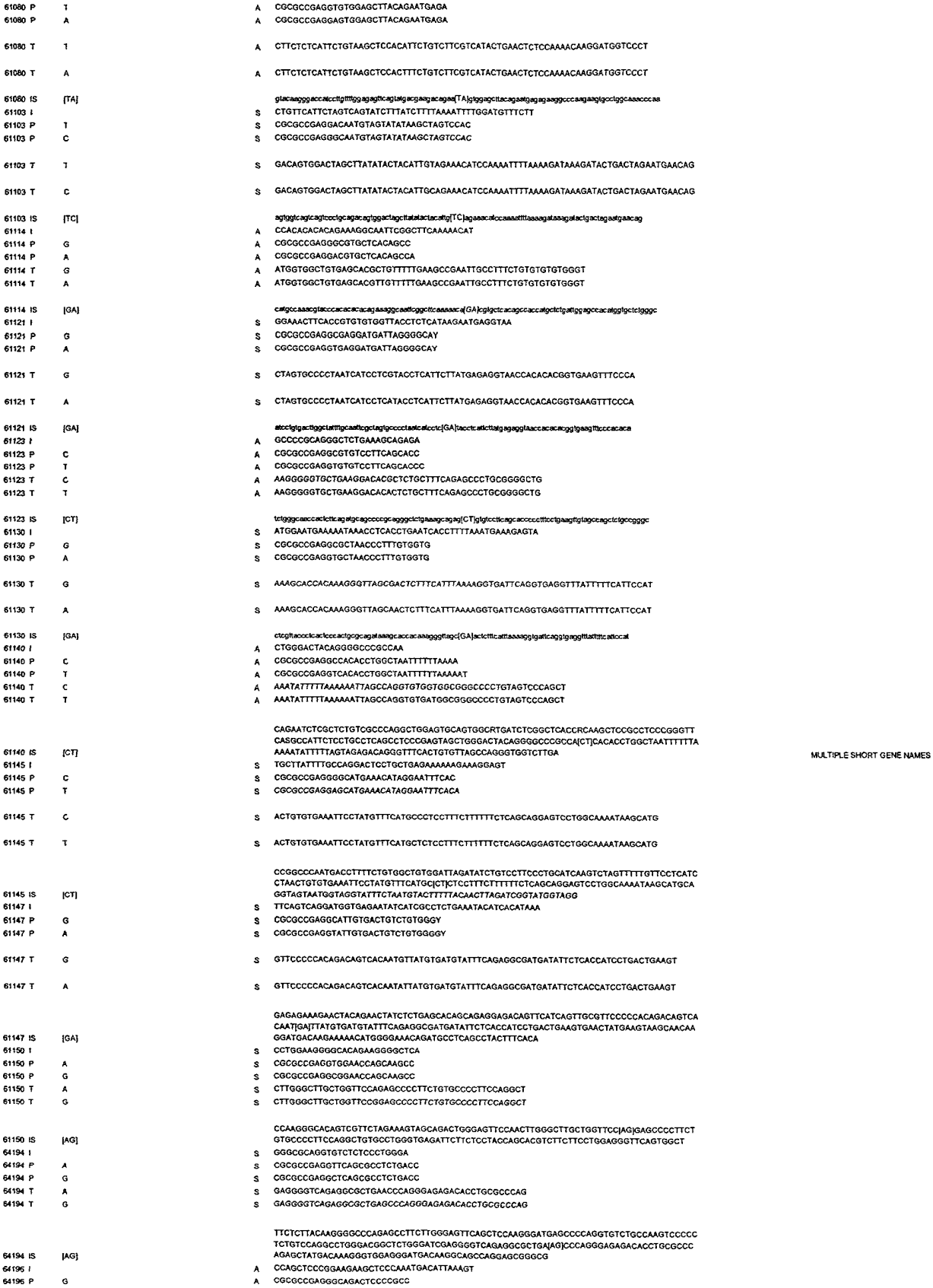
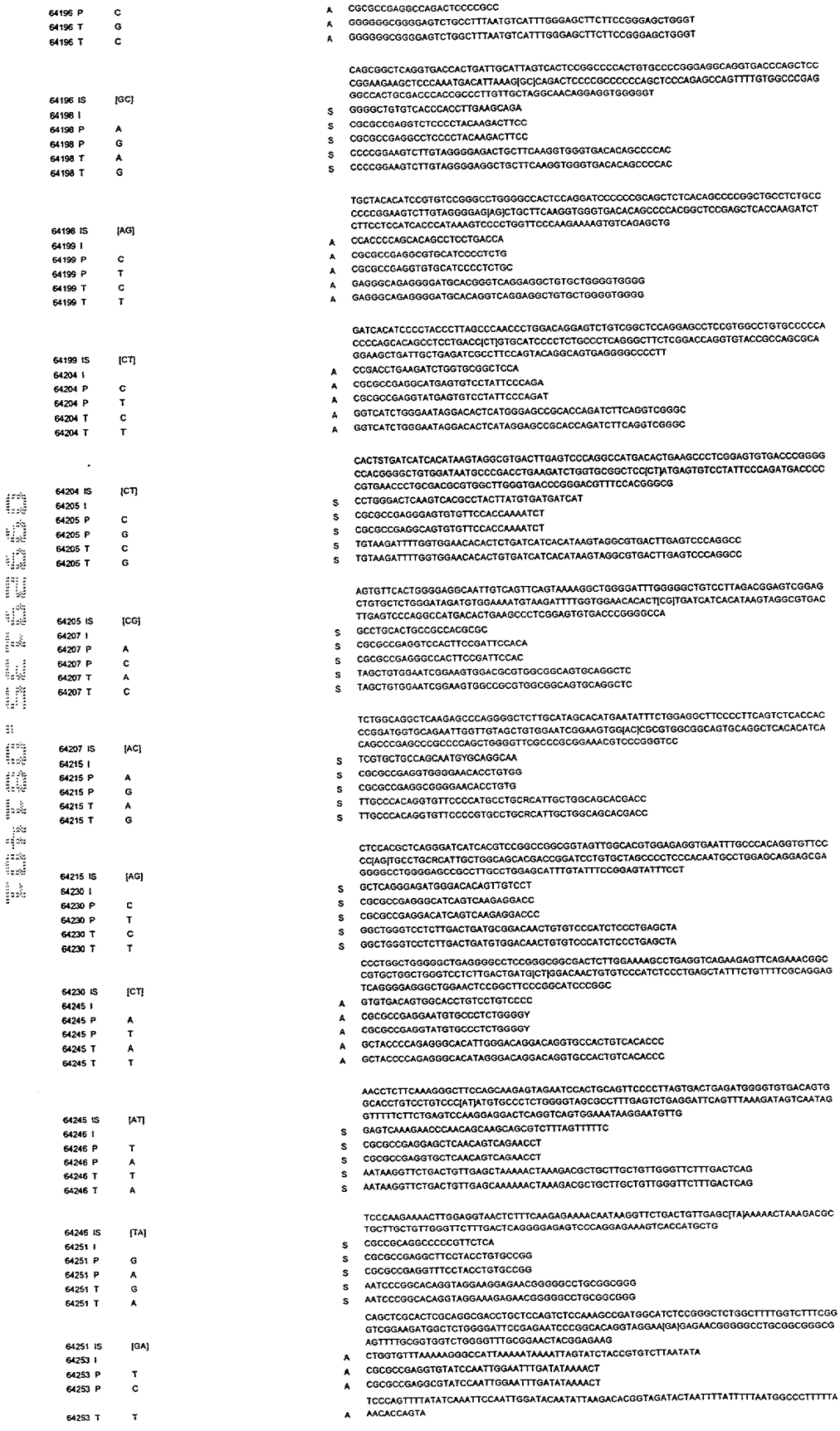

61080 P T A CGCGCCGAGGTGTGGAGCTTACAGAATGAGA
61080 P A A CGCGCCGAGGAGTGGAGCTTACAGAATGAGA
61080 T T A CTTCTCTCATTCTGTAAGCTCCACATTCTGTCTTCGTCATACTGAACTCTCCAAAACAAGGATGGTCCCT
61080 T A A CTTCTCTCATTCTGTAAGCTCCACTTTCTGTCTTCGTCATACTGAACTCTCCAAAACAAGGATGGTCCCT
61080 IS [TA]
61103 I S CTGTTCATTCTAGTCAGTATCTTTATCTTTTAAAATTTTGGATGTTTCTT
61103 P T S CGCGCCGAGGACAATGTAGTATATAAGCTAGTCCAC
61103 P C S CGCGCCGAGGGCAATGTAGTATATAAGCTAGTCCAC
61103 T T S GACAGTGGACTAGCTTATATACTACATTGTAGAAACATCCAAAATTTTAAAAGATAAAGATACTGACTAGAATGAACAG
61103 T C S GACAGTGGACTAGCTTATATACTACATTGCAGAAACATCCAAAATTTTAAAAGATAAAGATACTGACTAGAATGAACAG
61103 IS [TC]
61114 I A CCACACACACAGAAAGGCAATTCGGCTTCAAAAACAT
61114 P G A CGCGCCGAGGGCGTGCTCACAGCC
61114 P A A CGCGCCGAGGACGTGCTCACAGCCA
61114 T G A ATGGTGGCTGTGAGCACGCTGTTTTTGAAGCCGAATTGCCTTTCTGTGTGTGTGGGT
61114 T A A ATGGTGGCTGTGAGCACGTTGTTTTTGAAGCCGAATTGCCTTTCTGTGTGTGTGGGT
61114 IS [GA]
61121 I S GGAAACTTCACCGTGTGTGGTTACCTCTCATAAGAATGAGGTAA
61121 P G S CGCGCCGAGGCGAGGATGATTAGGGGCAY
61121 P A S CGCGCCGAGGTGAGGATGATTAGGGGCAY
61121 T G S CTAGTGCCCCTAATCATCCTCGTACCTCATTCTTATGAGAGGTAACCACACACGGTGAAGTTTCCCA
61121 T A S CTAGTGCCCCTAATCATCCTCATACCTCATTCTTATGAGAGGTAACCACACACGGTGAAGTTTCCCA
61121 IS [GA]
61123 I A GCCCCGCAGGGCTCTGAAAGCAGAGA
61123 P C A CGCGCCGAGGCGTGTCCTTCAGCACC
61123 P T A CGCGCCGAGGTGTGTCCTTCAGCACCC
61123 T C A AAGGGGGTGCTGAAGGACACGCTCTGCTTTCAGAGCCCTGCGGGGCTG
61123 T T A AAGGGGGTGCTGAAGGACACACTCTGCTTTCAGAGCCCTGCGGGGCTG
61123 IS [CT]
61130 I S ATGGAATGAAAAATAAACCTCACCTGAATCACCTTTTAAATGAAAGAGTA
61130 P G S CGCGCCGAGGCGCTAACCCTTTGTGGTG
61130 P A S CGCGCCGAGGTGCTAACCCTTTGTGGTG
61130 T G S AAAGCACCACAAAGGGTTAGCGACTCTTTCATTTAAAAGGTGATTCAGGTGAGGTTTATTTTTCATTCCAT
61130 T A S AAAGCACCACAAAGGGTTAGCAACTCTTTCATTTAAAAGGTGATTCAGGTGAGGTTTATTTTTCATTCCAT
61130 IS [GA]
61140 I A CTGGGACTACAGGGGCCCGCCAA
61140 P C A CGCGCCGAGGCCACACCTGGCTAATTTTTTAAAA
61140 P T A CGCGCCGAGGTCACACCTGGCTAATTTTTTAAAAAT
61140 T C A AAATATTTTTAAAAAATTAGCCAGGTGTGGTGGCGGGCCCCTGTAGTCCCAGCT
61140 T T A AAATATTTTTAAAAAATTAGCCAGGTGTGATGGCGGGCCCCTGTAGTCCCAGCT
61140 IS [CT]
61145 I S TGCTTATTTTGCCAGGACTCCTGCTGAGAAAAAAGAAAGGAGT
61145 P C S CGCGCCGAGGGGCATGAAACATAGGAATTTCAC
61145 P T S CGCGCCGAGGAGCATGAAACATAGGAATTTCACA
61145 T C S ACTGTGTGAAATTCCTATGTTTCATGCCCTCCTTTCTTTTTTCTCAGCAGGAGTCCTGGCAAAATAAGCATG
61145 T T S ACTGTGTGAAATTCCTATGTTTCATGCTCTCCTTTCTTTTTTCTCAGCAGGAGTCCTGGCAAAATAAGCATG
61145 IS [CT]
61147 I S TTCAGTCAGGATGGTGAGAATATCATCGCCTCTGAAATACATCACATAAA
61147 P G S CGCGCCGAGGCATTGTGACTGTCTGTGGGGY
61147 P A S CGCGCCGAGGTATTGTGACTGTCTGTGGGGY
61147 T G S GTTCCCCCACAGACAGTCACAATGTTATGTGATGTATTTCAGAGGCGATGATATTCTCACCATCCTGACTGAAGT
61147 T A S GTTCCCCCACAGACAGTCACAATATTATGTGATGTATTTCAGAGGCGATGATATTCTCACCATCCTGACTGAAGT
61147 IS [GA]
61150 I S CCTGGGAAGGGGCACAGAAGGGGCTCA
61150 P A S CGCGCCGAGGTGGAACCAGCAAGCC
61150 P G S CGCGCCGAGGCGGAACCAGCAAGCC
61150 T A S CTTGGGCTTGCTGGTTCCAGAGCCCCTTCTGTGCCCCTTCCAGGCT
61150 T G S CTTGGGCTTGCTGGTTCCGGAGCCCCTTCTGTGCCCCTTCCAGGCT
61150 IS [AG]
64194 I S GGGCGCAGGTGTCTCTCCCTGGGA
64194 P A S CGCGCCGAGGTTCAGCGCCTCTGACC
64194 P G S CGCGCCGAGGCTCAGCGCCTCTGACC
64194 T A S GAGGGGTCAGAGGCGCTGAACCCAGGGAGAGACACCTGCGCCCAG
64194 T G S GAGGGGTCAGAGGCGCTGAGCCCAGGGAGAGACACCTGCGCCCAG
64194 IS [AG]
64195 I A CCAGCTCCCGGAAGAAGCTCCCAAATGACATTAAAGT
64196 P G A CGCGCCGAGGGCAGACTCCCCGCC
MULTIPLE SHORT GENE NAMES

FIGURE 129D


64196 P C
64196 T G
64196 T C
64196 IS [GC]
64196 I
64198 P A
64198 P G
64198 T A
64198 T G
64198 IS [AG]
64199 I
64199 P C
64199 P T
64199 T C
64199 T T
64199 IS [CT]
64204 I
64204 P C
64204 P T
64204 T C
64204 T T
64204 IS [CT]
64205 I
64205 P C
64205 P G
64205 T C
64205 T G
64205 IS [CG]
64207 I
64207 P A
64207 P C
64207 T A
64207 T C
64207 IS [AC]
64215 I
64215 P A
64215 P G
64215 T A
64215 T G
64215 IS [AG]
64230 I
64230 P C
64230 P T
64230 T C
64230 T T
64230 IS [CT]
64245 I
64245 P A
64245 P T
64245 T A
64245 T T
64245 IS [AT]
64245 I
64246 P T
64246 P A
64246 T T
64246 T A
64246 IS [TA]
64251 I
64251 P G
64251 P A
64251 T G
64251 T A
64251 IS [GA]
64253 I
64253 P T
64253 P C
64253 T T
A CGCGCCGAGGCCAGACTCCCCGCC
A GGGGGGCGGGGAGTCTGCCTTTAATGTCATTTGGGAGCTTCTTCCGGGAGCTGGGT
A GGGGGGCGGGGAGTCTGGCTTTAATGTCATTTGGGAGCTTCTTCCGGGAGCTGGGT
CAGCGGCTCAGGTGACCACTGATTGCATTAGTCACTCCGGCCCCACTGTGCCCCGGGAGGCAGGTGACCCAGCTCC
CGGAAGAAGCTCCCAAATGACATTAAAG[GC]CAGACTCCCCGCCCCCCAGCTCCCAGAGCCAGTTTTGTGGCCCGAG
GGCCACTGCGACCCACCGCCCTTGTTGCTAGGCAACAGGAGGTGGGGGT
S GGGGCTGTGTCACCCACCTTGAAGCAGA
S CGCGCCGAGGTCTCCCCTACAAGACTTCC
S CGCGCCGAGGCCTCCCCTACAAGACTTCC
S CCCCGGAAGTCTTGTAGGGGAGACTGCTTCAAGGTGGGTGACACAGCCCCAC
S CCCCGGAAGTCTTGTAGGGGAGGCTGCTTCAAGGTGGGTGACACAGCCCCAC
TGCTACACATCCGTGTCCGGGCCTGGGGCCACTCCAGGATCCCCCCGCAGCTCTCACAGCCCCGGCTGCCTCTGCC
CCCCGGAAGTCTTGTAGGGGAG[AG]CTGCTTCAAGGTGGGTGACACAGCCCCACGGCTCCGAGCTCACCAAGATCT
CTTCCTCCATCACCCATAAAGTCCCCTGGTTCCCAAGAAAAGTGTCAGAGCTG
A CCACCCCAGCACAGCCTCCTGACCA
A CGCGCCGAGGCGTGCATCCCCTCTG
A CGCGCCGAGGTGTGCATCCCCTCTGC
A GAGGGCAGAGGGGATGCACGGGTCAGGAGGCTGTGCTGGGGTGGGG
A GAGGGCAGAGGGGATGCACAGGTCAGGAGGCTGTGCTGGGGTGGGG
GATCACATCCCCTACCCTTAGCCCAACCCTGGACAGGAGTCTGTCGGCTCCAGGAGCCTCCGTGGCCTGTGCCCCCA
CCCCAGCACAGCCTCCTGACC[CT]GTGCATCCCCTCTGCCCTCAGGGCTTCTCGGACCAGGTGTACCGCCAGCGCA
GGAAGCTGATTGCTGAGATCGCCTTCCAGTACAGGCAGTGAGGGGCCCCTT
A CCGACCTGAAGATCTGGTGCGGCTCCA
A CGCGCCGAGGCATGAGTGTCCTATTCCCAGA
A CGCGCCGAGGTATGAGTGTCCTATTCCCAGAT
A GGTCATCTGGGAATAGGACACTCATGGGAGCCGCACCAGATCTTCAGGTCGGGC
A GGTCATCTGGGAATAGGACACTCATAGGAGCCGCACCAGATCTTCAGGTCGGGC
CACTSTGATCATCACATAAGTAGGCGTGACTTGAGTCCCAGGCCATGACACTGAAGCCCTCGGAGTGTGACCCGGGG
CCACGGGGCTGTGGATAATGCCCGACCTGAAGATCTGGTGCGGCTCC[CT]ATGAGTGTCCTATTCCAGATGACCCC
CGTGAACCCTGCGACGCGTGGCTTGGGTGACCCGGGACGTTTCCACGGGCG
S CCTGGGACTCAAGTCACGCCTACTTATGTGATGATCAT
S CGCGCCGAGGGAGTGTGTTCCACCAAAATCT
S CGCGCCGAGGCAGTGTGTTCCACCAAAATCT
S TGTAAGATTTTGGTGGAACACACTCTGATCATCACATAAGTAGGCGTGACTTGAGTCCCAGGCC
S TGTAAGATTTTGGTGGAACACACTGTGATCATCACATAAGTAGGCGTGACTTGAGTCCCAGGCC
AGTGTTCACTGGGGAGGCAATTGTCAGTTCAGTAAAAGGCTGGGGATTTGGGGGCTGTCCTTAGACGGAGTCGGAG
CTGTGCTCTGGGATAGATGTGGAAAATGTAAGATTTTGGTGGAACACACT[CG]TGATCATCACATAAGTAGGCGTGAC
TTGAGTCCCAGGCCATGACACTGAAGCCCTCGGAGTGTGACCCGGGGCCA
S GCCTGCACTGCCGCCACGCGC
S CGCGCCGAGGTCCACTTCCGATTCCACA
S CGCGCCGAGGGCCACTTCCGATTCCAC
S TAGCTGTGGAATCGGAAGTGGACGCGTGGCGGCAGTGCAGGCTC
S TAGCTGTGGAATCGGAAGTGGCCGCGTGGCGGCAGTGCAGGCTC
TCTGGCAGGCTCAAGAGCCCAGGGGCTCTTGCATAGCACATGAATATTTCTGGAGGCTTCCCCTTCAGTCTCACCAC
CCGGATGGTGCAGAATTGGTTGTAGCTGTGGAATCGGAAGTGG[AC]CGCGTGGCGGCAGTGCAGGCTCACACATCA
CAGCCCGAGCCCGCCCCAGCTGGGGTTCGCCCGCGGAAACGTCCCGGGTCC
S TCGTGCTGCCAGCAATGYGCAGGCAA
S CGCGCCGAGGTGGGGAACACCTGTGG
S CGCGCCGAGGCGGGGAACACCTGTG
S TTGCCCACAGGTGTTCCCCATGCCTGCRCATTGCTGGCAGCACGACC
S TTGCCCACAGGTGTTCCCCGTGCCTGCRCATTGCTGGCAGCACGACC
CTCCACGCTCAGGGATCATCACGTCCGGCCGGCGGTAGTTGGCACGTGGAGAGGTGAATTTGCCCACAGGTGTTCC
CC[AG]TGCCTGCRCATTGCTGGCAGCACGACCGGATCCTGTGCTAGCCCCTCCCACAATGCCTGGAGCAGGAGCGA
GGGGCCTGGGGAGCCGCCTTGCCTGGAGCATTTGTATTTCCGGAGTATTTCCT
S GCTCAGGGAGATGGGACACAGTTGTCCT
S CGCGCCGAGGGCATCAGTCAAGAGGACC
S CGCGCCGAGGACATCAGTCAAGAGGACCC
S GGCTGGGTCCTCTTGACTGATGCGGACAACTGTGTCCCATCTCCCTGAGCTA
S GGCTGGGTCCTCTTGACTGATGTGGACAACTGTGTCCCATCTCCCTGAGCTA
CCCTGGCTGGGGGCTGAGGGGCCTCCGGGCGGCGACTCTTGGAAAAGCCTGAGGTCAGAAGAGTTCAGAAACGGC
CGTGCTGGCTGGGTCCTCTTGACTGATG[CT]GGACAACTGTGTCCCATCTCCCTGAGCTATTTCTGTTTTCGCAGGAG
TCAGGGGAGGGCTGGAACTCCGGCTTCCCGGCATCCCGGC
A GTGTGACAGTGGCACCTGTCCTGTCCCC
A CGCGCCGAGGAATGTGCCCTCTGGGGY
A CGCGCCGAGGTATGTGCCCTCTGGGGY
A GCTACCCCAGAGGGCACATTGGGACAGGACAGGTGCCACTGTCACACCC
A GCTACCCCAGAGGGCACATAGGGACAGGACAGGTGCCACTGTCACACCC
AACCTCTTCAAAGGGCTTCCAGCAAGAGTAGAATCCACTGCAGTTCCCCTTAGTGACTGAGATGGGGGTGTGACAGTG
GCACCTGTCCTGTCCC[AT]ATGTGCCCTCTGGGGTAGCGCCTTTGAGTCTGAGGATTCAGTTTAAAGATAGTCAATAG
GTTTTTCTTCTGAGTCCAAGGAGGACTCAGGTCAGTGGAAATAAGGAATGTTG
S GAGTCAAAGAACCCAACAGCAAGCAGCGTCTTTAGTTTTTC
S CGCGCCGAGGAGCTCAACAGTCAGAACCT
S CGCGCCGAGGTGCTCAACAGTCAGAACCT
S AATAAGGTTCTGACTGTTGAGCTAAAAACTAAAGACGCTGCTTGCTGTTGGGTTCTTTGACTCAG
S AATAAGGTTCTGACTGTTGAGCAAAAAACTAAAGACGCTGCTTGCTGTTGGGTTCTTTGACTCAG
TCCCAAGAAAACTTGGAGGTAACTCTTTCAAGAGAAAACAATAAGGTTCTGACTGTTGAGC[TA]AAAACTAAAGACGC
TGCTTGCTGTTGGGTTCTTTGACTCAGGGGAGAGTCCCAGGAGAAAGTCACCATGCTG
S CGCCGCAGGCCCCCGTTCTCA
S CGCGCCGAGGCTTCCTACCTGTGCCGG
S CGCGCCGAGGTTTCCTACCTGTGCCGG
S AATCCCGGCACAGGTAGGAAGGAGAACGGGGGCCTGCGGCGGG
S AATCCCGGCACAGGTAGGAAAGAGAACGGGGGCCTGCGGCGGG
CAGCTCGCACTCGCAGGCGACCTGCTCCAGTCTCCAAAGCCGATGGCATCTCCGGGCTCTGGCTTTTGGTCTTTCGG
GTCGGAAGATGGCTCTGGGGATTCCGAGAATCCCGGCACAGGTAGGAA[GA]GAGAACGGGGGCCTGCGGCGGGCG
AGTTTTGCGGTGGTCTGGGGTTTGCGGAACTACGGAGAAG
A CTGGTGTTTAAAAAGGGCCATTAAAAATAAAATTAGTATCTACCGTGTCTTAATATA
A CGCGCCGAGGTGTATCCAATTGGAATTTGATATAAAACT
A CGCGCCGAGGCGTATCCAATTGGAATTTGATATAAAACT
TCCCAGTTTTATATCAAATTCCAATTGGATACAATATTAAGACACGGTAGATACTAATTTTATTTTTAATGGCCCTTTTTA
A AACACCAGTA

				TCCCAGTTTTATATCAAATTCCAATTGGATACGATATTAAGACACGGTAGATACTAATTTTATTTTTAATGGCCCTTTTTA
64253 T	C		A	AACACCAGTA
				AAAAAAAGCACAATGCAAGCACTGTGGTTACTGGTGTTTAAAAAGGGCCATTAAAAATAAAATTAGTATCTACCGTGTC
				TTAATAT[TC]GTATCCAATTGGAATTTGATATAAAACTGGGACCCCAATGGAAATTTTTTTTAGTGAATAAACATACAATT
64253 IS	[TC]			TATTTGGGAAGGTTGAGATTATTTTATTTATTCATTTTTTAAAACCACATTTGGA
64254 I			S	GGTATATCTAGAGATCAAAGTCATAAGATATAACAGCCCATGCTAAATGTT
64254 P	T		S	CGCGCCGAGGATTTTAGCACAGTAAAATACTCCCA
64254 P	C		S	CGCGCCGAGGGTTTTAGCACAGTAAAATACTCCC
				AGCATGGGAGTATTTTACTGTGCTAAAATACATTTAGCATGGGCTGTTATATCTTATGACTTTGATCTCTAGATATACCT
64254 T	T		S	A
				AGCATGGGAGTATTTTACTGTGCTAAAACACATTTAGCATGGGCTGTTATATCTTATGACTTTGATCTCTAGATATACCT
64254 T	C		S	A
				GGTACATATACTGTGTATAGTATTTTATTGTGCTAAAATAGCATGGGAGTATTTTACTGTATTTTATATGTACAGGGTAC
				ATATACTGTATATAGTATTTTATTGTGCTAAAATAGCATGGGAGTATTTTACTGTGCTAAAA[TC]ACATTTAGCATGGGC
64254 IS	[TC]			TGTTATATCTTATGACTTTGATCTCTAGATATACCTATTTCTAAACATATATGGGTAT
64255 I			S	TGAGTGGCGCACAATCAGGACTCTGCTACGATACT
64255 P	T		S	CGCGCCGAGGACCTATCTGTGTTAGTATTGAAGC
64255 P	G		S	CGCGCCGAGGCCCTATCTGTGTTAGTATTGAAGC
64255 T	T		S	TCCGGCTTCAATACTAACACAGATAGGTGTATCGTAGCAGAGTCCTGATTGTGCGCCACTCAGC
64255 T	G		S	TCCGGCTTCAATACTAACACAGATAGGGGTATCGTAGCAGAGTCCTGATTGTGCGCCACTCAGC
				GAGCCAAGACAGTGAGAGCAGCTGTATGCATTTATTATTTAAACCTTTCTCAAAGTGTTCGTTGCTCCGGCTTCAATA
				CTAACACAGATAGG[TG]GTATCGTAGCAGAGTCCTGATTGTGCGCCACTCAGCCCGGGTCAGTCCGCTTTACATGAA
64255 IS	[TG]			GTGAAATAAAATCTGTACGTCCTATATTTTCAAGGCCTCAGCAGCAGATCTGC
64256 I			A	GCAGATCTGCCCATGAGTGCAGAAAACAGTGCA
64256 P	C		A	CGCGCCGAGGCCCATGAGAACCAGAGCA
64256 P	T		A	CGCGCCGAGGTCCATGAGAACCAGAGCA
64256 T	C		A	CACTTGCTCTGGTTCTCATGGGGCACTGTTTTCTGCACTCATGGGCAGATCTGCTG
64256 T	T		A	CACTTGCTCTGGTTCTCATGGAGCACTGTTTTCTGCACTCATGGGCAGATCTGCTG
				CCGCTTTTACATGAAGTGAAATAAAATCTGTACGTCCTATATTTTCAAGGCCTCAGCAGCAGATCTGCCCATGAGTGCA
				GAAAACAGTGC[CT]CCATGAGAACCAGAGCAAGTGGGCAGGCACAGCACCATCCAAGTTCATTCTTAGAAAAGAAGTG
64256 IS	[CT]			TTTCTTCAGAGGAAGCGTAGTCTGCCCACCCTACAGACAACCTTTTACATT
64269 I			S	GCTTTCCTGGGGTTCCTTGCAGCTATGTTTCAGATGTAATTA
64269 P	A		S	CGCGCCGAGGTTGTTTCCACCAATCAGATGT
64269 P	G		S	CGCGCCGAGGCTGTTTCCACCAATCAGATGT
64269 T	A		S	CGGCACATCTGATTGGTGGAAACAAAATTACATCTGAAACATAGCTGCAAGGAACCCCAGGAAAGCTC
64269 T	G		S	CGGCACATCTGATTGGTGGAAACAGAATTACATCTGAAACATAGCTGCAAGGAACCCCAGGAAAGCTC
				AATCGACTGGCTATAAGACTATCCTGCTGTGACCATTTGTGCTAGAAAAATAGATGTCTATCACTTGTCTGCCATTAAT
				GCAGTTTCAAAAGCAAGTGAGGTATCGGCACATCTGATTGGTGGAAACA[AG]AATTACATCTGAAACATAGCTGCAAG
64269 IS	[AG]			GAACCCCAGGAAAGCTCATTTTCAAATTTTCAGCCACTATAATATAGGAAGGC
64270 I			S	GGATCAGGCCCCCTGGCAGGGTT
64270 P	C		S	CGCGCCGAGGGCTGCTTGGTCAGGAGA
64270 P	G		S	CGCGCCGAGGCCTGCTTGGTCAGGAGA
64270 T	C		S	ATGATCTCCTGACCAAGCAGCACCCTGCCAGGGGGCCTGATCCAT
64270 T	G		S	ATGATCTCCTGACCAAGCAGGACCCTGCCAGGGGGCCTGATCCAT
				GGAGTGAACATTGATACAACCTTCTAAACAGCAATTTGGTAGCAAATATCAGGAGTCTTAAACCATATCACATGATCTC
				CTGACCAAGCAG[CG]ACCCTGCCAGGGGGCCTGATCCATCAGTTTATCAGACATTTCCAAGCAGGTCAGGGTCCCCA
64270 IS	[CG]			TTAAAGTTCAAGTTAGGACTCCAAACCCATATACATAAATGC
64271 I			A	CCTAAATGCCCTCAGAATTTAATGCAATAATATCAGCCTTTCAAAT
64271 P	G		A	CGCGCCGAGGGGCATAAATTACGCAAACCAG
64271 P	A		A	CGCGCCGAGGAGCATAAATTACGCAAACCAGA
64271 T	G		A	AAAATCTGGTTTGCGTAATTTATGCCTTTGAAAGGCTGATATTATTGCATTAAATTCTGAGGGCATTTAGGAA
64271 T	A		A	AAAATCTGGTTTGCGTAATTTATGCTTTTGAAAGGCTGATATTATTGCATTAAATTCTGAGGGCATTTAGGAA
				ATTTAGAGTTTCAGTGGCAGTGTTTTTCCTAAATGCCCTCAGAATTTAATGCAATAATATCAGCCTTTCAAA[GA]GCATA
				AATTACGCAAACCAGATTTTGGAAGTTTCATTTACTGCCTCATCAGTGCATAAAATAGCGAGAACCGTATGCACCTGGA
64271 IS	[GA]			AACTCCACCTGTCTGGTCCAAGGGAGTCAAGGGTAGAATGACATGGGAAAG
64273 I			S	CTTCTACAGGCCCCAGCTCAAGAGACCCCT
64273 P	T		S	CGCGCCGAGGATCTCTCCTCCTCTCTGTCA
64273 P	C		S	CGCGCCGAGGGTCTCTCCTCCTCTCTGTC
64273 T	T		S	CAAGTGACAGAGAGGAGGAGAGATGGGGTCTCTTGAGCTGGGGCCTGTAGAAGCT
64273 T	C		S	CAAGTGACAGAGAGGAGGAGAGACGGGGTCTCTTGAGCTGGGGCCTGTAGAAGCT
				GGGGCAGCTGAATACGGGGGTCTGGATCTCAGGGCAAGGAGGCGAGTCCAGGAGTGTGATCATGCACGGATCCAGC
				ATGGCAAGTGACAGAGAGGAGGAGAGA[TC]GGGGTCTCTTGAGCTGGGGCCTGTAGAAGCTTCTCTACCCAGCCCC
64273 IS	[TC]			CATCAGAGTTCACCCCAATTTCTGGCCCTCAAGCCTGGCTCATGCTACACCC
64274 I			S	CCCCTGACACCCTCTGTCCCCCCAGA
64274 P	G		S	CGCGCCGAGGCACCCTTTCGGCTGTG
64274 P	A		S	CGCGCCGAGGTACCCTTTCGGCTGTGC
64274 T	G		S	TGGGGCACAGCCGAAAGGGTGCTGGGGGGACAGAGGGTGTCAGGGGAG
64274 T	A		S	TGGGGCACAGCCGAAAGGGTACTGGGGGGACAGAGGGTGTCAGGGGAG
				GAAGTCCTCTGGCTCTTCGAAGACCTTCTCACATCCGGGCCACTTGCAGACACCATTTGCCAGCAGTGGGTAGGAGC
				TCTGGGGCACAGCCGAAAGGGT[GA]CTGGGGGGACAGAGGGTGTCAGGGGAGGGGATAGGAGGGCGAGGATCCTT
64274 IS	[GA]			CCCAGCCCTGTCCACTGACCTGTCCTTCCTGGGTGCACTGGGATTTGGGA
64275 I			S	CCAGTATGTCAATACACCCCAACTGGGCACCT
64275 P	T		S	CGCGCCGAGGATTCCCAACCTTTCCTTGTAAC
64275 P	C		S	CGCGCCGAGGGTTCCCAACCTTTCCTTGTAA
64275 T	T		S	GGGTGTTACAAGGAAAGGTTGGGAATGGTGCCCAGTTGGGGGTGTATTGACATACTGGGG
64275 T	C		S	GGGTGTTACAAGGAAAGGTTGGGAACGGTGCCCAGTTGGGGGTGTATTGACATACTGGGG
				CTAGGATGAAGGTTCTGAGAAGGCATTGGGGAGGCTGAGATGAAGGAGTTGGGATGGGGTGATGAAGTTAAGGATC
				AAATGGGTGTTACAAGGAAAGGTTGGGAA[TC]GGTGCCCAGTTGGGGGTGTATTGACATACTGGGGTACGTTGGGGC
64275 IS	[TC]			CAGGGAAGGAGATGGGGTTGGGTTGGCATAAAGGCTGGGGAAGGAGTTA
64282 I			S	TTCCTAATCTCTTAGCTTGATATATGGTTAAAAAGGAAATTCCTCTGTATT
64282 P	G		S	CGCGCCGAGGCTCAGCCACCCAAAGCV
64282 P	T		S	CGCGCCGAGGATCAGCCACCCAAAGCV
64282 T	G		S	TTCTGCTTTGGGTGGCTGAGATACAGAGGAATTTCCTTTTTAACCATATATCAAGCTAAGAGATTAGGAA
64282 T	T		S	TTCTGCTTTGGGTGGCTGATATACAGAGGAATTTCCTTTTTAACCATATATCAAGCTAAGAGATTAGGAA

FIGURE 129D


64282 IS [GT]
64287 I A
64287 P C A
64287 P G A
64287 T C A
64287 T G A
64287 IS [CG]
64289 I A
64289 P A A
64289 P G A
64289 T A A
64289 T G A
64289 IS [AG]
64291 I S
64291 P C S
64291 P G S
64291 T C S
64291 T G S
64291 IS [CG]
64293 I A
64293 P C A
64293 P A A
64293 T C A
64293 T A A
64293 IS [CA]
64303 I S
64303 P C S
64303 P G S
64303 T C S
64303 T G S
64303 IS [CG]
64309 I S
64309 P T S
64309 P A S
64309 T T S
64309 T A S
64309 IS [TA]
64319 I S
64319 P T S
64319 P C S
64319 T T S
64319 T C S
64319 IS [TC]
64322 I S
64322 P C S
64322 P T S
64322 T C S
64322 T T S
64322 IS [CT]
64324 I S
64324 P C S
64324 P T S
64324 T C S
64324 T T S
64324 IS [CT]
64328 I A
64328 P C A
64328 P T A
64328 T C A
64328 T T A
64328 IS [CT]
64330 I S
64330 P T S
64330 P C S
64330 T T S
64330 T C S
64330 IS [TC]
64331 I S
64331 P C S
64331 P A S
64331 T C S
64331 T A S
64331 IS [CA]
64332 I S
64332 P T S
64332 P C S
64332 T T S
64332 T C S
64332 IS [TC]
64334 I S

FIGURE 129D

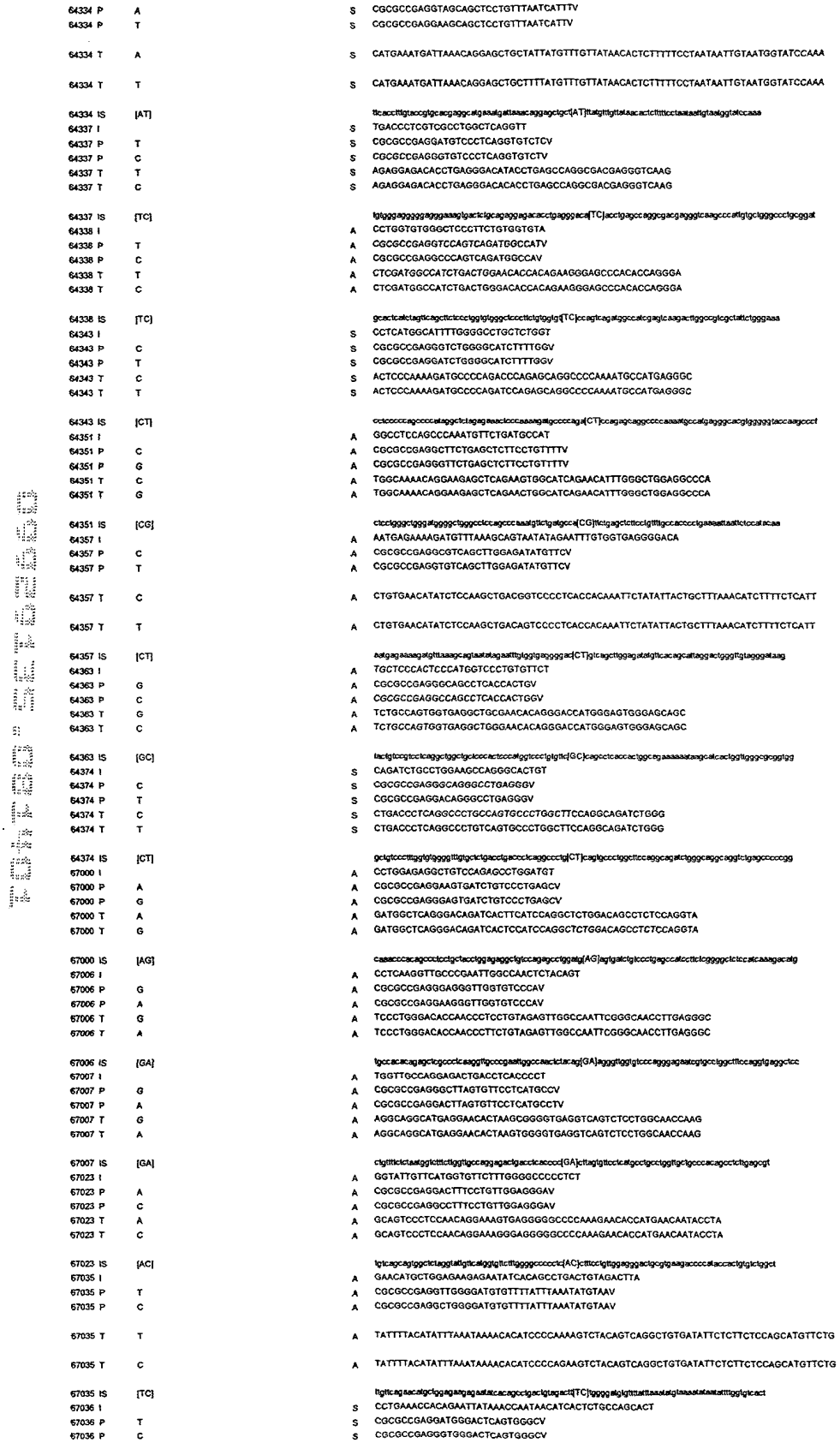

64334 P A S CGCGCCGAGGTAGCAGCTCCTGTTTAATCATTTV
64334 P T S CGCGCCGAGGAAGCAGCTCCTGTTTAATCATTV
64334 T A S CATGAAATGATTAAACAGGAGCTGCTATTATGTTTGTTATAACACTCTTTTTCCTAATAATTGTAATGGTATCCAAA
64334 T T S CATGAAATGATTAAACAGGAGCTGCTTTTATGTTTGTTATAACACTCTTTTTCCTAATAATTGTAATGGTATCCAAA
64334 IS [AT]
64337 I S TGACCCTCGTCGCCTGGCTCAGGTT
64337 P T S CGCGCCGAGGATGTCCCTCAGGTGTCTCV
64337 P C S CGCGCCGAGGGTGTCCCTCAGGTGTCTV
64337 T T S AGAGGAGACACCTGAGGGACATACCTGAGCCAGGCGACGAGGGTCAAG
64337 T C S AGAGGAGACACCTGAGGGACACACCTGAGCCAGGCGACGAGGGTCAAG
64337 IS [TC]
64338 I A CCTGGTGTGGGCTCCCTTCTGTGGTGTA
64338 P T A CGCGCCGAGGTCCAGTCAGATGGCCATV
64338 P C A CGCGCCGAGGCCCAGTCAGATGGCCAV
64338 T T A CTCGATGGCCATCTGACTGGAACACCACAGAAGGGAGCCCACACCAGGGA
64338 T C A CTCGATGGCCATCTGACTGGGACACCACAGAAGGGAGCCCACACCAGGGA
64338 IS [TC]
64343 I S CCTCATGGCATTTTGGGGCCTGCTCTGGT
64343 P C S CGCGCCGAGGGTCTGGGGCATCTTTTGGV
64343 P T S CGCGCCGAGGATCTGGGGCATCTTTTGGV
64343 T C S ACTCCCAAAAGATGCCCCAGACCCAGAGCAGGCCCCAAAATGCCATGAGGGC
64343 T T S ACTCCCAAAAGATGCCCCAGATCCAGAGCAGGCCCCAAAATGCCATGAGGGC
64343 IS [CT]
64351 I A GGCCTCCAGCCCAAATGTTCTGATGCCAT
64351 P C A CGCGCCGAGGCTTCTGAGCTCTTCCTGTTTTV
64351 P G A CGCGCCGAGGGTTCTGAGCTCTTCCTGTTTTV
64351 T C A TGGCAAAACAGGAAGAGCTCAGAAGTGGCATCAGAACATTTGGGCTGGAGGCCCA
64351 T G A TGGCAAAACAGGAAGAGCTCAGAACTGGCATCAGAACATTTGGGCTGGAGGCCCA
64351 IS [CG]
64357 I A AATGAGAAAAGATGTTTAAAGCAGTAATATAGAATTTGTGGTGAGGGGACA
64357 P C A CGCGCCGAGGCGTCAGCTTGGAGATATGTTCV
64357 P T A CGCGCCGAGGTGTCAGCTTGGAGATATGTTCV
64357 T C A CTGTGAACATATCTCCAAGCTGACGGTCCCCTCACCACAAATTCTATATTACTGCTTTAAACATCTTTTCTCATT
64357 T T A CTGTGAACATATCTCCAAGCTGACAGTCCCCTCACCACAAATTCTATATTACTGCTTTAAACATCTTTTCTCATT
64357 IS [CT]
64363 I A TGCTCCCACTCCCATGGTCCCTGTGTTCT
64363 P G A CGCGCCGAGGGCAGCCTCACCACTGV
64363 P C A CGCGCCGAGGCCAGCCTCACCACTGGV
64363 T G A TCTGCCAGTGGTGAGGCTGCGAACACAGGGACCATGGGAGTGGGAGCAGC
64363 T C A TCTGCCAGTGGTGAGGCTGGGAACACAGGGACCATGGGAGTGGGAGCAGC
64363 IS [GC]
64374 I S CAGATCTGCCTGGAAGCCAGGGCACTGT
64374 P C S CGCGCCGAGGGCAGGGCCTGAGGGV
64374 P T S CGCGCCGAGGACAGGGCCTGAGGGV
64374 T C S CTGACCCTCAGGCCCTGCCAGTGCCCTGGCTTCCAGGCAGATCTGGG
64374 T T S CTGACCCTCAGGCCCTGTCAGTGCCCTGGCTTCCAGGCAGATCTGGG
64374 IS [CT]
67000 I A CCTGGAGAGGCTGTCCAGAGCCTGGATGT
67000 P A A CGCGCCGAGGAAGTGATCTGTCCCTGAGCV
67000 P G A CGCGCCGAGGGAGTGATCTGTCCCTGAGCV
67000 T A A GATGGCTCAGGGACAGATCACTTCATCCAGGCTCTGGACAGCCTCTCCAGGTA
67000 T G A GATGGCTCAGGGACAGATCACTCCATCCAGGCTCTGGACAGCCTCTCCAGGTA
67000 IS [AG]
67006 I A CCTCAAGGTTGCCCGAATTGGCCAACTCTACAGT
67006 P G A CGCGCCGAGGGAGGGTTGGTGTCCCAV
67006 P A A CGCGCCGAGGAAGGGTTGGTGTCCCAV
67006 T G A TCCCTGGGACACCAACCCTCCTGTAGAGTTGGCCAATTCGGGCAACCTTGAGGGC
67006 T A A TCCCTGGGACACCAACCCTTCTGTAGAGTTGGCCAATTCGGGCAACCTTGAGGGC
67006 IS [GA]
67007 I A TGGTTGCCAGGAGACTGACCTCACCCCT
67007 P G A CGCGCCGAGGGCTTAGTGTTCCTCATGCCV
67007 P A A CGCGCCGAGGACTTAGTGTTCCTCATGCCTV
67007 T G A AGGCAGGCATGAGGAACACTAAGCGGGGTGAGGTCAGTCTCCTGGCAACCAAG
67007 T A A AGGCAGGCATGAGGAACACTAAGTGGGGTGAGGTCAGTCTCCTGGCAACCAAG
67007 IS [GA]
67023 I A GGTATTGTTCATGGTGTTCTTTGGGGCCCCCTCT
67023 P A A CGCGCCGAGGACTTTCCTGTTGGAGGGAV
67023 P C A CGCGCCGAGGCCTTTCCTGTTGGAGGGAV
67023 T A A GCAGTCCCTCCAACAGGAAAGTGAGGGGGCCCCAAAGAACACCATGAACAATACCTA
67023 T C A GCAGTCCCTCCAACAGGAAAGGGAGGGGGCCCCAAAGAACACCATGAACAATACCTA
67023 IS [AC]
67035 I A GAACATGCTGGAGAAGAAGAATATCACAGCCTGACTGTAGACTTA
67035 P T A CGCGCCGAGGTTGGGGATGTGTTTTATTTAAATATGTAAV
67035 P C A CGCGCCGAGGCTGGGGATGTGTTTTATTTAAATATGTAAV
67035 T T A TATTTTACATATTTAAATAAAACACATCCCCAAAAGTCTACAGTCAGGCTGTGATATTCTCTTCTCCAGCATGTTCTG
67035 T C A TATTTTACATATTTAAATAAAACACATCCCCAGAAGTCTACAGTCAGGCTGTGATATTCTCTTCTCCAGCATGTTCTG
67035 IS [TC]
67036 I S CCTGAAACCACAGAATTATAAACCAATAACATCACTCTGCCAGCACT
67036 P T S CGCGCCGAGGATGGGACTCAGTGGGCV
67036 P C S CGCGCCGAGGGTGGGACTCAGTGGGCV

FIGURE 129D

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67036 T   T       S  GTAAGCCCACTGAGTCCCATGTGCTGGCAGAGTGATGTTATTGGTTTATAATTCTGTGGTTTCAGGCC

67036 T   C       S  GTAAGCCCACTGAGTCCCACGTGCTGGCAGAGTGATGTTATTGGTTTATAATTCTGTGGTTTCAGGCC

67036 IS  [TC]       tgctgtgtcattcataaagacttgggctgtgtaagcccactgagtccca[TC]gtgctggcagagtgatgttattggtttataatttctgtggtttcaggcctc
67038 I   -       S  AGGGCTTAGTCTAAATCCTTCCTGCTGTTCAATGTGCTATCTT
67038 P   C       S  CGCGCCGAGGGAGGAGGAGAGAAGTCATGGV
67038 P   T       S  CGCGCCGAGGAAGGAGGAGAGAAGTCATGGV

67038 T   C       S  TATGCCATGACTTCTCTCCTCCTCAGATAGCACATTGAACAGCAGGAAGGATTTAGACTAAGCCCTAT

67038 T   T       S  TATGCCATGACTTCTCTCCTCCTTAGATAGCACATTGAACAGCAGGAAGGATTTAGACTAAGCCCTAT

67038 IS  [CT]       cacgtggatgttcaaagactcaacgggtatgccatgactctctcctcct[CT]agatagcacattgaacagcaggaaggattagactaagccctatgaaaaa
67039 I   -       A  GCTCACCTGTCTTCCGCACCCCCAC
67039 P   T       A  CGCGCCGAGGTCCCTGCTAACCCTGGV
67039 P   G       A  CGCGCCGAGGGCCCTGCTAACCCTGV
67039 T   T       A  TGTACCAGGGTTAGCAGGGATGGGGGTGCGGAAGACAGGTGAGCCC
67039 T   G       A  TGTACCAGGGTTAGCAGGGCTGGGGGTGCGGAAGACAGGTGAGCCC

67039 IS  [TG]       tgtgaatcaggttggtgggctgtgggctcacctgtcttccgcaccccca[TG]ccctgctaaccctggtacacccccccgggagacctcgagtcctcatcca
67040 I   -       A  GGCACCTGAGAATAATTTCTTGCCCTAGAACCAAGAGTGAA
67040 P   C       A  CGCGCCGAGGCGGGACTTGGAACAGGTV
67040 P   T       A  CGCGCCGAGGTGGGACTTGGAACAGGTV
67040 T   C       A  TAGAACCTGTTCCAAGTCCCGTCACTCTTGGTTCTAGGGCAAGAAATTATTCTCAGGTGCCAG
67040 T   T       A  TAGAACCTGTTCCAAGTCCCATCACTCTTGGTTCTAGGGCAAGAAATTATTCTCAGGTGCCAG

67040 IS  [CT]       tgagccagctggcacctagaataatttcttgcctagaaccaagagtga[CT]gggacttggaacaggttctatttgtgtgataccatgtggtgccagatgca
67045 I   -       A  TCCCCTTTGCTGTGGCCTTTGAAGCCCT
67045 P   INS     A  CGCGCCGAGGCCTGAGTGTGCAGGGV
67045 P   DEL     A  CGCGCCGAGGCGAGTGTGCAGGGCTV
67045 T   INS     A  TCAGCCCTGCACACTCAGGGGGCTTCAAAGGCCACAGCAAAGGGGAGG
67045 T   DEL     A  TCTCAGCCCTGCACACTCGGGGCTTCAAAGGCCACAGCAAAGGGGAGG

67045 IS  [-CT]      CTGAAATAGCTCTTTCTGGGCCTCCCCTTTGCTGTGGCCTTTGAAGCCCC[-
                     CT]GAGTGTGCAGGGCTGAGAGTCCCTGCGTCCTGTGGCTGCCCTGGACAGGC
67049 I   -       A  GGGTGAGTCACAAAGGACTCCAGAGCAGCAGT
67049 P   G       A  CGCGCCGAGGGCAACACCACGCTACACV
67049 P   A       A  CGCGCCGAGGACAACACCACGCTACACV
67049 T   G       A  CCCAGTGTAGCGTGGTGTTGCCTGCTGCTCTGGAGTCCTTTGTGACTCACCCCT
67049 T   A       A  CCCAGTGTAGCGTGGTGTTGTCTGCTGCTCTGGAGTCCTTTGTGACTCACCCCT

67049 IS  [GA]       gtggacccctaatccaggggtgagtcacaaaggactccagagcagcag[GA]caacaccacgctacactgggatgcaacatgagagccgatccgtcgattta
67050 I   -       A  CAGCCCTTTAGCATACACAGGCCTGCCACT
67050 P   A       A  CGCGCCGAGGATGCTGGGGACAGGGV
67050 P   G       A  CGCGCCGAGGGTGCTGGGGACAGGGV
67050 T   A       A  GTGGCCCTGTCCCCAGCATGTGGCAGGCCTGTGTATGCTAAAGGGCTGAA
67050 T   G       A  GTGGCCCTGTCCCCAGCACGTGGCAGGCCTGTGTATGCTAAAGGGCTGAA

67050 IS  [AG]       tctgggaacaggaacctgcttcagccctttagcatacacaggcctgccac[AG]tgctggggacagggcacctgagtccctgcctggtcccatgtgtgggtgc
67052 I   -       S  GGTGAAAAGGTTCTCATGGCGACAAACACAATCAGTACTTTCTGA
67052 P   A       S  CGCGCCGAGGTGTAAGAGCAATGTTTGCTTTTTV
67052 P   G       S  CGCGCCGAGGCGTAAGAGCAATGTTTGCTTTTV

67052 T   A       S  ACCCAAAAAGCAAACATTGCTCTTACACAGAAAGTACTGATTGTGTTTGTCGCCATGAGAACCTTTTCACCCA

67052 T   G       S  ACCCAAAAAGCAAACATTGCTCTTACGCAGAAAGTACTGATTGTGTTTGTCGCCATGAGAACCTTTTCACCCA

67052 IS  [AG]       tcttcctgctgggtcacgcatattacccaaaaagcaaacattgctcttac[AG]cagaaagtactgattgtgtttgtcgccatgagaacctttttcacccatacc
67055 I   -       A  GGAGCAAACAGAGCGCATCGCTTTCCTTCCA
67055 P   T       A  CGCGCCGAGGTTGGGCCCTGACTGCV
67055 P   C       A  CGCGCCGAGGCTGGGCCCTGACTGCV
67055 T   T       A  GGGTGCAGTCAGGGCCCAAGGAAGGAAAGCGATGCGCTCTGTTTGCTCCGA
67055 T   C       A  GGGTGCAGTCAGGGCCCAGGGAAGGAAAGCGATGCGCTCTGTTTGCTCCGA

67055 IS  [TC]       aaggggtacccacccatctcggagcaaacagagcgcatcgctttcctcc[TC]tgggccctgacgcaccgcctcccaacttcagctctgctcctgaattc
67063 I   -       S  TGGTCAATATATGCCTCTTAGAAGCTGTGTCAAGAGGGATATCATGTTTT
67063 P   INS     S  CGCGCCGAGGCCTTTAAAGAGTATTCGTTTTCCATTTV
67063 P   DEL     S  CGCGCCGAGGCTTTAAAGAGTATTCGTTTTCCATTTGTV
                     CTACAAATGGAAAACGAATACTCTTTAAAGGAAACATGATATCCCTCTTGACACAGCTTCTAAGAGGCATATATTGACC
67063 T   INS     S  AG
                     TTCTACAAATGGAAAACGAATACTCTTTAAAGAAACATGATATCCCTCTTGACACAGCTTCTAAGAGGCATATATTGACC
67063 T   DEL     S  AG

67063 IS  [-G]       tgcagtaaagtcatcactctactaaatggaaaacgaatactcttaaag[-G]aaacatgatatcccctcttgacacagcttctaagaggcatatattgaccag
67069 I   -       S  AGCATCATCAACCATGTCCTCTGGCATGAGACTGAA
67069 P   A       S  CGCGCCGAGGTTTACCTTATCCTTAGCAAAACTTAAACV
67069 P   G       S  CGCGCCGAGGCTTACCTTATCCTTAGCAAAACTTAAACV

67069 T   A       S  TAAGGTTTAAGTTTTGCTAAGGATAAGGTAAATCAGTCTCATGCCAGAGGACATGGTTGATGATGCTGT

67069 T   G       S  TAAGGTTTAAGTTTTGCTAAGGATAAGGTAAGTCAGTCTCATGCCAGAGGACATGGTTGATGATGCTGT

67069 IS  [AG]       gaaatatcatgagatttgtaaggttaagtttgctaaggataaggtaa[AG]tcagtctcatgccagaggacatggttgatgatgctgtagtgttatctgta
67071 I   -       A  CCAGTGAGACCTGGGTTTGTTCCCTCCCCT
67071 P   C       A  CGCGCCGAGGCCTGGCTGTGTGATGGV
67071 P   A       A  CGCGCCGAGGACTGGCTGTGTGATGGAV
67071 T   C       A  TGCCTCCATCACACAGCCAGGGGGGAGGGAACAAACCCAGGTCTCACTGGCA
67071 T   A       A  TGCCTCCATCACACAGCCAGTGGGGAGGGAACAAACCCAGGTCTCACTGGCA

67071 IS  [CA]       agggaggttcagtgtctgctgccagtgagacctgggttgttccctcccc[CA]ctggctgtgtgatgggaggcaagacccttcatcttgagcctcagtgtcc
67076 I   -       S  CGGGAAAGGCGGCGTTCTGCCAT
67076 P   C       S  CGCGCCGAGGGCACACTGCCTTTGAACTV
67076 P   T       S  CGCGCCGAGGACACACTGCCTTTGAACTCV
67076 T   C       S  GCTGGAGTTCAAAGGCAGTGTGCTGGCAGAACGCCGCCTTTCCCGGG
67076 T   T       S  GCTGGAGTTCAAAGGCAGTGTGTTGGCAGAACGCCGCCTTTCCCGGG
                     GGAGCCCCAGGGAAGGAGGGGCATTGCAGCTGGAGTTCAAAGGCAGTGTG[CT]TGGCAGAACGCCGCCTTTCCCGG
67076 IS  [CT]       GGAGGCCAGTCTTTTTTCTCTGAAGGC
67082 I   -       S  CCGAAGTCCCCGAGTTCAGAGCCCTGATCT
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FIGURE 129D

67082 P	C	S	CGCGCCGAGGGTGCAGCATTGCAATTGCV		
67082 P	T	S	CGCGCCGAGGATGCAGCATTGCAATTGCV		
67082 T	C	S	AAAAGCAATTGCAATGCTGCACGATCAGGGCTCTGAACTCGGGGACTTCGGGG		
67082 T	T	S	AAAAGCAATTGCAATGCTGCATGATCAGGGCTCTGAACTCGGGGACTTCGGGG		
67082 IS	[CT]		catgtctgcccccaggacgcagctacattaaaagcaattgcaatgctgca[CT]gatcagggctctgaactcggggacttcgggggtccagagggcacctggcc		
67084 I		A	CAGGGGAGGCTCTGAGCCCTGCCT		
67084 P	C	A	CGCGCCGAGGCGTCCTGGTTGCTGCV		
67084 P	G	A	CGCGCCGAGGGGTCCTGGTTGCTGCV		
67084 T	C	A	AACAGCAGCAACCAGGACGGGCAGGGCTCAGAGCCTCCCCTGTG		
67084 T	G	A	AACAGCAGCAACCAGGACCGGCAGGGCTCAGAGCCTCCCCTGTG		
67084 IS	[CG]		gcctgggctgtctgtatctctggcacacaggggaggctctgagccctgcc[CG]gtcctggttgctgctgttcctagcgctcaggacagtgcatgcgtggtgtg		
67088 I		A	AGTGGTCCCTCATGGCCACTGGTGGAC		
67088 P	T	A	CGCGCCGAGGTCAGGTATGGGAGTGAAGGV		
67088 P	G	A	CGCGCCGAGGGCAGGTATGGGAGTGAAGV		
67088 T	T	A	CCCTCCTTCACTCCCATACCTGATCCACCAGTGGCCATGAGGGACCACTGT		
67088 T	G	A	CCCTCCTTCACTCCCATACCTGCTCCACCAGTGGCCATGAGGGACCACTGT		
67088 IS	[TG]		ccacctttcaattcagtcctcaacagtggtcccctcatggccactggtggat[TG]caggtatgggagtgaaggagggtgtcgtgggcagcgctgtgagaggggct		
67089 I		A	AGCTCTTTAATCCCTGCCTTGGGCTATGTTTTCCAGAAGA		
67089 P	C	A	CGCGCCGAGGCCCTTCCCCAAAAATGTCCV		
67089 P	T	A	CGCGCCGAGGTCCTTCCCCAAAAATGTCCV		
67089 T	C	A	CCATGGACATTTTTGGGGAAGGGCTTCTGGAAAACATAGCCCAAGGCAGGGATTAAAGAGCTAA		
67089 T	T	A	CCATGGACATTTTTGGGGAAGGACTTCTGGAAAACATAGCCCAAGGCAGGGATTAAAGAGCTAA		
67089 IS	[CT]		CGGCCAGCATTAGCTCTTTAATCCCTGCCTTGGGCTATGTTTTCCAGAAG[CT]CCTTCCCCAAAAATGTCCATGGGAA AAAAAAAAAAATTATATATATATA		
67090 I		S	CTGAGCATGTGTGGCTCTGAGCCCTGCT		
67090 P	C	S	CGCGCCGAGGGCTCGTTTGCCAGCTV		
67090 P	G	S	CGCGCCGAGGCCTCGTTTGCCAGCTGV		
67090 T	C	S	TCAGCAGCTGGCAAACGAGCGCAGGGCTCAGAGCCACACATGCTCAGGG		
67090 T	G	S	TCAGCAGCTGGCAAACGAGGGCAGGGCTCAGAGCCACACATGCTCAGGG		
67090 IS	[CG]		ACCTGCCTAGAACCACATCACAATCGCAGCCTCAGCAGCTGGCAAACGAG[CG]GCAGGGCTCAGAGCCACACATGCT CAGGGAGTTGCAGGGTGACCCAGATT		
67095 I		S	CAGAGCTGAGCATGGACCCACCCTTGCT		
67095 P	T	S	CGCGCCGAGGATCTCTGGGCACCTGCV		
67095 P	C	S	CGCGCCGAGGGTCTCTGGGCACCTGCV		
67095 T	T	S	GGGCGCAGGTGCCCAGAGATGCAAGGGTGGGTCCATGCTCAGCTCTGGT		
67095 T	C	S	GGGCGCAGGTGCCCAGAGACGCAAGGGTGGGTCCATGCTCAGCTCTGGT		
67095 IS	[TC]		tlgcccclgaggagggtgggtggctctgcccagggcgcaggtgcccagagg[TC]gcaagggtgggtccatgctcagctctggtggtgtgggtcgtttcaaggg		
4232 I		S	GGAATATGGACGTGGGTGGGAACCAACAAATCTCTA		
4232 P	A	S	CGCGCCGAGGTACTGAAGAAGCAGAGAACTY		
4232 P	G	S	ATGACGTGGCAGACCACTGAAGAAGCAGAGAACY		
4232 T	A	S	CCCCAGTTCTCTGCTTCTTCAGTAAGAGATTTGTTGGTTCCCACCCACGTCCATATTCCTC		
4232 T	G	S	CCCCAGTTCTCTGCTTCTTCAGTGAGAGATTTGTTGGTTCCCACCCACGTCCATATTCCTC		
4232 IS	[AG]		*TGCCTGCATCTTTGTTTCTCTTGATATAGATCTCCACGCAGTCCTCCTTGTTCTTCTTGTTGTTGGGCTCACCATCTCC* CCAGTTCTCTGCTTCTTCAGT[AG]AGAGATTTGTTGGTTCCCACCCACGTCCATATTCCTCCTATCTTCCGGATTCCTA TCCAGTAGTAAGAACGACTGAAAGGCAGAGTCTTCTCCAGATACT		SELL
4509 I		S	GACCGCGGAGGTGAGCGCCAGA		
4509 P	G	S	ATGACGTGGCAGACCAGGGCGAGGAGGY		
4509 P	A	S	CGCGCCGAGGTAGGGCGAGGAGGGY		
4509 T	G	S	CTCACCCTCCTCGCCCTGCTGGCGCTCACCTCCGCGGTCGC		
4509 T	A	S	CTCACCCTCCTCGCCCTAGTGGCGCTCACCTCCGCGGTCGC		
4509 IS	[GA]		CGCGGCCCCGGTGGGAAAGGGGACGGGCCAGGGATTCAGACTCGGGCTCTCCCCTCAGGATGCAGCACCGAGGCT TCCTCCTCCTCACCCTCCTCGCCCT[GA]CTGGCGCTCACCTCCGCGGTCGCCAAAAAGAAAGGTGATGGGGGATGAT CGAAGGAGGGCTGGGGACGGGCAGGCAGGCCCCTCCACTTCTGGCTGGCCG		
4621 I		S	GGAATGACAGAGATCAGAGACCCTGGAACGCATATA		
4621 P	A	S	CGCGCCGAGGTTAGTTACACAAAAACGCCAY		
4621 P	G	S	ATGACGTGGCAGACCTAGTTACACAAAAACGCCY		
4621 T	A	S	GCCCTGGCGTTTTTGTGTAACTAAATATGCGTTCCAGGGTCTCTGATCTCTGTCATTCCCC		
4621 T	G	S	GCCCTGGCGTTTTTGTGTAACTAGATATGCGTTCCAGGGTCTCTGATCTCTGTCATTCCCC		
4621 IS	[AG]		GAGTGCAGATGTGTGCCCTCCCGCTCCATGGGCTGGGTTGGAGTAGGGATGGGGTGGGGCGTGTGTGGCTGGGTG GTGCCCTGGCGTTTTTGTGTAACTA[AG]ATATGCGTTCCAGGGTCTCTGATCTCTGTCATTCCCCTCAGTGCA*CCTGT TGCTCCTTTCACCCCAGGGTCTATTATCTCCACTTTTTTTCCCAGGGCTT*		
5179 I		S	CCGTGCTCCCCAGGTGCCTCCT		
5179 P	T	S	CGCGCCGAGGAGGGTGCTGAAGATCTTY		
5179 P	C	S	ATGACGTGGCAGACGGGGTGCTGAAGATCTY		
5179 T	T	S	TGAAAAGATCTTCAGCACCCTGGAGGCACCTGGGGAGCACGGCC		
5179 T	C	S	TGAAAAGATCTTCAGCACCCCGGAGGCACCTGGGGAGCACGGCC		
5179 IS	[TC]		TGCCCCTGAACATGTTCACTGAACTGCTGATCGAGTACTATGAAAAGATCTTCAGCACCC[TC]GGAGGCACCTGGGGA GCACGGCCTGGCACCATGGGAACAGGGGAGCAGGGCAGCCCCTTT		ARHGAP8
5672 I		S	GGCAGAGGCAAAAGCCTAAAGGCTAAGTACTCTCCT		
5672 P	T	S	CGCGCCGAGGACACAGCCAGCGGY		
5672 P	C	S	ATGACGTGGCAGACGCACAGCCAGCGY		
5672 T	T	S	CAGCCCGCTGGCTGTGTGGAGAGTACTTAGCCTTTAGGC*TTTTGCCTCTGCCCG*		
5672 T	C	S	CAGCCCGCTGGCTGTGCGGAGAGTACTTAGCCTTTAGGCTTTTGCCTCTGCCCG		
5672 IS	[TC]		GGGGTCCAGGCACCCACAGGGAGGCGCCATGAGGGCTGGCGGCCCAGCCCGCTGGCTGTG[TC]GGAGAGTACTTA GCCTTTAGGCTTTTGCCTCTGCCCGTCTGGCTGCCTGGAGCACCCTCC		
13175 I		S	GGGTAAGGGCTGGACTCAGGAGATACTCCTGAT		
13175 P	T	S	CGCGCCGAGGATGGGGCTCCCTGY		
13175 P	C	S	ATGACGTGGCAGACGTGGGGCTCCCTGY		
13175 T	T	S	AGGGCAGGGAGCCCCATTCAGGAGTATCTCCTGAGTCCAGCCCTTACCCCG		
13175 T	C	S	AGGGCAGGGAGCCCCACTCAGGAGTATCTCCTGAGTCCAGCCCTTACCCCG		
13175 IS	[TC]		ACTCCAGTTGGCCTGCACTGAGGAGCTCCGATGGCCAGGGCAGCAGGGCAGGGAGCCCCA[TC]TCAGGAGTATCTC CTGAGTCCAGCCCTTACCCCGGTGAGGGCATCCCGGGCACAGAGCAG		
13236 I		S	AGTCGGTGTACATGACATCTGACCTGGGAATGCT		
13236 P	C	S	ATGACGTGGCAGACGCAAGCAGTCGAGAGY		
13236 P	T	S	CGCGCCGAGGACAAGCAGTCGAGAGCY		
13236 T	C	S	CGAAGCTCTCGACTGCTTGCGCATTCCCAGGTCAGATGTCATGTACACCGACTGG		
13236 T	T	S	CGAAGCTCTCGAC*TGCTTGT*GCATTCCCAGGTCAGATGTCATGTACACCGACTGG		
13236 IS	[CT]		GACAAGCCAGAGACGACCAAGGAGCAACTGGGAGAGTTCTACGAAGCTCTCGACTGCTTG[CT]GCATTCCCAGGTCA GATGTCATGTACACCGACTGGAAAAAGGTAAACGCAAGGGATTGGA		
21147 I		A	ACAAG*ATGTTTGAGTGTT*GAAGAAGATGGAGGTTTAAGTGTTGAAATCAC		
21147 P	T	A	CGCGCCGAGGTGGACTAGTGCCATTAAGY		
21147 P	G	A	ATGACGTGGCAGACGGGACTAGTGCCATTAAGY		

FIGURE 129D

21147 T	T	A	GCTGCTTAATGGCACTAGTCCATGATTTCAACACTTAAACCTCCATCTTCTTCAACACTCAAACATCTTGTAA		
21147 T	G	A	GCTGCTTAATGGCACTAGTCCCTGATTTCAACACTTAAACCTCCATCTTCTTCAACACTCAAACATCTTGTAA		
21147 IS	[TG]		AGATACTCTTTACAAGATGTTTGAGTGTTGAAGAAGATGGAGGTTTAAGTGTTGAAATCA[TG]GGACTAGTGCCATTAA GCAGCTCTTTGATGAGGAGACAGAACACAAAGAATGAGTAGGAC		
21672 I		S	GTGAAATGGGCCTATTCATGGTGACTTCAGGCAT		
21672 P	C	S	ATGACGTGGCAGACGCTTGAAACTAAGACTTAGAACY		
21672 P	G	S	CGCGCCGAGGCCTTGAAACTAAGACTTAGAACCY		
21672 T	C	S	TGCTGGTTCTAAGTCTTAGTTTCAAGCTGCCTGAAGTCACCATGAATAGGCCCATTTCACAA		
21672 T	G	S	TGCTGGTTCTAAGTCTTAGTTTCAAGGTGCCTGAAGTCACCATGAATAGGCCCATTTCACAA		
21672 IS	[CG]		ACTAGTGACTGCGTCTCCAGGAGCTACTGGCGTTTGCTGGTTCTAAGTCTTAGTTTCAAG[CG]TGCCTGAAGTCACCA TGAATAGGCCCATTTCACAAGCAGATGCCCACGTGTATGTAGTTC		
21925 I		S	GCATTCCTCACCATGTTTTAAGAGCTGTAAACAACGTTGAACAT		
21925 P	T	S	CGCGCCGAGGATAACATTCCACAGGCCY		
21925 P	C	S	ATGACGTGGCAGACGTAACATTCCACAGGCCY		
21925 T	T	S	AAATGGCCTGTGGAATGTTATTGTTCAACGTTGTTTACAGCTCTTAAAACATGGTGAGGAATGCCT		
21925 T	C	S	AAATGGCCTGTGGAATGTTACTGTTCAACGTTGTTTACAGCTCTTAAAACATGGTGAGGAATGCCT		
21925 IS	[TC]		CTGCTGCTGGCATGTTGGTAGAGTCATCCCTGTAATCAAGAAATGGCCTGTGGAATGTTA[TC]TGTTCAACGTTGTTTA CAGCTCTTAAAACATGGTGAGGAATGCCTAAGTCTTAGTGACCA		TBL1
22463 I		S	CCCGGTCTGAGAAGGGCGCCTGC		
22463 P	T	S	CGCGCCGAGGAGGGTGGGGCAGAY		
22463 P	A	S	ATGACGTGGCAGACTGGGTGGGGCAGAY		
22463 T	T	S	GGCATCTGCCCCACCCTCAGGCGCCCTTCTCAGACCGGGCT		
22463 T	A	S	GGCATCTGCCCCACCCACAGGCGCCCTTCTCAGACCGGGCT		
22463 IS	[TA]		ACTGCTTTGGGGTGCAAATGCATGTGTGTGTGTCTGTCTGCGATGGCATCTGCCCCACCC[TA]CAGGCGCCCTTCTC AGACCGGGCTTTCACTCCACCCACCCCCGAGGACAGCAATTTCTTC		
23127 I		S	GAGGACTACGGCAAAGGTGTCATCTTCTACCTCAGT		
23127 P	C	S	ATGACGTGGCAGACGGACAAAGTGGTCGTGGY		
23127 P	T	S	CGCGCCGAGGAGACAAAGTGGTCGTGGY		
23127 T	C	S	ATCCCCACGACCACTTTGTCCCTGAGGTAGAAGATGACACCTTTGCCGTAGTCCTCCC		
23127 T	T	S	ATCCCCACGACCACTTTGTCTCTGAGGTAGAAGATGACACCTTTGCCGTAGTCCTCCC		
23127 IS	[CT]		CCTTGCTATTGGCATTCGGTTAAAGATGTTCCATAGCACAATCCCCACGACCACTTTGTC[CT]CTGAGGTAGAAGATGA CACCTTTGCCGTAGTCCTCCCCCTGGACGGGAGCCTGTGGAACT		PDCD8
24732 I		S	GTTGGAGTTGATATTCAGGCTCCGTCTTTATTTTCTCTGACTGATT		
24732 P	C	S	ATGACGTGGCAGACGGGGCTCATTGCTGY		
24732 P	T	S	CGCGCCGAGGAGGGCTCATTGCTGCY		
24732 T	C	S	AACAGCAGCAATGAGCCCCATCAGTCAGAGAAAATAAAGACGGAGCCTGAATATCAACTCCAACTC		
24732 T	T	S	AACAGCAGCAATGAGCCCTATCAGTCAGAGAAAATAAAGACGGAGCCTGAATATCAACTCCAACTC		
24732 IS	[CT]		TTACAGCCCACCATCAACTAATAGCTGGGACCTCAGTCTGAAAACAGCAGCAATGAGCCC[CT]ATCAGTCAGAGAAAA TAAAGACGGAGCCTGAATATCAACTCCAACTCCTGCAGAATTATT		
26561 I		S	CCCGGCTTCCGTCGGGCCCA		
26561 P	G	S	ATGACGTGGCAGACCGCGCCCGCGY		
26561 P	A	S	CGCGCCGAGGTGCGCCCGCGY		
26561 T	G	A	GCTTCCGTCGGGCCCCGCGCCCGCGCTGCATGCTGG		
26561 T	A	A	GCTTCCGTCGGGCCCTGCGCCCGCGCTGCATGCTGG		
26561 IS	[GA]		CCTGTGGGTCGGCCTCACCCCGGCCTCCGACCTGAAGATCCCAGCATGCAGCGCGGGCGC[GA]GGGCCCGACGGA AGCCGGGAGCCGGCCGGAAGCAGTTCCTGCGCTCTGGCTTCTGGGTCC		
26590 I		A	GGGGGATTGAGATTTTTTTCCCATATCATTCTTTAAAAATTGCAT		
26590 P	A	A	CGCGCCGAGGATGTGAGTGTGAGCACTY		
26590 P	G	A	ATGACGTGGCAGACGTGTGAGTGTGAGCACY		
26590 T	A	A	ACAGAGTGCTCACACTCACATTGCAATTTTTAAAGAATGATATGGGAAAAAAATCTCAATCCCCCTT		
26590 T	G	A	ACAGAGTGCTCACACTCACACTGCAATTTTTAAAGAATGATATGGGAAAAAAATCTCAATCCCCCTT		
26590 IS	[AG]		ATGATCGAATACATAAGGGGGATTGAGATTTTTTTCCCATATCATTCTTTAAAAATTGCA[AG]TGTGAGTGTGAGCACT CTGTAAGCTTATCTCGTTTATCATTGCCAGCTTGCATTCACAAG		
36398 I		S	CTCCAGCATGGGTCCCTGCCAGAAAGAA		
36398 P	A	S	CGCGCCGAGGTGGGCTGCCTCTGY		
36398 P	G	S	ATGACGTGGCAGACCGGGCTGCCTCTGY		
36398 T	A	S	TCCCCAGAGGCAGCCCATCTTTCTGGCAGGGACCCATGCTGGAGAT		
36398 T	G	S	TCCCCAGAGGCAGCCCGTCTTTCTGGCAGGGACCCATGCTGGAGAT		
36398 IS	[AG]		ACCTATCTCTCTCCCCATTCTGGCATACAAGGCAGCAGTCAGGGTCCCCAGAGGCAGCCC[AG]TCTTTCTGGCAGGG ACCCATGCTGGAGATCTGGCCAGCTGAAAGGCCCCAAAGGAGCTCG		
36857 I		A	GAGAGGCCTTCCCTAAAAACCCTTGGGTCAA		
36857 P	C	A	ATGACGTGGCAGACCGCTGAGCCTCTGTY		
36857 P	T	A	CGCGCCGAGGTGCTGAGCCTCTGTCY		
36857 T	C	A	CCAAGACAGAGGCTCAGCGTGACCCAAGGGTTTTTAGGGAAGGCCTCTCCT		
36857 T	T	A	CCAAGACAGAGGCTCAGCATGACCCAAGGGTTTTTAGGGAAGGCCTCTCCT		
36857 IS	[CT]		CTGTAGCTCCTAGAGCATCCAGGGGCAGAGGAGAGGCCTTCCCTAAAAACCCTTGGGTCA[CT]GCTGAGCCTCTGTC TTGGCTGCATGGTGCAGTTGCTTGCAAAATTAATACTGTATCTCAT		
40403 I		A	GCATCCGCCTTTACTTTAAAGTATCCAAGGACATTCCTATTTGGTAGT		
40403 P	A	A	CGCGCCGAGGAAACACATCCAGAGACTCY		
40403 P	G	A	ATGACGTGGCAGACGAACACATCCAGAGACTCY		
40403 T	A	A	CTTGGAGTCTCTGGATGTGTTTCTACCAAATAGGAATGTCCTTGGATACTTTAAAGTAAAGGCGGATGCCT		
40403 T	G	A	CTTGGAGTCTCTGGATGTGTTCCTACCAAATAGGAATGTCCTTGGATACTTTAAAGTAAAGGCGGATGCCT		
40403 IS	[AG]		CCCACAAGGAGAGGCATCCGCCTTTACTTTAAAGTATCCAAGGACATTCCTATTTGGTAG[AG]AACACATCCAGAGACT CCAAGCTCAAATCCTCCAGGATAATCTTGGCCTTACACATGGAT		
40520 I		A	CGAGGACTGCTGAATTCCTCAGTTTTGCTTTCATCCATTTTA		
40520 P	C	A	ATGACGTGGCAGACCCCCACACAAACCATGY		
40520 P	T	A	CGCGCCGAGGTCCCACACAAACCATGY		
40520 T	C	A	AGGCCATGGTTTGTGTGGGGAAAATGGATGAAAGCAAAACTGAGGAATTCAGCAGTCCTCGAG		
40520 T	T	A	AGGCCATGGTTTGTGTGGGGAAAATGGATGAAAGCAAAACTGAGGAATTCAGCAGTCCTCGAG		
40520 IS	[CT]		AAGGTGTGAGTCGAGGCCTCGAGGACTGCTGAATTCCTCAGTTTTGCTTTCATCCATTTT[CT]CCCACACAAACCATG GCCTTTCCCTGCTTGCTATGGCTGAGTCATAGGTGGAGCTACTTG		
41696 I		S	GTCTTTTTTTTTCTGGAGTCATTTCTTTCAGTCTCTAAGTATTGTAGAAAT		
41696 P	G	S	CGCGCCGAGGCTGGCATAGATGGAGGAY		
41696 P	C	S	ATGACGTGGCAGACGTGGCATAGATGGAGGAY		
41696 T	G	S	TTTTTCCTCCATCTATGCCAGTTTCTACAATACTTAGAGACTGAAAGAAATGACTCCAGAAAAAAAAAAAGACCA		
41696 T	C	S	TTTTTCCTCCATCTATGCCACTTTCTACAATACTTAGAGACTGAAAGAAATGACTCCAGAAAAAAAAAAAGACCA		
41696 IS	[GC]		CCAGTGTTTGGAAACCATCTTGGTTTTCTTTCACTTTCGATTTTTCCTCCATCTATGCCA[GC]TTTCTACAATACTTAGA GACTGAAAGAAATGACTCCAGAAAAAAAAAAAGACCAAGATTTG		
41793 I		A	GTGCCTTTTTCTCCTGATTCAGCTGTCACCATTCAAGC		
41793 P	T	A	CGCGCCGAGGTGAAATAGGGTGAATCAGAAAY		
41793 P	G	A	ATGACGTGGCAGACGGAAATAGGGTGAATCAGAAAY		

FIGURE 129D

41793	T	T	A	ACCCTTTCTGATTCACCCTATTTCACTTGAATGGTGACAGCTGAATCAGGAGAAAAAGGCACTC	
41793	T	G	A	ACCCTTTCTGATTCACCCTATTTCCCTTGAATGGTGACAGCTGAATCAGGAGAAAAAGGCACTC	
41793	IS	[TG]		AGGGTATTTTAATTCTCAAGAGAGTGCCTTTTTCTCCTGATTCAGCTGTCACCATTCAAG[TG]GAAATAGGGTGAATCA GAAAGGGTGAAGTGAACCTGTCTGAAGTTAGTGTCCAGCATCTT	
42123	I		S	GTGGCAGATACAAGGGGCTCCTGAGAGGA	
42123	P	G	S	ATGACGTGGCAGACCAGTGGGTAGGATGGTY	
42123	P	A	S	CGCGCCGAGGTAGTGGGTAGGATGGTCY	
42123	T	G	S	GTGTGACCATCCTACCCACTGCCTCTCAGGAGCCCCTTGTATCTGCCACGA	
42123	T	A	S	*GTGTG*ACCATCCTACCCACTACCTCTCAGGAGCCCCTTGTATCTGCCACGA	
42123	IS	[GA]		ATGATGAGGAAATGGGGCCTCCAGGAGGGCAATGGGCAGAGTGTGACCATCCTACCCACT[GA]CCTCTCAGGAGCCC *CTTGTATCTGCCACGAGTGGCCTGCCTCACTGCAAGCTGTGGCACA*	
42881	I		A	GGGCAGCGTCGGGGATGTCCCA	
42881	P	C	A	ATGACGTGGCAGACC*TTCACGGTGAGCGY*	
42881	P	T	A	CGCGCCGAGGTTTCACGGTGAGCGGY	
42881	T	C	A	GCCGCCGCTCACCGTGAAGGGGACATCCCCGACGCTGCCCAC	
42881	T	T	A	GCCGCCGCTCACCGTGAAAGGGACATCCCCGACGCTGCCCAC	
42881	IS	[CT]		CACCGGGGCTGTCAACCCTGGAGACAACTGCTACT*CCGTGGG*CAGCGTCGGGGATGTCCC[CT]TTCACGGTGAGCG GCGGCCGGGAGCCCTAGGGGAAGATACCAGGGGCCAGACGCGGGGC	
43241	I		S	GATGTCACAGTAGTAAATCCTCTCTGTACTGTCCCCACTAGAC	
43241	P	C	S	ATGACGTGGCAGACGAAATACTGGCAGCCATTY	
43241	P	A	S	CGCGCCGAGGTAAATACTGGCAGCCATTCY	
43241	T	C	S	AAGAGAATGGCTGCCAGTATTTCTCTAGTGGGGACAGTACAGAGAGGA*TTTACTACTGT*GACATCTG	
43241	T	A	S	AAGAGAATGGCTGCCAGTATTTATCTAGTGGGGACAGTACAGAGAGGA*TTTACTACTGTGACATCTG*	
43241	IS	[CA]		ACTCCAAAGAGAGGTAAATTTCCTAGGCAATTTCTAGGAAGAGAATGGCTGCCAGTATTT[CA]TCTAGTGGGGACAGT ACAGAGAGGATTTACTACTGTGACATCTGCCCCTGGGCTGGTCAT	
43404	I		S	GCGAATGCAGCGGCTTCTTTATTTTTTCCCAAGATCCA	
43404	P	A	S	CGCGCCGAGGTGCAACAGGAGCTCCY	
43404	P	G	S	ATGACGTGGCAGACCGCAACAGGAGCTCY	
43404	T	A	S	TGTGGGAGCTCCTGTTGCAGGATCTTGGGAAAAAATAAAGAAGCCGCTGCATTCGCAC	
43404	T	G	S	TGTGGGAGCTCCTGTTGCGGGATCTTGGGAAAAAATAAAGAAGCCGCTGCATTCGCAC	
43404	IS	[AG]		TAGAGTCTCTTACACCCTTGTTGGAGGGATTCTTATTCTGACTGTGGGAGCTCCTGTTGC[AG]GGATCTTGGGAAAAA ATAAAGAAGCCGCTGCATTCGCACGTCAAGAAGGTGCTTTGCCTC	
43405	I		S	CTTTTTGTGTGCCTATTTATGCCATAGATCTGGCAAA	
43405	P	A	S	CGCGCCGAGGTTGTCAGAAGTATACAAAGATTACY	
43405	P	G	S	ATGACGTGGCAGACCTGTCAGAAGTATACAAAGATTACY	
43405	T	A	S	GCAGGTAATCTTTGTATACTTCTGACAATTGCCAGATCTATGGCATAAATAGGCACACAAAAAGGT	
43405	T	G	S	GCAGGTAATCTTTGTATACTTCTGACAGTTGCCAGATCTATGGCATAAATAGGCACACAAAAAGGT	
43405	IS	[AG]		AAAGAAGAAAATCTTCATGTCTTCAAAAATTAGGCAGGTAATCTTTGTATACTTCTGACA[AG]TTGCCAGATCTATGGCA TAAATAGGCACACAAAAAGGTACTTAAACAGTTATAGTCACCA	LOC51029
43428	I		S	GCTGCCCTGACGACGGGAAGGAGGT	
43428	P	C	S	ATGACGTGGCAGACGGCCCTCTCTGTGTTY	
43428	P	G	S	CGCGCCGAGGCGCCCTCTCTGTGTTY	
43428	T	C	S	TCAAAACACAGAGAGGGCCCCTCCTTCCCGTCGTCAGGGCAGCCA	
43428	T	G	S	TCAAAACACAGAGAGGGCGCCTCCTTCCCGTCGTCAGGGCAGCCA	
43428	IS	[CG]		ATGTTTTATTTTAAAGCAGAAAACAGGTCATGTGGGCTACACTCAAAACACAGAGAGGGC[CG]CCTCCTTCCCGTCGT CAGGGCAGCCACACCCTCTCCCCTCCAGGCACCAGGCTCTTCCTG	
43445	I		A	GAAGGTCAAGGAGGGGGAGGGTGAAGCT	
43445	P	A	A	CGCGCCGAGGACTG*TGGTGTC*CAGACY	
43445	P	G	A	ATGACGTGGCAGACGCTGTGGTGTCCAGAY	
43445	T	A	A	GGAAGTCTGGACACCACAGTGCTTCACCCTCCCCCTCCTTGACCTTCCA	
43445	T	G	A	GGAAGTCTGGACACCACAGCGCTTCACCCTCCCCCTCCTTGACCTTCCA	
43445	IS	[AG]		GGCAGCACACTGGCCAGGAGGAGGTTAAGTCTGGAAGGTCAAGGAGGGGGAGGGTGAAGC[AG]CTGTGGTGTCCA GACTTCCCCCAGAGCCTGGTAAAAGCCCAGGGTGTGGGCATCCCCAGA	
43538	I		S	TCCCCCCGGACTGAAGCAGGGTTC	
43538	P	C	S	ATGACGTGGCAGACGCCCCGGCGACY	
43538	P	A	S	CGCGCCGAGGTCCCCGGCGACAY	
43538	T	C	S	GTCATGTCGCCGGGGCAACCCTGCTTCAGTCCGGGGGGAAA	
43538	T	A	S	GTCATGTCGCCGGGGAAACCCTGCTTCAGTCCGGGGGGAAA	
43538	IS	[CA]		CACGAAGCCCCGCCCTCTTCACATGGAGTGACAGAGCTGCGAAAGGTCATGTCGCCGGGG[CA]AACCCTGCTTCAGT CCGGGGGGAAACCAGTCCCAGCGAGGGGCAGTTGAGTAGAAGCCGA	
43913	I		S	AGTTGGAGGGGAAGAGTCTTTTAGAACATGAAAAATGGAAAAGACAAATT	
43913	P	T	S	CGCGCCGAGGAAAGGCTCCTTAGTGGGY	
43913	P	G	S	ATGACGTGGCAGACCAAGGCTCCTTAGTGGGY	
43913	T	T	S	TTGACCCACTAAGGAGCCTTTATTTGTCTTTTCCATTTTTCATGTTCTAAAAGACTCTTCCCCTCCAACTAA	
43913	T	G	S	TTGACCCACTAAGGAGCCTTGATTTGTCTTTTCCATTTTTCATGTTCTAAAAGACTCTTCCCCTCCAACTAA	
43913	IS	[TG]		TCTTTGTTGTCCACATTTTCTTATCATATGAACCCAAACTTTGACCCACTAAGGAGCCTT[TG]ATTTGTCTTTTCCATTT TTCATGTTCTAAAAGACTCTTCCCCTCCAACTAAATTAACGTG	
44329	I		S	AGAGGAAGATAGATGGCATTGCCACATCATAGTCATTACCATT	
44329	P	C	S	ATGACGTGGCAGACGAAACAGCCAAACTATATACAAGY	
44329	P	G	S	CGCGCCGAGGCAAACAGCCAAACTATATACAAGY	
44329	T	C	S	GTCTCTTGTATATAGTTTGGCTGTTTCATGGTAATGACTATGATGTGGCAATGCCATCTATCTTCCTCTGA	
44329	T	G	S	GTCTCTTGTATATAGTTTGGCTGTTTGATGGTAATGACTATGATGTGGCAATGCCATCTATCTTCCTCTGA	
44329	IS	[CG]		CACAGAAGAGGAGCTGCGTGTCTGCTGCTCTCTGGTCTCTTGTATATAGTTTGGCTGTTT[CG]ATGGTAATGACTATG ATGTGGCAATGCCATCTATCTTCCTCTGAGTGCCGCTGCTACCGC	
44653	I		A	TGAGTCTAGCTTGTTCTGTAAGAAGAGTTTATAAAAAATGATGAGTAAGACC	
44653	P	T	A	CGCGCCGAGGTGGACTTTGAGCTCTGTY	
44653	P	A	A	ATGACGTGGCAGACAGGACTTTGAGCTCTGTY	
44653	T	T	A	ACCGACAGAGCTCAAAGTCCAGTCTTACTCATCATTTTTATAAACTCTTCTTACAGAACAAGCTAGACTCATT	
44653	T	A	A	ACCGACAGAGCTCAAAGTCCTGTCTTACTCATCATTTTTATAAACTCTTCTTACAGAACAAGCTAGACTCATT	
44653	IS	[TA]		TGCCATTAAATGAGTCTAGCTTGTTCTGTAAGAAGAGTTTATAAAAATGATGAGTAAGAC[TA]GGACTTTGAGCTCTGT *CGGT*CACAGCACCCCACCTATTCCAATTTCGTGGTCTACTATTG	
44694	I		S	GCCTCATCAAGAAGCTGGGCGAGCAA	
44694	P	G	S	ATGACGTGGCAGACCGCTTACCCTTTCACCY	
44694	P	A	S	CGCGCCGAGGTGCTTACCCTTTCACCTY	
44694	T	G	S	TCAAAGGTGAAAGGGTAAGCGTGCTCGCCCAGCTTCTTGATGAGGCGT	
44694	T	A	S	TCAAAGGTGAAAGGGTAAGCATGCTCGCCCAGCTTCTTGATGAGGCGT	
44694	IS	[GA]		CATTTCTGGAATGGGGCCCCAGGGATGGCAGTTCCTGACCTCAAAGGTGAAAGGGTAAGC[GA]TGCTCGCCCAGCTT CTTGATGAGGCGTTCCTGCAGCCGCGTCAGGGGCTTCTTGTCCTCG	
44739	I		A	CCCGGATGCCCCAGCTCAGCCA	
44739	P	C	A	ATGACGTGGCAGACCTCCTGCCAGCAGGY	
44739	P	T	A	CGCGCCGAGGTTCCTGCCAGCAGGY	

FIGURE 129D

44739	T	C	A	TCCCCCTGCTGGCAGGAGGGCTGAGCTGGGGCATCCGGGTT	
44739	T	T	A	TCCCCCTGCTGGCAGGAAGGCTGAGCTGGGGCATCCGGGTT	
44739	IS	[CT]		GGCTTGATTTTTCCAGTTGAGCCCCATCTGCTGTGGGAACCCGGATGCCCCAGCTCAGCC[CT]TCCTGCCAGCAGGG GGAGGGAGCGTCGGCTGCGGAGGGAGCTGGGATGCATGCGTGTGGG	
44814	I		A	GCTGTAAACATGAAAGTGAGAAGCAGCAAAGAACGATCAACAAATTT	
44814	P	A	A	CGCGCCGAGGAACACCCTTTTCATATTTTTTGTY	
44814	P	G	A	ATGACGTGGCAGACGACACCCTTTTCATATTTTTTGTY	
44814	T	A	A	TGTCACAAAAAATATGAAAAGGGTGTTAATTTGTTGATCGTTCTTTGCTGCTTCTCACTTTCATGTTTACAGCAA	
44814	T	G	A	TGTCACAAAAAATATGAAAAGGGTGTCAATTTGTTGATCGTTCTTTGCTGCTTCTCACTTTCATGTTTACAGCAA	
44814	IS	[AG]		TTGCTCTTCTCCTTGCTGTAAACATGAAAGTGAGAAGCAGCAAAGAACGATCAACAAATT[AG]ACACCCTTTTCATATTT TTTGTGACAGCTACCTGGAACGGGCAGGAAAGAAAAATGCAGA	
45838	I		S	AGACTCAATCTCATCTGTGTTCTCGGCCCTGTTATGAT	
45838	P	G	S	CGCGCCGAGGCACTCTTTGTACCACCCY	
45838	P	C	S	ATGACGTGGCAGACGACTCTTTGTACCACCCAY	
45838	T	G	S	CCCATGGGTGGTACAAAGAGTGTCATAACAGGGCCGAGAACACAGATGAGATTGAGTCTTG	
45838	T	C	S	CCCATGGGTGGTACAAAGAGTCTCATAACAGGGCCGAGAACACAGATGAGATTGAGTCTTG	
45838	IS	[GC]		ATCACAGAGGATTATGACACCCATGCGTATTGAATAAATCCCATGGGTGGTACAAAGAGT[GC]TCATAACAGGGCCGA GAACACAGATGAGATTGAGTCTTGTATGAACACACAGCCAAAAGT	
46213	I		S	GCTGGCTGAGTATGTATGCTGACCTGTGGATGTAGC	
46213	P	A	S	CGCGCCGAGGTCATATGGTGCATCTCTTGY	
46213	P	T	S	ATGACGTGGCAGACACATATGGTGCATCTCTTGY	
46213	T	A	S	CCTTCAAGAGATGCACCATATGACTACATCCACAGGTCAGCATACATACTCAGCCAGCAT	
46213	T	T	S	CCTTCAAGAGATGCACCATATGTCTACATCCACAGGTCAGCATACATACTCAGCCAGCAT	
46213	IS	[AT]		AATCACCTCAGGGCATACTACAATCAACCAAACATCAGCCTTCAAGAGATGCACCATATG[AT]CTACATCCACAGGTCA GCATACATACTCAGCCAGCATAAACCCGGCGGGGACTTCTACCA	
46235	I		A	AGGAGTCACGTGAACACACAACTCTCCTATATTCCTCACT	
46235	P	G	A	ATGACGTGGCAGACGAACCTCAGGATTGAGCY	
46235	P	A	A	CGCGCCGAGGAAACCTCAGGATTGAGCAY	
46235	T	G	A	ACCTTGCTCAATCCTGAGGTTCGTGAGGAATATAGGAGAGTTGTGTGTTCACGTGACTCCTGA	
46235	T	A	A	ACCTTGCTCAATCCTGAGGTTTGTGAGGAATATAGGAGAGTTGTGTGTTCACGTGACTCCTGA	
46235	IS	[GA]		ATAGTACTGCTCTTTGTTTTCAGGAGTCACGTGAACACACAACTCTCCTATATTCCTCAC[GA]AACCTCAGGATTGAGC AAGGTCTTTGTAATTTTTTTGGTTCACTTTATTGACCTGGGAGC	FLJ21415
46414	I		A	GCGCTCTATTCTTCTTCACCTCTCAGGAACTGACTTTTATTTTTTCTT	
46414	P	A	A	CGCGCCGAGGATCAACACCCAGTAATCTCY	
46414	P	G	A	ATGACGTGGCAGACGTCAACACCCAGTAATCTCY	
46414	T	A	A	TAGGGAGATTACTGGGTGTTGATAGAAAAAATAAAAGTCAGTTCCTGAGAGGTGAAGAAGAATAGAGCGCCT	
46414	T	G	A	TAGGGAGATTACTGGGTGTTGACAGAAAAAATAAAAGTCAGTTCCTGAGAGGTGAAGAAGAATAGAGCGCCT	
46414	IS	[AG]		TGACTGCATTGAGGCGCTCTATTCTTCTTCACCTCTCAGGAACTGACTTTTATTTTTTCT[AG]TCAACACCCAGTAATCT CCCTAACTAGTTTTAACCCTTATTCCTCCCTCATACCTAGCCA	MYPT2
46428	I		A	CCAGAGTGGAGTCTCAGCCCCACCCT	
46428	P	G	A	ATGACGTGGCAGACGTCCATCCCCGCCY	
46428	P	A	A	CGCGCCGAGGATCCATCCCCGCCY	
46428	T	G	A	GGGTGGCGGGGATGGACGGGTGGGGCTGAGACTCCACTCTGGCC	
46428	T	A	A	GGGTGGCGGGGATGGATGGGTGGGGCTGAGACTCCACTCTGGCC	
46428	IS	[GA]		CAAGCAGCCAATGGCAGGAGCGTCAGGCCAGGTGGCCAGAGTGGAGTCTCAGCCCCACCC[GA]TCCATCCCCGCCA CCCCTGGGCTTCCGCGATGAGCATGGGGTGGCCCTCCTGGCCTACAC	ART1
46617	I		A	CCAGAAACAAATGGAGGAATATCCTGAGAGCTCCCAAA	
46617	P	T	A	CGCGCCGAGGTTCAGGCAAGAAGAGATCAY	
46617	P	C	A	ATGACGTGGCAGACCTCAGGCAAGAAGAGATCY	
46617	T	T	A	GGATTGATCTCTTCTTGCCTGAATTGGGAGCTCTCAGGATATTCCTCCATTTGTTTCTGGAG	
46617	T	C	A	GGATTGATCTCTTCTTGCCTGAGTTGGGAGCTCTCAGGATATTCCTCCATTTGTTTCTGGAG	
46617	IS	[TC]		CCCAGTCATTTTCCCCAAGGCCTCCAGAAACAAATGGAGGAATATCCTGAGAGCTCCCAA[TC]TCAGGCAAGAAGAGA TCAATCCAGCCCGTCCTCCACATGAGCACAAGGCAGAGCTCGTTC	
46693	I		S	CCTTTTTAGTGAAAGTTGGAGCGATGATAAACAGCTA	
46693	P	G	S	ATGACGTGGCAGACCCAGCTGTAAAAATGAAAGGY	
46693	P	A	S	CGCGCCGAGGTCAGCTGTAAAAATGAAAGGY	
46693	T	G	S	TCCGCCTTTCATTTTTACAGCTGGAGCTGTTTATCATCGCTCCAACTTTCACTAAAAAGGAA	
46693	T	A	S	TCCGCCTTTCATTTTTACAGCTGAAGCTGTTTATCATCGCTCCAACTTTCACTAAAAAGGAA	
46693	IS	[GA]		CTCAGCATTTTTCTGTAATAATCACCTCAGCTTCACCTCCGCCTTTCATTTTTACAGCTG[GA]AGCTGTTTATCATCGCT CCAACTTTCACTAAAAAGGAAAAACTATCACTTAAACAAAGCC	
49263	I		S	TGCGCCGCACCAAGGAGGAGATCAAA	
49263	P	G	S	ATGACGTGGCAGACCGAGCTGAACCGCAY	
49263	P	A	S	CGCGCCGAGGTGAGCTGAACCGCAY	
49263	T	G	S	ATCATGCGGTTCAGCTCGTTGATCTCCTCCTTGGTGCGGCGCAGG	
49263	T	A	S	ATCATGCGGTTCAGCTCATTGATCTCCTCCTTGGTGCGGCGCAGG	
49263	IS	[GA]		TACCTGGCACTTGGCATTCTCCACCTCGGCTGTCAGCCTCTGGATCATGCGGTTCAGCTC[GA]TTGATCTCCTCCTTG GTGCGGCGCAGGGTCTCCCCGTGCCTGATCACTGTGGCCTTCATC	
49277	I		S	GGTCAACTGGCTGCCTCTGCCTCCTCA	
49277	P	G	S	ATGACGTGGCAGACCGCAGCAGGCCTY	
49277	P	A	S	CGCGCCGAGGTGCAGCAGGCCTCY	
49277	T	G	S	GGCTGAGGCCTGCTGCGGAGGAGGCAGAGGCAGCCAGTTGACCCT	
49277	T	A	S	GGCTGAGGCCTGCTGCAGAGGAGGCAGAGGCAGCCAGTTGACCCT	
49277	IS	[GA]		GGCAGCAGCCCAGATCACATCTGAATCAGAGACAGGGAAGAACAGGCTGAGGCCTGCTGC[GA]GAGGAGGCAGAGG CAGCCAGTTGACCCTGGTGCAGCCCCCACCCTACCAGTGCCCACACC	
49427	I		S	GACAGGAGTCCCTGCTGTCCAGGGAAA	
49427	P	A	S	CGCGCCGAGGTAGCATACTAGGAAAGGGCY	
49427	P	G	S	ATGACGTGGCAGACCAGCATACTAGGAAAGGGY	
49427	T	A	S	AAGTGCCCTTTCCTAGTATGCTATTCCCTGGACAGCAGGGACTCCTGTCCA	
49427	T	G	S	AAGTGCCCTTTCCTAGTATGCTGTTCCCTGGACAGCAGGGACTCCTGTCCA	
49427	IS	[AG]		CAGTGAGCCTCTTGGCCCCACACTGCTTCTGCCCCTGGAAGTGCCCTTTCCTAGTATGCT[AG]TTCCCTGGACAGCA GGGACTCCTGTCCAAAAGGAGGAGGGGACGGGAAAAGCCAGCTTAT	
49431	I		S	AGTGACCAGAAGGGGCAGGGAGCAGA	
49431	P	A	S	CGCGCCGAGGTGGACAGTCCACCCY	
49431	P	G	S	ATGACGTGGCAGACCGGACAGTCCACCCY	
49431	T	A	S	ACCGGGGTGGACTGTCCACTGCTCCCTGCCCCTTCTGGTCACTTC	
49431	T	G	S	ACCGGGGTGGACTGTCCGCTGCTCCCTGCCCCTTCTGGTCACTTC	
49431	IS	[AG]		CCGGGGGCGAGGTACAGTGACAGGGTTCCCCAGCATGTGAGGAACCGGGGTGGACTGTCC[AG]CTGCTCCCTGCCC CTTCTGGTCACTTCTTCCTCCCCACTCCCCAACACAGGGTGTCCATG	
49437	I		A	GAGAAAAAAGAAGTCTGACATAGACCATTACAGATCCACATT	
49437	P	A	A	CGCGCCGAGGACAATAAATCAGCCCATTACAY	
49437	P	G	A	ATGACGTGGCAGACGCAATAAATCAGCCCATTACY	
49437	T	A	A	CTTGTGTAATGGGCTGATTTATTGTATGTGGATCTGTAATGGTCTATGTCAGACTTCTTTTTTCTCTT	
49437	T	G	A	CTTGTGTAATGGGCTGATTTATTGCATGTGGATCTGTAATGGTCTATGTCAGACTTCTTTTTTCTCTT	

FIGURE 129D

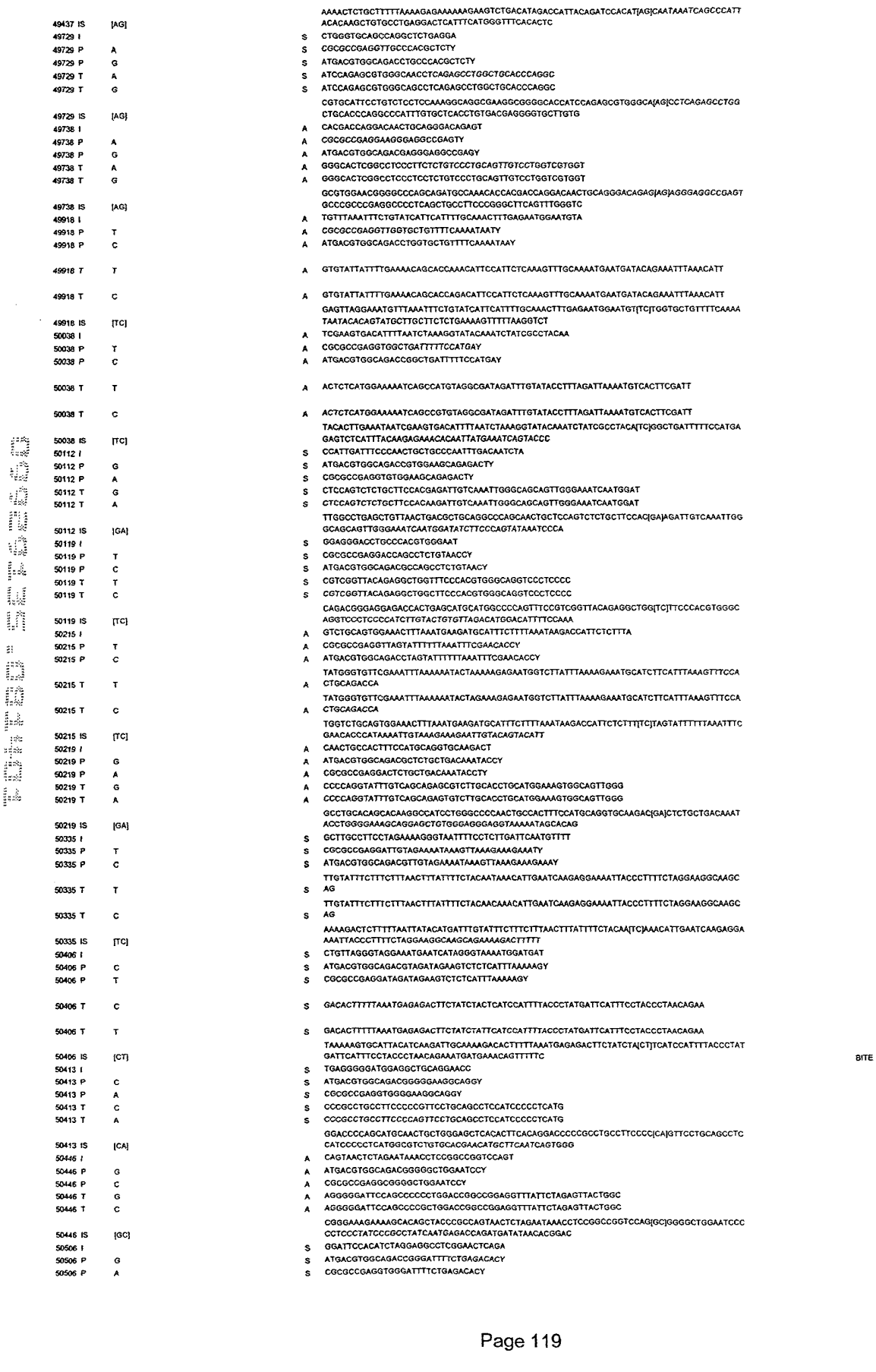

AAAACTCTGCTTTTTAAAAGAGAAAAAAGAAGTCTGACATAGACCATTACAGATCCACAT[AG]CAATAAATCAGCCCATT
49437 IS [AG] ACACAAGCTGTGCCTGAGGACTCATTTCATGGGTTTCACACTC
49729 I S CTGGGTGCAGCCAGGCTCTGAGGA
49729 P A S CGCGCCGAGGTTGCCCACGCTCTY
49729 P G S ATGACGTGGCAGACCTGCCCACGCTCTY
49729 T A S ATCCAGAGCGTGGGCAACCTCAGAGCCTGGCTGCACCCAGGC
49729 T G S ATCCAGAGCGTGGGCAGCCTCAGAGCCTGGCTGCACCCAGGC
CGTGCATTCCTGTCTCCTCCAAAGGCAGGCGAAGGCGGGGCACCATCCAGAGCGTGGGCA[AG]CCTCAGAGCCTGG
49729 IS [AG] CTGCACCCAGGCCCATTTGTGCTCACCTGTGACGAGGGGTGCTTGTG
49738 I A CACGACCAGGACAACTGCAGGGACAGAGT
49738 P A A CGCGCCGAGGAAGGGAGGCCGAGTY
49738 P G A ATGACGTGGCAGACGAGGGAGGCCGAGY
49738 T A A GGGCACTCGGCCTCCCTTCTCTGTCCCTGCAGTTGTCCTGGTCGTGGT
49738 T G A GGGCACTCGGCCTCCCTCCTCTGTCCCTGCAGTTGTCCTGGTCGTGGT
GCGTGGAACGGGGCCCAGCAGATGCCAAACACCACGACCAGGACAACTGCAGGGACAGAG[AG]AGGGAGGCCGAGT
49738 IS [AG] GCCCGCCCGAGGCCCCTCAGCTGCCTTCCCGGGCTTCAGTTTGGGTC
49918 I A TGTTTAAATTTCTGTATCATTCATTTTGCAAACTTTGAGAATGGAATGTA
49918 P T A CGCGCCGAGGTTGGTGCTGTTTTCAAAATAATY
49918 P C A ATGACGTGGCAGACCTGGTGCTGTTTTCAAAATAAY
49918 T T A GTGTATTATTTTGAAAACAGCACCAAACATTCCATTCTCAAAGTTTGCAAAATGAATGATACAGAAATTTAAACATT
49918 T C A GTGTATTATTTTGAAAACAGCACCAGACATTCCATTCTCAAAGTTTGCAAAATGAATGATACAGAAATTTAAACATT
GAGTTAGGAAATGTTTAAATTTCTGTATCATTCATTTTGCAAACTTTGAGAATGGAATGT[TC]TGGTGCTGTTTTCAAAA
49918 IS [TC] TAATACACAGTATGCTTGCTTCTCTGAAAAGTTTTTAAGGTCT
50038 I A TCGAAGTGACATTTTAATCTAAAGGTATACAAATCTATCGCCTACAA
50038 P T A CGCGCCGAGGTGGCTGATTTTTCCATGAY
50038 P C A ATGACGTGGCAGACCGGCTGATTTTTCCATGAY
50038 T T A ACTCTCATGGAAAAATCAGCCATGTAGGCGATAGATTTGTATACCTTTAGATTAAAATGTCACTTCGATT
50038 T C A ACTCTCATGGAAAAATCAGCCGTGTAGGCGATAGATTTGTATACCTTTAGATTAAAATGTCACTTCGATT
TACACTTGAAATAATCGAAGTGACATTTTAATCTAAAGGTATACAAATCTATCGCCTACA[TC]GGCTGATTTTTCCATGA
50038 IS [TC] GAGTCTCATTTACAAGAGAAACACAATTATGAAATCAGTACCC
50112 I S CCATTGATTTCCCAACTGCTGCCCAATTTGACAATCTA
50112 P G S ATGACGTGGCAGACCGTGGAAGCAGAGACTY
50112 P A S CGCGCCGAGGTGTGGAAGCAGAGACTY
50112 T G S CTCCAGTCTCTGCTTCCACGAGATTGTCAAATTGGGCAGCAGTTGGGAAATCAATGGAT
50112 T A S CTCCAGTCTCTGCTTCCACAAGATTGTCAAATTGGGCAGCAGTTGGGAAATCAATGGAT
TTGGCCTGAGCTGTTAACTGACGCTGCAGGCCCAGCAACTGCTCCAGTCTCTGCTTCCAC[GA]AGATTGTCAAATTGG
50112 IS [GA] GCAGCAGTTGGGAAATCAATGGATATCTTCCCAGTATAAATCCCA
50119 I S GGAGGGACCTGCCCACGTGGGAAT
50119 P T S CGCGCCGAGGACCAGCCTCTGTAACCY
50119 P C S ATGACGTGGCAGACGCCAGCCTCTGTAACY
50119 T T S CGTCGGTTACAGAGGCTGGTTTCCCACGTGGGCAGGTCCCTCCCC
50119 T C S CGTCGGTTACAGAGGCTGGCTTCCCACGTGGGCAGGTCCCTCCCC
CAGACGGGAGGAGACCACTGAGCATGCATGGCCCCAGTTTCCGTCGGTTACAGAGGCTGG[TC]TTCCCACGTGGGC
50119 IS [TC] AGGTCCCTCCCCATCTTGTACTGTGTTAGACATGGACATTTTCCAAA
50215 I A GTCTGCAGTGGAAACTTTAAATGAAGATGCATTTCTTTTAAATAAGACCATTCTCTTTA
50215 P T A CGCGCCGAGGTTAGTATTTTTTAAATTTCGAACACCY
50215 P C A ATGACGTGGCAGACCTAGTATTTTTTAAATTTCGAACACCY
TATGGGTGTTCGAAATTTAAAAAATACTAAAAAGAGAATGGTCTTATTTAAAAGAAATGCATCTTCATTTAAAGTTTCCA
50215 T T A CTGCAGACCA
TATGGGTGTTCGAAATTTAAAAAATACTAGAAAGAGAATGGTCTTATTTAAAAGAAATGCATCTTCATTTAAAGTTTCCA
50215 T C A CTGCAGACCA
TGGTCTGCAGTGGAAACTTTAAATGAAGATGCATTTCTTTTAAATAAGACCATTCTCTTT[TC]TAGTATTTTTTAAATTTC
50215 IS [TC] GAACACCCATAAAATTGTAAAGAAAGAATTGTACAGTACATT
50219 I A CAACTGCCACTTTCCATGCAGGTGCAAGACT
50219 P G A ATGACGTGGCAGACGCTCTGCTGACAAATACCY
50219 P A A CGCGCCGAGGACTCTGCTGACAAATACCTY
50219 T G A CCCCAGGTATTTGTCAGCAGAGCGTCTTGCACCTGCATGGAAAGTGGCAGTTGGG
50219 T A A CCCCAGGTATTTGTCAGCAGAGTGTCTTGCACCTGCATGGAAAGTGGCAGTTGGG
GCCTGCACAGCACAAGGCCATCCTGGGCCCCAACTGCCACTTTCCATGCAGGTGCAAGAC[GA]CTCTGCTGACAAAT
50219 IS [GA] ACCTGGGGAAAGCAGGAGCTGTGGGAGGGAGGTAAAAATAGCACAG
50335 I S GCTTGCCTTCCTAGAAAAGGGTAATTTTCCTCTTGATTCAATGTTTT
50335 P T S CGCGCCGAGGATTGTAGAAAATAAAGTTAAAGAAAGAAATY
50335 P C S ATGACGTGGCAGACGTTGTAGAAAATAAAGTTAAAGAAAGAAAY
TTGTATTTCTTTCTTTAACTTTATTTTCTACAATAAACATTGAATCAAGAGGAAAATTACCCTTTTCTAGGAAGGCAAGC
50335 T T S AG
TTGTATTTCTTTCTTTAACTTTATTTTCTACAACAAACATTGAATCAAGAGGAAAATTACCCTTTTCTAGGAAGGCAAGC
50335 T C S AG
AAAAGACTCTTTTTAATTATACATGATTTGTATTTCTTTCTTTAACTTTATTTTCTACAA[TC]AAACATTGAATCAAGAGGA
50335 IS [TC] AAATTACCCTTTTCTAGGAAGGCAAGCAGAAAAGACTTTTT
50406 I S CTGTTAGGGTAGGAAATGAATCATAGGGTAAAATGGATGAT
50406 P C S ATGACGTGGCAGACGTAGATAGAAGTCTCTCATTTAAAAAGY
50406 P T S CGCGCCGAGGATAGATAGAAGTCTCTCATTTAAAAAGY
50406 T C S GACACTTTTTAAATGAGAGACTTCTATCTACTCATCCATTTTACCCTATGATTCATTTCCTACCCTAACAGAA
50406 T T S GACACTTTTTAAATGAGAGACTTCTATCTATTCATCCATTTTACCCTATGATTCATTTCCTACCCTAACAGAA
TAAAAAGTGCATTACATCAAGATTGCAAAAGACACTTTTTAAATGAGAGACTTCTATCTA[CT]TCATCCATTTTACCCTAT
50406 IS [CT] GATTCATTTCCTACCCTAACAGAAATGATGAAACAGTTTTTC BITE
50413 I S TGAGGGGGATGGAGGCTGCAGGAACC
50413 P C S ATGACGTGGCAGACGGGGGAAGGCAGGY
50413 P A S CGCGCCGAGGTGGGGAAGGCAGGY
50413 T C S CCCGCCTGCCTTCCCCCGTTCCTGCAGCCTCCATCCCCCTCATG
50413 T A S CCCGCCTGCCTTCCCCAGTTCCTGCAGCCTCCATCCCCCTCATG
GGACCCCAGCATGCAACTGCTGGGAGCTCACACTTCACAGGACCCCCGCCTGCCTTCCCC[CA]GTTCCTGCAGCCTC
50413 IS [CA] CATCCCCCTCATGGCGTCTGTGCACGAACATGCTTCAATCAGTGGG
50446 I A CAGTAACTCTAGAATAAACCTCCGGCCGGTCCAGT
50446 P G A ATGACGTGGCAGACGGGGGCTGGAATCCY
50446 P C A CGCGCCGAGGCGGGGCTGGAATCCY
50446 T G A AGGGGGATTCCAGCCCCCCTGGACCGGCCGGAGGTTTATTCTAGAGTTACTGGC
50446 T C A AGGGGGATTCCAGCCCCGCTGGACCGGCCGGAGGTTTATTCTAGAGTTACTGGC
CGGGAAAGAAAAGCACAGCTACCCGCCAGTAACTCTAGAATAAACCTCCGGCCGGTCCAG[GC]GGGGCTGGAATCCC
50446 IS [GC] CCTCCCTATCCCGCCTATCAATGAGACCAGATGATATAACACGGAC
50506 I S GGATTCCACATCTAGGAGGCCTCGGAACTCAGA
50506 P G S ATGACGTGGCAGACCGGGATTTTCTGAGACACY
50506 P A S CGCGCCGAGGTGGGATTTTCTGAGACACY

FIGURE 129D

50506 T	G	S	TGGTGTGTCTCAGAAAATCCCGCTGAGTTCCGAGGCCTCCTAGATGTGGAATCCTG		
50506 T	A	S	TGGTGTGTCTCAGAAAATCCCACTGAGTTCCGAGGCCTCCTAGATGTGGAATCCTG		
50506 IS	[GA]		ATAACGACCCTCAACAGCGGCGGAGAGGGAGCAGCCAGTTGGTGTGTCTCAGAAAATCCC[GA]CTGAGTTCCGAGGC CTCCTAGATGTGGAATCCTGCTGAGAGTTGTTCCCAGGTCAGAGAA		
50528 I		S	TGATCAACTATCAGCCCACACAGGACACCACTCT		
50528 P	C	S	ATGACGTGGCAGACGGATGCCAGCTGCTY		
50528 P	T	S	CGCGCCGAGGAGATGCCAGCTGCTY		
50528 T	C	S	AATGAGCAGCTGGCATCCGAGTGGTGTCCTGTGTGGGCTGATAGTTGATCACA		
50528 T	T	S	AATGAGCAGCTGGCATCTGAGTGGTGTCCTGTGTGGGCTGATAGTTGATCACA		
50528 IS	[CT]		AAAATATGCTTGGCAGAGACAGGAATGCTGTGTGCTTGTTCCAAATGAGCAGCTGGCATC[CT]GAGTGGTGTCCTGTG TGGGCTGATAGTTGATCACACATTGTGCTTTTGATTTTTGCATTT		MYOM2
51134 I		S	GACTGAGCCCCGCTAGCCAATTGCACT		
51134 P	C	S	ATGACGTGGCAGACGTAGATGTGTTTTATGTCTAGGAY		
51134 P	T	S	CGCGCCGAGGATAGATGTGTTTTATGTCTAGGAAY		
51134 T	C	S	TGGGTTCCTAGACATAAAACACATCTACGTGCAATTGGCTAGCGGGGCTCAGTCCC		
51134 T	T	S	TGGGTTCCTAGACATAAAACACATCTATGTGCAATTGGCTAGCGGGGCTCAGTCCC		
51134 IS	[CT]		TCAACATTGAAAGCAAAACTTCAAAGAGAAATATGGGTTCCTAGACATAAAACACATCTA[CT]GTGCAATTGGCTAGCG GGGCTCAGTCCCGCAGGGAAATGCCTCTATCAGGTCCCTCCATG		
51149 I		S	CAACTTGTCCCTGGAATCGGTTGTCTTGGCAA		
51149 P	A	S	CGCGCCGAGGTATTCTGGTGCCCATTTGY		
51149 P	G	S	ATGACGTGGCAGACCATTCTGGTGCCCATTTY		
51149 T	A	S	ACAGCAAATGGGCACCAGAATATGCCAAGACAACCGATTCCAGGGACAAGTTGAG		
51149 T	G	S	ACAGCAAATGGGCACCAGAATGTGCCAAGACAACCGATTCCAGGGACAAGTTGAG		
51149 IS	[AG]		CAAGTGAATAGATATACTCAACGCTGGGAAACAGGTAGCACAGCAAATGGGCACCAGAAT[AG]TGCCAAGACAACCGA TTCCAGGGACAAGTTGAGAGTTCTCTGTATAGAGAACATAAAATT		
51181 I		S	GCCCCACTATTCTCAGTAAGTACTCTTAAAAAGGTCATGAACATTTACTATCATT		
51181 P	C	S	ATGACGTGGCAGACGTTATACTGTATCGAGCATTCCY		
51181 P	T	S	CGCGCCGAGGATTATACTGTATCGAGCATTCCY		
51181 T	C	S	GGAAGGAATGCTCGATACAGTATAACATGATAGTAAATGTTCATGACCTTTTTAAGAGTACTTACTGAGAATAGTGGGG CAG		
51181 T	T	S	GGAAGGAATGCTCGATACAGTATAATATGATAGTAAATGTTCATGACCTTTTTAAGAGTACTTACTGAGAATAGTGGGG CAG		
51181 IS	[CT]		AAAGAGTGATGTTACAAAGGTCAAGGGAGTTTCCAGGAAGGAATGCTCGATACAGTATAA[CT]ATGATAGTAAATGTTC ATGACCTTTTTAAGAGTACTTACTGAGAATAGTGGGGCAGGAAG		
51185 I		A	AGTATACGTAATGAACTAGTGGATTATACTTGGCTTTAAAACTGTTTTAATTCAA		
51185 P	T	A	CGCGCCGAGGTTATTTCTATACAAAATAAGGCATTGY		
51185 P	C	A	ATGACGTGGCAGACCTATTTCTATACAAAATAAGGCATTGY		
51185 T	T	A	TTTGCAATGCCTTATTTTGTATAGAAATAATGAATTAAAACAGTTTTAAAGCCAAGTATAATCCACTAGTTCATTACGTAT ACTTA		
51185 T	C	A	TTTGCAATGCCTTATTTTGTATAGAAATAGTGAATTAAAACAGTTTTAAAGCCAAGTATAATCCACTAGTTCATTACGTA TACTTA		
51185 IS	[TC]		GACATAAGTATACGTAATGAACTAGTGGATTATACTTGGCTTTAAAACTGTTTTAATTCA[TC]TATTTCTATACAAAATAA GGCATTGCAAAGTTGAGATGAAAGTTTCTCTCTCCGTGCCTC		
51231 I		A	CTGGGGCATGAACCAGTGGAGAGAAATAGCAA		
51231 P	C	A	ATGACGTGGCAGACCAGATTACTAGAATGCTTTAGAAATCY		
51231 P	T	A	CGCGCCGAGGTAGATTACTAGAATGCTTTAGAAATCY		
51231 T	C	A	AAAGGATTTCTAAAGCATTCTAGTAATCTGTGCTATTTCTCTCCACTGGTTCATGCCCCAGCC		
51231 T	T	A	AAAGGATTTCTAAAGCATTCTAGTAATCTATGCTATTTCTCTCCACTGGTTCATGCCCCAGCC		
51231 IS	[CT]		AAGACTTCTGAGTGAGGAGGCCTGTGGGGCTGGGGCATGAACCAGTGGAGAGAAATAGCA[CT]AGATTACTAGAATG CTTTAGAAATCCTTTTCTGCTTCAGATAAGTGGCTAATTAAATTTG		
51258 I		A	CCCTAGACATCTTGCTTGGAGATCTCTGACATAACGTGTCA		
51258 P	C	A	ATGACGTGGCAGACCGGGATGATGAAGCTAAGY		
51258 P	T	A	CGCGCCGAGGTGGGATGATGAAGCTAAGY		
51258 T	C	A	GGGGCTTAGCTTCATCATCCCGGACACGTTATGTCAGAGATCTCCAAGCAAGATGTCTAGGGCC		
51258 T	T	A	GGGGCTTAGCTTCATCATCCCAGACACGTTATGTCAGAGATCTCCAAGCAAGATGTCTAGGGCC		
51258 IS	[CT]		CTGCACGGTGTTGGCTGAGGCCCTAGACATCTTGCTTGGAGATCTCTGACATAACGTGTC[CT]GGGATGATGAAGCT AAGCCCCAGTGAGACTGCCTACATGGTGTAATGGCAGGGACCGCAG		
51784 I		A	GCCTCTGGGCTCACCTCGCTGTGACA		
51784 P	C	A	ATGACGTGGCAGACCTGAAGGAGAATCTGCTGV		
51784 P	T	A	CGCGCCGAGGTTGAAGGAGAATCTGCTGAV		
51784 T	C	A	TCCTTCAGCAGATTCTCCTTCAGGTCACAGCGAGGTGAGCCCAGAGGCAG		
51784 T	T	A	TCCTTCAGCAGATTCTCCTTCAAGTCACAGCGAGGTGAGCCCAGAGGCAG		
51784 IS	[CT]		AGCCCCATGTGTGCCTGGTGCTCTGATGAGGCCCTGCCTCTGGGCTCACCTCGCTGTGAC[CT]TGAAGGAGAATCTG CTGAAGGATAACTGTGCCCCAGAATCCATCGAGTTCCCAGTGAGTG		ITGB3
51826 I		A	GGGGAGGCCCCACTTAGGCTGTTAAAAATAAAGTTGT		
51826 P	G	A	ATGACGTGGCAGACGGCATAGAACATTAATGATGACY		
51826 P	C	A	CGCGCCGAGGCGCATAGAACATTAATGATGACY		
51826 T	G	A	AGGGGTCATCATTAATGTTCTATGCCCAACTTTATTTTTAACAGCCTAAGTGGGGCCTCCCCAT		
51826 T	C	A	AGGGGTCATCATTAATGTTCTATGCGCAACTTTATTTTTAACAGCCTAAGTGGGGCCTCCCCAT		
51826 IS	[GC]		TCTTGCTTAGTGTCTCCAAGAAATGGGGAGGCCCCACTTAGGCTGTTAAAAATAAAGTTG[GC]GCATAGAACATTAAT GATGACCCCTTGGTGTTGTCATTTTGCTCCTATAACATCTGGAGT		
52037 I		S	CGGTAATGCGCCCGGAGCGACCT		
52037 P	C	S	ATGACGTGGCAGACGGGGAGCGAGCGY		
52037 P	T	S	CGCGCCGAGGAGGGAGCGAGCGAY		
52037 T	C	S	GCACTCGCTCGCTCCCCGGTCGCTCCGGGCGCATTACCGCT		
52037 T	T	S	GCACTCGCTCGCTCCCTGGTCGCTCCGGGCGCATTACCGCT		
52037 IS	[CT]		TCCATCCATCCAACCATCCATCCATTCATTCTTTCTTGACGCACTCGCTCGCTCCC[CT]GGTCGCTCCGGGCGC ATTACCGCTTCTTCTTCTGCTTGAGGGACTTCCTGCGTTTCAGGA		
52078 I		A	GAAATCCCTGCTAGCCTCTGGCCAGGTA		
52078 P	C	A	ATGACGTGGCAGACCCCTGGGTGCCCY		
52078 P	T	A	CGCGCCGAGGTCCTGGGTGCCCTY		
52078 T	C	A	TGAGAGGGCACCCAGGGACCTGGCCAGAGGCTAGCAGGGATTTCCT		
52078 T	T	A	TGAGAGGGCACCCAGGAACCTGGCCAGAGGCTAGCAGGGATTTCCT		
52078 IS	[CT]		AATTCACTGCCGTCATCTGGAGACCTGAACTAGGAAATCCCTGCTAGCCTCTGGCCAGGT[CT]CCTGGGTGCCCTCT CAGCCCTCTGGTGGTAGCTGATGGATAAGCCACATAGAACCCAGCT		
52315 I		S	TGTTCAATGACAGAAATGAGCATGAGTCTGCTAATTTGTCTTGTCTTA		
52315 P	G	S	ATGACGTGGCAGACCTAACAGCCATGTCGGY		
52315 P	A	S	CGCGCCGAGGTTAACAGCCATGTCGGY		
52315 T	G	S	TATGCCGACATGGCTGTTAGAAGACAAGACAAATTAGCAGACTCATGCTCATTTCTGTCATTGAACAAT		
52315 T	A	S	TATGCCGACATGGCTGTTAAAAGACAAGACAAATTAGCAGACTCATGCTCATTTCTGTCATTGAACAAT		
52315 IS	[GA]		ATTATAACTTAATAGCTTGTGAAATATACAAACAACAAGATTATGCCGACATGGCTGTTA[GA]AAGACAAGACAAATTAG CAGACTCATGCTCATTTCTGTCATTGAACAATTCGTCTCATTC		
52492 I		S	TTTGGCACGCACTCGGTTACTGATTGATAGGCA		
52492 P	G	S	ATGACGTGGCAGACCATTCAGGAAACAAAGACCAY		
52492 P	A	S	CGCGCCGAGGTATTCAGGAAACAAAGACCACY		
52492 T	G	S	TCTTGTGGTCTTTGTTTCCTGAATGGCCTATCAATCAGTAACCGAGTGCGTGCCAAACC		
52492 T	A	S	TCTTGTGGTCTTTGTTTCCTGAATAGCCTATCAATCAGTAACCGAGTGCGTGCCAAACC		

FIGURE 129D

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                                                                                GCTGGCTTGGCCCCGAGCCAGGAGCATGCTGAATTCTCTTGTGGTCTTTGTTTCCTGAAT[GA]GCCTATCAATCAGTA
52492 IS    [GA]                                                                ACCGAGTGCGTGCCAAACCCAGCCCACACGGGAACCCGGTGTCCT
61256 I                                                                     S   CCCCATCCCCTTTTACCATATCTCTGCTATTTTTCACCAGT
61256 P     C                                                               S   ATGACGTGGCAGACGAAATAGCAATTCTGTGTAAGAAAY
61256 P     T                                                               S   CGCGCCGAGGAAAATAGCAATTCTGTGTAAGAAAY

61256 T     C                                                               S   TTGTTTTCTTACACAGAATTGCTATTTCCTGGTGAAAAATAGCAGAGATATGGTAAAAGGGGATGGGGAA

61256 T     T                                                               S   TTGTTTTCTTACACAGAATTGCTATTTTCTGGTGAAAAATAGCAGAGATATGGTAAAAGGGGATGGGGAA
                                                                                AAGTACTGAATAAATATTTAAACTCAACAATGTTTGTTTTCTTACACAGAATTGCTATTT[CT]CTGGTGAAAAATAGCAGA
61256 IS    [CT]                                                                GATATGGTAAAAGGGGATGGGGAAAGATAAATCTTTGAAAGG
61858 I                                                                     A   GTCTACTCTCTGAAGGTTGTTCTAAGGGTCTGTGAAAGCAAA
61858 P     C                                                               A   ATGACGTGGCAGACCAAGAGGAAGTTCTTGTAGGY
61858 P     T                                                               A   CGCGCCGAGGTAAGAGGAAGTTCTTGTAGGY

61858 T     C                                                               A   TCGGCCTACAAGAACTTCCTCTTGTTGCTTTCACAGACCCTTAGAACAACCTTCAGAGAGTAGACTG

61858 T     T                                                               A   TCGGCCTACAAGAACTTCCTCTTATTGCTTTCACAGACCCTTAGAACAACCTTCAGAGAGTAGACTG
                                                                                TTGTTTTTGTTTTCTTGCAGTCTACTCTCTGAAGGTTGTTCTAAGGGTCTGTGAAAGCAA[CT]AAGAGGAAGTTCTTGT
61858 IS    [CT]                                                                AGGCCGAAAAAGGAAAAAAAGAAAAAGAAACAGAGGATGAGAGG
62033 I                                                                     A   GCTGTTTCCAGCCCCCCTAACCTGCTA
62033 P     T                                                               A   CGCGCCGAGGTTATTTTCTTGTAGTGTTATTAGCTTY
62033 P     C                                                               A   ATGACGTGGCAGACCTATTTTCTTGTAGTGTTATTAGCTTY
62033 T     T                                                               A   AGCCAAGCTAATAACACTACAAGAAAATAAAGCAGGTTAGGGGGGCTGGAAACAGCTA
62033 T     C                                                               A   AGCCAAGCTAATAACACTACAAGAAAATAGAGCAGGTTAGGGGGGCTGGAAACAGCTA
                                                                                TTTGGTATTACACAAACTCAAAACTAATGTACTAGCTGTTTCCAGCCCCCCTAACCTGCT[TC]TATTTTCTTGTAGTGTT
62033 IS    [TC]                                                                ATTAGCTTGGCTACTAAATGTGCCATGCCCAGTTTTCGAATGC
62405 I                                                                     S   TTTTCTTCTGCACTAGAATTATCTCCTGAGTCCTTATAATAATTTCCTTT
62405 P     G                                                               S   CGCGCCGAGGCACAACCTGTACCTATGAACY
62405 P     C                                                               S   ATGACGTGGCAGACGACAACCTGTACCTATGAACY

62405 T     G                                                               S   TGTTGTTCATAGGTACAGGTTGTGAAGGAAATTATTATAAGGACTCAGGAGATAATTCTAGTGCAGAAGAAAAGG

62405 T     C                                                               S   TGTTGTTCATAGGTACAGGTTGTCAAGGAAATTATTATAAGGACTCAGGAGATAATTCTAGTGCAGAAGAAAAGG
                                                                                AATCTAGGCCATAGTGATATATTTTAGAATGTAGATTTGTTGTTCATAGGTACAGGTTGT[GC]AAGGAAATTATTATAAG
62405 IS    [GC]                                                                GACTCAGGAGATAATTCTAGTGCAGAAGAAAAGGTCAAATCTT
63342 I                                                                     S   TGCTTTTAAATACCAAACTAGAATAGGAACTTAGATAATTAAAGCTTAGTTGGAT
63342 P     G                                                               S   ATGACGTGGCAGACCAAGTACATATTTACTTAGGCACY
63342 P     T                                                               S   CGCGCCGAGGAAAGTACATATTTACTTAGGCACY
                                                                                AAGCGTGCCTAAGTAAATATGTACTTGTCCAACTAAGCTTTAATTATCTAAGTTCCTATTCTAGTTTGGTATTTAAAAGC
63342 T     G                                                               S   AAA
                                                                                AAGCGTGCCTAAGTAAATATGTACTTTTCCAACTAAGCTTTAATTATCTAAGTTCCTATTCTAGTTTGGTATTTAAAAGC
63342 T     T                                                               S   AAA
                                                                                CAAACTACAGAGATTTTATTACTTAAATTTTCCCAAGCGTGCCTAAGTAAATATGTACTT[GT]TCCAACTAAGCTTTAATT
63342 IS    [GT]                                                                ATCTAAGTTCCTATTCTAGTTTGGTATTTAAAAGCAAAGCTT
63376 I                                                                     A   AATCAAACCTGAAGATTTAGCACTACAAAAAATAATCCTAGAAAATGATCAT
63376 P     A                                                               A   CGCGCCGAGGATGTATTTGGAAGAACATGGAY
63376 P     G                                                               A   ATGACGTGGCAGACGTGTATTTGGAAGAACATGGAY

63376 T     A                                                               A   AAGGTCCATGTTCTTCCAAATACATTGATCATTTTCTAGGATTATTTTTTGTAGTGCTAAATCTTCAGGTTTGATTTA

63376 T     G                                                               A   AAGGTCCATGTTCTTCCAAATACACTGATCATTTTCTAGGATTATTTTTTGTAGTGCTAAATCTTCAGGTTTGATTTA
                                                                                ATACCTGTAAATCAAACCTGAAGATTTAGCACTACAAAAAATAATCCTAGAAAATGATCA[AG]TGTATTTGGAAGAACAT
63376 IS    [AG]                                                                GGACCTTTACTTAGAAAAGAATTATAATTTCAATTAAGTTCAG
63838 I                                                                     S   CCCTAAATTAGGACATGTGGTCTAATTTTGGAGCATTTTATGTT
63838 P     T                                                               S   CGCGCCGAGGATACGCCAAACAGCCTY
63838 P     C                                                               S   ATGACGTGGCAGACGTACGCCAAACAGCCY
63838 T     T                                                               S   TCTCAGGCTGTTTGGCGTATACATAAAATGCTCCAAAATTAGACCACATGTCCTAATTTAGGGTT
63838 T     C                                                               S   TCTCAGGCTGTTTGGCGTACACATAAAATGCTCCAAAATTAGACCACATGTCCTAATTTAGGGTT
                                                                                AGTCTTCATGTATTCTAATATATTTCAATTCAAGCTACATTTCTCAGGCTGTTTGGCGTA[TC]ACATAAAATGCTCCAAA
63838 IS    [TC]                                                                ATTAGACCACATGTCCTAATTTAGGGTTTAAAAATTCAGTTTG
63842 I                                                                     S   TGCTTGGAAGATGACCTTTTCCCACTTTCAGTGAACTTGT
63842 P     C                                                               S   ATGACGTGGCAGACGTCTTTCTCAGATTTGGTGAY
63842 P     T                                                               S   CGCGCCGAGGATCTTTCTCAGATTTGGTGAAY
63842 T     C                                                               S   CTTATTCACCAAATCTGAGAAAGACCAAGTTCACTGAAAGTGGGAAAAGGTCATCTTCCAAGCAAA
63842 T     T                                                               S   CTTATTCACCAAATCTGAGAAAGATCAAGTTCACTGAAAGTGGGAAAAGGTCATCTTCCAAGCAAA
                                                                                GTGAACCAACCACTGTACTAGAAGTACATCTTAATGCTTATTCACCAAATCTGAGAAAGA[CT]CAAGTTCACTGAAAGT
63842 IS    [CT]                                                                GGGAAAAGGTCATCTTCCAAGCAAAGAACAAAATATTTCTGGAC
64079 I                                                                     S   CCAATTACAGTCTCGGGATAAATGTGAGATTCATTATTCTTCTT
64079 P     C                                                               S   ATGACGTGGCAGACGACTTTCTTGGTCCCATTTY
64079 P     T                                                               S   CGCGCCGAGGAACTTTCTTGGTCCCATTTY

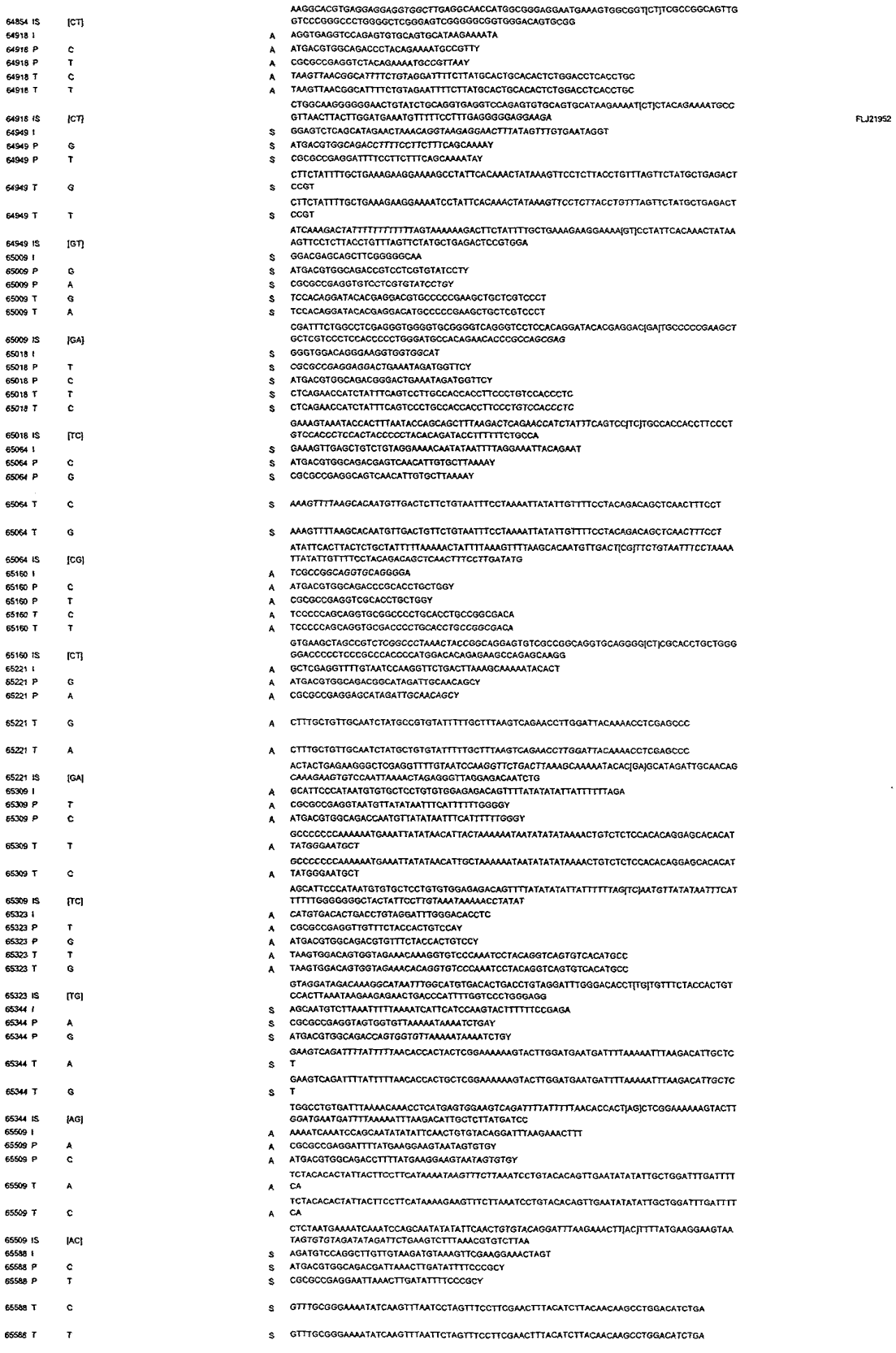
64079 T     C                                                               S   TAACAAATGGGACCAAGAAAGTCAGAAGAATAATGAATCTCACATTTATCCCGAGACTGTAATTGGTT

64079 T     T                                                               S   TAACAAATGGGACCAAGAAAGTTAGAAGAATAATGAATCTCACATTTATCCCGAGACTGTAATTGGTT
                                                                                TACCAAATACCATCAGGTGCAGAGAACTCACTATTTTCTAACAAATGGGACCAAGAAAGT[CT]AGAAGAATAATGAATC
64079 IS    [CT]                                                                TCACATTTATCCCGAGACTGTAATTGGTTCAACATTTTAGCCT
64124 I                                                                     A   AATCATTGTTTCAACAGTAAGCTTAAAAGCACTTAGGTACTTGATAA
64124 P     T                                                               A   CGCGCCGAGGTGGTGCTAGGTAGTCAAGY
64124 P     C                                                               A   ATGACGTGGCAGACCGGTGCTAGGTAGTCAAY

64124 T     T                                                               A   TTATCTTGACTACCTAGCACCATATCAAGTACCTAAGTGCTTTTAAGCTTACTGTTGAAACAATGATTGA

64124 T     C                                                               A   TTATCTTGACTACCTAGCACCGTATCAAGTACCTAAGTGCTTTTAAGCTTACTGTTGAAACAATGATTGA
                                                                                TCATTTATGTAATCAATCATTGTTTCAACAGTAAGCTTAAAAGCACTTAGGTACTTGATA[TC]GGTGCTAGGTAGTCAAG
64124 IS    [TC]                                                                ATAAAATATATATATAAGAGGCAGGCCCTGACTGCACCAAT
64804 I                                                                     S   CGAAGGCGAGGCTTGGAATGGGGGA
64804 P     G                                                               S   ATGACGTGGCAGACCGGGGCTGAGAGGY
64804 P     A                                                               S   CGCGCCGAGGTGGGGCTGAGAGGAY
64804 T     G                                                               S   ACCCTCCTCTCAGCCCCGCCCCCATTCCAAGCCTCGCCTTCGCC
64804 T     A                                                               S   ACCCTCCTCTCAGCCCCACCCCCATTCCAAGCCTCGCCTTCGCC
                                                                                CCCAACAGCCACCCTACCCTAAGGGCTCACCCTAGCCCCGCGCACCCTCCTCTCAGCCCC[GA]CCCCCATTCCAAGC
64804 IS    [GA]                                                                CTCGCCTTCGCCCGGCCCAGTGCGTCCCTCTACCTTCCCATCTGGC
64854 I                                                                     S   CCGGGACCAACTGCCGGCGAT
64854 P     C                                                               S   ATGACGTGGCAGACGACCGCCACTTTCATTY
64854 P     T                                                               S   CGCGCCGAGGAACCGCCACTTTCATTCY
64854 T     C                                                               S   GGAGGAATGAAAGTGGCGGTCTCGCCGGCAGTTGGTCCCGGGC
64854 T     T                                                               S   GGAGGAATGAAAGTGGCGGTTTCGCCGGCAGTTGGTCCCGGGC
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FIGURE 129D



Replacement Sheet

FIGURE 129D

65588 IS	[CT]		TTTCCTCCAAACTGCTTGTTGATTAAAGCAATGGGTTTGCGGGAAAATATCAAGTTTAAT[CT]CTAGTTTCCTTCGAACTTTACATCTTACAACAAGCCTGGACATCTGATTCTGTGTATTTG
65716 I		A	TGCTCACTTTATTCTTCCTAAAATATGTGTGGAATACAAATGCTCTCAGATTGAT
65716 P	A	A	CGCGCCGAGGATTCCTCTTTGAACCACACY
65716 P	G	A	ATGACGTGGCAGACGTTCCTCTTTGAACCACAY
65716 T	A	A	AAATGTGTGGTTCAAAGAGGAATTCAATCTGAGAGCATTTGTATTCCACACATATTTTAGGAAGAATAAAGTGAGCATT
65716 T	G	A	AAATGTGTGGTTCAAAGAGGAACTCAATCTGAGAGCATTTGTATTCCACACATATTTTAGGAAGAATAAAGTGAGCATT
65716 IS	[AG]		TGCAAATGCTCACTTTATTCTTCCTAAAATATGTGTGGAATACAAATGCTCTCAGATTGA[AG]TTCCTCTTTGAACCACACATTTGAATATTTTCTGCTTAATATTTGCTAATGCCCATGAAA
65741 I		A	CCAGCATGCTCTTCTTCCACCAGTAGGGAGC
65741 P	G	A	ATGACGTGGCAGACGAATAATAAACATGTCAAGAGGAGY
65741 P	T	A	CGCGCCGAGGTAATAATAAACATGTCAAGAGGAGY
65741 T	G	A	TCTGCTCCTCTTGACATGTTTATTATTCCTCCCTACTGGTGGAAGAAGAGCATGCTGGCC
65741 T	T	A	TCTGCTCCTCTTGACATGTTTATTATTACTCCCTACTGGTGGAAGAAGAGCATGCTGGCC
65741 IS	[GT]		ACATGAGTGGAGGGGTTATTCTCTAAGAGGCCAGCATGCTCTTCTTCCACCAGTAGGGAG[GT]AATAATAAACATGTCAAGAGGAGCAGAAAAAAGATAAGAGTTCCTTAAAATCTTTTGAGG
65793 I		S	GAAATAATGAAAAATTGACTCTTTTTAATATATTGTCATATTCTAAAACACTAAAAAGTGT
65793 P	G	S	ATGACGTGGCAGACCCTGACCAATAGTAGGAATAATATY
65793 P	T	S	CGCGCCGAGGACTGACCAATAGTAGGAATAATATGY
65793 T	G	S	TCATCATATTATTCCTACTATTGGTCAGGCACTTTTTAGTGTTTTAGAATATGACAATATATTAAAAAGAGTCAATTTTTCATTATTTC
65793 T	T	S	TCATCATATTATTCCTACTATTGGTCAGTCACTTTTTAGTGTTTTAGAATATGACAATATATTAAAAAGAGTCAATTTTTCATTATTTC
65793 IS	[GT]		GGAGAAAACTGGAGGAAAGGGGCTATTGGAGTTCATCATATTATTCCTACTATTGGTCAG[GT]CACTTTTTAGTGTTTTAGAATATGACAATATATTAAAAAGAGTCAATTTTTCATTATTTC
65882 I		S	CATGGCTCTACTTTCCTAAGTTAGTGGCTAAAATATAAAGAATGAACCTCAGATT
65882 P	G	S	CGCGCCGAGGCCTGAGTTAGTCAATGCAAY
65882 P	C	S	ATGACGTGGCAGACGCTGAGTTAGTCAATGCAY
65882 T	G	S	TATTTTGCATTGACTAACTCAGGATCTGAGGTTCATTCTTTATATTTTAGCCACTAACTTAGGAAAGTAGAGCCATGAC
65882 T	C	S	TATTTTGCATTGACTAACTCAGCATCTGAGGTTCATTCTTTATATTTTAGCCACTAACTTAGGAAAGTAGAGCCATGAC
65882 IS	[GC]		TACACAGCTGCTGACATTTCCATATAGCTACTATATTATATTTTGCATTGACTAACTCAG[GC]ATCTGAGGTTCATTCTTTATATTTTAGCCACTAACTTAGGAAAGTAGAGCCATGACTTTC
65987 I		A	CCTGTCTTCCTGGAGCTTGGGCTATAATGGGT
65987 P	A	A	CGCGCCGAGGAGAGACACAGCCAATCCY
65987 P	G	A	ATGACGTGGCAGACGGAGACACAGCCAATCY
65987 T	A	A	ATTGGGATTGGCTGTGTCTCTCCCATTATAGCCCAAGCTCCAGGAAGACAGGGA
65987 T	G	A	ATTGGGATTGGCTGTGTCTCCCCCATTATAGCCCAAGCTCCAGGAAGACAGGGA
65987 IS	[AG]		AAGTGTTAGAGGAGAGGGAAGCCATGATCCCTGTCTTCCTGGAGCTTGGGCTATAATGGG[AG]GAGACACAGCCAATCCCAATAAGCGAGCATGAACCCAGCTGACACATAACCCCGAGACAC
65994 I		A	GGATCCTCACGGAAATAGTAGATCCTTATGCTGTCTCCAT
65994 P	G	A	ATGACGTGGCAGACGTGTGGTGAAGTTGATCTGY
65994 P	A	A	CGCGCCGAGGATGTGGTGAAGTTGATCTGY
65994 T	G	A	AGCTCAGATCAACTTCACCACACTGGAGACAGCATAAGGATCTACTATTTCCGTGAGGATCCTG
65994 T	A	A	AGCTCAGATCAACTTCACCACATTGGAGACAGCATAAGGATCTACTATTTCCGTGAGGATCCTG
65994 IS	[GA]		AGAGCTAATTTTTTCCTCCCAGGATCCTCACGGAAATAGTAGATCCTTATGCTGTCTCCA[GA]TGTGGTGAAGTTGATCTGAGCTTGTCCTTGGGACCTGGCACTGGTGGTGTCTGCATGGCT
66005 I		A	TTCAACAATTATCTAAGCAACGAACAGATATTCGAAATGTTCTCTT
66005 P	A	A	CGCGCCGAGGAGCTTTTGAAGACGACAAY
66005 P	C	A	ATGACGTGGCAGACCGCTTTTGAAGACGACAY
66005 T	A	A	CCTGTTGTCGTCTTCAAAAGCTAGAGAACATTTCGAATATCTGTTCGTTGCTTAGATAATTGTTGAAAT
66005 T	C	A	CCTGTTGTCGTCTTCAAAAGCGAGAGAACATTTCGAATATCTGTTCGTTGCTTAGATAATTGTTGAAAT
66005 IS	[AC]		TTAAATATGTTTAATTTCAACAATTATCTAAGCAACGAACAGATATTCGAAATGTTCTCT[AC]GCTTTTGAAGACGACAACAGGAGTCTCCGTGTTTTAAGTTTAATATAGGATATATCAGAT
66072 I		S	GACTATGCATATTACTCAAGTTTAAGAAACACTAATCTAAAAAATTTCTAGTCAAACAA
66072 P	A	S	CGCGCCGAGGTAGGAATTCTTTAATGTTCTTAGCY
66072 P	G	S	ATGACGTGGCAGACCAGGAATTCTTTAATGTTCTTAGCY
66072 T	A	S	TACTGCTAAGAACATTAAAGAATTCCTATGTTTGACTAGAAATTTTTTAGATTAGTGTTTCTTAAACTTGAGTAATATGCATAGTCCT
66072 T	G	S	TACTGCTAAGAACATTAAAGAATTCCTGTGTTTGACTAGAAATTTTTTAGATTAGTGTTTCTTAAACTTGAGTAATATGCATAGTCCT
66072 IS	[AG]		AAGTGGAAGAATTTGTTAAGAGATATGAGCATTTACTGCTAAGAACATTAAAGAATTCCT[AG]TGTTTGACTAGAAATTTTTTAGATTAGTGTTTCTTAAACTTGAGTAATATGCATAGTCCT
66073 I		S	GGGTCCTCCATGACTTTTGTCCTTTAAAAGGACTATGCATT
66073 P	T	S	CGCGCCGAGGATTACTCAAGTTTAAGAAACACTAATY
66073 P	C	S	ATGACGTGGCAGACGTTACTCAAGTTTAAGAAACACTAAY
66073 T	T	S	TTAGATTAGTGTTTCTTAAACTTGAGTAATATGCATAGTCCTTTTAAAGGACAAAAGTCATGGAGGACCCTC
66073 T	C	S	TTAGATTAGTGTTTCTTAAACTTGAGTAACATGCATAGTCCTTTTAAAGGACAAAAGTCATGGAGGACCCTC
66073 IS	[TC]		TAAAGAATTCCTATGTTTGACTAGAAATTTTTTAGATTAGTGTTTCTTAAACTTGAGTAA[TC]ATGCATAGTCCTTTTAAAGGACAAAAGTCATGGAGGACCCTCAGCATTGGCTTTTTATTA
66083 I		A	GCCCTGGTGCTTTTCACTGGGACATAGCATTTACT
66083 P	A	A	CGCGCCGAGGATGGCAATAACACATTTTGCY
66083 P	G	A	ATGACGTGGCAGACGTGGCAATAACACATTTTGCY
66083 T	A	A	TGGTGCAAAATGTGTTATTGCCATGTAAATGCTATGTCCCAGTGAAAAGCACCAGGGCAT
66083 T	G	A	TGGTGCAAAATGTGTTATTGCCACGTAAATGCTATGTCCCAGTGAAAAGCACCAGGGCAT
66083 IS	[AG]		TTATTCCTTTGATGTGCACAGCACATGCCCTGGTGCTTTTCACTGGGACATAGCATTTAC[AG]TGGCAATAACACATTTTGCACCATAGCTGCTTTCCTCATGGCAAATGAACAAATGTGATG
66087 I		S	GATTCCATCTGATTGTTTATGTGTAATATCCATGAAAGCTAGGAT
66087 P	T	S	CGCGCCGAGGAAGTATTCGTCTAGTAGAAGACY
66087 P	G	S	ATGACGTGGCAGACCAGTATTCGTCTAGTAGAAGACY
66087 T	T	S	CTCGGTCTTCTACTAGACGAATACTTTCCTAGCTTTCATGGATATTACACATAAACAATCAGATGGAATCAA
66087 T	G	S	CTCGGTCTTCTACTAGACGAATACTGTCCTAGCTTTCATGGATATTACACATAAACAATCAGATGGAATCAA
66087 IS	[TG]		TCTCTTGCCTACCTAACCCATGCAATTCCTACCCTCTCGGTCTTCTACTAGACGAATACT[TG]TCCTAGCTTTCATGGATATTACACATAAACAATCAGATGGAATCAAGAGTTATATTAGAA
66115 I		A	CTCCTTTGAGTGTAAACAATACAGTAAGAATTTTAAGCTACGTTAAAAGATA
66115 P	C	A	ATGACGTGGCAGACCGAGGACATGGAGAGGY
66115 P	T	A	CGCGCCGAGGTGAGGACATGGAGAGGY
66115 T	C	A	CCAGCCTCTCCATGTCCTCGATCTTTTAACGTAGCTTAAAATTCTTACTGTATTGTTTACACTCAAAGGAGTG

66115 T	T	A	CCAGCCTCTCCATGTCCTCAATCTTTTAACGTAGCTTAAAATTCTTACTGTATTGTTTACACTCAAAGGAGTG		
66115 IS	[CT]		AAATATACACTCCTTTGAGTGTAAACAATACAGTAAGAATTTTAAGCTACGTTAAAAGAT[CT]GAGGACATGGAGAGGC TGGGATTTAAGCATGTAGCAATGATATATTAAGTGGGTGAAAAT		
66119 I		A	GACAGACCTTTAAACATTGTATTGAGTAGAGATCTATAGCATAACACTATTTTTAC		
66119 P	T	A	CGCGCCGAGGTTAAATAAAATTACATGTCCACAAACY		
66119 P	G	A	ATGACGTGGCAGACGTAAATAAAATTACATGTCCACAAACY		
66119 T	T	A	TACAGTTTGTGGACATGTAATTTTATTTAATAAAAATAGTGTTATGCTATAGATCTCTACTCAATACAATGTTTAAAGGTC TGTCTG		
66119 T	G	A	TACAGTTTGTGGACATGTAATTTTATTTACTAAAAATAGTGTTATGCTATAGATCTCTACTCAATACAATGTTTAAAGGT CTGTCTG		
66119 IS	[TG]		TTACAGACAGACCTTTAAACATTGTATTGAGTAGAGATCTATAGCATAACACTATTTTTA[TG]TAAATAAAATTACATGTC CACAAACTGTAATTTTTAAGAACACCTATAATAAAAAGATCG		
66130 I		S	ACCAGGATACCACATTTTCACATAGAATGTGAACCAA		
66130 P	G	S	ATGACGTGGCAGACCGTTCTTCTATGCATATCTGGY		
66130 P	A	S	CGCGCCGAGGTGTTCTTCTATGCATATCTGGY		
66130 T	G	S	GACACCAGATATGCATAGAAGAACGTGGTTCACATTCTATGTGAAAATGTGGTATCCTGGTAT		
66130 T	A	S	GACACCAGATATGCATAGAAGAACATGGTTCACATTCTATGTGAAAATGTGGTATCCTGGTAT		
66130 IS	[GA]		CATTTAAATATTGACTGAAGAGAATATTAAGCTTCAGACACCAGATATGCATAGAAGAAC[GA]TGGTTCACATTCTATGT GAAAATGTGGTATCCTGGTATATATTCTCCTCAGGTGGTTCTT		
66199 I		A	CATCTGTTTTCTCACAAGATAGAGAACCCCTTTGTAGGCAAAGATTATT		
66199 P	G	A	ATGACGTGGCAGACGTTCCTCACAGTATCTAGCY		
66199 P	A	A	CGCGCCGAGGATTCCTCACAGTATCTAGCAY		
66199 T	G	A	TTGCTGCTAGATACTGTGAGGAACATAATCTTTGCCTACAAAGGGGTTCTCTATCTTGTGAGAAAACAGATGGG		
66199 T	A	A	TTGCTGCTAGATACTGTGAGGAATATAATCTTTGCCTACAAAGGGGTTCTCTATCTTGTGAGAAAACAGATGGG		
66199 IS	[GA]		TTTATGTGTGCCCATCTGTTTTCTCACAAGATAGAGAACCCCTTTGTAGGCAAAGATTAT[GA]TTCCTCACAGTATCTA GCAGCAAGCTTCAATTTCAGTGAACATTTAATAAATGTCGGTAG		
66218 I		S	GAACCTGTACTGGAAAGATAATTTGGAAAAATAATAATTTTGAAAGAGAATAGAACAT		
66218 P	C	S	ATGACGTGGCAGACGAGTGAAATAAATAGAACAAAACTGY		
66218 P	T	S	CGCGCCGAGGAAGTGAAATAAATAGAACAAAACTGY		
66218 T	C	S	TCTCCAGTTTTGTTCTATTTATTTCACTCTGTTCTATTCTCTTTCAAAATTATTATTTTTCCAAATTATCTTTCCAGTACAG GTTCTA		
66218 T	T	S	TCTCCAGTTTTGTTCTATTTATTTCACTTTGTTCTATTCTCTTTCAAAATTATTATTTTTCCAAATTATCTTTCCAGTACAG GTTCTA		
66218 IS	[CT]		TTCCCTATCATACTGTGCAAGGCTGCTAATTTTCTCCAGTTTTGTTCTATTTATTTCACT[CT]TGTTCTATTCTCTTTCAA AATTATTATTTTTCCAAATTATCTTTCCAGTACAGGTTCTAT		
66240 I		A	CATACTCATCTAAGGCAGAGAAAAAGGCCACAGTGGAA		
66240 P	T	A	CGCGCCGAGGTGCTGAAGGCAACTTTGY		
66240 P	C	A	ATGACGTGGCAGACCGCTGAAGGCAACTTTY		
66240 T	T	A	GGATCAAAGTTGCCTTCAGCATCCACTGTGGCCTTTTTCTCTGCCTTAGATGAGTATGAG		
66240 T	C	A	GGATCAAAGTTGCCTTCAGCGTCCACTGTGGCCTTTTTCTCTGCCTTAGATGAGTATGAG		
66240 IS	[TC]		GCCCCCCGACTATGTGGATGCCTCATACTCATCTAAGGCAGAGAAAAAGGCCACAGTGGA[TC]GCTGAAGGCAACTTT GATCCCCGGCCTGTGGAGACCCTCAAGTGAGGCCTGGGGGCTGGG		
66270 I		A	AGCAGTGCTCAGTAGCAGGGAGATATGAGCTATTACCT		
66270 P	G	A	ATGACGTGGCAGACGGATCTTATGCTGTGTGAGY		
66270 P	A	A	CGCGCCGAGGAGATCTTATGCTGTGTGAGY		
66270 T	G	A	CCTCCTCACACAGCATAAGATCCGGTAATAGCTCATATCTCCCTGCTACTGAGCACTGCTGG		
66270 T	A	A	CCTCCTCACACAGCATAAGATCTGGTAATAGCTCATATCTCCCTGCTACTGAGCACTGCTGG		
66270 IS	[GA]		CTTCACACTCAAAGAGTAGCACCAGCAGTGCTCAGTAGCAGGGAGATATGAGCTATTACC[GA]GATCTTATGCTGTGT GAGGAGGGCCCTGCCCTCACTATCCAGAGCCCGGAGTTCCTCTTG		
66271 I		S	AGTGAGGGCAGGGCCCTCCTCACT		
66271 P	T	S	CGCGCCGAGGACAGCATAAGATCCGGTY		
66271 P	C	S	ATGACGTGGCAGACGCAGCATAAGATCCGGY		
66271 T	T	S	TATTACCGGATCTTATGCTGTGTGAGGAGGGCCCTGCCCTCACTAT		
66271 T	C	S	TATTACCGGATCTTATGCTGCGTGAGGAGGGCCCTGCCCTCACTAT		
66271 IS	[TC]		GAGTAGCACCAGCAGTGCTCAGTAGCAGGGAGATATGAGCTATTACCGGATCTTATGCTG[TC]GTGAGGAGGGCCCT GCCCTCACTATCCAGAGCCCGGAGTTCCTCTTGGGTAAACTCATCC		
66277 I		S	AGCAGAGTCTGAGGGTTTTCAGGCCTGACAA		
66277 P	G	S	ATGACGTGGCAGACCGCTGAGCGTCTAAGAY		
66277 P	A	S	CGCGCCGAGGTGCTGAGCGTCTAAGAAY		
66277 T	G	S	GAGATTCTTAGACGCTCAGCGTGTCAGGCCTGAAAACCCTCAGACTCTGCTCT		
66277 T	A	S	GAGATTCTTAGACGCTCAGCATGTCAGGCCTGAAAACCCTCAGACTCTGCTCT		
66277 IS	[GA]		AAAGGGTACCTCACACAGCCCAGGTCTATTTCTTAGAATAGAGATTCTTAGACGCTCAGC[GA]TGTCAGGCCTGAAAA CCCTCAGACTCTGCTCTAAGCCCTCTGTCCTTTAGAGAGGAGGAA		
66278 I		S	GTGTGTGTGTTATACAGATAGACAATCTAAAAAGAAATATAATAAGCACATGT		
66278 P	C	S	ATGACGTGGCAGACGCTGAGAATTAAGAGATTCACAY		
66278 P	G	S	CGCGCCGAGGCCTGAGAATTAAGAGATTCACAY		
66278 T	C	S	AAAATGTGAATCTCTTAATTCTCAGCCATGTGCTTATTATATTTCTTTTTAGATTGTCTATCTGTATAACACACACACACA C		
66278 T	G	S	AAAATGTGAATCTCTTAATTCTCAGGCATGTGCTTATTATATTTCTTTTTAGATTGTCTATCTGTATAACACACACACACA C		
66278 IS	[CG]		TGATTTTTTTCACATTTAAGCAGGAATGCAATATAAAAATGTGAATCTCTTAATTCTCAG[CG]CATGTGCTTATTATATTT CTTTTTAGATTGTCTATCTGTATAACACACACACACACACCT		
67406 I		A	TGCTGTTAAGGATTTAAAAATAAACAGAAACATAGAGTATAAAATTTTCATTTCACTGTT		
67406 P	G	A	ATGACGTGGCAGACGCCCTCATTTAAAATTATAAGAATATAAGY		
67406 P	C	A	CGCGCCGAGGCCCCTCATTTAAAATTATAAGAATATAAGY		
67406 T	G	A	TTTGCTTATATTCTTATAATTTTAAATGAGGGCACAGTGAAATGAAAATTTTATACTCTATGTTTCTGTTTATTTTTAAAT CCTTAACAGCAA		
67406 T	C	A	TTTGCTTATATTCTTATAATTTTAAATGAGGGGACAGTGAAATGAAAATTTTATACTCTATGTTTCTGTTTATTTTTAAAT CCTTAACAGCAA		
67406 IS	[GC]		TTGCTGTTAAGGATTTAAAAATAAACAGAAACATAGAGTATAAAATTTTCATTTCACTGT[GC]CCCTCATTTAAAATTATA AGAATATAAGCAAATAACATCCAATGTCAGAAGAGATTCAGG		LOC51074
67408 I		A	TCATCCCCTTTTGCATGTAAATTAAGCAATAACTTGGAAAAAT		
67408 P	A	A	CGCGCCGAGGAGTTAGTATGCAATAATTTTCATTTCY		
67408 P	C	A	ATGACGTGGCAGACCGTTAGTATGCAATAATTTTCATTTCY		
67408 T	A	A	GTTTGAAATGAAAATTATTGCATACTAACTTTTTTCCAAGTTATTGCTTAATTTACATGCAAAAGGGGATGAAA		
67408 T	C	A	GTTTGAAATGAAAATTATTGCATACTAACGTTTTTTCCAAGTTATTGCTTAATTTACATGCAAAAGGGGATGAAA		
67408 IS	[AC]		TCTTTGCCTGTTTCTCTTTCATCCCCTTTTGCATGTAAATTAAGCAATAACTTGGAAAAA[AC]GTTAGTATGCAATAATTT TCATTTCAAACTGAAAGCACTCTAGTTCCCTTAATGCAAGGT		
67410 I		A	AGGCCCAGCCCCCACCTGCA		
67410 P	T	A	CGCGCCGAGGTACCTCCCTGCTTCCTY		
67410 P	C	A	ATGACGTGGCAGACCACCTCCCTGCTTCCY		
67410 T	T	A	CTGCAGGAAGCAGGGAGGTAGCAGGTGGGGGCTGGGCCTCC		
67410 T	C	A	CTGCAGGAAGCAGGGAGGTGGCAGGTGGGGGCTGGGCCTCC		

				AGGCTGCAAGGGGCCAGTGAAGGGGTGATCTGGGGAGAAGGAGGCCCAGCCCCCACCTGC[TC]ACCTCCCTGCTTC
67410	IS	[TC]		CTGCAGAGAGGTTTATTCTCAGGCAAATGGCTCCTTGTTGGCCTGAG
67429	I		A	GGAGCTGAGTCCCGGGGACAGGAT
67429	P	A	A	CGCGCCGAGGAGCTCCAGAGGCAGY
67429	P	G	A	ATGACGTGGCAGACGGCTCCAGAGGCAGY
67429	T	A	A	GTCTCTGCCTCTGGAGCTTCCTGTCCCCGGGACTCAGCTCCCC
67429	T	G	A	GTCTCTGCCTCTGGAGCCTCCTGTCCCCGGGACTCAGCTCCCC
				GCAGCCCAGGAGGCAGAGCCCAGCCACAGAGGGGAGGGGAGCTGAGTCCCGGGGACAGGA[AG]GCTCCAGAGGCA
67429	IS	[AG]		GAGACGGAGCCCAGGGCTAGGGCGGCAGGTGTCAGGGCTGTGGCTTCA
67432	I		S	CTGTGGGAACCACCCATCTGAAGAGCACATCT
67432	P	C	S	ATGACGTGGCAGACGGCTGCATTTCTCCATCY
67432	P	T	S	CGCGCCGAGGAGCTGCATTTCTCCATCY
67432	T	C	S	AGAAGATGGAGAAATGCAGCCGATGTGCTCTTCAGATGGGTGGTTCCCACAGCC
67432	T	T	S	AGAAGATGGAGAAATGCAGCTGATGTGCTCTTCAGATGGGTGGTTCCCACAGCC
				CAGGTCTGGGTTCTTCCCCACTGATCACTGTGGAGGGCAAGAAGATGGAGAAATGCAGC[CT]GATGTGCTCTTCAG
67432	IS	[CT]		ATGGGTGGTTCCCACAGCCCCACGTGCCATGGAGGGACATGGAAGG
67435	I		A	GGTTCCCACAGCCCCACGTGCCT
67435	P	A	A	CGCGCCGAGGATGGAGGGACATGGAAGY
67435	P	G	A	ATGACGTGGCAGACGTGGAGGGACATGGAAY
67435	T	A	A	TTTCCTTCCATGTCCCTCCATGGCACGTGGGGCTGTGGGAACCAC
67435	T	G	A	TTTCCTTCCATGTCCCTCCACGGCACGTGGGGCTGTGGGAACCAC
				AGATGGAGAAATGCAGCCGATGTGCTCTTCAGATGGGTGGTTCCCACAGCCCCACGTGCC[AG]TGGAGGGACATGGA
67435	IS	[AG]		AGGAAAGACGATACCATCATCTTCCCAGGCCCTGACTCAAGGCAGC
67439	I		S	CTGCTCTGGAGATGCAGAGGAGAGAATGCAAGTATTTCT
67439	P	T	S	CGCGCCGAGGATGTTTGCTCGTCTCAGY
67439	P	C	S	ATGACGTGGCAGACGTGTTTGCTCGTCTCAGY
67439	T	T	S	ATTTCTGAGACGAGCAAACATGAAATACTTGCATTCTCTCCTCTGCATCTCCAGAGCAGGG
67439	T	C	S	ATTTCTGAGACGAGCAAACACGAAATACTTGCATTCTCTCCTCTGCATCTCCAGAGCAGGG
				GTTGGAAGAGAGAAGGGAAAACTTGTCTGTGCATGTGTACATTTCTGAGACGAGCAAACA[TC]GAAATACTTGCATTC
67439	IS	[TC]		TCTCCTCTGCATCTCCAGAGCAGGGAGGAGCAGGCCAACTGCTCC
67492	I		S	CCCTGTGAGAACATTTCCCCAACATCTGACCATAGAC
67492	P	A	S	CGCGCCGAGGTCCCTACATTACTGAATGGTY
67492	P	T	S	ATGACGTGGCAGACACCCTACATTACTGAATGGTY
67492	T	A	S	AAGAACCATTCAGTAATGTAGGGATCTATGGTCAGATGTTGGGGAAATGTTCTCACAGGGCT
67492	T	T	S	AAGAACCATTCAGTAATGTAGGGTTCTATGGTCAGATGTTGGGGAAATGTTCTCACAGGGCT
				GATGGGGCTGGGTGGGACAGTAACCCCAGGGGCTATCAAGAACCATTCAGTAATGTAGGG[AT]TCTATGGTCAGATG
67492	IS	[AT]		TTGGGGAAATGTTCTCACAGGGCTTCTCAGCACCTTTTCTTGCTGG
67497	I		A	GTGCTAACAGATTAATGATGTATTGTTCCTTCTCCTTAAGTTTTCTACT
67497	P	A	A	CGCGCCGAGGAAAAGAGATTGTGAATGAAGTGY
67497	P	G	A	ATGACGTGGCAGACGAAAGAGATTGTGAATGAAGTGY
67497	T	A	A	ATCTCACTTCATTCACAATCTCTTTTGTAGAAAACTTAAGGAGAAGGAACAATACATCATTAATCTGTTAGCACAT
67497	T	G	A	ATCTCACTTCATTCACAATCTCTTTCGTAGAAAACTTAAGGAGAAGGAACAATACATCATTAATCTGTTAGCACAT
				CAAACAACTGATGTGCTAACAGATTAATGATGTATTGTTCCTTCTCCTTAAGTTTTCTAC[AG]AAAGAGATTGTGAATGA
67497	IS	[AG]		AGTGAGATTACTATTTGTATTAGTTCATTCTTACACTGCTATA
67499	I		S	GGGATGAAAGAGGGCCGCCTCTGAACATCT
67499	P	C	S	ATGACGTGGCAGACGGATCATAGCTCCGGTY
67499	P	T	S	CGCGCCGAGGAGATCATAGCTCCGGTCY
67499	T	C	S	CGCAGACCGGAGCTATGATCCGATGTTCAGAGGCGGCCCTCTTTCATCCCAC
67499	T	T	S	CGCAGACCGGAGCTATGATCTGATGTTCAGAGGCGGCCCTCTTTCATCCCAC
				AAACTCCTGGAACTCAGGGTAAGTGTCAGCTCCAAAGTCACGCAGACCGGAGCTATGATC[CT]GATGTTCAGAGGCG
67499	IS	[CT]		GCCCTCTTTCATCCCACAGTGTGGTCGTTCACTTCATAAATATTGA
67505	I		S	GGGGGCACAGCCCTAGTCAGAACTTTCTT
67505	P	T	S	CGCGCCGAGGAGAATGGGGTCTTGGGY
67505	P	C	S	ATGACGTGGCAGACGGAATGGGGTCTTGGGY
67505	T	T	S	CCTCCCCAAGACCCCATTCTAGAAAGTTCTGACTAGGGCTGTGCCCCCCA
67505	T	C	S	CCTCCCCAAGACCCCATTCCAGAAAGTTCTGACTAGGGCTGTGCCCCCCA
				TTTGAGTGTGGGGGGTGTCCCCAAGGAAGACTCACTTCCTTCCTCCCCAAGACCCCATTC[TC]AGAAAGTTCTGACTA
67505	IS	[TC]		GGGCTGTGCCCCCCAAGACTGGGGGATGCTACCAGGCAGGACAGA
67523	I		A	CAAGAGGAATTAGTATACAGAGAAATTCAAGTGAGATTTTGTCAAAGAATTTT
67523	P	A	A	CGCGCCGAGGACTGACTTTCTCAACAATTCTAY
67523	P	G	A	ATGACGTGGCAGACGCTGACTTTCTCAACAATTCY
67523	T	A	A	TTTCTAGAATTGTTGAGAAAGTCAGTAAATTCTTTGACAAAATCTCACTTGAATTTCTCTGTATACTAATTCCTCTTGTT
67523	T	G	A	TTTCTAGAATTGTTGAGAAAGTCAGCAAATTCTTTGACAAAATCTCACTTGAATTTCTCTGTATACTAATTCCTCTTGTT
				CCACTGAACAAGAGGAATTAGTATACAGAGAAATTCAAGTGAGATTTTGTCAAAGAATTT[AG]CTGACTTTCTCAACAAT
67523	IS	[AG]		TCTAGAAACATATATTTTGATTAGTAATTTTTCTAAAAAGGTG
67573	I		A	GGGAAGGAAGGAAGGAAGGAGGGAGGGAT
67573	P	G	A	ATGACGTGGCAGACGGGAGGGAAGGAAGGAAGGY
67573	P	A	A	CGCGCCGAGGAGGAGGGAAGGAAGGAY
67573	T	G	A	ATCTTCCTTCCTTCCCTCCCTCCCTCCCTCCTTCCTTCCTTCCTTCCCTC
67573	T	A	A	ATCTTCCTTCCTTCCCTCCTTCCCTCCCTCCTTCCTTCCTTCCCTC
				CTCAAAAAAGGAAGGAAGGAAGGAAGGAGGGAGGGAAGGAAGGAAGGAAGGAGGGAGGGA[GA]GGAGGGAAGGAA
67573	IS	[GA]		GGAAGATGAATGTACACTGTACTTCTTATATAACAAGTATATATTATC
67613	I		S	CTCTTGCGCTCCTGTCCGCTGCTTA
67613	P	A	S	CGCGCCGAGGTCTCTCGCGTCCTGY
67613	P	G	S	ATGACGTGGCAGACCCTCTCGCGTCCTGY
67613	T	A	S	CGGACAGGACGCGAGAGAAAGCAGCGGACAGGAGCGCAAGAGGA
67613	T	G	S	CGGACAGGACGCGAGAGGAAGCAGCGGACAGGAGCGCAAGAGGA
				GGAGCGCGAGAGGAAGCAGCGGACAGGACGCGAGAGGAAGCAGCGGACAGGACGCGAGAG[AG]AAGCAGCGGACA
67613	IS	[AG]		GGAGCGCAAGAGGAAAGGTGGGTCACATTCAGACAAGGTCTACAGTTA
67651	I		A	CACACTGTGAGACTGCCATATTTGAACATGAGTTTATACT
67651	P	G	A	ATGACGTGGCAGACGTCCTACATTCAAAAGTACTAGAY
67651	P	A	A	CGCGCCGAGGATCCTACATTCAAAAGTACTAGAGY
67651	T	G	A	AAATCTCTAGTACTTTTGAATGTAGGACGTATAAACTCATGTTCAAATATGGCAGTCTCACAGTGTGGT
67651	T	A	A	AAATCTCTAGTACTTTTGAATGTAGGATGTATAAACTCATGTTCAAATATGGCAGTCTCACAGTGTGGT
				TAATAATAAAAAAAGAAAAACCACACTGTGAGACTGCCATATTTGAACATGAGTTTATAC[GA]TCCTACATTCAAAAGTA
67651	IS	[GA]		CTAGAGATTTAAAAATTAAGCAATTCAGGACACTTGTGTTCAG
67824	I		S	CCCCGAATAGGTTCCTTGATGTCCCTGTACTGTA
67824	P	A	S	CGCGCCGAGGTTGCAGGGACACATTTACY
67824	P	G	S	ATGACGTGGCAGACCTGCAGGGACACATTTACY
67824	T	A	S	ACTTGTAAATGTGTCCCTGCAAACAGTACAGGGACATCAAGGAACCTATTCGGGGCA
67824	T	G	S	ACTTGTAAATGTGTCCCTGCAGACAGTACAGGGACATCAAGGAACCTATTCGGGGCA
				TCTCACAGGGCCCTGAAAGGAGGAGATGCTATTAATCCTACTTGTAAATGTGTCCCTGCA[AG]ACAGTACAGGGACAT
67824	IS	[AG]		CAAGGAACCTATTCGGGGCAAGATGGCCATCCCAAGGAACGCTGC

BTNL2

FIGURE 129D

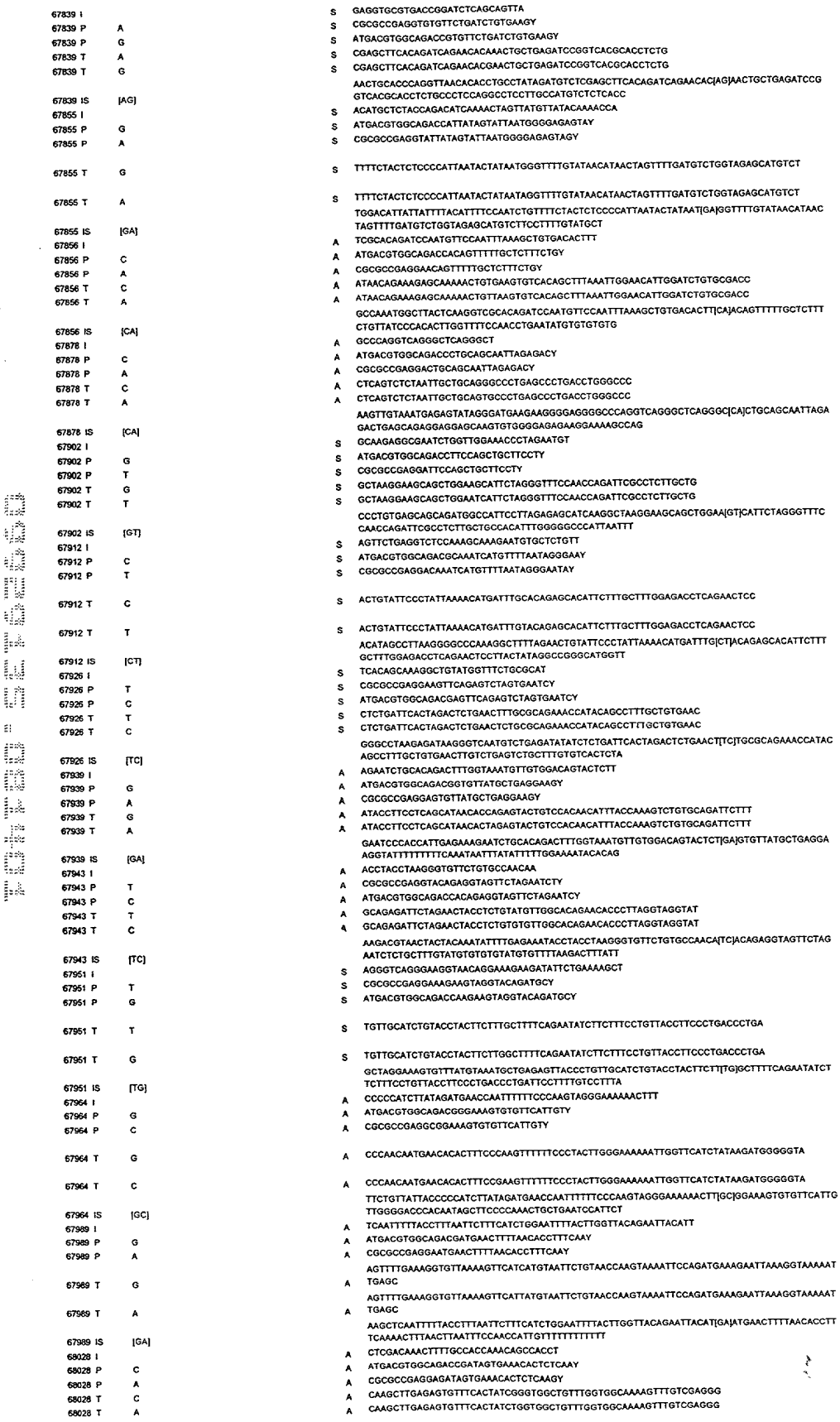

67839 I
67839 P A
67839 P G
67839 T A
67839 T G
67839 IS [AG]
67855 I
67855 P G
67855 P A
67855 T G
67855 T A
67855 IS [GA]
67856 I
67856 P C
67856 P A
67856 T C
67856 T A
67856 IS [CA]
67878 I
67878 P C
67878 P A
67878 T C
67878 T A
67878 IS [CA]
67902 I
67902 P G
67902 P T
67902 T G
67902 T T
67902 IS [GT]
67912 I
67912 P C
67912 P T
67912 T C
67912 T T
67912 IS [CT]
67926 I
67926 P T
67926 P C
67926 T T
67926 T C
67926 IS [TC]
67939 I
67939 P G
67939 P A
67939 T G
67939 T A
67939 IS [GA]
67943 I
67943 P T
67943 P C
67943 T T
67943 T C
67943 IS [TC]
67951 I
67951 P T
67951 P G
67951 T T
67951 T G
67951 IS [TG]
67964 I
67964 P G
67964 P C
67964 T G
67964 T C
67964 IS [GC]
67989 I
67989 P G
67989 P A
67989 T G
67989 T A
67989 IS [GA]
68028 I
68028 P C
68028 P A
68028 T C
68028 T A
S GAGGTGCGTGACCGGATCTCAGCAGTTA
S CGCGCCGAGGTGTGTTCTGATCTGTGAAGY
S ATGACGTGGCAGACCGTGTTCTGATCTGTGAAGY
S CGAGCTTCACAGATCAGAACACAAACTGCTGAGATCCGGTCACGCACCTCTG
S CGAGCTTCACAGATCAGAACACGAACTGCTGAGATCCGGTCACGCACCTCTG
AACTGCACCCAGGTTAACACACCTGCCTATAGATGTCTCGAGCTTCACAGATCAGAACAC[AG]AACTGCTGAGATCCG
GTCACGCACCTCTGCCCTCCAGGCCTCCTTGCCATGTCTCTCACC
S ACATGCTCTACCAGACATCAAAACTAGTTATGTTATACAAAACCA
S ATGACGTGGCAGACCATTATAGTATTAATGGGGAGAGTAY
S CGCGCCGAGGTATTATAGTATTAATGGGGAGAGTAGY
S TTTTCTACTCTCCCCATTAATACTATAATGGGTTTTGTATAACATAACTAGTTTTGATGTCTGGTAGAGCATGTCT
S TTTTCTACTCTCCCCATTAATACTATAATAGGTTTTGTATAACATAACTAGTTTTGATGTCTGGTAGAGCATGTCT
TGGACATTATTATTTTACATTTTCCAATCTGTTTTCTACTCTCCCCATTAATACTATAAT[GA]GGTTTTGTATAACATAAC
TAGTTTTGATGTCTGGTAGAGCATGTCTTCCTTTTGTATGCT
A TCGCACAGATCCAATGTTCCAATTTAAAGCTGTGACACTTT
A ATGACGTGGCAGACCACAGTTTTTGCTCTTTCTGY
A CGCGCCGAGGAACAGTTTTTGCTCTTTCTGY
A ATAACAGAAAGAGCAAAAACTGTGAAGTGTCACAGCTTTAAATTGGAACATTGGATCTGTGCGACC
A ATAACAGAAAGAGCAAAAACTGTTAAGTGTCACAGCTTTAAATTGGAACATTGGATCTGTGCGACC
GCCAAATGGCTTACTCAAGGTCGCACAGATCCAATGTTCCAATTTAAAGCTGTGACACTT[CA]ACAGTTTTTGCTCTTT
CTGTTATCCCACACTTGGTTTTCCAACCTGAATATGTGTGTGTG
A GCCCAGGTCAGGGCTCAGGGCT
A ATGACGTGGCAGACCCTGCAGCAATTAGAGACY
A CGCGCCGAGGACTGCAGCAATTAGAGACY
A CTCAGTCTCTAATTGCTGCAGGGCCCTGAGCCCTGACCTGGGCCC
A CTCAGTCTCTAATTGCTGCAGTGCCCTGAGCCCTGACCTGGGCCC
AAGTTGTAAATGAGAGTATAGGGATGAAGAAGGGGAGGGGCCCAGGTCAGGGCTCAGGGC[CA]CTGCAGCAATTAGA
GACTGAGCAGAGGAGGAGCAAGTGTGGGGAGAGAAGGAAAAGCCAG
S GCAAGAGGCGAATCTGGTTGGAAACCCTAGAATGT
S ATGACGTGGCAGACCTTCCAGCTGCTTCCTY
S CGCGCCGAGGATTCCAGCTGCTTCCTY
S GCTAAGGAAGCAGCTGGAAGCATTCTAGGGTTTCCAACCAGATTCGCCTCTTGCTG
S GCTAAGGAAGCAGCTGGAATCATTCTAGGGTTTCCAACCAGATTCGCCTCTTGCTG
CCCTGTGAGCAGCAGATGGCCATTCCTTAGAGAGCATCAAGGCTAAGGAAGCAGCTGGAA[GT]CATTCTAGGGTTTC
CAACCAGATTCGCCTCTTGCTGCCACATTTGGGGGCCCATTAATTT
S AGTTCTGAGGTCTCCAAAGCAAAGAATGTGCTCTGTT
S ATGACGTGGCAGACGCAAATCATGTTTTAATAGGGAAY
S CGCGCCGAGGACAAATCATGTTTTAATAGGGAATAY
S ACTGTATTCCCTATTAAAACATGATTTGCACAGAGCACATTCTTTGCTTTGGAGACCTCAGAACTCC
S ACTGTATTCCCTATTAAAACATGATTTGTACAGAGCACATTCTTTGCTTTGGAGACCTCAGAACTCC
ACATAGCCTTAAGGGGCCCAAAGGCTTTTAGAACTGTATTCCCTATTAAAACATGATTTG[CT]ACAGAGCACATTCTTT
GCTTTGGAGACCTCAGAACTCCTTACTATAGGCCGGGCATGGTT
S TCACAGCAAAGGCTGTATGGTTTCTGCGCAT
S CGCGCCGAGGAAGTTCAGAGTCTAGTGAATCY
S ATGACGTGGCAGACGAGTTCAGAGTCTAGTGAATCY
S CTCTGATTCACTAGACTCTGAACTTTGCGCAGAAACCATACAGCCTTTGCTGTGAAC
S CTCTGATTCACTAGACTCTGAACTCTGCGCAGAAACCATACAGCCTTTGCTGTGAAC
GGGCCTAAGAGATAAGGGTCAATGTCTGAGATATATCTCTGATTCACTAGACTCTGAACT[TC]TGCGCAGAAACCATAC
AGCCTTTGCTGTGAACTTGTCTGAGTCTGCTTTGTGTCACTCTA
A AGAATCTGCACAGACTTTGGTAAATGTTGTGGACAGTACTCTT
A ATGACGTGGCAGACGGTGTTATGCTGAGGAAGY
A CGCGCCGAGGAGTGTTATGCTGAGGAAGY
A ATACCTTCCTCAGCATAACACCAGAGTACTGTCCACAACATTTACCAAAGTCTGTGCAGATTCTTT
A ATACCTTCCTCAGCATAACACTAGAGTACTGTCCACAACATTTACCAAAGTCTGTGCAGATTCTTT
GAATCCCACCATTGAGAAAGAATCTGCACAGACTTTGGTAAATGTTGTGGACAGTACTCT[GA]GTGTTATGCTGAGGA
AGGTATTTTTTTTTCAAATAATTTATATTTTTGGAAAATACACAG
A ACCTACCTAAGGGTGTTCTGTGCCAACAA
A CGCGCCGAGGTACAGAGGTAGTTCTAGAATCTY
A ATGACGTGGCAGACCACAGAGGTAGTTCTAGAATCY
A GCAGAGATTCTAGAACTACCTCTGTATGTTGGCACAGAACACCCTTAGGTAGGTAT
A GCAGAGATTCTAGAACTACCTCTGTGTGTTGGCACAGAACACCCTTAGGTAGGTAT
AAGACGTAACTACTACAAATATTTTGAGAAATACCTACCTAAGGGTGTTCTGTGCCAACA[TC]ACAGAGGTAGTTCTAG
AATCTCTGCTTTGTATGTGTGTGTATGTGTTTTAAGACTTTATT
S AGGGTCAGGGAAGGTAACAGGAAAGAAGATATTCTGAAAAGCT
S CGCGCCGAGGAAAGAAGTAGGTACAGATGCY
S ATGACGTGGCAGACCAAGAAGTAGGTACAGATGCY
S TGTTGCATCTGTACCTACTTCTTTGCTTTTCAGAATATCTTCTTTCCTGTTACCTTCCCTGACCCTGA
S TGTTGCATCTGTACCTACTTCTTGGCTTTTCAGAATATCTTCTTTCCTGTTACCTTCCCTGACCCTGA
GCTAGGAAAGTGTTTATGTAAATGCTGAGAGTTACCCTGTTGCATCTGTACCTACTTCTT[TG]GCTTTTCAGAATATCT
TCTTTCCTGTTACCTTCCCTGACCCTGATTCCTTTTGTCCTTTA
A CCCCCATCTTATAGATGAACCAATTTTTTTCCCAAGTAGGGAAAAAACTTT
A ATGACGTGGCAGACGGGAAAGTGTGTTCATTGTY
A CGCGCCGAGGCGGAAAGTGTGTTCATTGTY
A CCCAACAATGAACACACTTTCCCAAGTTTTTTCCCTACTTGGGAAAAAATTGGTTCATCTATAAGATGGGGGTA
A CCCAACAATGAACACACTTTCCGAAGTTTTTTCCCTACTTGGGAAAAAATTGGTTCATCTATAAGATGGGGGTA
TTCTGTTATTACCCCCATCTTATAGATGAACCAATTTTTTCCCAAGTAGGGAAAAAACTT[GC]GGAAAGTGTGTTCATTG
TTGGGGACCCACAATAGCTTCCCCAAACTGCTGAATCCATTCT
A TCAATTTTTACCTTTAATTCTTTCATCTGGAATTTTACTTGGTTACAGAATTACATT
A ATGACGTGGCAGACGATGAACTTTTAACACCTTTCAAY
A CGCGCCGAGGAATGAACTTTTAACACCTTTCAAY
A TGAGC
A TGAGC
AAGCTCAATTTTTACCTTTAATTCTTTCATCTGGAATTTTACTTGGTTACAGAATTACAT[GA]ATGAACTTTTAACACCTT
TCAAAACTTTAACTTAATTTCCAACCATTGTTTTTTTTTTT
A CTCGACAAACTTTTGCCACCAAACAGCCACCT
A ATGACGTGGCAGACCGATAGTGAAACACTCTCAAY
A CGCGCCGAGGAGATAGTGAAACACTCTCAAGY
A CAAGCTTGAGAGTGTTTCACTATCGGGTGGCTGTTTGGTGGCAAAAGTTTGTCGAGGG
A CAAGCTTGAGAGTGTTTCACTATCTGGTGGCTGTTTGGTGGCAAAAGTTTGTCGAGGG

FIGURE 129D

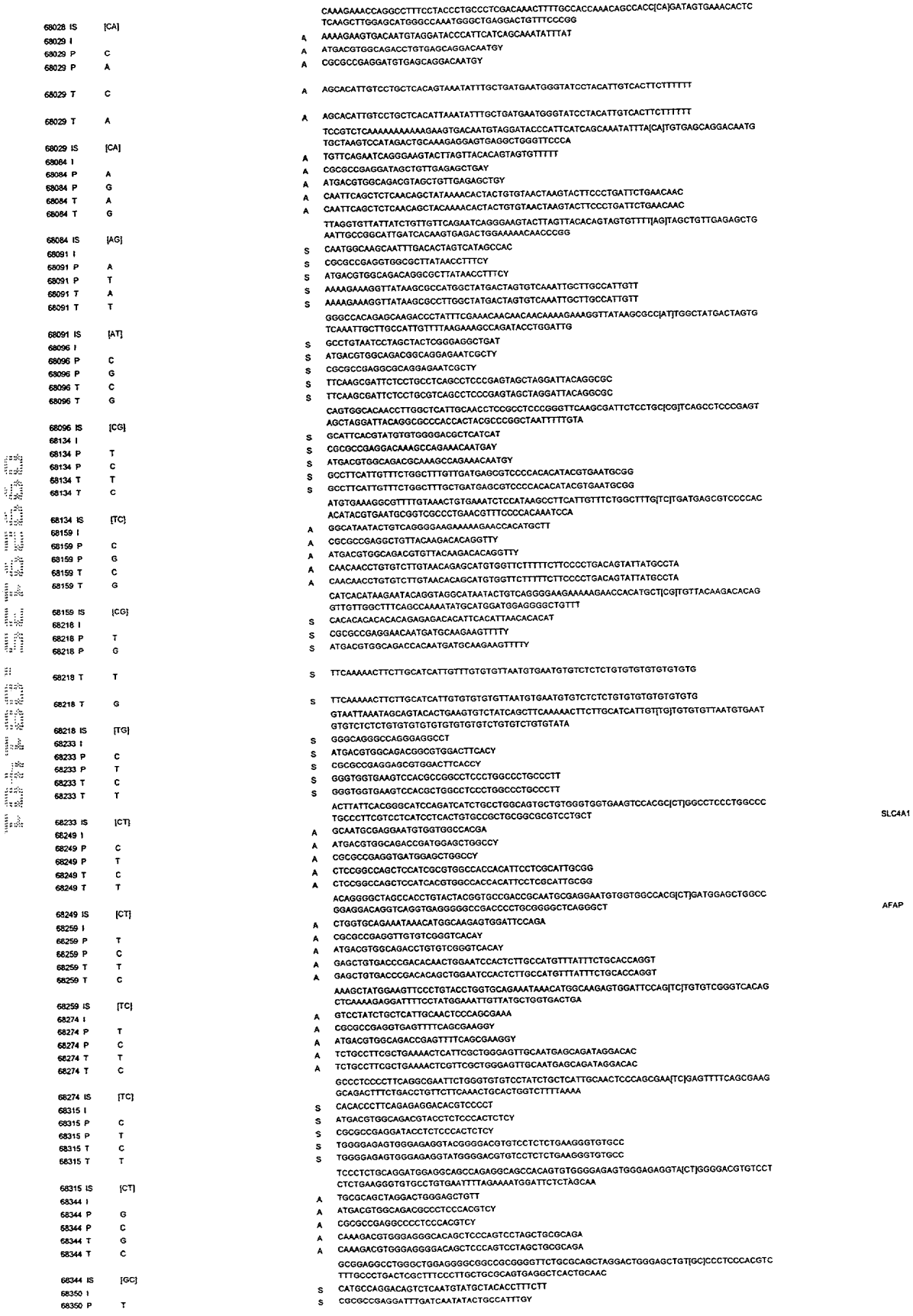


FIGURE 129D

68350 P C
S ATGACGTGGCAGACGTTTGATCAATATACTGCCATTTY

68350 T T
S AGTGCAAATGGCAGTATATTGATCAAATAGAAAGGTGTAGCATACATTGAGACTGTCCTGGCATGCA

68350 T C
S AGTGCAAATGGCAGTATATTGATCAAACAGAAAGGTGTAGCATACATTGAGACTGTCCTGGCATGCA

68350 IS [TC]
TTCCAGAAACTCCTCAATACATGGGGACAGTAAAGTGCAAATGGCAGTATATTGATCAAA[TC]AGAAAGGTGTAGCATA

68361 I
CATTGAGACTGTCCTGGCATGCATAGTTAACTTAATGATTTGTT
S AGCTGGGAACAGATTAACTAGGTTGCTAAAGGAACAAATATTTCTTCCT

68361 P C
S ATGACGTGGCAGACGTGCACTGAAGACAGGY

68361 P T
S CGCGCCGAGGATGCACTGAAGACAGGY

68361 T C
S CCTGCCTGTCTTCAGTGCACGGAAGAAATATTTGTTCCTTTAGCAACCTAGTTAATCTGTTCCCAGCTGA

68361 T T
S CCTGCCTGTCTTCAGTGCATGGAAGAAATATTTGTTCCTTTAGCAACCTAGTTAATCTGTTCCCAGCTGA

68361 IS [CT]
GAGCTTAACCTCTCCACTGCAGGTACGTTATCTGTTGTCTTCCTGCCTGTCTTCAGTGCA[CT]GGAAGAAATATTTGTT
CCTTTAGCAACCTAGTTAATCTGTTCCCAGCTGAAGCCCGTCAG

68370 I
A TGATGAAAGGTAAAATACTAATGGTGCTATATAAACATGACATTCTCTAAATTGAATAC

68370 P G
A ATGACGTGGCAGACGAGTGTGCAATTTTCATGGY

68370 P T
A CGCGCCGAGGTAGTGTGCAATTTTCATGGY

68370 T G
AAAGCCATGAAAATTGCACACTCTATTCAATTTAGAGAATGTCATGTTTATATAGCACCATTAGTATTTTACCTTTCATC
A ATG

68370 T T
AAAGCCATGAAAATTGCACACTATATTCAATTTAGAGAATGTCATGTTTATATAGCACCATTAGTATTTTACCTTTCATC
A ATG

68370 IS [GT]
CATGATGAAAGGTAAAATACTAATGGTGCTATATAAACATGACATTCTCTAAATTGAATA[GT]AGTGTGCAATTTTCATG
GCTTTGTTTTAAAATTTAATGCTTGAGAATAATCATTTTATTT

68386 I
A CTTCTGAGTAGCCATCAAACTAAATTCTTCAAATTGCAGAGC

68386 P A
A CGCGCCGAGGATGTTAATCTTCAAGCTAAAGTTTTY

68386 P T
A ATGACGTGGCAGACTTGTTAATCTTCAAGCTAAAGTTTY

68386 T A
A CTAAAAAACTTTAGCTTGAAGATTAACATCTCTGCAATTTGAAGAATTTAGTTTGATGGCTACTCAGAAGAT

68386 T T
A CTAAAAAACTTTAGCTTGAAGATTAACAACTCTGCAATTTGAAGAATTTAGTTTGATGGCTACTCAGAAGAT

68386 IS [AT]
GTGAAATTACTTACTGAATCTTCTGAGTAGCCATCAAACTAAATTCTTCAAATTGCAGAG[AT]TGTTAATCTTCAAGCTA
AAGTTTTTTAGGTTTATTTAAAGCAAAATTAAAATTGAAACAA

68390 I
S AAATAGATTGATTTTAGATGATTGTTCATCCACACCATTTTATATAGATACTAGTATTAAT

68390 P C
S ATGACGTGGCAGACGATCAAAAGCTTCCTCTTCCY

68390 P G
S CGCGCCGAGGCATCAAAAGCTTCCTCTTCCY

68390 T C
CTGAGGAAGAGGAAGCTTTTGATCTTAATACTAGTATCTATATAAAATGGTGTGGATGAACAATCATCTAAAATCAATCT
S ATTT

68390 T G
CTGAGGAAGAGGAAGCTTTTGATGTTAATACTAGTATCTATATAAAATGGTGTGGATGAACAATCATCTAAAATCAATC
S TATTT

68390 IS [CG]
TTTAATCATTATTGGATCATCTAAAGTAGAAGCTGTCCTGAGGAAGAGGAAGCTTTTGAT[CG]TTAATACTAGTATCTAT
ATAAAATGGTGTGGATGAACAATCATCTAAAATCAATCTATTT

68399 I
S GGGATATACCAGGTAGGTTACCTGATGAAAATATGCTTT

68399 P T
S CGCGCCGAGGAGCCAACAATCCTATGTACY

68399 P C
S ATGACGTGGCAGACGGCCAACAATCCTATGTACY

68399 T T
S GGTTGTACATAGGATTGTTGGCTAAGCATATTTTCATCAGGTAACCTACCTGGTATATCCCAT

68399 T C
S GGTTGTACATAGGATTGTTGGCCAAGCATATTTTCATCAGGTAACCTACCTGGTATATCCCAT

68399 IS [TC]
CAAAAGTAAGCAGAGAAGTCTCTGTTCCCTATAACAGAGGTTGTACATAGGATTGTTGGC[TC]AAGCATATTTTCATCA
GGTAACCTACCTGGTATATCCCATTCATGAAGTGCACAGGTATA

68407 I
S TGTTTTGCCTCATCGTGTGCTAGGAAATAATGCAGAAAAAACTC

68407 P A
S CGCGCCGAGGTATGAAAACATTCAATGTAGAAGACY

68407 P T
S ATGACGTGGCAGACAATGAAAACATTCAATGTAGAAGAY

68407 T A
S AAAAGTCTTCTACATTGAATGTTTTCATAAGTTTTTTCTGCATTATTTCCTAGCACACGATGAGGCAAAACATT

68407 T T
S AAAAGTCTTCTACATTGAATGTTTTCATTAGTTTTTTCTGCATTATTTCCTAGCACACGATGAGGCAAAACATT

68407 IS [AT]
CTTTCCTTCATTAAATTCTCTGATATTTTCCTAAAAGTCTTCTACATTGAATGTTTTCAT[AT]AGTTTTTTCTGCATTATTT
CCTAGCACACGATGAGGCAAAACATTTTACTGAAAACCCTG

68450 I
A GAGGAATTACGGGACATAACAAGGATCCATGCAAGTTTCAT

68450 P A
A CGCGCCGAGGACTCAAAAGTTGGGTTAATAATTGY

68450 P G
A ATGACGTGGCAGACGCTCAAAAGTTGGGTTAATAATY

68450 T A
A TAAGCAATTATTAACCCAACTTTTGAGTTGAAACTTGCATGGATCCTTGTTATGTCCCGTAATTCCTCTG

68450 T G
A TAAGCAATTATTAACCCAACTTTTGAGCTGAAACTTGCATGGATCCTTGTTATGTCCCGTAATTCCTCTG

68450 IS [AG]
AAAATAAATTCCTTGATTCAGAGGAATTACGGGACATAACAAGGATCCATGCAAGTTTCA[AG]CTCAAAAGTTGGGTTA
ATAATTGCTTAGAAATGCAGGTAGAAGCTCCACATCTATCACAA

68452 I
S CAAAGCAGCAGGGAGGGGCCTGTTGT

68452 P T
S CGCGCCGAGGACCAGTGTGGAAGGGY

68452 P C
S ATGACGTGGCAGACGCCAGTGTGGAAGGGY

68452 T T
S AGTGCCCTTCCACACTGGTCAACAGGCCCCTCCCTGCTGCTTTGGA

68452 T C
S AGTGCCCTTCCACACTGGCCAACAGGCCCCTCCCTGCTGCTTTGGA

68452 IS [TC]
GGCTTCAACTCTGTTCTGCAGATTCTCCTTCAGTAAATTGGGAGTGCCCTTCCACACTGG[TC]CAACAGGCCCCTCCC
TGCTGCTTTGGATCACCACCTTAAGTCAAACACAATTCAAGTGCC

68586 I
S GCATTTTCTGCTCGCGGTGATAATGTAAAATTTTAAATTTGCTTAAATAACACTTCTA

68586 P A
S CGCGCCGAGGTATATTTCTAAAAGCCTCAAACTTCY

68586 P G
S ATGACGTGGCAGACCATATTTCTAAAAGCCTCAAACTTY

68586 T A
TTTGGAAGTTTGAGGCTTTTAGAAATATAAGAAGTGTTATTTAAGCAAATTTAAAATTTTACATTATCACCGCGAGCAGA
S AAATGCAA

68586 T G
TTTGGAAGTTTGAGGCTTTTAGAAATATGAGAAGTGTTATTTAAGCAAATTTAAAATTTTACATTATCACCGCGAGCAGA
S AAATGCAA

68586 IS [AG]
AAGTTATGGAATCCATATTAGGAAAATTCAAGTTTGGAAGTTTGAGGCTTTTAGAAATAT[AG]AGAAGTGTTATTTAAGC
AAATTTAAAATTTTACATTATCACCGCGAGCAGAAAATGCAAG

68736 I
A TGAACTTCAATGCTTCTCTCCTCCCTGAAAGGACGT

68736 P A
A CGCGCCGAGGATGTCTTATAGTCTCCCTAGTTY

68736 P G
A ATGACGTGGCAGACGTGTCTTATAGTCTCCCTAGTY

68736 T A
A GCTAAACTAGGGAGACTATAAGACATCGTCCTTTCAGGGAGGAGAGAAGCATTGAAGTTCAGT

68736 T G
A GCTAAACTAGGGAGACTATAAGACACCGTCCTTTCAGGGAGGAGAGAAGCATTGAAGTTCAGT

68736 IS [AG]
CCTATATTTCATCATATCAACTCACTGAACTTCAATGCTTCTCTCCTCCCTGAAAGGACG[AG]TGTCTTATAGTCTCCCT
AGTTTAGCATCTAAGTTTCCACAAAGGCTTCCAAAACCTCTTG

68744 I
S GGGGTGGCTCTAGAGAGCAAATGGTCAAAACTTCTAGA

68744 P G
S ATGACGTGGCAGACCGCTAAATAGAGCTTTAACATGY

68744 P A
S CGCGCCGAGGTGCTAAATAGAGCTTTAACATGTY

68744 T G
S TGAGACATGTTAAAGCTCTATTTAGCGCTAGAAGTTTTGACCATTTGCTCTCTAGAGCCACCCCAT

68744 T A
S TGAGACATGTTAAAGCTCTATTTAGCACTAGAAGTTTTGACCATTTGCTCTCTAGAGCCACCCCAT

68744 IS [GA]
AAGCCATCTGAGGCTTCTCTATTTTGCTAGTATCTGAGACATGTTAAAGCTCTATTTAGC[GA]CTAGAAGTTTTGACCA
TTTGCTCTCTAGAGCCACCCCATCTGCTCTGGAGCCTGTGGAGG

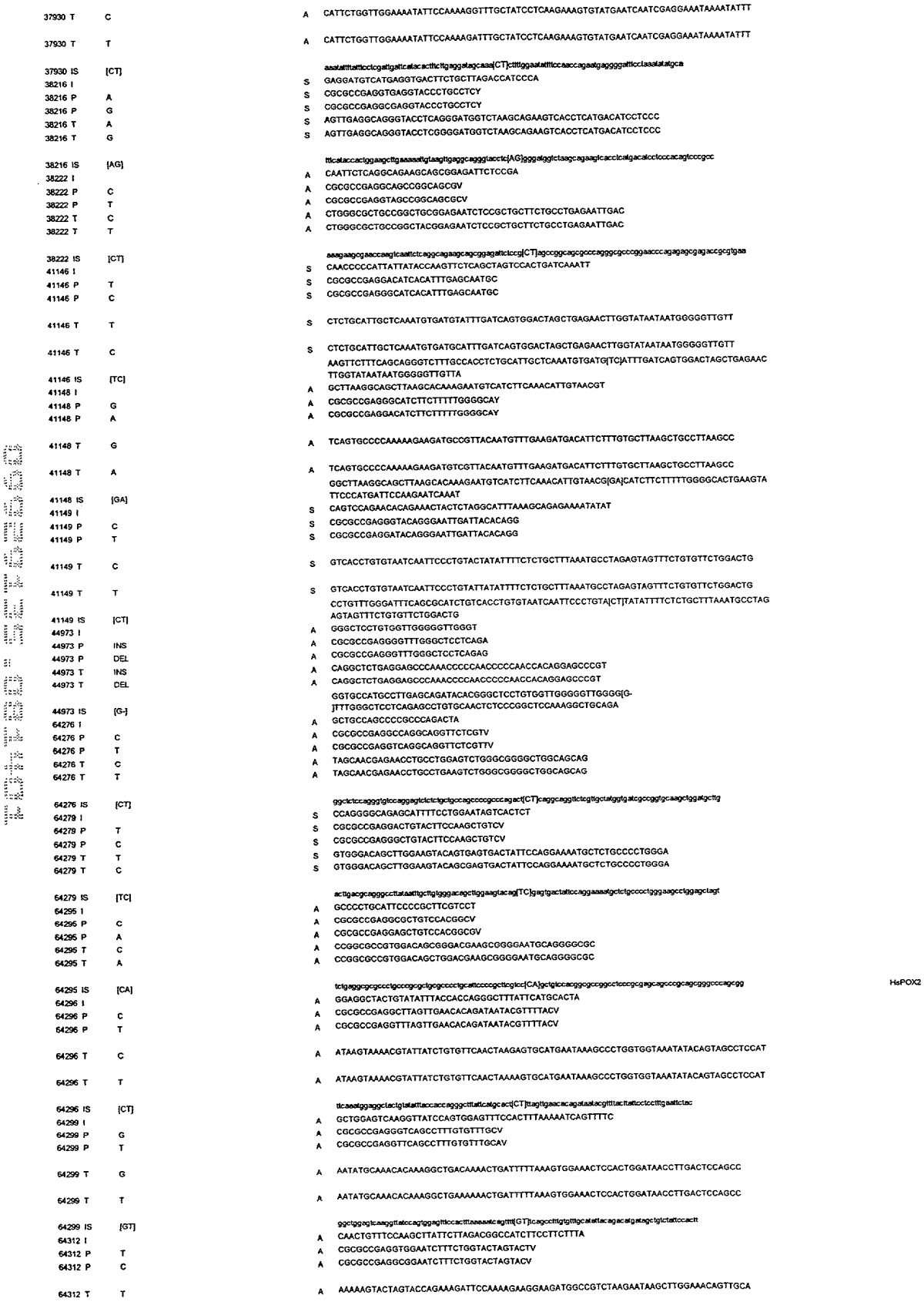
68763 I
S TGACGGGCCACTCCCAACCATTCCTTT

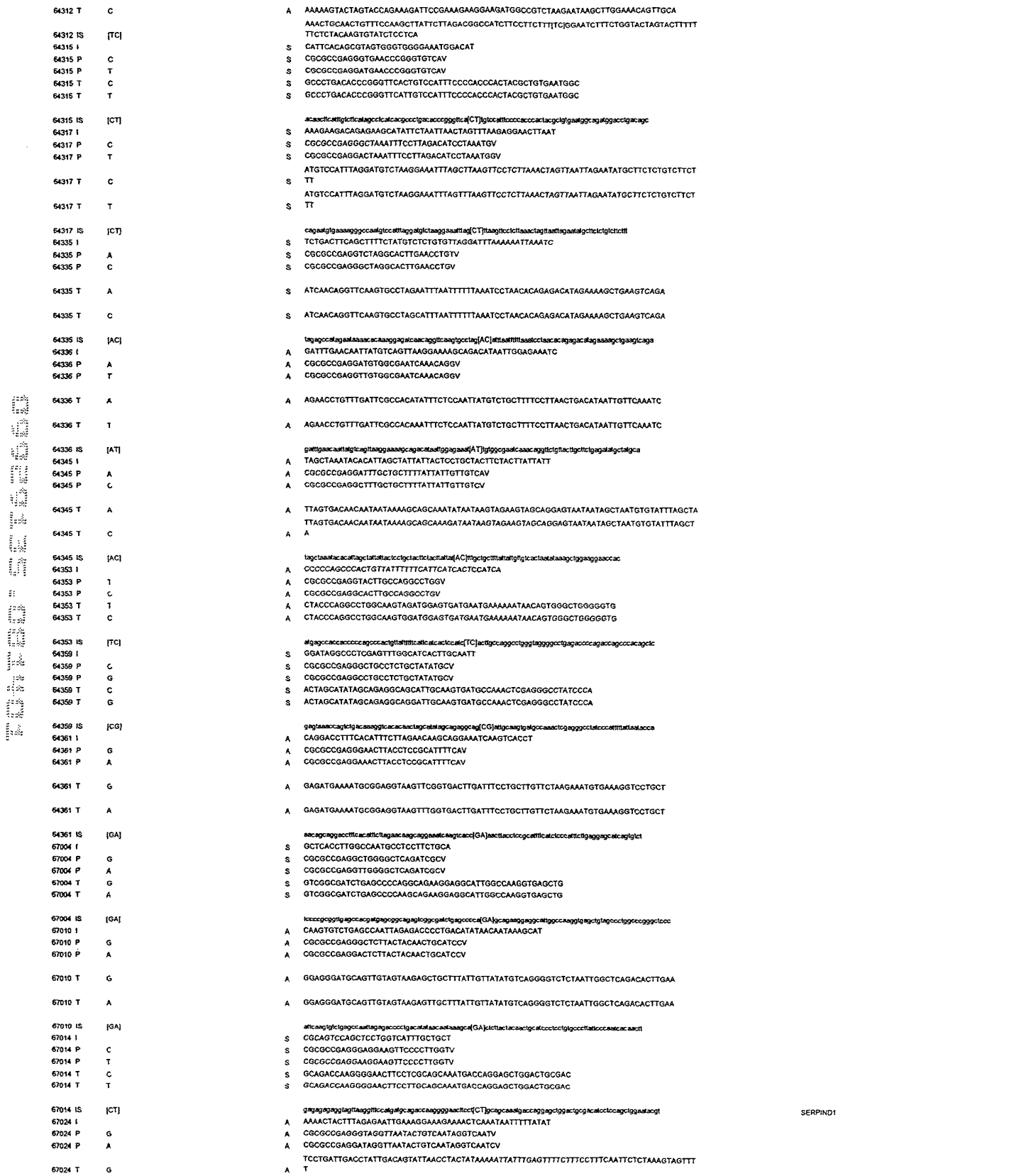
FLJ21439

FIGURE 129D

68763 P	C	S	ATGACGTGGCAGACGTACTACCCTAGGTCTTCAAY	
68763 P	T	S	CGCGCCGAGGATACTACCCTAGGTCTTCAAAY	
68763 T	C	S	TACCTTTGAAGACCTAGGGTAGTACAAGGAATGGTTGGGAGTGGCCCGTCAGG	
68763 T	T	S	TACCTTTGAAGACCTAGGGTAGTATAAGGAATGGTTGGGAGTGGCCCGTCAGG	
			TGGCATTCATCTTCAATAATGTAAGTGTATGTGCATTACCTTTGAAGACCTAGGGTAGTA[CT]AAGGAATGGTTGGGAG	
68763 IS	[CT]		TGGCCCGTCAGGACTAATCTCCTCTACCTGCAGTGTCCCAGGAC	
68833 I		A	CCACTGGAAATGAAGGGGCCCTATAGCTTCTGAGC	
68833 P	T	A	CGCGCCGAGGTTCATCCAGTGAGGAGTAAY	
68833 P	G	A	ATGACGTGGCAGACGTCATCCAGTGAGGAGTAY	
68833 T	T	A	AATATTACTCCTCACTGGATGAACTCAGAAGCTATAGGGCCCCTTCATTTCCAGTGGCT	
68833 T	G	A	AATATTACTCCTCACTGGATGACCTCAGAAGCTATAGGGCCCCTTCATTTCCAGTGGCT	
			TATAATGATAAAACTTCAGATATCAGCCACTGGAAATGAAGGGGCCCTATAGCTTCTGAG[TG]TCATCCAGTGAGGAG	
68833 IS	[TG]		TAATATTAAAAATAATAATGATTATCACTTATTGGATATCTATGA	
68889 I		A	GCCCATTTGAAATAGCAGTGGATTAAGACTTGCTTTTCAAGCTTAAAATT	
68889 P	G	A	ATGACGTGGCAGACGTTCTGTATATGTGACATGATACAY	
68889 P	A	A	CGCGCCGAGGATTCTGTATATGTGACATGATACAY	
68889 T	G	A	CTATTGTATCATGTCACATATACAGAACATTTTAAGCTTGAAAAGCAAGTCTTAATCCACTGCTATTTCAAATGGGCTG	
68889 T	A	A	CTATTGTATCATGTCACATATACAGAATATTTTAAGCTTGAAAAGCAAGTCTTAATCCACTGCTATTTCAAATGGGCTG	
			AATTTTATACAGCCCATTTGAAATAGCAGTGGATTAAGACTTGCTTTTCAAGCTTAAAAT[GA]TTCTGTATATGTGACAT	
68889 IS	[GA]		GATACAATAGAAGCAGTTCTCAGTGTATAAATGCTGTTTAAAA	
68906 I		A	ACAGTGCTCATCTGGTCAATGATTTTATCTGTGGAGGTCTT	
68906 P	A	A	CGCGCCGAGGATTGGGTGCCATGTTGY	
68906 P	G	A	ATGACGTGGCAGACGTTGGGTGCCATGTTGY	
68906 T	A	A	ATCCCAACATGGCACCCAATAGACCTCCACAGATAAAATCATTGACCAGATGAGCACTGTGA	
68906 T	G	A	ATCCCAACATGGCACCCAACAGACCTCCACAGATAAAATCATTGACCAGATGAGCACTGTGA	
			TCTGCCTACCGCAACGACTCACAGTGCTCATCTGGTCAATGATTTTATCTGTGGAGGTCT[AG]TTGGGTGCCATGTTG	
68906 IS	[AG]		GGATTCTTGTTTTTTCCAATTAATGTTGTAAAAACTCGCATACAG	
68924 I		A	GAGGTGTTTGGTGGAAGGCTCTCTTTCTCAGCA	
68924 P	C	A	ATGACGTGGCAGACCTCTGAGAGGTTTATCACACY	
68924 P	T	A	CGCGCCGAGGTTCTGAGAGGTTTATCACACY	
68924 T	C	A	ATCAGTGTGATAAACCTCTCAGAGGCTGAGAAAGAGAGCCTTCCACCAAACACCTCAC	
68924 T	T	A	ATCAGTGTGATAAACCTCTCAGAAGCTGAGAAAGAGAGCCTTCCACCAAACACCTCAC	
			TGACTGAGGGAGGTTGGAGTGTACAAGTGAGGTGTTTGGTGGAAGGCTCTCTTTCTCAGC[CT]TCTGAGAGGTTTAT	
68924 IS	[CT]		CACACTGATATCTTCATTGGACCTAGCTGGCCTGTCAGATTCCAAC	
68932 I		S	ACTGCTACTGTTTTTGGCTGCATGGCATTGAACTTCC	
68932 P	T	S	CGCGCCGAGGAGGCTCTGTGTTTGGAY	
68932 P	A	S	ATGACGTGGCAGACTGGCTCTGTGTTTGGAY	
68932 T	T	S	CATTTCCAAACACAGAGCCTGAAGTTCAATGCCATGCAGCCAAAAACAGTAGCAGTAG	
68932 T	A	S	CATTTCCAAACACAGAGCCAGAAGTTCAATGCCATGCAGCCAAAAACAGTAGCAGTAG	
			GTGGGCTTTGTCTCACATTTTGGAAATGTCATAAGATATGACATTTCCAAACACAGAGCC[TA]GAAGTTCAATGCCATG	
68932 IS	[TA]		CAGCCAAAAACAGTAGCAGTAGTAGTAGTAGTAGTAGTAGT	
68941 I		S	ACTGAATCCTTAAGACTTCTGACTTCCCTAAGACAGACTTGAAACTA	
68941 P	A	S	CGCGCCGAGGTAATATTGCAAATTGTCTCATCATY	
68941 P	G	S	ATGACGTGGCAGACCAATATTGCAAATTGTCTCATCAY	
68941 T	A	S	TAAAATGATGAGACAATTTGCAATATTAAGTTTCAAGTCTGTCTTAGGGAAGTCAGAAGTCTTAAGGATTCAGTGG	
68941 T	G	S	TAAAATGATGAGACAATTTGCAATATTGAGTTTCAAGTCTGTCTTAGGGAAGTCAGAAGTCTTAAGGATTCAGTGG	
			AAAGGCAAATTTTGAAAATTATATGTAGGACTTTAAAATGATGAGACAATTTGCAATATT[AG]AGTTTCAAGTCTGTCTT	
68941 IS	[AG]		AGGGAAGTCAGAAGTCTTAAGGATTCAGTGGTGGAGTGGTGTT	
69056 I		A	TGAACTGCTCTTAAGGAGTATGACCCGCCTCTGTATTCT	
69056 P	G	A	ATGACGTGGCAGACGGCCCAGAAAATTCCATY	
69056 P	A	A	CGCGCCGAGGAGCCCAGAAAATTCCATCY	
69056 T	G	A	CCAAGATGGAATTTTCTGGGCCGAATACAGAGGCGGGTCATACTCCTTAAGAGCAGTTCAGA	
69056 T	A	A	CCAAGATGGAATTTTCTGGGCTGAATACAGAGGCGGGTCATACTCCTTAAGAGCAGTTCAGA	
			GTCAATAGGCTTGATCATCATCTGAACTGCTCTTAAGGAGTATGACCCGCCTCTGTATTC[GA]GCCCAGAAAATTCCAT	
69056 IS	[GA]		CTTGGTGCTTGCTTCTGTAATGGCCTCCTCTGTACCATACTCCA	ANGPTL1
69065 I		S	ACTGGCAGAACCTAGGATTGCATTAGTCTATCTGGCTT	
69065 P	G	S	CGCGCCGAGGCTGCCTCTCATTTTACACTY	
69065 P	C	S	ATGACGTGGCAGACGTGCCTCTCATTTTACACTY	
69065 T	G	S	AGTCAGTGTAAAATGAGAGGCAGAGCCAGATAGACTAATGCAATCCTAGGTTCTGCCAGTTG	
69065 T	C	S	AGTCAGTGTAAAATGAGAGGCACAGCCAGATAGACTAATGCAATCCTAGGTTCTGCCAGTTG	
			GAAAAATAAGAATCAATGTTGGATTCTGTATATTGGTCAGTCAGTGTAAAATGAGAGGCA[GC]AGCCAGATAGACTAAT	
69065 IS	[GC]		GCAATCCTAGGTTCTGCCAGTTGTAATCAAGGATTCCATCTTTT	
69112 I		A	GGTGCAAGCGTAAATGTCCTTTTCCTTGGT	
69112 P	A	A	CGCGCCGAGGACTGTCTTTACCGAATGACY	
69112 P	G	A	ATGACGTGGCAGACGCTGTCTTTACCGAATGAY	
69112 T	A	A	TCATGTCATTCGGTAAAGACAGTCCAAGGAAAAAGGACATTTACGCTTGCACCTT	
69112 T	G	A	TCATGTCATTCGGTAAAGACAGCCCAAGGAAAAAGGACATTTACGCTTGCACCTT	
			CAGAAATGTGTTAGTCTGCAAAGCAAATAAGGTGCAAGCGTAAATGTCCTTTTTCCTTGG[AG]CTGTCTTTACCGAATG	
69112 IS	[AG]		ACATGAGCTTCACACCCTTGCCTTGAGCTGTCACTATCATTGCT	
69114 I		A	AATGAGGACTCATATGGGTCGTGTGGTCAC	
69114 P	T	A	CGCGCCGAGGTGTTTGTTTCAAGGGCTTY	
69114 P	A	A	ATGACGTGGCAGACAGTTTGTTTCAAGGGCTTY	
69114 T	T	A	GGGAAAGCCCTTGAAACAAACATGACCACACGACCCATATGAGTCCTCATTGT	
69114 T	A	A	GGGAAAGCCCTTGAAACAAACTTGACCACACGACCCATATGAGTCCTCATTGT	
			GGAATTGTGGGTGCTTGGGGAAAAACATTACAATGAGGACTCATATGGGTCGTGTGGTCA[TA]GTTTGTTTCAAGGGC	
69114 IS	[TA]		TTTCCCTTCCAAAACTGGAAAAGAAAACTGATAAAACAAACATTG	
69128 I		S	AGCTGGGTGTCTGCTTCCCACTTTCCATCA	
69128 P	A	S	CGCGCCGAGGTCTCAGCCTCTGCATTAY	
69128 P	G	S	ATGACGTGGCAGACCCTCAGCCTCTGCATY	
69128 T	A	S	ATTCTAATGCAGAGGCTGAGAGATGGAAAGTGGGAAGCAGACACCCAGCTGA	
69128 T	G	S	ATTCTAATGCAGAGGCTGAGGGATGGAAAGTGGGAAGCAGACACCCAGCTGA	
			TATGTCTGCTAGGAGATAGGCTCCGTGCAGGATCAAAGAAATTCTAATGCAGAGGCTGAG[AG]GATGGAAAGTGGGA	
69128 IS	[AG]		AGCAGACACCCAGCTGAAGGATAATGGTAAAGAACCACCTACAGCT	
69129 I		S	TCACACACTGATCTCCCCCTTTTTATAGGTACTCAATATTTATAAATGT	
69129 P	C	S	ATGACGTGGCAGACGGCAGAAGGATCTTTGCY	
69129 P	T	S	CGCGCCGAGGAGCAGAAGGATCTTTGCY	
69129 T	C	S	AAAGGCAAAGATCCTTCTGCCCATTTATAAATATTGAGTACCTATAAAAAGGGGGAGATCAGTGTGTGAAA	
69129 T	T	S	AAAGGCAAAGATCCTTCTGCTCATTTATAAATATTGAGTACCTATAAAAAGGGGGAGATCAGTGTGTGAAA	
			AGAATACACGTTTACCAAATTTGTCTGTAGTAGGAAAGGTAAAGGCAAAGATCCTTCTGC[CT]CATTTATAAATATTGAG	
69129 IS	[CT]		TACCTATAAAAAGGGGGAGATCAGTGTGTGAAAAATGCATTAG	
37930 I		A	AAATATTTTATTTCCTCGATTGATTCATACACTTTCTTGAGGATAGCAAAA	
37930 P	C	A	CGCGCCGAGGCCTTTTGGAATATTTTCCAACCAGV	
37930 P	T	A	CGCGCCGAGGTCTTTTGGAATATTTTCCAACCAGV	

FIGURE 129D


37930 T C A CATTCTGGTTGGAAAATATTCCAAAAGGTTTGCTATCCTCAAGAAAGTGTATGAATCAATCGAGGAAATAAAATATTT
37930 T T A CATTCTGGTTGGAAAATATTCCAAAAGATTTGCTATCCTCAAGAAAGTGTATGAATCAATCGAGGAAATAAAATATTT
37930 IS [CT] aaatatttattcctcgatgattcatacacttcttgtaggatagcaaa[CT]cttttggaatatttccaaccagaatgaggggatttcctaaaatatgcta
38216 I S GAGGATGTCATGAGGTGACTTCTGCTTAGACCATCCCA
38216 P A S CGCGCCGAGGTGAGGTACCCTGCCTCY
38216 P G S CGCGCCGAGGCGAGGTACCCTGCCTCY
38216 T A S AGTTGAGGCAGGGTACCTCAGGGATGGTCTAAGCAGAAGTCACCTCATGACATCCTCCC
38216 T G S AGTTGAGGCAGGGTACCTCGGGGATGGTCTAAGCAGAAGTCACCTCATGACATCCTCCC
38216 IS [AG] ttcatacccactggaagcttgaaaaatgtaagtgaggcagggtacctc[AG]gggatggtctaagcagaagtcacctcatgacatcctcccacagtcccgcc
38222 I A CAATTCTCAGGCAGAAGCAGCGGAGATTCTCCGA
38222 P C A CGCGCCGAGGCAGCCGGCAGCGV
38222 P T A CGCGCCGAGGTAGCCGGCAGCGCV
38222 T C A CTGGGCGCTGCCGGCTGCGGAGAATCTCCGCTGCTTCTGCCTGAGAATTGAC
38222 T T A CTGGGCGCTGCCGGCTACGGAGAATCTCCGCTGCTTCTGCCTGAGAATTGAC
38222 IS [CT] aaagaagcgaaccaagtcaattctcaggcagaagcagcggagattctccg[CT]agccggcagcgcccagggcgcccggaacccagagagcgagaccgcgtgaa
41146 I S CAACCCCCATTATTATACCAAGTTCTCAGCTAGTCCACTGATCAAATT
41146 P T S CGCGCCGAGGACATCACATTTGAGCAATGC
41146 P C S CGCGCCGAGGGCATCACATTTGAGCAATGC
41146 T T S CTCTGCATTGCTCAAATGTGATGTATTTGATCAGTGGACTAGCTGAGAACTTGGTATAATAATGGGGGTTGTT
41146 T C S CTCTGCATTGCTCAAATGTGATGCATTTGATCAGTGGACTAGCTGAGAACTTGGTATAATAATGGGGGTTGTT
41146 IS [TC] AAGTTCTTTCAGCAGGGTCTTTGCCACCTCTGCATTGCTCAAATGTGATG[TC]ATTTGATCAGTGGACTAGCTGAGAAC TTGGTATAATAATGGGGGTTGTTA
41148 I A GCTTAAGGCAGCTTAAGCACAAAGAATGTCATCTTCAAACATTGTAACGT
41148 P G A CGCGCCGAGGGCATCTTCTTTTTGGGGCAY
41148 P A A CGCGCCGAGGACATCTTCTTTTTGGGGCAY
41148 T G A TCAGTGCCCCAAAAAGAAGATGCCGTTACAATGTTTGAAGATGACATTCTTTGTGCTTAAGCTGCCTTAAGCC
41148 T A A TCAGTGCCCCAAAAAGAAGATGTCGTTACAATGTTTGAAGATGACATTCTTTGTGCTTAAGCTGCCTTAAGCC
41148 IS [GA] GGCTTAAGGCAGCTTAAGCACAAAGAATGTCATCTTCAAACATTGTAACG[GA]CATCTTCTTTTTGGGGCACTGAAGTA TTCCCATGATTCCAAGAATCAAAT
41149 I S CAGTCCAGAACACAGAAACTACTCTAGGCATTTAAAGCAGAGAAAATATAT
41149 P C S CGCGCCGAGGGTACAGGGAATTGATTACACAGG
41149 P T S CGCGCCGAGGATACAGGGAATTGATTACACAGG
41149 T C S GTCACCTGTGTAATCAATTCCCTGTACTATATTTTCTCTGCTTTAAATGCCTAGAGTAGTTTCTGTGTTCTGGACTG
41149 T T S GTCACCTGTGTAATCAATTCCCTGTATTATATTTTCTCTGCTTTAAATGCCTAGAGTAGTTTCTGTGTTCTGGACTG
41149 IS [CT] CCTGTTTGGGATTTCAGCGCATCTGTCACCTGTGTAATCAATTCCCTGTA[CT]TATATTTTCTCTGCTTTAAATGCCTAG AGTAGTTTCTGTGTTCTGGACTG
44973 I A GGGCTCCTGTGGTTGGGGGTTGGGT
44973 P INS A CGCGCCGAGGGGTTTGGGCTCCTCAGA
44973 P DEL A CGCGCCGAGGGTTTGGGCTCCTCAGAG
44973 T INS A CAGGCTCTGAGGAGCCCAAACCCCCAACCCCCAACCACAGGAGCCCGT
44973 T DEL A CAGGCTCTGAGGAGCCCAAACCCCAACCCCCAACCACAGGAGCCCGT
44973 IS [G-] GGTGCCATGCCTTGAGCAGATACACGGGCTCCTGTGGTTGGGGGTTGGGG[G-]TTTGGGCTCCTCAGAGCCTGTGCAACTCTCCCGGCTCCAAAGGCTGCAGA
64276 I A GCTGCCAGCCCCGCCCAGACTA
64276 P C A CGCGCCGAGGCCAGGCAGGTTCTCGTV
64276 P T A CGCGCCGAGGTCAGGCAGGTTCTCGTTV
64276 T C A TAGCAACGAGAACCTGCCTGGAGTCTGGGCGGGGCTGGCAGCAG
64276 T T A TAGCAACGAGAACCTGCCTGAAGTCTGGGCGGGGCTGGCAGCAG
64276 IS [CT] ggctctccagggtgtccaggagtctctctgctgccagccccgcccagact[CT]caggcaggttctcgttgctatggtgatcgccggtgcaagctggatgcttg
64279 I S CCAGGGGCAGAGCATTTTCCTGGAATAGTCACTCT
64279 P T S CGCGCCGAGGACTGTACTTCCAAGCTGTCV
64279 P C S CGCGCCGAGGGCTGTACTTCCAAGCTGTCV
64279 T T S GTGGGACAGCTTGGAAGTACAGTGAGTGACTATTCCAGGAAAATGCTCTGCCCCTGGGA
64279 T C S GTGGGACAGCTTGGAAGTACAGCGAGTGACTATTCCAGGAAAATGCTCTGCCCCTGGGA
64279 IS [TC] actgacgcagggccttatagttgctgtgggacagctggagagtacag[TC]gagtgactattccaggaaaatgctctgcccctgggaagcctggagctagt
64295 I A GCCCCTGCATTCCCCGCTTCGTCCT
64295 P C A CGCGCCGAGGCGCTGTCCACGGCV
64295 P A A CGCGCCGAGGAGCTGTCCACGGCGV
64295 T C A CCGGCGCCGTGGACAGCGGGACGAAGCGGGGAATGCAGGGGCGC
64295 T A A CCGGCGCCGTGGACAGCTGGACGAAGCGGGGAATGCAGGGGCGC
64295 IS [CA] tctgagggcgcgccctgcccgcgctgcgcccctgcattccccgcttcgtcc[CA]gctgtccacgggcgccggcctcccgcgagcagccgcagcgggcccagcgg HsPOX2
64296 I A GGAGGCTACTGTATATTTACCACCAGGGCTTTATTCATGCACTA
64296 P C A CGCGCCGAGGCTTAGTTGAACACAGATAATACGTTTTACV
64296 P T A CGCGCCGAGGTTTAGTTGAACACAGATAATACGTTTTACV
64296 T C A ATAAGTAAAACGTATTATCTGTGTTCAACTAAGAGTGCATGAATAAAGCCCTGGTGGTAAATATACAGTAGCCTCCAT
64296 T T A ATAAGTAAAACGTATTATCTGTGTTCAACTAAAAGTGCATGAATAAAGCCCTGGTGGTAAATATACAGTAGCCTCCAT
64296 IS [CT] ttcaaatggaggctactgtatatttaccaccagggctttattcatgcact[CT]ttagttgaacacagataatacgttttacttatttcctcctttgaattctac
64299 I A GCTGGAGTCAAGGTTATCCAGTGGAGTTTCCACTTTAAAAATCAGTTTTC
64299 P G A CGCGCCGAGGGTCAGCCTTTGTGTTTGCV
64299 P T A CGCGCCGAGGTTCAGCCTTTGTGTTTGCAV
64299 T G A AATATGCAAACACAAAGGCTGACAAAACTGATTTTTAAAGTGGAAACTCCACTGGATAACCTTGACTCCAGCC
64299 T T A AATATGCAAACACAAAGGCTGAAAAAACTGATTTTTAAAGTGGAAACTCCACTGGATAACCTTGACTCCAGCC
64299 IS [GT] ggctggagtcaaggttatccagtggagtttccacttttaaaaatcagttt[GT]tcagccttgtgttgtcatattacagacatgatagctgtctatccacit
64312 I A CAACTGTTTCCAAGCTTATTCTTAGACGGCCATCTTCCTTCTTTA
64312 P T A CGCGCCGAGGTGGAATCTTTCTGGTACTAGTACTV
64312 P C A CGCGCCGAGGCGGAATCTTTCTGGTACTAGTACV
64312 T T A AAAAAGTACTAGTACCAGAAAGATTCCAAAAGAAGGAAGATGGCCGTCTAAGAATAAGCTTGGAAACAGTTGCA



64312 T	C	A	AAAAAGTACTAGTACCAGAAAGATTCCGAAAGAAGGAAGATGGCCGTCTAAGAATAAGCTTGGAAACAGTTGCA	
64312 IS	[TC]		AAACTGCAACTGTTTCCAAGCTTATTCTTAGACGGCCATCTTCCTTCTTT[TC]GGAATCTTTCTGGTACTAGTACTTTTT TTCTCTACAAGTGTATCTCCTCA	
64315 I		S	CATTCACAGCGTAGTGGGTGGGGAAATGGACAT	
64315 P	C	S	CGCGCCGAGGGTGAACCCGGGTGTCAV	
64315 P	T	S	CGCGCCGAGGATGAACCCGGGTGTCAV	
64315 T	C	S	GCCCTGACACCCGGGTTCACTGTCCATTTCCCCACCCACTACGCTGTGAATGGC	
64315 T	T	S	GCCCTGACACCCGGGTTCATTGTCCATTTCCCCACCCACTACGCTGTGAATGGC	
64315 IS	[CT]		acaacttcattgtcttcatagcctcatcacgcccgacacccgggttca[CT]gtccatttcccccacccactacgcigtgaatggcagatggcactgacagc	
64317 I		S	AAAGAAGACAGAGAAGCATATTCTAATTAACTAGTTTAAGAGGAACTTAAT	
64317 P	C	S	CGCGCCGAGGGCTAAATTTCCTTAGACATCCTAAATGV	
64317 P	T	S	CGCGCCGAGGACTAAATTTCCTTAGACATCCTAAATGGV	
64317 T	C	S	ATGTCCATTTAGGATGTCTAAGGAAATTTAGCTTAAGTTCCTCTTAAACTAGTTAATTAGAATATGCTTCTCTGTCTTCT TT	
64317 T	T	S	ATGTCCATTTAGGATGTCTAAGGAAATTTAGTTTAAGTTCCTCTTAAACTAGTTAATTAGAATATGCTTCTCTGTCTTCT TT	
64317 IS	[CT]		cagaatgtgaaaaggccaatgtccatttaggatgtctaaggaaatttag[CT]ttaagttcctcttaaactagttaattagaatatgcttctctgtctttctt	
64335 I		S	TCTGACTTCAGCTTTTCTATGTCTCTGTGTTAGGATTTAAAAAATTAAATC	
64335 P	A	S	CGCGCCGAGGTCTAGGCACTTGAACCTGTV	
64335 P	C	S	CGCGCCGAGGGCTAGGCACTTGAACCTGV	
64335 T	A	S	ATCAACAGGTTCAAGTGCCTAGAATTTAATTTTTTAAATCCTAACACAGAGACATAGAAAAGCTGAAGTCAGA	
64335 T	C	S	ATCAACAGGTTCAAGTGCCTAGCATTTAATTTTTTAAATCCTAACACAGAGACATAGAAAAGCTGAAGTCAGA	
64335 IS	[AC]		tagagccatagaataaaacacaaaggagatcaacaggttcaagtgcctag[AC]attttaattttttaaatcctaacacagagacatagaaaagctgaagtcaga	
64336 I		A	GATTTGAACAATTATGTCAGTTAAGGAAAAGCAGACATAATTGGAGAAATC	
64336 P	A	A	CGCGCCGAGGATGTGGCGAATCAAACAGGV	
64336 P	T	A	CGCGCCGAGGTTGTGGCGAATCAAACAGGV	
64336 T	A	A	AGAACCTGTTTGATTCGCCACATATTTCTCCAATTATGTCTGCTTTTCCTTAACTGACATAATTGTTCAAATC	
64336 T	T	A	AGAACCTGTTTGATTCGCCACAAATTTCTCCAATTATGTCTGCTTTTCCTTAACTGACATAATTGTTCAAATC	
64336 IS	[AT]		gatttgaacaattatgtcagttaaggaaaagcagacataattggagaaat[AT]tgtggcgaatcaaacaggttctgttacttgcttctgagaatatgctatgca	
64345 I		A	TAGCTAAATACACATTAGCTATTATTACTCCTGCTACTTCTACTTATTATT	
64345 P	A	A	CGCGCCGAGGATTTGCTGCTTTTATTATTGTTGTCAV	
64345 P	C	A	CGCGCCGAGGCTTTGCTGCTTTTATTATTGTTGTCV	
64345 T	A	A	TTAGTGACAACAATAATAAAAGCAGCAAATATAATAAGTAGAAGTAGCAGGAGTAATAATAGCTAATGTGTATTTAGCTA	
64345 T	C	A	TTAGTGACAACAATAATAAAAGCAGCAAAGATAATAAGTAGAAGTAGCAGGAGTAATAATAGCTAATGTGTATTTAGCT A	
64345 IS	[AC]		tagctaaatacacattagctattattactcctgctacttctacttattat[AC]tttgctgctttattattgttgtcactaatataaagctggaaggaaccac	
64353 I		A	CCCCCAGCCCACTGTTATTTTTTCATTCATCACTCCATCA	
64353 P	T	A	CGCGCCGAGGTACTTGCCAGGCCTGGV	
64353 P	C	A	CGCGCCGAGGCACTTGCCAGGCCTGV	
64353 T	T	A	CTACCCAGGCCTGGCAAGTAGATGGAGTGATGAATGAAAAAATAACAGTGGGCTGGGGGTG	
64353 T	C	A	CTACCCAGGCCTGGCAAGTGGATGGAGTGATGAATGAAAAAATAACAGTGGGCTGGGGGTG	
64353 IS	[TC]		atgagccaccaccccagcccactgttatttttcattcatcactccatc[TC]actgccaggcctgggtaggggcctgagacccagaccagcccacagctc	
64359 I		S	GGATAGGCCCTCGAGTTTGGCATCACTTGCAATT	
64359 P	C	S	CGCGCCGAGGGCTGCCTCTGCTATATGCV	
64359 P	G	S	CGCGCCGAGGCCTGCCTCTGCTATATGCV	
64359 T	C	S	ACTAGCATATAGCAGAGGCAGCATTGCAAGTGATGCCAAACTCGAGGGCCTATCCCA	
64359 T	G	S	ACTAGCATATAGCAGAGGCAGGATTGCAAGTGATGCCAAACTCGAGGGCCTATCCCA	
64359 IS	[CG]		gagtaaaccagtctgtacaaaggtcacacaactagcatatagcagaggcag[CG]attgcaagtgatgccaaactcgagggcctatcccatttttattaatacca	
64361 I		A	CAGGACCTTTCACATTTCTTAGAACAAGCAGGAAATCAAGTCACCT	
64361 P	G	A	CGCGCCGAGGGAACTTACCTCCGCATTTTCAV	
64361 P	A	A	CGCGCCGAGGAAACTTACCTCCGCATTTTCAV	
64361 T	G	A	GAGATGAAAATGCGGAGGTAAGTTCGGTGACTTGATTTCCTGCTTGTTCTAAGAAATGTGAAAGGTCCTGCT	
64361 T	A	A	GAGATGAAAATGCGGAGGTAAGTTTGGTGACTTGATTTCCTGCTTGTTCTAAGAAATGTGAAAGGTCCTGCT	
64361 IS	[GA]		aacagcaggaccttcacatttcttagaacaagcaggaaatcaagtcacc[GA]aacttacctccgcatttcatctcccatttcttgaggagcatcagtgtct	
67004 I		S	GCTCACCTTGGCCAATGCCTCCTTCTGCA	
67004 P	G	S	CGCGCCGAGGCTGGGGCTCAGATCGCV	
67004 P	A	S	CGCGCCGAGGTTGGGGCTCAGATCGCV	
67004 T	G	S	GTCGGCGATCTGAGCCCCAGGCAGAAGGAGGCATTGGCCAAGGTGAGCTG	
67004 T	A	S	GTCGGCGATCTGAGCCCCAAGCAGAAGGAGGCATTGGCCAAGGTGAGCTG	
67004 IS	[GA]		tcccgcggttgagccacgatgagcggcagagtcggcgatctgagcccca[GA]gcagaaggaggcattggccaaggtgagctgtagcccggggctccc	
67010 I		A	CAAGTGTCTGAGCCAATTAGAGACCCCTGACATATAACAATAAAGCAT	
67010 P	G	A	CGCGCCGAGGGCTCTTACTACAACTGCATCCV	
67010 P	A	A	CGCGCCGAGGACTCTTACTACAACTGCATCCV	
67010 T	G	A	GGAGGGATGCAGTTGTAGTAAGAGCTGCTTTATTGTTATATGTCAGGGGTCTCTAATTGGCTCAGACACTTGAA	
67010 T	A	A	GGAGGGATGCAGTTGTAGTAAGAGTTGCTTTATTGTTATATGTCAGGGGTCTCTAATTGGCTCAGACACTTGAA	
67010 IS	[GA]		aticaagtgtctgagccaattagagaccccctgacatataacaataaagca[GA]ctcttactacaactgcatcccctcctgtgcccttatcccaatcacaacctt	
67014 I		S	CGCAGTCCAGCTCCTGGTCATTTGCTGCT	
67014 P	C	S	CGCGCCGAGGGAGGAAGTTCCCCTTGGTV	
67014 P	T	S	CGCGCCGAGGAAGGAAGTTCCCCTTGGTV	
67014 T	C	S	GCAGACCAAGGGGAACTTCCTCGCAGCAAATGACCAGGAGCTGGACTGCGAC	
67014 T	T	S	GCAGACCAAGGGGAACTTCCTTGCAGCAAATGACCAGGAGCTGGACTGCGAC	
67014 IS	[CT]		gagagagagtagttaggttccatgatgcagaccaaggggaacttcct[CT]gcagcaaatgaccaggagctggactgcgacatcctccagctggaatacgt	SERPIND1
67024 I		A	AAAACTACTTTAGAGAATTGAAAGGAAAGAAAACTCAAATAATTTTTATAT	
67024 P	G	A	CGCGCCGAGGGTAGGTTAATACTGTCAATAGGTCAATV	
67024 P	A	A	CGCGCCGAGGATAGGTTAATACTGTCAATAGGTCAATCV	
67024 T	G	A	TCCTGATTGACCTATTGACAGTATTAACCTACTATAAAAATTATTTGAGTTTTCTTTCCTTTCAATTCTCTAAAGTAGTTT T	

FIGURE 129D

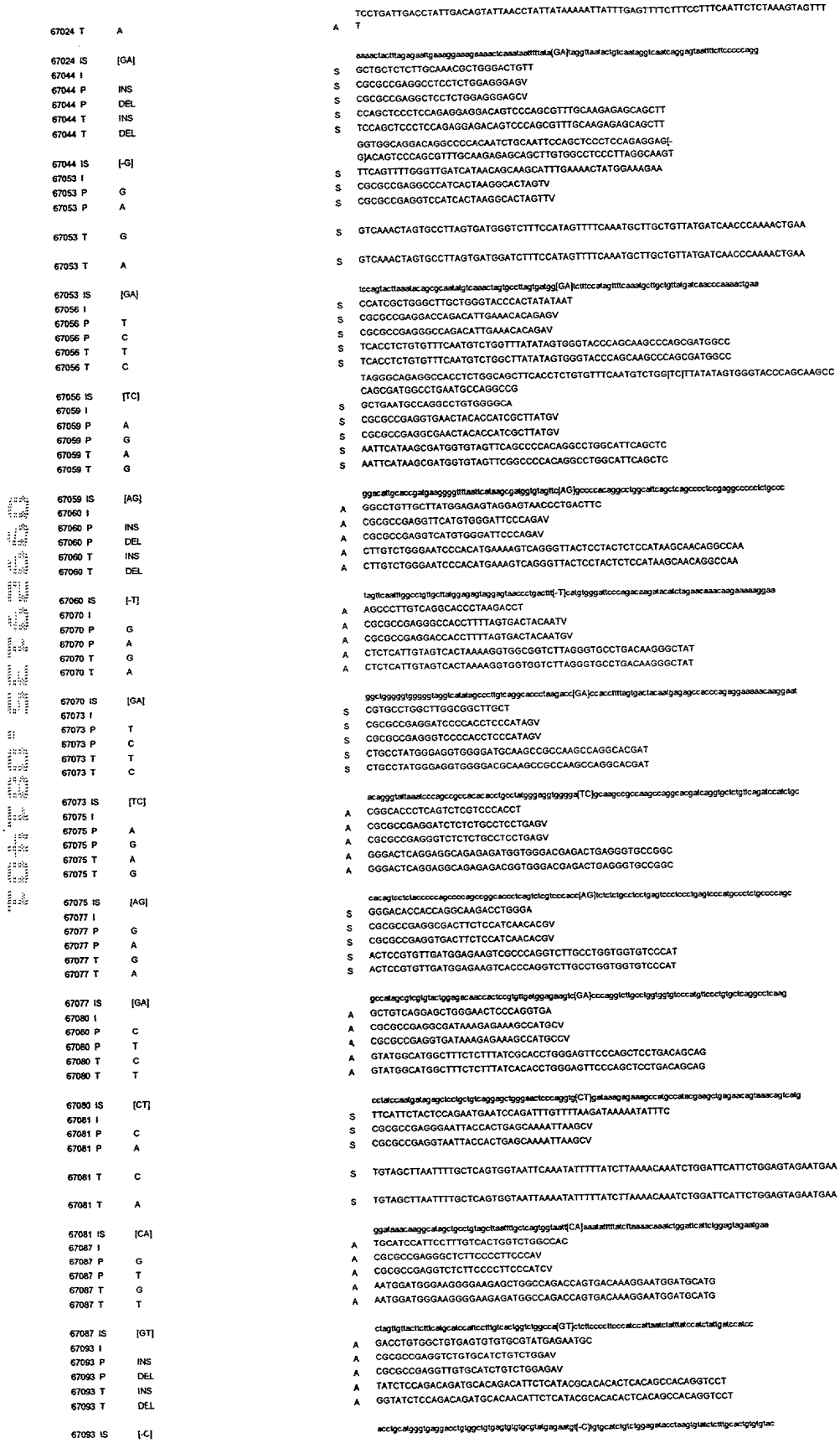

TCCTGATTGACCTATTGACAGTATTAACCTATTATAAAAATTATTTGAGTTTTCTTTCCTTTCAATTCTCTAAAGTAGTTT
67024 T A
A T
aaaactacttagagaattgaaaggaaagaaaactcaaataatttttata[GA]taggttaatactgtcaataggtcaatcaggagtaatttctccccagg
67024 IS [GA]
67044 I
S GCTGCTCTCTTGCAAACGCTGGGACTGTT
67044 P INS
S CGCGCCGAGGCCTCCTCTGGAGGGAGV
67044 P DEL
S CGCGCCGAGGCTCCTCTGGAGGGAGCV
67044 T INS
S CCAGCTCCCTCCAGAGGAGGACAGTCCCAGCGTTTGCAAGAGAGCAGCTT
67044 T DEL
S TCCAGCTCCCTCCAGAGGAGACAGTCCCAGCGTTTGCAAGAGAGCAGCTT
GGTGGCAGGACAGGCCCCACAATCTGCAATTCCAGCTCCCTCCAGAGGAG[-
G]ACAGTCCCAGCGTTTGCAAGAGAGCAGCTTGTGGCCTCCCTTAGGCAAGT
67044 IS [-G]
67053 I
S TTCAGTTTTGGGTTGATCATAACAGCAAGCATTTGAAAACTATGGAAAGAA
67053 P G
S CGCGCCGAGGCCCATCACTAAGGCACTAGTV
67053 P A
S CGCGCCGAGGTCCATCACTAAGGCACTAGTTV
67053 T G
S GTCAAACTAGTGCCTTAGTGATGGGTCTTTCCATAGTTTTCAAATGCTTGCTGTTATGATCAACCCAAAACTGAA
67053 T A
S GTCAAACTAGTGCCTTAGTGATGGATCTTTCCATAGTTTTCAAATGCTTGCTGTTATGATCAACCCAAAACTGAA
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67053 IS [GA]
67056 I
S CCATCGCTGGGCTTGCTGGGTACCCACTATATAAT
67056 P T
S CGCGCCGAGGACCAGACATTGAAACACAGAGV
67056 P C
S CGCGCCGAGGGCCAGACATTGAAACACAGAV
67056 T T
S TCACCTCTGTGTTTCAATGTCTGGTTTATATAGTGGGTACCCAGCAAGCCCAGCGATGGCC
67056 T C
S TCACCTCTGTGTTTCAATGTCTGGCTTATATAGTGGGTACCCAGCAAGCCCAGCGATGGCC
TAGGGCAGAGGCCACCTCTGGCAGCTTCACCTCTGTGTTTCAATGTCTGG[TC]TTATATAGTGGGTACCCAGCAAGCC
CAGCGATGGCCTGAATGCCAGGCCG
67056 IS [TC]
67059 I
S GCTGAATGCCAGGCCTGTGGGGCA
67059 P A
S CGCGCCGAGGTGAACTACACCATCGCTTATGV
67059 P G
S CGCGCCGAGGCGAACTACACCATCGCTTATGV
67059 T A
S AATTCATAAGCGATGGTGTAGTTCAGCCCCACAGGCCTGGCATTCAGCTC
67059 T G
S AATTCATAAGCGATGGTGTAGTTCGGCCCCACAGGCCTGGCATTCAGCTC
ggacattgcaccgatgaaggggtttaattcataagcgatgggtgtagttc[AG]gccccacaggcctggcattcagctcagcccctccgaggccccctctgccc
67059 IS [AG]
67060 I
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67060 P INS
A CGCGCCGAGGTTCATGTGGGATTCCCAGAV
67060 P DEL
A CGCGCCGAGGTCATGTGGGATTCCCAGAV
67060 T INS
A CTTGTCTGGGAATCCCACATGAAAAGTCAGGGTTACTCCTACTCTCCATAAGCAACAGGCCAA
67060 T DEL
A CTTGTCTGGGAATCCCACATGAAAGTCAGGGTTACTCCTACTCTCCATAAGCAACAGGCCAA
tagttcaatttggcctgttgcttatggagagtaggagtaaccctgacttt[-T]catgtgggattcccagaczagatacatctagaacaaacaagaaaaggaa
67060 IS [-T]
67070 I
A AGCCCTTGTCAGGCACCCTAAGACCT
67070 P G
A CGCGCCGAGGGCCACCTTTTAGTGACTACAATV
67070 P A
A CGCGCCGAGGACCACCTTTTAGTGACTACAATGV
67070 T G
A CTCTCATTGTAGTCACTAAAAGGTGGCGGTCTTAGGGTGCCTGACAAGGGCTAT
67070 T A
A CTCTCATTGTAGTCACTAAAAGGTGGTGGTCTTAGGGTGCCTGACAAGGGCTAT
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67070 IS [GA]
67073 I
S CGTGCCTGGCTTGGCGGCTTGCT
67073 P T
S CGCGCCGAGGATCCCCACCTCCCATAGV
67073 P C
S CGCGCCGAGGGTCCCCACCTCCCATAGV
67073 T T
S CTGCCTATGGGAGGTGGGGATGCAAGCCGCCAAGCCAGGCACGAT
67073 T C
S CTGCCTATGGGAGGTGGGGACGCAAGCCGCCAAGCCAGGCACGAT
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67073 IS [TC]
67075 I
A CGGCACCCTCAGTCTCGTCCCACCT
67075 P A
A CGCGCCGAGGATCTCTCTGCCTCCTGAGV
67075 P G
A CGCGCCGAGGGTCTCTCTGCCTCCTGAGV
67075 T A
A GGGACTCAGGAGGCAGAGAGATGGTGGGACGAGACTGAGGGTGCCGGC
67075 T G
A GGGACTCAGGAGGCAGAGAGACGGTGGGACGAGACTGAGGGTGCCGGC
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67075 IS [AG]
67077 I
S GGGACACCACCAGGCAAGACCTGGGA
67077 P G
S CGCGCCGAGGCGACTTCTCCATCAACACGV
67077 P A
S CGCGCCGAGGTGACTTCTCCATCAACACGV
67077 T G
S ACTCCGTGTTGATGGAGAAGTCGCCCAGGTCTTGCCTGGTGGTGTCCCAT
67077 T A
S ACTCCGTGTTGATGGAGAAGTCACCCAGGTCTTGCCTGGTGGTGTCCCAT
gccatagcgtcgtgtactggagacaaccactccgtgttgatggagaagtc[GA]cccaggtcttgcctggtggtgtcccatgttcctgtgctcaggcctcaag
67077 IS [GA]
67080 I
A GCTGTCAGGAGCTGGGAACTCCCAGGTGA
67080 P C
A CGCGCCGAGGCGATAAAGAGAAAGCCATGCV
67080 P T
A CGCGCCGAGGTGATAAAGAGAAAGCCATGCCV
67080 T C
A GTATGGCATGGCTTTCTCTTTATCGCACCTGGGAGTTCCCAGCTCCTGACAGCAG
67080 T T
A GTATGGCATGGCTTTCTCTTTATCACACCTGGGAGTTCCCAGCTCCTGACAGCAG
cctatccaatgatagagctcctgctgtcaggagctgggaactcccaggtg[CT]gataaagagaaagccatgccatacgaagctgagaacagtaaacagtcatg
67080 IS [CT]
67081 I
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67081 P C
S CGCGCCGAGGGAATTACCACTGAGCAAAATTAAGCV
67081 P A
S CGCGCCGAGGTAATTACCACTGAGCAAAATTAAGCV
67081 T C
S TGTAGCTTAATTTTGCTCAGTGGTAATTCAAATATTTTTATCTTAAAACAAATCTGGATTCATTCTGGAGTAGAATGAA
67081 T A
S TGTAGCTTAATTTTGCTCAGTGGTAATTAAAATATTTTTATCTTAAAACAAATCTGGATTCATTCTGGAGTAGAATGAA
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67087 IS [CA]
67087 I
A TGCATCCATTCCTTTGTCACTGGTCTGGCCAC
67087 P G
A CGCGCCGAGGGCTCTTCCCCTTCCCAV
67087 P T
A CGCGCCGAGGTCTCTTCCCCTTCCCATCV
67087 T G
A AATGGATGGGAAGGGGAAGAGCTGGCCAGACCAGTGACAAAGGAATGGATGCATG
67087 T T
A AATGGATGGGAAGGGGAAGAGATGGCCAGACCAGTGACAAAGGAATGGATGCATG
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67087 IS [GT]
67093 I
A GACCTGTGGCTGTGAGTGTGTGCGTATGAGAATGC
67093 P INS
A CGCGCCGAGGTCTGTGCATCTGTCTGGAV
67093 P DEL
A CGCGCCGAGGTTGTGCATCTGTCTGGAGAV
67093 T INS
A TATCTCCAGACAGATGCACAGACATTCTCATACGCACACACTCACAGCCACAGGTCCT
67093 T DEL
A GGTATCTCCAGACAGATGCACAACATTCTCATACGCACACACTCACAGCCACAGGTCCT
67093 IS [-C]
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FIGURE 129D

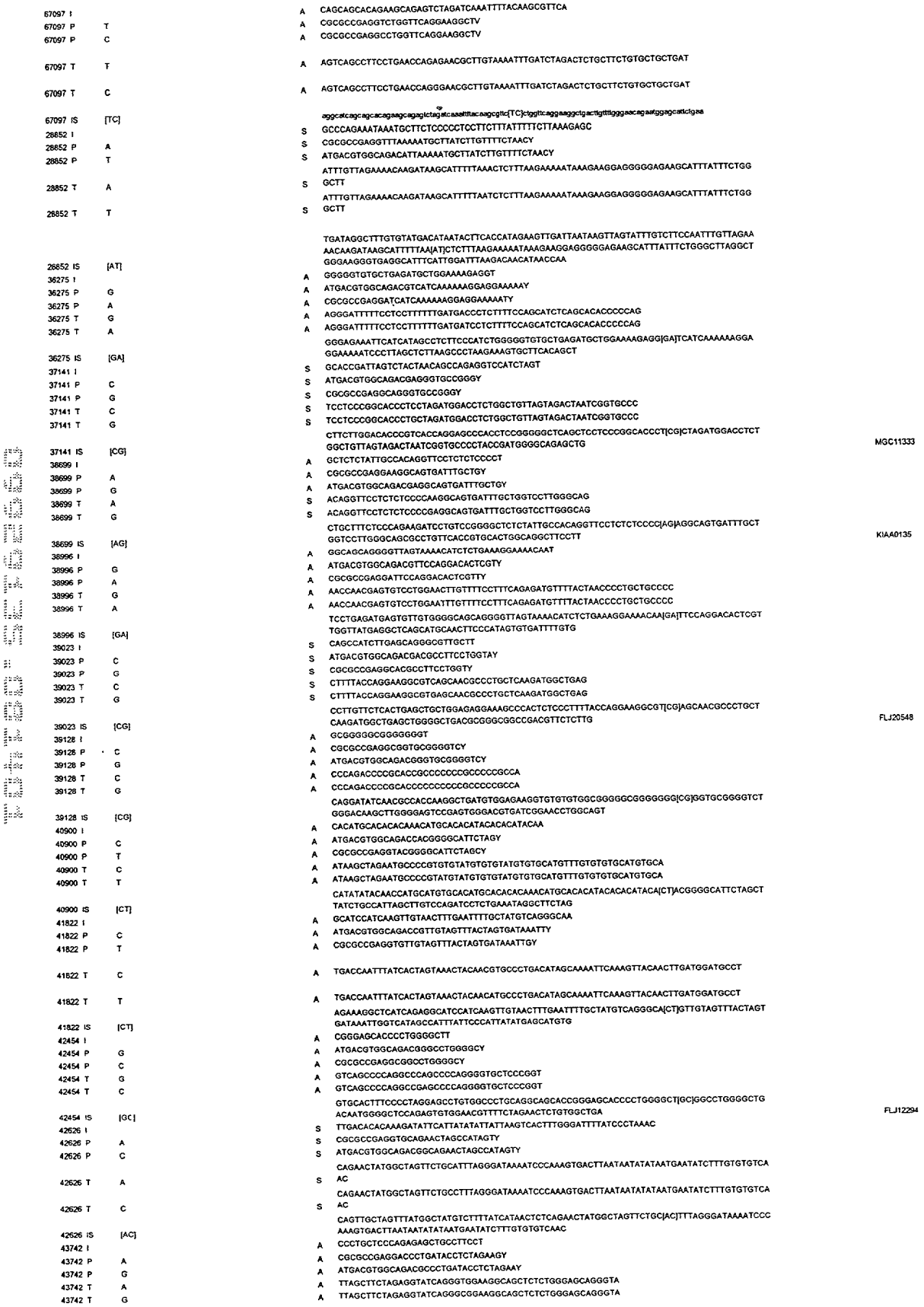


FIGURE 129D

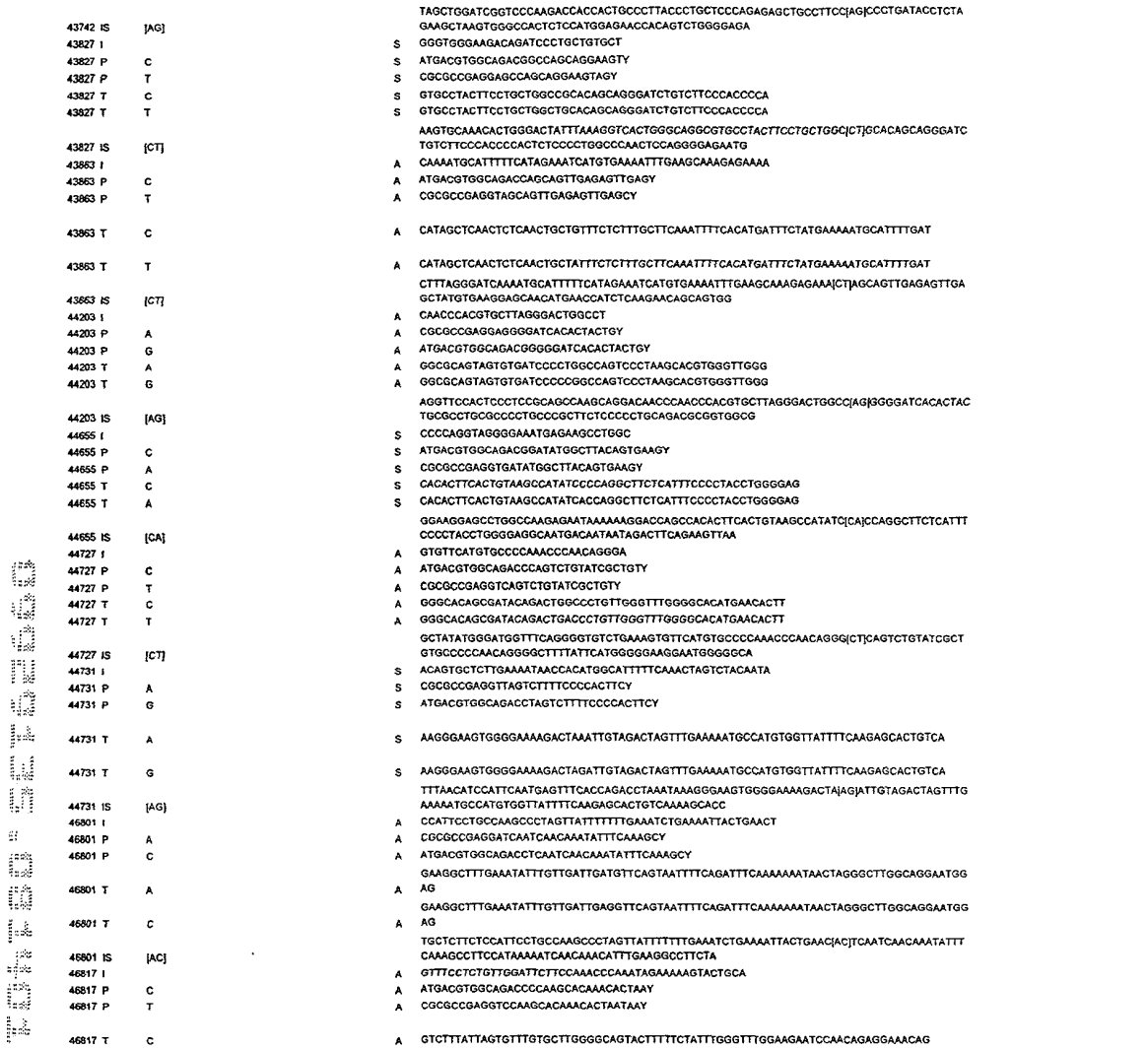

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43827 I S GGGTGGGAAGACAGATCCCTGCTGTGCT
43827 P C S ATGACGTGGCAGACGGCCAGCAGGAAGTY
43827 P T S CGCGCCGAGGAGCCAGCAGGAAGTAGY
43827 T C S GTGCCTACTTCCTGCTGGCCGCACAGCAGGGATCTGTCTTCCCACCCCA
43827 T T S GTGCCTACTTCCTGCTGGCTGCACAGCAGGGATCTGTCTTCCCACCCCA
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43827 IS [CT] TGTCTTCCCACCCCACTCTCCCCTGGCCCAACTCCAGGGGAGAATG
43863 I A CAAAATGCATTTTTCATAGAAATCATGTGAAAATTTGAAGCAAAGAGAAAA
43863 P C A ATGACGTGGCAGACCAGCAGTTGAGAGTTGAGY
43863 P T A CGCGCCGAGGTAGCAGTTGAGAGTTGAGCY
43863 T C A CATAGCTCAACTCTCAACTGCTGTTTCTCTTTGCTTCAAATTTTCACATGATTTCTATGAAAAATGCATTTTGAT
43863 T T A CATAGCTCAACTCTCAACTGCTATTTCTCTTTGCTTCAAATTTTCACATGATTTCTATGAAAAATGCATTTTGAT
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43863 IS [CT] GCTATGTGAAGGAGCAACATGAACCATCTCAAGAACAGCAGTGG
44203 I A CAACCCACGTGCTTAGGGACTGGCCT
44203 P A A CGCGCCGAGGAGGGGATCACACTACTGY
44203 P G A ATGACGTGGCAGACGGGGGATCACACTACTGY
44203 T A A GGCGCAGTAGTGTGATCCCCTGGCCAGTCCCTAAGCACGTGGGTTGGG
44203 T G A GGCGCAGTAGTGTGATCCCCCGGCCAGTCCCTAAGCACGTGGGTTGGG
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44203 IS [AG] TGCGCCTGCGCCCCTGCCCGCTTCTCCCCCTGCAGACGCGGTGGCG
44655 I S CCCCAGGTAGGGGAAATGAGAAGCCTGGC
44655 P C S ATGACGTGGCAGACGGATATGGCTTACAGTGAAGY
44655 P A S CGCGCCGAGGTGATATGGCTTACAGTGAAGY
44655 T C S CACACTTCACTGTAAGCCATATCCCCAGGCTTCTCATTTCCCCTACCTGGGGAG
44655 T A S CACACTTCACTGTAAGCCATATCACCAGGCTTCTCATTTCCCCTACCTGGGGAG
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44655 IS [CA] CCCCTACCTGGGGAGGCAATGACAATAATAGACTTCAGAAGTTAA
44727 I A GTGTTCATGTGCCCCAAACCCAACAGGGA
44727 P C A ATGACGTGGCAGACCCAGTCTGTATCGCTGTY
44727 P T A CGCGCCGAGGTCAGTCTGTATCGCTGTY
44727 T C A GGGCACAGCGATACAGACTGGCCCTGTTGGGTTTGGGGCACATGAACACTT
44727 T T A GGGCACAGCGATACAGACTGACCCTGTTGGGTTTGGGGCACATGAACACTT
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44727 IS [CT] GTGCCCCCAACAGGGGCTTTTATTCATGGGGGAAGGAATGGGGGCA
44731 I S ACAGTGCTCTTGAAAATAACCACATGGCATTTTTCAAACTAGTCTACAATA
44731 P A S CGCGCCGAGGTTAGTCTTTTCCCCACTTCY
44731 P G S ATGACGTGGCAGACCTAGTCTTTTCCCCACTTCY
44731 T A S AAGGGAAGTGGGGAAAAGACTAAATTGTAGACTAGTTTGAAAAATGCCATGTGGTTATTTTCAAGAGCACTGTCA
44731 T G S AAGGGAAGTGGGGAAAAGACTAGATTGTAGACTAGTTTGAAAAATGCCATGTGGTTATTTTCAAGAGCACTGTCA
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44731 IS [AG] AAAAATGCCATGTGGTTATTTTCAAGAGCACTGTCAAAAGCACC
46801 I A CCATTCCTGCCAAGCCCTAGTTATTTTTTTGAAATCTGAAAATTACTGAACT
46801 P A A CGCGCCGAGGATCAATCAACAAATATTTCAAAGCY
46801 P C A ATGACGTGGCAGACCTCAATCAACAAATATTTCAAAGCY
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46801 T A A AG
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46801 T C A AG
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46801 IS [AC] CAAAGCCTTCCATAAAAATCAACAAACATTTGAAGGCCTTCTA
46817 I A GTTTCCTCTGTTGGATTCTTCCAAACCCAAATAGAAAAAGTACTGCA
46817 P C A ATGACGTGGCAGACCCCAAGCACAAACACTAAY
46817 P T A CGCGCCGAGGTCCAAGCACAAACACTAATAAY
46817 T C A GTCTTTATTAGTGTTTGTGCTTGGGGCAGTACTTTTTCTATTTGGGTTTGGAAGAATCCAACAGAGGAAACAG
46817 T T A GTCTTTATTAGTGTTTGTGCTTGGAGCAGTACTTTTTCTATTTGGGTTTGGAAGAATCCAACAGAGGAAACAG
TTGATCTCTTGACTGTTTCCTCTGTTGGATTCTTCCAAACCCAAATAGAAAAAGTACTGC[CT]CCAAGCACAAACACTAA
46817 IS [CT] TAAAGACTTTCCTCTGCCCACCAAATGCCCAGAACTATTTTCA
46846 I A GGCTGCACTGATGTGCTGAACTGTGGGAC
46846 P A A CGCGCCGAGGAATCATACACAGCCCTATGY
46846 P T A ATGACGTGGCAGACTATCATACACAGCCCTATGY
46846 T A A GAGGCATAGGGCTGTGTATGATTTCCCACAGTTCAGCACATCAGTGCAGCCGT
46846 T T A GAGGCATAGGGCTGTGTATGATATCCCACAGTTCAGCACATCAGTGCAGCCGT
AATCCTGTCTCAGTAGTTCTGGACTCAGCCACGGCTGCACTGATGTGCTGAACTGTGGGA[AT]ATCATACACAGCCCT
46846 IS [AT] ATGCCTCTGTCCATGCTTAACCAAACTATGCAGATGGGACAGGCC ALS2CR2
46947 I A TCCAGCAGAGATGTTTTCTTCAATGTCTTCCCTCTGCA
46947 P C A ATGACGTGGCAGACCTCATGTGTTTCCAATCTTACY
46947 P T A CGCGCCGAGGTTCATGTGTTTCCAATCTTACY
46947 T C A GGAGGTAAGATTGGAAACACATGAGGCAGAGGGAAGACATTGAAGAAAACATCTCTGCTGGAAT
46947 T T A GGAGGTAAGATTGGAAACACATGAAGCAGAGGGAAGACATTGAAGAAAACATCTCTGCTGGAAT
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46947 IS [CT] TACCTCCACAGCGGGCTCTGCAACCCTCAGACATGTGGCAGAT
46970 I S GAAGCACAGAGTGGCTCAGTGAGACCAGGT
46970 P T S CGCGCCGAGGAGGGAAAAGTTAGGGTGGY
46970 P C S ATGACGTGGCAGACGGGGAAAAGTTAGGGTGY
46970 T T S GAGCCCACCCTAACTTTTCCCTCCTGGTCTCACTGAGCCACTCTGTGCTTCCC
46970 T C S GAGCCCACCCTAACTTTTCCCCCCTGGTCTCACTGAGCCACTCTGTGCTTCCC
GTGTACTCTTCAAAACTCAACCCTGCCATCAGCTCCAAGGAGCCCACCCTAACTTTTCCC[TC]CCTGGTCTCACTGAG
46970 IS [TC] CCACTCTGTGCTTCCCACCCATGAAACTCATATGTAAGATTTTTA
47054 I S CCAGACAGAAGCAGGCTAGGAGAGGGGAT
47054 P C S ATGACGTGGCAGACGGAGAGGCAGGGCY
47054 P G S CGCGCCGAGGCGAGAGGCAGGGCY
47054 T C S GCCAGCCCTGCCTCTCCTCCCCTCTCCTAGCCTGCTTCTGTCTGGGC
47054 T G S GCCAGCCCTGCCTCTCGTCCCCTCTCCTAGCCTGCTTCTGTCTGGGC
TTTGCCCAAGCAGAGAACTGTTGAGGAAGGTGAGCCTTCCGAGGGCCAGCCCTGCCTCTC[CG]TCCCCTCTCCTAGC
47054 IS [CG] CTGCTTCTGTCTGGGCTGAAGGCACAGCAGGGACAATCGCTCTTCC
47116 I A TTATTCTGAGATCATATATTTCTTAGTTTTGTTTGTAGTTTCCATATCCTTTGTTTTTTTT
47116 P A A CGCGCCGAGGAAAAAAAATATGGTATAGGACTATTTTTTAAY
47116 P G A ATGACGTGGCAGACGAAAAAAATATGGTATAGGACTATTTTTTAY
ACTTTTAAAAAATAGTCCTATACCATATTTTTTTTAAAAAAACAAAGGATATGGAAACTACAAACAAAACTAAGAAATATA
47116 T A A TGATCTCAGAATAA

FIGURE 129D

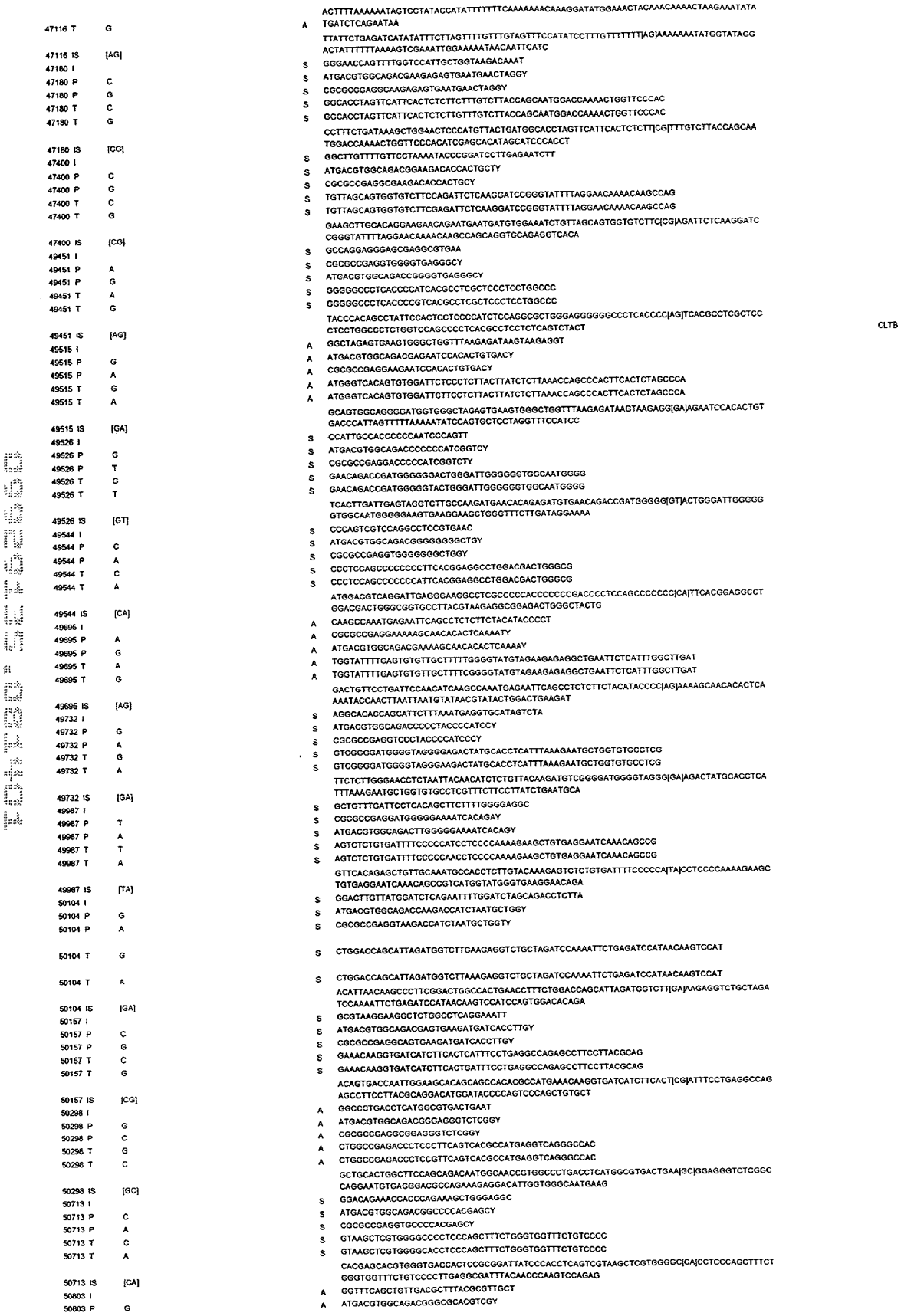
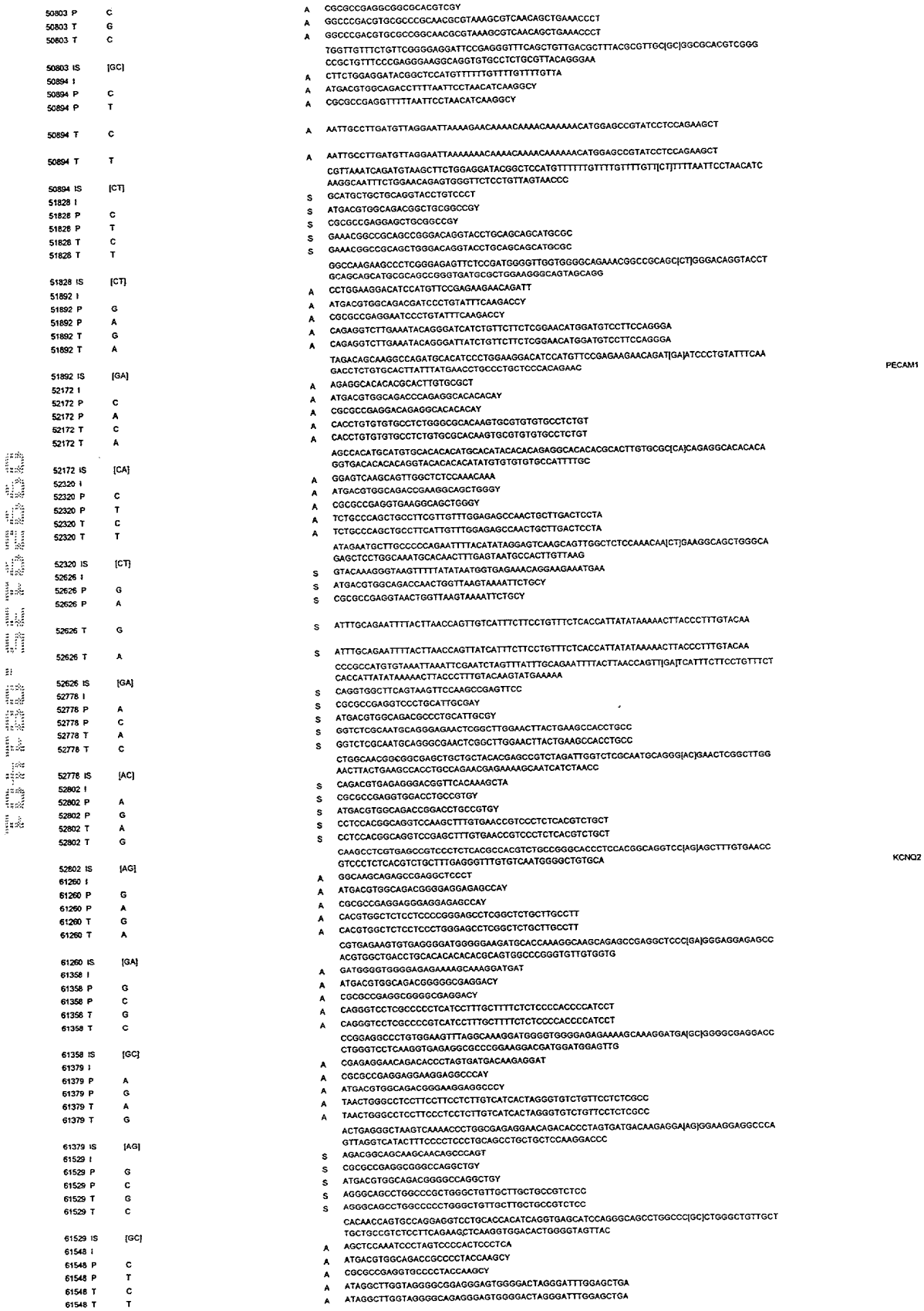

47116 T G
47116 IS [AG]
47180 I
47180 P C
47180 P G
47180 T C
47180 T G
47180 IS [CG]
47400 I
47400 P C
47400 P G
47400 T C
47400 T G
47400 IS [CG]
49451 I
49451 P A
49451 P G
49451 T A
49451 T G
49451 IS [AG]
49515 I
49515 P G
49515 P A
49515 T G
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49515 IS [GA]
49526 I
49526 P G
49526 P T
49526 T G
49526 T T
49526 IS [GT]
49544 I
49544 P C
49544 P A
49544 T C
49544 T A
49544 IS [CA]
49695 I
49695 P A
49695 P G
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49732 I
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49732 T G
49732 T A
49732 IS [GA]
49987 I
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49987 P A
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49987 T A
49987 IS [TA]
50104 I
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50157 T C
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50157 IS [CG]
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50713 P C
50713 P A
50713 T C
50713 T A
50713 IS [CA]
50803 I
50803 P G
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S ATGACGTGGCAGACGGAAGACACCACTGCTY
S CGCGCCGAGGCGAAGACACCACTGCY
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A CGCGCCGAGGAAGAATCCACACTGTGACY
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A ATGACGTGGCAGACGAAAAGCAACACACTCAAAAY
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S CGCGCCGAGGTCCCTACCCCATCCCY
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S AGTCTCTGTGATTTTCCCCCATCCTCCCCAAAAGAAGCTGTGAGGAATCAAACAGCCG
S AGTCTCTGTGATTTTCCCCCAACCTCCCCAAAAGAAGCTGTGAGGAATCAAACAGCCG
GTTCACAGAGCTGTTGCAAATGCCACCTCTTGTACAAAGAGTCTCTGTGATTTTCCCCCA[TA]CCTCCCCAAAAGAAGC
TGTGAGGAATCAAACAGCCGTCATGGTATGGGTGAAGGAACAGA
S GGACTTGTTATGGATCTCAGAATTTTGGATCTAGCAGACCTCTTA
S ATGACGTGGCAGACCAAGACCATCTAATGCTGGY
S CGCGCCGAGGTAAGACCATCTAATGCTGGTY
S CTGGACCAGCATTAGATGGTCTTGAAGAGGTCTGCTAGATCCAAAATTCTGAGATCCATAACAAGTCCAT
S CTGGACCAGCATTAGATGGTCTTAAAGAGGTCTGCTAGATCCAAAATTCTGAGATCCATAACAAGTCCAT
ACATTAACAAGCCCTTCGGACTGGCCACTGAACCTTTCTGGACCAGCATTAGATGGTCTT[GA]AAGAGGTCTGCTAGA
TCCAAAATTCTGAGATCCATAACAAGTCCATCCAGTGGACACAGA
S GCGTAAGGAAGGCTCTGGCCTCAGGAAATT
S ATGACGTGGCAGACGAGTGAAGATGATCACCTTGY
S CGCGCCGAGGCAGTGAAGATGATCACCTTGY
S GAAACAAGGTGATCATCTTCACTCATTTCCTGAGGCCAGAGCCTTCCTTACGCAG
S GAAACAAGGTGATCATCTTCACTGATTTCCTGAGGCCAGAGCCTTCCTTACGCAG
ACAGTGACCAATTGGAAGCACAGCAGCCACACGCCATGAAACAAGGTGATCATCTTCACT[CG]ATTTCCTGAGGCCAG
AGCCTTCCTTACGCAGGACATGGATACCCCAGTCCCAGCTGTGCT
A GGCCCTGACCTCATGGCGTGACTGAAT
A ATGACGTGGCAGACGGGAGGGTCTCGGY
A CGCGCCGAGGCGGAGGGTCTCGGY
A CTGGCCGAGACCCTCCCTTCAGTCACGCCATGAGGTCAGGGCCAC
A CTGGCCGAGACCCTCCGTTCAGTCACGCCATGAGGTCAGGGCCAC
GCTGCACTGGCTTCCAGCAGACAATGGCAACCGTGGCCCTGACCTCATGGCGTGACTGAA[GC]GGAGGGTCTCGGC
CAGGAATGTGAGGGACGCCAGAAAGAGGACATTGGTGGGCAATGAAG
S GGACAGAAACCACCCAGAAAGCTGGGAGGC
S ATGACGTGGCAGACGGCCCCACGAGCY
S CGCGCCGAGGTGCCCCACGAGCY
S GTAAGCTCGTGGGGCCCCTCCCAGCTTTCTGGGTGGTTTCTGTCCCC
S GTAAGCTCGTGGGGCACCTCCCAGCTTTCTGGGTGGTTTCTGTCCCC
CACGAGCACGTGGGTGACCACTCCGCGGATTATCCCACCTCAGTCGTAAGCTCGTGGGGC[CA]CCTCCCAGCTTTCT
GGGTGGTTTCTGTCCCCTTGAGGCGATTTACAACCCAAGTCCAGAG
A GGTTTCAGCTGTTGACGCTTTACGCGTTGCT
A ATGACGTGGCAGACGGGCGCACGTCGY
CLTB

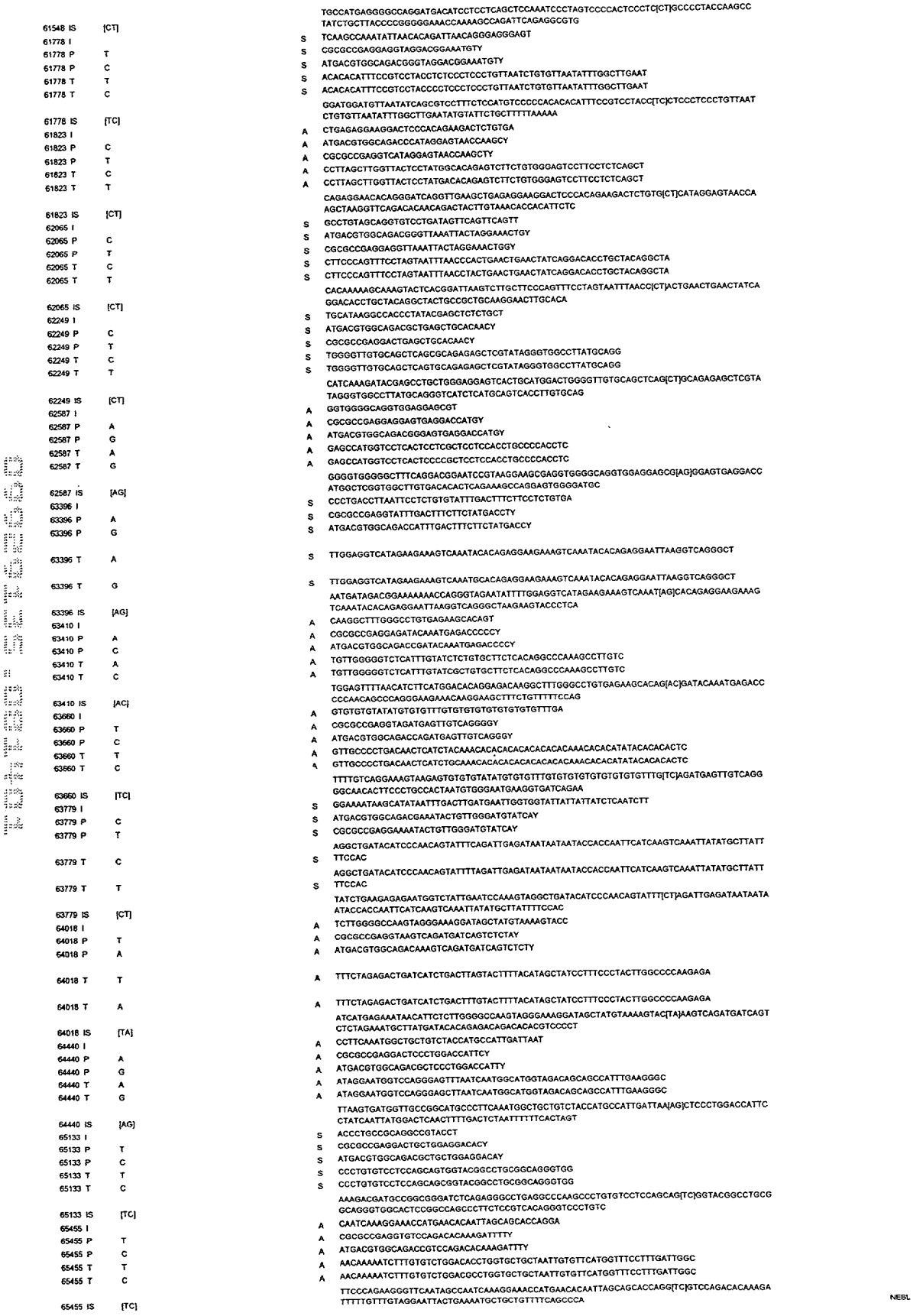
FIGURE 129D



PECAM1

KCNQ2

FIGURE 129D



NEBL

FIGURE 129D

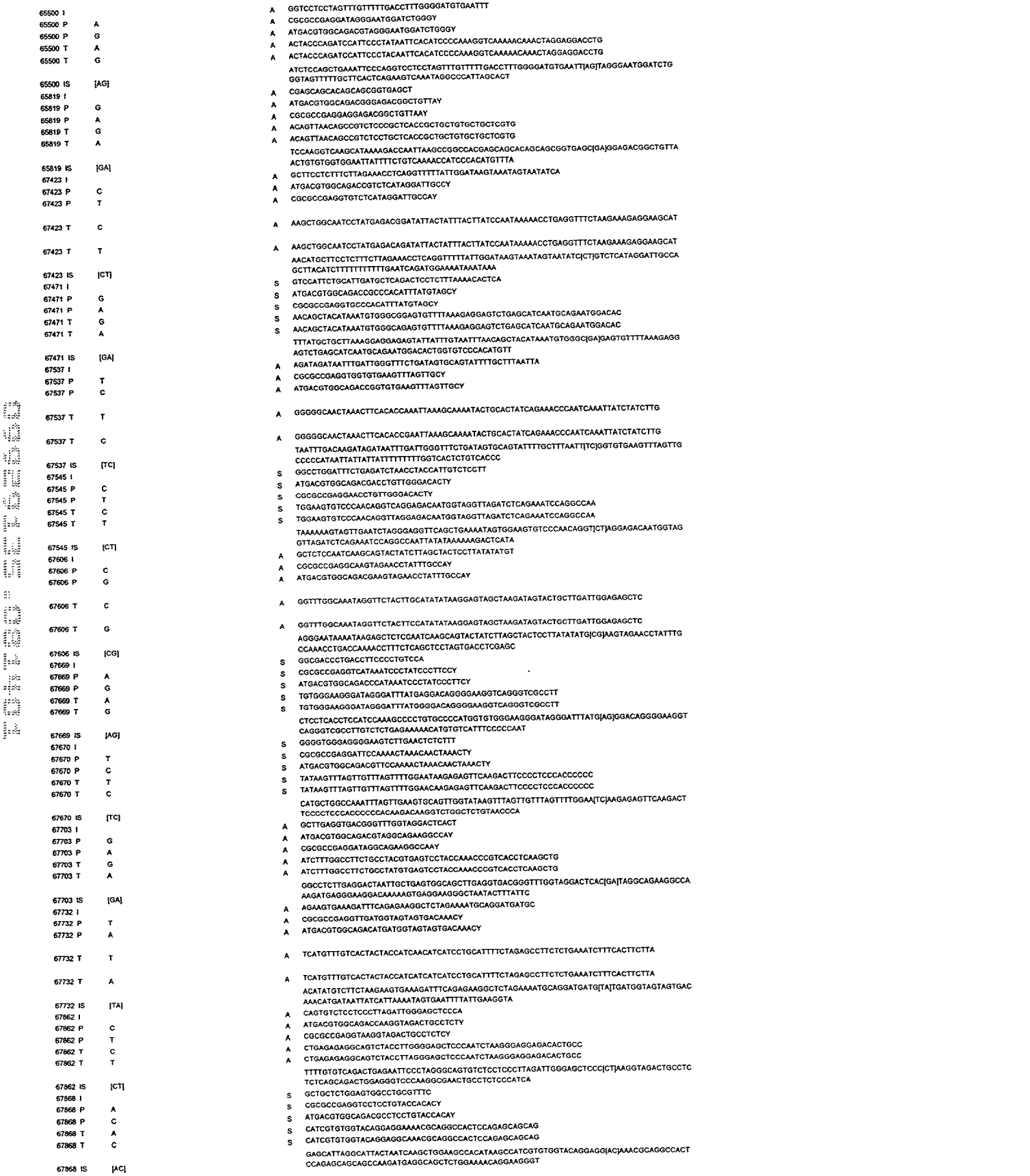

65500 I
65500 P A
65500 P G
65500 T A
65500 T G
65500 IS [AG]
65819 I
65819 P G
65819 P A
65819 T G
65819 T A
65819 IS [GA]
67423 I
67423 P C
67423 P T
67423 T C
67423 T T
67423 IS [CT]
67471 I
67471 P G
67471 P A
67471 T G
67471 T A
67471 IS [GA]
67537 I
67537 P T
67537 P C
67537 T T
67537 T C
67537 IS [TC]
67545 I
67545 P C
67545 P T
67545 T C
67545 T T
67545 IS [CT]
67606 I
67606 P C
67606 P G
67606 T C
67606 T G
67606 IS [CG]
67669 I
67669 P A
67669 P G
67669 T A
67669 T G
67669 IS [AG]
67670 I
67670 P T
67670 P C
67670 T T
67670 T C
67670 IS [TC]
67703 I
67703 P G
67703 P A
67703 T G
67703 T A
67703 IS [GA]
67732 I
67732 P T
67732 P A
67732 T T
67732 T A
67732 IS [TA]
67862 I
67862 P C
67862 P T
67862 T C
67862 T T
67862 IS [CT]
67868 I
67868 P A
67868 P C
67868 T A
67868 T C
67868 IS [AC]
A GGTCCTCCTAGTTTGTTTTTGACCTTTGGGGATGTGAATTT
A CGCGCCGAGGATAGGGAATGGATCTGGGY
A ATGACGTGGCAGACGTAGGGAATGGATCTGGGY
A ACTACCCAGATCCATTCCCTATAATTCACATCCCCAAAGGTCAAAAACAAACTAGGAGGACCTG
A ACTACCCAGATCCATTCCCTACAATTCACATCCCCAAAGGTCAAAAACAAACTAGGAGGACCTG
ATCTCCAGCTGAAATTCCCAGGTCCTCCTAGTTTGTTTTTGACCTTTGGGGATGTGAATT[AG]TAGGGAATGGATCTG
GGTAGTTTTTGCTTCACTCAGAAGTCAAATAGGCCCATTAGCACT
A CGAGCAGCACAGCAGCGGTGAGCT
A ATGACGTGGCAGACGGGAGACGGCTGTTAY
A CGCGCCGAGGAGGAGACGGCTGTTAAY
A ACAGTTAACAGCCGTCTCCCGCTCACCGCTGCTGTGCTGCTCGTG
A ACAGTTAACAGCCGTCTCCTGCTCACCGCTGCTGTGCTGCTCGTG
TCCAAGGTCAAGCATAAAAGACCAATTAAGCCGGCCACGAGCAGCACAGCAGCGGTGAGC[GA]GGAGACGGCTGTTA
ACTGTGTGGTGGAATTATTTTCTGTCAAAACCATCCCACATGTTTA
A GCTTCCTCTTTCTTAGAAACCTCAGGTTTTTATTGGATAAGTAAATAGTAATATCA
A ATGACGTGGCAGACCGTCTCATAGGATTGCCY
A CGCGCCGAGGTGTCTCATAGGATTGCCAY
A AAGCTGGCAATCCTATGAGACGGATATTACTATTTACTTATCCAATAAAAACCTGAGGTTTCTAAGAAAGAGGAAGCAT
A AAGCTGGCAATCCTATGAGACAGATATTACTATTTACTTATCCAATAAAAACCTGAGGTTTCTAAGAAAGAGGAAGCAT
AACATGCTTCCTCTTTCTTAGAAACCTCAGGTTTTTATTGGATAAGTAAATAGTAATATC[CT]GTCTCATAGGATTGCCA
GCTTACATCTTTTTTTTTTTGAATCAGATGGAAAATAAATAAA
S GTCCATTCTGCATTGATGCTCAGACTCCTCTTTAAAACACTCA
S ATGACGTGGCAGACCGCCCACATTTATGTAGCY
S CGCGCCGAGGTGCCCACATTTATGTAGCY
S AACAGCTACATAAATGTGGGCGGAGTGTTTTAAAGAGGAGTCTGAGCATCAATGCAGAATGGACAC
S AACAGCTACATAAATGTGGGCAGAGTGTTTTAAAGAGGAGTCTGAGCATCAATGCAGAATGGACAC
TTTATGCTGCTTAAAGGAGGAGAGTATTATTTGTAATTTAACAGCTACATAAATGTGGGC[GA]GAGTGTTTTAAAGAGG
AGTCTGAGCATCAATGCAGAATGGACACTGGTGTCCCACATGTT
A AGATAGATAATTTGATTGGGTTTCTGATAGTGCAGTATTTTGCTTTAATTA
A CGCGCCGAGGTGGTGTGAAGTTTAGTTGCY
A ATGACGTGGCAGACCGGTGTGAAGTTTAGTTGCY
A GGGGGCAACTAAACTTCACACCAAATTAAAGCAAAATACTGCACTATCAGAAACCCAATCAAATTATCTATCTTG
A GGGGGCAACTAAACTTCACACCGAATTAAAGCAAAATACTGCACTATCAGAAACCCAATCAAATTATCTATCTTG
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CCCCCATAATTATTATTATTTTTTTTTGGTCACTCTGTCACCC
S GGCCTGGATTTCTGAGATCTAACCTACCATTGTCTCCTT
S ATGACGTGGCAGACGACCTGTTGGGACACTY
S CGCGCCGAGGAACCTGTTGGGACACTY
S TGGAAGTGTCCCAACAGGTCAGGAGACAATGGTAGGTTAGATCTCAGAAATCCAGGCCAA
S TGGAAGTGTCCCAACAGGTTAGGAGACAATGGTAGGTTAGATCTCAGAAATCCAGGCCAA
TAAAAAAGTAGTTGAATCTAGGGAGGTTCAGCTGAAAATAGTGGAAGTGTCCCAACAGGT[CT]AGGAGACAATGGTAG
GTTAGATCTCAGAAATCCAGGCCAATTATATAAAAAAGACTCATA
A GCTCTCCAATCAAGCAGTACTATCTTAGCTACTCCTTATATATGT
A CGCGCCGAGGCAAGTAGAACCTATTTGCCAY
A ATGACGTGGCAGACGAAGTAGAACCTATTTGCCAY
A GGTTTGGCAAATAGGTTCTACTTGCATATATAAGGAGTAGCTAAGATAGTACTGCTTGATTGGAGAGCTC
A GGTTTGGCAAATAGGTTCTACTTCCATATATAAGGAGTAGCTAAGATAGTACTGCTTGATTGGAGAGCTC
AGGGAATAAAATAAGAGCTCTCCAATCAAGCAGTACTATCTTAGCTACTCCTTATATATG[CG]AAGTAGAACCTATTTG
CCAAACCTGACCAAAACCTTTCTCAGCTCCTAGTGACCTCGAGC
S GGCGACCCTGACCTTCCCCTGTCCA
S CGCGCCGAGGTCATAAATCCCTATCCCTTCCY
S ATGACGTGGCAGACCCATAAATCCCTATCCCTTCY
S TGTGGGAAGGGATAGGGATTTATGAGGACAGGGGAAGGTCAGGGTCGCCTT
S TGTGGGAAGGGATAGGGATTTATGGGGACAGGGGAAGGTCAGGGTCGCCTT
CTCCTCACCTCCATCCAAAGCCCCTGTGCCCCATGGTGTGGGAAGGGATAGGGATTTATG[AG]GGACAGGGGAAGGT
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S GGGGTGGGAGGGGAAGTCTTGAACTCTCTTT
S CGCGCCGAGGATTCCAAAACTAAACAACTAAACTY
S ATGACGTGGCAGACGTTCCAAAACTAAACAACTAAACTY
S TATAAGTTTAGTTGTTTAGTTTTGGAATAAGAGAGTTCAAGACTTCCCCTCCCACCCCCC
S TATAAGTTTAGTTGTTTAGTTTTGGAACAAGAGAGTTCAAGACTTCCCCTCCCACCCCCC
CATGCTGGCCAAATTTAGTTGAAGTGCAGTTGGTATAAGTTTAGTTGTTTAGTTTTGGAA[TC]AAGAGAGTTCAAGACT
TCCCCTCCCACCCCCCACAAGACAAGGTCTGGCTCTGTAACCCA
A GCTTGAGGTGACGGGTTTGGTAGGACTCACT
A ATGACGTGGCAGACGTAGGCAGAAGGCCAY
A CGCGCCGAGGATAGGCAGAAGGCCAAY
A ATCTTTGGCCTTCTGCCTACGTGAGTCCTACCAAACCCGTCACCTCAAGCTG
A ATCTTTGGCCTTCTGCCTATGTGAGTCCTACCAAACCCGTCACCTCAAGCTG
GGCCTCTTGAGGACTAATTGCTGAGTGGCAGCTTGAGGTGACGGGTTTGGTAGGACTCAC[GA]TAGGCAGAAGGCCA
AAGATGAGGGAAGGACAAAAAGTGAGGAAGGGCTAATACTTTATTC
A AGAAGTGAAAGATTTCAGAGAAGGCTCTAGAAAATGCAGGATGATGC
A CGCGCCGAGGTTGATGGTAGTAGTGACAAACY
A ATGACGTGGCAGACATGATGGTAGTAGTGACAAACY
A TCATGTTTGTCACTACTACCATCAACATCATCCTGCATTTTCTAGAGCCTTCTCTGAAATCTTTCACTTCTTA
A TCATGTTTGTCACTACTACCATCATCATCATCCTGCATTTTCTAGAGCCTTCTCTGAAATCTTTCACTTCTTA
ACATATGTCTTCTAAGAAGTGAAAGATTTCAGAGAAGGCTCTAGAAAATGCAGGATGATG[TA]TGATGGTAGTAGTGAC
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A CAGTGTCTCCTCCCTTAGATTGGGAGCTCCCA
A ATGACGTGGCAGACCAAGGTAGACTGCCTCTY
A CGCGCCGAGGTAAGGTAGACTGCCTCTCY
A CTGAGAGAGGCAGTCTACCTTGGGGAGCTCCCAATCTAAGGGAGGAGACACTGCC
A CTGAGAGAGGCAGTCTACCTTAGGGAGCTCCCAATCTAAGGGAGGAGACACTGCC
TTTTGTGTCAGACTGAGAATTCCCTAGGGCAGTGTCTCCTCCCTTAGATTGGGAGCTCCC[CT]AAGGTAGACTGCCTC
TCTCAGCAGACTGGAGGGTCCCAAGGCGAACTGCCTCTCCCATCA
S GCTGCTCTGGAGTGGCCTGCGTTTC
S CGCGCCGAGGTCCTCCTGTACCACACY
S ATGACGTGGCAGACGCCTCCTGTACCACAY
S CATCGTGTGGTACAGGAGGAAAACGCAGGCCACTCCAGAGCAGCAG
S CATCGTGTGGTACAGGAGGCAAACGCAGGCCACTCCAGAGCAGCAG
GAGCATTAGGCATTACTAATCAAGCTGGAAGCCACATAAGCCATCGTGTGGTACAGGAGG[AC]AAACGCAGGCCACT
CCAGAGCAGCAGCCAAGATGAGGCAGCTCTGGAAAACAGGAAGGGT

FIGURE 129D

67874	I		A	CTCTTCACCGACGCACCACCTCTGGAGC
67874	P	T	A	CGCGCCGAGGTATCGAGTCCTCAGTAGGY
67874	P	A	A	ATGACGTGGCAGACAATCGAGTCCTCAGTAGGY
67874	T	T	A	AACCCCTACTGAGGACTCGATACTCCAGAGGTGGTGCGTCGGTGAAGAGGG
67874	T	A	A	AACCCCTACTGAGGACTCGATTCTCCAGAGGTGGTGCGTCGGTGAAGAGGG
				CATTCGAACCCTGGCTGGCTCCAGAGATAGCCCCTCTTCACCGACGCACCACCTCTGGAG[TA]ATCGAGTCCTCAGTA
67874	IS	[TA]		GGGGTTCTATCTGTTGAGTCCTTTTGGTCCAGACAGATAAACTTA
67879	I		S	GGCCCAGAAAATACTTCAGGCAGCACTACACCT
67879	P	T	S	CGCGCCGAGGACTTGCTATGTGACAAATTAATGY
67879	P	C	S	ATGACGTGGCAGACGCTTGCTATGTGACAAATTAATY
67879	T	T	S	GTAGCATTAATTTGTCACATAGCAAGTGGTGTAGTGCTGCCTGAAGTATTTTCTGGGCCAA
67879	T	C	S	GTAGCATTAATTTGTCACATAGCAAGCGGTGTAGTGCTGCCTGAAGTATTTTCTGGGCCAA
				CCACTGGGCCTGGCCTCACTTGGCCTTTTAAAAAGTAGCATTAATTTGTCACATAGCAAG[TC]GGTGTAGTGCTGCCT
67879	IS	[TC]		GAAGTATTTTCTGGGCCAAGATGGAATAAAATTACACAGTTAAGA
67886	I		A	GGGCAAGATTAAATGATCTCAAAGCTCCCTTTCAGA
67886	P	T	A	CGCGCCGAGGTTCAGGGACTGTGAAATAATATY
67886	P	C	A	ATGACGTGGCAGACCTCAGGGACTGTGAAATAATATY
67886	T	T	A	TACCATATTATTTCACAGTCCCTGAACTGAAAGGGAGCTTTGAGATCATTTAATCTTGCCCTC
67886	T	C	A	TACCATATTATTTCACAGTCCCTGAGCTGAAAGGGAGCTTTGAGATCATTTAATCTTGCCCTC
				TGTTCTTGCTTAATGTAAAATGAGAGGGCAAGATTAAATGATCTCAAAGCTCCCTTTCAG[TC]TCAGGGACTGTGAAAT
67886	IS	[TC]		AATATGGTAAATAGGCTTACTTAGGACCTTCTCGGGCACTAGCA
67904	I		A	AGCTGACCGTGTGGGATTGGGCTTCTTT
67904	P	A	A	CGCGCCGAGGAGTTCTGAAGAGCATGTGY
67904	P	G	A	ATGACGTGGCAGACGGTTCTGAAGAGCATGTGY
67904	T	A	A	AGACCACATGCTCTTCAGAACTAAGAAGCCCAATCCCACACGGTCAGCTCC
67904	T	G	A	AGACCACATGCTCTTCAGAACCAAGAAGCCCAATCCCACACGGTCAGCTCC
				TTTGGGAGTGGACAAAAATGTGTTCACTTAAGGAGCTGACCGTGTGGGATTGGGCTTCTT[AG]GTTCTGAAGAGCATG
67904	IS	[AG]		TGGTCTTCTCCATGGGGATAAAACAGTGGTAACGGGTGTCTATGA
67933	I		A	AGTCCAACAGAGACCTATAATTTCAGATGTGCAACAAATATACT
67933	P	C	A	CGCGCCGAGGCAAAGAGCACTTAAGAAACTACY
67933	P	G	A	ATGACGTGGCAGACGAAAGAGCACTTAAGAAACTACY
67933	T	C	A	TTCTGTAGTTTCTTAAGTGCTCTTTGGTATATTTGTTGCACATCTGAAATTATAGGTCTCTGTTGGACTCT
67933	T	G	A	TTCTGTAGTTTCTTAAGTGCTCTTTCGTATATTTGTTGCACATCTGAAATTATAGGTCTCTGTTGGACTCT
				AAAAAAAAAAATTCAAGAGTCCAACAGAGACCTATAATTTCAGATGTGCAACAAATATAC[CG]AAAGAGCACTTAAGAAA
67933	IS	[CG]		CTACAGAAAATTTTTATCCATAATGATCAATTAAAAACAGGGA
67937	I		A	CAGTGGACTTGCTAAAAAGTCACCTAGCAGAGAGAGCA
67937	P	T	A	CGCGCCGAGGTTTGCCACTTTGTTATGCY
67937	P	C	A	ATGACGTGGCAGACCTTGCCACTTTGTTATGCY
67937	T	T	A	TTTGGCATAACAAAGTGGCAAAGCTCTCTCTGCTAGGTGACTTTTTAGCAAGTCCACTGAA
67937	T	C	A	TTTGGCATAACAAAGTGGCAAGGCTCTCTCTGCTAGGTGACTTTTTAGCAAGTCCACTGAA
				ACAATATGCTACCACCTACTATTCAGTGGACTTGCTAAAAAGTCACCTAGCAGAGAGAGC[TC]TTGCCACTTTGTTATG
67937	IS	[TC]		CCAAAGGATCAAATAATGCAGAAACCATTCATTCATACAATAAA
67957	I		S	TGCATGGCCTTTAAGAATTCCCCGTCACCACA
67957	P	G	S	ATGACGTGGCAGACCGCACACTGTAGTCCCY
67957	P	A	S	CGCGCCGAGGTGCACACTGTAGTCCCY
67957	T	G	S	AAGAGGGACTACAGTGTGCGGTGGTGACGGGGAATTCTTAAAGGCCATGCAAT
67957	T	A	S	AAGAGGGACTACAGTGTGCAGTGGTGACGGGGAATTCTTAAAGGCCATGCAAT
				GGAACATCTCCAGAAATCTGAACTCACCCAGCAACTCAAGTAAGAGGGACTACAGTGTGC[GA]GTGGTGACGGGGAA
67957	IS	[GA]		TTCTTAAAGGCCATGCAATGTACTGGCAAGGGTTGAGCTTAGAGAC
67993	I		S	CAGTTGCCTCTACCAATTTAAACCCCATGCTCCAC
67993	P	A	S	CGCGCCGAGGTATTCCAGAAGTTGACGAGY
67993	P	T	S	ATGACGTGGCAGACAATTCCAGAAGTTGACGAGY
67993	T	A	S	AGGGCTCGTCAACTTCTGGAATATGGAGCATGGGGTTTAAATTGGTAGAGGCAACTGTG
67993	T	T	S	AGGGCTCGTCAACTTCTGGAATTTGGAGCATGGGGTTTAAATTGGTAGAGGCAACTGTG
				TCACGCAATTCAGATCTCAAGCTACGTTAGTCCCAATCAGGGCTCGTCAACTTCTGGAAT[AT]TGGAGCATGGGGTTT
67993	IS	[AT]		AAATTGGTAGAGGCAACTGTGATTTTTGAAAAATCAGAAAATAGT
68127	I		A	GGCCCCAGTTCCCAGTGCCAATTGAAA
68127	P	T	A	CGCGCCGAGGTAGGCCACATACAGACATY
68127	P	C	A	ATGACGTGGCAGACCAGGCCACATACAGACAY
68127	T	T	A	AGGAATGTCTGTATGTGGCCTATTCAATTGGCACTGGGAACTGGGGCCCT
68127	T	C	A	AGGAATGTCTGTATGTGGCCTGTTCAATTGGCACTGGGAACTGGGGCCCT
				TCTGGTTCCAGGCCCGTGAAGCTGGTCCTGCCAGGGCCCCAGTTCCCAGTGCCAATTGAA[TC]AGGCCACATACAGA
68127	IS	[TC]		CATTCCTCAAAAGTAGAGTTAATTAGAGGCTCAAGAACATGCAAAC
68174	I		S	TGGCTTTCAGGAGTCTTCTGTATTGTATCAGGAGGGTC
68174	P	A	S	CGCGCCGAGGTTTAAGCCTCAGGTGTTCY
68174	P	T	S	ATGACGTGGCAGACATTAAGCCTCAGGTGTTCY
68174	T	A	S	CAGTGAACACCTGAGGCTTAAAACCCTCCTGATACAATACAGAAGACTCCTGAAAGCCATA
68174	T	T	S	CAGTGAACACCTGAGGCTTAATACCCTCCTGATACAATACAGAAGACTCCTGAAAGCCATA
				TCTCCCAGTTTCCCTCCACTGGGAGCTTTGGATACATCTCAGTGAACACCTGAGGCTTAA[AT]ACCCTCCTGATACAAT
68174	IS	[AT]		ACAGAAGACTCCTGAAAGCCATATATAGGATTCAAATCCTGCCA
68197	I		A	GAGCAATTGACTGGGAGCTGGGAACAGGAAC
68197	P	T	A	CGCGCCGAGGTGAAAAGGAAGAGCTGATAAGY
68197	P	A	A	ATGACGTGGCAGACAGAAAAGGAAGAGCTGATAAGY
68197	T	T	A	GTTTCTTATCAGCTCTTCCTTTTCATTCCTGTTCCCAGCTCCCAGTCAATTGCTCTG
68197	T	A	A	GTTTCTTATCAGCTCTTCCTTTTCTTTCCTGTTCCCAGCTCCCAGTCAATTGCTCTG
				ACAGCCTTGGGGGTAGTGGCAAGGTGGCCAGAGCAATTGACTGGGAGCTGGGAACAGGAA[TA]GAAAAGGAAGAGC
68197	IS	[TA]		TGATAAGAAACATGCCCAGAGCAGGTAAGCACCTCTATCCCTCCAAT
68305	I		A	CCAAGAAGGGGCAATCGGCTTCGAAGCT
68305	P	C	A	CGCGCCGAGGCTGATGGCAGCAACTGY
68305	P	G	A	ATGACGTGGCAGACGTGATGGCAGCAACTGY
68305	T	C	A	ACCGCAGTTGCTGCCATCAGGCTTCGAAGCCGATTGCCCCTTCTTGGGG
68305	T	G	A	ACCGCAGTTGCTGCCATCACGCTTCGAAGCCGATTGCCCCTTCTTGGGG
				GAAACACTTTTTTTTTTAGTCTTCACAATTTCCCCAAGAAGGGGCAATCGGCTTCGAAGC[CG]TGATGGCAGCAACTG
68305	IS	[CG]		CGGTACAAGCACAAGGGGCGCCTCTAGTGGTCAGCTGGGAAATCG
68442	I		S	CCTCCCGTGATCCGCGCTCTTAAGCACTTAAAATTAC
68442	P	A	S	CGCGCCGAGGTTTGGGAGGAAAAATTATTAAGATTY
68442	P	C	S	ATGACGTGGCAGACGTTGGGAGGAAAAATTATTAAGATY
68442	T	A	S	AAGAAATCTTAATAATTTTTCCTCCCAAATAATTTTAAGTGCTTAAGAGCGCGGATCACGGGAGGTT
68442	T	C	S	AAGAAATCTTAATAATTTTTCCTCCCAACTAATTTTAAGTGCTTAAGAGCGCGGATCACGGGAGGTT
				GGAGAATAGATTTTTTAACATAAGAAGTCGATAAGAAATCTTAATAATTTTTCCTCCCAA[AC]TAATTTTAAGTGCTTAAG
68442	IS	[AC]		AGCGCGGATCACGGGAGGTTTCCTCTCTTTTACTTATATGAA
68502	I		S	CCTAACACCTGAGTTAAGGAATAAACTAATAGAGGAAAGAAAGAAAAATAACTTTT
68502	P	T	S	CGCGCCGAGGAGACATGAAAATATTTGTTCAGAAAY
68502	P	C	S	ATGACGTGGCAGACGGACATGAAAATATTTGTTCAGAY

FIGURE 129D

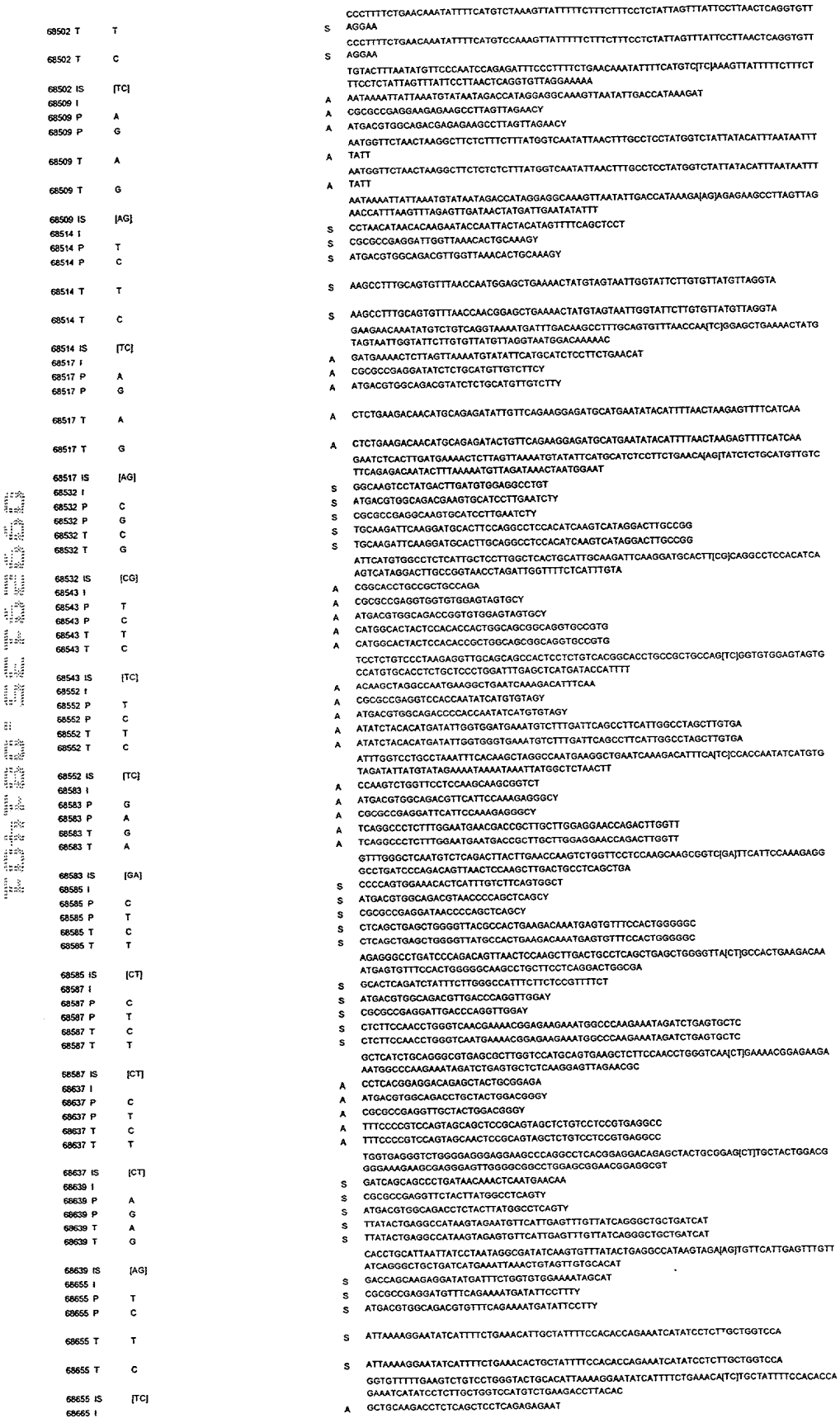
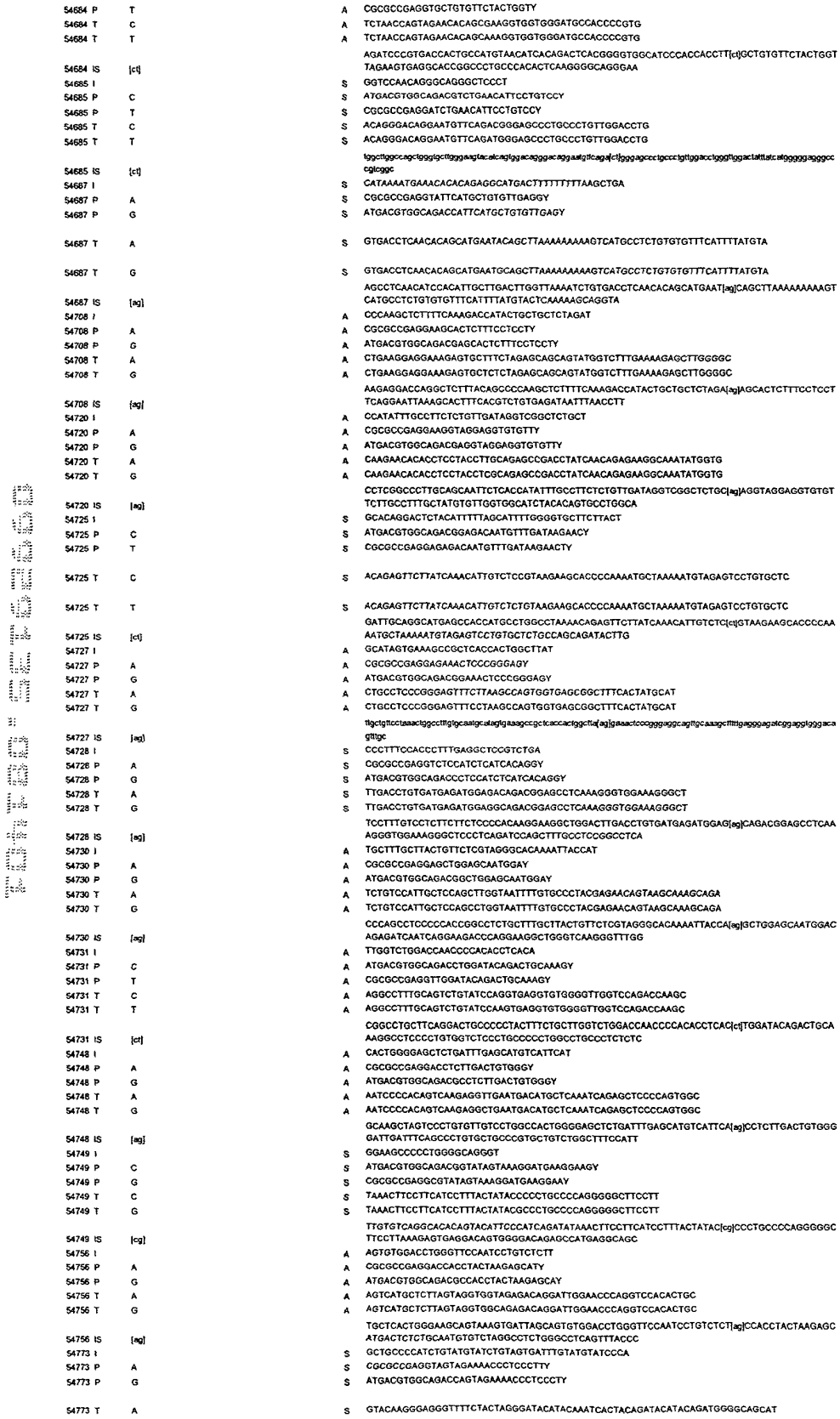


FIGURE 129D

68665 P	G		A	ATGACGTGGCAGACGCCTCATTTGCTGCGY
68665 P	A		A	CGCGCCGAGGACCTCATTTGCTGCGY
68665 T	G		A	TTGCCGCAGCAAATGAGGCTTCTCTCTGAGGAGCTGAGAGGTCTTGCAGCCT
68665 T	A		A	TTGCCGCAGCAAATGAGGTTTCTCTGAGGAGCTGAGAGGTCTTGCAGCCT
68665 IS	[GA]	GATGTGGGGTGGGAGAATGACAAGGAGAGGCTGCAAGACCTCTCAGCTCCTCAGAGAGAA[GA]CCTCATTTGCTGCG GCAAAGCCGCTTCATCAAGAAGAGACAAAAATGCATTCAAGTCCAT		
68778 I			A	CATAAGCTGAGGAATATTCTTCTTAGACATAGGGGAGAATAGGCTGATT
68778 P	G		A	ATGACGTGGCAGACGTCTTAGGATTCATAATCCATTTTCY
68778 P	A		A	CGCGCCGAGGATCTTAGGATTCATAATCCATTTTCY
68778 T	G		A	ATATGAAAATGGATTATGAATCCTAAGACATCAGCCTATTCTCCCCTATGTCTAAGAAGAATATTCCTCAGCTTATGAC
68778 T	A		A	ATATGAAAATGGATTATGAATCCTAAGATATCAGCCTATTCTCCCCTATGTCTAAGAAGAATATTCCTCAGCTTATGAC
68778 IS	[GA]	AGACATTCCAGTCATAAGCTGAGGAATATTCTTCTTAGACATAGGGGAGAATAGGCTGAT[GA]TCTTAGGATTCATAAT CCATTTTCATATAGTTCCGTGACCTTACTTTTGTCCTGACAAAA		
68785 I			S	ACGAGGGTGACGTGGCTGTCCCCT
68785 P	C		S	ATGACGTGGCAGACGTGCTCCAGGGATAAGGY
68785 P	T		S	CGCGCCGAGGATGCTCCAGGGATAAGGY
68785 T	C		S	ATCTCCTTATCCCTGGAGCACGGGGACAGCCACGTCACCCTCGTCA
68785 T	T		S	ATCTCCTTATCCCTGGAGCATGGGGACAGCCACGTCACCCTCGTCA
68785 IS	[CT]	AGAGCAGACATTTCCTGAGGACAGGAGCAGAGTCCCCAGTATCTCCTTATCCCTGGAGCA[CT]GGGGACAGCCACGT CACCCTCGTCACCCGCAACCTCTCTGAGCCACAGCTACAGGGGGGA		
68851 I			S	CCCAGGCTGCTGACCACCTGCCATAC
68851 P	A		S	CGCGCCGAGGTCCTCTTTTCCTTAGATCATACY
68851 P	T		S	ATGACGTGGCAGACACCTCTTTTCCTTAGATCATACY
68851 T	A		S	CAATGTATGATCTAAGGAAAAGAGGATATGGCAGGTGGTCAGCAGCCTGGGCT
68851 T	T		S	CAATGTATGATCTAAGGAAAAGAGGTTATGGCAGGTGGTCAGCAGCCTGGGCT
68851 IS	[AT]	TTATGTAGTGTTTGAGTGCTTGCTTGCTTGTTTCTCAATGTATGATCTAAGGAAAAGAGG[AT]TATGGCAGGTGGTCAG CAGCCTGGGCTATGTTTTCTTTTTTTTTTTCTTTTCTTTTAAA		
68859 I			A	GTTATAAAAATAGATCACTGCATCTTTATAAAAATGTTAATAAAAAATTATTCAGCCAGCT
68859 P	A		A	CGCGCCGAGGATCATAAAAGCAAATGAATGAAATACY
68859 P	C		A	ATGACGTGGCAGACCTCATAAAAGCAAATGAATGAAATACY
68859 T	A	GCATGTATTTCATTCATTTGCTTTTATGATGCTGGCTGAATAATTTTTTATTAACATTTTATAAAGATGCAGTGATCTAT TTTTATAAC	A	TTTTATAAC
68859 T	C	GCATGTATTTCATTCATTTGCTTTTATGAGGCTGGCTGAATAATTTTTTATTAACATTTTATAAAGATGCAGTGATCTAT TTTTATAAC	A	TTTTATAAC
68859 IS	[AC]	GTTATAAAAATAGATCACTGCATCTTTATAAAAATGTTAATAAAAAATTATTCAGCCAGC[AC]TCATAAAAGCAAATGAAT GAAATACATGCGAACTACTCGGAAAAGTGCAAGCTAGAAAGG		
68866 I			A	GAACAGGAGCTTTGGGAGCAAATTAGCTGCGTAGT
68866 P	G		A	ATGACGTGGCAGACGCAAGTTAGCCATAGTAGAATY
68866 P	A		A	CGCGCCGAGGACAAGTTAGCCATAGTAGAATCY
68866 T	G		A	TTCTGATTCTACTATGGCTAACTTGCCTACGCAGCTAATTTGCTCCCAAAGCTCCTGTTCCA
68866 T	A		A	TTCTGATTCTACTATGGCTAACTTGTCTACGCAGCTAATTTGCTCCCAAAGCTCCTGTTCCA
68866 IS	[GA]	AGGAACCTCAAAAAGGGTGTGGAATGGAACAGGAGCTTTGGGAGCAAATTAGCTGCGTAG[GA]CAAGTTAGCCATAG TAGAATCAGAAACTTGCTATTTATACAAGTTGGATGGATTTTCATT		
68867 I			A	GGCCACCTGTTCAGGCATTTCTTTTCACCCT
68867 P	G		A	ATGACGTGGCAGACGGACACTTGCTTTCAAAAACY
68867 P	A		A	CGCGCCGAGGAGACACTTGCTTTCAAAAACY
68867 T	G		A	AAATGTTTTTGAAAGCAAGTGTCCGGGTGAAAAGAAATGCCTGAACAGGTGGCCAC
68867 T	A		A	AAATGTTTTTGAAAGCAAGTGTCTGGGTGAAAAGAAATGCCTGAACAGGTGGCCAC
68867 IS	[GA]	GAGGAAAGTAAGACTCAGGAAAACAGCTGTGGCCACCTGTTCAGGCATTTCTTTTCACCC[GA]GACACTTGCTTTCAA AAACATTTGTCTTCTTAAACCTTCAATAACTCATTCTTTTATTTT		
68878 I			A	TGGTAAGTTTCGCTTGCTCCTGGCCTTTGATATTAAGTC
68878 P	G		A	ATGACGTGGCAGACGTGTGGCCTGGTATAAATCY
68878 P	T		A	CGCGCCGAGGTTGTGGCCTGGTATAAATCY
68878 T	G		A	TCTGGATTTATACCAGGCCACACACTTAATATCAAAGGCCAGGAGCAAGCGAAACTTACCAGT
68878 T	T		A	TCTGGATTTATACCAGGCCACAAACTTAATATCAAAGGCCAGGAGCAAGCGAAACTTACCAGT
68878 IS	[GT]	CTGCCCCTCGAGGCTCAGGAACTGGTAAGTTTCGCTTGCTCCTGGCCTTTGATATTAAGT[GT]TGTGGCCTGGTATAA ATCCAGAAATTTATTTATGAGGAGGTCTGTAACTTGAAGAGCCTC		
68916 I			A	CGTACAGTACAGGAAGGGGATTGAACAGAATACTTTTAATGGAAAACTCT
68916 P	G		A	ATGACGTGGCAGACGTGCTTGCATTTAATCTTTTGY
68916 P	A		A	CGCGCCGAGGATGCTTGCATTTAATCTTTTGY
68916 T	G		A	TTTGCAAAAGATTAAATGCAAGCACGAGTTTTCCATTAAAAGTATTCTGTTCAATCCCCTTCCTGTACTGTACGTT
68916 T	A		A	TTTGCAAAAGATTAAATGCAAGCATGAGTTTTCCATTAAAAGTATTCTGTTCAATCCCCTTCCTGTACTGTACGTT
68916 IS	[GA]	CTGCATTCAAACGTACAGTACAGGAAGGGGATTGAACAGAATACTTTTAATGGAAAACTC[GA]TGCTTGCATTTAATCT TTTGCAAATTAGCAATGCTGTATATTTTATGTCCTGTTCCTTTC		
68918 I			A	TGGTATATTTAACAAATAATGTATGCAAACAGTTCAGGTGACACATAATATCT
68918 P	C		A	ATGACGTGGCAGACCGAGTAGCTATAAACTGTTATCAY
68918 P	A		A	CGCGCCGAGGAGAGTAGCTATAAACTGTTATCAGY
68918 T	C	CAAACTGATAACAGTTTATAGCTACTCGGATATTATGTGTCACCTGAACTGTTTGCATACATTATTTGTTAAATATACCA CA	A	CA
68918 T	A	CAAACTGATAACAGTTTATAGCTACTCTGATATTATGTGTCACCTGAACTGTTTGCATACATTATTTGTTAAATATACCA CA	A	CA
68918 IS	[CA]	TCTGACTGTGGTATATTTAACAAATAATGTATGCAAACAGTTCAGGTGACACATAATATC[CA]GAGTAGCTATAAACTGT TATCAGTTTGAACTTTCAAGAGATGGTAAGAAGGAAAATTAGG		
68919 I			A	AAAGGGAACAACCCGACTTCTCTGGTGATATATTTT
68919 P	G		A	ATGACGTGGCAGACGGAGACTTAGTGAAATATTCTGTY
68919 P	C		A	CGCGCCGAGGCGAGACTTAGTGAAATATTCTGTY
68919 T	G		A	AAAAACAGAATATTTCACTAAGTCTCCAAATATATCACCAGAGAAGTCGGGTTGTTCCCTTTTG
68919 T	C		A	AAAAACAGAATATTTCACTAAGTCTCGAAATATATCACCAGAGAAGTCGGGTTGTTCCCTTTTG
68919 IS	[GC]	TCCTACTGTTAGCATCATTAAACCAAAAGGGAACAACCCGACTTCTCTGGTGATATATTT[GC]GAGACTTAGTGAAATA TTCTGTTTTTTCTTTTTTAACAACTCCCAATACGGATTCCCATA		
68938 I			A	ACCTTAGGTGGTTTTGAAAAATTACCTGAACCAAAGAACATGAGAGAAAATT
68938 P	C		A	ATGACGTGGCAGACCTATTCTTTAACAAGGGAGCAY
68938 P	A		A	CGCGCCGAGGATATTCTTTAACAAGGGAGCAY
68938 T	C		A	ACTCTGCTCCCTTGTTAAAGAATAGATTTTCTCTCATGTTCTTTGGTTCAGGTAATTTTTCAAAACCACCTAAGGTAA
68938 T	A		A	ACTCTGCTCCCTTGTTAAAGAATATATTTTCTCTCATGTTCTTTGGTTCAGGTAATTTTTCAAAACCACCTAAGGTAA
68938 IS	[CA]	TTACTAATTACCTTAGGTGGTTTTGAAAAATTACCTGAACCAAAGAACATGAGAGAAAAT[CA]TATTCTTTAACAAGGGA GCAGAGTGGACACAGAGAAAGTAGCATTCACTAATCCGAGAGG		
69043 I			A	GGCTGGAACCACTACAGTTTGTTCACCAAGAAAAAATCTACAAA
69043 P	T		A	CGCGCCGAGGTACTAAACACTGGTAAGTATATTGCY
69043 P	C		A	ATGACGTGGCAGACCACTAAACACTGGTAAGTATATTGCY
69043 T	T		A	ACGTGCAATATACTTACCAGTGTTTAGTATTGTAGATTTTTTCTTGGTGAACAAACTGTAGTGGTTCCAGCCAT

69043 T	C	A	ACGTGCAATATACTTACCAGTGTTTAGTGTTGTAGATTTTTTCTTGGTGAACAAACTGTAGTGGTTCCAGCCAT
69043 IS	[TC]		CTCTTTCACTATTACATGGCTGGAACCACTACAGTTTGTTCACCAAGAAAAAATCTACAA[TC]ACTAAACACTGGTAAGT ATATTGCACGTATATTATTTAAAATAGGGAAAAAGACTAATTT
69044 I		A	CACAAGAAAGCAAGAGCTGCCAGGGCCA
69044 P	C	A	ATGACGTGGCAGACCCTTCCAGCAGGGAGY
69044 P	T	A	CGCGCCGAGGTCTTCCAGCAGGGAGY
69044 T	C	A	CAGCCTCCCTGCTGGAAGGGCCCTGGCAGCTCTTGCTTTCTTGTGGG
69044 T	T	A	CAGCCTCCCTGCTGGAAGAGGCCCTGGCAGCTCTTGCTTTCTTGTGGG
69044 IS	[CT]		AAAATACGCCTCATCTTCAAAATCCCAAAACCCCACAAGAAAGCAAGAGCTGCCAGGGCC[CT]CTTCCAGCAGGGAGG CTGACCCTGCGCCAGCGCCCACCTGAGCATGATGCCGTTCATGCG
69062 I		A	AGCAGGAATGGGAGGAGAGGGGCCA
69062 P	T	A	CGCGCCGAGGTGCTGATATCCTGAGGGY
69062 P	C	A	ATGACGTGGCAGACCGCTGATATCCTGAGGGY
69062 T	T	A	CTCTCCCTCAGGATATCAGCAGGCCCCTCTCCTCCCATTCCTGCTGA
69062 T	C	A	CTCTCCCTCAGGATATCAGCGGGCCCCTCTCCTCCCATTCCTGCTGA
69062 IS	[TC]		CTCCTGAGGGGCATGGGGATGGGGCGGGGGTGGGTCAGCAGGAATGGGAGGAGAGGGGCC[TC]GCTGATATCCTG AGGGAGAGGTGGTCAGAGAGAGGCATCCTGGGGAGGCCAGCCCTGCAC
69188 I		A	AGGACCCCAATAGACATTTAACTGTTATTTATAGATCAAAAAAACCACT
69188 P	G	A	ATGACGTGGCAGACGTAAACACTGAAAACTTGCATY
69188 P	A	A	CGCGCCGAGGATAAACACTGAAAACTTGCATTY
69188 T	G	A	GATAAATGCAAGTTTTCAGTGTTTACGTGGTTTTTTTGATCTATAAATAACAGTTAAAATGTCTATTGGGGTCCTTA
69188 T	A	A	GATAAATGCAAGTTTTCAGTGTTTATGTGGTTTTTTTGATCTATAAATAACAGTTAAAATGTCTATTGGGGTCCTTA
69188 IS	[GA]		AGAGTTAAATAAGGACCCCAATAGACATTTTAACTGTTATTTATAGATCAAAAAAACCAC[GA]TAAACACTGAAAACTTG CATTTATCCTGAGCAGAACTGCTTTTACAGAATCCACAAATCC
75840 I		S	ACCAAAAGGAGGAACAGCCGTGTCATCAAGGT
75840 P	C	S	ATGACGTGGCAGACGTTCTGAGGAGGTGGTY
75840 P	T	S	CGCGCCGAGGATTCTGAGGAGGTGGTCY
75840 T	C	S	GCTGGACCACCTCCTCAGAACCCTTGATGACACGGCTGTTCCTCCTTTTGGTGA
75840 T	T	S	GCTGGACCACCTCCTCAGAATCCTTGATGACACGGCTGTTCCTCCTTTTGGTGA
75840 IS	[CT]		GGCTGCCGAGACTTCTCCAACTCAGTGATCAGGGTCCCAAGCTGGACCACCTCCTCAGAA[CT]CCTTGATGACACGG CTGTTCCTCCTTTTGGTGAGTTCTTGCTCTAGCCCTACCAGCTGCT
76072 I		S	GGGCAGAAGCCCCACTTGCGGTCT
76072 P	C	S	ATGACGTGGCAGACGTCATCGTAGTTGGCTGY
76072 P	T	S	CGCGCCGAGGATCATCGTAGTTGGCTGTY
76072 T	C	S	GACCACAGCCAACTACGATGACGACCGCAAGTGGGGCTTCTGCCCTG
76072 T	T	S	GACCACAGCCAACTACGATGATGACCGCAAGTGGGGCTTCTGCCCTG
76072 IS	[CT]		CACCAGCGCCGGCCGCAGTGACGGAAAGATGTGGTGTGCGACCACAGCCAACTACGATGA[CT]GACCGCAAGTGGG GCTTCTGCCCTGACCAAGGTACGAGGCCCTGGTCATTGGACAGAGAC
54657 I		A	GCTGTACTACTTAGTTATGAGAACCCAAACTGTCACCAGGCT
54657 P	A	A	CGCGCCGAGGAGTGCTAAATCTCTCTGGGY
54657 P	G	A	ATGACGTGGCAGACGGTGCTAAATCTCTCTGGY
54657 T	A	A	TCTTCCCAGAGAGATTTAGCACTGCCTGGTGACAGTTTGGGTTCTCATAACTAAGTAGTACAGCGG
54657 T	G	A	TCTTCCCAGAGAGATTTAGCACCGCCTGGTGACAGTTTGGGTTCTCATAACTAAGTAGTACAGCGG
54657 IS	[ag]		ATTCTAGATGTCAGTGCCCGCTGTACTACTTAGTTATGAGAACCCAAACTGTCACCAGGC[ag]GTGCTAAATCTCTCTG GGAAGAATGTCATCCCCTGAGAACTGCTGTTCTAAAGGAACCTA
54663 I		S	GCGAAGCTCTTACACAGCCAGAGTCTGAAATGACTT
54663 P	G	S	ATGACGTGGCAGACCCAGCTTTTCTGCCGY
54663 P	T	S	CGCGCCGAGGACAGCTTTTCTGCCGY
54663 T	G	S	TCCCCGGCAGAAAAGCTGGAGTCATTTCAGACTCTGGCTGTGTAAGAGCTTCGCTG
54663 T	T	S	TCCCCGGCAGAAAAGCTGTAGTCATTTCAGACTCTGGCTGTGTAAGAGCTTCGCTG
54663 IS	[gt]		ttgtgtaatcctcgtggaaagaatgatttggttccatgtaatcccggcagaaaagctg[gt]agtcattcagactctggctgtgtaagagcttcgctggtgaggggccagctggacg gag
54664 I		A	CACAGCAAAGTGCAGCATCCCACCCAGC
54664 P	G	A	ATGACGTGGCAGACGTCTAAGAGGGGAGTTTCTY
54664 P	T	A	CGCGCCGAGGTTCTAAGAGGGGAGTTTCTY
54664 T	G	A	GTTGAGAAACTCCCCTCTTAGACCTGGGTGGGATGCTGCACTTTGCTGTGCT
54664 T	T	A	GTTGAGAAACTCCCCTCTTAGAACTGGGTGGGATGCTGCACTTTGCTGTGCT
54664 IS	[gt]		AGGGCAAAAAAACATCCTGCCTCCCATGGGGAGCACAGCAAAGTGCAGCATCCCACCCAG[gt]TCTAAGAGGGGAGTT TCTCAACCTCAGCCTCTGGAGCTGGATGACTGTGTTAGGGGGCTG
54665 I		A	CCCCTTCCTCACACTCTTCAACCCAGGGC
54665 P	A	A	CGCGCCGAGGACTAAAGCAATTGTCCCCY
54665 P	T	A	ATGACGTGGCAGACTCTAAAGCAATTGTCCCCY
54665 T	A	A	TACTGGGGACAATTGCTTTAGTCCCTGGGTTGAAGAGTGTGAGGAAGGGGGC
54665 T	T	A	TACTGGGGACAATTGCTTTAGACCCTGGGTTGAAGAGTGTGAGGAAGGGGGC
54665 IS	[at]		GGGTTCCTCCCCACCTTTCCAGCCTTTTTGGCCCCCTTCCTCACACTCTTCAACCCAGGG[at]CTAAAGCAATTGTCCC CAGTATAACTTACTCTTCAGGGTCCATGCTTGAGCTGTTTGCTC
54666 I		A	CAGTTGCTCGTTGAAGTATGGGGTCTTCCAGTCTT
54666 P	A	A	CGCGCCGAGGAGAGGAAGGCATCAGAGY
54666 P	G	A	ATGACGTGGCAGACGGAGGAAGGCATCAGAY
54666 T	A	A	TGGTCTCTGATGCCTTCCTCTAGACTGGAAGACCCCATACTTCAACGAGCAACTGTC
54666 T	G	A	TGGTCTCTGATGCCTTCCTCCAGACTGGAAGACCCCATACTTCAACGAGCAACTGTC
54666 IS	[ag]		AGACTCACGGGGTGGGACTCTGCTGACAGTTGCTCGTTGAAGTATGGGGTCTTCCAGTCT[ag]GAGGAAGGCATCAG AGACCAGGGCAGCAGCAGGGCTGGTTCCTTCTGGGGCTGTGAGAAT
54668 I		S	GAGCCCACCCATACAGCTCTTCATGCTCAT
54668 P	C	S	ATGACGTGGCAGACGAGTAAAAGTGGCCAGCY
54668 P	T	S	CGCGCCGAGGAAGTAAAAGTGGCCAGCY
54668 T	C	S	CCACGCTGGCCACTTTTACTCTGAGCATGAAGAGCTGTATGGGTGGGCTCAG
54668 T	T	S	CCACGCTGGCCACTTTTACTTTGAGCATGAAGAGCTGTATGGGTGGGCTCAG
54668 IS	[ct]		GAACAGGTTTGCTTCACAGACTCTCTCCCAGGGCAGAACCCCACGCTGGCCACTTTTACT[ct]TGAGCATGAAGAGCT GTATGGGTGGGCTCAGTAAGGGCTGCTCCTGGCCTGCTCCCTCCC
54671 I		S	CCAAGATGGTCCTGGATTTTGCCTGCTATTCCAGT
54671 P	C	S	ATGACGTGGCAGACGATAATTATTCACAACACCTTGTTY
54671 P	T	S	CGCGCCGAGGAATAATTATTCACAACACCTTGTTY
54671 T	C	S	GTAGAACAAGGTGTTGTGAATAATTATCCTGGAATAGCAGGCAAAATCCAGGACCATCTTGGGC
54671 T	T	S	GTAGAACAAGGTGTTGTGAATAATTATTCTGGAATAGCAGGCAAAATCCAGGACCATCTTGGGC
54671 IS	[ct]		GTAAGTTTGTATCCAAGCAGGACCCTTTTGGAAGTAGAACAAGGTGTTGTGAATAATTAT[ct]CTGGAATAGCAGGCAA AATCCAGGACCATCTTGGGCAAATTGGGATGTTTGGTCACCCTC
54682 I		A	CCCATAGCCAATGATAGGGCCCCAAACAACAT
54682 P	C	A	CGCGCCGAGGCTCTATCCCAGGAATCAGCY
54682 P	G	A	ATGACGTGGCAGACGTCTATCCCAGGAATCAGY
54682 T	C	A	ATTTGCTGATTCCTGGGATAGAGTGTTGTTTGGGGCCCTATCATTGGCTATGGGAC
54682 T	G	A	ATTTGCTGATTCCTGGGATAGACTGTTGTTTGGGGCCCTATCATTGGCTATGGGAC
54682 IS	[cg]		AAACAGACATTCAGAACCTGACCCAGGGTCCCATAGCCAATGATAGGGCCCCAAACAACA[cg]TCTATCCCAGGAATCA GCAAATTTTTTTCTGTAAAGAACCAGCCAGTAAATATCTTGGGC
54684 I		A	CGGGGTGGCATCCCACCACCTTA
54684 P	C	A	ATGACGTGGCAGACCGCTGTGTTCTACTGGY

FIGURE 129D


54684 P T A CGCGCCGAGGTGCTGTGTTCTACTGGTY
54684 T C A TCTAACCAGTAGAACACAGCGAAGGTGGTGGGATGCCACCCCGTG
54684 T T A TCTAACCAGTAGAACACAGCAAAGGTGGTGGGATGCCACCCCGTG
AGATCCCGTGACCACTGCCATGTAACATCACAGACTCACGGGGTGGCATCCCACCACCTT[ct]GCTGTGTTCTACTGGT
54684 IS [ct] TAGAAGTGAGGCACCGGCCCTGCCCACACTCAAGGGGCAGGGAA
54685 I S GGTCCAACAGGGCAGGGCTCCCT
54685 P C S ATGACGTGGCAGACGTCTGAACATTCCTGTCCY
54685 P T S CGCGCCGAGGATCTGAACATTCCTGTCCY
54685 T C S ACAGGGACAGGAATGTTCAGACGGGAGCCCTGCCCTGTTGGACCTG
54685 T T S ACAGGGACAGGAATGTTCAGATGGGAGCCCTGCCCTGTTGGACCTG
tggcttggccagctgggtgcttgggaagtacatcagtggacagggacaggaatgttcaga[ct]gggagccctgcccttgttggacctgggttggactatttatcatgggggagggcc
54685 IS [ct] cgtcggc
54687 I S CATAAAATGAAACACACAGAGGCATGACTTTTTTTTTAAGCTGA
54687 P A S CGCGCCGAGGTATTCATGCTGTGTTGAGGY
54687 P G S ATGACGTGGCAGACCATTCATGCTGTGTTGAGY
54687 T A S GTGACCTCAACACAGCATGAATACAGCTTAAAAAAAAAGTCATGCCTCTGTGTGTTTCATTTTATGTA
54687 T G S GTGACCTCAACACAGCATGAATGCAGCTTAAAAAAAAAGTCATGCCTCTGTGTGTTTCATTTTATGTA
AGCCTCAACATCCACATTGCTTGACTTGGTTAAAATCTGTGACCTCAACACAGCATGAAT[ag]CAGCTTAAAAAAAAAGT
54687 IS [ag] CATGCCTCTGTGTGTTTCATTTTATGTACTCAAAAAGCAGGTA
54708 I A CCCAAGCTCTTTTCAAAGACCATACTGCTGCTCTAGAT
54708 P A A CGCGCCGAGGAAGCACTCTTTCCTCCTY
54708 P G A ATGACGTGGCAGACGAGCACTCTTTCCTCCTY
54708 T A A CTGAAGGAGGAAAGAGTGCTTTCTAGAGCAGCAGTATGGTCTTTGAAAAGAGCTTGGGGC
54708 T G A CTGAAGGAGGAAAGAGTGCTCTCTAGAGCAGCAGTATGGTCTTTGAAAAGAGCTTGGGGC
AAGAGGACCAGGCTCTTTACAGCCCCAAGCTCTTTTCAAAGACCATACTGCTGCTCTAGA[ag]AGCACTCTTTCCTCCT
54708 IS [ag] TCAGGAATTAAAGCACTTTCACGTCTGTGAGATAATTTAACCTT
54720 I A CCATATTTGCCTTCTCTGTTGATAGGTCGGCTCTGCT
54720 P A A CGCGCCGAGGAAGGTAGGAGGTGTGTTY
54720 P G A ATGACGTGGCAGACGAGGTAGGAGGTGTGTTY
54720 T A A CAAGAACACACCTCCTACCTTGCAGAGCCGACCTATCAACAGAGAAGGCAAATATGGTG
54720 T G A CAAGAACACACCTCCTACCTCGCAGAGCCGACCTATCAACAGAGAAGGCAAATATGGTG
CCTCGGCCCTTGCAGCAATTCTCACCATATTTGCCTTCTCTGTTGATAGGTCGGCTCTGC[ag]AGGTAGGAGGTGTGT
54720 IS [ag] TCTTGCCTTTGCTATGTGTTGGTGGCATCTACACAGTGCCTGGCA
54725 I S GCACAGGACTCTACATTTTTAGCATTTTGGGGTGCTTCTTACT
54725 P C S ATGACGTGGCAGACGGAGACAATGTTTGATAAGAACY
54725 P T S CGCGCCGAGGAGAGACAATGTTTGATAAGAACTY
54725 T C S ACAGAGTTCTTATCAAACATTGTCTCCGTAAGAAGCACCCCAAAATGCTAAAAATGTAGAGTCCTGTGCTC
54725 T T S ACAGAGTTCTTATCAAACATTGTCTCTGTAAGAAGCACCCCAAAATGCTAAAAATGTAGAGTCCTGTGCTC
GATTGCAGGCATGAGCCACCATGCCTGGCCTAAAACAGAGTTCTTATCAAACATTGTCTC[ct]GTAAGAAGCACCCCAA
54725 IS [ct] AATGCTAAAAATGTAGAGTCCTGTGCTCTGCCAGCAGATACTTG
54727 I A GCATAGTGAAAGCCGCTCACCACTGGCTTAT
54727 P A A CGCGCCGAGGAGAAACTCCCGGGAGY
54727 P G A ATGACGTGGCAGACGGAAACTCCCGGGAGY
54727 T A A CTGCCTCCCGGGAGTTTCTTAAGCCAGTGGTGAGCGGCTTTCACTATGCAT
54727 T G A CTGCCTCCCGGGAGTTTCCTAAGCCAGTGGTGAGCGGCTTTCACTATGCAT
ttgctgttcctaaactggccttttgtgcaatgcatagtgtaaagccgctcaccactggctta[ag]gaaactcccgggaggcagttgcaaagctttttgagggagatcggagggtgggaca
54727 IS [ag] gtttgc
54728 I S CCCTTTCCACCCTTTGAGGCTCCGTCTGA
54728 P A S CGCGCCGAGGTCTCCATCTCATCACAGGY
54728 P G S ATGACGTGGCAGACCCTCCATCTCATCACAGGY
54728 T A S TTGACCTGTGATGAGATGGAGACAGACGGAGCCTCAAAGGGTGGAAAGGGCT
54728 T G S TTGACCTGTGATGAGATGGAGGCAGACGGAGCCTCAAAGGGTGGAAAGGGCT
TCCTTTGTCCTCTTCTTCTCCCCACAAGGAAGGCTGGACTTGACCTGTGATGAGATGGAG[ag]CAGACGGAGCCTCAA
54728 IS [ag] AGGGTGGAAAGGGCTCCCTCAGATCCAGCTTTGCCTCCGGCCTCA
54730 I A TGCTTTGCTTACTGTTCTCGTAGGGCACAAAATTACCAT
54730 P A A CGCGCCGAGGAGCTGGAGCAATGGAY
54730 P G A ATGACGTGGCAGACGGCTGGAGCAATGGAY
54730 T A A TCTGTCCATTGCTCCAGCTTGGTAATTTTGTGCCCTACGAGAACAGTAAGCAAAGCAGA
54730 T G A TCTGTCCATTGCTCCAGCCTGGTAATTTTGTGCCCTACGAGAACAGTAAGCAAAGCAGA
CCCAGCCTCCCCCACCGGCCTCTGCTTTGCTTACTGTTCTCGTAGGGCACAAAATTACCA[ag]GCTGGAGCAATGGAC
54730 IS [ag] AGAGATCAATCAGGAAGACCCAGGAAGGCTGGGTCAAGGGTTTGG
54731 I A TTGGTCTGGACCAACCCCACACCTCACA
54731 P C A ATGACGTGGCAGACCTGGATACAGACTGCAAAGY
54731 P T A CGCGCCGAGGTTGGATACAGACTGCAAAGY
54731 T C A AGGCCTTTGCAGTCTGTATCCAGGTGAGGTGTGGGGTTGGTCCAGACCAAGC
54731 T T A AGGCCTTTGCAGTCTGTATCCAAGTGAGGTGTGGGGTTGGTCCAGACCAAGC
CGGCCTGCTTCAGGACTGCCCCCTACTTTCTGCTTGGTCTGGACCAACCCCACACCTCAC[ct]TGGATACAGACTGCA
54731 IS [ct] AAGGCCTCCCCTGTGGTCTCCCTGCCCCCTGGCCTGCCCTCTCTC
54748 I A CACTGGGGAGCTCTGATTTGAGCATGTCATTCAT
54748 P A A CGCGCCGAGGACCTCTTGACTGTGGGY
54748 P G A ATGACGTGGCAGACGCCTCTTGACTGTGGGY
54748 T A A AATCCCCACAGTCAAGAGGTTGAATGACATGCTCAAATCAGAGCTCCCCAGTGGC
54748 T G A AATCCCCACAGTCAAGAGGCTGAATGACATGCTCAAATCAGAGCTCCCCAGTGGC
GCAAGCTAGTCCCTGTGTTGTCCTGGCCACTGGGGAGCTCTGATTTGAGCATGTCATTCA[ag]CCTCTTGACTGTGGG
54748 IS [ag] GATTGATTTCAGCCCTGTGCTGCCCGTGCTGTCTGGCTTTCCATT
54749 I S GGAAGCCCCCTGGGGCAGGGT
54749 P C S ATGACGTGGCAGACGGTATAGTAAAGGATGAAGGAAGY
54749 P G S CGCGCCGAGGCGTATAGTAAAGGATGAAGGAAY
54749 T C S TAAACTTCCTTCATCCTTTACTATACCCCCTGCCCCAGGGGGCTTCCTT
54749 T G S TAAACTTCCTTCATCCTTTACTATACGCCCTGCCCCAGGGGGCTTCCTT
TTGTGTCAGGCACACAGTACATTCCCATCAGATATAAACTTCCTTCATCCTTTACTATAC[cg]CCCTGCCCCAGGGGGC
54749 IS [cg] TTCCTTAAAGAGTGAGGACAGTGGGGACAGAGCCATGAGGCAGC
54756 I A AGTGTGGACCTGGGTTCCAATCCTGTCTCTT
54756 P A A CGCGCCGAGGACCACCTACTAAGAGCATY
54756 P G A ATGACGTGGCAGACGCCACCTACTAAGAGCAY
54756 T A A AGTCATGCTCTTAGTAGGTGGTAGAGACAGGATTGGAACCCAGGTCCACACTGC
54756 T G A AGTCATGCTCTTAGTAGGTGGCAGAGACAGGATTGGAACCCAGGTCCACACTGC
TGCTCACTGGGAAGCAGTAAAGTGATTAGCAGTGTGGACCTGGGTTCCAATCCTGTCTCT[ag]CCACCTACTAAGAGC
54756 IS [ag] ATGACTCTCTGCAATGTGTCTAGGCCTCTGGGCCTCAGTTTACCC
54773 I S GCTGCCCCATCTGTATGTATCTGTAGTGATTTGTATGTATCCCA
54773 P A S CGCGCCGAGGTAGTAGAAAACCCTCCCTTY
54773 P G S ATGACGTGGCAGACCAGTAGAAAACCCTCCCTY
54773 T A S GTACAAGGGAGGGTTTTCTACTAGGGATACATACAAATCACTACAGATACATACAGATGGGGCAGCAT

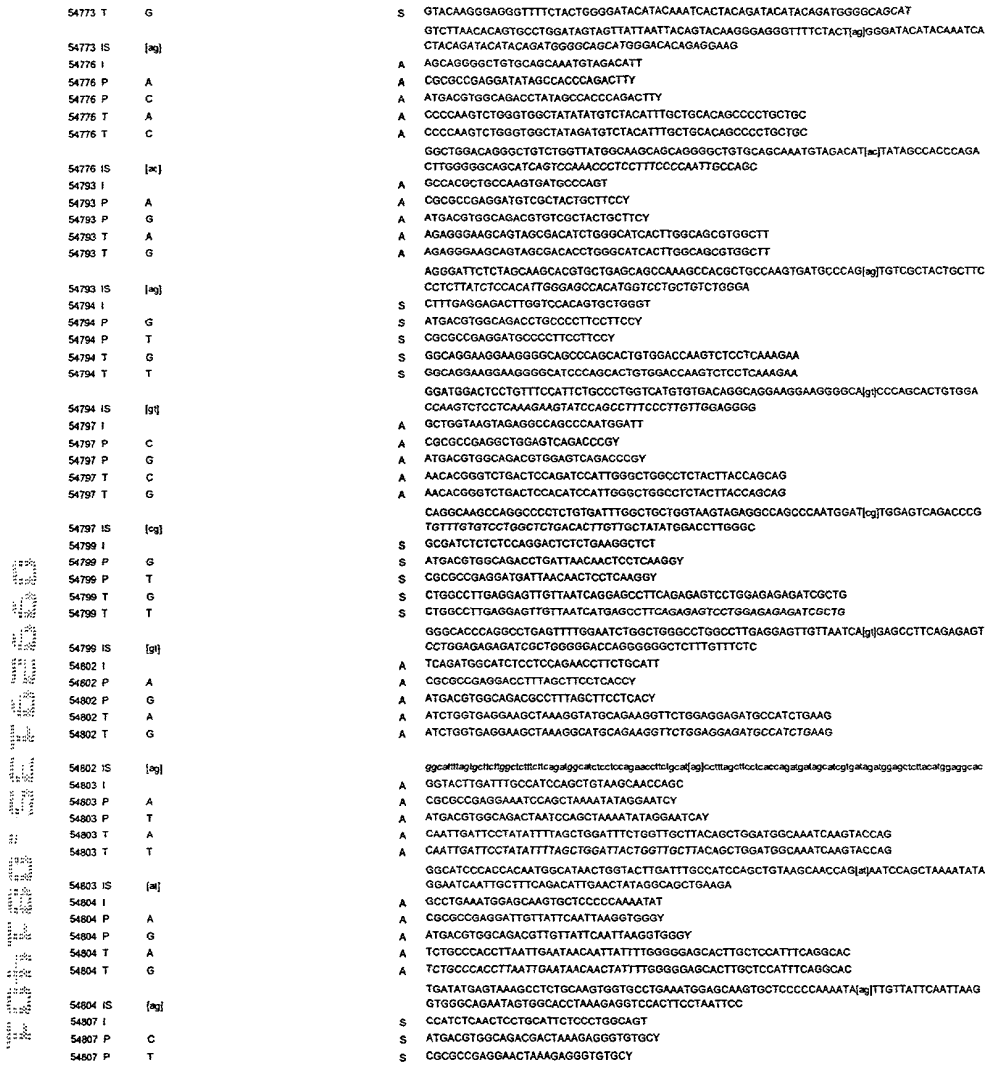

54773 T G S GTACAAGGGAGGGTTTTCTACTGGGGATACATACAAATCACTACAGATACATACAGATGGGGCAGCAT
GTCTTAACACAGTGCCTGGATAGTAGTTATTAATTACAGTACAAGGGAGGGTTTTCTACT[ag]GGGATACATACAAATCA
54773 IS [ag] CTACAGATACATACAGATGGGGCAGCATGGGACACAGAGGAAG
54776 I A AGCAGGGGCTGTGCAGCAAATGTAGACATT
54776 P A A CGCGCCGAGGATATAGCCACCCAGACTTY
54776 P C A ATGACGTGGCAGACCTATAGCCACCCAGACTTY
54776 T A A CCCCAAGTCTGGGTGGCTATATATGTCTACATTTGCTGCACAGCCCCTGCTGC
54776 T C A CCCCAAGTCTGGGTGGCTATAGATGTCTACATTTGCTGCACAGCCCCTGCTGC
GGCTGGACAGGGCTGTCTGGTTATGGCAAGCAGCAGGGGCTGTGCAGCAAATGTAGACAT[ac]TATAGCCACCCAGA
54776 IS [ac] CTTGGGGGCAGCATCAGTCCAAACCCTCCTTTCCCCAATTGCCAGC
54793 I A GCCACGCTGCCAAGTGATGCCCAGT
54793 P A A CGCGCCGAGGATGTCGCTACTGCTTCCY
54793 P G A ATGACGTGGCAGACGTGTCGCTACTGCTTCY
54793 T A A AGAGGGAAGCAGTAGCGACATCTGGGCATCACTTGGCAGCGTGGCTT
54793 T G A AGAGGGAAGCAGTAGCGACACCTGGGCATCACTTGGCAGCGTGGCTT
AGGGATTCTCTAGCAAGCACGTGCTGAGCAGCCAAAGCCACGCTGCCAAGTGATGCCCAG[ag]TGTCGCTACTGCTTC
54793 IS [ag] CCTCTTATCTCCACATTGGGAGCCACATGGTCCTGCTGTCTGGGA
54794 I S CTTTGAGGAGACTTGGTCCACAGTGCTGGGT
54794 P G S ATGACGTGGCAGACCTGCCCCTTCCTTCCY
54794 P T S CGCGCCGAGGATGCCCCTTCCTTCCY
54794 T G S GGCAGGAAGGAAGGGGCAGCCCAGCACTGTGGACCAAGTCTCCTCAAAGAA
54794 T T S GGCAGGAAGGAAGGGGCATCCCAGCACTGTGGACCAAGTCTCCTCAAAGAA
GGATGGACTCCTGTTTCCATTCTGCCCTGGTCATGTGTGACAGGCAGGAAGGAAGGGCA[gt]CCCAGCACTGTGGA
54794 IS [gt] CCAAGTCTCCTCAAAGAAGTATCCAGCCTTTCCCTTGTTGGAGGGG
54797 I A GCTGGTAAGTAGAGGCCAGCCCAATGGATT
54797 P C A CGCGCCGAGGCTGGAGTCAGACCCGY
54797 P G A ATGACGTGGCAGACGTGGAGTCAGACCCGY
54797 T C A AACACGGGTCTGACTCCAGATCCATTGGGCTGGCCTCTACTTACCAGCAG
54797 T G A AACACGGGTCTGACTCCACATCCATTGGGCTGGCCTCTACTTACCAGCAG
CAGGCAAGCCAGGCCCCTCTGTGATTTGGCTGCTGGTAAGTAGAGGCCAGCCCAATGGAT[cg]TGGAGTCAGACCCG
54797 IS [cg] TGTTTGTGTCCTGGCTCTGACACTTGTTGCTATATGGACCTTGGGC
54799 I S GCGATCTCTCTCCAGGACTCTCTGAAGGCTCT
54799 P G S ATGACGTGGCAGACCTGATTAACAACTCCTCAAGGY
54799 P T S CGCGCCGAGGATGATTAACAACTCCTCAAGGY
54799 T G S CTGGCCTTGAGGAGTTGTTAATCAGGAGCCTTCAGAGAGTCCTGGAGAGAGATCGCTG
54799 T T S CTGGCCTTGAGGAGTTGTTAATCATGAGCCTTCAGAGAGTCCTGGAGAGAGATCGCTG
GGGCACCCAGGCCTGAGTTTTGGAATCTGGCTGGGCCTGGCCTTGAGGAGTTGTTAATCA[gt]GAGCCTTCAGAGAGT
54799 IS [gt] CCTGGAGAGAGATCGCTGGGGGACCAGGGGGGCTCTTTGTTTCTC
54802 I A TCAGATGGCATCTCCTCCAGAACCTTCTGCATT
54802 P A A CGCGCCGAGGACCTTTAGCTTCCTCACCY
54802 P G A ATGACGTGGCAGACGCCTTTAGCTTCCTCACY
54802 T A A ATCTGGTGAGGAAGCTAAAGGTATGCAGAAGGTTCTGGAGGAGATGCCATCTGAAG
54802 T G A ATCTGGTGAGGAAGCTAAAGGCATGCAGAAGGTTCTGGAGGAGATGCCATCTGAAG
ggcatttagtgcttgtggctcttctcagatggcatctcctccagaaccttctgca[ag]cctttagcttcctcaccagatgatagcatcgtgatagatggagctcttacatggaggcac
54802 IS [ag] GGTACTTGATTTGCCATCCAGCTGTAAGCAACCAGC
54803 I A CGCGCCGAGGAAATCCAGCTAAAATATAGGAATCY
54803 P A A ATGACGTGGCAGACTAATCCAGCTAAAATATAGGAATCAY
54803 P T A CAATTGATTCCTATATTTTAGCTGGATTTCTGGTTGCTTACAGCTGGATGGCAAATCAAGTACCAG
54803 T A A CAATTGATTCCTATATTTTAGCTGGATTACTGGTTGCTTACAGCTGGATGGCAAATCAAGTACCAG
54803 T T A GGCATCCCACCACAATGGCATAACTGGTACTTGATTTGCCATCCAGCTGTAAGCAACCAG[at]AATCCAGCTAAAATATA
54803 IS [at] GGAATCAATTGCTTTCAGACATTGAACTATAGGCAGCTGAAGA
54804 I A GCCTGAAATGGAGCAAGTGCTCCCCCAAAATAT
54804 P A A CGCGCCGAGGATTGTTATTCAATTAAGGTGGGY
54804 P G A ATGACGTGGCAGACGTTGTTATTCAATTAAGGTGGGY
54804 T A A TCTGCCCACCTTAATTGAATAACAATTATTTTGGGGGAGCACTTGCTCCATTTCAGGCAC
54804 T G A TCTGCCCACCTTAATTGAATAACAACTATTTTGGGGGAGCACTTGCTCCATTTCAGGCAC
TGATATGAGTAAAGCCTCTGCAAGTGGTGCCTGAAATGGAGCAAGTGCTCCCCCAAAATA[ag]TTGTTATTCAATTAAG
54804 IS [ag] GTGGGCAGAATAGTGGCACCTAAAGAGGTCCACTTCCTAATTCC
54807 I S CCATCTCAACTCCTGCATTCTCCCTGGCAGT
54807 P C S ATGACGTGGCAGACGACTAAAGAGGGTGTGCY
54807 P T S CGCGCCGAGGAACTAAAGAGGGTGTGCY
54807 T C S GAAGGCACACCCTCTTTAGTCCTGCCAGGGAGAATGCAGGAGTTGAGATGGGG
54807 T T S GAAGGCACACCCTCTTTAGTTCTGCCAGGGAGAATGCAGGAGTTGAGATGGGG
GGGAGCCCACCTGCCTGCTGCTCGGCTGGGTGACCTTAGGGAAGGCACACCCTCTTTAGT[ct]CTGCCAGGGAGAAT
54807 IS [ct] GCAGGAGTTGAGATGGGGACTCAGGCCTAAAAATAAGGCAGGGCAG
54808 I A GTGCATATTGGTAAGGAAGTTCTATGTAGGTTTTACATGTGAAGCTAAACACT
54808 P A A CGCGCCGAGGAAGTTCAGTTAGAGAATATTATCCAY
54808 P G A ATGACGTGGCAGACGAGTTCAGTTAGAGAATATTATCCAY
TAAATGGATAATATTCTCTAACTGAACTTGTGTTTAGCTTCACATGTAAAACCTACATAGAACTTCCTTACCAATATGCA
54808 T A A CAA
TAAATGGATAATATTCTCTAACTGAACTCGTGTTTAGCTTCACATGTAAAACCTACATAGAACTTCCTTACCAATATGCA
54808 T G A CAA
TATACCTTGTGCATATTGGTAAGGAAGTTCTATGTAGGTTTTACATGTGAAGCTAAACAC[ag]AGTTCAGTTAGAGAATA
54808 IS [ag] TTATCCATTTATATGTTATACAGTTAAGGTAGTATTTTTAAAA
54810 I S CTGTAAGGCTTTCACTTGATGATGGTGGTGATGGGT
54810 P C S ATGACGTGGCAGACGAGATAGGAGAGAAAGCCAY
54810 P T S CGCGCCGAGGAAGATAGGAGAGAAAGCCAY
54810 T C S GGCTTGGCTTTCTCTCCTATCTCCCCATCACCACCATCATCAAGTGAAAGCCTTACAGGG
54810 T T S GGCTTGGCTTTCTCTCCTATCTTCCCATCACCACCATCATCAAGTGAAAGCCTTACAGGG
CCAGGCATTATCCCACTGTGTGAAGCCTCAGGGTTGGGGGCTTGGCTTTCTCTCCTATCT[ct]CCCATCACCACCATCA
54810 IS [ct] TCAAGTGAAAGCCTTACAGGGCTCCTCTTTGGCCTTCATGTAGT
54812 I A CTGAACACATCCCTTCCCCAAGTTGCAGGAAT
54812 P A A CGCGCCGAGGAAGCCAAGTTCCACGY
54812 P C A ATGACGTGGCAGACCAGCCAAGTTCCACGY
54812 T A A GCCCCGTGGAACTTGGCTTTTCCTGCAACTTGGGGAAGGGATGTGTTCAGTG
54812 T C A GCCCCGTGGAACTTGGCTGTTCCTGCAACTTGGGGAAGGGATGTGTTCAGTG
TTTCTTTTGTTCTCTTTCAACAGTGGGCACTGAACACATCCCTTCCCCAAGTTGCAGGAA[ac]AGCCAAGTTCCACGGG
54812 IS [ac] GCATGGAGGGGGGAAAGGAAGTGGGTGAGGGACAGGCAGGAGGG
54817 I S CACCAAAAACCTTGGAGACAGGATCAAAGCATGTCACT
54817 P G S ATGACGTGGCAGACCCTATAAAACTGAGGCAAACAY
54817 P T S CGCGCCGAGGACTATAAAACTGAGGCAAACAY
54817 T G S AGTCTGTTTGCCTCAGTTTTATAGGGTGACATGCTTTGATCCTGTCTCCAAGGTTTTTGGTGCT
54817 T T S AGTCTGTTTGCCTCAGTTTTATAGTGTGACATGCTTTGATCCTGTCTCCAAGGTTTTTGGTGCT
CATGAAATGGTTGTCTGAATTCCTCCCCTTGCGTCAAGTCTGTTTGCCTCAGTTTTATAG[gt]GTGACATGCTTTGATCC
54817 IS [gt] TGTCTCCAAGGTTTTTGGTGCTGATTGCTTCTTTCTCCTTCCT
54818 I S GTCCCCAAGGCTCCCTCAGCTTCCATT
54818 P C S ATGACGTGGCAGACGGGTCAGTTTAGTCAGGGY

FIGURE 129D

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54818 P   T     S  CGCGCCGAGGAGGTCAGTTTAGTCAGGGY
54818 T   C     S  GTGGCCCTGACTAAACTGACCCATGGAAGCTGAGGGAGCCTTGGGGACTG
54818 T   T     S  GTGGCCCTGACTAAACTGACCTATGGAAGCTGAGGGAGCCTTGGGGACTG
                     ACAGACATGCTTGTAAGCCACTGAGTTTGGGGCATTATTGTGGCCCTGACTAAACTGACC[cr]ATGGAAGCTGAGGGA
54818 IS  [ct]       GCCTTGGGGACTGGGGATTAGGATGAGGCTGGACAGGTGGGCAGG
54820 I           S  CTAAAGTTTATGTAGCATTTACTATATGCTGGCATTGTTGTGTTTTT
54820 P   C     S  ATGACGTGGCAGACGCCTCAAATAACTCACGTY
54820 P   T     S  CGCGCCGAGGACCTCAAATAACTCACGTGY

54820 T   C     S  GAAGCACGTGAGTTATTTGAGGCAAAACACAACAATGCCAGCATATAGTAAATGCTACATAAACTTTAGAT

54820 T   T     S  GAAGCACGTGAGTTATTTGAGGTAAAACACAACAATGCCAGCATATAGTAAATGCTACATAAACTTTAGAT
                     atgggataaaaatatgccttcataggactgctatgagaagcacgtgagttattgagg[ct]aaaacacaacaatgccagctatagtaaatgctacataaacttagatatttattatac
54820 IS  [ct]       cc
54827 I           A  TTTTGCTTTTGGTTGCTGATGTTGTGAAGTTTTGTAACT
54827 P   A     A  CGCGCCGAGGATTAATGATAAAGCTGGGGTCY
54827 P   G     A  ATGACGTGGCAGACGTTAATGATAAAGCTGGGGTY
54827 T   A     A  TTTTGACCCCAGCTTTATCATTAATGTTACAAAACTTCACAACATCAGCAACCAAAAGCAAAAAG
54827 T   G     A  TTTTGACCCCAGCTTTATCATTAACGTTACAAAACTTCACAACATCAGCAACCAAAAGCAAAAAG
                     TGAATTTTTCTTAGATTATTCTTTTTGCTTTTGGTTGCTGATGTTGTGAAGTTTTGTAAC[ag]TTAATGATAAAGCTGGGG
54827 IS  [ag]       TCAAAAATAGGCCTGCTGTTCATAGTCAATAATAACGAAGGT
54832 I           A  CTCTTCAGCTCAGGGGAAATCATCACAGCCTGTTTAT
54832 P   A     A  CGCGCCGAGGAACTCCACTCACAGAACAY
54832 P   G     A  ATGACGTGGCAGACGACTCCACTCACAGAACAY
54832 T   A     A  ACCCTGTTCTGTGAGTGGAGTTTAAACAGGCTGTGATGATTTCCCCTGAGCTGAAGAGGC
54832 T   G     A  ACCCTGTTCTGTGAGTGGAGTCTAAACAGGCTGTGATGATTTCCCCTGAGCTGAAGAGGC
                     agctgcccaaactctgacctctgcctctctcagctcagggaaatcatcacagcctgttta[ag]actccactcacagaacagggttgggaaccgtcctcagacagaaaactgagc
54832 IS  [ag]       aaatgtgg
54833 I           A  GGGAACCGCAGAGAAGAGGCCCCTAAT
54833 P   A     A  CGCGCCGAGGAATGGAAAGGGGTCATCAY
54833 P   G     A  ATGACGTGGCAGACGATGGAAAGGGGTCATCY
54833 T   A     A  GTTCTGATGACCCCTTTCCATTTTAGGGGCCTCTTCTCTGCGGTTCCCCC
54833 T   G     A  GTTCTGATGACCCCTTTCCATCTTAGGGGCCTCTTCTCTGCGGTTCCCCC
                     agcaaggcagtggcatgggcatacccatactgggggaacgcagagaagaggcccctaa[ag]atggaaaggggtcatcagaacactcacaaaagcacccccaccagagtc
54833 IS  [ag]       agcttaactatt
54836 I           A  GAACCCTCTGCAGAGAGGTGGACACGGA
54836 P   C     A  ATGACGTGGCAGACCCACTCTGTCAAGGGATY
54836 P   T     A  CGCGCCGAGGTCACTCTGTCAAGGGATGY
54836 T   C     A  TCTGCATCCCTTGACAGAGTGGCCGTGTCCACCTCTCTGCAGAGGGTTCTT
54836 T   T     A  TCTGCATCCCTTGACAGAGTGACCGTGTCCACCTCTCTGCAGAGGGTTCTT
                     ATGGGAGGAGAAGACTGCAGCTCTGGGAAGCAAGAACCCTCTGCAGAGAGGTGGACACGG[ct]CACTCTGTCAAGGG
54836 IS  [ct]       ATGCAGAGGGGCTTGAGGCTTCCCAGAGGTGCAAGGCCCCCTCCCC
54841 I           S  GGCTAGTCTTGCACTGTGACATGGCCTGTC
54841 P   A     S  CGCGCCGAGGTTAAGTGTCCACATACCCCY
54841 P   C     S  ATGACGTGGCAGACGTAAGTGTCCACATACCCY
54841 T   A     S  TTTGGGGGTATGTGGACACTTAAACAGGCCATGTCACAGTGCAAGACTAGCCAT
54841 T   C     S  TTTGGGGGTATGTGGACACTTACACAGGCCATGTCACAGTGCAAGACTAGCCAT
                     GAACAGGCCCTGCCCTCAGGGGACAATGAGTAGGGGGGTTTGGGGGTATGTGGACACTTA[ac]ACAGGCCATGTCAC
54841 IS  [ac]       AGTGCAAGACTAGCCATGCTCCAATAAATGTATGGTAAGGGCTCAA
54844 I           A  ACATGGGTTCATATCCACAAATTGCTGAACATGTTCT
54844 P   C     A  CGCGCCGAGGCATACACATACAAAGTCCCTY
54844 P   G     A  ATGACGTGGCAGACGATACACATACAAAGTCCCTGY
54844 T   C     A  AAGGCAGGGACTTTGTATGTGTATGGAACATGTTCAGCAATTTGTGGATATGAACCCATGTAC
54844 T   G     A  AAGGCAGGGACTTTGTATGTGTATCGAACATGTTCAGCAATTTGTGGATATGAACCCATGTAC
                     GTTGATCTGTTGAATCAATTTTGTACATGGGTTCATATCCACAAATTGCTGAACATGTTC[cg]ATACACATACAAAGTCC
54844 IS  [cg]       CTGCCTTCAAGGGGTCTGCAGTTTATTAGTGGGAATACAGTAA
54847 I           S  TCACAAAACCTGAGTCTGATTCAGGCTCCAGCATCT
54847 P   G     S  ATGACGTGGCAGACCTCAGTTGTGTGACCATAAGY
54847 P   T     S  CGCGCCGAGGATCAGTTGTGTGACCATAAGY
54847 T   G     S  GCTGCTTATGGTCACACAACTGAGGATGCTGGAGCCTGAATCAGACTCAGGTTTTGTGACT
54847 T   T     S  GCTGCTTATGGTCACACAACTGATGATGCTGGAGCCTGAATCAGACTCAGGTTTTGTGACT
                     AGAAAAGTAAACTGAACTGAGGATCAGGAAGGACACAGCTGCTTATGGTCACACAACTGA[gt]GATGCTGGAGCCTGAA
54847 IS  [gt]       TCAGACTCAGGTTTTGTGACTCCCAAGGCTCTGCTCTGACTGCT
54861 I           S  GTCTCTGAGATGTCTAGTGAGGAAGTCTCAGGGCTGT
54861 P   C     S  ATGACGTGGCAGACGCTGTTAGGATGATTTAAAACCY
54861 P   T     S  CGCGCCGAGGACTGTTAGGATGATTTAAAACCTY
54861 T   C     S  TTTAAGGTTTTAAATCATCCTAACAGCCAGCCCTGAGACTTCCTCACTAGACATCTCAGAGACTT
54861 T   T     S  TTTAAGGTTTTAAATCATCCTAACAGTCAGCCCTGAGACTTCCTCACTAGACATCTCAGAGACTT
                     atatataaaagaattatgtgtgtcaacaaaatggtgtttaaggtttaaatcatcctaacag[ct]cagccctgagacttcctcactgacatctcagagacttatgaaagtttatatctacaat
54872 I           S  TGCCCTCTGTCATGTGCGATGGTAGAAAGAGAAAAGT
54872 P   C     S  ATGACGTGGCAGACGAAGATGTAAGGAAATGACATGY
54872 P   T     S  CGCGCCGAGGAAAGATGTAAGGAAATGACATGY
54872 T   C     S  AGAACATGTCATTTCCTTACATCTTCCTTTTCTCTTTCTACCATCGCACATGACAGAGGGCACA
54872 T   T     S  AGAACATGTCATTTCCTTACATCTTTCTTTTCTCTTTCTACCATCGCACATGACAGAGGGCACA
                     GGTAACCTCCCAAATTTTTTTCTAGATTAGAGCTCAGAACATGTCATTTCCTTACATCTT[ct]CTTTTCTCTTTCTACCAT
54872 IS  [ct]       CGCACATGACAGAGGGCACAATCTTTCTATTTTCTCTTCCTT
54875 I           S  GCGAGGCCGAGCCCCTCCTAGTGT
54875 P   C     S  ATGACGTGGCAGACGTTCCGGACCTTGCTY
54875 P   G     S  CGCGCCGAGGCTTCCGGACCTTGCTY
54875 T   C     S  AGGGAGCAAGGTCCGGAACCACTAGGAGGGGCTCGGCCTCGCCA
54875 T   G     S  AGGGAGCAAGGTCCGGAAGCACTAGGAGGGGCTCGGCCTCGCCA
                     ctggctggaaggagtaagatccaccgccacctccgagtgttcagggagcaaggtccggaa[cg]cactaggaggggctcggcctcgccagcttccgtagcccgcccgccc
54875 IS  [cg]       cgctccgcttcg
54878 I           A  TTTGAGACAGCAATAGTAGCCAGTCCCTATCCTGAAGTT
54878 P   C     A  CGCGCCGAGGCTGGGTAGTGGGAGGY
54878 P   G     A  ATGACGTGGCAGACGTGGGTAGTGGGAGGY
54878 T   C     A  GCATCCTCCCACTACCCAGACTTCAGGATAGGGACTGGCTACTATTGCTGTCTCAAACC
54878 T   G     A  GCATCCTCCCACTACCCACACTTCAGGATAGGGACTGGCTACTATTGCTGTCTCAAACC
                     CTATGACAGACGCTTTCCTGGGTTTGAGACAGCAATAGTAGCCAGTCCCTATCCTGAAGT[cg]TGGGTAGTGGGAGGA
54878 IS  [cg]       TGCCTACTGTTGCTTGGATATTGAATGTTTCTGTTCCACTGAAGT
54882 I           S  GGAAACTCACAGCCAATGGCCGTGTGCA
54882 P   A     S  CGCGCCGAGGTCTATTACAGCTAGCATTTGTTY
54882 P   G     S  ATGACGTGGCAGACCCTATTACAGCTAGCATTTGTY
54882 T   A     S  ACTTAACAAATGCTAGCTGTAATAGAGCACACGGCCATTGGCTGTGAGTTTCCAA
54882 T   G     S  ACTTAACAAATGCTAGCTGTAATAGGGCACACGGCCATTGGCTGTGAGTTTCCAA
                     TATGAATTAACATGTAGTGCCTGCACAGAGTAAGTACTTAACAAATGCTAGCTGTAATAG[ag]GCACACGGCCATTGGC
54882 IS  [ag]       TGTGAGTTTCCAACTCCAGGAAGCCGAGGCTCCCCGGAGGGTAT
54906 I           A  CCTCCATCCCTGGGCTGGCCCT
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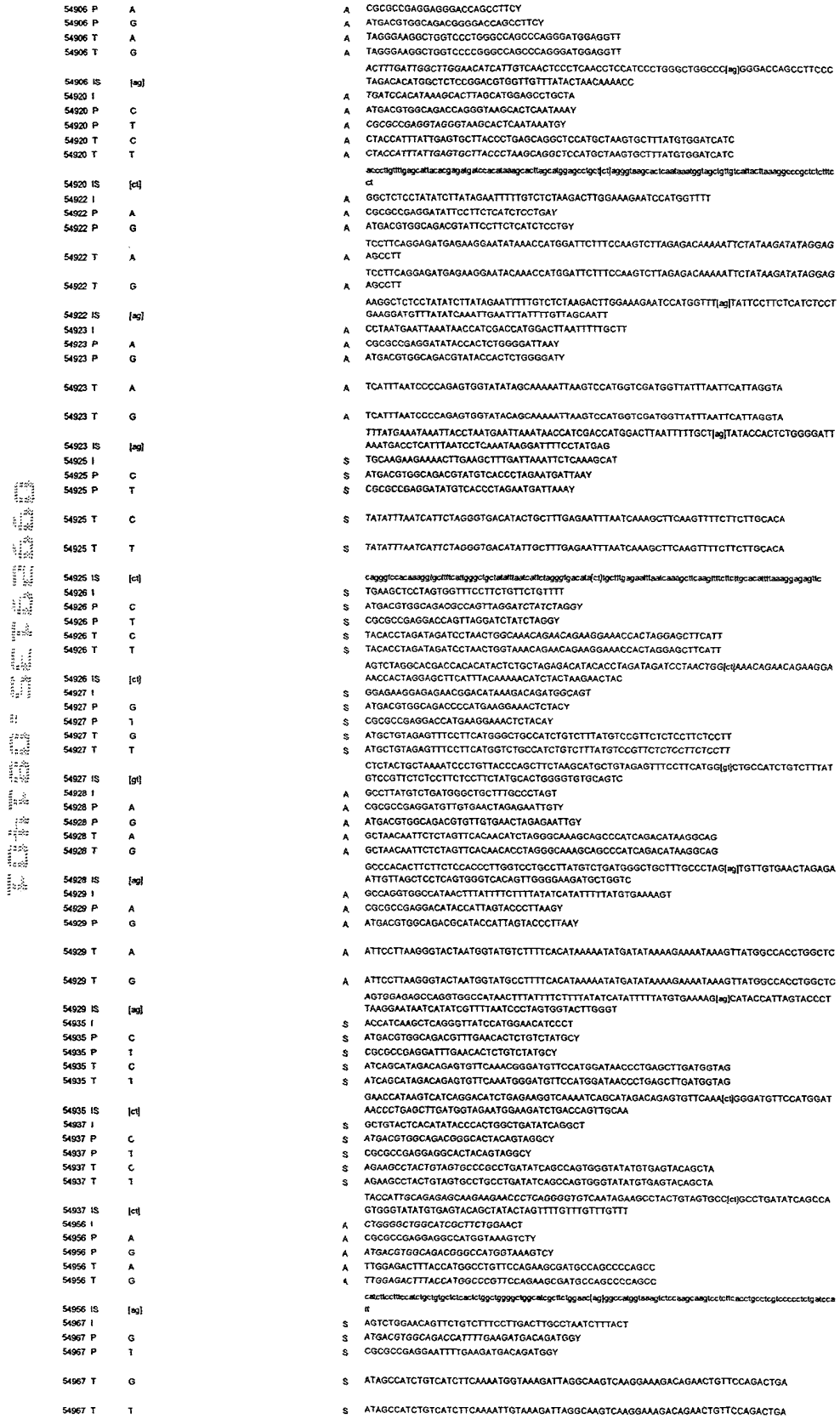

54906 P A A CGCGCCGAGGAGGGACCAGCCTTCY
54906 P G A ATGACGTGGCAGACGGGGACCAGCCTTCY
54906 T A A TAGGGAAGGCTGGTCCCTGGGCCAGCCCAGGGATGGAGGTT
54906 T G A TAGGGAAGGCTGGTCCCCGGGCCAGCCCAGGGATGGAGGTT
ACTTTGATTGGCTTGGAACATCATTGTCAACTCCCTCAACCTCCATCCCTGGGCTGGCCC[ag]GGGACCAGCCTTCCC
54906 IS [ag] TAGACACATGGCTCTCCGGACGTGGTTGTTTATACTAACAAAACC
54920 I A TGATCCACATAAAGCACTTAGCATGGAGCCTGCTA
54920 P C A ATGACGTGGCAGACCAGGGTAAGCACTCAATAAAY
54920 P T A CGCGCCGAGGTAGGGTAAGCACTCAATAAATGY
54920 T C A CTACCATTTATTGAGTGCTTACCCTGAGCAGGCTCCATGCTAAGTGCTTTATGTGGATCATC
54920 T T A CTACCATTTATTGAGTGCTTACCCTAAGCAGGCTCCATGCTAAGTGCTTTATGTGGATCATC
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54920 IS [ct] ct
54922 I A GGCTCTCCTATATCTTATAGAATTTTTGTCTCTAAGACTTGGAAAGAATCCATGGTTTT
54922 P A A CGCGCCGAGGATATTCCTTCTCATCTCCTGAY
54922 P G A ATGACGTGGCAGACGTATTCCTTCTCATCTCCTGY
TCCTTCAGGAGATGAGAAGGAATATAAACCATGGATTCTTTCCAAGTCTTAGAGACAAAAATTCTATAAGATATAGGAG
54922 T A A AGCCTT
TCCTTCAGGAGATGAGAAGGAATACAAACCATGGATTCTTTCCAAGTCTTAGAGACAAAAATTCTATAAGATATAGGAG
54922 T G A AGCCTT
AAGGCTCTCCTATATCTTATAGAATTTTTGTCTCTAAGACTTGGAAAGAATCCATGGTTT[ag]TATTCCTTCTCATCTCCT
54922 IS [ag] GAAGGATGTTTATATCAAATTGAATTTATTTTGTTAGCAATT
54923 I A CCTAATGAATTAAATAACCATCGACCATGGACTTAATTTTTGCTT
54923 P A A CGCGCCGAGGATATACCACTCTGGGGATTAAY
54923 P G A ATGACGTGGCAGACGTATACCACTCTGGGGATY
54923 T A A TCATTTAATCCCCAGAGTGGTATATAGCAAAAATTAAGTCCATGGTCGATGGTTATTTAATTCATTAGGTA
54923 T G A TCATTTAATCCCCAGAGTGGTATACAGCAAAAATTAAGTCCATGGTCGATGGTTATTTAATTCATTAGGTA
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54923 IS [ag] AAATGACCTCATTTAATCCTCAAATAAGGATTTTCCTATGAG
54925 I S TGCAAGAAGAAAACTTGAAGCTTTGATTAAATTCTCAAAGCAT
54925 P C S ATGACGTGGCAGACGTATGTCACCCTAGAATGATTAAY
54925 P T S CGCGCCGAGGATATGTCACCCTAGAATGATTAAAY
54925 T C S TATATTTAATCATTCTAGGGTGACATACTGCTTTGAGAATTTAATCAAAGCTTCAAGTTTTCTTCTTGCACA
54925 T T S TATATTTAATCATTCTAGGGTGACATATTGCTTTGAGAATTTAATCAAAGCTTCAAGTTTTCTTCTTGCACA
54925 IS [ct] cagggtccacaaaggtgctttcatgggctgctatatttaatcatttctagggtgacata[ct]tgctttgagaatttaatcaaagctttcaagttttcttcttgcacatttaaaggagagttc
54926 I S TGAAGCTCCTAGTGGTTTCCTTCTGTTCTGTTTT
54926 P C S ATGACGTGGCAGACGCCAGTTAGGATCTATCTAGGY
54926 P T S CGCGCCGAGGACCAGTTAGGATCTATCTAGGY
54926 T C S TACACCTAGATAGATCCTAACTGGCAAACAGAACAGAAGGAAACCACTAGGAGCTTCATT
54926 T T S TACACCTAGATAGATCCTAACTGGTAAACAGAACAGAAGGAAACCACTAGGAGCTTCATT
AGTCTAGGCACGACCACACATACTCTGCTAGAGACATACACCTAGATAGATCCTAACTGG[ct]AAACAGAACAGAAGGA
54926 IS [ct] AACCACTAGGAGCTTCATTTACAAAAACATCTACTAAGAACTAC
54927 I S GGAGAAGGAGAGAACGGACATAAAGACAGATGGCAGT
54927 P G S ATGACGTGGCAGACCCCATGAAGGAAACTCTACY
54927 P T S CGCGCCGAGGACCATGAAGGAAACTCTACAY
54927 T G S ATGCTGTAGAGTTTCCTTCATGGGCTGCCATCTGTCTTTATGTCCGTTCTCTCCTTCTCCTT
54927 T T S ATGCTGTAGAGTTTCCTTCATGGTCTGCCATCTGTCTTTATGTCCGTTCTCTCCTTCTCCTT
CTCTACTGCTAAAATCCCTGTTACCCAGCTTCTAAGCATGCTGTAGAGTTTCCTTCATGG[gt]CTGCCATCTGTCTTTAT
54927 IS [gt] GTCCGTTCTCTCCTTCTCCTTCTATGCACTGGGGTGTGCAGTC
54928 I A GCCTTATGTCTGATGGGCTGCTTTGCCCTAGT
54928 P A A CGCGCCGAGGATGTTGTGAACTAGAGAATTGTY
54928 P G A ATGACGTGGCAGACGTGTTGTGAACTAGAGAATTGY
54928 T A A GCTAACAATTCTCTAGTTCACAACATCTAGGGCAAAGCAGCCCATCAGACATAAGGCAG
54928 T G A GCTAACAATTCTCTAGTTCACAACACCTAGGGCAAAGCAGCCCATCAGACATAAGGCAG
GCCCACACTTCTTCTCCACCCTTGGTCCTGCCTTATGTCTGATGGGCTGCTTTGCCCTAG[ag]TGTTGTGAACTAGAGA
54928 IS [ag] ATTGTTAGCTCCTCAGTGGGTCACAGTTGGGGAAGATGCTGGTC
54929 I A GCCAGGTGGCCATAACTTTATTTTCTTTTATATCATATTTTTATGTGAAAAGT
54929 P A A CGCGCCGAGGACATACCATTAGTACCCTTAAGY
54929 P G A ATGACGTGGCAGACGCATACCATTAGTACCCTTAAY
54929 T A A ATTCCTTAAGGGTACTAATGGTATGTCTTTTCACATAAAAATATGATATAAAAGAAAATAAAGTTATGGCCACCTGGCTC
54929 T G A ATTCCTTAAGGGTACTAATGGTATGCCTTTTCACATAAAAATATGATATAAAAGAAAATAAAGTTATGGCCACCTGGCTC
AGTGGAGAGCCAGGTGGCCATAACTTTATTTTCTTTTATATCATATTTTTATGTGAAAAG[ag]CATACCATTAGTACCCT
54929 IS [ag] TAAGGAATAATCATATCGTTTTAATCCCTAGTGGTACTTGGGT
54935 I S ACCATCAAGCTCAGGGTTATCCATGGAACATCCCT
54935 P C S ATGACGTGGCAGACGTTTGAACACTCTGTCTATGCY
54935 P T S CGCGCCGAGGATTTGAACACTCTGTCTATGCY
54935 T C S ATCAGCATAGACAGAGTGTTCAAACGGGATGTTCCATGGATAACCCTGAGCTTGATGGTAG
54935 T T S ATCAGCATAGACAGAGTGTTCAAATGGGATGTTCCATGGATAACCCTGAGCTTGATGGTAG
GAACCATAAGTCATCAGGACATCTGAGAAGGTCAAAATCAGCATAGACAGAGTGTTCAAA[ct]GGGATGTTCCATGGAT
54935 IS [ct] AACCCTGAGCTTGATGGTAGAATGGAAGATCTGACCAGTTGCAA
54937 I S GCTGTACTCACATATACCCACTGGCTGATATCAGGCT
54937 P C S ATGACGTGGCAGACGGGCACTACAGTAGGCY
54937 P T S CGCGCCGAGGAGGCACTACAGTAGGCY
54937 T C S AGAAGCCTACTGTAGTGCCCGCCTGATATCAGCCAGTGGGTATATGTGAGTACAGCTA
54937 T T S AGAAGCCTACTGTAGTGCCTGCCTGATATCAGCCAGTGGGTATATGTGAGTACAGCTA
TACCATTGCAGAGAGCAAGAAGAACCCTCAGGGGTGTCAATAGAAGCCTACTGTAGTGCC[ct]GCCTGATATCAGCCA
54937 IS [ct] GTGGGTATATGTGAGTACAGCTATACTAGTTTTGTTTGTTTGTTT
54956 I A CTGGGGCTGGCATCGCTTCTGGAACT
54956 P A A CGCGCCGAGGAGGCCATGGTAAAGTCTY
54956 P G A ATGACGTGGCAGACGGGCCATGGTAAAGTCY
54956 T A A TTGGAGACTTTACCATGGCCTGTTCCAGAAGCGATGCCAGCCCCAGCC
54956 T G A TTGGAGACTTTACCATGGCCCGTTCCAGAAGCGATGCCAGCCCCAGCC
catctcctttccatctgctgtgctctcactctggctgggctggcatcgcttctggaac[ag]ggccatggtaaagtctccaagcaagtcctcttcacctgcctcgtcccccctctgatcca
54956 IS [ag] tt
54967 I S AGTCTGGAACAGTTCTGTCTTTCCTTGACTTGCCTAATCTTTACT
54967 P G S ATGACGTGGCAGACCATTTTGAAGATGACAGATGGY
54967 P T S CGCGCCGAGGAATTTTGAAGATGACAGATGGY
54967 T G S ATAGCCATCTGTCATCTTCAAAATGGTAAAGATTAGGCAAGTCAAGGAAAGACAGAACTGTTCCAGACTGA
54967 T T S ATAGCCATCTGTCATCTTCAAAATTGTAAAGATTAGGCAAGTCAAGGAAAGACAGAACTGTTCCAGACTGA

FIGURE 129D

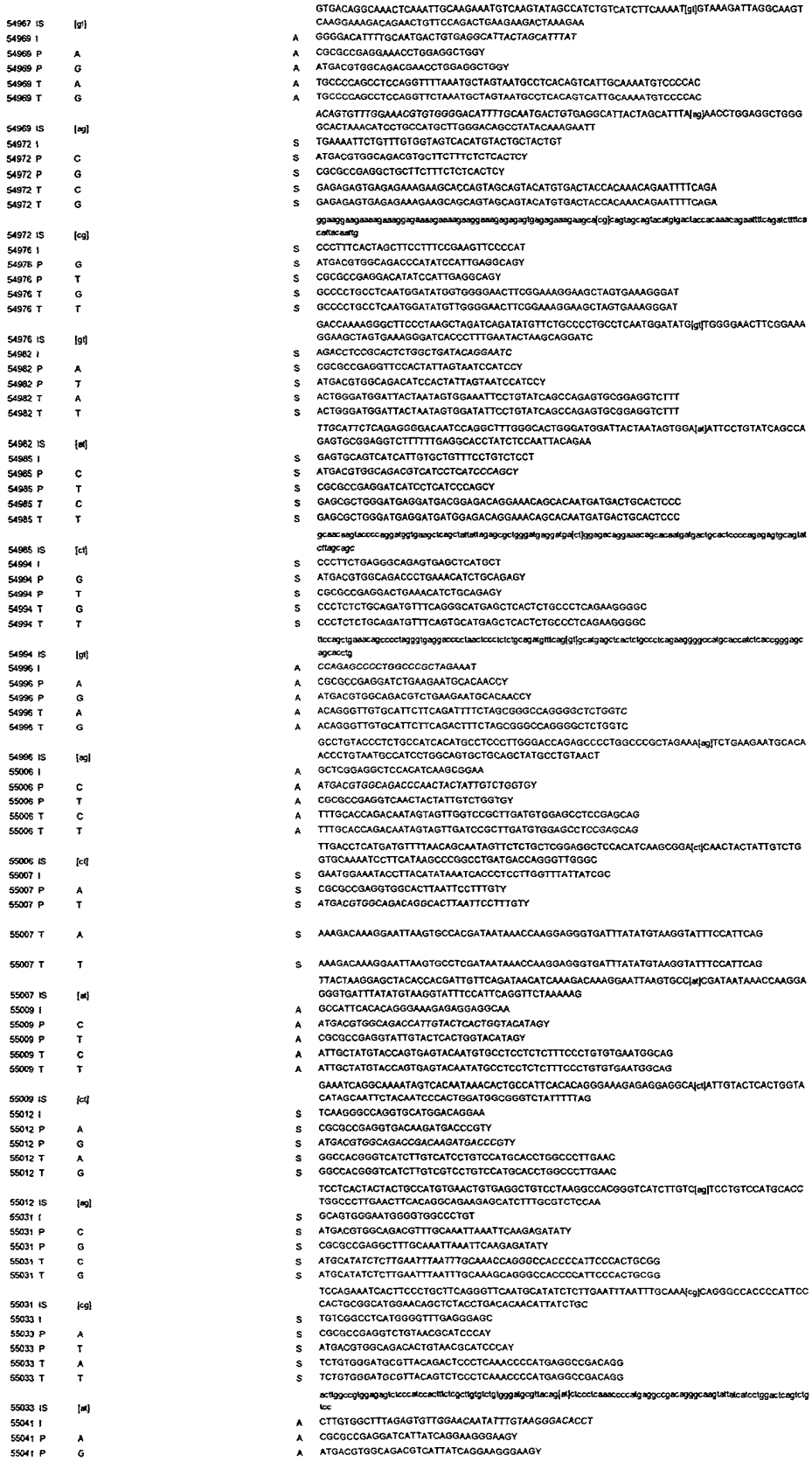
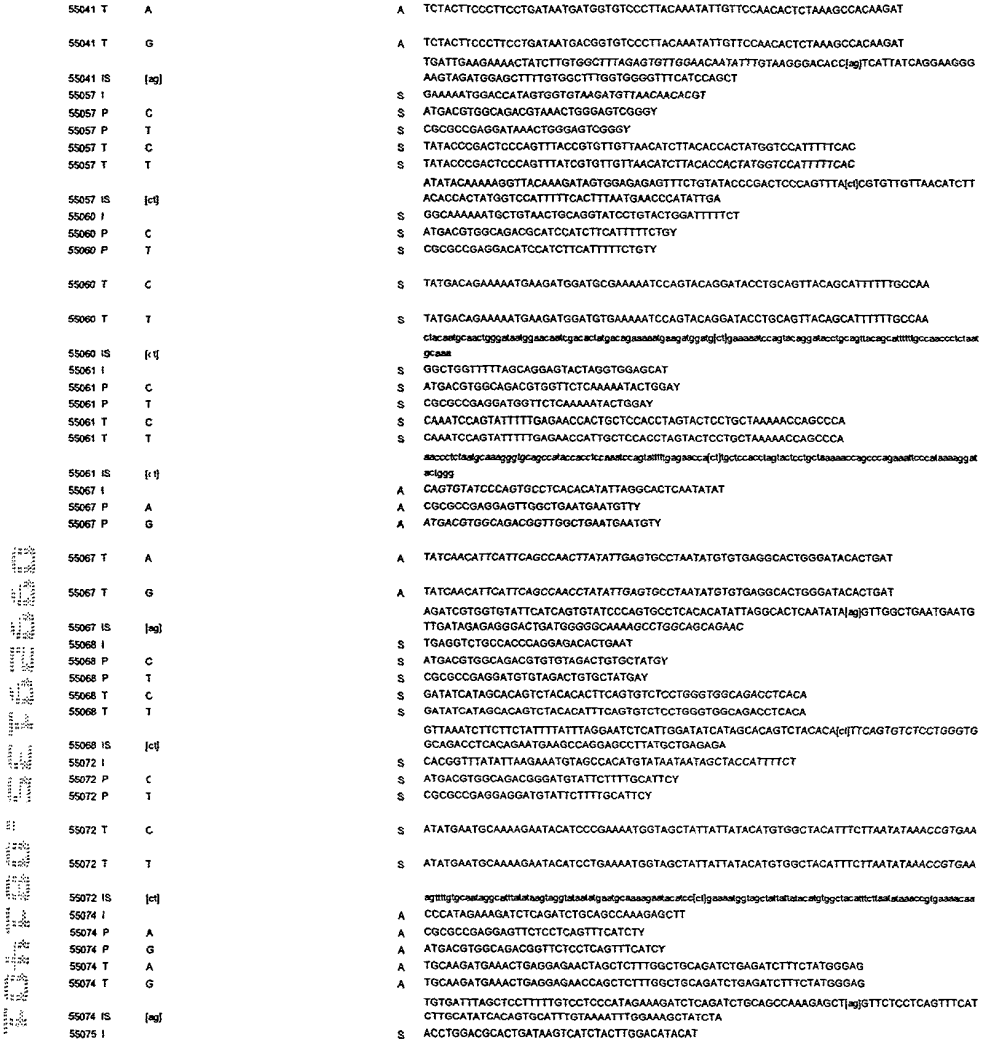

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55031 P G S CGCGCCGAGGCTTTGCAAATTAAATTCAAGAGATATY
55031 T C S ATGCATATCTCTTGAATTTAATTTGCAAACCAGGGCCACCCCATTCCCACTGCGG
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FIGURE 129D



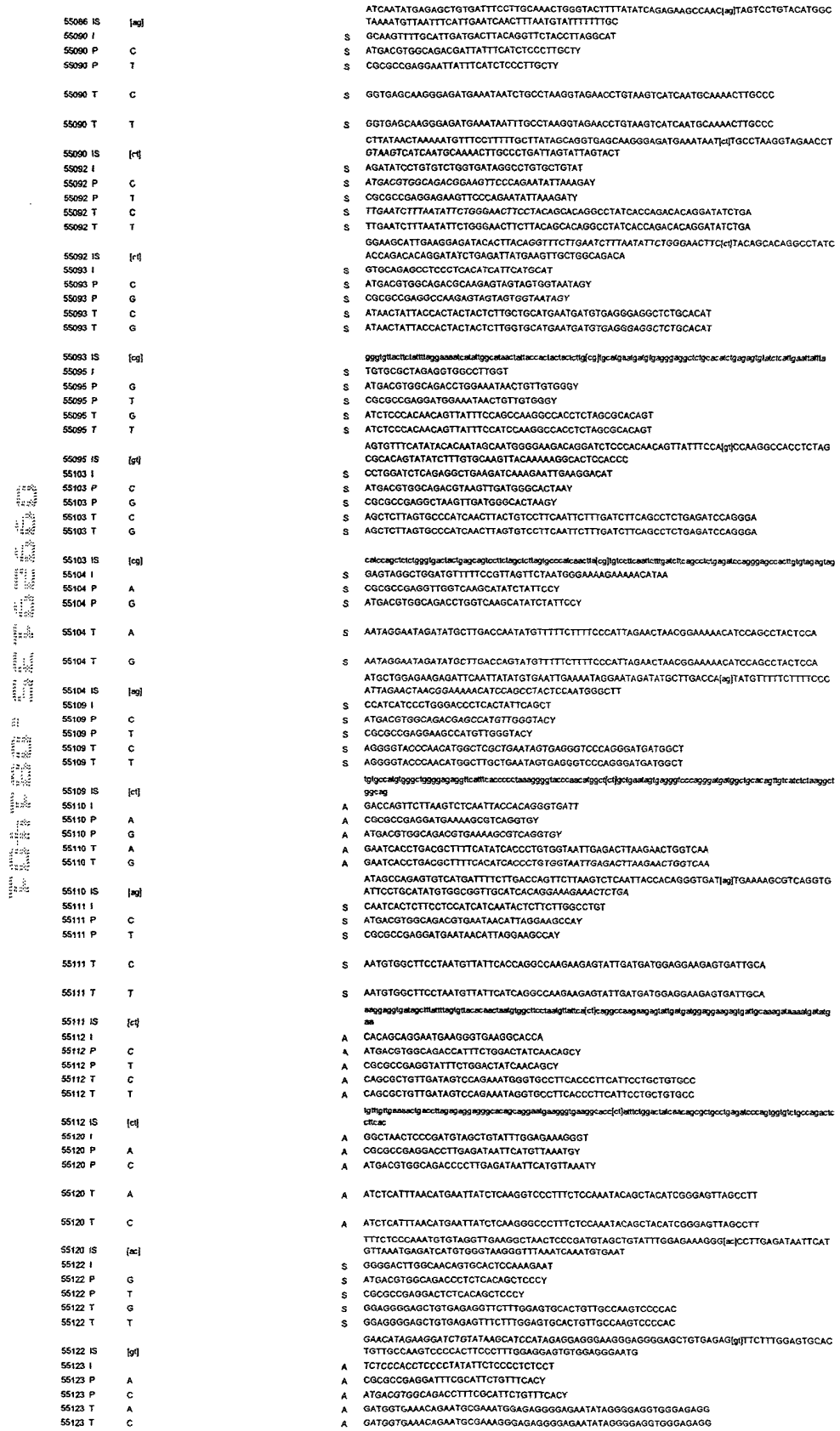

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FIGURE 129D

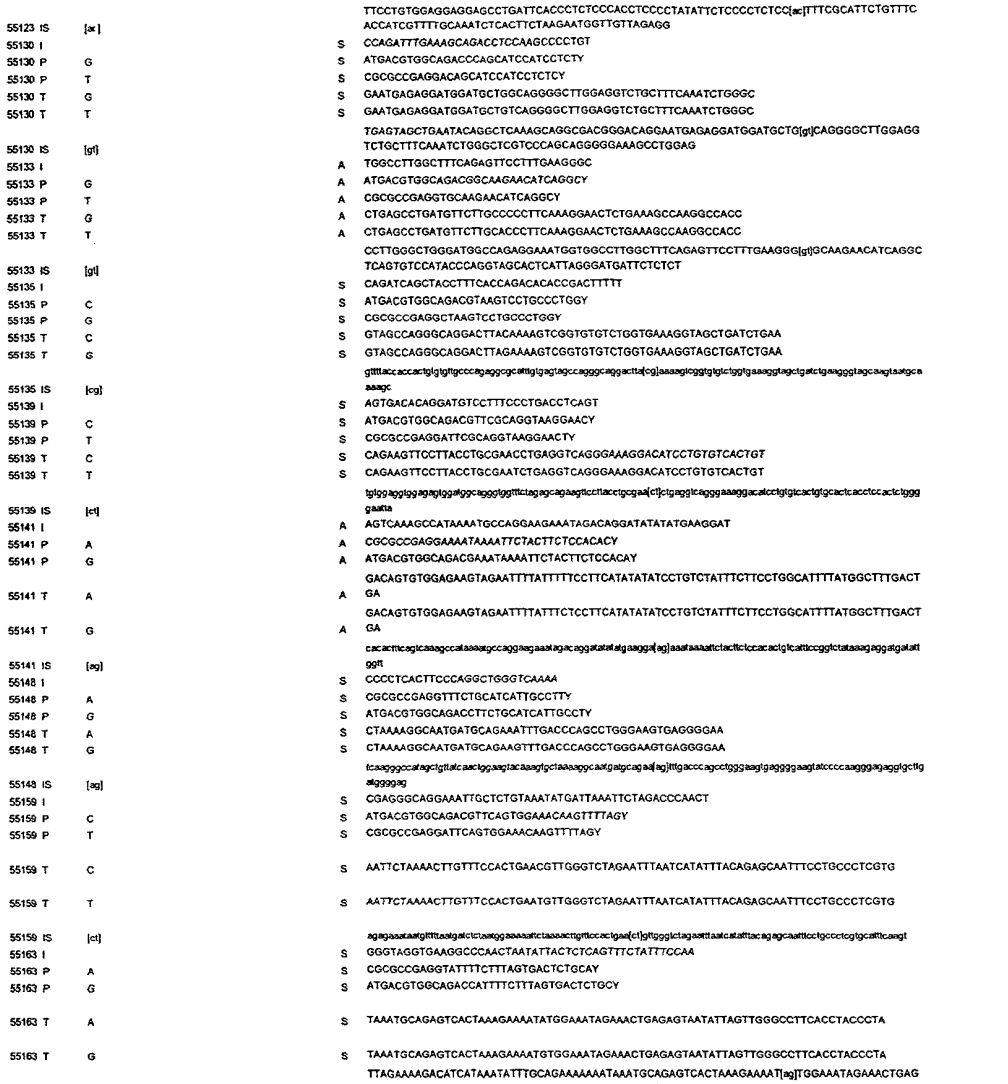

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FIGURE 129D

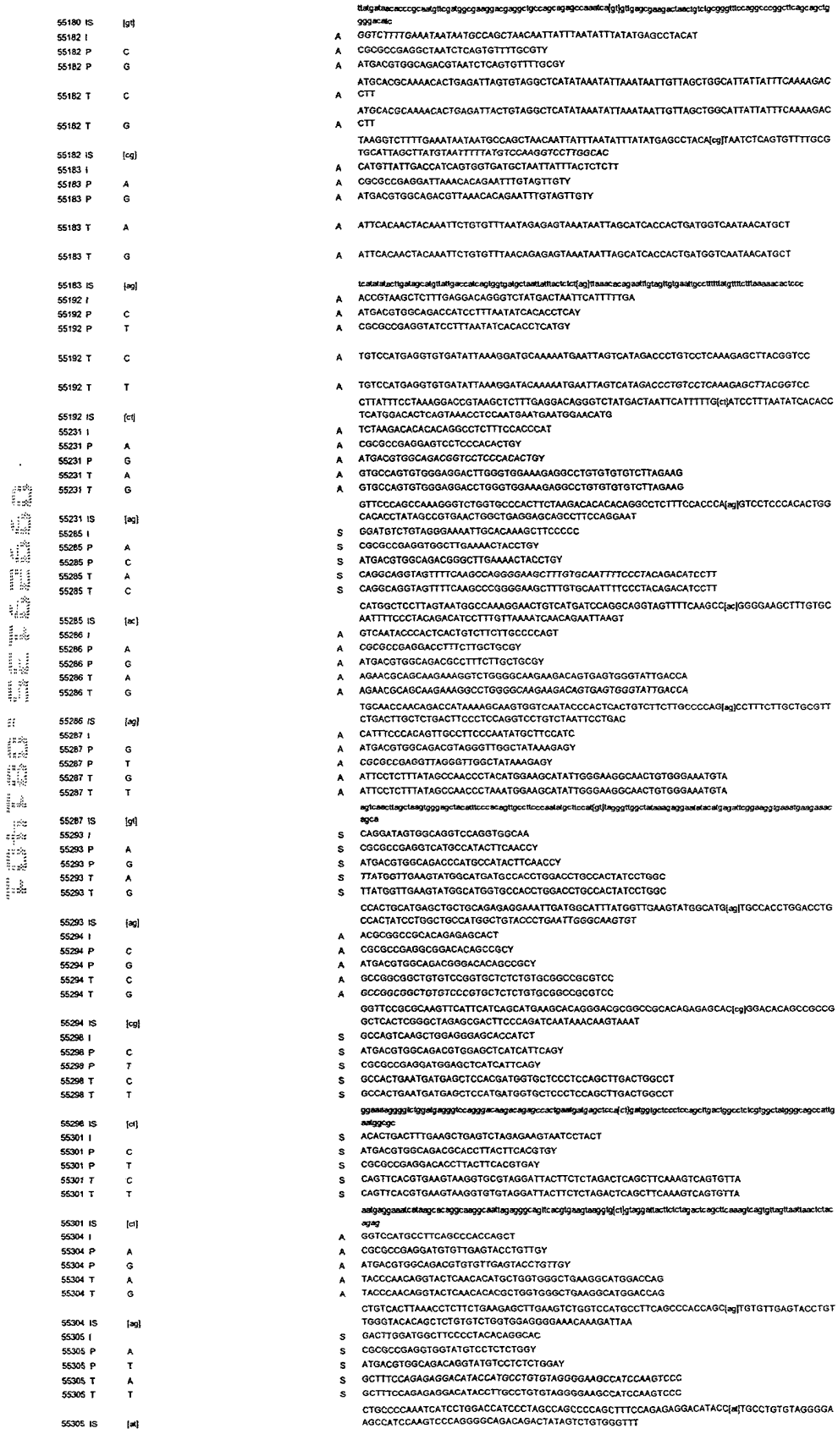
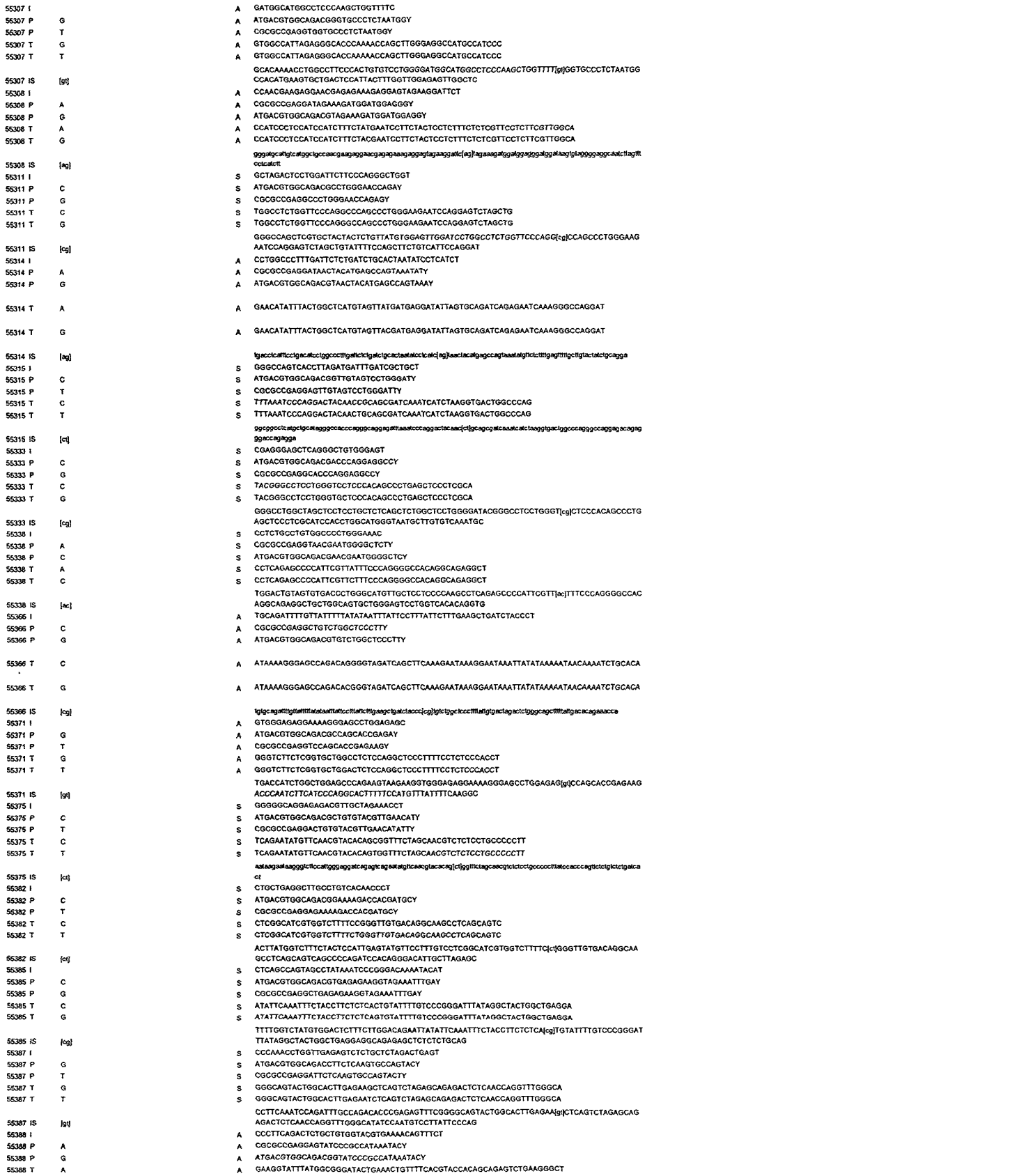

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55287 T G A ATTCCTCTTTATAGCCAACCCTACATGGAAGCATATTGGGAAGGCAACTGTGGGAAATGTA
55287 T T A ATTCCTCTTTATAGCCAACCCTAAATGGAAGCATATTGGGAAGGCAACTGTGGGAAATGTA
55287 IS [gt] agtcaacttagctaagtgggagctacatttcccacagttgccttcccaatatgcttccat[gt]taggtttggctataaaagaggaatatacatgagatccggaaggtgaaatgaagaaac agca
55293 I S CAGGATAGTGGCAGGTCCAGGTGGCAA
55293 P A S CGCGCCGAGGTCATGCCATACTTCAACCY
55293 P G S ATGACGTGGCAGACCCATGCCATACTTCAACCY
55293 T A S TTATGGTTGAAGTATGGCATGATGCCACCTGGACCTGCCACTATCCTGGC
55293 T G S TTATGGTTGAAGTATGGCATGGTGCCACCTGGACCTGCCACTATCCTGGC
55293 IS [ag] CCACTGCATGAGCTGCTGCAGAGAGGAAATTGATGGCATTTATGGTTGAAGTATGGCATG[ag]TGCCACCTGGACCTG CCACTATCCTGGCTGCCATGGCTGTACCCTGAATTGGGCAAGTGT
55294 I A ACGCGGCCGCACAGAGAGCACT
55294 P C A CGCGCCGAGGCGGACACAGCCGCY
55294 P G A ATGACGTGGCAGACGGGACACAGCCGCY
55294 T C A GCCGGCGGCTGTGTCCGGTGCTCTCTGTGCGGCCGCGTCC
55294 T G A GCCGGCGGCTGTGTCCCGTGCTCTCTGTGCGGCCGCGTCC
55294 IS [cg] GGTTCCGCGCAAGTTCATTCATCAGCATGAAGCACAGGGACGCGGCCGCACAGAGAGCAC[cg]GGACACAGCCGCCG GCTCACTCGGGCTAGAGCGACTTCCCAGATCAATAAACAAGTAAAT
55298 I S GCCAGTCAAGCTGGAGGGAGCACCATCT
55298 P C S ATGACGTGGCAGACGTGGAGCTCATCATTCAGY
55298 P T S CGCGCCGAGGATGGAGCTCATCATTCAGY
55298 T C S GCCACTGAATGATGAGCTCCACGATGGTGCTCCCTCCAGCTTGACTGGCCT
55298 T T S GCCACTGAATGATGAGCTCCATGATGGTGCTCCCTCCAGCTTGACTGGCCT
55298 IS [ct] ggaaaaggggtctggatgagggtccagggacaagacagagccactgaatgatgagctccat[ct]gatggtgctcccttccagcttgactggcctctcgtggctatgggcagccattg aatggcgc
55301 I S ACACTGACTTTGAAGCTGAGTCTAGAGAAGTAATCCTACT
55301 P C S ATGACGTGGCAGACGCACCTTACTTCACGTGY
55301 P T S CGCGCCGAGGACACCTTACTTCACGTGAY
55301 T C S CAGTTCACGTGAAGTAAGGTGCGTAGGATTACTTCTCTAGACTCAGCTTCAAAGTCAGTGTTA
55301 T T S CAGTTCACGTGAAGTAAGGTGTGTAGGATTACTTCTCTAGACTCAGCTTCAAAGTCAGTGTTA
55301 IS [ct] aatgaggaaatcattaagcacaggcaaggcaattagagggcagttcacgtgaagtaagggtg[ct]gtaggattactctctctagactcagcttcaaagtcagtgttagttaattaactctac agag
55304 I A GGTCCATGCCTTCAGCCCACCAGCT
55304 P A A CGCGCCGAGGATGTGTTGAGTACCTGTTGY
55304 P G A ATGACGTGGCAGACGTGTGTTGAGTACCTGTTGY
55304 T A A TACCCAACAGGTACTCAACACATGCTGGTGGGCTGAAGGCATGGACCAG
55304 T G A TACCCAACAGGTACTCAACACACGCTGGTGGGCTGAAGGCATGGACCAG
55304 IS [ag] CTGTCACTTAAACCTCTTCTGAAGAGCTTGAAGTCTGGTCCATGCCTTCAGCCCACCAGC[ag]TGTGTTGAGTACCTGT TGGGTACACAGCTCTGTGTCTGGTGGAGGGGAAACAAAGATTAA
55305 I S GACTTGGATGGCTTCCCCTACACAGGCAC
55305 P A S CGCGCCGAGGTGGTATGTCCTCTCTGGY
55305 P T S ATGACGTGGCAGACAGGTATGTCCTCTCTGGAY
55305 T A S GCTTTCCAGAGAGGACATACCATGCCTGTGTAGGGGAAGCCATCCAAGTCCC
55305 T T S GCTTTCCAGAGAGGACATACCTTGCCTGTGTAGGGGAAGCCATCCAAGTCCC
55305 IS [at] CTGCCCCAAATCATCCTGGACCATCCCTAGCCAGCCCCAGCTTTCCAGAGAGGACATACC[at]TGCCTGTGTAGGGGA AGCCATCCAAGTCCCAGGGGCAGACAGACTATAGTCTGTGGGTTT

FIGURE 129D


55307 I A GATGGCATGGCCTCCCAAGCTGGTTTTC
55307 P G A ATGACGTGGCAGACGGGTGCCCTCTAATGGY
55307 P T A CGCGCCGAGGTGGTGCCCTCTAATGGY
55307 T G A GTGGCCATTAGAGGGCACCCAAAACCAGCTTGGGAGGCCATGCCATCCC
55307 T T A GTGGCCATTAGAGGGCACCAAAAACCAGCTTGGGAGGCCATGCCATCCC
55307 IS [gt] GCACAAAACCTGGCCTTCCCACTGTGTCCTGGGGATGGCATGGCCTCCCAAGCTGGTTTT[gt]GGTGCCCTCTAATGG CCACATGAAGTGCTGACTCCATTACTTTGGTTGGAGAGTTGGCTC
55308 I A CCAACGAAGAGGAACGAGAGAAAGAGGAGTAGAAGGATTCT
55308 P A A CGCGCCGAGGATAGAAAGATGGATGGAGGGY
55308 P G A ATGACGTGGCAGACGTAGAAAGATGGATGGAGGY
55308 T A A CCATCCCTCCATCCATCTTTCTATGAATCCTTCTACTCCTCTTTCTCTCGTTCCTCTTCGTTGGCA
55308 T G A CCATCCCTCCATCCATCTTTCTACGAATCCTTCTACTCCTCTTTCTCTCGTTCCTCTTCGTTGGCA
55308 IS [ag] gggatgcattgtcatggctgccaacgaagaggaacgagagaaagaggagtagaaggattc[ag]tagaaagatggatggaggaatggaatagtgtagggaggcaatcttagttt cctcatctt
55311 I S GCTAGACTCCTGGATTCTTCCCAGGGCTGGT
55311 P C S ATGACGTGGCAGACGCCTGGGAACCAGAY
55311 P G S CGCGCCGAGGCCCTGGGAACCAGAGY
55311 T C S TGGCCTCTGGTTCCCAGGCCCAGCCCTGGGAAGAATCCAGGAGTCTAGCTG
55311 T G S TGGCCTCTGGTTCCCAGGGCCAGCCCTGGGAAGAATCCAGGAGTCTAGCTG
55311 IS [cg] GGGCCAGCTCGTGCTACTACTCTGTTATGTGGAGTTGGATCCTGGCCTCTGGTTCCCAGG[cg]CCAGCCCTGGGAAG AATCCAGGAGTCTAGCTGTATTTTCCAGCTTCTGTCATTCCAGGAT
55314 I A CCTGGCCCTTTGATTCTCTGATCTGCACTAATATCCTCATCT
55314 P A A CGCGCCGAGGATAACTACATGAGCCAGTAAATATY
55314 P G A ATGACGTGGCAGACGTAACTACATGAGCCAGTAAAY
55314 T A A GAACATATTTACTGGCTCATGTAGTTATGATGAGGATATTAGTGCAGATCAGAGAATCAAAGGGCCAGGAT
55314 T G A GAACATATTTACTGGCTCATGTAGTTACGATGAGGATATTAGTGCAGATCAGAGAATCAAAGGGCCAGGAT
55314 IS [ag] tgacctcatttccigacatcctggcccttgattctctgatctgcactaatatcctcatc[ag]taactacatgagccagtaaatatgttctcttttgagttttgcttgtactatctgcagga
55315 I S GGGCCAGTCACCTTAGATGATTTGATCGCTGCT
55315 P C S ATGACGTGGCAGACGGTTGTAGTCCTGGGATY
55315 P T S CGCGCCGAGGAGTTGTAGTCCTGGGATTY
55315 T C S TTTAAATCCCAGGACTACAACCGCAGCGATCAAATCATCTAAGGTGACTGGCCCAG
55315 T T S TTTAAATCCCAGGACTACAACTGCAGCGATCAAATCATCTAAGGTGACTGGCCCAG
55315 IS [ct] ggcggcctcatgctgcatagggccacccagggcaggagatttaaatcccaggactacaac[ct]gcagcgatcaaatcatctaaggtgactggcccagggccaggagacagag ggaccagagga
55333 I S CGAGGGAGCTCAGGGCTGTGGGAGT
55333 P C S ATGACGTGGCAGACGACCCAGGAGGCCY
55333 P G S CGCGCCGAGGCACCCAGGAGGCCY
55333 T C S TACGGGCCTCCTGGGTCCTCCCACAGCCCTGAGCTCCCTCGCA
55333 T G S TACGGGCCTCCTGGGTGCTCCCACAGCCCTGAGCTCCCTCGCA
55333 IS [cg] GGGCCTGGCTAGCTCCTCCTGCTCTCAGCTCTGGCTCCTGGGGATACGGGCCTCCTGGGT[cg]CTCCCACAGCCCTG AGCTCCCTCGCATCCACCTGGCATGGGTAATGCTTGTGTCAAATGC
55338 I S CCTCTGCCTGTGGCCCCTGGGAAAC
55338 P A S CGCGCCGAGGTAACGAATGGGGCTCTY
55338 P C S ATGACGTGGCAGACGAACGAATGGGGCTCY
55338 T A S CCTCAGAGCCCCATTCGTTATTTCCCAGGGGCCACAGGCAGAGGCT
55338 T C S CCTCAGAGCCCCATTCGTTCTTTCCCAGGGGCCACAGGCAGAGGCT
55338 IS [ac] TGGACTGTAGTGTGACCCTGGGCATGTTGCTCCTCCCCAAGCCTCAGAGCCCCATTCGTT[ac]TTTCCCAGGGGCCAC AGGCAGAGGCTGCTGGCAGTGCTGGGAGTCCTGGTCACACAGGTG
55366 I A TGCAGATTTTGTTATTTTTATATAATTTATTCCTTTATTCTTTGAAGCTGATCTACCCT
55366 P C A CGCGCCGAGGCTGTCTGGCTCCCTTY
55366 P G A ATGACGTGGCAGACGTGTCTGGCTCCCTTY
55366 T C A ATAAAAGGGAGCCAGACAGGGGTAGATCAGCTTCAAAGAATAAAGGAATAAATTATATAAAAATAACAAAATCTGCACA
55366 T G A ATAAAAGGGAGCCAGACAGGGTAGATCAGCTTCAAAGAATAAAGGAATAAATTATATAAAAATAACAAAATCTGCACA
55366 IS [cg] tgtgcagattttgttatttttatataatttattccttatcttgaagctgatctaccc[cg]tgtctggctcccttttattgtgactagactctgggcagcttttattgacacagaaacca
55371 I A GTGGGAGAGGAAAAGGGAGCCTGGAGAGC
55371 P G A ATGACGTGGCAGACGCCAGCACCGAGAY
55371 P T A CGCGCCGAGGTCCAGCACCGAGAAGY
55371 T G A GGGTCTTCTCGGTGCTGGCCTCTCCAGGCTCCCTTTTCCTCTCCCACCT
55371 T T A GGGTCTTCTCGGTGCTGGACTCTCCAGGCTCCCTTTTCCTCTCCCACCT
55371 IS [gt] TGACCATCTGGCTGGAGCCCAGAAGTAAGAAGGTGGGAGAGGAAAAGGGAGCCTGGAGAG[gt]CCAGCACCGAGAAG ACCCAATCTTCATCCCAGGCACTTTTTCCATGTTTATTTTCAAGGC
55375 I S GGGGGCAGGAGAGACGTTGCTAGAAACCT
55375 P C S ATGACGTGGCAGACGCTGTGTACGTTGAACATY
55375 P T S CGCGCCGAGGACTGTGTACGTTGAACATATTY
55375 T C S TCAGAATATGTTCAACGTACACAGCGGTTTCTAGCAACGTCTCTCCTGCCCCCTT
55375 T T S TCAGAATATGTTCAACGTACACAGTGGTTTCTAGCAACGTCTCTCCTGCCCCCTT
55375 IS [ct] aataagaataagggtctccattgggaggatcagagtcagaatatgttcaacgtacacag[ct]ggtttctagcaacgtctctcctgccccctttatccacccagtctctgtctctgatca ct
55382 I S CTGCTGAGGCTTGCCTGTCACAACCCT
55382 P C S ATGACGTGGCAGACGGAAAAGACCACGATGCY
55382 P T S CGCGCCGAGGAGAAAAGACCACGATGCY
55382 T C S CTCGGCATCGTGGTCTTTTCCGGGTTGTGACAGGCAAGCCTCAGCAGTC
55382 T T S CTCGGCATCGTGGTCTTTTCTGGGTTGTGACAGGCAAGCCTCAGCAGTC
55382 IS [ct] ACTTATGGTCTTTCTACTCCATTGAGTATGTTCCTTTGTCCTCGGCATCGTGGTCTTTTC[ct]GGGTTGTGACAGGCAA GCCTCAGCAGTCAGCCCCAGATCCACAGGGACATTGCTTAGAGC
55385 I S CTCAGCCAGTAGCCTATAAATCCCGGGACAAAATACAT
55385 P C S ATGACGTGGCAGACGTGAGAGAAGGTAGAAATTTGAY
55385 P G S CGCGCCGAGGCTGAGAGAAGGTAGAAATTTGAY
55385 T C S ATATTCAAATTTCTACCTTCTCTCACTGTATTTTGTCCCGGGATTTATAGGCTACTGGCTGAGGA
55385 T G S ATATTCAAATTTCTACCTTCTCTCAGTGTATTTTGTCCCGGGATTTATAGGCTACTGGCTGAGGA
55385 IS [cg] TTTTGGTCTATGTGGACTCTTTCTTGGACAGAATTATATTCAAATTTCTACCTTCTCTCA[cg]TGTATTTTGTCCCGGGAT TTATAGGCTACTGGCTGAGGAGGCAGAGAGCTCTCTCTGCAG
55387 I S CCCAAACCTGGTTGAGAGTCTCTGCTCTAGACTGAGT
55387 P G S ATGACGTGGCAGACCTTCTCAAGTGCCAGTACY
55387 P T S CGCGCCGAGGATTCTCAAGTGCCAGTACTY
55387 T G S GGGCAGTACTGGCACTTGAGAAGCTCAGTCTAGAGCAGAGACTCTCAACCAGGTTTGGGCA
55387 T T S GGGCAGTACTGGCACTTGAGAATCTCAGTCTAGAGCAGAGACTCTCAACCAGGTTTGGGCA
55387 IS [gt] CCTTCAAATCCAGATTTGCCAGACACCCGAGAGTTTCGGGGCAGTACTGGCACTTGAGAA[gt]CTCAGTCTAGAGCAG AGACTCTCAACCAGGTTTGGGCATATCCAATGTCCTTATTCCCAG
55388 I A CCCTTCAGACTCTGCTGTGGTACGTGAAAACAGTTTCT
55388 P A A CGCGCCGAGGAGTATCCCGCCATAAATACY
55388 P G A ATGACGTGGCAGACGGTATCCCGCCATAAATACY
55388 T A A GAAGGTATTTATGGCGGGATACTGAAACTGTTTTCACGTACCACAGCAGAGTCTGAAGGGCT

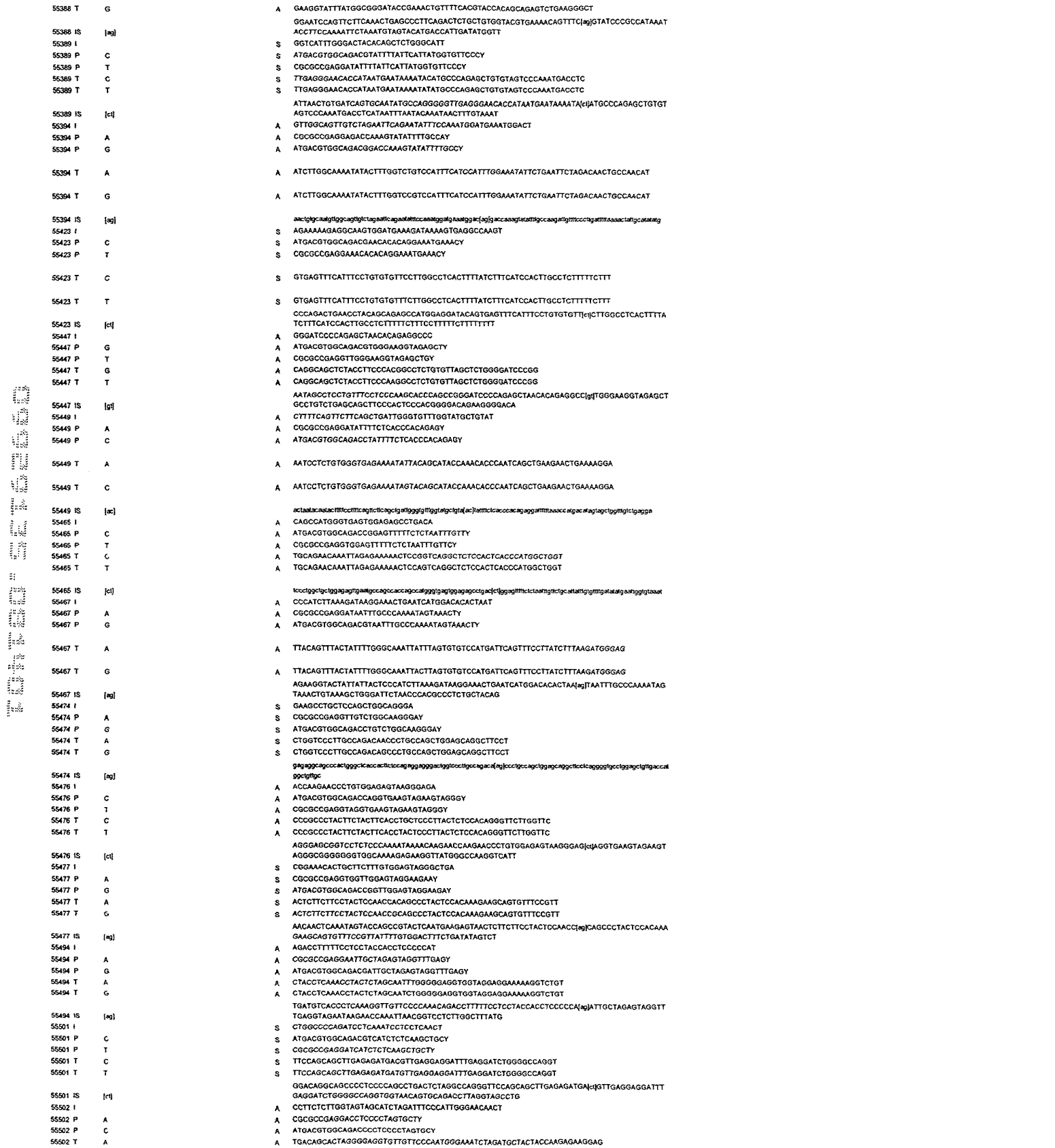

55388 T G A GAAGGTATTTATGGCGGGATACCGAAACTGTTTTCACGTACCACAGCAGAGTCTGAAGGGCT
55388 IS [ag] GGAATCCAGTTCTTCAAACTGAGCCCTTCAGACTCTGCTGTGGTACGTGAAAACAGTTTC[ag]GTATCCCGCCATAAAT
ACCTTCCAAAATTCTAAATGTAGTACATGACCATTGATATGGTT
55389 I S GGTCATTTGGGACTACACAGCTCTGGGCATT
55389 P C S ATGACGTGGCAGACGTATTTTATTCATTATGGTGTTCCCY
55389 P T S CGCGCCGAGGATATTTTATTCATTATGGTGTTCCCY
55389 T C S TTGAGGGAACACCATAATGAATAAAATACATGCCCAGAGCTGTGTAGTCCCAAATGACCTC
55389 T T S TTGAGGGAACACCATAATGAATAAAATATATGCCCAGAGCTGTGTAGTCCCAAATGACCTC
55389 IS [ct] ATTAACTGTGATCAGTGCAATATGCCAGGGGGTTGAGGGAACACCATAATGAATAAAATA[ct]ATGCCCAGAGCTGTGT
AGTCCCAAATGACCTCATAATTTAATACAAATAACTTTGTAAAT
55394 I A GTTGGCAGTTGTCTAGAATTCAGAATATTTCCAAATGGATGAAATGGACT
55394 P A A CGCGCCGAGGAGACCAAAGTATATTTTGCCAY
55394 P G A ATGACGTGGCAGACGGACCAAAGTATATTTTGCCY
55394 T A A ATCTTGGCAAAATATACTTTGGTCTGTCCATTTCATCCATTTGGAAATATTCTGAATTCTAGACAACTGCCAACAT
55394 T G A ATCTTGGCAAAATATACTTTGGTCCGTCCATTTCATCCATTTGGAAATATTCTGAATTCTAGACAACTGCCAACAT
55394 IS [ag] aactgtgcaatgtggcagttgtctagaattcagaatatttccaaatggatgaaatggac[ag]gaccaaagtatatttgccaagatgtttccctagatttttaaaactatgcatatatg
55423 I S AGAAAAAGAGGCAAGTGGATGAAAGATAAAAGTGAGGCCAAGT
55423 P C S ATGACGTGGCAGACGAACACACAGGAAATGAAACY
55423 P T S CGCGCCGAGGAAACACACAGGAAATGAAACY
55423 T C S GTGAGTTTCATTTCCTGTGTGTTCCTTGGCCTCACTTTTATCTTTCATCCACTTGCCTCTTTTTCTTT
55423 T T S GTGAGTTTCATTTCCTGTGTGTTTCTTGGCCTCACTTTTATCTTTCATCCACTTGCCTCTTTTTCTTT
55423 IS [ct] CCCAGACTGAACCTACAGCAGAGCCATGGAGGATACAGTGAGTTTCATTTCCTGTGTGTT[ct]CTTGGCCTCACTTTTA
TCTTTCATCCACTTGCCTCTTTTTCTTTCCTTTTTCTTTTTTTT
55447 I A GGGATCCCCAGAGCTAACACAGAGGCCC
55447 P G A ATGACGTGGCAGACGTGGGAAGGTAGAGCTY
55447 P T A CGCGCCGAGGTTGGGAAGGTAGAGCTGY
55447 T G A CAGGCAGCTCTACCTTCCCACGGCCTCTGTGTTAGCTCTGGGGATCCCGG
55447 T T A CAGGCAGCTCTACCTTCCCAAGGCCTCTGTGTTAGCTCTGGGGATCCCGG
55447 IS [gt] AATAGCCTCCTGTTTCCTCCCAAGCACCCAGCCGGGATCCCCAGAGCTAACACAGAGGCC[gt]TGGGAAGGTAGAGCT
GCCTGTCTGAGCAGCTTCCCACTCCCACGGGGACAGAAGGGGACA
55449 I A CTTTTCAGTTCTTCAGCTGATTGGGTGTTTGGTATGCTGTAT
55449 P A A CGCGCCGAGGATATTTTCTCACCCACAGAGY
55449 P C A ATGACGTGGCAGACCTATTTTCTCACCCACAGAGY
55449 T A A AATCCTCTGTGGGTGAGAAAATATTACAGCATACCAAACACCCAATCAGCTGAAGAACTGAAAAGGA
55449 T C A AATCCTCTGTGGGTGAGAAAATAGTACAGCATACCAAACACCCAATCAGCTGAAGAACTGAAAAGGA
55449 IS [ac] actaatacaatactttttcctttcagttcttcagctgattgggtgtttggtatgctgta[ac]tatttctctcaccccacagaggatttttaaaccctgactagctggtttgtctgagga
55465 I A CAGCCATGGGTGAGTGGAGAGCCTGACA
55465 P C A ATGACGTGGCAGACCGGAGTTTTTCTCTAATTTGTTY
55465 P T A CGCGCCGAGGTGGAGTTTTTCTCTAATTTGTTCY
55465 T C A TGCAGAACAAATTAGAGAAAAACTCCGGTCAGGCTCTCCACTCACCCATGGCTGGT
55465 T T A TGCAGAACAAATTAGAGAAAAACTCCAGTCAGGCTCTCCACTCACCCATGGCTGGT
55465 IS [ct] tccctggctgctggagagttgaatgccagccaccagccatgggtgagtggagagcctgac[ct]ggagttttctctaattgttctgcattatttgtgtttgatatatgaatggtgtaaat
55467 I A CCCATCTTAAAGATAAGGAAACTGAATCATGGACACACTAAT
55467 P A A CGCGCCGAGGATAATTTGCCCAAAATAGTAAACTY
55467 P G A ATGACGTGGCAGACGTAATTTGCCCAAAATAGTAAACTY
55467 T A A TTACAGTTTACTATTTTGGGCAAATTATTTAGTGTGTCCATGATTCAGTTTCCTTATCTTTAAGATGGGAG
55467 T G A TTACAGTTTACTATTTTGGGCAAATTACTTAGTGTGTCCATGATTCAGTTTCCTTATCTTTAAGATGGGAG
55467 IS [ag] AGAAGGTACTATTATTACTCCCATCTTAAAGATAAGGAAACTGAATCATGGACACACTAA[ag]TAATTTGCCCAAAATAG
TAAACTGTAAAGCTGGGATTCTAACCCACGCCCTCTGCTACAG
55474 I S GAAGCCTGCTCCAGCTGGCAGGGA
55474 P A S CGCGCCGAGGTTGTCTGGCAAGGGAY
55474 P G S ATGACGTGGCAGACCTGTCTGGCAAGGGAY
55474 T A S CTGGTCCCTTGCCAGACAACCCTGCCAGCTGGAGCAGGCTTCCT
55474 T G S CTGGTCCCTTGCCAGACAGCCCTGCCAGCTGGAGCAGGCTTCCT
55474 IS [ag] gagaggcagccactgggctcacactctccagaggagggactggtcccttgccagaca[ag]ccctgccagctggagcaggcttcctcagggtgccctggagctgttgaccat
ggctgttgc
55476 I A ACCAAGAACCCTGTGGAGAGTAAGGGAGA
55476 P C A ATGACGTGGCAGACCAGGTGAAGTAGAAGTAGGGY
55476 P T A CGCGCCGAGGTAGGTGAAGTAGAAGTAGGGY
55476 T C A CCCGCCCTACTTCTACTTCACCTGCTCCCTTACTCTCCACAGGGTTCTTGGTTC
55476 T T A CCCGCCCTACTTCTACTTCACCTACTCCCTTACTCTCCACAGGGTTCTTGGTTC
55476 IS [ct] AGGGAGCGGTCCTCTCCCAAAATAAAACAAGAACCAAGAACCCTGTGGAGAGTAAGGGAG[ct]AGGTGAAGTAGAAGT
AGGGCGGGGGGGTGGCAAAAGAGAAGGTTATGGGCCAAGGTCATT
55477 I S CGGAAACACTGCTTCTTTGTGGAGTAGGGCTGA
55477 P A S CGCGCCGAGGTGGTTGGAGTAGGAAGAAY
55477 P G S ATGACGTGGCAGACCGGTTGGAGTAGGAAGAY
55477 T A S ACTCTTCTTCCTACTCCAACCACAGCCCTACTCCACAAAGAAGCAGTGTTTCCGTT
55477 T G S ACTCTTCTTCCTACTCCAACCGCAGCCCTACTCCACAAAGAAGCAGTGTTTCCGTT
55477 IS [ag] AACAACTCAAATAGTACCAGCCGTACTCAATGAAGAGTAACTCTTCTTCCTACTCCAACC[ag]CAGCCCTACTCCACAAA
GAAGCAGTGTTTCCGTTATTTTGTGGACTTTCTGATATAGTCT
55494 I A AGACCTTTTTCCTCCTACCACCTCCCCCAT
55494 P A A CGCGCCGAGGAATTGCTAGAGTAGGTTTGAGY
55494 P G A ATGACGTGGCAGACGATTGCTAGAGTAGGTTTGAGY
55494 T A A CTACCTCAAACCTACTCTAGCAATTTGGGGGAGGTGGTAGGAGGAAAAAGGTCTGT
55494 T G A CTACCTCAAACCTACTCTAGCAATCTGGGGGAGGTGGTAGGAGGAAAAAGGTCTGT
55494 IS [ag] TGATGTCACCCTCAAAGGTTGTTCCCCAAACAGACCTTTTTCCTCCTACCACCTCCCCCA[ag]ATTGCTAGAGTAGGTT
TGAGGTAGAATAAGAACCAAATTAACGGTCCTCTTGGCTTTATG
55501 I S CTGGCCCCAGATCCTCAAATCCTCCTCAACT
55501 P C S ATGACGTGGCAGACGTCATCTCTCAAGCTGCY
55501 P T S CGCGCCGAGGATCATCTCTCAAGCTGCTY
55501 T C S TTCCAGCAGCTTGAGAGATGACGTTGAGGAGGATTTGAGGATCTGGGGCCAGGT
55501 T T S TTCCAGCAGCTTGAGAGATGATGTTGAGGAGGATTTGAGGATCTGGGGCCAGGT
55501 IS [ct] GGACAGGCAGCCCCTCCCCAGCCTGACTCTAGGCCAGGGTTCCAGCAGCTTGAGAGATGA[ct]GTTGAGGAGGATTT
GAGGATCTGGGGCCAGGTGGTAACAGTGCAGACCTTAGGTAGCCTG
55502 I A CCTTCTCTTGGTAGTAGCATCTAGATTTCCCATTGGGAACAACT
55502 P A A CGCGCCGAGGACCTCCCCTAGTGCTY
55502 P C A ATGACGTGGCAGACCCCTCCCCTAGTGCY
55502 T A A TGACAGCACTAGGGGAGGTGTTGTTCCCAATGGGAAATCTAGATGCTACTACCAAGAGAAGGAG

FIGURE 129D

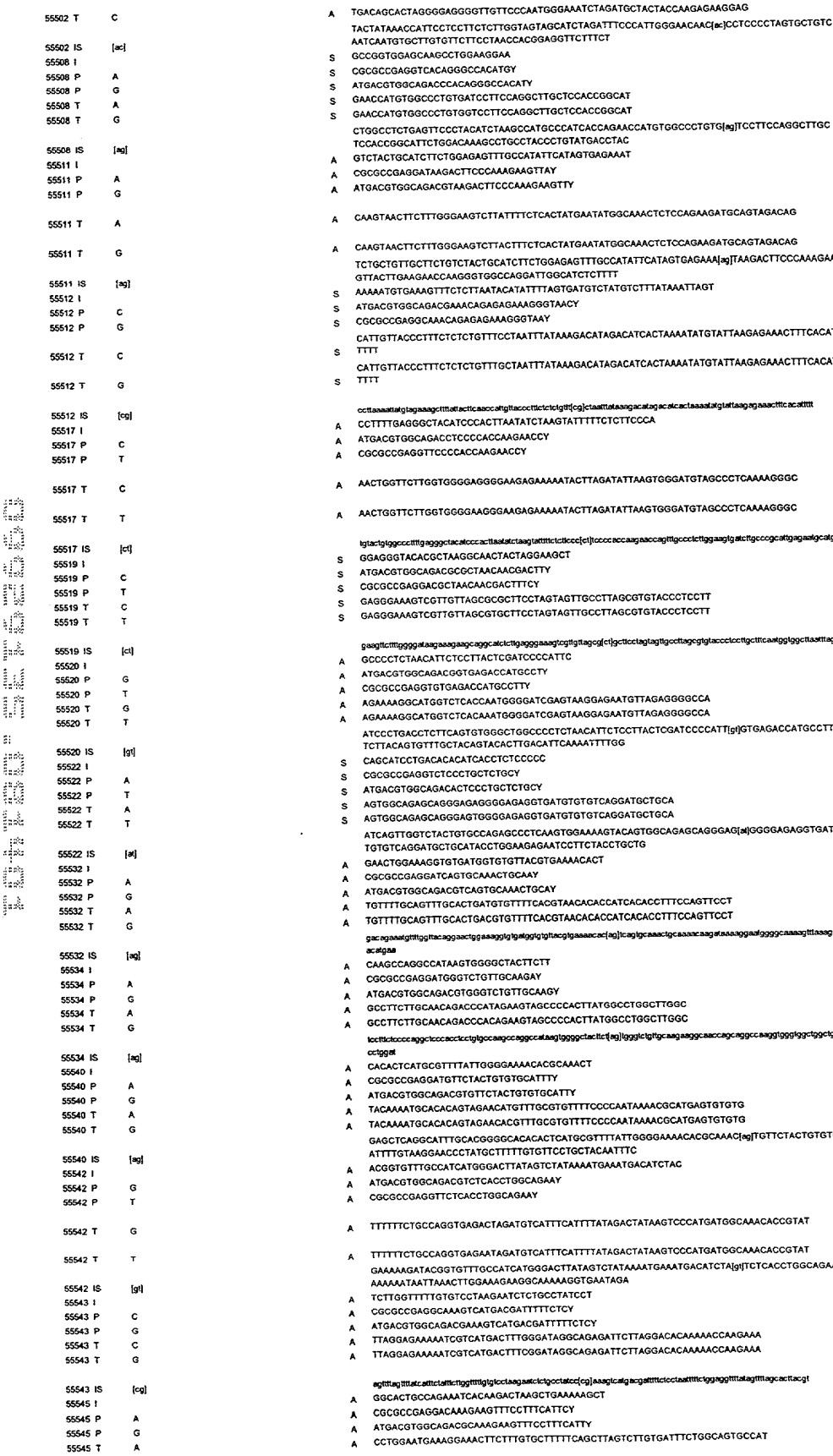


FIGURE 129D

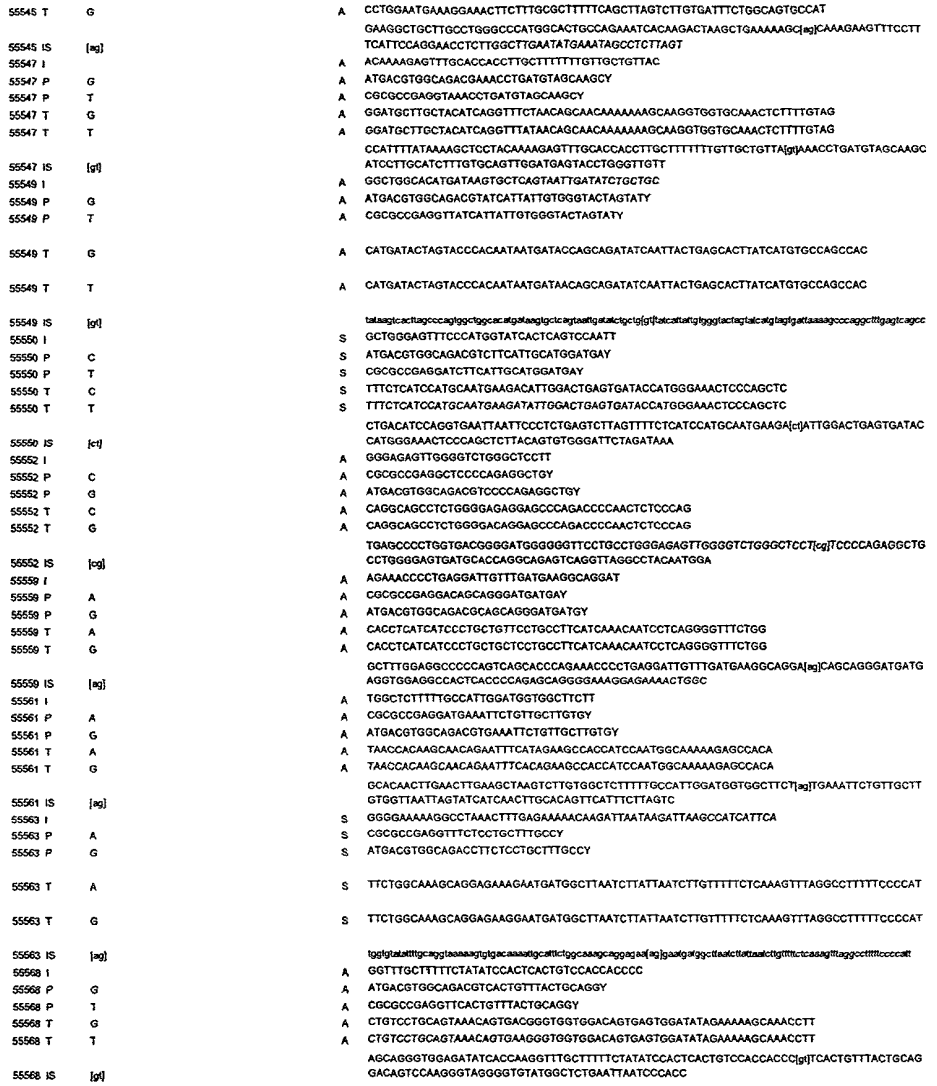
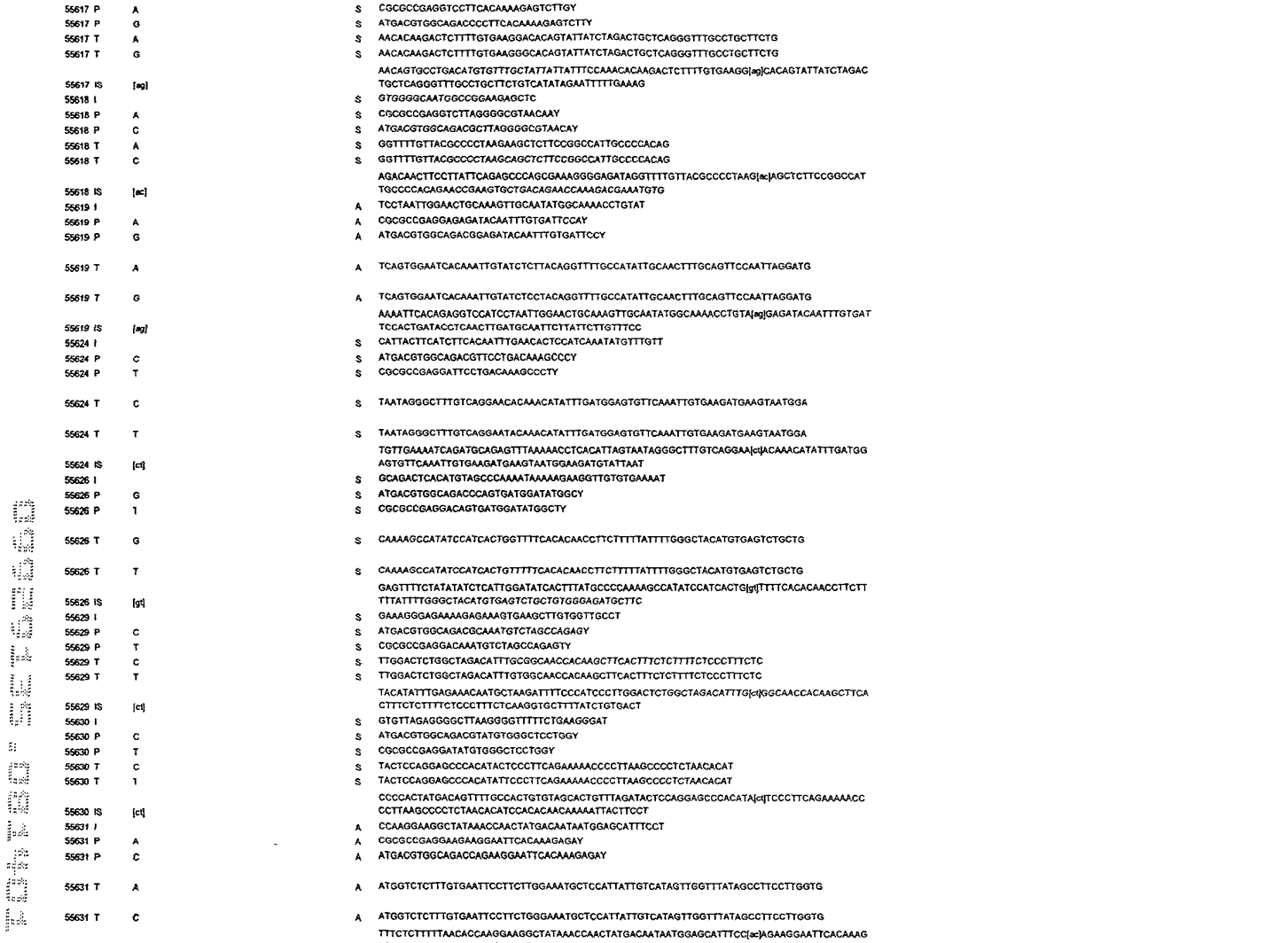

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GAAGGCTGCTTGCCTGGGCCCATGGCACTGCCAGAAATCACAAGACTAAGCTGAAAAAGC[ag]CAAAGAAGTTTCCTT
55545 IS [ag] TCATTCCAGGAACCTCTTGGCTTGAATATGAAATAGCCTCTTAGT
55547 I A ACAAAAGAGTTTGCACCACCTTGCTTTTTTTTGTTGCTGTTAC
55547 P G A ATGACGTGGCAGACGAAACCTGATGTAGCAAGCY
55547 P T A CGCGCCGAGGTAAACCTGATGTAGCAAGCY
55547 T G A GGATGCTTGCTACATCAGGTTTCTAACAGCAACAAAAAAAGCAAGGTGGTGCAAACTCTTTTGTAG
55547 T T A GGATGCTTGCTACATCAGGTTTATAACAGCAACAAAAAAAGCAAGGTGGTGCAAACTCTTTTGTAG
55547 IS [gt] CCATTTTATAAAAGCTCCTACAAAAGAGTTTGCACCACCTTGCTTTTTTTGTTGCTGTTA[gt]AAACCTGATGTAGCAAGC ATCCTTGCATCTTTGTGCAGTTGGATGAGTACCTGGGTTGTT
55549 I A GGCTGGCACATGATAAGTGCTCAGTAATTGATATCTGCTGC
55549 P G A ATGACGTGGCAGACGTATCATTATTGTGGGTACTAGTATY
55549 P T A CGCGCCGAGGTTATCATTATTGTGGGTACTAGTATY
55549 T G A CATGATACTAGTACCCACAATAATGATACCAGCAGATATCAATTACTGAGCACTTATCATGTGCCAGCCAC
55549 T T A CATGATACTAGTACCCACAATAATGATAACAGCAGATATCAATTACTGAGCACTTATCATGTGCCAGCCAC
55549 IS [gt] tataagtcacttagcccagtggctggcacatgataagtgctcagtaattgatatctgctg[gt]tatcattattgtgggtactagtatcatgtagtgattaaaagcccaggctttgagtcagcc
55550 I S GCTGGGAGTTTCCCATGGTATCACTCAGTCCAATT
55550 P C S ATGACGTGGCAGACGTCTTCATTGCATGGATGAY
55550 P T S CGCGCCGAGGATCTTCATTGCATGGATGAY
55550 T C S TTTCTCATCCATGCAATGAAGACATTGGACTGAGTGATACCATGGGAAACTCCCAGCTC
55550 T T S TTTCTCATCCATGCAATGAAGATATTGGACTGAGTGATACCATGGGAAACTCCCAGCTC
55550 IS [ct] CTGACATCCAGGTGAATTAATTCCCTCTGAGTCTTAGTTTTCTCATCCATGCAATGAAGA[ct]ATTGGACTGAGTGATAC CATGGGAAACTCCCAGCTCTTACAGTGTGGGATTCTAGATAAA
55552 I A GGGAGAGTTGGGGTCTGGGCTCCTT
55552 P C A CGCGCCGAGGCTCCCCAGAGGCTGY
55552 P G A ATGACGTGGCAGACGTCCCCAGAGGCTGY
55552 T C A CAGGCAGCCTCTGGGGAGAGGAGCCCAGACCCCAACTCTCCCAG
55552 T G A CAGGCAGCCTCTGGGGACAGGAGCCCAGACCCCAACTCTCCCAG
55552 IS [cg] TGAGCCCCTGGTGACGGGGATGGGGGGTTCCTGCCTGGGAGAGTTGGGGTCTGGGCTCCT[cg]TCCCCAGAGGCTG CCTGGGGAGTGATGCACCAGGCAGAGTCAGGTTAGGCCTACAATGGA
55559 I A AGAAACCCCTGAGGATTGTTTGATGAAGGCAGGAT
55559 P A A CGCGCCGAGGACAGCAGGGATGATGAY
55559 P G A ATGACGTGGCAGACGCAGCAGGGATGATGY
55559 T A A CACCTCATCATCCCTGCTGTTCCTGCCTTCATCAAACAATCCTCAGGGGTTTCTGG
55559 T G A CACCTCATCATCCCTGCTGCTCCTGCCTTCATCAAACAATCCTCAGGGGTTTCTGG
55559 IS [ag] GCTTTGGAGGCCCCCAGTCAGCACCCAGAAACCCCTGAGGATTGTTTGATGAAGGCAGGA[ag]CAGCAGGGATGATG AGGTGGAGGCCACTCACCCCAGAGCAGGGGAAAGGAGAAAACTGGC
55561 I A TGGCTCTTTTTGCCATTGGATGGTGGCTTCTT
55561 P A A CGCGCCGAGGATGAAATTCTGTTGCTTGTGY
55561 P G A ATGACGTGGCAGACGTGAAATTCTGTTGCTTGTGY
55561 T A A TAACCACAAGCAACAGAATTTCATAGAAGCCACCATCCAATGGCAAAAAGAGCCACA
55561 T G A TAACCACAAGCAACAGAATTTCACAGAAGCCACCATCCAATGGCAAAAAGAGCCACA
55561 IS [ag] GCACAACTTGAACTTGAAGCTAAGTCTTGTGGCTCTTTTTGCCATTGGATGGTGGCTTCT[ag]TGAAATTCTGTTGCTT GTGGTTAATTAGTATCATCAACTTGCACAGTTCATTTCTTAGTC
55563 I S GGGGAAAAAGGCCTAAACTTTGAGAAAAACAAGATTAATAAGATTAAGCCATCATTCA
55563 P A S CGCGCCGAGGTTTCTCCTGCTTTGCCY
55563 P G S ATGACGTGGCAGACCTTCTCCTGCTTTGCCY
55563 T A S TTCTGGCAAAGCAGGAGAAAGAATGATGGCTTAATCTTATTAATCTTGTTTTTCTCAAAGTTTAGGCCTTTTTCCCCAT
55563 T G S TTCTGGCAAAGCAGGAGAAGGAATGATGGCTTAATCTTATTAATCTTGTTTTTCTCAAAGTTTAGGCCTTTTTCCCCAT
55563 IS [ag] tggtgtatatttgcaggtaaaaagtgtgcacaaaatgcatttctggcaaagcaggagaa[ag]gaatgatggcttaatcttattaatcttgttttctcaaagtttaggccttttcccccatt
55568 I A GGTTTGCTTTTTCTATATCCACTCACTGTCCACCACCCC
55568 P G A ATGACGTGGCAGACGTCACTGTTTACTGCAGGY
55568 P T A CGCGCCGAGGTTCACTGTTTACTGCAGGY
55568 T G A CTGTCCTGCAGTAAACAGTGACGGGTGGTGGACAGTGAGTGGATATAGAAAAAGCAAACCTT
55568 T T A CTGTCCTGCAGTAAACAGTGAAGGGTGGTGGACAGTGAGTGGATATAGAAAAAGCAAACCTT
55568 IS [gt] AGCAGGGTGGAGATATCACCAAGGTTTGCTTTTTCTATATCCACTCACTGTCCACCACCC[gt]TCACTGTTTACTGCAG GACAGTCCAAGGGTAGGGGTGTATGGCTCTGAATTAATCCCACC
55574 I A TCCCTGACCACATGGCCTTCCTTTCCTCTTAT
55574 P A A CGCGCCGAGGATCCATGACCCTTTTAAATTTTCY
55574 P G A ATGACGTGGCAGACGTCCATGACCCTTTTAAATTTTY
55574 T A A TATAGAAAATTTAAAAGGGTCATGGATTAAGAGGAAAGGAAGGCCATGTGGTCAGGGACA
55574 T G A TATAGAAAATTTAAAAGGGTCATGGACTAAGAGGAAAGGAAGGCCATGTGGTCAGGGACA
55574 IS [ag] CCGAAACAAGCACGAAAATGATGCCCTTGTCCCTGACCACATGGCCTTCCTTTCCTCTTA[ag]TCCATGACCCTTTTAA ATTTTCTATATAGCATTATAATACTATTATTTGAATAACTACAT
55596 I S CCTGGTAGTTTCCTGTGCATGAATAAACTGGGAGCATAT
55596 P C S ATGACGTGGCAGACGTGTGTGCACTGCTTCY
55596 P G S CGCGCCGAGGCTGTGTGCACTGCTTCY
55596 T C S AATGGAAGCAGTGCACACACTATGCTCCCAGTTTATTCATGCACAGGAAACTACCAGGAG
55596 T G S AATGGAAGCAGTGCACACAGTATGCTCCCAGTTTATTCATGCACAGGAAACTACCAGGAG
55596 IS [cg] CTGTGTGCTGAAATGTAAAAGACTGCTAATACGAAGAGACAAATGGAAGCAGTGCACACA[cg]TATGCTCCCAGTTTAT TCATGCACAGGAAACTACCAGGAGGATTTACTACAACCTGGCAC
55608 I A GGCAAAAACTGATAGTCTCAGTTAGATAACACACTGCCTCCC
55608 P G A ATGACGTGGCAGACGGTCAAGGTCAGAAGAGTY
55608 P T A CGCGCCGAGGTGTCAAGGTCAGAAGAGTAY
55608 T G A TGGGTACTCTTCTGACCTTGACCGGAGGCAGTGTGTTATCTAACTGAGACTATCAGTTTTTGCCCT
55608 T T A TGGGTACTCTTCTGACCTTGACAGGAGGCAGTGTGTTATCTAACTGAGACTATCAGTTTTTGCCCT
55608 IS [gt] tcagggagcagtttcaagggcaaaaactgatagtctcagttagataacacactgcctcc[gt]gtcaaggtcagaagagtacccattaatatgatctttgtagcctccaagcaagtca gaaca
55612 I S TCTGCAGTGTCCAAAATCCATCAGTTCTGCTTTCATTCTGT
55612 P G S ATGACGTGGCAGACCCATTCATTCACCTACTCTGY
55612 P T S CGCGCCGAGGACATTCATTCACCTACTCTGY
55612 T G S TAGCCAGAGTAGGTGAATGAATGGCAGAATGAAAGCAGAACTGATGGATTTTGGACACTGCAGACA
55612 T T S TAGCCAGAGTAGGTGAATGAATGTCAGAATGAAAGCAGAACTGATGGATTTTGGACACTGCAGACA
55612 IS [gt] tacagagtgggcctgtggtcagagccaccctgagtagccagagtaggtgaatgaatg[gt]cagaatgaaagcagaactgatggatttggacactgcagacagatctttcttttttt ccc
55614 I S GGGGAGCTTTTGGAGTCTCTCTACTCTCTAATTCCCTT
55614 P C S ATGACGTGGCAGACGTTGCAGAAGGTCCAGY
55614 P T S CGCGCCGAGGATTGCAGAAGGTCCAGY
55614 T C S AAAGCTGGACCTTCTGCAACAGGGAATTAGAGAGTAGAGAGACTCCAAAAGCTCCCCAA
55614 T T S AAAGCTGGACCTTCTGCAATAGGGAATTAGAGAGTAGAGAGACTCCAAAAGCTCCCCAA
55614 IS [ct] AGGTGATGAATGATGAATAAGAACTTGGAAGGGATTGAGCCAAAGCTGGACCTTCTGCAA[ct]AGGGAATTAGAGAGTA GAGAGACTCCAAAAGCTCCCCAAAGAGTTCACAGAGGTGTTGCT
55617 I S GAAGCAGGCAAACCCTGAGCAGTCTAGATAATACTGTGA

FIGURE 129D


55617 P A S CGCGCCGAGGTCCTTCACAAAAGAGTCTTGY
55617 P G S ATGACGTGGCAGACCCCTTCACAAAAGAGTCTTY
55617 T A S AACACAAGACTCTTTTGTGAAGGACACAGTATTATCTAGACTGCTCAGGGTTTGCCTGCTTCTG
55617 T G S AACACAAGACTCTTTTGTGAAGGGCACAGTATTATCTAGACTGCTCAGGGTTTGCCTGCTTCTG
AACAGTGCCTGACATGTGTTTGCTATTATTATTTCCAAACACAAGACTCTTTTGTGAAGG[ag]CACAGTATTATCTAGAC
55617 IS [ag] TGCTCAGGGTTTGCCTGCTTCTGTCATATAGAATTTTTGAAAG
55618 I S GTGGGGCAATGGCCGGAAGAGCTC
55618 P A S CGCGCCGAGGTCTTAGGGGCGTAACAAY
55618 P C S ATGACGTGGCAGACGCTTAGGGGCGTAACAY
55618 T A S GGTTTTGTTACGCCCCTAAGAAGCTCTTCCGGCCATTGCCCCACAG
55618 T C S GGTTTTGTTACGCCCCTAAGCAGCTCTTCCGGCCATTGCCCCACAG
AGACAACTTCCTTATTCAGAGCCCAGCGAAAGGGGAGATAGGTTTTGTTACGCCCCTAAG[ac]AGCTCTTCCGGCCAT
55618 IS [ac] TGCCCCACAGAACGAAGTGCTGACAGAACCAAAGACGAAATGTG
55619 I A TCCTAATTGGAACTGCAAAGTTGCAATATGGCAAAACCTGTAT
55619 P A A CGCGCCGAGGAGAGATACAATTTGTGATTCCAY
55619 P G A ATGACGTGGCAGACGGAGATACAATTTGTGATTCCY
55619 T A A TCAGTGGAATCACAAATTGTATCTCTTACAGGTTTTGCCATATTGCAACTTTGCAGTTCCAATTAGGATG
55619 T G A TCAGTGGAATCACAAATTGTATCTCCTACAGGTTTTGCCATATTGCAACTTTGCAGTTCCAATTAGGATG
AAAATTCACAGAGGTCCATCCTAATTGGAACTGCAAAGTTGCAATATGGCAAAACCTGTA[ag]GAGATACAATTTGTGAT
55619 IS [ag] TCCACTGATACCTCAACTTGATGCAATTCTTATTCTTGTTTCC
55624 I S CATTACTTCATCTTCACAATTTGAACACTCCATCAAATATGTTTGTT
55624 P C S ATGACGTGGCAGACGTTCCTGACAAAGCCCY
55624 P T S CGCGCCGAGGATTCCTGACAAAGCCCTY
55624 T C S TAATAGGGCTTTGTCAGGAACACAAACATATTTGATGGAGTGTTCAAATTGTGAAGATGAAGTAATGGA
55624 T T S TAATAGGGCTTTGTCAGGAATACAAACATATTTGATGGAGTGTTCAAATTGTGAAGATGAAGTAATGGA
TGTTGAAAATCAGATGCAGAGTTTAAAAACCTCACATTAGTAATAGGGCTTTGTCAGGAA[ct]ACAAACATATTTGATGG
55624 IS [ct] AGTGTTCAAATTGTGAAGATGAAGTAATGGAAGATGTATTAAT
55626 I S GCAGACTCACATGTAGCCCAAAATAAAAAGAAGGTTGTGTGAAAAT
55626 P G S ATGACGTGGCAGACCCAGTGATGGATATGGCY
55626 P T S CGCGCCGAGGACAGTGATGGATATGGCTY
55626 T G S CAAAAGCCATATCCATCACTGGTTTTCACACAACCTTCTTTTTATTTTGGGCTACATGTGAGTCTGCTG
55626 T T S CAAAAGCCATATCCATCACTGTTTTTCACACAACCTTCTTTTTATTTTGGGCTACATGTGAGTCTGCTG
GAGTTTTCTATATATCTCATTGGATATCACTTTATGCCCCAAAAGCCATATCCATCACTG[gt]TTTTCACACAACCTTCTT
55626 IS [gt] TTTATTTTGGGCTACATGTGAGTCTGCTGTGGGAGATGCTTC
55629 I S GAAAGGGAGAAAAGAGAAAGTGAAGCTTGTGGTTGCCT
55629 P C S ATGACGTGGCAGACGCAAATGTCTAGCCAGAGY
55629 P T S CGCGCCGAGGACAAATGTCTAGCCAGAGTY
55629 T C S TTGGACTCTGGCTAGACATTTGCGGCAACCACAAGCTTCACTTTCTCTTTTCTCCCTTTCTC
55629 T T S TTGGACTCTGGCTAGACATTTGTGGCAACCACAAGCTTCACTTTCTCTTTTCTCCCTTTCTC
TACATATTTGAGAAACAATGCTAAGATTTTCCCATCCCTTGGACTCTGGCTAGACATTTG[ct]GGCAACCACAAGCTTCA
55629 IS [ct] CTTTCTCTTTTCTCCCTTTCTCAAGGTGCTTTTATCTGTGACT
55630 I S GTGTTAGAGGGGCTTAAGGGGTTTTTCTGAAGGGAT
55630 P C S ATGACGTGGCAGACGTATGTGGGCTCCTGGY
55630 P T S CGCGCCGAGGATATGTGGGCTCCTGGY
55630 T C S TACTCCAGGAGCCCACATACTCCCTTCAGAAAAACCCCTTAAGCCCCTCTAACACAT
55630 T T S TACTCCAGGAGCCCACATATTCCCTTCAGAAAAACCCCTTAAGCCCCTCTAACACAT
CCCCACTATGACAGTTTTGCCACTGTGTAGCACTGTTTAGATACTCCAGGAGCCCACATA[ct]TCCCTTCAGAAAAACC
55630 IS [ct] CCTTAAGCCCCTCTAACACATCCACACAACAAAAATTACTTCCT
55631 I A CCAAGGAAGGCTATAAACCAACTATGACAATAATGGAGCATTTCCT
55631 P A A CGCGCCGAGGAAGAAGGAATTCACAAAGAGAY
55631 P C A ATGACGTGGCAGACCAGAAGGAATTCACAAAGAGAY
55631 T A A ATGGTCTCTTTGTGAATTCCTTCTTGGAAATGCTCCATTATTGTCATAGTTGGTTTATAGCCTTCCTTGGTG
55631 T C A ATGGTCTCTTTGTGAATTCCTTCTGGGAAATGCTCCATTATTGTCATAGTTGGTTTATAGCCTTCCTTGGTG
TTTCTCTTTTTAACACCAAGGAAGGCTATAAACCAACTATGACAATAATGGAGCATTTCC[ac]AGAAGGAATTCACAAAG
55631 IS [ac] AGACCATTAGATCACATTTTCATTTGCAAAAAGATAGGCTTTA
55648 I A TCAGCTGTAAAAAATTTGATTCTCGTTGAACAGAAAAATTGTTCTTTTT
55648 P A A CGCGCCGAGGATCAATGTATATGTTGTTTCAAGTTY
55648 P C A ATGACGTGGCAGACCTCAATGTATATGTTGTTTCAAGTY
55648 T A A AAAAAACTTGAAACAACATATACATTGATAAAAGAACAATTTTTCTGTTCAACGAGAATCAAATTTTTTACAGCTGATC
55648 T C A AAAAAACTTGAAACAACATATACATTGAGAAAAGAACAATTTTTCTGTTCAACGAGAATCAAATTTTTTACAGCTGATC
55648 IS [ac] atatacatcgatcagctgtaaaaaattgattctcgttgaacagaaaaattgttctttt[ac]tcaatgtatatgttgtttcaagttttttttctctttagtgttattataatcaacttttatg
55650 I S TGAGACATCTGTGTGGATTTGCCAGGCT
55650 P C S ATGACGTGGCAGACGTCAGATGGAACTGTTGCY
55650 P T S CGCGCCGAGGATCAGATGGAACTGTTGCY
55650 T C S GAAAGCAACAGTTCCATCTGACGCCTGGCAAATCCACACAGATGTCTCATA
55650 T T S GAAAGCAACAGTTCCATCTGATGCCTGGCAAATCCACACAGATGTCTCATA
ACTTGCAAAAAAAGTGACTGGAAAATAGCATTTCATTCTGAAAGCAACAGTTCCATCTGA[ct]GCCTGGCAAATCCACAC
55650 IS [ct] AGATGTCTCATAAGTACAACATCTTAAAAAATAAACTTGTTTT
55652 I S AGCCAGCATCTTGCAAATTATCCTACTGTTCTCATCCTACAT
55652 P C S ATGACGTGGCAGACGATGGATCCTGGGTTTCY
55652 P T S CGCGCCGAGGAATGGATCCTGGGTTTCAY
55652 T C S TCCTTGAAACCCAGGATCCATCTGTAGGATGAGAACAGTAGGATAATTTGCAAGATGCTGGCTAG
55652 T T S TCCTTGAAACCCAGGATCCATTTGTAGGATGAGAACAGTAGGATAATTTGCAAGATGCTGGCTAG
TAATTGTTTAATTTGTGAAATTAGTAATACTGTCAGTTCTCCTTGAAACCCAGGATCCAT[ct]TGTAGGATGAGAACAGTA
55652 IS [ct] GGATAATTTGCAAGATGCTGGCTAGCATTTATCAGCATAGAA
55653 I S GCTGAGCTATTCTCAGGTCAGATATAAATACTTCCTCACATTTTA
55653 P A S CGCGCCGAGGTTCTACACTTCTAATACCTTGTAAAY
55653 P G S ATGACGTGGCAGACCTCTACACTTCTAATACCTTGTAAY
55653 T A S AGTTTTTACAAGGTATTAGAAGTGTAGAAAAAATGTGAGGAAGTATTTATATCTGACCTGAGAATAGCTCAGCTA
55653 T G S AGTTTTTACAAGGTATTAGAAGTGTAGAGAAAAATGTGAGGAAGTATTTATATCTGACCTGAGAATAGCTCAGCTA
GTATATTTTCATTAAGAGATGTAAAAGGAGAAAGTTTTTACAAGGTATTAGAAGTGTAGA[ag]AAAATGTGAGGAAGTAT
55653 IS [ag] TTATATCTGACCTGAGAATAGCTCAGCTACTTAATGAGGAAAA
55654 I A CAAAGGCAAATGGTGATCATACTTTGCATAGAATAAATCAGGTAGCTACATT
55654 P A A CGCGCCGAGGAATTGACCATTTCAGAGCAY
55654 P G A ATGACGTGGCAGACGATTGACCATTTCAGAGCAY

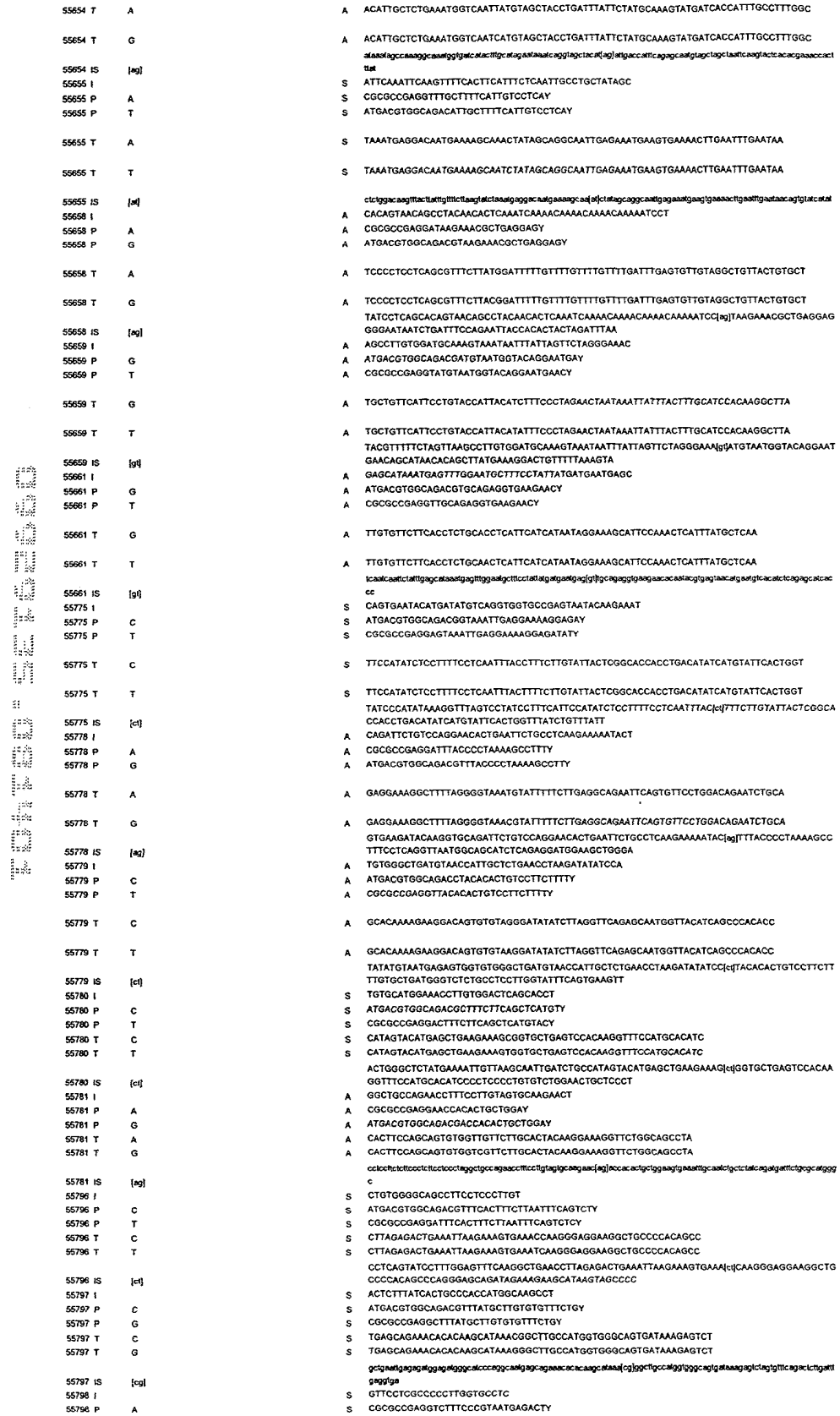

55654 T A A ACATTGCTCTGAAATGGTCAATTATGTAGCTACCTGATTTATTCTATGCAAAGTATGATCACCATTTGCCTTTGGC
55654 T G A ACATTGCTCTGAAATGGTCAATCATGTAGCTACCTGATTTATTCTATGCAAAGTATGATCACCATTTGCCTTTGGC
55654 IS [ag] atagatagccaaaggcaaatggtgatcatactttgcatagaatagaatcaggtagctactat[ag]atgaccatttcagagcaatgtagctagctaattcaagtactcacagcgaaaccact ttat
55655 I S ATTCAAATTCAAGTTTTCACTTCATTTCTCAATTGCCTGCTATAGC
55655 P A S CGCGCCGAGGTTTGCTTTTCATTGTCCTCAY
55655 P T S ATGACGTGGCAGACATTGCTTTTCATTGTCCTCAY
55655 T A S TAAATGAGGACAATGAAAAGCAAACTATAGCAGGCAATTGAGAAATGAAGTGAAAACTTGAATTTGAATAA
55655 T T S TAAATGAGGACAATGAAAAGCAATCTATAGCAGGCAATTGAGAAATGAAGTGAAAACTTGAATTTGAATAA
55655 IS [at] ctctggacaagtttactaattgtttctaagtatctaaatgaggcaatgaaaagcaa[at]ctatagcaggcaattgagaaatgaagtgaaaactgaatttgaataacagtgtatcatat
55658 I A CACAGTAACAGCCTACAACACTCAAATCAAAACAAAACAAAACAAAAATCCT
55658 P A A CGCGCCGAGGATAAGAAACGCTGAGGAGY
55658 P G A ATGACGTGGCAGACGTAAGAAACGCTGAGGAGY
55658 T A A TCCCCTCCTCAGCGTTTCTTATGGATTTTTGTTTTGTTTTGTTTTGATTTGAGTGTTGTAGGCTGTTACTGTGCT
55658 T G A TCCCCTCCTCAGCGTTTCTTACGGATTTTTGTTTTGTTTTGTTTTGATTTGAGTGTTGTAGGCTGTTACTGTGCT
55658 IS [ag] TATCCTCAGCACAGTAACAGCCTACAACACTCAAATCAAAACAAAACAAAACAAAAATCC[ag]TAAGAAACGCTGAGGAG GGGAATAATCTGATTTCCAGAATTACCACACTACTAGATTTAA
55659 I A AGCCTTGTGGATGCAAAGTAAATAATTTATTAGTTCTAGGGAAAC
55659 P G A ATGACGTGGCAGACGATGTAATGGTACAGGAATGAY
55659 P T A CGCGCCGAGGTATGTAATGGTACAGGAATGAACY
55659 T G A TGCTGTTCATTCCTGTACCATTACATCTTTCCCTAGAACTAATAAATTATTTACTTTGCATCCACAAGGCTTA
55659 T T A TGCTGTTCATTCCTGTACCATTACATATTTCCCTAGAACTAATAAATTATTTACTTTGCATCCACAAGGCTTA
55659 IS [gt] TACGTTTTTCTAGTTAAGCCTTGTGGATGCAAAGTAAATAATTTATTAGTTCTAGGGAAA[gt]ATGTAATGGTACAGGAAT GAACAGCATAACACAGCTTATGAAAGGACTGTTTTTAAAGTA
55661 I A GAGCATAAATGAGTTTGGAATGCTTTCCTATTATGATGAATGAGC
55661 P G A ATGACGTGGCAGACGTGCAGAGGTGAAGAACY
55661 P T A CGCGCCGAGGTTGCAGAGGTGAAGAACY
55661 T G A TTGTGTTCTTCACCTCTGCACCTCATTCATCATAATAGGAAAGCATTCCAAACTCATTTATGCTCAA
55661 T T A TTGTGTTCTTCACCTCTGCAACTCATTCATCATAATAGGAAAGCATTCCAAACTCATTTATGCTCAA
55661 IS [gt] tcaatcaattctattggagcataaatgagtttggaatgcttcctattatgatgaatgag[gt]tgcagaggtgaagaacacaatacgtgagtaacatgaatgtcacatctcagagcatcac cc
55775 I S CAGTGAATACATGATATGTCAGGTGGTGCCGAGTAATACAAGAAAT
55775 P C S ATGACGTGGCAGACGGTAAATTGAGGAAAAGGAGAY
55775 P T S CGCGCCGAGGAGTAAATTGAGGAAAAGGAGATATY
55775 T C S TTCCATATCTCCTTTTCCTCAATTTACCTTTCTTGTATTACTCGGCACCACCTGACATATCATGTATTCACTGGT
55775 T T S TTCCATATCTCCTTTTCCTCAATTTACTTTTCTTGTATTACTCGGCACCACCTGACATATCATGTATTCACTGGT
55775 IS [ct] TATCCCATATAAAGGTTTAGTCCTATCCTTTCATTCCATATCTCCTTTTCCTCAATTTACTCTTTCTTGTATTACTCGGCA CCACCTGACATATCATGTATTCACTGGTTTATCTGTTTATT
55778 I A CAGATTCTGTCCAGGAACACTGAATTCTGCCTCAAGAAAAATACT
55778 P A A CGCGCCGAGGATTTACCCCTAAAAGCCTTTY
55778 P G A ATGACGTGGCAGACGTTTACCCCTAAAAGCCTTY
55778 T A A GAGGAAAGGCTTTTAGGGGTAAATGTATTTTTTCTTGAGGCAGAATTCAGTGTTCCTGGACAGAATCTGCA
55778 T G A GAGGAAAGGCTTTTAGGGGTAAACGTATTTTTTCTTGAGGCAGAATTCAGTGTTCCTGGACAGAATCTGCA
55778 IS [ag] GTGAAGATACAAGGTGCAGATTCTGTCCAGGAACACTGAATTCTGCCTCAAGAAAAATAC[ag]TTTACCCCTAAAAGCC TTTCCTCAGGTTAATGGCAGCATCTCAGAGGATGGAAGCTGGGA
55779 I A TGTGGGCTGATGTAACCATTGCTCTGAACCTAAGATATATCCA
55779 P C A ATGACGTGGCAGACCTACACACTGTCCTTCTTTTY
55779 P T A CGCGCCGAGGTTACACACTGTCCTTCTTTTY
55779 T C A GCACAAAAGAAGGACAGTGTGTAGGGATATATCTTAGGTTCAGAGCAATGGTTACATCAGCCCACACC
55779 T T A GCACAAAAGAAGGACAGTGTGTAAGGATATATCTTAGGTTCAGAGCAATGGTTACATCAGCCCACACC
55779 IS [ct] TATATGTAATGAGAGTGGTGTGGGCTGATGTAACCATTGCTCTGAACCTAAGATATATCC[ct]TACACACTGTCCTTCTT TTGTGCTGATGGGTCTCTGCCTCCTTGGTATTTCAGTGAAGTT
55780 I S TGTGCATGGAAACCTTGTGGACTCAGCACCT
55780 P C S ATGACGTGGCAGACGCTTTCTTCAGCTCATGTY
55780 P T S CGCGCCGAGGACTTTCTTCAGCTCATGTACY
55780 T C S CATAGTACATGAGCTGAAGAAAGCGGTGCTGAGTCCACAAGGTTTCCATGCACATC
55780 T T S CATAGTACATGAGCTGAAGAAAGTGGTGCTGAGTCCACAAGGTTTCCATGCACATC
55780 IS [ct] ACTGGGCTCTATGAAAATTGTTAAGCAATTGATCTGCCATAGTACATGAGCTGAAGAAAG[ct]GGTGCTGAGTCCACAA GGTTTCCATGCACATCCCCTCCCCTGTGTCTGGAACTGCTCCCT
55781 I A GGCTGCCAGAACCTTTCCTTGTAGTGCAAGAACT
55781 P A A CGCGCCGAGGAACCACACTGCTGGAY
55781 P G A ATGACGTGGCAGACGACCACACTGCTGGAY
55781 T A A CACTTCCAGCAGTGTGGTTGTTCTTGCACTACAAGGAAAGGTTCTGGCAGCCTA
55781 T G A CACTTCCAGCAGTGTGGTCGTTCTTGCACTACAAGGAAAGGTTCTGGCAGCCTA
55781 IS [ag] cctcctctcttccctcttcctcoctaggctgccagaaccttcctgtagtgcaagaac[ag]accacactgctggaagtgaaattgcaatctgctctatcagatgatttctgcgcatggg c
55796 I S CTGTGGGGCAGCCTTCCTCCCTTGT
55796 P C S ATGACGTGGCAGACGTTTCACTTTCTTAATTTCAGTCTY
55796 P T S CGCGCCGAGGATTTCACTTTCTTAATTTCAGTCTCY
55796 T C S CTTAGAGACTGAAATTAAGAAAGTGAAACCAAGGGAGGAAGGCTGCCCCACAGCC
55796 T T S CTTAGAGACTGAAATTAAGAAAGTGAAATCAAGGGAGGAAGGCTGCCCCACAGCC
55796 IS [ct] CCTCAGTATCCTTTGGAGTTTCAAGGCTGAACCTTAGAGACTGAAATTAAGAAAGTGAAA[ct]CAAGGGAGGAAGGCTG CCCCACAGCCCAGGGAGCAGATAGAAAGAAGCATAAGTAGCCCC
55797 I S ACTCTTTATCACTGCCCACCATGGCAAGCCT
55797 P C S ATGACGTGGCAGACGTTTATGCTTGTGTGTTTCTGY
55797 P G S CGCGCCGAGGCTTTATGCTTGTGTGTTTCTGY
55797 T C S TGAGCAGAAACACACAAGCATAAACGGCTTGCCATGGTGGGCAGTGATAAAGAGTCT
55797 T G S TGAGCAGAAACACACAAGCATAAAGGGCTTGCCATGGTGGGCAGTGATAAAGAGTCT
55797 IS [cg] gctgaatgagagatggagatgggcatcccaggcaatgagcagaaacacacaagcataaa[cg]ggcttgccatggtgggcagtgataaagagtctagtgtttcagactcttgattt gaggtga
55798 I S GTTCCTCGCCCCCTTGGTGCCTC
55798 P A S CGCGCCGAGGTCTTTCCCGTAATGAGACTY

FIGURE 129D

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55796 P   C     S   ATGACGTGGCAGACGCTTTCCCGTAATGAGACY
55798 T   A     S   TGGCAGTCTCATTACGGGAAAGAAGGCACCAAGGGGGCGAGGAACAT
55798 T   C     S   TGGCAGTCTCATTACGGGAAAGCAGGCACCAAGGGGGCGAGGAACAT
                      AAGTGCAACCGTGAGTTAAGAGCTTGGTGATCAATAAATGGCAGTCTCATTACGGGAAAG[ac]AGGCACCAAGGGGGC
55798 IS  [ac]         GAGGAACATCTCCTTTAATTTCGGTGCCCAAGAAGCAGAATGCTG
55799 I             A   TCTTGGAAGAGGAATCCTTGGTTCTGGTCCTTGAAGATT
55799 P   A       A   CGCGCCGAGGAGGATAATGGATGAATAGGCY
55799 P   G       A   ATGACGTGGCAGACGGGATAATGGATGAATAGGCY
55799 T   A       A   GTTTGCCTATTCATCCATTATCCTATCTTCAAGGACCAGAACCAAGGATTCCTCTTCCAAGAAG
55799 T   G       A   GTTTGCCTATTCATCCATTATCCCATCTTCAAGGACCAGAACCAAGGATTCCTCTTCCAAGAAG
                      TGAGGGGGGTATAAAAAAAGCTTCTTGGAAGAGGAATCCTTGGTTCTGGTCCTTGAAGAT[agj]GGATAATGGATGAATA
55799 IS  [ag]        GGCAAACTTTTCAGACAAGAAGACTGAAATACATGTGAACCTTT
55817 I             S   GAGCATTGCTTTTATGAAAATCAAACATGGAGCATAATTATAAAATAAAGGAA
55817 P   A       S   CGCGCCGAGGTGGTGATGTATCAATTTTTGGY
55817 P   G       S   ATGACGTGGCAGACCGGTGATGTATCAATTTTTGGY

55817 T   A       S   CAAGCCAAAAATTGATACATCACCATCCTTTATTTTATAATTATGCTCCATGTTTGATTTTCATAAAAGCAATGCTCTT

55817 T   G       S   CAAGCCAAAAATTGATACATCACCGTCCTTTATTTTATAATTATGCTCCATGTTTGATTTTCATAAAAGCAATGCTCTT
                      ATATTACTTTTAAACATGCTTAGAAAAACAAAAGTTCAAGCCAAAAATTGATACATCACC[ag]TCCTTTATTTTATAATTAT
55817 IS  [ag]         GCTCCATGTTTGATTTTCATAAAAGCAATGCTCTTTTAGGA
55819 I             A   TGAAAATCTGCATTGGGGCTGGGGATGGAT
55819 P   A       A   CGCGCCGAGGAATCAGGTTTAACTGTAAAGGGY
55819 P   G       A   ATGACGTGGCAGACGATCAGGTTTAACTGTAAAGGGY
55819 T   A       A   CTCTCCCTTTACAGTTAAACCTGATTTCCATCCCCAGCCCCAATGCAGATTTTCAAA
55819 T   G       A   CTCTCCCTTTACAGTTAAACCTGATCTCCATCCCCAGCCCCAATGCAGATTTTCAAA
                      gcaaatgcaaatgtgggagttatgagagttttgaaaatctgcattgggctgggatggat[ag]atcaggttaactgtaaagggagaggcatacgggttttctgtgggaaatagaagt
55819 IS  [ag]         gttt
55820 I             A   GCAGCTTGTATCTGACATGGGTGACACCCAAT
55820 P   A       A   CGCGCCGAGGACAGGAGATGGGTATATACAAY
55820 P   G       A   ATGACGTGGCAGACGCAGGAGATGGGTATATACAY
55820 T   A       A   AGCTTTGTATATACCCATCTCCTGTTTGGGTGTCACCCATGTCAGATACAAGCTGCAG
55820 T   G       A   AGCTTTGTATATACCCATCTCCTGCTTGGGTGTCACCCATGTCAGATACAAGCTGCAG
                      CAGCTACATAAAGCAGAAAGTTGGCAGCTGCAGCTTGTATCTGACATGGGTGACACCCAA[ag]CAGGAGATGGGTATA
55820 IS  [ag]         TACAAAGCTGGTCACCACTTAACTCTTTTTAACAATAAGTTCTTG
55823 I             S   GAATCTCCACCTGCTTGAATTTCTGAATGACTGTGTGGAT
55823 P   C       S   ATGACGTGGCAGACGCAATGCCTTTCCCTCY
55823 P   T       S   CGCGCCGAGGACAATGCCTTTCCCTCTY
55823 T   C       S   GACCAGAGGGAAAGGCATTGCTCCACACAGTCATTCAGAAATTCAAGCAGGTGGAGATTCTG
55823 T   T       S   GACCAGAGGGAAAGGCATTGTTCCACACAGTCATTCAGAAATTCAAGCAGGTGGAGATTCTG
                      TAGAAGTTTATGTCTTAATTAAAATCCAGTTGGCAATAAAGACCAGAGGGAAAGGCATTG[ct]TCCACACAGTCATTCAG
55823 IS  [ct]         AAATTCAAGCAGGTGGAGATTCTGCCACGCTTAACAGAGGGCT
55824 I             A   GACATTTCTGCCAGAGAAAGAGGCCTCCCTGT
55824 P   A       A   CGCGCCGAGGAAGGTCACCAGGGAGY
55824 P   G       A   ATGACGTGGCAGACGAGGTCACCAGGGAGY
55824 T   A       A   CACCCTCCCTGGTGACCTTCAGGGAGGCCTCTTTCTCTGGCAGAAATGTCTG
55824 T   G       A   CACCCTCCCTGGTGACCTCCAGGGAGGCCTCTTTCTCTGGCAGAAATGTCTG
                      GAGGCTGTGTTAAAAAAGATCCTGCCCCAGACATTTCTGCCAGAGAAAGAGGCCTCCCTG[ag]AGGTCACCAGGGAGG
55824 IS  [ag]         GTGGAAGGTCACTGCCCAAGTCAAGGAAGTGGCCACCAGCAAGAC
55825 I             S   AGAACACAGGATATTCATTTCACAAAGCTGGCGAATGTTCTCT
55825 P   C       S   ATGACGTGGCAGACGTATGCTGCTATTCTCTTCTTY
55825 P   T       S   CGCGCCGAGGATATGCTGCTATTCTCTTCTTCY

55825 T   C       S   AATGGAAGAAGAGAATAGCAGCATACGAGAACATTCGCCAGCTTTGTGAAATGAATATCCTGTGTTCTTT

55825 T   T       S   AATGGAAGAAGAGAATAGCAGCATATGAGAACATTCGCCAGCTTTGTGAAATGAATATCCTGTGTTCTTT
                      CTTTAGTCATGATAACTTGCTGAACTAACTGTTCCAATGGAAGAAGAGAATAGCAGCATA[ct]GAGAACATTCGCCAGCT
55825 IS  [ct]         TTGTGAAATGAATATCCTGTGTTCTTTCTTTCTCAGCATTGTG
55826 I             S   ACTTTCTTTAGACAAGTTGGGAGTAAGGCTGCAGGGT
55826 P   C       S   ATGACGTGGCAGACGCCATCGGTCTATTTGGGY
55826 P   T       S   CGCGCCGAGGACCATCGGTCTATTTGGGY
55826 T   C       S   CTGCCCCAAATAGACCGATGGCCCCTGCAGCCTTACTCCCAACTTGTCTAAAGAAAGTTG
55826 T   T       S   CTGCCCCAAATAGACCGATGGTCCCTGCAGCCTTACTCCCAACTTGTCTAAAGAAAGTTG
                      cactgcctcatttactccaggccctgcacgtcctcactgcccaaatagaccgatgg[ct]ccctgcagccttactcccaacttgtctaaagaaagttgtctactcttaggcatggaca
55826 IS  [ct]         aca
55829 I             A   CACCTGGCACTCTTGCACTGCCCTGC
55829 P   A       A   CGCGCCGAGGATATCACAGGGACCAAAGAY
55829 P   T       A   ATGACGTGGCAGACTTATCACAGGGACCAAAGAY
55829 T   A       A   AGTATCTTTGGTCCCTGTGATATCAGGGCAGTGCAAGAGTGCCAGGTGGG
55829 T   T       A   AGTATCTTTGGTCCCTGTGATAACAGGGCAGTGCAAGAGTGCCAGGTGGG
                      CCTACACACAAAAATTCTAGGCTCTCAGTTCCCCCCACCTGGCACTCTTGCACTGCCCTG[at]TATCACAGGGACCAAA
55829 IS  [at]         GATACTAAGTCAAAGGAGAAAGCCACAAAGACTGGATGAGATGA
55830 I             S   CTGACGTAGATGTTGCATCAACATAATGGCCACTACAGAAAAAT
55830 P   C       S   ATGACGTGGCAGACGAACCAGTGGCTTAAAGAY
55830 P   T       S   CGCGCCGAGGAAACCAGTGGCTTAAAGACY

55830 T   C       S   ATCAGTCTTTAAGCCACTGGTTCTTTTTCTGTAGTGGCCATTATGTTGATGCAACATCTACGTCAGCT

55830 T   T       S   ATCAGTCTTTAAGCCACTGGTTTTTTTTCTGTAGTGGCCATTATGTTGATGCAACATCTACGTCAGCT
                      TGTCTGGATGATCTGTTTATTGTTGAAAGTGCATTTGGATCAGTCTTTAAGCCACTGGTT[ct]TTTTTCTGTAGTGGCCA
55830 IS  [ct]         TTATGTTGATGCAACATCTACGTCAGCTTTCTTCTTTTTCTAT
55832 I             S   GTGATGGCCTTCTTACTGTGTCCTCACAAAGCAAAACT
55832 P   C       S   ATGACGTGGCAGACGCAGAAGGGCACAAGY
55832 P   T       S   CGCGCCGAGGACAGAAGGGCACAAGAY
55832 T   C       S   GTTCTCTTGTGCCCTTCTGCGTTTTGCTTTGTGAGGACACAGTAAGAAGGCCATCACCA
55832 T   T       S   GTTCTCTTGTGCCCTTCTGTGTTTTGCTTTGTGAGGACACAGTAAGAAGGCCATCACCA
                      GGATTAATGCTACTACAAAAAGGGCTTATGGGAATACATTTGTTCTCTTGTGCCCTTCTG[ct]GTTTTGCTTTGTGAGGA
55832 IS  [ct]         CACAGTAAGAAGGCCATCACCAGATCCTGGACTTGATCTTGGA
55835 I             S   GGGTATTCCTTGTCACTTTGATAATCAGAATATCTTTTCGCCCCTT
55835 P   C       S   ATGACGTGGCAGACGTCATGGAACAAAGCCAY
55835 P   T       S   CGCGCCGAGGATCATGGAACAAAGCCATY

55835 T   C       S   CCAGATGGCTTTGTTCCATGACAGGGGCGAAAAGATATTCTGATTATCAAAGTGACAAGGAATACCCTG

55835 T   T       S   CCAGATGGCTTTGTTCCATGATAGGGGCGAAAAGATATTCTGATTATCAAAGTGACAAGGAATACCCTG
                      atgctagagcagacagactaaacaagatgagaaaatacaccagatggcttgttccatgat[ct]agggggcgaaaagatattctgattatcaaagtgacaaggaatacccctgggtgaga
55835 IS  [ct]         gggccac
55839 I             S   CCTGACCTCCCTCCTGCAAAGAGAAGCATTTT
55839 P   C       S   ATGACGTGGCAGACGAGAAAACAAGACCCAAAGTY
```

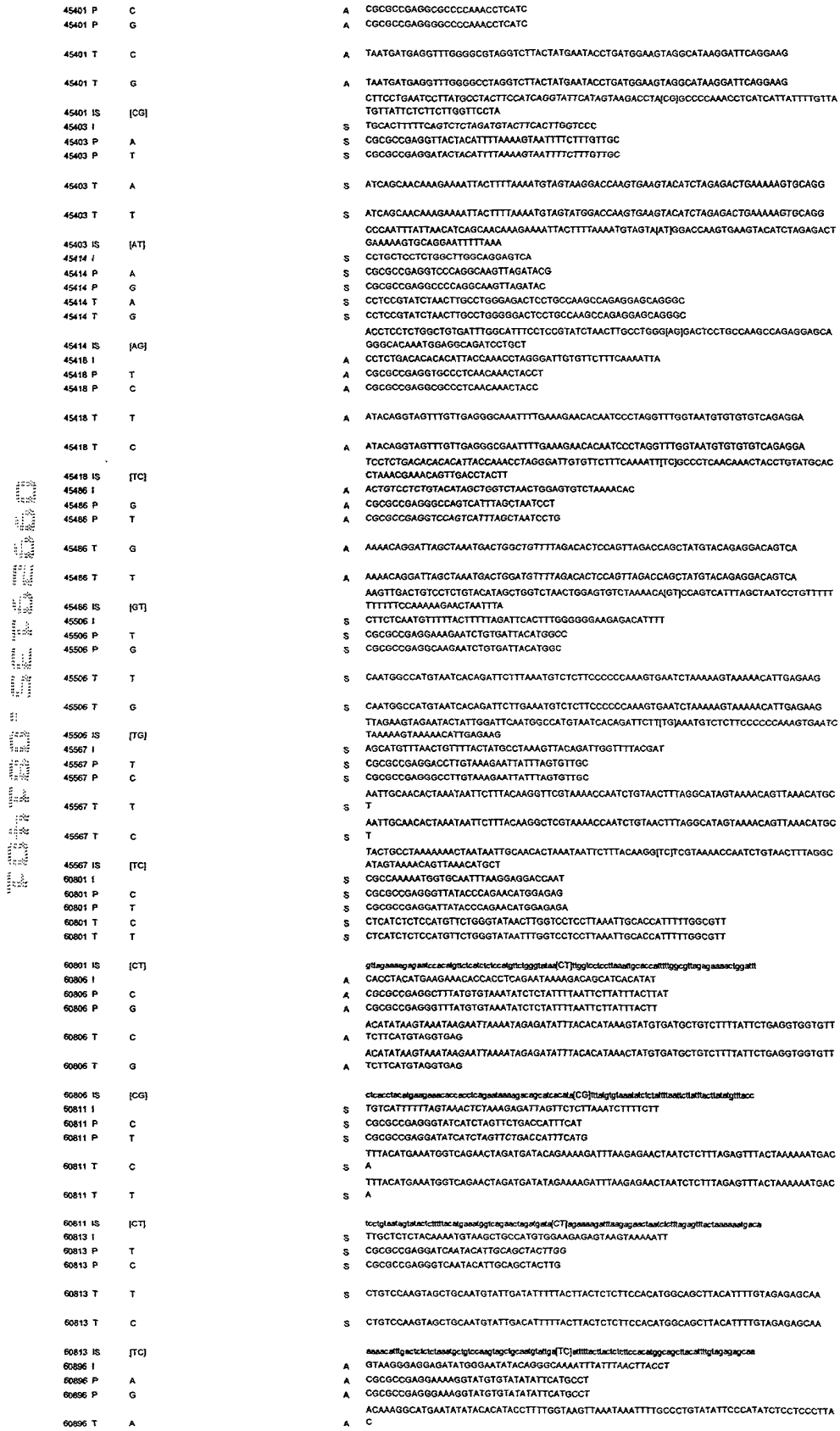
FIGURE 129D


55839 P G
55839 T C
55839 T G
55839 IS [cg]
55840 I
55840 P C
55840 P T
55840 T C
55840 T T
55840 IS [ct]
55843 I
55843 P A
55843 P G
55843 T A
55843 T G
55843 IS [ag]
55844 I
55844 P C
55844 P G
55844 T C
55844 T G
55844 IS [cg]
55848 I
55848 P A
55848 P G
55848 T A
55848 T G
55848 IS [ag]
55891 I
55891 P A
55891 P G
55891 T A
55891 T G
55891 IS [ag]
55892 I
55892 P A
55892 P G
55892 T A
55892 T G
55892 IS [ag]
55894 I
55894 P A
55894 P G
55894 T A
55894 T G
55894 IS [ag]
55910 I
55910 P A
55910 P C
55910 T A
55910 T C
55910 IS [ac]
55933 I
55933 P A
55933 P C
55933 T A
55933 T C
55933 IS [ac]
55935 I
55935 P A
55935 P G
55935 T A
55935 T G
55935 IS [ag]
55942 I
55942 P A
55942 P G
55942 T A
55942 T G
55942 IS [ag]
55952 I
55952 P A
55952 P G
55952 T A
55952 T G
55952 IS [ag]
55953 I
55953 P A
55953 P G
55953 T A
S CGCGCCGAGGCAGAAAACAAGACCCAAAGTY
S GACTACTTTGGGTCTTGTTTTCTCAAATGCTTCTCTTTGCAGGAGGGAGGTCAGGCC
S GACTACTTTGGGTCTTGTTTTCTGAAATGCTTCTCTTTGCAGGAGGGAGGTCAGGCC
GCAGTTGCCACATATATCCATTGAGCACTTAAAATGCGACTACTTTGGGTCTTGTTTTCT[cg]AAATGCTTCTCTTTGCA
GGAGGGAGGTCAGGCCACTGTGTTCCCTTACCTCAGGGACAGA
S GGAAGGATGCCCTGTGAACATCAGGACCAT
S ATGACGTGGCAGACGTGCCTGCAAACCTAGY
S CGCGCCGAGGATGCCTGCAAACCTAGY
S TCTCCTAGGTTTGCAGGCACTGGTCCTGATGTTCACAGGGCATCCTTCCTG
S TCTCCTAGGTTTGCAGGCATTGGTCCTGATGTTCACAGGGCATCCTTCCTG
TCGATCTGAGGGCTGCGAGGGAAGGATCTGTTGTAGACCTCTCTCCTAGGTTTGCAGGCA[ct]TGGTCCTGATGTTCA
CAGGGCATCCTTCCTGTGCCTTCACATCATCTTCTCTCTGAATGT
A CATGATGGAAACCTCCATGACCCAGGAGTCCT
A CGCGCCGAGGAAGGCAGGGCTACTTACY
A ATGACGTGGCAGACGAGGCAGGGCTACTTAY
A AGATGTAAGTAGCCCTGCCTTGGACTCCTGGGTCATGGAGGTTTCCATCATGGT
A AGATGTAAGTAGCCCTGCCTCGGACTCCTGGGTCATGGAGGTTTCCATCATGGT
GACTGTGGCAAGCCAGGTGGCGAGGGGACCATGATGGAAACCTCCATGACCCAGGAGTCC[ag]AGGCAGGGCTACTT
ACATCTCTGCCATTGGCTACCTCCAGGGCTGCAGTGAACTTCTCTC
S CCAGAGGAAAGAAGGTAAGAATGTATACCGATGTAGAGAAATTTGCAGT
S ATGACGTGGCAGACGTCAAGTTGGGAGGTTGY
S CGCGCCGAGGCTCAAGTTGGGAGGTTGY
S GTTTCAACCTCCCAACTTGACCTGCAAATTTCTCTACATCGGTATACATTCTTACCTTCTTTCCTCTGGCA
S GTTTCAACCTCCCAACTTGAGCTGCAAATTTCTCTACATCGGTATACATTCTTACCTTCTTTCCTCTGGCA
CTGATCACCTAAAAAAAAGTAGAGGTCAACTGACATTACTGTTTCAACCTCCCAACTTGA[cg]CTGCAAATTTCTCTACA
TCGGTATACATTCTTACCTTCTTTCCTCTGGCACTGTGGAAAA
A CCAGGGTGAATCCTGACTCTAGCATCCTTTAGGTTT
A CGCGCCGAGGATAATCTATTCTGGAAGCATAAGTY
A ATGACGTGGCAGACGTAATCTATTCTGGAAGCATAAGTY
A AGACACTTATGCTTCCAGAATAGATTATAACCTAAAGGATGCTAGAGTCAGGATTCACCCTGGCT
A AGACACTTATGCTTCCAGAATAGATTACAACCTAAAGGATGCTAGAGTCAGGATTCACCCTGGCT
tgccagaatcctcagagaaagggagccagggtgaatcctgactctagcatccttaggtt[ag]taatctattctggaagcataagtgtctctatagttgagggttatcctttaagtgctttt
A CCACCCAGATTTCAGCAACTTCGCTGCTGAACT
A CGCGCCGAGGACCTCCAAACATAAACCTCY
A ATGACGTGGCAGACGCCTCCAAACATAAACCTY
A TTGGGAGGTTTATGTTTGGAGGTGTTCAGCAGCGAAGTTGCTGAAATCTGGGTGGTT
A TTGGGAGGTTTATGTTTGGAGGCGTTCAGCAGCGAAGTTGCTGAAATCTGGGTGGTT
CCCCTGCCCATTCCTCTGCCCATACAAACCACCCAGATTTCAGCAACTTCGCTGCTGAAC[ag]CCTCCAAACATAAACC
TCCCAAATAACCCAGAGCTGCACCAAGCAGTCCTAGACTTGAGC
A CTGCATGGGAGGGATTTAATTCTGCTTTGTCTTTGGACT
A CGCGCCGAGGATTTTCACCTTTAACCATAAGCY
A ATGACGTGGCAGACGTTTTCACCTTTAACCATAAGCY
A ATCTGCTTATGGTTAAAGGTGAAAATGTCCAAAGACAAAGCAGAATTAAATCCCTCCCATGCAGAA
A ATCTGCTTATGGTTAAAGGTGAAAACGTCCAAAGACAAAGCAGAATTAAATCCCTCCCATGCAGAA
tgccttctcaaattagatgtttctgcatgggagggatttaatctctgcttgtcttggac[ag]tttccaccttaaccataagcagattttgtctagatggaaaaatctcacacacaaaaga
A GCTTTTGTCTTTACAGTGACCGAAGGAAGAGACCAAGATGAATT
A CGCGCCGAGGACAGAGGTGAGTTCTTTACAY
A ATGACGTGGCAGACGCAGAGGTGAGTTCTTTACY
A TCTTTGTAAAGAACTCACCTCTGTATTCATCTTGGTCTCTTCCTTCGGTCACTGTAAAGACAAAAGCAG
A TCTTTGTAAAGAACTCACCTCTGCATTCATCTTGGTCTCTTCCTTCGGTCACTGTAAAGACAAAAGCAG
CAGGGACCTGAACCTCTGCTTTTGTCTTTACAGTGACCGAAGGAAGAGACCAAGATGAAT[ag]CAGAGGTGAGTTCTTT
ACAAAGACCAGTTTAAGGGATGCTTTTCTTATTGTGTCCCTCAT
A CTGCCCAAAACCCTTGTCCTGGGTGTGT
A CGCGCCGAGGAACCTCACAGTAACATGGY
A ATGACGTGGCAGACCACCTCACAGTAACATGGY
A AGCCCCATGTTACTGTGAGGTTCACACCCAGGACAAGGGTTTTGGGCAGCC
A AGCCCCATGTTACTGTGAGGTGCACACCCAGGACAAGGGTTTTGGGCAGCC
agagttaatgtagatgacatgggctgtctaggctgcccaaaaccctttgtcctgggtgtg[ac]acccacagtaacatggggctcggtgccacaccaggctacagaataaagcatg
aagtgct
S GCGTTACGCTTCTCTGCCTAGCTGCCCC
S CGCGCCGAGGTGTCAATGGGAACAGCY
S ATGACGTGGCAGACGGTCAATGGGAACAGCY
S GGAGGCTGTTCCCATTGACAGGGCAGCTAGGCAGAGAAGCGTAACGCAG
S GGAGGCTGTTCCCATTGACCGGGCAGCTAGGCAGAGAAGCGTAACGCAG
GACCAAGCCACTCCAATAATTATCATGTTACCAAGACAATAGGAGGCTGTTCCCATTGAC[ac]GGGCAGCTAGGCAGA
GAAGCGTAACGCAGGCAACTCTTCATTTTGGTTTTCAGTAGCCAC
S TCGTCAGCCCTTGCTTTGCACTCTCCAA
S CGCGCCGAGGTCCCTCTTACCTCATGCY
S ATGACGTGGCAGACCCCCTCTTACCTCATGCY
S CTCTGCATGAGGTAAGAGGGATGGAGAGTGCAAAGCAAGGGCTGACGACT
S CTCTGCATGAGGTAAGAGGGGTGGAGAGTGCAAAGCAAGGGCTGACGACT
ATGTAGTGGAACTTTGTCCTCCAGCGGACCTCTTTCCTGCCTCTGCATGAGGTAAGAGGG[ag]TGGAGAGTGCAAAGC
AAGGGCTGACGACTTTAGCTTGGGAAATTTAGATACCTGTAAAAT
A GCAGCTGCTCTGCTCTAGACCCTGCTCT
A CGCGCCGAGGATCTCCACATCCTAAATGTTCY
A ATGACGTGGCAGACGTCTCCACATCCTAAATGTTY
A AAGTGAACATTTAGGATGTGGAGATGAGCAGGGTCTAGAGCAGAGCAGCTGCCA
A AAGTGAACATTTAGGATGTGGAGACGAGCAGGGTCTAGAGCAGAGCAGCTGCCA
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A TCTCTTTAGGGCTAAAGAAATTGGTTCTACATTGCTTTTAGACT
A CGCGCCGAGGAATACTGACTCGTTAAATGCAY
A ATGACGTGGCAGACGATACTGACTCGTTAAATGCAY
A AAATTGCATTTAACGAGTCAGTATTGTCTAAAAGCAATGTAGAACCAATTTCTTTAGCCCTAAAGAGAAA
A AAATTGCATTTAACGAGTCAGTATCGTCTAAAAGCAATGTAGAACCAATTTCTTTAGCCCTAAAGAGAAA
TAAAGTTTTATTTTTTTTCTCTTTAGGGCTAAAGAAATTGGTTCTACATTGCTTTTAGAC[ag]ATACTGACTCGTTAAATG
CAATTTCAACGAATGCTAAATTGCTTAATTAGATAATAATAT
S AGGAAGGGACCCCTAGAATGATGGGGA
S CGCGCCGAGGTCTGAATTTTGCCCAAAAGY
S ATGACGTGGCAGACCCTGAATTTTGCCCAAAAGY
S TCAGCTTTTGGGCAAAATTCAGACCCCATCATTCTAGGGGTCCCTTCCTAA

FIGURE 129D


55953 T G S TCAGCTTTTGGGCAAAATTCAGGCCCCATCATTCTAGGGGTCCCTTCCTAA
55953 IS [ag] taaatggtgacatttcagagaggggagtcccgtttttgtfcagctttgggcaaaattcag[ag]ccccatcatttctaggggtcccttcctaaatttttcattaatagtacagcatgccttatatata
55960 I A AGTTGGTGGGGCATCACAGTGAGCTTAGCT
55960 P A A CGCGCCGAGGATGGACTGAAAATTTTGGGGY
55960 P G A ATGACGTGGCAGACGTGGACTGAAAATTTTGGGY
55960 T A A GCCACCCCAAAATTTTCAGTCCATGCTAAGCTCACTGTGATGCCCCACCAACTTC
55960 T G A GCCACCCCAAAATTTTCAGTCCACGCTAAGCTCACTGTGATGCCCCACCAACTTC
55960 IS [ag] ACGTGCATTTTGGGAAGTATCGTTTATGAGAAGTTGGTGGGGCATCACAGTGAGCTTAGC[ag]TGGACTGAAAATTTTG GGGTGGCTGTTGTATACCCTTTTGCTACTTCAAGCAAGACACTT
55966 I A TGTAGAATCCTGGCATGTGGCTAATGCTAAGAAAGACAAGAA
55966 P C A ATGACGTGGCAGACCTGGAGACGCGCTY
55966 P T A CGCGCCGAGGTTGGAGACGCGCTY
55966 T C A CAACAGCGCGTCTCCAGTCTTGTCTTTCTTAGCATTAGCCACATGCCAGGATTCTACAAA
55966 T T A CAACAGCGCGTCTCCAATCTTGTCTTTCTTAGCATTAGCCACATGCCAGGATTCTACAAA
55966 IS [ct] AGACGGGTAGAGAAGGCTTTGTAGAATCCTGGCATGTGGCTAATGCTAAGAAAGACAAGA[ct]TGGAGACGCGCTGTT GCTTTCATTGCTTTACCACATTCCCAAGGACGGGTGAAGGCCTCA
56000 I S GAGAGGCAGTTGGGGGCACCTTA
56000 P A S CGCGCCGAGGTAGCTTCTATAAAATTCTATCAAGGY
56000 P G S ATGACGTGGCAGACCAGCTTCTATAAAATTCTATCAAGGY
56000 T A S AAAGCCTTGATAGAATTTTATAGAAGCTAAAGGTGCCCCCAACTGCCTCTCTA
56000 T G S AAAGCCTTGATAGAATTTTATAGAAGCTGAAGGTGCCCCCAACTGCCTCTCTA
56000 IS [ag] TGAAAAAAAAAGAAATTGATGGAGTACCCAGCAAAGCCTTGATAGAATTTTATAGAAGCT[ag]AAGGTGCCCCCAACTG CCTCTCTATAAACTTTCCAGGATGTGAAGATTCCAGGGTACCTA
56008 I S CTTTCCTTTTCCCCTGCAAATGAGGCCTGCT
56008 P C S ATGACGTGGCAGACGGAGAAAAGCACCAGAAAY
56008 P T S CGCGCCGAGGAGAGAAAAGCACCAGAAATAAY
56008 T C S GCCATTATTTCTGGTGCTTTTCTCCGCAGGCCTCATTTGCAGGGGAAAAGGAAAGAA
56008 T T S GCCATTATTTCTGGTGCTTTTCTCTGCAGGCCTCATTTGCAGGGGAAAAGGAAAGAA
56008 IS [ct] TCCATTATTCAGGAGTTGAGTGTCCCTTCTTGTTATGCCATTATTTCTGGTGCTTTTCTC[ct]GCAGGCCTCATTTGCAG GGGAAAAGGAAAGAAAGACAACTAGAAAAGAAAGGGAGGAAAT
56032 I A GGCTTTGTTAGGGAAAGCTTATTTTAGCATTGTTCTTACTT
56032 P C A CGCGCCGAGGCCTAGATATTTGATCTTATTTCAAGATTY
56032 P G A ATGACGTGGCAGACGCTAGATATTTGATCTTATTTCAAGATY
56032 T C A AAAAAATCTTGAAATAAGATCAAATATCTAGGAGTAAGAACAATGCTAAAATAAGCTTTCCCTAACAAAGCCTA
56032 T G A AAAAAATCTTGAAATAAGATCAAATATCTAGCAGTAAGAACAATGCTAAAATAAGCTTTCCCTAACAAAGCCTA
56032 IS [cg] GCTGTTGAGACTTAGTTTTAGGCTTTGTTAGGGAAAGCTTATTTTAGCATTGTTCTTACT[cg]CTAGATATTTGATCTTAT TTCAAGATTTTTTTTCTGAGTTTGCACATAAATGCCCAGTGT
56040 I S AGTGGGAGCCTATTGGAATATTTTCATTTATTGGAGTTTGGAAGGAGA
56040 P A S CGCGCCGAGGTAGTAGAGGACACAGGATATAGY
56040 P G S ATGACGTGGCAGACCAGTAGAGGACACAGGATATY
56040 T A S AAAGCTATATCCTGTGTCCTCTACTACTCCTTCCAAACTCCAATAAATGAAAATATTCCAATAGGCTCCCACTGA
56040 T G S AAAGCTATATCCTGTGTCCTCTACTGCTCCTTCCAAACTCCAATAAATGAAAATATTCCAATAGGCTCCCACTGA
56040 IS [ag] aaaatatatcaagcaatgatgctaccgaaaaagtcaaagctatcctgtgtcctctact[ag]ctccttccaaactccaataaatgaaaatattccaatagggctcccactgaatatataat sta
56048 I S GAAAGAGAAAAGCATTGATATTACTACTAGGTTCAAAGTTTTTGTTTTTGTTTTTC
56048 P A S CGCGCCGAGGTTTTTCCCCCTGTATTTCTCY
56048 P C S ATGACGTGGCAGACGTTTTCCCCCTGTATTTCTY
56048 T A S GCTAGAGAAATACAGGGGGAAAAAAAAAAACAAAAACAAAAACTTTGAACCTAGTAGTAATATCAATGCTTTTCTCTTTCA G
56048 T C S GCTAGAGAAATACAGGGGGAAAACAAAAACAAAAACAAAAACTTTGAACCTAGTAGTAATATCAATGCTTTTCTCTTTCA G
56048 IS [ac] GGATGCCTGACAAAGAAGCAAGGACTTTACAGATTGAGCTAGAGAAATACAGGGGGAAAA[ac]AAAAACAAAAACAAAA ACTTTGAACCTAGTAGTAATATCAATGCTTTTCTCTTTCAGAAG
56050 I A GTCATGGTAAGGCAAAGGTCTTTCCATTTCTAACACT
56050 P A A CGCGCCGAGGAGGTGTAATTTTAAGGTCGTATCAY
56050 P G A ATGACGTGGCAGACGGTGTAATTTTAAGGTCGTATCY
56050 T A A AGAGTGATACGACCTTAAAATTACACTGTGTTAGAAATGGAAAGACCTTTGCCTTACCATGACTA
56050 T G A AGAGTGATACGACCTTAAAATTACACCGTGTTAGAAATGGAAAGACCTTTGCCTTACCATGACTA
56050 IS [ag] ttaaaaatttatagacttatgtagtcatggtaaggcaaaggtctttccatttctaacac[ag]gtgtaatttaaggtcgtatcactctgaacatctacatttacatctgctttatctttg
56124 I S CATCCCTTTGTCTCATTTACTCCTCACAATGCCT
56124 P C S ATGACGTGGCAGACGTATGAGGTGGGTCCCY
56124 P T S CGCGCCGAGGATATGAGGTGGGTCCCY
56124 T C S TAATGGGACCCACCTCATACGGCATTGTGAGGAGTAAATGAGACAAAGGGATGTA
56124 T T S TAATGGGACCCACCTCATATGGCATTGTGAGGAGTAAATGAGACAAAGGGATGTA
56124 IS [ct] TCTAAGCCCTAAGATTCCTGACTGTTAAATGAAGATGACAATAATGGGACCCACCTCATA[ct]GGCATTGTGAGGAGTA AATGAGACAAAGGGATGTACTATATTGTACACAAAATAATTGCT
56126 I A CATGTTCAAAGCAAAGCAGTTATAGCAAAGGTGTTGT
56126 P A A CGCGCCGAGGAAAGCATGGGTTGTACAGY
56126 P G A ATGACGTGGCAGACGAAGCATGGGTTGTACAGY
56126 T A A ACAACTGTACAACCCATGCTTTCAACACCTTTGCTATAACTGCTTTGCTTTGAACATGTG
56126 T G A ACAACTGTACAACCCATGCTTCCAACACCTTTGCTATAACTGCTTTGCTTTGAACATGTG
56126 IS [ag] TATAATTGTCTGCACAATATTCCACATGTTCAAAGCAAAGCAGTTATAGCAAAGGTGTTG[ag]AAGCATGGGTTGTACA GTTGTTACCCTGCCTTAAATTATACCTTTACCACTTAGTAGTTC
56155 I S AGAGTGAAAGGGCAAGAGATGGTTCCTTTTTCCCTTA
56155 P A S CGCGCCGAGGTCAATCTTTGCTAGTTTGTTTTTY
56155 P G S ATGACGTGGCAGACCCAATCTTTGCTAGTTTGTTTY
56155 T A S AACAAAAAACAAACTAGCAAAGATTGAAAGGGAAAAAGGAACCATCTCTTGCCCTTTCACTCTGA
56155 T G S AACAAAAAACAAACTAGCAAAGATTGGAAGGGAAAAAGGAACCATCTCTTGCCCTTTCACTCTGA
56155 IS [ag] AGTGAAATCTTTATTGCCTTGAGTTGCACCTTTCAACAAAAAACAAACTAGCAAAGATTG[ag]AAGGGAAAAAGGAACCA TCTCTTGCCCTTTCACTCTGAAATACAGTCTTCTATCTAGGAC
56161 I A CCTGAGCACCTAATAGGCAGTCCTCGTGTCAAAAAA
56161 P C A ATGACGTGGCAGACCAGCACACCAGTGGY
56161 P T A CGCGCCGAGGTAGCACACCAGTGGGY
56161 T C A AGAACCCACTGGTGTGCTGTTTTTGACACGAGGACTGCCTATTAGGTGCTCAGGAA
56161 T T A AGAACCCACTGGTGTGCTATTTTTGACACGAGGACTGCCTATTAGGTGCTCAGGAA
56161 IS [ct] tctcatctaagattctattattcctgagcacctaatagccagtcctcgtgtcaaaaa[ct]agcacaccagtgggttctgcataatgatttacctctagagtttccctctcctctcctc
51767 I A CCGCCCTGAAGCCTCCCGCATCT
51767 P A A CGCGCCGAGGACCCTGCTCCTGATG
51767 P G A ATGACGTGGCAGACGCCCTGCTCCTGAT
51767 T A A TGGCCATCAGGAGCAGGGTGATGCGGGAGGCTTCAGGGCGGTC
51767 T G A TGGCCATCAGGAGCAGGGCGATGCGGGAGGCTTCAGGGCGGTC

				CACTGTTCCAAATCTTCAGCAAGATCGACCGCCCTGAAGCCTCCCGCATC[AG]CCCTGCTCCTGATGGCCAGCCAGG	
51767	IS	[AG]		AGCCCCAACGGATGTCCCGGAACTTT	VWF
51769	I		A	GACTACAGGCGCCCCGCCACCT	
51769	P	A	A	CGCGCCGAGGACGCCTGGCTAATTTTT	
51769	P	G	A	ATGACGTGGCAGACGCGCCTGGCTAATTTT	
51769	T	A	A	CACAAAAAATTAGCCAGGCGTGGTGGCGGGGCGCCTGTAGTCCC	
51769	T	G	A	CACAAAAAATTAGCCAGGCGCGGTGGCGGGGCGCCTGTAGTCCC	
				TCCTGCCTCAGCCTCCCGAGTAGCTGGGACTACAGGCGCCCCGCCACC[AG]CGCCTGGCTAATTTTTTGTGTTTTTA	
51769	IS	[AG]		GTAGAGACGGGGTTTCACTATGTTAGCCAGGATG	MULTIPLE SHORT GENE NAMES
51770	I		A	AGTGCTGGGATTACAGGCGTGAACCACCT	
51770	P	A	A	CGCGCCGAGGATGCCCGGCCC	
51770	P	G	A	ATGACGTGGCAGACGTGCCCGGCCC	
51770	T	A	A	TGGGGGGCCGGGCATGGTGGTTCACGCCTGTAATCCCAGCACTTT	
51770	T	G	A	TGGGGGGCCGGGCACGGTGGTTCACGCCTGTAATCCCAGCACTTT	
				GACCTCGTGATCCGCCCACCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAACCACC[AG]TGCCCGGCCCCCC	
51770	IS	[AG]		AATGGCCTTTTCTACTGTCTCATGCTGATTCTGCCTCTGGTGCCATT	
51776	I		A	CACAGCAACCTCTACCTCCTGGGTTCAAGCT	
51776	P	A	A	CGCGCCGAGGAATTCTTCTGCCTCAGC	
51776	P	G	A	ATGACGTGGCAGACGATTCTTCTGCCTCAGC	
51776	T	A	A	GGAGGCTGAGGCAGAAGAATTGCTTGAACCCAGGAGGTAGAGGTTGCTGTGAG	
51776	T	G	A	GGAGGCTGAGGCAGAAGAATCGCTTGAACCCAGGAGGTAGAGGTTGCTGTGAG	
				GCAGTGGCACAATCTCAGCTCACAGCAACCTCTACCTCCTGGGTTCAAGC[AG]ATTCTTCTGCCTCAGCCTCCTCCTC	
51776	IS	[AG]		CTGAGTAGCTGGAACTACAGGCATG	
51787	I		S	CCGGCCTGGTACACTGCCAGGCT	
51787	P	C	S	ATGACGTGGCAGACGCTTCTGCAGGTCATC	
51787	P	T	S	CGCGCCGAGGACTTCTGCAGGTCATCGV	
51787	T	C	S	ATGCCGATGACCTGCAGAAGCGCCTGGCAGTGTACCAGGCCGGGG	
51787	T	T	S	ATGCCGATGACCTGCAGAAGTGCCTGGCAGTGTACCAGGCCGGGG	
				GCCTCCCACCTGCGCAAGCTGCGTAAGCGGCTCCTCCGCGATGCCGATGACCTGCAGAAG[CT]GCCTGGCAGTGTA	
51787	IS	[CT]		CCAGGCCGGGGCCGCGAGGGCGCCGAGCGCGGCCTCAGCGCCATCC	APOE
51789	I		S	GGTGGGAGGCGAGGCGCACCA	
51789	P	A	S	CGCGCCGAGGTGCAGCTCCTCGGV	
51789	P	G	S	ATGACGTGGCAGACCGCAGCTCCTCGGV	
51789	T	A	S	AGCACCGAGGAGCTGCAGGTGCGCCTCGCCTCCCACCTG	
51789	T	G	S	AGCACCGAGGAGCTGCGGGTGCGCCTCGCCTCCCACCTG	
				GCCTGGTGCAGTACCGCGGCGAGGTGCAGGCCATGCTCGGCCAGAGCACCGAGGAGCTGC[AG]GGTGCGCCTCGC	
51789	IS	[AG]		CTCCCACCTGCGCAAGCTGCGTAAGCGGCTCCTCCGCGATGCCGATGA	APOE
7109	I		S	GCTGCTGGGGTAAAAGAAGGACAATTACTGACCCACAATGA	
7109	P	A	S	CGCGCCGAGGTTTTGGTTTGGGGTTTACTTGV	
7109	P	G	S	CGCGCCGAGGCTTTGGTTTGGGGTTTACTTGV	
7109	T	A	S	AACCCAAGTAAACCCCAAACCAAAACATTGTGGGTCAGTAATTGTCCTTCTTTTACCCCAGCAGCTT	
7109	T	G	S	AACCCAAGTAAACCCCAAACCAAAGCATTGTGGGTCAGTAATTGTCCTTCTTTTACCCCAGCAGCTT	
				ATGATATTTGTATTCCATGGAGATAGAACCCAAGTAAACCCCAAACCAAA[AG]CATTGTGGGTCAGTAATTGTCCTTCT	
7109	IS	[AG]		TTTACCCCAGCAGCTTGGAGTTGG	
23390	I		S	CAGAGGAAAAAGCAGCCAGCCCCACCTT	
23390	P	C	S	CGCGCCGAGGGCAGGAGCCTAGAAAGTAGT	
23390	P	T	S	CGCGCCGAGGACAGGAGCCTAGAAAGTAGTAG	
23390	T	C	S	AATGCTACTACTTTCTAGGCTCCTGCAGGTGGGGCTGGCTGCTTTTTCCTCTGTA	
23390	T	T	S	AATGCTACTACTTTCTAGGCTCCTGTAGGTGGGGCTGGCTGCTTTTTCCTCTGTA	
				TTTGCCTCTTCTGAAGCCTGGATCAAATGCTACTACTTTCTAGGCTCCTG[CT]AGGTGGGGCTGGCTGCTTTTTCCTC	
23390	IS	[CT]		TGTACTCCCAGAGCAACTGCATGCC	
45126	I		A	CGTGGGCAGGAGCTGTGATCAATAACCTTTGTACATTTCA	
45126	P	C	A	CGCGCCGAGGCCAAAATCCAAAGGAGAGAATTAGA	
45126	P	T	A	CGCGCCGAGGTCAAAATCCAAAGGAGAGAATTAGAT	
45126	T	C	A	CTTCATCTAATTCTCTCCTTTGGATTTTGGGAAATGTACAAAGGTTATTGATCACAGCTCCTGCCCACGGG	
45126	T	T	A	CTTCATCTAATTCTCTCCTTTGGATTTTGAGAAATGTACAAAGGTTATTGATCACAGCTCCTGCCCACGGG	
45126	IS	[CT]		tgtgaacicccctgtgggcaggagctgtgatcaataaccttgtacatttc[CT]caaaatccaaaggagagaattagatgaaggacagattaagaccttttgtt	
45137	I		S	TTAGTGCTTGTGAATGAACCATACTCTTATTTTATGGACTTGGAAACTTCA	
45137	P	G	S	CGCGCCGAGGCGTCAATGATTTGATAACCCATC	
45137	P	A	S	CGCGCCGAGGTGTCAATGATTTGATAACCCATCC	
45137	T	G	S	TCAAGGATGGGTTATCAAATCATTGACGGAAGTTTCCAAGTCCATAAAATAAGAGTATGGTTCATTCACAAGCACTAA	
45137	T	A	S	TCAAGGATGGGTTATCAAATCATTGACAGAAGTTTCCAAGTCCATAAAATAAGAGTATGGTTCATTCACAAGCACTAA	
45137	IS	[GA]		tattaataatgtgaatcttaatatcaaggatgggttatcaaatcattgac[GA]gaagtttccaagtccataaaataagagtatggttcattcacaagcactaa	
45361	I		S	GTCAAGCTGAAGAGAGACTGTTAGCATAAATTTAGTGACAGCAGGAAAT	
45361	P	T	S	CGCGCCGAGGAAAATTAACCTTATTACTTTATTTAGTATATTACATTATTTTG	
45361	P	C	S	CGCGCCGAGGGAAATTAACCTTATTACTTTATTTAGTATATTACATTATTTTG	
				TACACAAAATAATGTAATATACTAAATAAAGTAATAAGGTTAATTTTTTTCCTGCTGTCACTAAATTTATGCTAACAGTCT	
45361	T	T	S	CTCTTCAGCTTGACAT	
				TACACAAAATAATGTAATATACTAAATAAAGTAATAAGGTTAATTTCTTTCCTGCTGTCACTAAATTTATGCTAACAGTCT	
45361	T	C	S	CTCTTCAGCTTGACAT	
				ATAATACACAAAATAATGTAATATACTAAATAAAGTAATAAGGTTAATTT[TC]TTTCCTGCTGTCACTAAATTTATGCTAA	
45361	IS	[TC]		CAGTCTCTCTTCAGCTTGACAT	
45391	I		A	CCTTACACACTGTAATGTGCTATCACACCTCCTGGAGTAATGTC	
45391	P	T	A	CGCGCCGAGGTTAAGTCAGTCTCTTTTTCTGCTACY	
45391	P	G	A	CGCGCCGAGGGTAAGTCAGTCTCTTTTTCTGCTAY	
45391	T	T	A	ACCCGTAGCAGAAAAAGAGACTGACTTAAACATTACTCCAGGAGGTGTGATAGCACATTACAGTGTGTAAGGAA	
45391	T	G	A	ACCCGTAGCAGAAAAAGAGACTGACTTACACATTACTCCAGGAGGTGTGATAGCACATTACAGTGTGTAAGGAA	
				AGTTATTCCTTACACACTGTAATGTGCTATCACACCTCCTGGAGTAATGT[TG]TAAGTCAGTCTCTTTTTCTGCTACGG	
45391	IS	[TG]		GTTCATGGATAGAATTCCCTTGTT	
45392	I		A	AGTGTAGTGTGTGAAGGGTGAGATATACTATGTGGAGCAGCTACT	
45392	P	A	A	CGCGCCGAGGAAGAAAAGAAGGCCTCTGG	
45392	P	C	A	CGCGCCGAGGCAGAAAAGAAGGCCTCTGG	
45392	T	A	A	TGTCCCAGAGGCCTTCTTTTCTTGTAGCTGCTCCACATAGTATATCTCACCCTTCACACACTACACTTG	
45392	T	C	A	TGTCCCAGAGGCCTTCTTTTCTGGTAGCTGCTCCACATAGTATATCTCACCCTTCACACACTACACTTG	
				ATCACAAGTGTAGTGTGTGAAGGGTGAGATATACTATGTGGAGCAGCTAC[AC]AGAAAAGAAGGCCTCTGGGACATAT	
45392	IS	[AC]		AAAGATATCTCAGGAAACTATGCTT	
45401	I		A	CTTCCTGAATCCTTATGCCTACTTCCATCAGGTATTCATAGTAAGACCTAT	



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FIGURE 129D

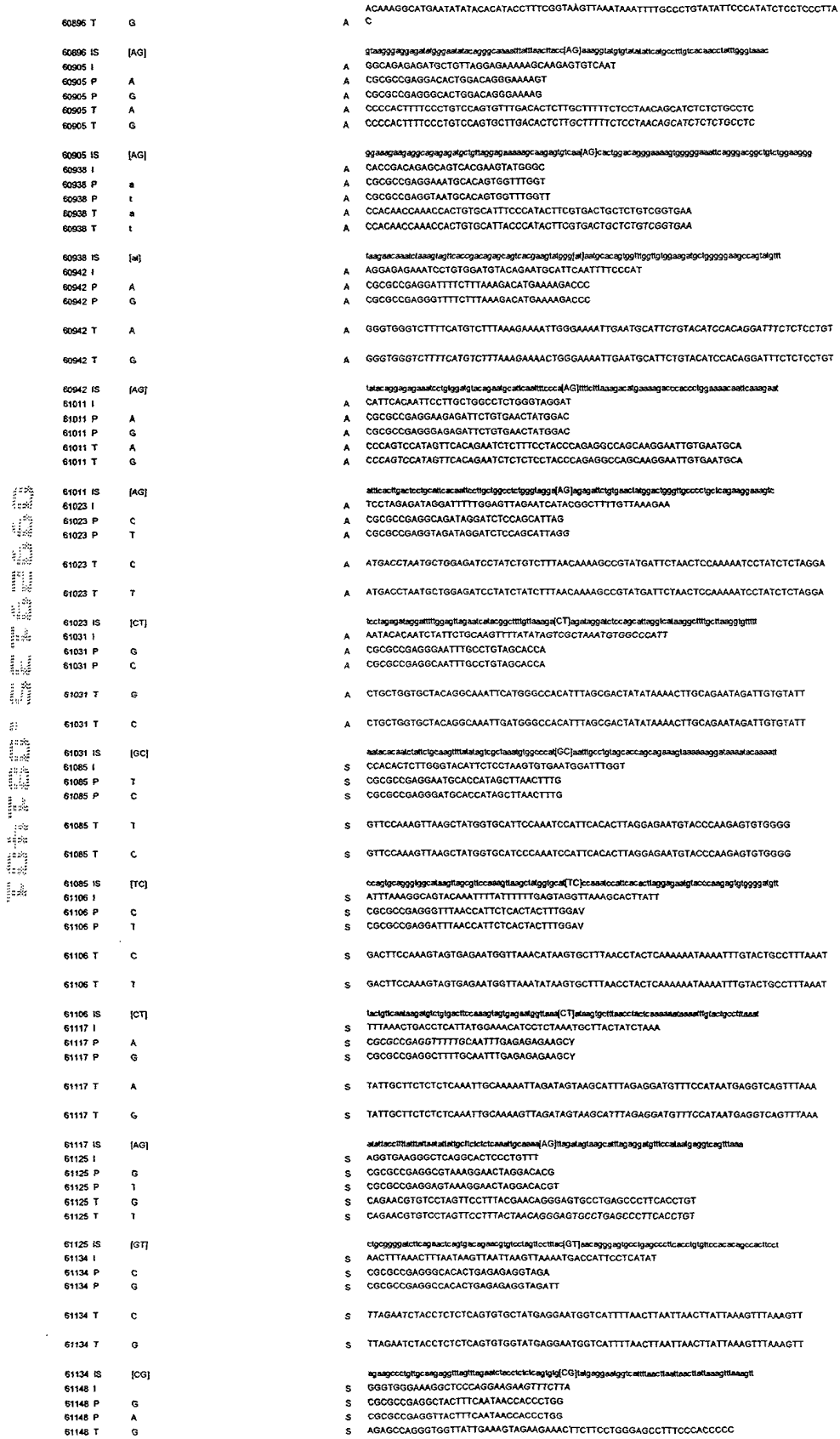
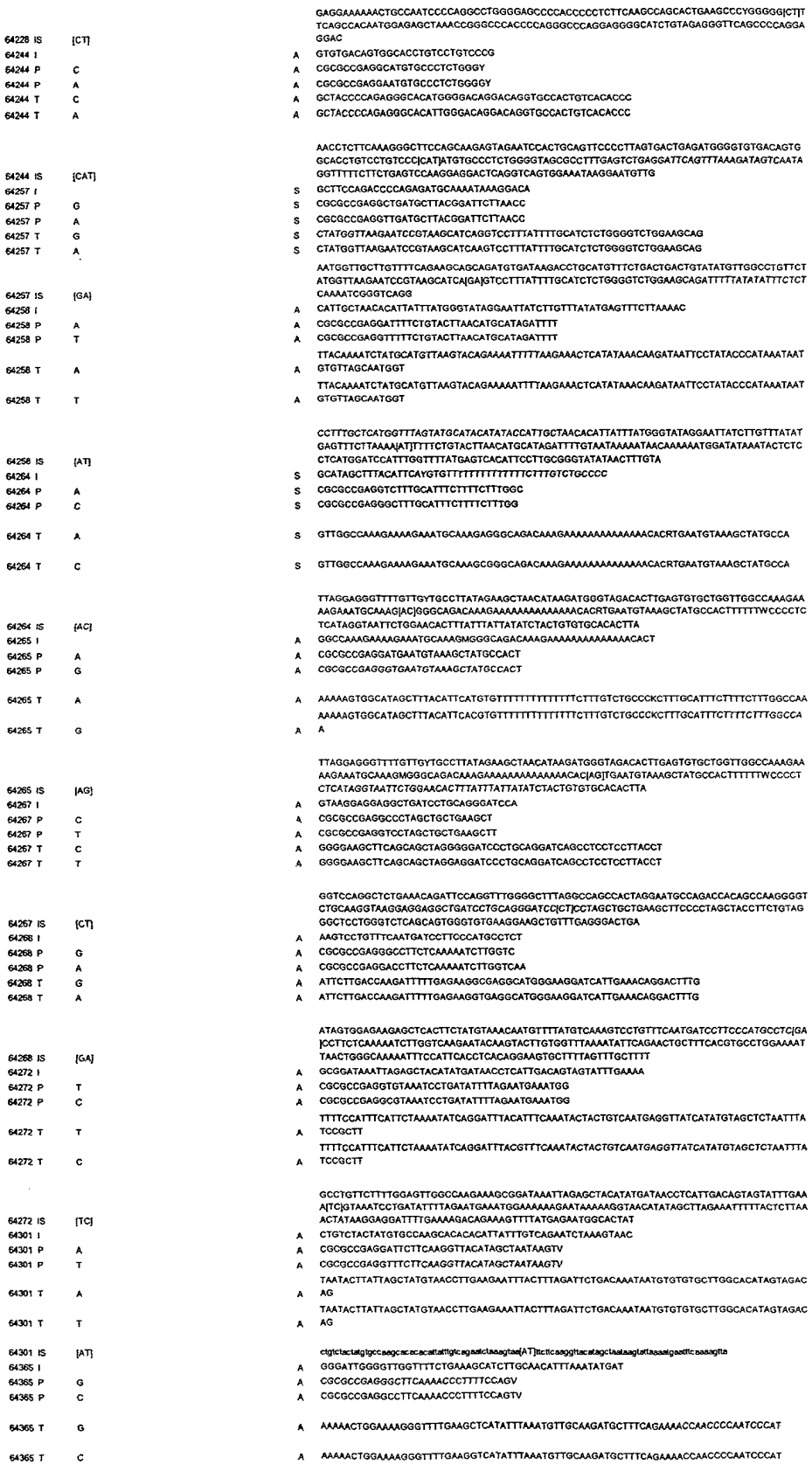


FIGURE 129D

61148 T	A	S	AGAGCCAGGGTGGTTATTGAAAGTAAAAGAAACTTCTTCCTGGGAGCCTTTCCCACCCCC	
			CTTTTGTGTTTTTTTTCAAGCCCTGCTGAATTTGCTAGTCAACTCAACAGGAAGTGAGGCCAYGGAGGGAGGCAGAAG	
			AGCCAGGGTGGTTATTGAAAGTA[GA]AAGAAACTTCTTCCTGGGAGCCTTTCCCACCCCCTTCCCTGCTGAGCACGTG	
61148 IS	[GA]		GAGTTAGGCAGGTTAGGGGACTCGGAGACTGCGATGGTGCCAGGAAAGGG	
61149 I		S	GGATTACAGGCATGCGCCACCACACCCT	
61149 P	T	S	CGCGCCGAGGAGCTAATTTTGTATTTTTAGTAGAGATGG	
61149 P	C	S	CGCGCCGAGGGGCTAATTTTGTATTTTTAGTAGAGATGG	
61149 T	T	S	AACCCCATCTCTACTAAAAATACAAAATTAGCTGGGTGTGGTGGCGCATGCCTGTAATCCCA	
61149 T	C	S	AACCCCATCTCTACTAAAAATACAAAATTAGCCGGGTGTGGTGGCGCATGCCTGTAATCCCA	
			AATTAAGGTATATAGAGAAACCCCATCTCTACTAAAAATACAAAATTAGC[TC]GGGTGTGGT	
61149 IS	[TC]		GGCGCATGCCTGTAATCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATT	
61151 I		A	CCAGCATTTGTTCAGCACTTTCCTGGGGAGATTCACA	
61151 P	C	A	CGCGCCGAGGCTCGTGCTTCCTGTCG	
61151 P	T	A	CGCGCCGAGGTTCGTGCTTCCTGTCGT	
61151 T	C	A	*AAAAACGACAGGAAGCACGAGGTGAA*TCTCCCCAGGAAAGTGCTGAACAAATGCTGGAT	
61151 T	T	A	AAAAACGACAGGAAGCACGAAGTGAATCTCCCCAGGAAAGTGCTGAACAAATGCTGGAT	
			GCAGGGCCCCGTGTGTTTAGCTCCCCTCTTCAGTTCCAAGAAATTCGCCGGTGAACCCGATCCAGCATTTGTTCAGC	
61151 IS	[CT]		ACTTTCCTGGGGAGATTCAC[CT]TCGTGCTTCCTGTCGTTTTTGGAACCCGTTTAATTTCAGCCGTGCTGTGTCA	
64192 I		S	GGTTCAAAAGATCCTCCCACCTCAGCCTCCCT	
64192 P	INS	S	CGCGCCGAGGAAGTAACTGGGAATACAGGTACC	
64192 P	DEL	S	CGCGCCGAGGAGTAACTGGGAATACAGGTACC	
64192 T	INS	S	*TGTGGGTACCTGTATTCCCAGTTACTTGGGAGGCTGAGGTGGGAGGATCTTTTGAACCCA*	
64192 T	DEL	S	TGTGGGTACCTGTATTCCCAGTTACTGGGAGGCTGAGGTGGGAGGATCTTTTGAACCCA	
			CACTTCAGGTCAGGAGTTCGAGACCAGCCTGGCCAACATGGTAAACGCTGTCCCTAGTAAAAATACCAAAATTAACTG	
			GGTGTGGGTGTGGGTACCTGTATTCCCAGTTACT[T-	
			]GGGAGGCTGAGGTGGGAGGATCTTTTGAACCCAGGAGTTCAGGGTCATAGCATGCTGTGATTGTGCCTACGAATAG	
64192 IS	[T-]		CCACTGCATACCAACC	
64200 I		S	GCACGGAGGTCTCACCAGGTGGCAATA	
64200 P	A	S	CGCGCCGAGGTTCCTCGGCGGTGTAC	
64200 P	G	S	CGCGCCGAGGCTCCTCGGCGGTGTA	
64200 T	A	S	TGGAGTACACCGCCGAGGAAATTGCCACCTGGTGAGACCTCCGTGCAG	
64200 T	G	S	TGGAGTACACCGCCGAGGAGATTGCCACCTGGTGAGACCTCCGTGCAG	
			AAGCTCCCTCCCTCCCTCCTGCCCTTCTCACTCCCCGAGGGGACCTGCTGACCACTGGCCCCCTCCCCAGCGGCGA	
			CCCGATTCCCCCGTGTGGAGTACACCGCCGAGGA[AG]ATTGCCACCTGGTGAGACCTCCGTGCAGCTAGGGGCTGGG	
64200 IS	[AG]		GAGGAGCCCGGGGGATGCCTCCTGGAATCCTGGCGTGTGAGGGCCGCCTC	
64209 I		S	GCCGCCGCGCAGCCACCTCA	
64209 P	A	S	CGCGCCGAGGTGATTCCACAACTACAACCAAT	
64209 P	G	S	CGCGCCGAGGCGATTCCACAACTACAACCA	
64209 T	A	S	CRGAATTGGTTGTAGTTGTGGAATCAGAGGTGGCTGCGCGGCGGCAG	
64209 T	G	S	CRGAATTGGTTGTAGTTGTGGAATCGGAGGTGGCTGCGCGGCGGCAG	
			CTTCTTGCAGGGTCTATGGCAGGCACAGAGCCCGGGGGCTCTTGCATAGCACATGTGTATTTCTGGAGGCTTCCCCT	
			TCAGTCTCACCGCCCGGATGGCACRGAATTGGTTGTAGTTGTGGAATC[AG]GAGGTGGCTGCGCGGCGGCAGTGCA	
64209 IS	[AG]		GGCTCACACATCACAGCCYGAGCCCGCCCCAGCTGGGGTTCGCCCGTGGAA	
64210 I		A	GGCAGTGCAGGCTCACACATCACAGCCA	
64210 P	C	A	CGCGCCGAGGCGAGCCCGCCCC	
64210 P	T	A	CGCGCCGAGGTGAGCCCGCCCC	
64210 T	C	A	AGCTGGGGCGGGCTCGGGCTGTGATGTGTGAGCCTGCACTGCCGC	
64210 T	T	A	AGCTGGGGCGGGCTCAGGCTGTGATGTGTGAGCCTGCACTGCCGC	
			CTTCCCCTTCAGTCTCACCGCCCGGATGGCACRGAATTGGTTGTAGTTGTGGAATCRGAGGTGGCTGCGCGGCGGC	
			AGTGCAGGCTCACACATCACAGCC[CT]GAGCCCGCCCCAGCTGGGGTTCGCCCGTGGAAACATCCCAGGTCATCCAA	
64210 IS	[CT]		GCCGGGCGCCACAGGGTTCACAGGGGTCGTGAGGTATAGGACACTCATGG	
64211 I		A	GGCACAGAGCCCGGGGGCTCTTT	
64211 P	G	A	CGCGCCGAGGGCATAGCACATGGGTATTTCT	
64211 P	C	A	CGCGCCGAGGCCATAGCACATGGGTATTTCT	
64211 T	G	A	CTCCAGAAATACCCATGTGCTATGCAAGAGCCCCCGGGCTCTGTGCCTG	
64211 T	C	A	*CTCCAGAAATACCCATGTGCTATGGAAGAGCCCCCGGGCTCTGTGCCTG*	
			TAGGGGAACAATGAGGTGTCCCAGTTCCATGGATGATGGGGATCTCGGCCCTAGTGTGAAACCCTTCTCGCAGGGTC	
			TCTGGCAGGCACAGAGCCCGGGGGCTCTT[GC]CATAGCACATGGGTATTTCTGGAGGCTTCTCCTTCGGTCTCACCG	
64211 IS	[GC]		CCTGGATGGCACGGAATTGGTTGTAGTTGTGGAATCGGAAGTGGCCGCGYG	
64213 I		A	CATCACAGCCCGAGCCCGCCCT	
64213 P	A	A	CGCGCCGAGGAAACTGGGGTTCGCC	
64213 P	C	A	CGCGCCGAGGCAACTGGGGTTCGCC	
64213 T	A	A	*CACGGGCGAACCCCAGTTTGGGCGGGCTCGGGCTGTGATGTG*	
64213 T	C	A	CACGGGCGAACCCCAGTTGGGCGGGCTCGGGCTGTGATGTG	
			GCACATGGGTATTTCTGGAGGCTTCTCCTTCGGTCTCACCGCCTGGATGGCACGGAATTGGTTGTAGTTGTGGAATC	
			GGAAGTGGCCGCGYGGCGGCAGTGCAGGCTCACACATCACAGCCCGAGCCCGCCC[AC]AACTGGGGTTCGCCCGT	
64213 IS	[AC]		GGAAACGTCCCGGGTCACCCAAGCCACGCGTCGCAGGGTTCACGGGGGTCA	
64218 I		S	GGCGGCCGGGCCCTGCT	
64218 P	C	S	CGCGCCGAGGGCAGGCACTTGCCAA	
64218 P	T	S	*CGCGCCGAGGACAGGCACTTGCCAAG*	
64218 T	C	S	CCACCTTGGCAAGTGCCTGCGCAGGGCCCGGCCGCCCT	
64218 T	T	S	CCACCTTGGCAAGTGCCTGTGCAGGGCCCGGCCGCCCT	
			GGTTGGAGTTGTGGAGACGGCCTTGAGTCTCRGTRCGAGTGTGCGTGAGTGTGAGCCACCTTGGCAAGTGCCTG[CT	
			]GCAGGGCCCGGCCGCCCTCCATCTGGGCCGGGTGACTGGGCGCCGGCTGTGTGCCCGAGGCCTCACCCTGCCCT	
64218 IS	[CT]		CGCCTAGTCTGGAAGCTCCGACCGACATCACGGAGCAGCCTTCAAGCATTCC	MGC4485
64224 I		S	GGGAGGGGACCTGCGGCAGGGT	
64224 P	G	S	CGCGCCGAGGCAGAGCCAGGCTGGA	
64224 P	T	S	CGCGCCGAGGAAGAGCCAGGCTGGAG	
64224 T	G	S	TGGTCTCCAGCCTGGCTCTGCCCTGCCGCAGGTCCCCTCCCCT	
64224 T	T	S	TGGTCTCCAGCCTGGCTCTTCCCTGCCGCAGGTCCCCTCCCCT	
			GTCCTGTGCAACCAGGCCTTGGACCCAAACCCTCCTGCCCCCTCCTCTCCCTCCTCACCCTCCCAATGCAGTGGTCT	
			CCAGCCTGGCTCT[GT]CCCTGCCGCAGGTCCCCTCCCCTCATTCCAGGCCTAGAGCCTCCAGTCCCGGTGGCCCCC	
64224 IS	[GT]		AGCCCGAGGGTGAACGGCCTCACCCTGGGTCGTGGGACAGAGGGCACGTTC	
64228 I		A	CAAGCCAGCACTGAAGCCCYGGGGGA	
64228 P	C	A	CGCGCCGAGGCTTCAGCCACAATGGAGAG	
64228 P	T	A	CGCGCCGAGGTTTCAGCCACAATGGAGAG	
64228 T	C	A	TTAGCTCTCCATTGTGGCTGAAGCCCCCRGGGCTTCAGTGCTGGCTTGAA	
64228 T	T	A	TTAGCTCTCCATTGTGGCTGAAACCCCCRGGGCTTCAGTGCTGGCTTGAA	

FIGURE 129D


GAGGAAAAAACTGCCAATCCCCAGGCCTGGGGAGCCCCACCCCCTCTTCAAGCCAGCACTGAAGCCCYGGGGG[CT]T
TCAGCCACAATGGAGAGCTAAACCGGGCCCACCCCAGGGCCCAGGAGGGGCATCTGTAGAGGGTTCAGCCCCAGGA
64228 IS [CT] GGAC
64244 I A GTGTGACAGTGGCACCTGTCCTGTCCCG
64244 P C A CGCGCCGAGGCATGTGCCCTCTGGGY
64244 P A A CGCGCCGAGGAATGTGCCCTCTGGGGY
64244 T C A GCTACCCCAGAGGGCACATGGGGACAGGACAGGTGCCACTGTCACACCC
64244 T A A GCTACCCCAGAGGGCACATTGGGACAGGACAGGTGCCACTGTCACACCC
AACCTCTTCAAAGGGCTTCCAGCAAGAGTAGAATCCACTGCAGTTCCCCTTAGTGACTGAGATGGGGTGTGACAGTG
GCACCTGTCCTGTCCC[CAT]ATGTGCCCTCTGGGGTAGCGCCTTTGAGTCTGAGGATTCAGTTTAAAGATAGTCAATA
64244 IS [CAT] GGTTTTTCTTCTGAGTCCAAGGAGGACTCAGGTCAGTGGAAATAAGGAATGTTG
64257 I S GCTTCCAGACCCCAGAGATGCAAAATAAAGGACA
64257 P G S CGCGCCGAGGCTGATGCTTACGGATTCTTAACC
64257 P A S CGCGCCGAGGTTGATGCTTACGGATTCTTAACC
64257 T G S CTATGGTTAAGAATCCGTAAGCATCAGGTCCTTTATTTTGCATCTCTGGGGTCTGGAAGCAG
64257 T A S CTATGGTTAAGAATCCGTAAGCATCAAGTCCTTTATTTTGCATCTCTGGGGTCTGGAAGCAG
AATGGTTGCTTGTTTTCAGAAGCAGCAGATGTGATAAGACCTGCATGTTTCTGACTGACTGTATATGTTGGCCTGTTCT
ATGGTTAAGAATCCGTAAGCATCA[GA]GTCCTTTATTTTGCATCTCTGGGGTCTGGAAGCAGATTTTTATATATTTCTCT
64257 IS [GA] CAAAATCGGGTCAGG
64258 I A CATTGCTAACACATTATTTATGGGTATAGGAATTATCTTGTTTATATGAGTTTCTTAAAAC
64258 P A A CGCGCCGAGGATTTTCTGTACTTAACATGCATAGATTTT
64258 P T A CGCGCCGAGGTTTTTCTGTACTTAACATGCATAGATTTT
TTACAAAATCTATGCATGTTAAGTACAGAAAATTTTTAAGAAACTCATATAAACAAGATAATTCCTATACCCATAAATAAT
64258 T A A GTGTTAGCAATGGT
TTACAAAATCTATGCATGTTAAGTACAGAAAAATTTTAAGAAACTCATATAAACAAGATAATTCCTATACCCATAAATAAT
64258 T T A GTGTTAGCAATGGT
CCTTTGCTCATGGTTTAGTATGCATACATATACCATTGCTAACACATTATTTATGGGTATAGGAATTATCTTGTTTATAT
GAGTTTCTTAAAA[AT]TTTTCTGTACTTAACATGCATAGATTTTGTAATAAAAATAACAAAAAATGGATATAAATACTCTC
64258 IS [AT] CTCATGGATCCATTTGGTTTTATGAGTCACATTCCTTGCGGGTATATAACTTTGTA
64264 I S GCATAGCTTTACATTCAYGTGTTTTTTTTTTTTTCTTTGTCTGCCCC
64264 P A S CGCGCCGAGGTCTTTGCATTTCTTTTCTTTGGC
64264 P C S CGCGCCGAGGGCTTTGCATTTCTTTTCTTTGG
64264 T A S GTTGGCCAAAGAAAAGAAATGCAAAGAGGGCAGACAAAGAAAAAAAAAAAAAACACRTGAATGTAAAGCTATGCCA
64264 T C S GTTGGCCAAAGAAAAGAAATGCAAAGCGGGCAGACAAAGAAAAAAAAAAAAAACACRTGAATGTAAAGCTATGCCA
TTAGGAGGGTTTTGTTGYTGCCTTATAGAAGCTAACATAAGATGGGTAGACACTTGAGTGTGCTGGTTGGCCAAAGAA
AAGAAATGCAAAG[AC]GGGCAGACAAAGAAAAAAAAAAAAAACACRTGAATGTAAAGCTATGCCACTTTTTTWCCCCTC
64264 IS [AC] TCATAGGTAATTCTGGAACACTTTATTTATTATATCTACTGTGTGCACACTTA
64265 I A GGCCAAAGAAAAGAAATGCAAAGMGGGCAGACAAAGAAAAAAAAAAAAAACACT
64265 P A A CGCGCCGAGGATGAATGTAAAGCTATGCCACT
64265 P G A CGCGCCGAGGGTGAATGTAAAGCTATGCCACT
64265 T A A AAAAAGTGGCATAGCTTTACATTCATGTGTTTTTTTTTTTTTCTTTGTCTGCCCKCTTTGCATTTCTTTTCTTTGGCCAA
AAAAAGTGGCATAGCTTTACATTCACGTGTTTTTTTTTTTTTCTTTGTCTGCCCKCTTTGCATTTCTTTTCTTTGGCCA
64265 T G A A
TTAGGAGGGTTTTGTTGYTGCCTTATAGAAGCTAACATAAGATGGGTAGACACTTGAGTGTGCTGGTTGGCCAAAGAA
AAGAAATGCAAAGMGGGCAGACAAAGAAAAAAAAAAAAAAACAC[AG]TGAATGTAAAGCTATGCCACTTTTTTWCCCCT
64265 IS [AG] CTCATAGGTAATTCTGGAACACTTTATTTATTATATCTACTGTGTGCACACTTA
64267 I A GTAAGGAGGAGGCTGATCCTGCAGGGATCCA
64267 P C A CGCGCCGAGGCCCTAGCTGCTGAAGCT
64267 P T A CGCGCCGAGGTCCTAGCTGCTGAAGCTT
64267 T C A GGGGAAGCTTCAGCAGCTAGGGGGATCCCTGCAGGATCAGCCTCCTCCTTACCT
64267 T T A GGGGAAGCTTCAGCAGCTAGGAGGATCCCTGCAGGATCAGCCTCCTCCTTACCT
GGTCCAGGCTCTGAAACAGATTCCAGGTTTGGGGCTTTAGGCCAGCCACTAGGAATGCCAGACCACAGCCAAGGGGT
CTGCAAGGTAAGGAGGAGGCTGATCCTGCAGGGATCC[CT]CCTAGCTGCTGAAGCTTCCCCTAGCTACCTTCTGTAG
64267 IS [CT] GGCTCCTGGGTCTCAGCAGTGGGTGTGAAGGAAGCTGTTTGAGGGACTGA
64268 I A AAGTCCTGTTTCAATGATCCTTCCCATGCCTCT
64268 P G A CGCGCCGAGGGCCTTCTCAAAAATCTTGGTC
64268 P A A CGCGCCGAGGACCTTCTCAAAAATCTTGGTCAA
64268 T G A ATTCTTGACCAAGATTTTTGAGAAGGCGAGGCATGGGAAGGATCATTGAAACAGGACTTTG
64268 T A A ATTCTTGACCAAGATTTTTGAGAAGGTGAGGCATGGGAAGGATCATTGAAACAGGACTTTG
ATAGTGGAGAAGAGCTCACTTCTATGTAAACAATGTTTTATGTCAAAGTCCTGTTTCAATGATCCTTCCCATGCCTC[GA
]CCTTCTCAAAAATCTTGGTCAAGAATACAAGTACTTGTGGTTTAAAATATTCAGAACTGCTTTCACGTGCCTGGAAAAT
64268 IS [GA] TAACTGGGCAAAAATTTCCATTCACCTCACAGGAAGTGCTTTTAGTTTGCTTTT
64272 I A GCGGATAAATTAGAGCTACATATGATAACCTCATTGACAGTAGTATTTGAAAA
64272 P T A CGCGCCGAGGTGTAAATCCTGATATTTTAGAATGAAATGG
64272 P C A CGCGCCGAGGCGTAAATCCTGATATTTTAGAATGAAATGG
TTTTCCATTTCATTCTAAAATATCAGGATTTACATTTCAAATACTACTGTCAATGAGGTTATCATATGTAGCTCTAATTTA
64272 T T A TCCGCTT
TTTTCCATTTCATTCTAAAATATCAGGATTTACGTTTCAAATACTACTGTCAATGAGGTTATCATATGTAGCTCTAATTTA
64272 T C A TCCGCTT
GCCTGTTCTTTTGGAGTTGGCCAAGAAAGCGGATAAATTAGAGCTACATATGATAACCTCATTGACAGTAGTATTTGAA
A[TC]GTAAATCCTGATATTTTAGAATGAAATGGAAAAAAGAATAAAAAGGTAACATATAGCTTAGAAATTTTTACTCTTAA
64272 IS [TC] ACTATAAGGAGGATTTTGAAAAGACAGAAAGTTTTATGAGAATGGCACTAT
64301 I A CTGTCTACTATGTGCCAAGCACACACATTATTTGTCAGAATCTAAAGTAAC
64301 P A A CGCGCCGAGGATTCTTCAAGGTTACATAGCTAATAAGTV
64301 P T A CGCGCCGAGGTTTCTTCAAGGTTACATAGCTAATAAGTV
TAATACTTATTAGCTATGTAACCTTGAAGAATTTACTTTAGATTCTGACAAATAATGTGTGTGCTTGGCACATAGTAGAC
64301 T A A AG
TAATACTTATTAGCTATGTAACCTTGAAGAAATTACTTTAGATTCTGACAAATAATGTGTGTGCTTGGCACATAGTAGAC
64301 T T A AG
64301 IS [AT] ctgtctactatgtgccaagcacacacattattgtcagaatctaaagtaa[AT]ttcttcaaggttacatagctaataagtattaaaatgaatttcaaaagtta
64365 I A GGGATTGGGGTTGGTTTTCTGAAAGCATCTTGCAACATTTAAATATGAT
64365 P G A CGCGCCGAGGGCTTCAAAACCCTTTTCCAGV
64365 P C A CGCGCCGAGGCCTTCAAAACCCTTTTCCAGTV
64365 T G A AAAAACTGGAAAAGGGTTTTGAAGCTCATATTTAAATGTTGCAAGATGCTTTCAGAAAACCAACCCCAATCCCAT
64365 T C A AAAAACTGGAAAAGGGTTTTGAAGGTCATATTTAAATGTTGCAAGATGCTTTCAGAAAACCAACCCCAATCCCAT

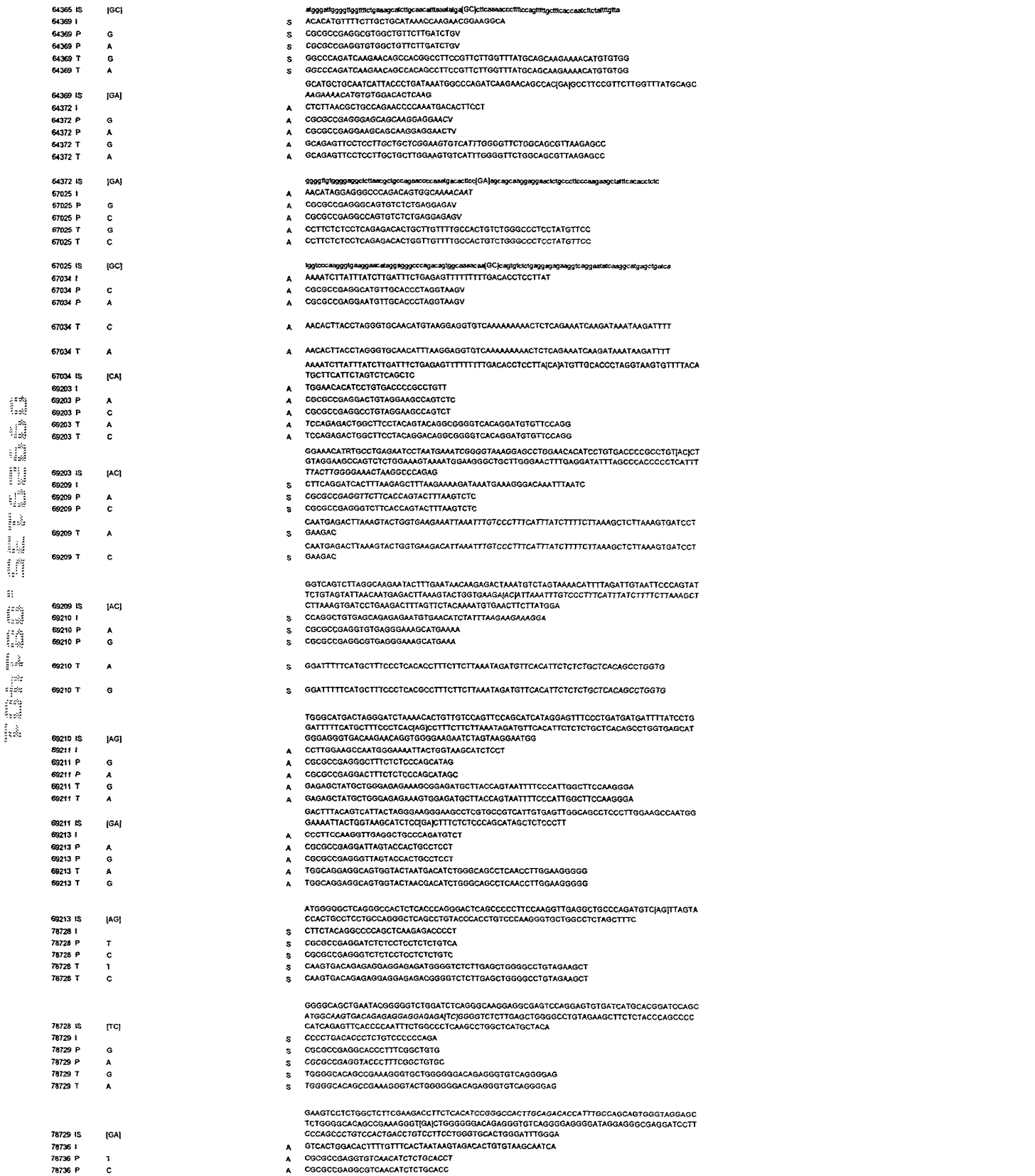


FIGURE 129D

78736	T	T	A	ATAGAGGTGCAGAGATGTTGACAGATTGCTTACACAGTGTCTACTTATTAGTGAAACAAAAGTGTCCAGTGAC	
78736	T	C	A	ATAGAGGTGCAGAGATGTTGACGGATTGCTTACACAGTGTCTACTTATTAGTGAAACAAAAGTGTCCAGTGAC	
78736	IS	[TC]		*GTCACTGGACACTTTTGTTTCACTAATAAGTAGACACTGTGTAAGCAATC*[TC]GTCAACATCTCTGCACCTCTATTTTTG GTATAAGTATTTCCTTAGGATAA	PDCD2
78737	I		A	*CCTGAGGTTCAGTAAGTGATGCCCACAGGTGCA*	
78737	P	C	A	CGCGCCGAGGCGGCCACTCCAGCT	
78737	P	T	A	*CGCGCCGAGGTGGCCACTCCAGCTT*	
78737	T	C	A	TCCCAAGCTGGAGTGGCCGGCACCTGTGGGCATCACTTACTGAACCTCAGGCG	
78737	T	T	A	TCCCAAGCTGGAGTGGCCAGCACCTGTGGGCATCACTTACTGAACCTCAGGCG	
78737	IS	[CT]		CGGGCACCTGCGGCCGCCTGAGGTTCAGTAAGTGATGCCCACAGGTGC[CT]GGCCACTCCAGCTTGGGAGGATGGC CCAGCTGTGTGGCCACCCAGCACAG	
78740	I		S	GGAAGTTAGCCTGAGACCGATTCCCGTGCTT	
78740	P	C	S	CGCGCCGAGGGCAGCTTCAGGTGCTC	
78740	P	G	S	CGCGCCGAGGCCAGCTTCAGGTGCTC	
78740	T	C	S	ATGGGAGCACCTGAAGCTGCAGCACGGGAATCGGTCT*CAGGCTAACTTCCCA*	
78740	T	G	S	ATGGGAGCACCTGAAGCTGGAGCACGGGAATCGGTCTCAGGCTAACTTCCCA	
78740	IS	[CG]		AGGTCAGTGCAGGCAGCAGCCGCTCCCTCCTCCTCGGCATGGGAGCACCTGAAGCTG[CG]*AGCACGGGAATCGGTC* TCAGGCTAACTTCCCATTTGTCTTGTGGCCCCCCAGGTGTAAAA	
20741	I		A	GTCCTGAGGTACCAGCAACAGGCACAAAGAA	
20741	P	C	A	ATGACGTGGCAGACCGCAACGTGGGAAGY	
20741	P	T	A	CGCGCCGAGGTGCAACGTGGGAAGY	
20741	T	C	A	TCAGCTTCCCACGTTGCGTCTTTGTGCCTGTTGCTGGTACCTCAGGACAG	
20741	T	T	A	TCAGCTTCCCACGTTGCATCTTTGTGCCTGTTGCTGGTACCTCAGGACAG	
20741	IS	[CT]		GAAATCATGATGGACCGGGACTGGGAGTCTGTCCTGAGGTACCAGCAACAGGCACAAAGA[CT]GCAACGTGGGAAGC TGAGAAGGACCCCTCAGCGCACACTGACTGACTTGCCACACCAACA	
25532	I		A	CAATCCACTGTCATCTACAGGTACAGACTTGCTATAGACTAGAGAAAAGA	
25532	P	C	A	ATGACGTGGCAGACCGCTAAGAGGAATATCAAGAAY	
25532	P	T	A	CGCGCCGAGGTGCTAAGAGGAATATCAAGAAGY	
25532	T	C	A	ATACCTTCTTGATATTCCTCTTAGGCGTTTTCTCTAGTCTATAGCAAGTCTGTACCTGTAGATGACAGTGGATTGCT	
25532	T	T	A	ATACCTTCTTGATATTCCTCTTAGCACTTTTCTCTAGTCTATAGCAAGTCTGTACCTGTAGATGACAGTGGATTGCT	
25532	IS	[CT]		TAATATCTGAGCAATCCACTGTCATCTACAGGTACAGACTTGCTATAGACTAGAGAAAAG[CT]GCTAAGAGGAATATCA AGAAGGTATGCCTCAGCAACAGCTTTCAAGTTGTATAGAAGAGC	
36310	I		S	GGTAGAGATGATGGTGAAACACTACAGACCCTTCCATTAAATGGT	
36310	P	T	S	*CGCGCCGAGGAAGGTGAGTGCAGGCY*	
36310	P	G	S	ATGACGTGGCAGACCAGGTGAGTGCAGGCY	
36310	T	T	S	*CAGTGCCTGCACTCACCTTCCATTTAATGGAAGGGTCTGTAGTGTTTCACCATCATCTCTACCCT*	
36310	T	G	S	CAGTGCCTGCACTCACCTGCCATTTAATGGAAGGGTCTGTAGTGTTTCACCATCATCTCTACCCT	
36310	IS	[TG]		TAACTGAAGAAGAAGGGAGCCGTGATTTGGGTGGGCTGGGCCCAGTGCCTGCACTCACC[TG]CCATTTAATGGAAG GGTCTGTAGTGTTTCACCATCATCTCTACCCTGTGACCTCCCTCTG	
36698	I		A	GGCTTGCTGGGCCCCGATGAATGTTT	
36698	P	G	A	ATGACGTGGCAGACGCCCAGGGATACATGY	
36698	P	C	A	CGCGCCGAGGCCCCAGGGATACATGCY	
36698	T	G	A	CCAGGCATGTATCCCTGGGCAACATTCATCGGGGCCCAGCAAGCCCA	
36698	T	C	A	CCAGGCATGTATCCCTGGGGAACATTCATCGGGGCCCAGCAAGCCCA	
36698	IS	[GC]		AATTCCCGGTGAGGGGAGCCACCCCCGACTTCCTGGGCTTGCTGGGCCCCGATGAATGTT[GC]CCCAGGGATACAT GCCTGGCCAGGCCCTGGACCCAGTCTAGGGATGTTGGGCAGCAGCAA	
37278	I		S	GGCACATGCCAGGCTCTGTGCAGAC	
37278	P	C	S	ATGACGTGGCAGACGATTTGCAAACCCGAGAY	
37278	P	A	S	CGCGCCGAGGTATTTGCAAACCCGAGAGY	
37278	T	C	S	TCATCTCTCGGGTTTGCAAATCTCTGCACAGAGCCTGGCATGTGCCAA	
37278	T	A	S	TCATCTCTCGGGTTTGCAAATATCTGCACAGAGCCTGGCATGTGCCAA	
37278	IS	[CA]		TCTTGGTCTGTTCTTCCTATAAGACTACAAGCTTCTAAGTCATCTCTCGGGTTTGCAAAT[CA]TCTGCACAGAGCC*TGG* CATGTGCCAAGCCCCCCAGGAGGGCTTGGGGATTGGCTGACTTT	
39836	I		A	GGAATGGATTCTTCAGCATCCTCCCCAAACACCT	
39836	P	G	A	ATGACGTGGCAGACGGGAGGAAGAGGGAGY	
39836	P	C	A	CGCGCCGAGGCGGAGGAAGAGGGAGY	
39836	T	G	A	CAAGCTCCCTCTTCCTCCCGGTGTTTGGGGAGGATGCTGAAGAATCCATTCCCG	
39836	T	C	A	CAAGCTCCCTCTTCCTCCGGGTGTTTGGGGAGGATGCTGAAGAATCCATTCCCG	
39836	IS	[GC]		GGGCTGGGACAAGCCGGGAGGCCCTCGGGAATGGATTCTTCAGCATCCTCCCCAAACACC[GC]GGAGGAAGAGGGA GCTTGGAATGGGGTCTCCCTCTCTATCTCGGTCCCCACCATGATGTG	CBX6
43516	I		S	GGGGCCTCCAAGAGGCTGGGGTC	
43516	P	C	S	ATGACGTGGCAGACGGGGGAGTGGTGGY	
43516	P	A	S	CGCGCCGAGGTGGGGAGTGGTGGTY	
43516	T	C	S	CTTGACCACCACTCCCCCACCCCAGCCTCTTGGAGGCCCCAG	
43516	T	A	S	CTTGACCACCACTCCCCAACCCCAGCCTCTTGGAGGCCCCAG	
43516	IS	[CA]		CTTAAATTCCACCGGGTATCACAGTGTCCTGAGTCACTGTCTGCTTGACCACCACTCCCC[CA]ACCCCAGCCTCTTGG AGGCCCCAGGAGAGGCACTGCTATTAATAGTAGGGGACCAATAGG	
43548	I		S	AGGACAGCCCATCCCCTCATCCCTAGTT	
43548	P	G	S	CGCGCCGAGGCCCCCTTGGGAACGY	
43548	P	C	S	ATGACGTGGCAGACGCCCCTTGGGAACGY	
43548	T	G	S	GATACGTTCCCAAGGGGGACTAGGGATGAGGGGATGGGCTGTCCTCC	
43548	T	C	S	GATACGTTCCCAAGGGGCACTAGGGATGAGGGGATGGGCTGTCCTCC	
43548	IS	[GC]		*AACAAATGTCATTTTCTGCT*CCAGGGACATGCTAGAATCTGCTGATACGTTCCCAAGGGG[GC]ACTAGGGATGAGGG GATGGGCTGTCCTCCATCCATGGTCCAGGGAAGCCAGAGCACAGGA	
44193	I		S	GGAGATATTCAGACCCATGCAATTACATACGCGAAGGGT	
44193	P	C	S	ATGACGTGGCAGACGGGCATGTCTTGGGAY	
44193	P	G	S	*CGCGCCGAGGCGGCATGTCTTGGGAY*	
44193	T	C	S	CTAATCCCAAGACATGCCCCCCTTCGCGTATGTAATTGCATGGGTCTGAATATCTCCCA	
44193	T	G	S	*CTAATCCCAAGACATGCCGCCCTTCGCGTATGTAATTGCATGGGTCTGAATATCTCCCA*	
44193	IS	[CG]		GCGGAGATGTTCGCTGCAGAGACTTCCTTACTCATCCTCTTTCTAATCCCAAGACATGCC[CG]CCCTTCGCGTATGTA *ATTGCATGGGTCTGAATATCTCCCAGTGTGATGGTCAAAACAAAG*	
44355	I		S	CGGAGCCTTGGAAGGTTAACCCGGCA	
44355	P	G	S	*ATGACGTGGCAGACCGCGGCCTTGGAY*	
44355	P	A	S	CGCGCCGAGGTGCGGCCTTGGAATY	
44355	T	G	S	*GACGATTCCAAGGCCGCGGCCGGGTTAACCTTCCAAGGCTCCGGG*	
44355	T	A	S	GACGATTCCAAGGCCGCAGCCGGGTTAACCTTCCAAGGCTCCGGG	
44355	IS	[GA]		*TTGAGGAGGCCCTGGACGGGGTGAGGGCTCCGGGTGCCGTCTAGACGATTCCAAGGCCGC[GA]GCCGGGTTAACCT* TCCAAGGCTCCGGGGGCAAAGCCAAGGTGGCGAAGGGGGACAGGCCA	
44434	I		S	*CCAGACCCCTAAATTCTCCTCCTCCCCCATTTTGT*	
44434	P	T	S	CGCGCCGAGGATGTTAAGGTGGAGAGGGY	
44434	P	C	S	*ATGACGTGGCAGACGTGTTAAGGTGGAGAGGGY*	
44434	T	T	S	TATGCCCTCTCCACCTTAACATCAAAATGGGGGAGGAGGAGAATTTAGGGGTCTGGGT	
44434	T	C	S	*TATGCCCTCTCCACCTTAACACCAAAATGGGGGAGGAGGAGAATTTAGGGGTCTGGGT*	
44434	IS	[TC]		CCCTCAGCTATAGACACCTAGATCAGGACAGAGGATGCATATGCCCTCTCCACCTTAACA[TC]CAAAATGGGGGAGGA GGAGAATTTAGGGGTCTGGGTCCCTAAGAGATATTAGGACATCTC	NDRG2

FIGURE 129D


44714 I A GGTCAGCACTGGGTACGCAGCATGCTAGC
44714 P G A ATGACGTGGCAGACGTGGTAACCCCTCAGCY
44714 P T A CGCGCCGAGGTTGGTAACCCCTCAGCY
44714 T G A ATGGGCTGAGGGGTTACCACCTAGCATGCTGCGTACCCAGTGCTGACCAG
44714 T T A ATGGGCTGAGGGGTTACCAACTAGCATGCTGCGTACCCAGTGCTGACCAG
44714 IS [GT] CCCATCTGTCCCTCTCGGAGCTCTGTGTCACTGGTCAGCACTGGGTACGCAGCATGCTAG[GT]TGGTAACCCCTCAG CCCATCCCAGTCAGTCCAAGTTCCCCTGTCTCTGCTTGAGGAGCGG
45766 I A AGACCCAGTGGTAGACCAAGCGGTGCA
45766 P T A CGCGCCGAGGTGGGAACCAGAGGCY
45766 P C A ATGACGTGGCAGACCGGGAACCAGAGGCY
45766 T T A TGCAGCCTCTGGTTCCCAGCACCGCTTGGTCTACCACTGGGTCTAG
45766 T C A TGCAGCCTCTGGTTCCCGGCACCGCTTGGTCTACCACTGGGTCTAG
45766 IS [TC] GAGAAGGGAGGACTGGAACCAGGGGTCAAGGCCTAGACCCAGTGGTAGACCAAGCGGTGC[TC]GGGAACCAGAGGC TGCAGGGACTCCCTGTTGCTGGGCTCCAAGCTGCATTCTATGAGTTG
45899 I A GGATGCCAAGGTAGGGGAGAATGTGAGCAGT
45899 P G A ATGACGTGGCAGACGGCATGATCAACCCTGY
45899 P C A CGCGCCGAGGCGCATGATCAACCCTGY
45899 T G A TTCACAGGGTTGATCATGCCCTGCTCACATTCTCCCCTACCTTGGCATCCAT
45899 T C A TTCACAGGGTTGATCATGCGCTGCTCACATTCTCCCCTACCTTGGCATCCAT
45899 IS [GC] AAGATAGGAACCAAGAACCTTGGCTATCATGGATGCCAAGGTAGGGGAGAATGTGAGCAG[GC]GCATGATCAACCCT GTGAAACATGCCAGCAATGCAAAGTAAGATACTATCTTAAGAGTCG
46972 I S GGACCTGCGGGCCTGGAGGAGAAACA
46972 P G S ATGACGTGGCAGACCCACACTCCTTAGGCTY
46972 P A S CGCGCCGAGGTCACACTCCTTAGGCTGY
46972 T G S ATGCCAGCCTAAGGAGTGTGGGTTTCTCCTCCAGGCCCGCAGGTCCCC
46972 T A S ATGCCAGCCTAAGGAGTGTGAGTTTCTCCTCCAGGCCCGCAGGTCCCC
46972 IS [GA] TCTTTCACAGTAATCAACTGCCAGATTGCAGACAGCCCTGATGCCAGCCTAAGGAGTGTG[GA]GTTTCTCCTCCAGGC CCGCAGGTCCCCAACCTCACTCCTCTGAAGACTCTTCTGGAGATC
50071 I A GTTGGAAGGGACAGGGAAAGAGATCGAATTTACAGCTC
50071 P T A CGCGCCGAGGTGCTAACAGAGGCCCY
50071 P G A ATGACGTGGCAGACGGCTAACAGAGGCCCY
50071 T T A CTCTGGGCCTCTGTTAGCAAGCTGTAAATTCGATCTCTTTCCCTGTCCCTTCCAACTT
50071 T G A CTCTGGGCCTCTGTTAGCCAGCTGTAAATTCGATCTCTTTCCCTGTCCCTTCCAACTT
50071 IS [TG] AATTTTTAAAAGAACTCAGTAAAGTTGGAAGGGACAGGGAAAGAGATCGAATTTACAGCT[TG]GCTAACAGAGGCCCA GAGAGATCAGATAATATTGCTATTGTTATTACTGTTATTACTACC
51832 I A ACATATTTGAACACAGGTCAAAAAGCAGAGGAGAGTTTAT
51832 P A A CGCGCCGAGGAATTTTTGTTTTGTTTTGTTCAGTY
51832 P C A ATGACGTGGCAGACCATTTTTGTTTTGTTTTGTTCAGTY
51832 T A A CCTAACTGAACAAAACAAAACAAAAATTTAAACTCTCCTCTGCTTTTTGACCTGTGTTCAAATATGTAA
51832 T C A CCTAACTGAACAAAACAAAACAAAAATGTAAACTCTCCTCTGCTTTTTGACCTGTGTTCAAATATGTAA
51832 IS [AC] CTAAGGATTTCTTAACTACTTACATATTTGAACACAGGTCAAAAAGCAGAGGAGAGTTTA[AC]ATTTTTGTTTTGTTTTG TTCAGTTAGGCCAAGAAAATCAGGTACTCACTCTTATCTTTAC
52090 I A GACGGGCCGGAGGGGAGGGT
52090 P G A ATGACGTGGCAGACGCTGAGGGAGGGTGY
52090 P A A CGCGCCGAGGACTGAGGGAGGGTGTY
52090 T G A CCCCACACCCTCCCTCAGCCCCTCCCCTCCGGCCCGTCCT
52090 T A A CCCCACACCCTCCCTCAGTCCCTCCCCTCCGGCCCGTCCT
52090 IS [GA] GGCCAGGGCAGCCTGCCGGATGCTCCAGGTCACCTGCCCAGGACGGGCCGGAGGGGAGGG[GA]CTGAGGGAGGG TGTGGGGGACGCAGGAGGCACCACTTCGCTGCCCGCCCTGGGTAAAGGG PAH
52258 I A CAGAATCAACTGCTCACTACTGATCAAACGGATTTTAATGA
52258 P C A ATGACGTGGCAGACCGAGTATCAGAGCAACCY
52258 P T A CGCGCCGAGGTGAGTATCAGAGCAACCAY
52258 T C A GAAATGGTTGCTCTGATACTCGCATTAAAATCCGTTTGATCAGTAGTGAGCAGTTGATTCTGTT
52258 T T A GAAATGGTTGCTCTGATACTCACATTAAAATCCGTTTGATCAGTAGTGAGCAGTTGATTCTGTT
52258 IS [CT] GGTTAATCAGAAGAATCAAACAGAATCAACTGCTCACTACTGATCAAACGGATTTTAATG[CT]GAGTATCAGAGCAACC ATTTCAACAGCACATGGCTGACCCAGCAGCCTCGTGTTTACCCA
52422 I S CGGATTGCAGCTGTTTCATACCCAGATGACCTGT
52422 P T S CGCGCCGAGGAGGGGCATCTTCAGTGY
52422 P C S ATGACGTGGCAGACGGGGGCATCTTCAGTY
52422 T T S CACACACTGAAGATGCCCCTCAGGTCATCTGGGTATGAAACAGCTGCAATCCGCA
52422 T C S CACACACTGAAGATGCCCCCCAGGTCATCTGGGTATGAAACAGCTGCAATCCGCA
52422 IS [TC] AGTACGGCTGGAGGACGAGTATCAGTGCTGAGTCTGATCTGCACACACTGAAGATGCCCC[TC]CAGGTCATCTGGGT ATGAAACAGCTGCAATCCGCAACGGCCCTGGGAGAAACCACTGAAG
61178 I A CAGGAGGGCCACCCATGAGTGACATCTC
61178 P T A CGCGCCGAGGTTAGAGATGTCCTCGGCY
61178 P G A ATGACGTGGCAGACGTAGAGATGTCCTCGGCY
61178 T T A CCTAGCCGAGGACATCTCTAAAGATGTCACTCATGGGTGGCCCTCCTGTG
61178 T G A CCTAGCCGAGGACATCTCTACAGATGTCACTCATGGGTGGCCCTCCTGTG
61178 IS [TG] CTGGGGCTTGGGTTCCCAGGAGCCTCCCCTCCACAGGAGGGCCACCCATGAGTGACATC[TG]TAGAGATGTCCTCG GCTAGGCACTAGCAGCCAGCACAGCTCCAAGAGGAGTGGCAGGACT
61303 I A CCACCCCAGCACTCCAATGTTAATCCAATTTTAAATTTACAAGATCCT
61303 P A A CGCGCCGAGGATCTTAACTAGAAATGCAGGCY
61303 P G A ATGACGTGGCAGACGTCTTAACTAGAAATGCAGGCY
61303 T A A TAGAGCCTGCATTTCTAGTTAAGATGGATCTTGTAAATTTAAAATTGGATTAACATTGGAGTGCTGGGGTGGCT
61303 T G A TAGAGCCTGCATTTCTAGTTAAGACGGATCTTGTAAATTTAAAATTGGATTAACATTGGAGTGCTGGGGTGGCT
61303 IS [AG] CAAATTATTGCAGCCACCCCAGCACTCCAATGTTAATCCAATTTTAAATTTACAAGATCC[AG]TCTTAACTAGAAATGCA GGCTCTAACTGTCCTGCAAGTTTTTTAAGTGGTAGCTGCTCAA KIAA0735
61772 I A TCATAAGACAGTCATTAAAAATCTTTTCTAATGAACATGTTAGCCATCCT
61772 P G A ATGACGTGGCAGACGCGGGAGAAAAAAAAATCAY
61772 P A A CGCGCCGAGGACGGGAGAAAAAAAAATCAGY
61772 T G A CTTACTGATTTTTTTTTCTCCCGCGGATGGCTAACATGTTCATTAGAAAAGATTTTTAATGACTGTCTTATGAAA
61772 T A A CTTACTGATTTTTTTTTCTCCCGTGGATGGCTAACATGTTCATTAGAAAAGATTTTTAATGACTGTCTTATGAAA
61772 IS [GA] GTTTGTTATTTTCATAAGACAGTCATTAAAAATCTTTTCTAATGAACATGTTAGCCATCC[GA]CGGGAGAAAAAAAAATC AGTAAGAGAAATAATGGAAGGCACCTAGTGGAACTACATTCAC
61789 I S CGTGACAGTGTGGATGAGGCAAGTGAGTGTAGATGA
61789 P G S ATGACGTGGCAGACCTGCGACCCTGCGY
61789 P A S CGCGCCGAGGTTGCGACCCTGCGY
61789 T G S TTCTCGCAGGGTCGCAGCATCTACACTCACTTGCCTCATCCACACTGTCACGTT
61789 T A S TTCTCGCAGGGTCGCAACATCTACACTCACTTGCCTCATCCACACTGTCACGTT
61789 IS [GA] GACTGCGTCCCATGTAGGGAGCTAATGTGTTCACTAGCTATTGCTTCTCGCAGGGTCGCA[GA]CATCTACACTCACTT GCCTCATCCACACTGTCACGTTCAAAGACAAGAAATAATCCTGAA
61892 I A GGCCGCCCTGCCCTCCTTCTGT
61892 P G A ATGACGTGGCAGACGCCCTAAATTGGCCTGY

FIGURE 129D

61892 P	C	A	CGCGCCGAGGCCCCTAAATTGGCCTGY	
61892 T	G	A	TGACCAGGCCAATTTAGGGCCAGAAGGAGGGCAGGGCGGCCGT	
61892 T	C	A	TGACCAGGCCAATTTAGGGGCAGAAGGAGGGCAGGGCGGCCGT	
			CTGCCCCTTCCTACATCACCAGGTAGATGACCCCAGTACGGCCGCCCTGCCCTCCTTCTG[GC]CCCTAAATTGGCCT	
61892 IS	[GC]		GGTCAGCTCTTCCGACCAACTGACTCAGTTTCCCAGATCTCAAATC	
62171 I		S	GGGGAGATCAGCTGGAGGAGGTCATGCA	
62171 P	A	S	CGCGCCGAGGTGGGCAACTGTGTAATCY	
62171 P	G	S	ATGACGTGGCAGACCGGGCAACTGTGTAATCY	
62171 T	A	S	CTTAGATTACACAGTTGCCCAGCATGACCTCCTCCAGCTGATCTCCCCCA	
62171 T	G	S	CTTAGATTACACAGTTGCCCGGCATGACCTCCTCCAGCTGATCTCCCCCA	
			CTTCTGGGAGGGCAGAATATTCAACCCAACTCCCCAGGGTCTTAGATTACACAGTTGCCC[AG]GCATGACCTCCTCCA	
62171 IS	[AG]		GCTGATCTCCCCCAACCCTTCCTCGGGCGCTGACAACCCTGGCTT	
63122 I		S	AGCTGCCCAGTGTCACTTACAAGTCAATTACGGAGT	
63122 P	C	S	ATGACGTGGCAGACGGAAAAACACACAAAGCCY	
63122 P	T	S	CGCGCCGAGGAGAAAAACACACAAAGCCAY	
63122 T	C	S	GTAATGGCTTTGTGTGTTTTTCCCTCCGTAATTGACTTGTAAGTGACACTGGGCAGCTTT	
63122 T	T	S	GTAATGGCTTTGTGTGTTTTTCTCTCCGTAATTGACTTGTAAGTGACACTGGGCAGCTTT	
			TTAGGGTTTGTCAAGCCTTTTATACTTTTGCTTCCTCGTAATGGCTTTGTGTGTTTTTC[CT]CTCCGTAATTGACTTGT	
63122 IS	[CT]		AAGTGACACTGGGCAGCTTTGGTGTAAGAGGCTATGGAGGAAA	
63303 I		A	CCACGCCTCTTTGGAAAGTGCTTCCACAGATT	
63303 P	A	A	CGCGCCGAGGAGTATTTCCTTTGAACCTGGY	
63303 P	G	A	ATGACGTGGCAGACGGTATTTCCTTTGAACCTGGY	
63303 T	A	A	GTGGCCAGGTTCAAAGGAAATACTATCTGTGGAAGCACTTTCCAAAGAGGCGTGGTC	
63303 T	G	A	GTGGCCAGGTTCAAAGGAAATACCATCTGTGGAAGCACTTTCCAAAGAGGCGTGGTC	
			GAGGAGAGGAAAAACATTCTGCACTTGGACCACGCCTCTTTGGAAAGTGCTTCCACAGAT[AG]GTATTTCCTTTGAAC	
63303 IS	[AG]		CTGGCCACAGCCAAGGATGGGAAACAGGAAGGCTGAGCCCTGTCA	
63822 I		A	ACTGGGCTTACAGTCTGCATCTGGAGCATTCAATTA	
63822 P	C	A	ATGACGTGGCAGACCTGGGATAGTAACTAACACAGY	
63822 P	T	A	CGCGCCGAGGTTGGGATAGTAACTAACACAGY	
63822 T	C	A	TGGGCTGTGTTAGTTACTATCCCAGAATTGAATGCTCCAGATGCAGACTGTAAGCCCAGTCT	
63822 T	T	A	TGGGCTGTGTTAGTTACTATCCCAAAATTGAATGCTCCAGATGCAGACTGTAAGCCCAGTCT	
			AAATTCAGCCTGGAATGTCTTTGAGACTGGGCTTACAGTCTGCATCTGGAGCATTCAATT[CT]TGGGATAGTAACTAAC	
63822 IS	[CT]		ACAGCCCATTTAATGTTCTTTCTGTTGATTGTACTGGATGACTA	
64377 I		S	GCCTTAGGCTGACTGAGGACAAACTGGCATT	
64377 P	G	S	CGCGCCGAGGCTTCATATCCAATTTGCATTCTY	
64377 P	C	S	ATGACGTGGCAGACGTTCATATCCAATTTGCATTCTY	
64377 T	G	S	TTTCAGAATGCAAATTGGATATGAAGATGCCAGTTTGTCCTCAGTCAGCCTAAGGCTA	
64377 T	C	S	TTTCAGAATGCAAATTGGATATGAACATGCCAGTTTGTCCTCAGTCAGCCTAAGGCTA	
			TTTTTAAAAATTCACTATAGAAGTTAGGGGGATCCTTTCAGAATGCAAATTGGATATGAA[GC]ATGCCAGTTTGTCCTC	
64377 IS	[GC]		AGTCAGCCTAAGGCTAATGAGCTTGTTGAAGACCCATTATTATT	
64830 I		A	GGTGGAGGCTGACGCTTCCCAGCT	
64830 P	G	A	ATGACGTGGCAGACGTGAGGATTCTGCTTCCY	
64830 P	A	A	CGCGCCGAGGATGAGGATTCTGCTTCCCY	
64830 T	G	A	TGATGGGAAGCAGAATCCTCACGCTGGGAAGCGTCAGCCTCCACCAC	
64830 T	A	A	TGATGGGAAGCAGAATCCTCATGCTGGGAAGCGTCAGCCTCCACCAC	
			AGCGCACAGGAGTCCTGCTGTCTACTCGCTGGGCAGTGGTGGAGGCTGACGCTTCCCAGC[GA]TGAGGATTCTGCTT	
64830 IS	[GA]		CCCATCAGTAAGGTTTGTCATCTGTGAAATTCTTTTTGCCTCTGGG	
64846 I		A	CAGGAGGGGAACTTTCATTTGGAGAACACAA	
64846 P	T	A	CGCGCCGAGGTCAAGAACTAACACTTAAACTGGY	
64846 P	C	A	ATGACGTGGCAGACCCAAGAACTAACACTTAAACTGY	
64846 T	T	A	TAGTCCAGTTTAAGTGTTAGTTCTTGATGTGTTCTCCAAATGAAAGTTCCCCTCCTGTT	
64846 T	C	A	TAGTCCAGTTTAAGTGTTAGTTCTTGGTGTGTTCTCCAAATGAAAGTTCCCCTCCTGTT	
			AATTTTGCCATTCTATAAGGGAAATGAAAACAGGAGGGGAACTTTCATTTGGAGAACACA[TC]CAAGAACTAACACTTA	
64846 IS	[TC]		AACTGGACTAAGTCATCCCTCCCTTCTACCCTACTCTCATCCTC	
65228 I		A	ACTTTCACAGAGACAGAGTGTGGGTTTGTATGGTCAGTT	
65228 P	A	A	CGCGCCGAGGATGTGTATGTAGCTACCTGAY	
65228 P	G	A	ATGACGTGGCAGACGTGTGTATGTAGCTACCTGY	
65228 T	A	A	AGTCTCAGGTAGCTACATACACATACTGACCATACAAACCCACACTCTGTCTCTGTGAAAGTAA	
65228 T	G	A	AGTCTCAGGTAGCTACATACACACACTGACCATACAAACCCACACTCTGTCTCTGTGAAAGTAA	
			GGGAGTCAGTCACACAGTTTTTACTTTCACAGAGACAGAGTGTGGGTTTGTATGGTCAGT[AG]TGTGTATGTAGCTAC	
65228 IS	[AG]		CTGAGACTGAGATGAAAATGACAGATTTTCAGTAACTAATTAAAT	
65304 I		S	GTCAAGGACATAAATGTAGTGCCATTTCTATTAGTGACAGAA	
65304 P	A	S	CGCGCCGAGGTATTTTAGATGTGATGGACTTAACTY	
65304 P	G	S	ATGACGTGGCAGACCATTTTAGATGTGATGGACTTAACY	
65304 T	A	S	TGATAGTTAAGTCCATCACATCTAAAATATCTGTCACTAATAGAAATGGCACTACATTTATGTCCTTGACTA	
65304 T	G	S	TGATAGTTAAGTCCATCACATCTAAAATGTCTGTCACTAATAGAAATGGCACTACATTTATGTCCTTGACTA	
			GAAAGCAATTCAGATTTACTAGCTATTATTGATGATAGTTAAGTCCATCACATCTAAAAT[AG]TCTGTCACTAATAGAAA	
65304 IS	[AG]		TGGCACTACATTTATGTCCTTGACTAGTTTTATGAGAAGAAAC	
65379 I		A	CTGATTTTGAAACATATAATAATGATTTTCTTGTTCCCTTCTTTAACTAGCTGT	
65379 P	C	A	ATGACGTGGCAGACCCTTTAGATTTTGATAATCACAGTY	
65379 P	A	A	CGCGCCGAGGACTTTAGATTTTGATAATCACAGTCY	
65379 T	C	A	TTAAGACTGTGATTATCAAAATCTAAAGGCAGCTAGTTAAAGAAGGGAACAAGAAAATCATTATTATATGTTTCAAAATC AGCT	
65379 T	A	A	TTAAGACTGTGATTATCAAAATCTAAAGTCAGCTAGTTAAAGAAGGGAACAAGAAAATCATTATTATATGTTTCAAAATC AGCT	
65379 IS	[CA]		TTATCAGCTGATTTTGAAACATATAATAATGATTTTCTTGTTCCCTTCTTTAACTAGCTG[CA]CTTTAGATTTTGATAATC ACAGTCTTAAAATACTAGGAAAGAAGTGGATGGGAATTGTAG	SH3BGRL2
65695 I		S	TTTCAATCTTTTGTTAGTTTTAGGTAATTTAGAGTTCACTAGTAGAAATAGTTTTTTTTTC	
65695 P	T	S	CGCGCCGAGGAAAAGATATTTTAACACCTGTTTTGY	
65695 P	A	S	ATGACGTGGCAGACTAAAGATATTTTAACACCTGTTTTGTY	
65695 T	T	S	ATTAACAAAACAGGTGTTAAAATATCTTTTAAAAAAAAACTATTTCTACTAGTGAACTCTAAATTACCTAAAACTAACAAA AGATTGAAA	
65695 T	A	S	ATTAACAAAACAGGTGTTAAAATATCTTTAAAAAAAAACTATTTCTACTAGTGAACTCTAAATTACCTAAAACTAACAAA AGATTGAAA	
65695 IS	[TA]		AAACGTTCAACATTTGAAACTATGAGAAATAATTAACAAAACAGGTGTTAAAATATCTTT[TA]AAAAAAAAACTATTTCTA CTAGTGAACTCTAAATTACCTAAAACTAACAAAAGATTGAAA	
65756 I		S	CATAGCACTGTTAGGGGAAATGGCCTTATGTTTATGTCCTCT	
65756 P	C	S	ATGACGTGGCAGACGTAAGCAGAGATTTTTCCATAAAAY	
65756 P	T	S	CGCGCCGAGGATAAGCAGAGATTTTTCCATAAAATY	
65756 T	C	S	AATAATTTTATGGAAAAATCTCTGCTTACGAGGACATAAACATAAGGCCATTTCCCCTAACAGTGCTATGTC	
65756 T	T	S	AATAATTTTATGGAAAAATCTCTGCTTATGAGGACATAAACATAAGGCCATTTCCCCTAACAGTGCTATGTC	
65756 IS	[CT]		TCCTATGTTTTTGTTGTTGTTTTTATTTATGTAATAATTTTATGGAAAAATCTCTGCTTA[CT]GAGGACATAAACATAAGG CCATTTCCCCTAACAGTGCTATGTCAACTCCCCCTTCCTGAG	
65864 I		S	AGAGGTGTTCACTTCTTCCCCTCCTTTCTTCATGAATGAATGATCATTTATAA	
65864 P	G	S	ATGACGTGGCAGACCATTCATTCATAAGTGAGCTACY	

FIGURE 129D

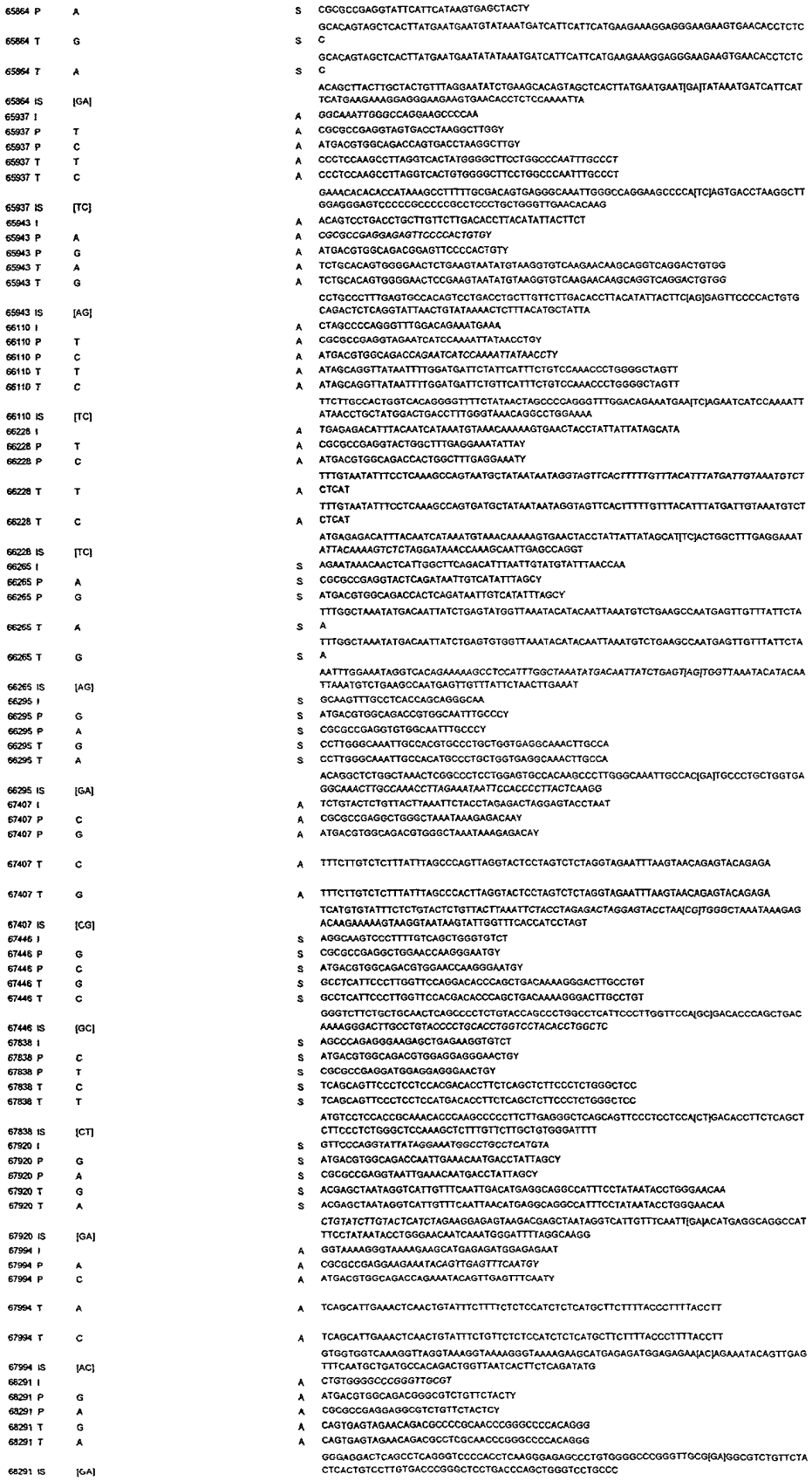

65864 P A S CGCGCCGAGGTATTCATTCATAAGTGAGCTACTY
65864 T G S GCACAGTAGCTCACTTATGAATGAATGTATAAATGATCATTCATTCATGAAGAAAGGAGGGAAGAAGTGAACACCTCTC C
65864 T A S GCACAGTAGCTCACTTATGAATGAATATATAAATGATCATTCATTCATGAAGAAAGGAGGGAAGAAGTGAACACCTCTC C
65864 IS [GA] ACAGCTTACTTGCTACTGTTTAGGAATATCTGAAGCACAGTAGCTCACTTATGAATGAAT[GA]TATAAATGATCATTCAT TCATGAAGAAAGGAGGGAAGAAGTGAACACCTCTCCAAAATTA
65937 I A GGCAAATTGGGCCAGGAAGCCCCAA
65937 P T A CGCGCCGAGGTAGTGACCTAAGGCTTGGY
65937 P C A ATGACGTGGCAGACCAGTGACCTAAGGCTTGY
65937 T T A CCCTCCAAGCCTTAGGTCACTATGGGGCTTCCTGGCCCAATTTGCCCT
65937 T C A CCCTCCAAGCCTTAGGTCACTGTGGGGCTTCCTGGCCCAATTTGCCCT
65937 IS [TC] GAAACACACCATAAAGCCTTTTTGCGACAGTGAGGGCAAATTGGGCCAGGAAGCCCCA[TC]AGTGACCTAAGGCTT GGAGGGAGTCCCCCGCCCCCGCCTCCCTGCTGGGTTGAACACAAG
65943 I A ACAGTCCTGACCTGCTTGTTCTTGACACCTTACATATTACTTCT
65943 P A A CGCGCCGAGGAGAGTTCCCCACTGTGY
65943 P G A ATGACGTGGCAGACGGAGTTCCCCACTGTY
65943 T A A TCTGCACAGTGGGGAACTCTGAAGTAATATGTAAGGTGTCAAGAACAAGCAGGTCAGGACTGTGG
65943 T G A TCTGCACAGTGGGGAACTCCGAAGTAATATGTAAGGTGTCAAGAACAAGCAGGTCAGGACTGTGG
65943 IS [AG] CCTGCCCTTTGAGTGCCACAGTCCTGACCTGCTTGTTCTTGACACCTTACATATTACTTC[AG]GAGTTCCCCACTGTG CAGACTCTCAGGTATTAACTGTATAAAACTCTTTACATGCTATTA
66110 I A CTAGCCCCAGGGTTTGGACAGAAATGAAA
66110 P T A CGCGCCGAGGTAGAATCATCCAAAATTATAACCTGY
66110 P C A ATGACGTGGCAGACCAGAATCATCCAAAATTATAACCTY
66110 T T A ATAGCAGGTTATAATTTTGGATGATTCTATTCATTTCTGTCCAAACCCTGGGGCTAGTT
66110 T C A ATAGCAGGTTATAATTTTGGATGATTCTGTTCATTTCTGTCCAAACCCTGGGGCTAGTT
66110 IS [TC] TTCTTGCCACTGGTCACAGGGGTTTTCTATAACTAGCCCCAGGGTTTGGACAGAAATGAA[TC]AGAATCATCCAAAATT ATAACCTGCTATGGACTGACCTTTGGGTAAACAGGCCTGGAAAA
66228 I A TGAGAGACATTTACAATCATAAATGTAAACAAAAAGTGAACTACCTATTATTATAGCATA
66228 P T A CGCGCCGAGGTACTGGCTTTGAGGAAATATTAY
66228 P C A ATGACGTGGCAGACCACTGGCTTTGAGGAAATY
66228 T T A TTTGTAATATTTCCTCAAAGCCAGTAATGCTATAATAATAGGTAGTTCACTTTTTGTTTACATTTATGATTGTAAATGTCT CTCAT
66228 T C A TTTGTAATATTTCCTCAAAGCCAGTGATGCTATAATAATAGGTAGTTCACTTTTTGTTTACATTTATGATTGTAAATGTCT CTCAT
66228 IS [TC] ATGAGAGACATTTACAATCATAAATGTAAACAAAAAGTGAACTACCTATTATTATAGCAT[TC]ACTGGCTTTGAGGAAAT ATTACAAAAGTCTCTAGGATAAACCAAAGCAATTGAGCCAGGT
66265 I S AGAATAAACAACTCATTGGCTTCAGACATTTAATTGTATGTATTTAACCAA
66265 P A S CGCGCCGAGGTACTCAGATAATTGTCATATTTAGCY
66265 P G S ATGACGTGGCAGACCACTCAGATAATTGTCATATTTAGCY
66265 T A S TTTGGCTAAATATGACAATTATCTGAGTATGGTTAAATACATACAATTAAATGTCTGAAGCCAATGAGTTGTTTATTCTA A
66265 T G S TTTGGCTAAATATGACAATTATCTGAGTGTGGTTAAATACATACAATTAAATGTCTGAAGCCAATGAGTTGTTTATTCTA A
66265 IS [AG] AATTTGGAAATAGGTCACAGAAAAAGCCTCCATTTGGCTAAATATGACAATTATCTGAGT[AG]TGGTTAAATACATACAA TTAAATGTCTGAAGCCAATGAGTTGTTTATTCTAACTTGAAAT
66295 I S GCAAGTTTGCCTCACCAGCAGGGCAA
66295 P G S ATGACGTGGCAGACCGTGGCAATTTGCCCY
66295 P A S CGCGCCGAGGTGTGGCAATTTGCCCY
66295 T G S CCTTGGGCAAATTGCCACGTGCCCTGCTGGTGAGGCAAACTTGCCA
66295 T A S CCTTGGGCAAATTGCCACATGCCCTGCTGGTGAGGCAAACTTGCCA
66295 IS [GA] ACAGGCTCTGGCTAAACTCGGCCCTCCTGGAGTGCCACAAGCCCTTGGGCAAATTGCCAC[GA]TGCCCTGCTGGTGA GGCAAACTTGCCAAACCTTAGAAATAATTCCACCCCTTACTCAAGG
67407 I A TCTGTACTCTGTTACTTAAATTCTACCTAGAGACTAGGAGTACCTAAT
67407 P C A CGCGCCGAGGCTGGGCTAAATAAAGAGACAAY
67407 P G A ATGACGTGGCAGACGTGGGCTAAATAAAGAGACAY
67407 T C A TTTCTTGTCTCTTTATTTAGCCCAGTTAGGTACTCCTAGTCTCTAGGTAGAATTTAAGTAACAGAGTACAGAGA
67407 T G A TTTCTTGTCTCTTTATTTAGCCCACTTAGGTACTCCTAGTCTCTAGGTAGAATTTAAGTAACAGAGTACAGAGA
67407 IS [CG] TCATGTGTATTTCTCTGTACTCTGTTACTTAAATTCTACCTAGAGACTAGGAGTACCTAA[CG]TGGGCTAAATAAAGAG ACAAGAAAAAGTAAGGTAATAAGTATTGGTTTCACCATCCTAGT
67446 I S AGGCAAGTCCCTTTTGTCAGCTGGGTGTCT
67446 P G S CGCGCCGAGGCTGGAACCAAGGGAATGY
67446 P C S ATGACGTGGCAGACGTGGAACCAAGGGAATGY
67446 T G S GCCTCATTCCCTTGGTTCCAGGACACCCAGCTGACAAAAGGGACTTGCCTGT
67446 T C S GCCTCATTCCCTTGGTTCCACGACACCCAGCTGACAAAAGGGACTTGCCTGT
67446 IS [GC] GGGTCTTCTGCTGCAACTCAGCCCCTCTGTACCAGCCCTGGCCTCATTCCCTTGGTTCCA[GC]GACACCCAGCTGAC AAAAGGGACTTGCCTGTACCCCTGCACCTGGTCCTACACCTGGCTC
67838 I S AGCCCAGAGGGAAGAGCTGAGAAGGTGTCT
67838 P C S ATGACGTGGCAGACGTGGAGGAGGGAACTGY
67838 P T S CGCGCCGAGGATGGAGGAGGGAACTGY
67838 T C S TCAGCAGTTCCCTCCTCCACGACACCTTCTCAGCTCTTCCCTCTGGGCTCC
67838 T T S TCAGCAGTTCCCTCCTCCATGACACCTTCTCAGCTCTTCCCTCTGGGCTCC
67838 IS [CT] ATGTCCTCCACCGCAAACACCCAAGCCCCCTTCTTGAGGGCTCAGCAGTTCCCTCCTCCA[CT]GACACCTTCTCAGCT CTTCCCTCTGGGCTCCAAAGCTCTTTGTTCTTGCTGTGGGATTTT
67920 I S GTTCCCAGGTATTATAGGAAATGGCCTGCCTCATGTA
67920 P G S ATGACGTGGCAGACCAATTGAAACAATGACCTATTAGCY
67920 P A S CGCGCCGAGGTAATTGAAACAATGACCTATTAGCY
67920 T G S ACGAGCTAATAGGTCATTGTTTCAATTGACATGAGGCAGGCCATTTCCTATAATACCTGGGAACAA
67920 T A S ACGAGCTAATAGGTCATTGTTTCAATTAACATGAGGCAGGCCATTTCCTATAATACCTGGGAACAA
67920 IS [GA] CTGTATCTTGTACTCATCTAGAAGGAGAGTAAGACGAGCTAATAGGTCATTGTTTCAATT[GA]ACATGAGGCAGGCCAT TTCCTATAATACCTGGGAACAATCAAATGGGATTTTAGGCAAGG
67994 I A GGTAAAAGGGTAAAAGAAGCATGAGAGATGGAGAGAAT
67994 P A A CGCGCCGAGGAAGAAATACAGTTGAGTTTCAATGY
67994 P C A ATGACGTGGCAGACCAGAAATACAGTTGAGTTTCAATY
67994 T A A TCAGCATTGAAACTCAACTGTATTTCTTTTCTCTCCATCTCTCATGCTTCTTTTACCCTTTTACCTT
67994 T C A TCAGCATTGAAACTCAACTGTATTTCTGTTCTCTCCATCTCTCATGCTTCTTTTACCCTTTTACCTT
67994 IS [AC] GTGGTGGTCAAAGGTTAGGTAAAGGTAAAAGGGTAAAAGAAGCATGAGAGATGGAGAGAA[AC]AGAAATACAGTTGAG TTTCAATGCTGATGCCACAGACTGGTTAATCACTTCTCAGATATG
68291 I A CTGTGGGGCCCGGGTTGCGT
68291 P G A ATGACGTGGCAGACGGGCGTCTGTTCTACTY
68291 P A A CGCGCCGAGGAGGCGTCTGTTCTACTCY
68291 T G A CAGTGAGTAGAACAGACGCCCCGCAACCCGGGCCCCACAGGG
68291 T A A CAGTGAGTAGAACAGACGCCTCGCAACCCGGGCCCCACAGGG
68291 IS [GA] GGGAGGACTCAGCCTCAGGGTCCCCACCTCAAGGGAGAGCCCTGTGGGGCCCGGGTTGCG[GA]GGCGTCTGTTCTA CTCACTGTCCTTGTGACCCGGGCTCCTGACCCAGCTGGGTCCTGCCC

FIGURE 129D

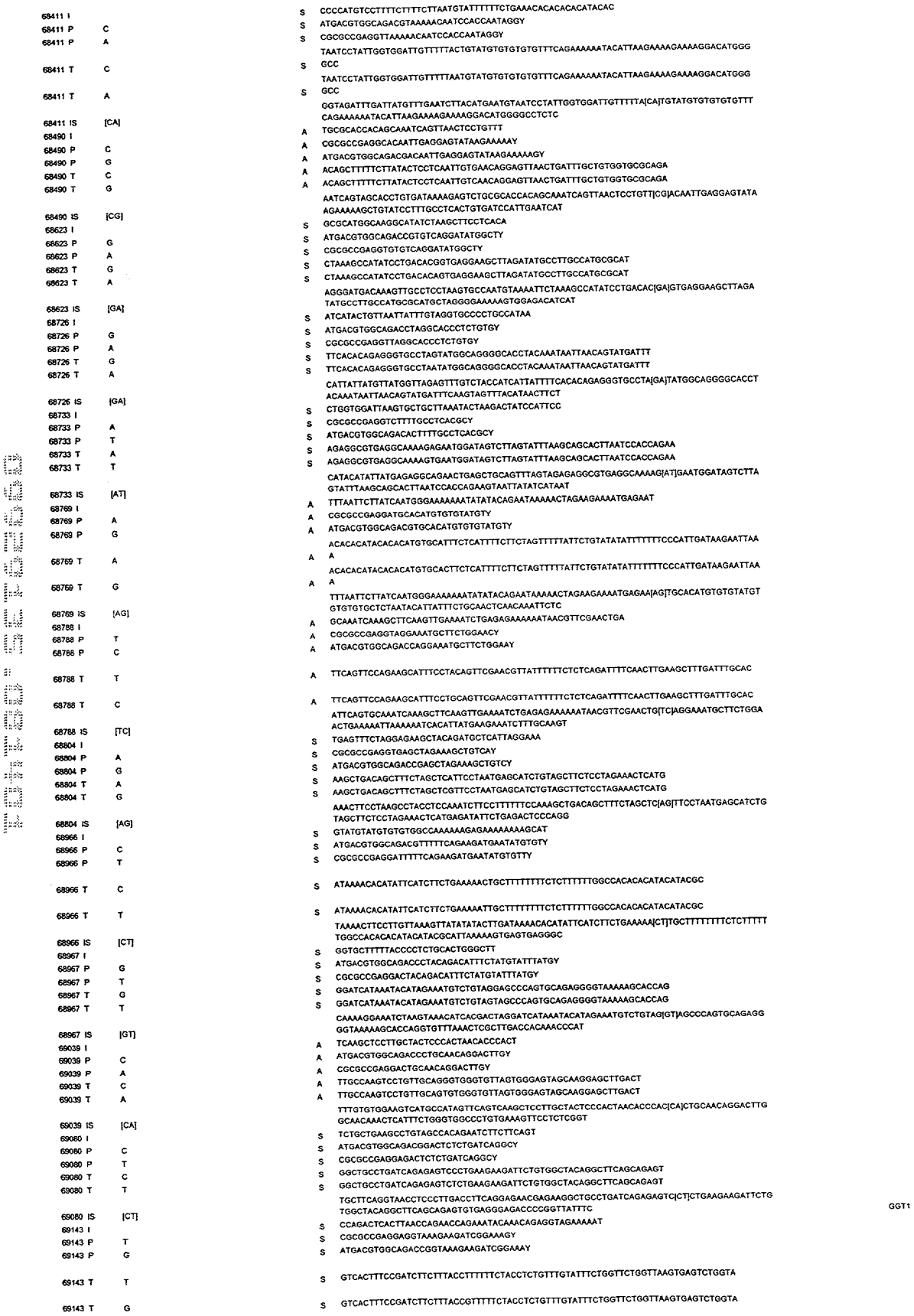


FIGURE 129D

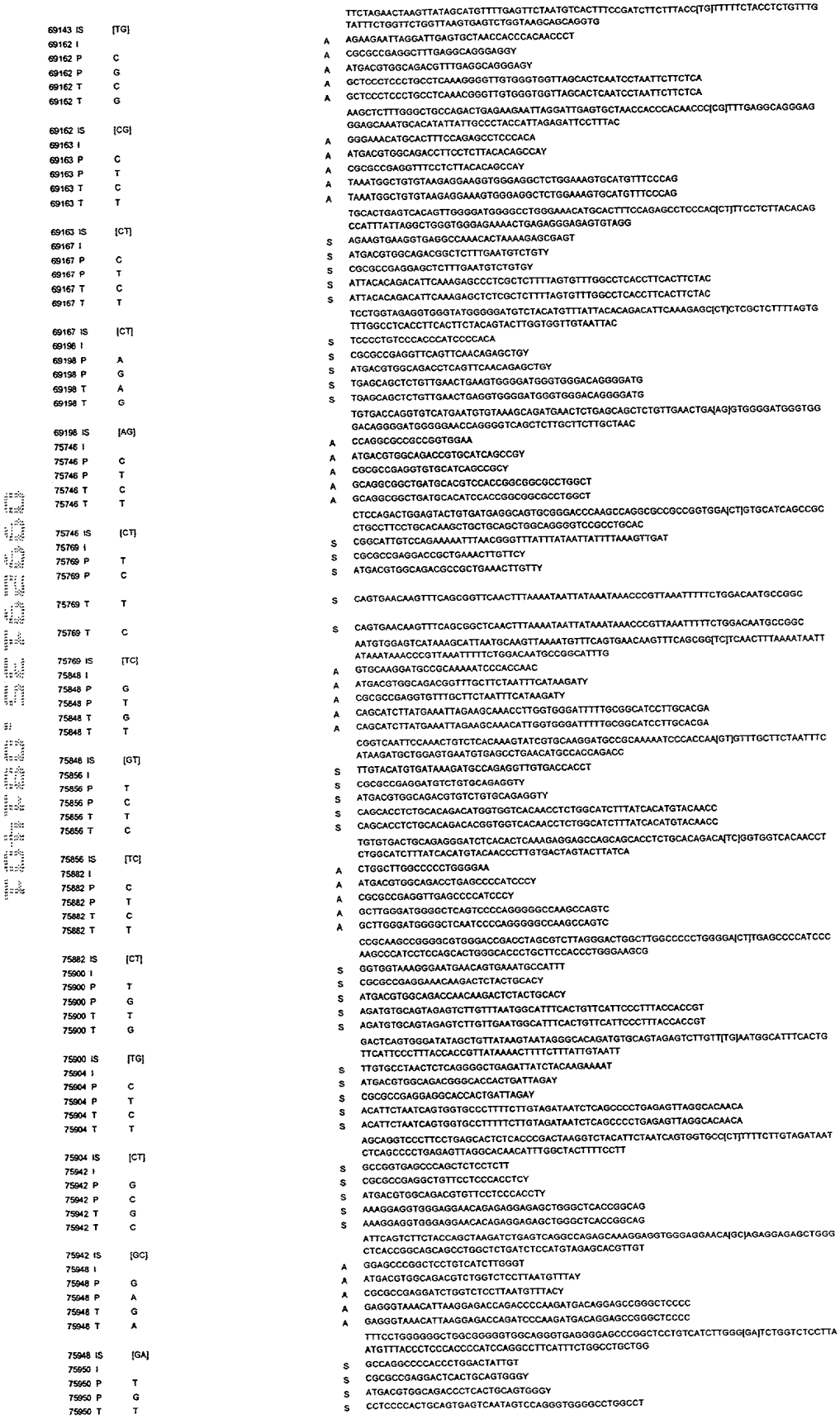

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69162 I
69162 P C
69162 P G
69162 T C
69162 T G
69162 IS [CG]
69163 I
69163 P C
69163 P T
69163 T C
69163 T T
69163 IS [CT]
69167 I
69167 P C
69167 P T
69167 T C
69167 T T
69167 IS [CT]
69198 I
69198 P A
69198 P G
69198 T A
69198 T G
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75746 I
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A CGCGCCGAGGTTTCCTCTTACACAGCCAY
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A GCAGGCGGCTGATGCACGTCCACCGGCGGCGCCTGGCT
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A GTGCAAGGATGCCGCAAAAATCCCACCAAC
A ATGACGTGGCAGACGGTTTGCTTCTAATTTCATAAGATY
A CGCGCCGAGGTGTTTGCTTCTAATTTCATAAGATY
A CAGCATCTTATGAAATTAGAAGCAAACCTTGGTGGGATTTTTGCGGCATCCTTGCACGA
A CAGCATCTTATGAAATTAGAAGCAAACATTGGTGGGATTTTTGCGGCATCCTTGCACGA
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S CGCGCCGAGGATGTCTGTGCAGAGGTY
S ATGACGTGGCAGACGTGTCTGTGCAGAGGTY
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S CGCGCCGAGGCTGTTCCTCCCACCTCY
S ATGACGTGGCAGACGTGTTCCTCCCACCTY
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S AAAGGAGGTGGGAGGAACACAGAGGAGAGCTGGGCTCACCGGCAG
ATTCAGTCTTCTACCAGCTAAGATCTGAGTCAGGCCAGAGCAAAGGAGGTGGGAGGAACA[GC]AGAGGAGAGCTGGG
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A ATGACGTGGCAGACGTCTGGTCTCCTTAATGTTTAY
A CGCGCCGAGGATCTGGTCTCCTTAATGTTTACY
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S GCCAGGCCCCACCCTGGACTATTGT
S CGCGCCGAGGACTCACTGCAGTGGGY
S ATGACGTGGCAGACCCTCACTGCAGTGGGY
S CCTCCCCACTGCAGTGAGTCAATAGTCCAGGGTGGGGCCTGGCCT

FIGURE 129D

75950	T	G	S	CCTCCCCACTGCAGTGAGGCAATAGTCCAGGGTGGGGCCTGGCCT	
75950	IS	[TG]		GAGTCCGGCCAGCCCTTGTGTTCCCGTGCCCCACACTTTCCTCCTCCCCACTGCAGTGAG[TG]CAATAGTCCAGGGT GGGGCCTGGCCTCCCTGCCCTGATTGGGGACTCAGGAGGTGAGGCC	PP1057
75957	I		A	GGCATGGTAGTTGCGATAGAAAGACATGGTCAAGAGACT	
75957	P	G	A	ATGACGTGGCAGACGGTTGAGGTAATTCTCCAGY	
75957	P	A	A	CGCGCCGAGGAGTTGAGGTAATTCTCCAGGY	
75957	T	G	A	AATACCTGGAGAATTACCTCAACCGTCTCTTGACCATGTCTTTCTATCGCAACTACCATGCCAT	
75957	T	A	A	AATACCTGGAGAATTACCTCAACTGTCTCTTGACCATGTCTTTCTATCGCAACTACCATGCCAT	
75957	IS	[GA]		ATCGGCCCCTGGACCTTACCATGGCATGGTAGTTGCGATAGAAAGACATGGTCAAGAGAC[GA]GTTGAGGTAATTCTC CAGGTATTTCTGAAGTGGAGATGAGAGAGAGAGAGACAGATGG	
75984	I		A	CAGTTGCTGTGATTTCTTAGAAATGGGATCTTAGGGCCTTT	
75984	P	C	A	CGCGCCGAGGCATTATGAGGTAGAGAAGAAAACAY	
75984	P	G	A	ATGACGTGGCAGACGATTATGAGGTAGAGAAGAAAACAY	
75984	T	C	A	GCAATGTTTTCTTCTCTACCTCATAATGAAGGCCCTAAGATCCCATTTCTAAGAAATCACAGCAACTGAT	
75984	T	G	A	GCAATGTTTTCTTCTCTACCTCATAATCAAGGCCCTAAGATCCCATTTCTAAGAAATCACAGCAACTGAT	
75984	IS	[CG]		AACACTAAAGGCAGAAAAATCAGTTGCTGTGATTTCTTAGAAATGGGATCTTAGGGCCTT[CG]ATTATGAGGTAGAGAA GAAAACATTGCTAGGAGAAATATTTAGCATTTAGTGACTGAAAA	
75991	I		S	CAGGGCCTCAGCGTGGCTATGCAGT	
75991	P	C	S	ATGACGTGGCAGACGCAGCGACTTGAGCY	
75991	P	T	S	CGCGCCGAGGACAGCGACTTGAGCCY	
75991	T	C	S	GGTGGGCTCAAGTCGCTGCCTGCATAGCCACGCTGAGGCCCTGCG	
75991	T	T	S	GGTGGGCTCAAGTCGCTGTCTGCATAGCCACGCTGAGGCCCTGCG	
75991	IS	[CT]		GGCCCCTGGCCGCTCGCTGATTGGTCTGTCGGGGGTCCTGACGGTGGGCTCAAGTCGCTG[CT]CTGCATAGCCACG CTGAGGCCCTGCGGGTGAGAGGCTGGGGCCACAGGAAGGCCGGCACG	
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76006	P	A	A	CGCGCCGAGGATATTCAGAGAGGGTTTTGGY	
76006	P	G	A	ATGACGTGGCAGACGTATTCAGAGAGGGTTTTGGY	
76006	T	A	A	ATATCCAAAACCCTCTCTGAATATTTCTTAGATAAGAATACAATATGTTAAAAGACAAACACCAATATACACAATCATATT TAT	
76006	T	G	A	ATATCCAAAACCCTCTCTGAATACTTCTTAGATAAGAATACAATATGTTAAAAGACAAACACCAATATACACAATCATATT TAT	
76006	IS	[AG]		ATAAATATGATTGTGTATATTGGTGTTTGTCTTTTAACATATTGTATTCTTATCTAAGAA[AG]TATTCAGAGAGGGTTTTG GATATTTGTTCATGTGTTCATTTTGATGCTTTGTTATTTACA	
76101	I		A	CCCTATTTCCAACCTGAAAAAGAGATAGAAGGTAACATTCTTGCTACAGAAT	
76101	P	A	A	CGCGCCGAGGATTCCCTGAGAAGTAATGGAY	
76101	P	G	A	ATGACGTGGCAGACGTTCCCTGAGAAGTAATGGY	
76101	T	A	A	TGAATCCATTACTTCTCAGGGAATTTCTGTAGCAAGAATGTTACCTTCTATCTCTTTTTCAGGTTGGAAATAGGGAA	
76101	T	G	A	TGAATCCATTACTTCTCAGGGAACTTCTGTAGCAAGAATGTTACCTTCTATCTCTTTTTCAGGTTGGAAATAGGGAA	
76101	IS	[AG]		GCATTCCTTCCCTATTTCCAACCTGAAAAAGAGATAGAAGGTAACATTCTTGCTACAGAA[AG]TTCCCTGAGAAGTAAT GGATTCATCAGCATTGACTGGAACACAGCAAGGCAGGCTGGAGT	
76103	I		A	GCCCTATAAAAACCCATTTCAAGGACCCCCACAA	
76103	P	C	A	ATGACGTGGCAGACCGGGTCTAAGATATCCCCY	
76103	P	T	A	CGCGCCGAGGTGGGTCTAAGATATCCCCY	
76103	T	C	A	CTGAGGGGATATCTTAGACCCGTGTGGGGGTCCTTGAAATGGGTTTTTATAGGGCTG	
76103	T	T	A	CTGAGGGGATATCTTAGACCCATGTGGGGGTCCTTGAAATGGGTTTTTATAGGGCTG	
76103	IS	[CT]		AGGCCAGTTTTATCCTAAACAGAACCAGCCCTATAAAAACCCATTTCAAGGACCCCCACA[CT]GGGTCTAAGATATCCC CTCAGGGTGCAAGGTTCCCACCGGGACCACTCTGGCAAGTTTTA	
76105	I		S	GCACATGATCATTGCAGCTGAAATGGAAAAGAGAGGAAAAAA	
76105	P	G	S	ATGACGTGGCAGACCAGGCCCATTCCAGAY	
76105	P	A	S	CGCGCCGAGGTAGGCCCATTCCAGAAAY	
76105	T	G	S	TTCCTTTCTGGAATGGGCCTGTTTTTCCTCTCTTTTCCATTTCAGCTGCAATGATCATGTGCTA	
76105	T	A	S	TTCCTTTCTGGAATGGGCCTATTTTTCCTCTCTTTTCCATTTCAGCTGCAATGATCATGTGCTA	
76105	IS	[GA]		ATACTAAATATAAATGATGGTTACACGGTGATGGCATTATTTCCTTTCTGGAATGGGCCT[GA]TTTTTCCTCTCTTTTCC ATTTCAGCTGCAATGATCATGTGCTACTTCTATAAAGATGAAC	
76130	I		S	CTGGACAGTTTTCATCAGAAGCCACGTCCTAGAGGC	
76130	P	A	S	CGCGCCGAGGTAGCGAGCTGTAAACAGTY	
76130	P	T	S	ATGACGTGGCAGACAAGCGAGCTGTAAACAGY	
76130	T	A	S	AACGACTGTTTACAGCTCGCTACCTCTAGGACGTGGCTTCTGATGAAAACTGTCCAGAC	
76130	T	T	S	AACGACTGTTTACAGCTCGCTTCCTCTAGGACGTGGCTTCTGATGAAAACTGTCCAGAC	
76130	IS	[AT]		CTTCCTGGGCCCACCCTAACACATTCCTCCGTTGCTTTTAACGACTGTTTACAGCTCGCT[AT]CCTCTAGGACGTGGC TTCTGATGAAAACTGTCCAGACGCTCTGCCTCCGGTGTAATTCAG	
76213	I		A	GGTAGGTTGATTCACCTTAGTTTTAGTTGTAGAAGTAGTAAAGTTAAACAAA	
76213	P	C	A	ATGACGTGGCAGACCGGGACAAAAATCTAAGGAY	
76213	P	T	A	CGCGCCGAGGTGGGACAAAAATCTAAGGACY	
76213	T	C	A	CCTTGTCCTTAGATTTTTGTCCCGTTGTTTAACTTTACTACTTCTACAACTAAAACTAAGGTGAATCAACCTACCTT	
76213	T	T	A	CCTTGTCCTTAGATTTTTGTCCCATTGTTTAACTTTACTACTTCTACAACTAAAACTAAGGTGAATCAACCTACCTT	
76213	IS	[CT]		GTCAATAAAGGTAGGTTGATTCACCTTAGTTTTAGTTGTAGAAGTAGTAAAGTTAAACAA[CT]GGGACAAAAATCTAAG GACAAGGTGGTTTATATCTGTTTGTATTTCTCTCAGATCATTTG	
76223	I		A	GGAGGAGGAAATCGGGGTGAGCTGTTGAGC	
76223	P	T	A	CGCGCCGAGGTGGAGAGTGGATTAGTCCY	
76223	P	A	A	ATGACGTGGCAGACAGGAGAGTGGATTAGTCCY	
76223	T	T	A	CCTTGGACTAATCCACTCTCCACTCAACAGCTCACCCCGATTTCCTCCTCCAC	
76223	T	A	A	CCTTGGACTAATCCACTCTCCTCTCAACAGCTCACCCCGATTTCCTCCTCCAC	
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76336	P	G	S	ATGACGTGGCAGACCGTAGCCAGATGGTATAGAY	
76336	P	T	S	CGCGCCGAGGAGTAGCCAGATGGTATAGAAY	
76336	T	G	S	TCATTTCTATACCATCTGGCTACGAGAGGAGCCGACTGAAAGTCACACTGCCGG	
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76337	P	G	A	ATGACGTGGCAGACGGTGCCGACAGTTCTY	
76337	P	A	A	CGCGCCGAGGAGTGCCGACAGTTCTY	
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76337	T	A	A	TTCCAGAACTGTCGGCACTGCAGCATTATTATCACTGCAGCTACCACTGGAGATGGCT	
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76465	P	C	S	ATGACGTGGCAGACGGGCAGAGGAAGAGGY	
76465	P	A	S	CGCGCCGAGGTGGCAGAGGAAGAGGY	
76465	T	C	S	CCCCCCTCTTCCTCTGCCCAGCCCCCAGACCTCTCCAGTCCACCG	

76465	T	A	S	CCCCCCTCTTCCTCTGCCAAGCCCCCAGACCTCTCCAGTCCACCG	
76465	IS	[CA]		CTGGCCCCCACACTTCTCAGGATGCACAGCCCTTGGCTCAAACCCCCCTCTTCCTCTGCC[CA]AGCCCCCAGACCTC TCCAGTCCACCGCGACACCCCTCACACACGCACCTTCGTGCACGTG	
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76498	P	G	A	ATGACGTGGCAGACGCGTTTTCTCCATTTTTGAAY	
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76503	P	A	S	CGCGCCGAGGTTGATTTGGGAGCTAGATGY	
76503	P	C	S	ATGACGTGGCAGACGTGATTTGGGAGCTAGATGY	
76503	T	A	S	GCCCCATCTAGCTCCCAAATCAACCCCGCTACTTCCGAGTTTCCCTGGTGTT	
76503	T	C	S	GCCCCATCTAGCTCCCAAATCACCCCCGCTACTTCCGAGTTTCCCTGGTGTT	
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76546	P	C	A	ATGACGTGGCAGACCTGCCAAGGACACGAY	
76546	T	T	A	GCCCTCGTGTCCTTGGCAACCGCTGCACTCCTGGGGCACATCCT	
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29006	P	g	S	ATGACGTGGCAGACCCCACTCGTGACTCAT	
29006	P	t	S	CGCGCCGAGGACCACTCGTGACTCATT	
29006	T	g	S	CCTGAATGAGTCACGAGTGGGTGCCTGTGATCCCACCCCCAACCCT	
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29026	P	c	A	CGCGCCGAGGCCTTACTCTGATACTTTCCAC	
29026	P	g	A	ATGACGTGGCAGACGCTTACTCTGATACTTTCCAC	
29026	T	c	A	GCATGTGGAAAGTATCAGAGTAAGGCTCTCCCCTCCAGAGCCCTGAGTTTCTTGGCT	
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29038	T	a	A	TCTTGCAAATCAGGCCTTCATGGACATTTAGCAAACCATCTCCACCATCACTGAGGAGA	
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FIGURE 129D

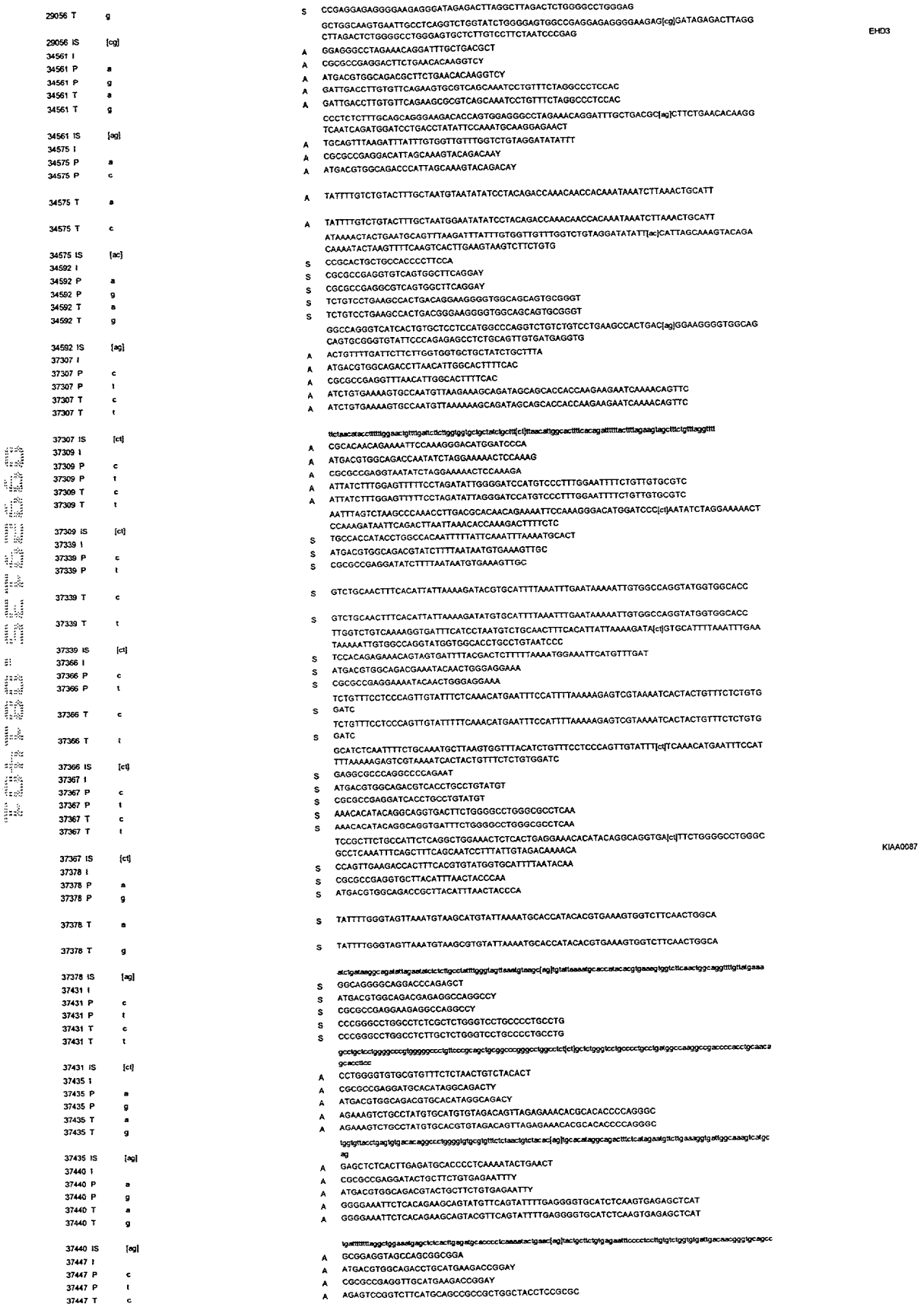

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FIGURE 129D

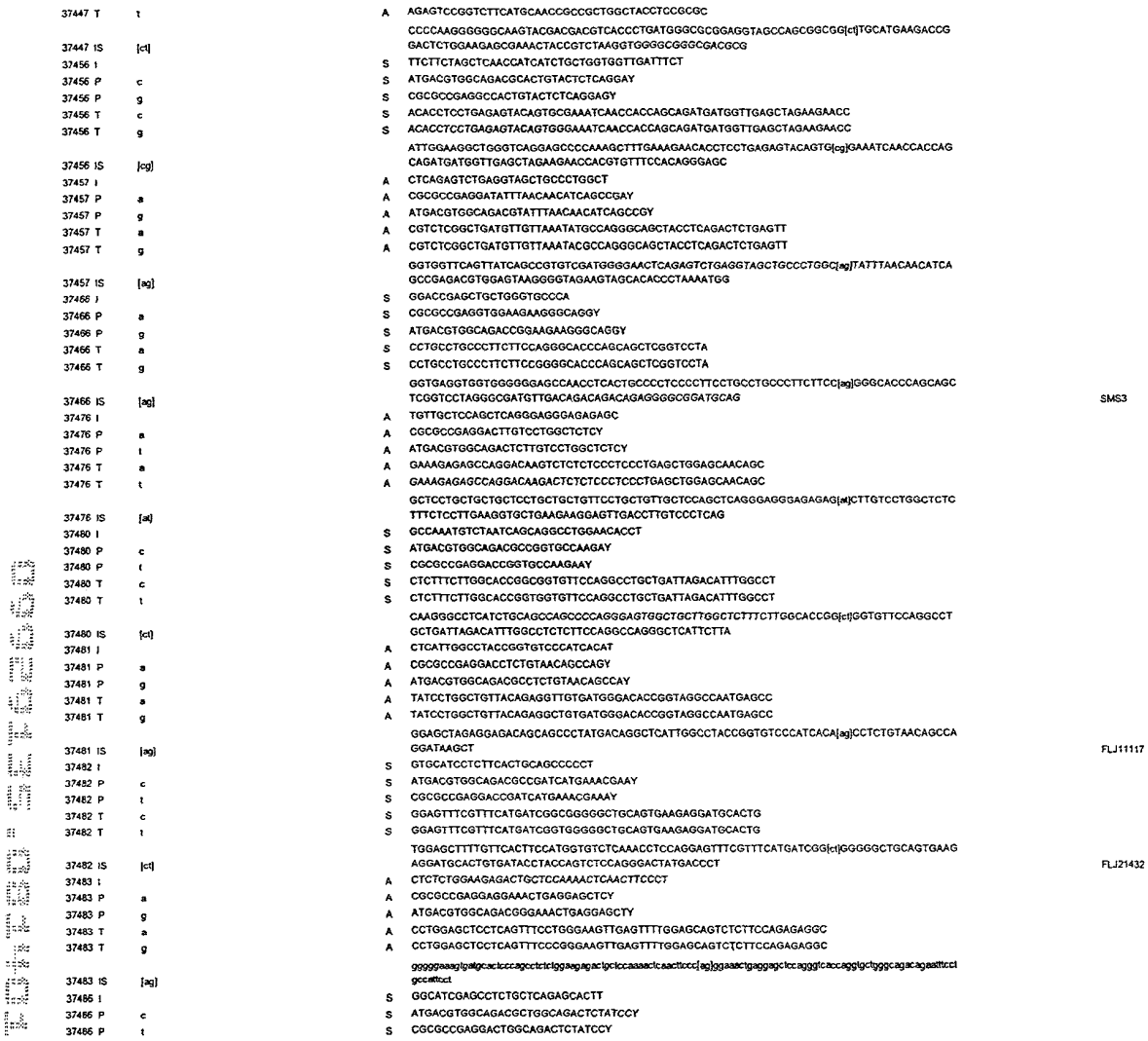


FIGURE 129D

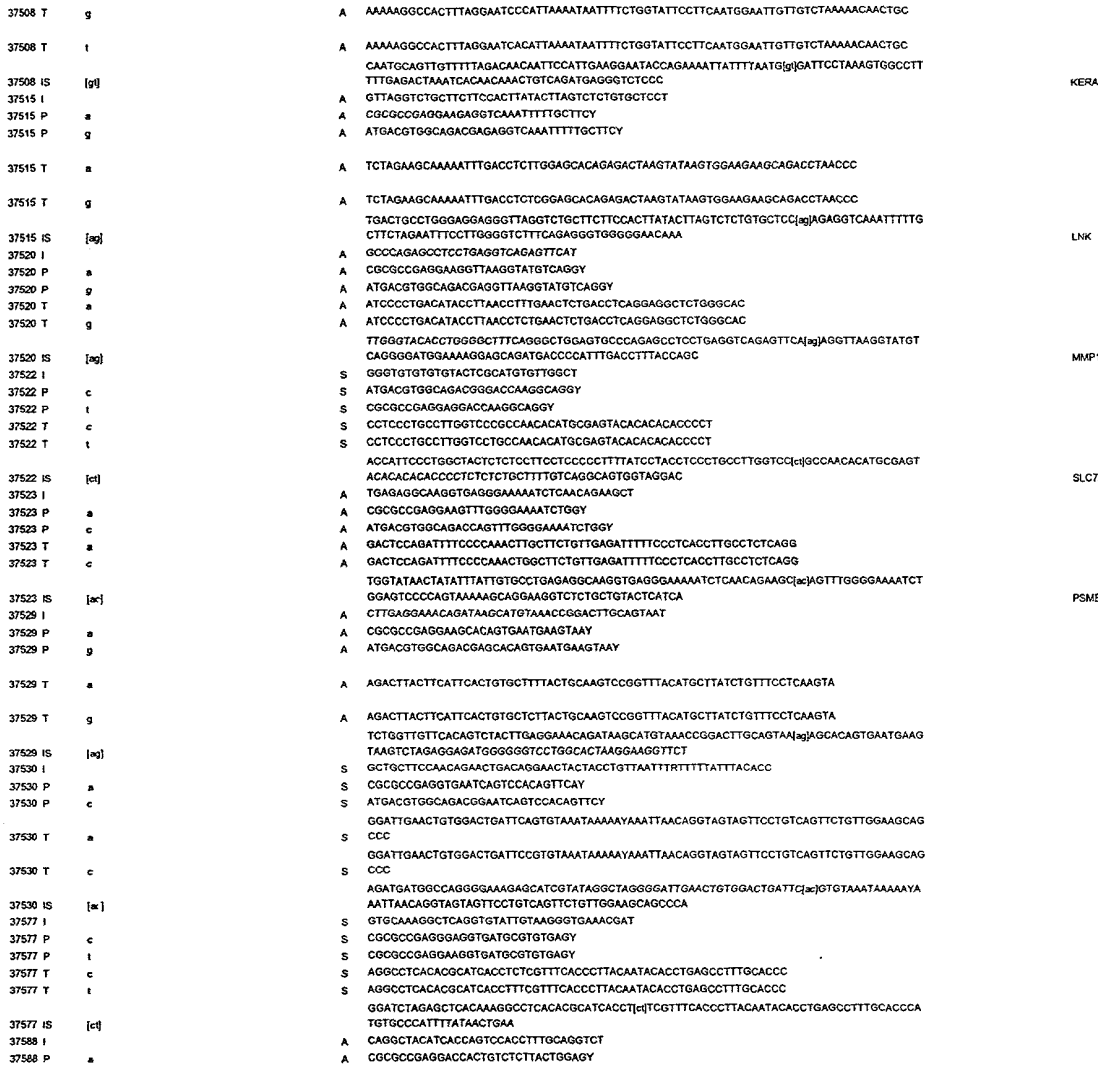

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37522 I S GGGTGTGTGTGTACTCGCATGTGTTGGCT
37522 P c S ATGACGTGGCAGACGGGACCAAGGCAGGY
37522 P t S CGCGCCGAGGAGGACCAAGGCAGGY
37522 T c S CCTCCCTGCCTTGGTCCCGCCAACACATGCGAGTACACACACACCCCT
37522 T t S CCTCCCTGCCTTGGTCCTGCCAACACATGCGAGTACACACACACCCCT
37522 IS [ct] ACCATTCCCTGGCTACTCTCTCCTTCCTCCCCCTTTTATCCTACCTCCCTGCCTTGGTCC[ct]GCCAACACATGCGAGT ACACACACACCCCTCTCTCTGCTTTTGTCAGGCAGTGGTAGGAC SLC7A8
37523 I A TGAGAGGCAAGGTGAGGGAAAAATCTCAACAGAAGCT
37523 P a A CGCGCCGAGGAAGTTTGGGGAAAATCTGGY
37523 P c A ATGACGTGGCAGACCAGTTTGGGGAAAATCTGGY
37523 T a A GACTCCAGATTTTCCCCAAACTTGCTTCTGTTGAGATTTTTCCCTCACCTTGCCTCTCAGG
37523 T c A GACTCCAGATTTTCCCCAAACTGGCTTCTGTTGAGATTTTTCCCTCACCTTGCCTCTCAGG
37523 IS [ac] TGGTATAACTATATTTATTGTGCCTGAGAGGCAAGGTGAGGGAAAAATCTCAACAGAAGC[ac]AGTTTGGGGAAAATCT GGAGTCCCCAGTAAAAAGCAGGAAGGTCTCTGCTGTACTCATCA PSME1
37529 I A CTTGAGGAAACAGATAAGCATGTAAACCGGACTTGCAGTAAT
37529 P a A CGCGCCGAGGAAGCACAGTGAATGAAGTAAY
37529 P g A ATGACGTGGCAGACGAGCACAGTGAATGAAGTAAY
37529 T a A AGACTTACTTCATTCACTGTGCTTTTACTGCAAGTCCGGTTTACATGCTTATCTGTTTCCTCAAGTA
37529 T g A AGACTTACTTCATTCACTGTGCTCTTACTGCAAGTCCGGTTTACATGCTTATCTGTTTCCTCAAGTA
37529 IS [ag] TCTGGTTGTTCACAGTCTACTTGAGGAAACAGATAAGCATGTAAACCGGACTTGCAGTAA[ag]AGCACAGTGAATGAAG TAAGTCTAGAGGAGATGGGGGGTCCTGGCACTAAGGAAGGTTCT
37530 I S GCTGCTTCCAACAGAACTGACAGGAACTACTACCTGTTAATTTRTTTTTATTTACACC
37530 P a S CGCGCCGAGGTGAATCAGTCCACAGTTCAY
37530 P c S ATGACGTGGCAGACGGAATCAGTCCACAGTTCY
37530 T a S GGATTGAACTGTGGACTGATTCAGTGTAAATAAAAAYAAATTAACAGGTAGTAGTTCCTGTCAGTTCTGTTGGAAGCAG CCC
37530 T c S GGATTGAACTGTGGACTGATTCCGTGTAAATAAAAAYAAATTAACAGGTAGTAGTTCCTGTCAGTTCTGTTGGAAGCAG CCC
37530 IS [ac] AGATGATGGCCAGGGGAAAGAGCATCGTATAGGCTAGGGGATTGAACTGTGGACTGATTC[ac]GTGTAAATAAAAAYA AATTAACAGGTAGTAGTTCCTGTCAGTTCTGTTGGAAGCAGCCCA
37577 I S GTGCAAAGGCTCAGGTGTATTGTAAGGGTGAAACGAT
37577 P c S CGCGCCGAGGGAGGTGATGCGTGTGAGY
37577 P t S CGCGCCGAGGAAGGTGATGCGTGTGAGY
37577 T c S AGGCCTCACACGCATCACCTCTCGTTTCACCCTTACAATACACCTGAGCCTTTGCACCC
37577 T t S AGGCCTCACACGCATCACCTTTCGTTTCACCCTTACAATACACCTGAGCCTTTGCACCC
37577 IS [ct] GGATCTAGAGCTCACAAAGGCCTCACACGCATCACCT[ct]TCGTTTCACCCTTACAATACACCTGAGCCTTTGCACCCA TGTGCCCATTTTATAACTGAA
37588 I A CAGGCTACATCACCAGTCCACCTTTGCAGGTCT
37588 P a A CGCGCCGAGGACCACTGTCTCTTACTGGAGY
37588 P g A CGCGCCGAGGGCCACTGTCTCTTACTGGAY
37588 T a A CTGCCTCCAGTAAGAGACAGTGGTGACCTGCAAAGGTGGACTGGTGATGTAGCCTGAT
37588 T g A CTGCCTCCAGTAAGAGACAGTGGCGACCTGCAAAGGTGGACTGGTGATGTAGCCTGAT
37588 IS [ag] TTTGCATGTCAGACTTTACAACCTGAATCAGGCTACATCACCAGTCCACCTTTGCAGGTC[ag]CCACTGTCTCTTACTG GAGGCAGGCCGGATCACTGCTCATAGGTAATTTTGTGAAGAAGC
37601 I A CCACCTCCTCAGGTCCTCCATGCATCACTGT
37601 P c A CGCGCCGAGGCTGTCAGAGAGATTCCAGCTY
37601 P g A CGCGCCGAGGGTGTCAGAGAGATTCCAGCTY
37601 T c A GAGGAGCTGGAATCTCTCTGACAGCAGTGATGCATGGAGGACCTGAGGAGGTGGGA
37601 T g A GAGGAGCTGGAATCTCTCTGACACCAGTGATGCATGGAGGACCTGAGGAGGTGGGA
37601 IS [cg] TCCAAATGCAGGGACTGAGAGCCATTCATCCCACCTCCTCAGGTCCTCCATGCATCACTG[cg]TGTCAGAGAGATTCC AGCTCCTCTCCAATGCTCATCAAAGATATGAGAGAGATGAATGCA
37608 I A CCCCACTACCTCTTATTTTTTAACCACGACRTTGTGGGAAATGTTTGTCT
37608 P a A CGCGCCGAGGACTCCAAAACTGTGGAATTTTGY
37608 P g A CGCGCCGAGGGCTCCAAAACTGTGGAATTTTGY
37608 T a A ATGGCAAAATTCCACAGTTTTGGAGTGACAAACATTTCCCACAAYGTCGTGGTTAAAAAATAAGAGGTAGTGGGGAG
37608 T g A ATGGCAAAATTCCACAGTTTTGGAGCGACAAACATTTCCCACAAYGTCGTGGTTAAAAAATAAGAGGTAGTGGGGAG
37608 IS [ag] catcttaacicccactacctctatttttaaccacgacRttgtgggaaatgtttgtc[ag]ctccaaaactgtggaatttgccatctaaaatgtagcagctttgggggaaattactttt
37609 I S GCCCCTGCTGGGAGAGGGAACTGGT
37609 P c S CGCGCCGAGGGATGCCACACAAGGCAAY
37609 P t S CGCGCCGAGGAATGCCACACAAGGCAAY
37609 T c S GGCCTTGCCTTGTGTGGCATCCCAGTTCCCTCTCCCAGCAGGGGCCA
37609 T t S GGCCTTGCCTTGTGTGGCATTCCAGTTCCCTCTCCCAGCAGGGGCCA
37609 IS [ct] CGTTCCGAGGCAGCAGCAGCAGAGGGGAAGGAAGGAAGCAGGCCTTGCCTTGTGTGGCAT[ct]CCAGTTCCCTCTCC CAGCAGGGGCCAGATTCCCCTTCCTTAGCTTCAACTACAATTTGGC
37614 I S CCAGGCCACTCCCCAAGGATGGTGCT
37614 P c S CGCGCCGAGGGTCCCTGCCCTTCTAGGY
37614 P t S CGCGCCGAGGATCCCTGCCCTTCTAGGY
37614 T c S GCCTCCTAGAAGGGCAGGGACGCACCATCCTTGGGGAGTGGCCTGGAG
37614 T t S GCCTCCTAGAAGGGCAGGGATGCACCATCCTTGGGGAGTGGCCTGGAG
37614 IS [ct] GCAGAGGTGCGTGTTGATGAGTGGGTCGCACCAGGGTGGAGCCTCCTAGAAGGGCAGGGA[ct]GCACCATCCTTGGG GAGTGGCCTGGAGAGGCCTCGGGAAGGGGGTCCAGGGTGGCTGAGC
37617 I A GCCTGTGTCTGGAATTCTTCGTCCTGAGGCCT

FIGURE 129D

37617	P	a	A	CGCGCCGAGGACCTGAGTGTGGTCTGTCY	
37617	P	g	A	CGCGCCGAGGGCCTGAGTGTGGTCTGTY	
37617	T	a	A	*CCAGGACAGACCACACTCAGGTGGCCT*CAGGACGAAGAATTCCAGACACAGGCTG	
37617	T	g	A	CCAGGACAGACCACACTCAGGCGGCCTCAGGACGAAGAATTCCAGACACAGGCTG	
37617	IS	[ag]		CCTTAGCGCCAGGTAGAGGGCCCTGGGCAGCCTGTGTCTGGAATTCTTCGTCCTGAGGCC[ag]CCTGAGTGTGGTCT GTCCTGGGGAGGCTGTGCGCCTCAGCAGCCGTCCTGACGCTGAGCC	
37631	I		A	GCCTTCTGAGTGAGGCAGCAGGCATGTGT	
37631	P	a	A	CGCGCCGAGGAACACCACACCCAGGGY	
37631	P	g	A	CGCGCCGAGGGACACCACACCCAGGGY	
37631	T	a	A	GCATCCCTGGGTGTGGTGTTCACATGCCTGCTGCCTCACTCAGAAGGCCC	
37631	T	g	A	GCATCCCTGGGTGTGGTG*TCCACATGCCTGC*TGCCTCACTCAGAAGGCCC	
37631	IS	[ag]		AACAACAGAGGGTGGGGTCTGGGGACAGAAGGGCCTTCTGAGTGAGGCAGCAGGCATGTG[ag]ACACCACACCCAG GGATGCACGGGGGGTGGGGAAGGGGCCTGGCAGAAGGGCAGGTGCTT	
37635	I		S	GCCTTCAAAACACGAGGCACTCTTGGATCTAA	
37635	P	a	S	CGCGCCGAGGTCCTGAGTATCCTCCAAACTGY	
37635	P	g	S	CGCGCCGAGGCCCTGAGTATCCTCCAAACTY	
37635	T	a	S	TCCACAGTTTGGAGGATACTCAGGATAGATCCAAGAGTGCCTCGTGTTTTGAAGGCTT	
37635	T	g	S	TCCACAGTTTGGAGGATACTCAGGGTAGATCCAAGAGTGCCTCGTGTTTTGAAGGCTT	
37635	IS	[ag]		tcagaggggagaaatgcttgtctcactaaaactgtatccacagtttggaggatactcagg[ag]tagatccaagagtgcctcgtgtttgaaggctttgatttgaggagtttggggtggaa gt	GRIN2A
37808	I		S	CTCCTATGGTGAGGAACAAATTCGTTTTTACAGCAAT	
37808	P	g	S	ATGACGTGGCAGACCTATCAACAGGTGAAAGCCY	
37808	P	t	S	CGCGCCGAGGATATCAACAGGTGAAAGCCY	
37808	T	g	S	*CTGAGGCTTT*CACCTGTTGATAGTTGCTGTAAAAACGAATTTGTTCCTCACCATAGGAGCT	
37808	T	t	S	CTGAGGCTTTCACCTGTTGATATTTGCTGTAAAAACGAATTTGTTCCTCACCATAGGAGCT	
37808	IS	[gt]		AGTCAAAACCTAAGTACCCTGAAGGAGTCAGGGACAAACTGAGGCTTTCACCTGTTGATA[gt]TTGCTGTAAAAACGAA TTTGTTCCTGACCATAGGAGCTAAATTATTTGGTCGCTAATTTA	
37824	I		A	CCTGGCTCTCTCTAGCCCTTGCCAGCC	
37824	P	a	A	CGCGCCGAGGAGCCCACATTCCTGCY	
37824	P	t	A	ATGACGTGGCAGACTGCCCACATTCCTGCY	
37824	T	a	A	CCCAGCAGGAATGTGGGCTGCTGGCAAGGGCTAGAGAGAGCCAGGAG	
37824	T	t	A	*CCCAGCAGGAATGTGGGCAGCT*GGCAAGGGCTAGAGAGAGCCAGGAG	
37824	IS	[at]		atctgttccccggcctcctcccctgcctcctctctggcctctctagcccttgccagc[at]gcccacattccctgcttggtgctttccctgattttcccctgccccgtccccccacccgcacct ta	
37827	I		A	GGCGATCCGGTTACCCTCAGCAATGCA	
37827	P	c	A	ATGACGTGGCAGACCGAGACATTCTGGAGGCY	
37827	P	t	A	CGCGCCGAGGTGAGACATTCTGGAGGCY	
37827	T	c	A	GAGCGCCTCCAGAATGTCTCGGCATTGCTGAGGGTAACCGGATCGCCGC	
37827	T	t	A	GAGCGCCTCCAGAATGTCTCAGCATTGCTGAGGGTAACCGGATCGCCGC	
37827	IS	[ct]		TGGGAGGTTCTGAGGCTGCCTGCTGGATCTGAGCGGCGAT*CCGGTTACCCTCAGCAATGC*[ct]GAGACATTCTGGAG GCGCTCATGCCCCAACTGCTGTCCATCCGGAGCCAGGGGATGGCAC	
37873	I		A	GTGCATGGCCCTGGGCTGGACAA	
37873	P	c	A	ATGACGTGGCAGACCAGATGCAGCAGGTGY	
37873	P	t	A	CGCGCCGAGGTAGATGCAGCAGGTGGY	
37873	T	c	A	ATTCCCACCTGCTGCATCTGTGTCCAGCCCAGGGCCATGCACCC	
37873	T	t	A	ATTCCCACCTGCTGCATCTATGTCCAGCCCAGGGCCATGCACCC	
37873	IS	[ct]		CACTACAGAATCTGAGAGCACTGTCAGAGCTCCAAAGGGTGCATGGCCCTGGGCTGGACA[ct]AGATGCAGCAGGTG GGAATGAACTCTGCTCCCTAGCCACCACCTGCTCCTCTGGTACTCA	
37878	I		A	GGAGCTTGAGAGGAGAGGATTTTTAGGGCTGGAA	
37878	P	c	A	ATGACGTGGCAGACCTGCCTCAGTCTGCAY	
37878	P	t	A	CGCGCCGAGGTTGCCTCAGTCTGCAY	
37878	T	c	A	ACTGTGCAGACTGAGGCAGTCCAGCCCTAAAAATCCTCTCCTCTCAAGCTCCTG	
37878	T	t	A	ACTGTGCAGACTGAGGCAATCCAGCCCTAAAAATCCTCTCCTCTCAAGCTCCTG	
37878	IS	[ct]		gttctgcccctcactagagtcccgtccaggagcttgagaggagaggatttttagggctggat[ct]tgcctcagtctgcacagtaataagttgagttagacacagtggacatgaggacctg gactc	
37887	I		S	TGACCAGTGGCCGCCCCCCT	
37887	P	c	S	ATGACGTGGCAGACGCGTTGTTGAATGTCCAY	
37887	P	t	S	CGCGCCGAGGACGTTGTTGAATGTCCAGY	
37887	T	c	S	ATTTCTGGACATTCAACAACGCGGGGGGCGGCCACTGGTCAGA	
37887	T	t	S	ATTTCTGGACATTCAACAACGTGGGGGGCGGCCACTGGTCAGA	
37887	IS	[ct]		*AGGGATAAACTGCATT7GT*AAAAGGCACTGTTCTTAGCAATTTCTGGACATTCAACAACG[ct]GGGGGGCGGCCACTGG TCAGAGGCAGGACAGCAGCCAAGATGGGGAGAGAAACGGGGAGA	ZNF144
41003	I		S	ACCCCCATGAGATATCTATAATAACAACCTCTCTCAGCCTCATT	
41003	P	g	S	ATGACGTGGCAGACCTATAGAATGCAGTAGTTCTTTCAY	
41003	P	t	S	CGCGCCGAGGATATAGAATGCAGTAGTTCTTTCAY	
41003	T	g	S	TCTATGAAAGAACTACTGCATTCTATAGATGAGGCTGAGAGAGGTTGTTATTATAGATATCTCATGGGGGTGA	
41003	T	t	S	*TC*TATGAAAGAACTACTGCATTCTATATATGAGGCTGAGAGAGGTTGTTATTATAGATATCTCATGGGGGTGA	
41003	IS	[gt]		TCCATGAATTATGTAATTAAAAATTCATGCAACTCTATGAAAGAACTACTGCATTCTATA[gt]ATGAGGCTGAGAGAGGTT GTTATTATAGATATCTCATGGGGGTGAAGCTTGCCAGAACCA	
41005	I		S	CCAAGCTGTTGTGTATGACCAAGGATACCAACTAAT	
41005	P	c	S	ATGACGTGGCAGACGGTGTGATTTCCAAGCTTY	
41005	P	t	S	CGCGCCGAGGAGTGTGATTTCCAAGCTTCY	
41005	T	c	S	CAAAGAAGCTTGGAAATCACACCTTAGTTGGTATCCTTGGTCATACACAACAGCTTGGAA	
41005	T	t	S	CAAAGAAGCTTGGAAATCACACTTTAGTTGGTATCCTTGGTCATACACAACAGCTTGGAA	
41005	IS	[ct]		tctggaggggaagcaaaaaggtaaagtgcttacaactcaaagaagcttggaaatcacac[ct]ttagttggtatccttggtcatacacaacagcttggaataagaataaggaaccttt acctt	
41010	I		A	GCCTTCTCATCTTCATCACGGATGAGATAAAATATACACAGAAGCCT	
41010	P	a	A	CGCGCCGAGGACACAGTAATAATGGCTAACATY	
41010	P	g	A	ATGACGTGGCAGACGCACAGTAATAATGGCTAACAY	
41010	T	a	A	TCAAATGTTAGCCATTATTACTGTGTGGCTTCTGTGTATATTTTATCTCATCCGTGATGAAGATGAGAAGGCAA	
41010	T	g	A	TCAAA*TGTT*AGCCATTATTACTGTGCGGCTTCTGTGTATATTTTATCTCATCCGTGATGAAGATGAGAAGGCAA	
41010	IS	[ag]		CAGGAGCAGCCCTTGCCTTCTCATCTTCATCACGGATGAGATAAAATATACACAGAAGCC[ag]CACAGTAATAATGGCT AACATTTGAATGCTTACAATATGCCAGGTACTGTTCTAAGCACT	
41011	I		S	CCTCTAGTCAATGATTGCCAC*TTCT*CAGC*TATGGATT*AAAGAGT*CT*	
41011	P	c	S	ATGACGTGGCAGACGTCATTGCTCCAACTATCCY	
41011	P	t	S	CGCGCCGAGGATCATTGCTCCAACTATCCY	
41011	T	c	S	AGAGGGATAGTTGGAGCAATGACGACTCTTTAATCCATAGCTGAGAAGTGGCAATCATTGACTAGAGGTA	
41011	T	t	S	AGAGGGATAGTTGGAGCAATGATGACTCTTTAATCCATAGCTGAGAAGTGGCAATCATTGACTAGAGGTA	
41011	IS	[ct]		TGCAAGTGACACACTCTAAAATAGATTTTCCATGAGTAAGAGGGATAGTTGGAGCAATGA[ct]GACTCTTTAATCCATAG CTGAGAAGTGGCAATCATTGACTAGAGGTAGCTACATAAT7GG	
41013	I		S	GCACCATCCTCCCCCAAGGCCCT	
41013	P	c	S	ATGACGTGGCAGACGTGCTGGCCTCTGTY	
41013	P	g	S	CGCGCCGAGGCTGCTGGCCTCTGTY	

FIGURE 129D

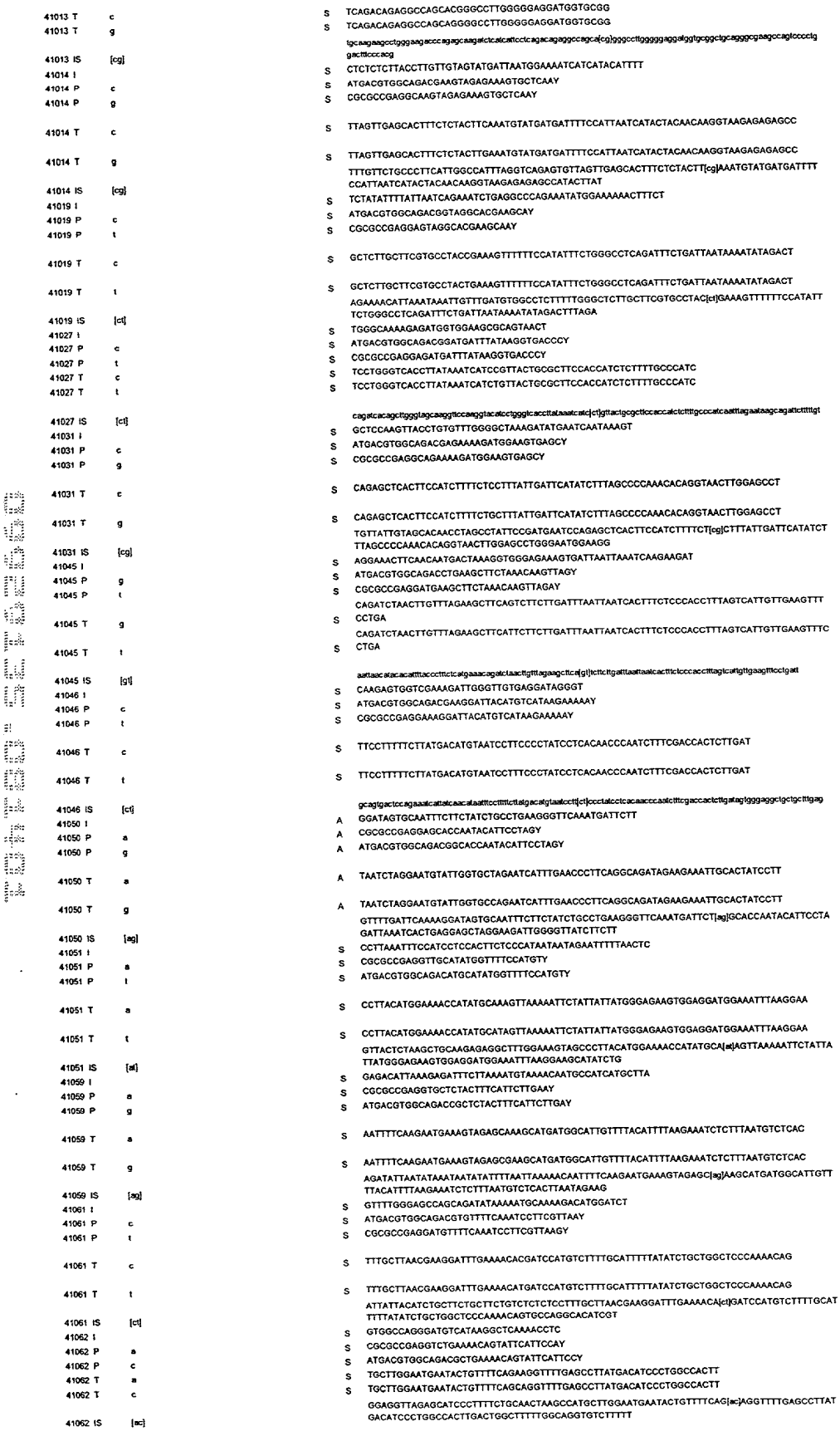

41013 T c
41013 T g
41013 IS [cg]
41014 I
41014 P c
41014 P g
41014 T c
41014 T g
41014 IS [cg]
41019 I
41019 P c
41019 P t
41019 T c
41019 T t
41019 IS [ct]
41027 I
41027 P c
41027 P t
41027 T c
41027 T t
41027 IS [ct]
41031 I
41031 P c
41031 P g
41031 T c
41031 T g
41031 IS [cg]
41045 I
41045 P g
41045 P t
41045 T g
41045 T t
41045 IS [gt]
41046 I
41046 P c
41046 P t
41046 T c
41046 T t
41046 IS [ct]
41050 I
41050 P a
41050 P g
41050 T a
41050 T g
41050 IS [ag]
41051 I
41051 P a
41051 P t
41051 T a
41051 T t
41051 IS [at]
41059 I
41059 P a
41059 P g
41059 T a
41059 T g
41059 IS [ag]
41061 I
41061 P c
41061 P t
41061 T c
41061 T t
41061 IS [ct]
41062 I
41062 P a
41062 P c
41062 T a
41062 T c
41062 IS [ac]
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S TCAGACAGAGGCCAGCAGGGGCCTTGGGGGAGGATGGTGCGG
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S CTCTCTCTTACCTTGTTGTAGTATGATTAATGGAAAATCATCATACATTTT
S ATGACGTGGCAGACGAAGTAGAGAAAGTGCTCAAY
S CGCGCCGAGGCAAGTAGAGAAAGTGCTCAAY
S TTAGTTGAGCACTTTCTCTACTTCAAATGTATGATGATTTTCCATTAATCATACTACAACAAGGTAAGAGAGAGCC
S TTAGTTGAGCACTTTCTCTACTTGAAATGTATGATGATTTTCCATTAATCATACTACAACAAGGTAAGAGAGAGCC
TTTGTTCTGCCCTTCATTGGCCATTTAGGTCAGAGTGTTAGTTGAGCACTTTCTCTACTT[cg]AAATGTATGATGATTTT
CCATTAATCATACTACAACAAGGTAAGAGAGAGCCATACTTAT
S TCTATATTTTATTAATCAGAAATCTGAGGCCCAGAAATATGGAAAAAACTTTCT
S ATGACGTGGCAGACGGTAGGCACGAAGCAY
S CGCGCCGAGGAGTAGGCACGAAGCAAY
S GCTCTTGCTTCGTGCCTACCGAAAGTTTTTTCCATATTTCTGGGCCTCAGATTTCTGATTAATAAAATATAGACT
S GCTCTTGCTTCGTGCCTACTGAAAGTTTTTTCCATATTTCTGGGCCTCAGATTTCTGATTAATAAAATATAGACT
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TCTGGGCCTCAGATTTCTGATTAATAAAATATAGACTTTAGA
S TGGGCAAAAGAGATGGTGGAAGCGCAGTAACT
S ATGACGTGGCAGACGGATGATTTATAAGGTGACCCY
S CGCGCCGAGGAGATGATTTATAAGGTGACCCY
S TCCTGGGTCACCTTATAAATCATCCGTTACTGCGCTTCCACCATCTCTTTTGCCCATC
S TCCTGGGTCACCTTATAAATCATCTGTTACTGCGCTTCCACCATCTCTTTTGCCCATC
cagatcacagcttgggtagcaaggttccaaggtacatcctgggtcaccttataaatcatc[ct]gttactgcgcttccaccatctctttgcccatcaatttagaataagcagatictttttgt
S GCTCCAAGTTACCTGTGTTTGGGGCTAAAGATATGAATCAATAAAGT
S ATGACGTGGCAGACGAGAAAAGATGGAAGTGAGCY
S CGCGCCGAGGCAGAAAAGATGGAAGTGAGCY
S CAGAGCTCACTTCCATCTTTTCTCCTTTATTGATTCATATCTTTAGCCCCAAACACAGGTAACTTGGAGCCT
S CAGAGCTCACTTCCATCTTTTCTGCTTTATTGATTCATATCTTTAGCCCCAAACACAGGTAACTTGGAGCCT
TGTTATTGTAGCACAACCTAGCCTATTCCGATGAATCCAGAGCTCACTTCCATCTTTTCT[cg]CTTTATTGATTCATATCT
TTAGCCCCAAACACAGGTAACTTGGAGCCTGGGAATGGAAGG
S AGGAAACTTCAACAATGACTAAAGGTGGGAGAAAGTGATTAATTAAATCAAGAAGAT
S ATGACGTGGCAGACCTGAAGCTTCTAAACAAGTTAGAY
S CGCGCCGAGGATGAAGCTTCTAAACAAGTTAGAY
CAGATCTAACTTGTTTAGAAGCTTCAGTCTTCTTGATTTAATTAATCACTTTCTCCCACCTTTAGTCATTGTTGAAGTTT
S CCTGA
CAGATCTAACTTGTTTAGAAGCTTCATTCTTCTTGATTTAATTAATCACTTTCTCCCACCTTTAGTCATTGTTGAAGTTTC
S CTGA
aattaacatacacatttacccttctcatgaaacagatctaacttgtttagaagcttca[gt]tcttcttgatttaattaatcactttctcccaccttagtcattgttgaagtttcctgatt
S CAAGAGTGGTCGAAAGATTGGGTTGTGAGGATAGGGT
S ATGACGTGGCAGACGAAGGATTACATGTCATAAGAAAAAY
S CGCGCCGAGGAAAGGATTACATGTCATAAGAAAAAY
S TTCCTTTTTCTTATGACATGTAATCCTTCCCCTATCCTCACAACCCAATCTTTCGACCACTCTTGAT
S TTCCTTTTTCTTATGACATGTAATCCTTTCCCTATCCTCACAACCCAATCTTTCGACCACTCTTGAT
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A GGATAGTGCAATTTCTTCTATCTGCCTGAAGGGTTCAAATGATTCTT
A CGCGCCGAGGAGCACCAATACATTCCTAGY
A ATGACGTGGCAGACGGCACCAATACATTCCTAGY
A TAATCTAGGAATGTATTGGTGCTAGAATCATTTGAACCCTTCAGGCAGATAGAAGAAATTGCACTATCCTT
A TAATCTAGGAATGTATTGGTGCCAGAATCATTTGAACCCTTCAGGCAGATAGAAGAAATTGCACTATCCTT
GTTTTGATTCAAAAGGATAGTGCAATTTCTTCTATCTGCCTGAAGGGTTCAAATGATTCT[ag]GCACCAATACATTCCTA
GATTAAATCACTGAGGAGCTAGGAAGATTGGGGTTATCTTCTT
S CCTTAAATTTCCATCCTCCACTTCTCCCATAATAATAGAATTTTTAACTC
S CGCGCCGAGGTTGCATATGGTTTTCCATGTY
S ATGACGTGGCAGACATGCATATGGTTTTCCATGTY
S CCTTACATGGAAAACCATATGCAAAGTTAAAAATTCTATTATTATGGGAGAAGTGGAGGATGGAAATTTAAGGAA
S CCTTACATGGAAAACCATATGCATAGTTAAAAATTCTATTATTATGGGAGAAGTGGAGGATGGAAATTTAAGGAA
GTTACTCTAAGCTGCAAGAGAGGCTTTGGAAAGTAGCCCTTACATGGAAAACCATATGCA[at]AGTTAAAAATTCTATTA
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S GAGACATTAAAGAGATTTCTTAAAATGTAAAACAATGCCATCATGCTTA
S CGCGCCGAGGTGCTCTACTTTCATTCTTGAAY
S ATGACGTGGCAGACCGCTCTACTTTCATTCTTGAY
S AATTTTCAAGAATGAAAGTAGAGCAAAGCATGATGGCATTGTTTTACATTTTAAGAAATCTCTTTAATGTCTCAC
S AATTTTCAAGAATGAAAGTAGAGCGAAGCATGATGGCATTGTTTTACATTTTAAGAAATCTCTTTAATGTCTCAC
AGATATTAATATAAATAATATATTTTAATTAAAAACAATTTTCAAGAATGAAAGTAGAGC[ag]AAGCATGATGGCATTGTT
TTACATTTTAAGAAATCTCTTTAATGTCTCACTTAATAGAAG
S GTTTTGGGAGCCAGCAGATATAAAAATGCAAAAGACATGGATCT
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S CGCGCCGAGGATGTTTTCAAATCCTTCGTTAAGY
S TTTGCTTAACGAAGGATTTGAAAACACGATCCATGTCTTTTGCATTTTTATATCTGCTGGCTCCCAAAACAG
S TTTGCTTAACGAAGGATTTGAAAACATGATCCATGTCTTTTGCATTTTTATATCTGCTGGCTCCCAAAACAG
ATTATTACATCTGCTTCTGCTTCTGTCTCTCTCCTTTGCTTAACGAAGGATTTGAAAACA[ct]GATCCATGTCTTTTGCAT
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S GTGGCCAGGGATGTCATAAGGCTCAAAACCTC
S CGCGCCGAGGTCTGAAAACAGTATTCATTCCAY
S ATGACGTGGCAGACGCTGAAAACAGTATTCATTCCY
S TGCTTGGAATGAATACTGTTTTCAGAAGGTTTTGAGCCTTATGACATCCCTGGCCACTT
S TGCTTGGAATGAATACTGTTTTCAGCAGGTTTTGAGCCTTATGACATCCCTGGCCACTT
GGAGGTTAGAGCATCCCTTTTCTGCAACTAAGCCATGCTTGGAATGAATACTGTTTTCAG[ac]AGGTTTTGAGCCTTAT
GACATCCCTGGCCACTTGACTGGCTTTTTGGCAGGTGTCTTTTT

FIGURE 129D

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41068 I                    S  CAGTTTGTGTGGAAAGAGAATGGCCTGAGGGTAGAATATT
41068 P    c               S  ATGACGTGGCAGACGCACAGACTCTTACTTGGY
41068 P    t               S  CGCGCCGAGGACACAGACTCTTACTTGGGY
41068 T    c               S  ACAGCCCAAGTAAGAGTCTGTGCATATTCTACCCTCAGGCCATTCTCTTTCCACACAAACTGGG
41068 T    t               S  ACAGCCCAAGTAAGAGTCTGTGTATATTCTACCCTCAGGCCATTCTCTTTCCACACAAACTGGG

                                  atcctcctcccaggaccatcaaaaggtggctatttgccacagcccaagtaagagtctgt[ct]atatctactcctcaggccatctcttttccacacaaactgggcaacccagggtgcacc
41068 IS   [ct]                   accca
41074 I                    S  TCATGGCATAAAGGCGTCTTTCTCGCTGCATCC
41074 P    a               S  CGCGCCGAGGTCAGTCTGACTCAGGGY
41074 P    t               S  ATGACGTGGCAGACACAGTCTGACTCAGGGY
41074 T    a               S  GCCACCCTGAGTCAGACTGAGATGCAGCGAGAAAGACGCCTTTATGCCATGAGC
41074 T    t               S  GCCACCCTGAGTCAGACTGTGATGCAGCGAGAAAGACGCCTTTATGCCATGAGC

                                  TGTGACTTCCAGAGGGCGTAGCCACAGGTGGACGAGGTCAAGCCACCCTGAGTCAGACTG[at]GATGCAGCGAGAAA
41074 IS   [at]                   GACGCCTTTATGCCATGAGCCACTGAGACGTCCCTGCTTGTTGTAA
41077 I                    A  TCTGAGGGTTCCGGAAACACCTGGATCCAT
41077 P    a               A  CGCGCCGAGGATGGTGACAAATGGGCY
41077 P    g               A  ATGACGTGGCAGACGTGGTGACAAATGGGCY
41077 T    a               A  TGGGGCCCATTTGTCACCATTGGATCCAGGTGTTTCCGGAACCCTCAGATG
41077 T    g               A  TGGGGCCCATTTGTCACCACTGGATCCAGGTGTTTCCGGAACCCTCAGATG

                                  GCCTGGGCACTGTGTCACCCCTGGAGAGCCATCTGAGGGTTCCGGAAACACCTGGATCCA[ag]TGGTGACAAATGGG
41077 IS   [ag]                   CCCCAATGAAAACCTGTGAGGTGTTAAGACGTTGCCCGCTGCAATA
41078 I                    S  GCCACTTTCTGCTACCTGAGCATCTCTAGGGCT
41078 P    c               S  ATGACGTGGCAGACGCTGACCCCAGAAAAGY
41078 P    g               S  CGCGCCGAGGCCTGACCCCAGAAAAGY
41078 T    c               S  TGAGCTTTTCTGGGGTCAGCGCCCTAGAGATGCTCAGGTAGCAGAAAGTGGCGG
41078 T    g               S  TGAGCTTTTCTGGGGTCAGGGCCCTAGAGATGCTCAGGTAGCAGAAAGTGGCGG

                                  GCCGCCTCTAGCTGGTCCCTTTGTGCAGTGCTTTAAGGTTTTGAGCTTTTCTGGGGTCAG[cg]GCCCTAGAGATGCTC
41078 IS   [cg]                   AGGTAGCAGAAAGTGGCGGCACTCACGGCAGCACTGGCTAACGGG
41088 I                    S  GCTTCCCAACTCAGCCCCTTATTGACTGTGTT
41088 P    c               S  ATGACGTGGCAGACGATCATGGTTAGTTACTTCACCY
41088 P    t               S  CGCGCCGAGGAATCATGGTTAGTTACTTCACCY
41088 T    c               S  AAAAGGTGAAGTAACTAACCATGATCACACAGTCAATAAGGGGCTGAGTTGGGAAGCAA
41088 T    t               S  AAAAGGTGAAGTAACTAACCATGATTACACAGTCAATAAGGGGCTGAGTTGGGAAGCAA

                                  TATCCCTACTTTACAGATAAAAGAACTGAATTTCAAAAAGGTGAAGTAACTAACCATGAT[ct]ACACAGTCAATAAGGGG
41088 IS   [ct]                   CTGAGTTGGGAAGCAAACCCATCTCTGACTACCAAACTTGTGG
41089 I                    S  GGGCAAGACTGAGATATCCCTTGACCTTTACAT
41089 P    c               S  ATGACGTGGCAGACGTTCTTTTTGTCCTTTTCAAACY
41089 P    t               S  CGCGCCGAGGATTCTTTTTGTCCTTTTCAAACTY
41089 T    c               S  GGCAAGTTTGAAAAGGACAAAAAGAACTGTAAAGGTCAAGGGATATCTCAGTCTTGCCCTT
41089 T    t               S  GGCAAGTTTGAAAAGGACAAAAAGAATTGTAAAGGTCAAGGGATATCTCAGTCTTGCCCTT

                                  TCTAGAGAGGTGGAGGATGGCAAGTTTGAAAAGGACAAAAAGAA[ct]TGTAAAGGTCAAGGGATATCTCAGTCTTGCCC
41089 IS   [ct]                   TTCTATTTATTAAAATCCAATCTTACCC
41090 I                    A  CCATGATCCAAGGTGGTAAATAAACACTCCAATGTCCCTT
41090 P    c               A  CGCGCCGAGGCTGCCCTTTAGCTAGTCTY
41090 P    g               A  ATGACGTGGCAGACGTGCCCTTTAGCTAGTCTY
41090 T    c               A  TGAAAGACTAGCTAAAGGGCAGAGGGACATTGGAGTGTTTATTTACCACCTTGGATCATGGAT
41090 T    g               A  TGAAAGACTAGCTAAAGGGCACAGGGACATTGGAGTGTTTATTTACCACCTTGGATCATGGAT

                                  CTGCTGCCAACGCCACTTGATCCATGATCCAAGGTGGTAAATAAACACTCCAATGTCCCT[cg]TGCCCTTTAGCTAGTC
41090 IS   [cg]                   TTTCAAGATTCCAGGCCCCAGGTGGGATCATTCAACTAAGCCCT
41091 I                    A  CTTGATTCCAATTGGGGAAATCAAACACAGAGCAATTAAGAAAATTGTCTT
41091 P    a               A  CGCGCCGAGGAAAGTGACACAGCTCATTAGY
41091 P    g               A  ATGACGTGGCAGACGAAGTGACACAGCTCATTAY

41091 T    a               A  ACTGCTAATGAGCTGTGTCACTTTAGACAATTTTCTTAATTGCTCTGTGTTTGATTTCCCCAATTGGAATCAAGAA

41091 T    g               A  ACTGCTAATGAGCTGTGTCACTTCAGACAATTTTCTTAATTGCTCTGTGTTTGATTTCCCCAATTGGAATCAAGAA

                                  aaaaatcatcttgatccaattgggaaatcaaacacagagcaattaagaaaattgtct[ag]aagtgacacagctcattagcagtagaaccaaattttacccacttcaaggtaaaga
41091 IS   [ag]                   ccatt
41093 I                    S  AGTGCTGCCCATGGCCCAGCCA
41093 P    a               S  CGCGCCGAGGTAGGAGCCTATTTAGGGCY
41093 P    g               S  ATGACGTGGCAGACCAGGAGCCTATTTAGGGCY
41093 T    a               S  CGGCGCCCTAAATAGGCTCCTAGGCTGGGCCATGGGCAGCACTGC
41093 T    g               S  CGGCGCCCTAAATAGGCTCCTGGGCTGGGCCATGGGCAGCACTGC

                                  CGCCGCACTCACCTGAGCCGCGCCTCTGTCCAGCCCGTCCGGCGCCCTAAATAGGCTCCT[ag]GGCTGGGCCATGG
41093 IS   [ag]                   GCAGCACTGCCGAGCACCCGCGGCGGGTAGAGCAAGTTTCTGGATGG
41096 I                    S  CAAGGCTCAGAATTTTCTTTGTTAATTAAGGAAAATGCGTCCTTGAGTTAT
41096 P    c               S  ATGACGTGGCAGACGCAAATATCTGAGGGGTGY
41096 P    t               S  CGCGCCGAGGACAAATATCTGAGGGGTGGY

41096 T    c               S  TCCACCCCTCAGATATTTGCTAACTCAAGGACGCATTTTCCTTAATTAACAAAAGAAAATTCTGAGCCTTGGT

41096 T    t               S  TCCACCCCTCAGATATTTGTTAACTCAAGGACGCATTTTCCTTAATTAACAAAAGAAAATTCTGAGCCTTGGT

                                  tccaccctcagatattgtctaactcaaggacgcattttccttaattaacaaaagaaaattctgagccttggtagattaa
41096 IS   [ct]
41103 I                    A  GACACAGCTGTCAGCCACTTCCAAACTCTTTCCT
41103 P    a               A  CGCGCCGAGGAGATTTAGAGAAAGAAGGGGY
41103 P    g               A  ATGACGTGGCAGACGGATTTAGAGAAAGAAGGGGY
41103 T    a               A  CCTCCCCCTTCTTTCTCTAAATCTGGAAAGAGTTTGGAAGTGGCTGACAGCTGTGTCTT
41103 T    g               A  CCTCCCCCTTCTTTCTCTAAATCCGGAAAGAGTTTGGAAGTGGCTGACAGCTGTGTCTT

                                  agaaaatataagggctgccagaaggaagacacagctgtcagccacttccaaactcttccc[ag]gatttagagaaagaagggggaggctctgggccctttgtaaataagtgaacc
41103 IS   [ag]                   gaagcctc
41106 I                    S  GCTCCAAGTAATGGAAGGGAGGAAAAGCATGACAAAGAACA
41106 P    a               S  CGCGCCGAGGTGAAGAGTAACTAACTTTGCAY
41106 P    g               S  ATGACGTGGCAGACCGAAGAGTAACTAACTTTGCAY

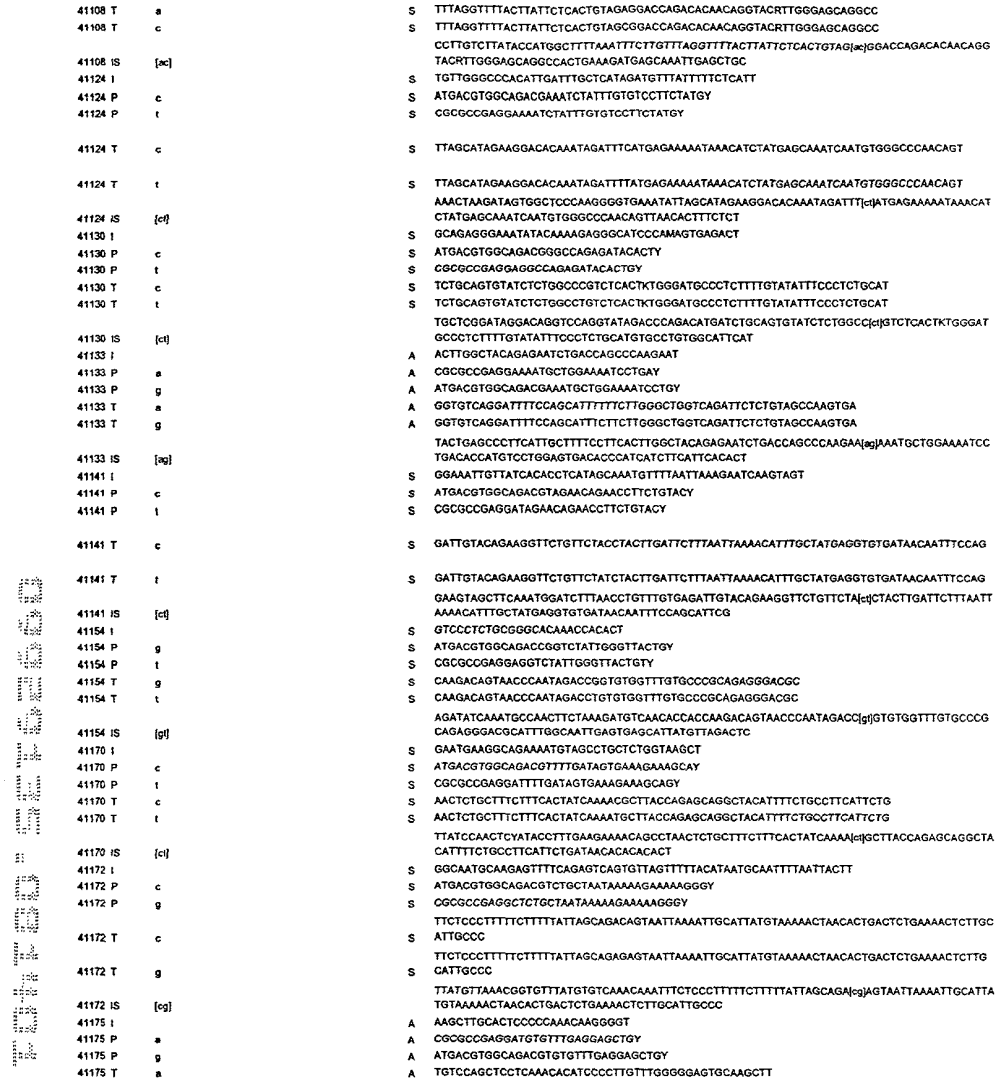
41106 T    a               S  ACAGTGCAAAGTTAGTTACTCTTCAGTTCTTTGTCATGCTTTTCCTCCCTTCCATTACTTGGAGCAT

41106 T    g               S  ACAGTGCAAAGTTAGTTACTCTTCGGTTCTTTGTCATGCTTTTCCTCCCTTCCATTACTTGGAGCAT

                                  tgtcctatggctgcttctggaaacttcctaaaagacagtgcaaagttagttactcttc[ag]gttcttttgtcatgctttttcctccttccattacttggagcatttagatgactggaga
41106 IS   [ag]
41107 I                    S  ACTGTGGACACTTCACAGGGAAAGATGTCATTTTGCTT
41107 P    c               S  ATGACGTGGCAGACGAGTATAGACGTTTTTGTGGGY
41107 P    t               S  CGCGCCGAGGAAGTATAGACGTTTTTGTGGGY
41107 T    c               S  TGTTCCCACAAAAACGTCTATACTCAGCAAAATGACATCTTTCCCTGTGAAGTGTCCACAGTGA
41107 T    t               S  TGTTCCCACAAAAACGTCTATACTTAGCAAAATGACATCTTTCCCTGTGAAGTGTCCACAGTGA

                                  TTGGAGTGAGAGCCTTCCTGAGGAACAAATAGGGATTGTTCCCACAAAAACGTCTATACT[ct]AGCAAAATGACATCTTT
41107 IS   [ct]                   CCCTGTGAAGTGTCCACAGTGAGACCCCTCTAGA
41108 I                    S  CCTGCTCCCAAYGTACCTGTTGTGTCTGGTCCC
41108 P    a               S  CGCGCCGAGGTCTACAGTGAGAATAAGTAAAACCY
41108 P    c               S  ATGACGTGGCAGACGCTACAGTGAGAATAAGTAAAACY
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FIGURE 129D


41108 T a S TTTAGGTTTTACTTATTCTCACTGTAGAGGACCAGACACAACAGGTACRTTGGGAGCAGGCC
41108 T c S TTTAGGTTTTACTTATTCTCACTGTAGCGGACCAGACACAACAGGTACRTTGGGAGCAGGCC
41108 IS [ac] CCTTGTCTTATACCATGGCTTTTAAATTTCTTGTTTAGGTTTTACTTATTCTCACTGTAG[ac]GGACCAGACACAACAGG TACRTTGGGAGCAGGCCACTGAAAGATGAGCAAATTGAGCTGC
41124 I S TGTTGGGCCCACATTGATTTGCTCATAGATGTTTATTTTTCTCATT
41124 P c S ATGACGTGGCAGACGAAATCTATTTGTGTCCTTCTATGY
41124 P t S CGCGCCGAGGAAAATCTATTTGTGTCCTTCTATGY
41124 T c S TTAGCATAGAAGGACACAAATAGATTTCATGAGAAAAATAAACATCTATGAGCAAATCAATGTGGGCCCAACAGT
41124 T t S TTAGCATAGAAGGACACAAATAGATTTTATGAGAAAAATAAACATCTATGAGCAAATCAATGTGGGCCCAACAGT
41124 IS [ct] AAACTAAGATAGTGGCTCCCAAGGGGTGAAATATTAGCATAGAAGGACACAAATAGATTT[ct]ATGAGAAAAATAAACAT CTATGAGCAAATCAATGTGGGCCCAACAGTTAACACTTTCTCT
41130 I S GCAGAGGGAAATATACAAAAGAGGGCATCCCAMAGTGAGACT
41130 P c S ATGACGTGGCAGACGGGCCAGAGATACACTY
41130 P t S CGCGCCGAGGAGGCCAGAGATACACTGY
41130 T c S TCTGCAGTGTATCTCTGGCCCGTCTCACTKTGGGATGCCCTCTTTTGTATATTTCCCTCTGCAT
41130 T t S TCTGCAGTGTATCTCTGGCCTGTCTCACTKTGGGATGCCCTCTTTTGTATATTTCCCTCTGCAT
41130 IS [ct] TGCTCGGATAGGACAGGTCCAGGTATAGACCCAGACATGATCTGCAGTGTATCTCTGGCC[ct]GTCTCACTKTGGGAT GCCCTCTTTTGTATATTTCCCTCTGCATGTGCCTGTGGCATTCAT
41133 I A ACTTGGCTACAGAGAATCTGACCAGCCCAAGAAT
41133 P a A CGCGCCGAGGAAAATGCTGGAAAATCCTGAY
41133 P g A ATGACGTGGCAGACGAAATGCTGGAAAATCCTGY
41133 T a A GGTGTCAGGATTTTCCAGCATTTTTTCTTGGGCTGGTCAGATTCTCTGTAGCCAAGTGA
41133 T g A GGTGTCAGGATTTTCCAGCATTICTTCTTGGGCTGGTCAGATTCTCTGTAGCCAAGTGA
41133 IS [ag] TACTGAGCCCTTCATTGCTTTTCCTTCACTTGGCTACAGAGAATCTGACCAGCCCAAGAA[ag]AAATGCTGGAAAATCC TGACACCATGTCCTGGAGTGACACCCATCATCTTCATTCACACT
41141 I S GGAAATTGTTATCACACCTCATAGCAAATGTTTTAATTAAAGAATCAAGTAGT
41141 P c S ATGACGTGGCAGACGTAGAACAGAACCTTCTGTACY
41141 P t S CGCGCCGAGGATAGAACAGAACCTTCTGTACY
41141 T c S GATTGTACAGAAGGTTCTGTTCTACCTACTTGATTCTTTAATTAAAACATTTGCTATGAGGTGTGATAACAATTTCCAG
41141 T t S GATTGTACAGAAGGTTCTGTTCTATCTACTTGATTCTTTAATTAAAACATTTGCTATGAGGTGTGATAACAATTTCCAG
41141 IS [ct] GAAGTAGCTTCAAATGGATCTTTAACCTGTTTGTGAGATTGTACAGAAGGTTCTGTTCTA[ct]CTACTTGATTCTTTAATT AAAACATTTGCTATGAGGTGTGATAACAATTTCCAGCATTCG
41154 I S GTCCCTCTGCGGGCACAAACCACACT
41154 P g S ATGACGTGGCAGACCGGTCTATTGGGTTACTGY
41154 P t S CGCGCCGAGGAGGTCTATTGGGTTACTGTY
41154 T g S CAAGACAGTAACCCAATAGACCGGTGTGGTTTGTGCCCGCAGAGGGACGC
41154 T t S CAAGACAGTAACCCAATAGACCTGTGTGGTTTGTGCCCGCAGAGGGACGC
41154 IS [gt] AGATATCAAATGCCAACTTCTAAAGATGTCAACACCACCAAGACAGTAACCCAATAGACC[gt]GTGTGGTTTGTGCCCG CAGAGGGACGCATTTGGCAATTGAGTGAGCATTATGTTAGACTC
41170 I S GAATGAAGGCAGAAAATGTAGCCTGCTCTGGTAAGCT
41170 P c S ATGACGTGGCAGACGTTTTGATAGTGAAAGAAAGCAY
41170 P t S CGCGCCGAGGATTTTGATAGTGAAAGAAAGCAGY
41170 T c S AACTCTGCTTTCTTTCACTATCAAAACGCTTACCAGAGCAGGCTACATTTTCTGCCTTCATTCTG
41170 T t S AACTCTGCTTTCTTTCACTATCAAAATGCTTACCAGAGCAGGCTACATTTTCTGCCTTCATTCTG
41170 IS [ct] TTATCCAACTCYATACCTTTGAAGAAAACAGCCTAACTCTGCTTTCTTTCACTATCAAAA[ct]GCTTACCAGAGCAGGCTA CATTTTCTGCCTTCATTCTGATAACACACACACT
41172 I S GGCAATGCAAGAGTTTTCAGAGTCAGTGTTAGTTTTTACATAATGCAATTTTAATTACTT
41172 P c S ATGACGTGGCAGACGTCTGCTAATAAAAAGAAAAAGGGY
41172 P g S CGCGCCGAGGCTCTGCTAATAAAAAGAAAAAGGGY
41172 T c S TTCTCCCTTTTTCTTTTTATTAGCAGACAGTAATTAAAATTGCATTATGTAAAAACTAACACTGACTCTGAAAACTCTTGC ATTGCCC
41172 T g S TTCTCCCTTTTTCTTTTTATTAGCAGAGAGTAATTAAAATTGCATTATGTAAAAACTAACACTGACTCTGAAAACTCTTG CATTGCCC
41172 IS [cg] TTATGTTAAACGGTGTTTATGTGTCAAACAAATTTCTCCCTTTTTCTTTTTATTAGCAGA[cg]AGTAATTAAAATTGCATTA TGTAAAAACTAACACTGACTCTGAAAACTCTTGCATTGCCC
41175 I A AAGCTTGCACTCCCCCAAACAAGGGGT
41175 P a A CGCGCCGAGGATGTGTTTGAGGAGCTGY
41175 P g A ATGACGTGGCAGACGTGTGTTTGAGGAGCTGY
41175 T a A TGTCCAGCTCCTCAAACACATCCCCTTGTTTGGGGGAGTGCAAGCTT
41175 T g A TGTCCAGCTCCTCAAACACACCCCCTTGTTTGGGGGAGTGCAAGCTT
41175 IS [ag] AAGCTTGCACTCCCCCAAACAAGGGG[ag]TGTGTTTGAGGAGCTGGACAAGGAGTAGGGGGATGCATAAGCTACATAA AWCATTTAGGG
41182 I A GGAGGGGCTAGGTGGGGCCGAT
41182 P c A CGCGCCGAGGCGGTCCGCAGACCY
41182 P g A ATGACGTGGCAGACGGGTCCGCAGACCY
41182 T c A TGGTGGTCTGCGGACCGTCGGCCCCACCTAGCCCCTCCCC
41182 T g A TGGTGGTCTGCGGACCCTCGGCCCCACCTAGCCCCTCCCC
41182 IS [cg] AGAAGGCGAGGCTGGTGCTCCCTGGATGCAGCCCTGAGGGGAGGGGCTAGGTGGGGCCGA[cg]GGTCCGCAGACC ACCATGCTCTGAGCCTTGGGCACAGTATGAGTCTCCATCCGAGACCCC
41183 I A TGCATGCTATTTGGAACACACCATATGCATGCACACATATAC
41183 P a A CGCGCCGAGGACAGTGAGAATGTGTACATGY
41183 P t A ATGACGTGGCAGACTCAGTGAGAATGTGTACATGY
41183 T a A TACACATGTACACATTCTCACTGTTATATGTGTGCATGCATATGGTGTGTTCCAAATAGCATGCAGC
41183 T t A TACACATGTACACATTCTCACTGATATATGTGTGCATGCATATGGTGTGTTCCAAATAGCATGCAGC
41183 IS [at] TCTATATTACTGAACCTGCTGCATGCTATTTGGAACACACCATATGCATGCACACATATA[at]CAGTGAGAATGTGTACA TGTGTATTTAGATTGAATAGAATAATTTAAAGAAATAAACAGA
41186 I S CATCACCTGCTAATGGCTGTCAGCT
41186 P g S ATGACGTGGCAGACCTAAGGACTGCTCTTCTTCY
41186 P t S CGCGCCGAGGATAAGGACTGCTCTTCTTCTY
41186 T g S TAACAGAAGAAGAGCAGTCCTTAGGCTGACAGCCATTAGCAGGTGATG
41186 T t S TAACAGAAGAAGAGCAGTCCTTATGCTGACAGCCATTAGCAGGTGATG
41186 IS [gt] gtVgttaatatctctctgccatttctaatctctttctttaacagaagaagagcagtcctta[gt]gctgacagccattagcaggtgatg
41187 I A GCTACACCACTGGTGTCAACCTGCACACACT
41187 P a A CGCGCCGAGGAGCACAGTTCAGGCTY
41187 P c A ATGACGTGGCAGACCGCACAGTTCAGGCY
41187 T a A GCCCAGCCTGAACTGTGCTGTGTGTGCAGGTTGACACCAGTGGTGTAGCTG
41187 T c A GCCCAGCCTGAACTGTGCGGTGTGTGCAGGTTGACACCAGTGGTGTAGCTG
41187 IS [ar] CGCCCCAGGAAACCCAGGCCAGGGTCCACAGCTACACCACTGGTGTCAACGTGCACACAC[ac]GCACAGTTCAGGCT GGGCAGGTTCCAATGCCACCAGGAYCGCCAATGGACCACCTCTTCA
41189 I A TCAAAGAGAGTTTGGGAGTATTTTGCTTCTTAAGGTGGGAGATATTAGAATT
41189 P a A CGCGCCGAGGAGGTTACATTTAGCAAAAAGAAAY
41189 P g A ATGACGTGGCAGACGGGTTACATTTAGCAAAAAGAAY

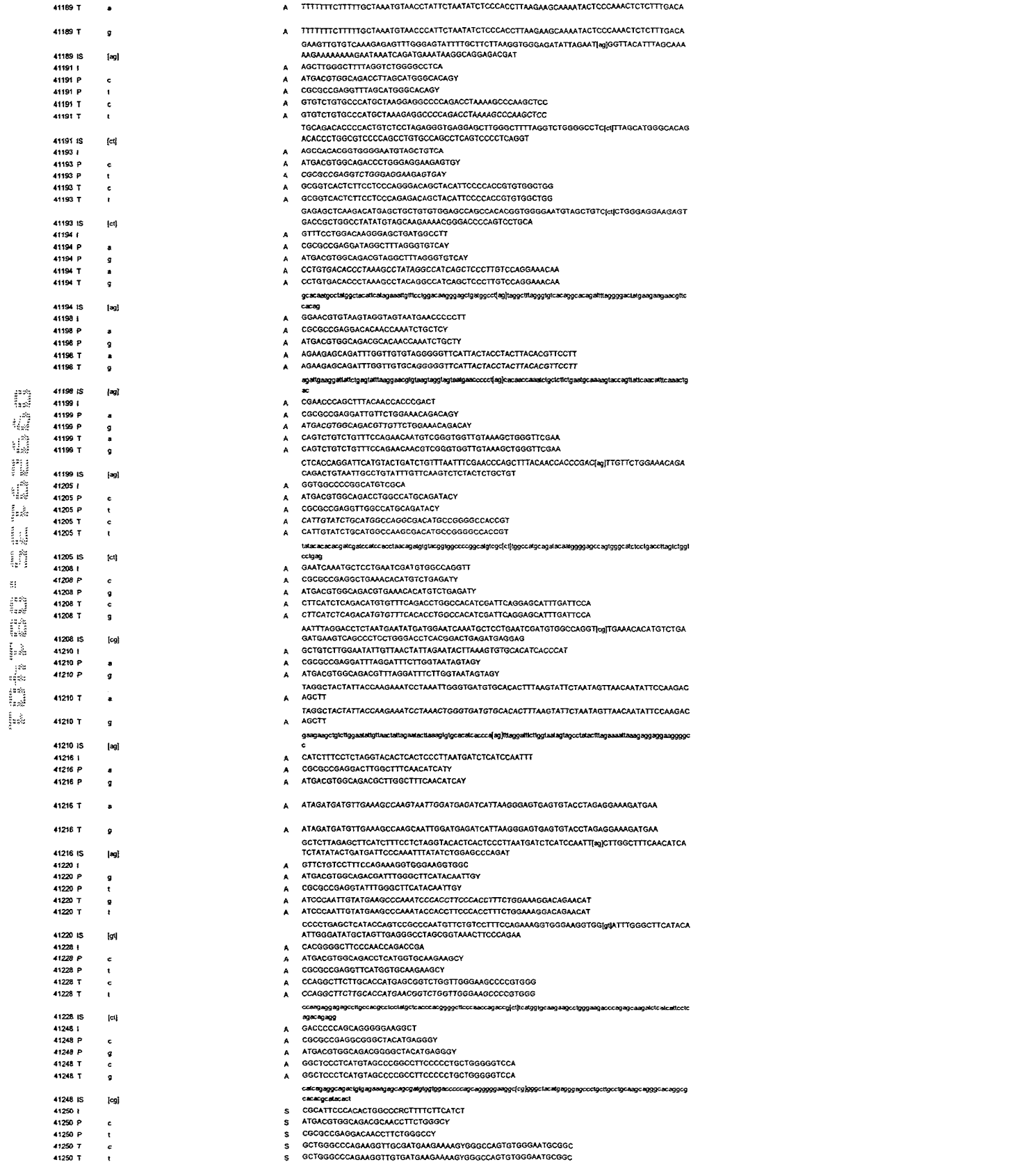

41189 T a A TTTTTTTCTTTTTGCTAAATGTAACCTATTCTAATATCTCCCACCTTAAGAAGCAAAATACTCCCAAACTCTCTTTGACA
41189 T g A TTTTTTTCTTTTTGCTAAATGTAACCCATTCTAATATCTCCCACCTTAAGAAGCAAAATACTCCCAAACTCTCTTTGACA
41189 IS [ag] GAAGTTGTGTCAAAGAGAGTTTGGGAGTATTTTGCTTCTTAAGGTGGGAGATATTAGAAT[ag]GGTTACATTTAGCAAA AAGAAAAAAAAGAATAAATCAGATGAAATAAGGCAGGAGACGAT
41191 I A AGCTTGGGCTTTTAGGTCTGGGGCCTCA
41191 P c A ATGACGTGGCAGACCTTAGCATGGGCACAGY
41191 P t A CGCGCCGAGGTTTAGCATGGGCACAGY
41191 T c A GTGTCTGTGCCCATGCTAAGGAGGCCCCAGACCTAAAAGCCCAAGCTCC
41191 T t A GTGTCTGTGCCCATGCTAAAGAGGCCCCAGACCTAAAAGCCCAAGCTCC
41191 IS [ct] TGCAGACACCCCACTGTCTCCTAGAGGGTGAGGAGCTTGGGCTTTTAGGTCTGGGGCCTC[ct]TTAGCATGGGCACAG ACACCCTGGCGTCCCCAGCCTGTGCCAGCCTCAGTCCCCTCAGGT
41193 I A AGCCACACGGTGGGGAATGTAGCTGTCA
41193 P c A ATGACGTGGCAGACCCTGGGAGGAAGAGTGY
41193 P t A CGCGCCGAGGTCTGGGAGGAAGAGTGAY
41193 T c A GCGGTCACTCTTCCTCCCAGGGACAGCTACATTCCCCACCGTGTGGCTGG
41193 T t A GCGGTCACTCTTCCTCCCAGAGACAGCTACATTCCCCACCGTGTGGCTGG
41193 IS [ct] GAGAGCTCAAGACATGAGCTGCTGTGTGGAGCCAGCCACACGGTGGGGAATGTAGCTGTC[ct]CTGGGAGGAAGAGT GACCGCTGGCCTATATGTAGCAAGAAAACGGGACCCCAGTCCTGCA
41194 I A GTTTCCTGGACAAGGGAGCTGATGGCCTT
41194 P a A CGCGCCGAGGATAGGCTTTAGGGTGTCAY
41194 P g A ATGACGTGGCAGACGTAGGCTTTAGGGTGTCAY
41194 T a A CCTGTGACACCCTAAAGCCTATAGGCCATCAGCTCCCTTGTCCAGGAAACAA
41194 T g A CCTGTGACACCCTAAAGCCTACAGGCCATCAGCTCCCTTGTCCAGGAAACAA
41194 IS [ag] gcacaatgcctatggctacattcatagaaattgtttcctggacaaggagctgatggcct[ag]taggctttagggtgtcacaggcacagatttaggggactatgaagaatgaacgttc cacag
41198 I A GGAACGTGTAAGTAGGTAGTAATGAACCCCCTT
41198 P a A CGCGCCGAGGACACAACCAAATCTGCTCY
41198 P g A ATGACGTGGCAGACGCACAACCAAATCTGCTY
41198 T a A AGAAGAGCAGATTTGGTTGTGTAGGGGGTTCATTACTACCTACTTACACGTTCCTT
41198 T g A AGAAGAGCAGATTTGGTTGTGCAGGGGGTTCATTACTACCTACTTACACGTTCCTT
41198 IS [ag] agattgaaggattatctgagtatttaaggaacgtgtaagtaggtagtaatgaacccccct[ag]cacaaccaaatctgctcttctgaatgcaaaagtaccagttatcaacatttcaaactg ac
41199 I A CGAACCCAGCTTTACAACCACCCGACT
41199 P a A CGCGCCGAGGATTGTTCTGGAAACAGACAGY
41199 P g A ATGACGTGGCAGACGTTGTTCTGGAAACAGACAY
41199 T a A CAGTCTGTCTGTTTCCAGAACAATGTCGGGTGGTTGTAAAGCTGGGTTCGAA
41199 T g A CAGTCTGTCTGTTTCCAGAACAACGTCGGGTGGTTGTAAAGCTGGGTTCGAA
41199 IS [ag] CTCACCAGGATTCATGTACTGATCTGTTTAATTTCGAACCCAGCTTTACAACCACCCGAC[ag]TTGTTCTGGAAACAGA CAGACTGTAATTGCCTGTATTTGTTCAAGTCTCTACTCTGCTGT
41205 I A GGTGGCCCCGGCATGTCGCA
41205 P c A ATGACGTGGCAGACCTGGCCATGCAGATACY
41205 P t A CGCGCCGAGGTTGGCCATGCAGATACY
41205 T c A CATTGTATCTGCATGGCCAGGCGACATGCCGGGGCCACCGT
41205 T t A CATTGTATCTGCATGGCCAAGCGACATGCCGGGGCCACCGT
41205 IS [ct] tatacacacacgatcgatccatccacctaacagatgtgtacggtggcccccggcatgtcgc[ct]tggccatgcagatacaatggggagccagtgggcatctcctgaccttagtctggt cctgag
41208 I A GAATCAAATGCTCCTGAATCGATGTGGCCAGGTT
41208 P c A CGCGCCGAGGCTGAAACACATGTCTGAGATY
41208 P g A ATGACGTGGCAGACGTGAAACACATGTCTGAGATY
41208 T c A CTTCATCTCAGACATGTGTTTCAGACCTGGCCACATCGATTCAGGAGCATTTGATTCCA
41208 T g A CTTCATCTCAGACATGTGTTTCACACCTGGCCACATCGATTCAGGAGCATTTGATTCCA
41208 IS [cg] AATTTAGGACCTCTAATGAATATGATGGAATCAAATGCTCCTGAATCGATGTGGCCAGGT[cg]TGAAACACATGTCTGA GATGAAGTCAGCCCTCCTGGGACCTCACGGACTGAGATGAGGAG
41210 I A GCTGTCTTGGAATATTGTTAACTATTAGAATACTTAAAGTGTGCACATCACCCAT
41210 P a A CGCGCCGAGGATTTAGGATTTCTTGGTAATAGTAGY
41210 P g A ATGACGTGGCAGACGTTTAGGATTTCTTGGTAATAGTAGY
41210 T a A TAGGCTACTATTACCAAGAAATCCTAAATTGGGTGATGTGCACACTTTAAGTATTCTAATAGTTAACAATATTCCAAGAC AGCTT
41210 T g A TAGGCTACTATTACCAAGAAATCCTAAACTGGGTGATGTGCACACTTTAAGTATTCTAATAGTTAACAATATTCCAAGAC AGCTT
41210 IS [ag] gaagaagctgtcttggaatatgttaactattagaatacttaaagtgtgcacatcaccca[ag]tttaggatttcttggtaatagtagcctatacttagaaaattaaaggaggaggaaggggc c
41216 I A CATCTTTCCTCTAGGTACACTCACTCCCTTAATGATCTCATCCAATTT
41216 P a A CGCGCCGAGGACTTGGCTTTCAACATCATY
41216 P g A ATGACGTGGCAGACGCTTGGCTTTCAACATCAY
41216 T a A ATAGATGATGTTGAAAGCCAAGTAATTGGATGAGATCATTAAGGGAGTGAGTGTACCTAGAGGAAAGATGAA
41216 T g A ATAGATGATGTTGAAAGCCAAGCAATTGGATGAGATCATTAAGGGAGTGAGTGTACCTAGAGGAAAGATGAA
41216 IS [ag] GCTCTTAGAGCTTCATCTTTCCTCTAGGTACACTCACTCCCTTAATGATCTCATCCAATT[ag]CTTGGCTTTCAACATCA TCTATATACTGATGATTCCCAAATTTATATCTGGAGCCCAGAT
41220 I A GTTCTGTCCTTTCCAGAAAGGTGGGAAGGTGGC
41220 P g A ATGACGTGGCAGACGATTTGGGCTTCATACAATTGY
41220 P t A CGCGCCGAGGTATTTGGGCTTCATACAATTGY
41220 T g A ATCCCAATTGTATGAAGCCCAAATCCCACCTTCCCACCTTTCTGGAAAGGACAGAACAT
41220 T t A ATCCCAATTGTATGAAGCCCAAATACCACCTTCCCACCTTTCTGGAAAGGACAGAACAT
41220 IS [gt] CCCCTGAGCTCATACCAGTCCGCCCAATGTTCTGTCCTTTCCAGAAAGGTGGGAAGGTGG[gt]ATTTGGGCTTCATACA ATTGGGATATGCTAGTTGAGGGCCTAGCGGTAAACTTCCCAGAA
41228 I A CACGGGGCTTCCCAACCAGACCGA
41228 P c A ATGACGTGGCAGACCTCATGGTGCAAGAAGCY
41228 P t A CGCGCCGAGGTTCATGGTGCAAGAAGCY
41228 T c A CCAGGCTTCTTGCACCATGAGCGGTCTGGTTGGGAAGCCCCGTGGG
41228 T t A CCAGGCTTCTTGCACCATGAACGGTCTGGTTGGGAAGCCCCGTGGG
41228 IS [ct] ccaaggaggagagcctgccacgccctcctatgctcacccacggggcttcccaaccagaccg[ct]tcatgggtgcaagaagcctgggaagacccagagcaagaatctcatcattcctc agacagagg
41248 I A GACCCCCAGCAGGGGGAAGGCT
41248 P c A CGCGCCGAGGCGGGCTACATGAGGGY
41248 P g A ATGACGTGGCAGACGGGGCTACATGAGGGY
41248 T c A GGCTCCCTCATGTAGCCCGGCCTTCCCCCTGCTGGGGGTCCA
41248 T g A GGCTCCCTCATGTAGCCCCGCCTTCCCCCTGCTGGGGGTCCA
41248 IS [cg] catcagaggcagactgtgagaaagagcagcgatgtggtggaccccagcaggggaaggc[cg]gggctacatgagggagcccttgcctgcagcagggcacaggcg cacacgctatacact
41250 I S CGCATTCCCACACTGGCCCRCTTTTCTTCATCT
41250 P c S ATGACGTGGCAGACGCAACCTTCTGGGCY
41250 P t S CGCGCCGAGGACAACCTTCTGGGCCY
41250 T c S GCTGGGCCCAGAAGGTTGTGATGAAGAAAAGYGGGCCAGTGTGGGAATGCGGC
41250 T t S GCTGGGCCCAGAAGGTTGTGATGAAGAAAAGYGGGCCAGTGTGGGAATGCGGC

FIGURE 129D

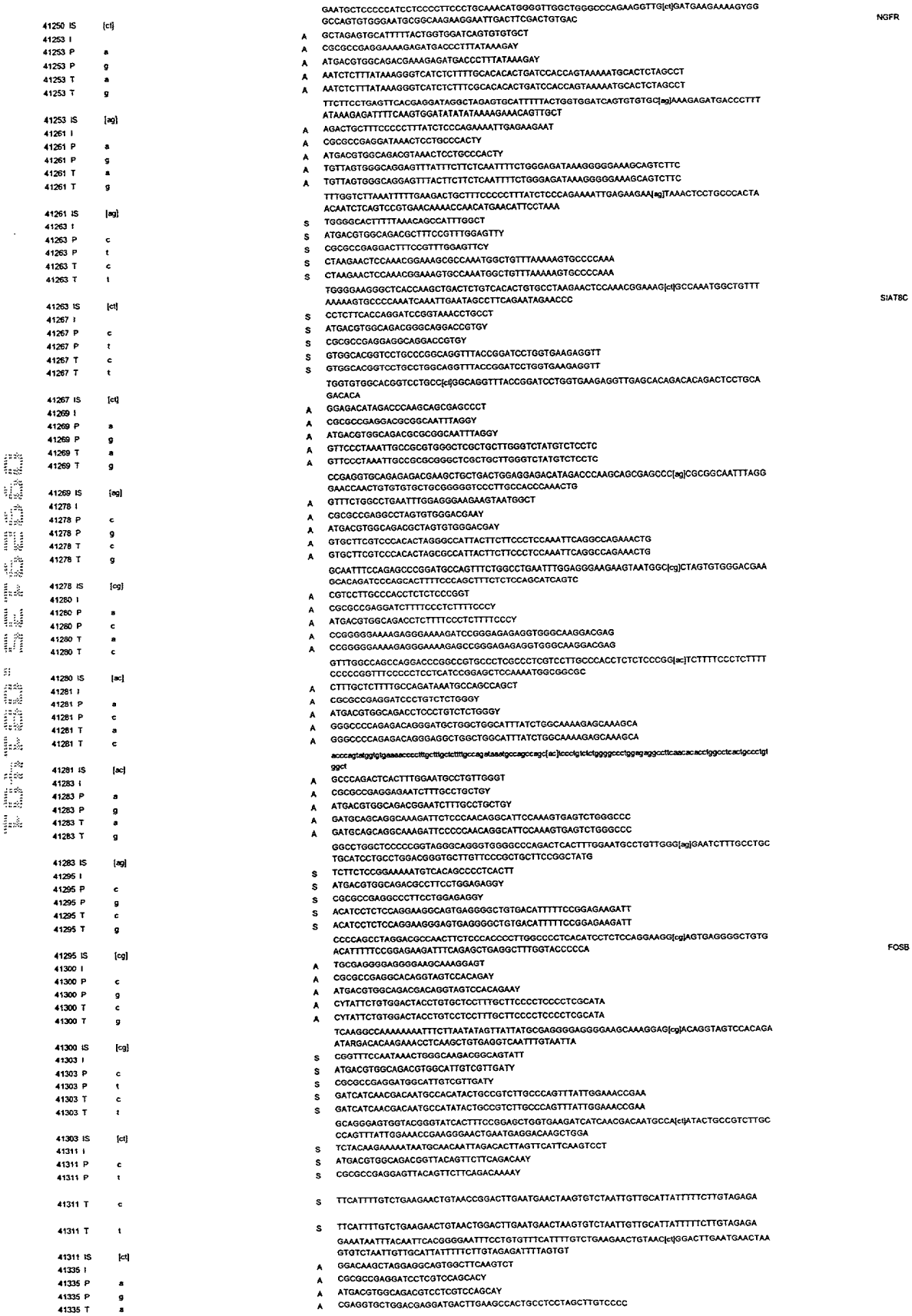

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GCCAGTGTGGGAATGCGGCAAGAAGGAATTGACTTCGACTGTGAC
NGFR
41250 IS [ct]
41253 I
41253 P a
41253 P g
41253 T a
41253 T g
A GCTAGAGTGCATTTTTACTGGTGGATCAGTGTGTGCT
A CGCGCCGAGGAAAAGAGATGACCCTTTATAAAGAY
A ATGACGTGGCAGACGAAAGAGATGACCCTTTATAAAGAY
A AATCTCTTTATAAAGGGTCATCTCTTTTGCACACACTGATCCACCAGTAAAAATGCACTCTAGCCT
A AATCTCTTTATAAAGGGTCATCTCTTTCGCACACACTGATCCACCAGTAAAAATGCACTCTAGCCT
41253 IS [ag]
41261 I
41261 P a
41261 P g
41261 T a
41261 T g
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A AGACTGCTTTCCCCCTTTATCTCCCAGAAAATTGAGAAGAAT
A CGCGCCGAGGATAAACTCCTGCCCACTY
A ATGACGTGGCAGACGTAAACTCCTGCCCACTY
A TGTTAGTGGGCAGGAGTTTATTTCTTCTCAATTTTCTGGGAGATAAAGGGGGAAAGCAGTCTTC
A TGTTAGTGGGCAGGAGTTTACTTCTTCTCAATTTTCTGGGAGATAAAGGGGGAAAGCAGTCTTC
41261 IS [ag]
41263 I
41263 P c
41263 P t
41263 T c
41263 T t
TTTGGTCTTAAATTTTTGAAGACTGCTTTCCCCCTTTATCTCCCAGAAAATTGAGAAGAA[ag]TAAACTCCTGCCCACTA
ACAATCTCAGTCCGTGAACAAAACCAACATGAACATTCCTAAA
S TGGGGCACTTTTTAAACAGCCATTTGGCT
S ATGACGTGGCAGACGCTTTCCGTTTGGAGTTY
S CGCGCCGAGGACTTTCCGTTTGGAGTTCY
S CTAAGAACTCCAAACGGAAAGCGCCAAATGGCTGTTTAAAAAGTGCCCCAAA
S CTAAGAACTCCAAACGGAAAGTGCCAAATGGCTGTTTAAAAAGTGCCCCAAA
41263 IS [ct]
41267 I
41267 P c
41267 P t
41267 T c
41267 T t
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AAAAAGTGCCCCAAATCAAATTGAATAGCCTTCAGAATAGAACCC
SIAT8C
41267 IS [ct]
41269 I
41269 P a
41269 P g
41269 T a
41269 T g
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S ATGACGTGGCAGACGGGCAGGACCGTGY
S CGCGCCGAGGAGGCAGGACCGTGY
S GTGGCACGGTCCTGCCCGGCAGGTTTACCGGATCCTGGTGAAGAGGTT
S GTGGCACGGTCCTGCCTGGCAGGTTTACCGGATCCTGGTGAAGAGGTT
41269 IS [ag]
41278 I
41278 P c
41278 P g
41278 T c
41278 T g
TGGTGTGGCACGGTCCTGCC[ct]GGCAGGTTTACCGGATCCTGGTGAAGAGGTTGAGCACAGACACAGACTCCTGCA
GACACA
A GGAGACATAGACCCAAGCAGCGAGCCCT
A CGCGCCGAGGACGCGGCAATTTAGGY
A ATGACGTGGCAGACGCGCGGCAATTTAGGY
A GTTCCCTAAATTGCCGCGTGGGCTCGCTGCTTGGGTCTATGTCTCCTC
A GTTCCCTAAATTGCCGCGCGGGCTCGCTGCTTGGGTCTATGTCTCCTC
41278 IS [cg]
41280 I
41280 P a
41280 P c
41280 T a
41280 T c
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GAACCAACTGTGTGTGCTGCGGGGGTCCCTTGCCACCCAAACTG
A GTTTCTGGCCTGAATTTGGAGGGAAGAAGTAATGGCT
A CGCGCCGAGGCCTAGTGTGGGACGAAY
A ATGACGTGGCAGACGCTAGTGTGGGACGAY
A GTGCTTCGTCCCACACTAGGGCCATTACTTCTTCCCTCCAAATTCAGGCCAGAAACTG
A GTGCTTCGTCCCACACTAGCGCCATTACTTCTTCCCTCCAAATTCAGGCCAGAAACTG
41280 IS [cg]
41281 I
41281 P a
41281 P c
41281 T a
41281 T c
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GCACAGATCCCAGCACTTTTCCCAGCTTTCTCTCCAGCATCAGTC
A CGTCCTTGCCCACCTCTCTCCCGGT
A CGCGCCGAGGATCTTTTCCCTCTTTTCCCY
A ATGACGTGGCAGACCTCTTTTCCCTCTTTTCCCY
A CCGGGGGAAAAGAGGGAAAAGATCCGGGAGAGAGGTGGGCAAGGACGAG
A CCGGGGGAAAAGAGGGAAAAGAGCCGGGAGAGAGGTGGGCAAGGACGAG
41280 IS [ac]
41281 I
41281 P a
41281 P c
41281 T a
41281 T c
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CCCCCGGTTTCCCCCTCCTCATCCGGAGCTCCAAAATGGCGGCGC
A CTTTGCTCTTTTGCCAGATAAATGCCAGCCAGCT
A CGCGCCGAGGATCCCTGTCTCTGGGY
A ATGACGTGGCAGACCTCCCTGTCTCTGGGY
A GGGCCCCAGAGACAGGGAGGCTGGCTGGCATTTATCTGGCAAAAGAGCAAAGCA
A GGGCCCCAGAGACAGGGAGGCTGGCTGGCATTTATCTGGCAAAAGAGCAAAGCA
41281 IS [ac]
41283 I
41283 P a
41283 P g
41283 T a
41283 T g
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ggct
A GCCCAGACTCACTTTGGAATGCCTGTTGGGT
A CGCGCCGAGGAGAATCTTTGCCTGCTGY
A ATGACGTGGCAGACGGAATCTTTGCCTGCTGY
A GATGCAGCAGGCAAAGATTCTCCCAACAGGCATTCCAAAGTGAGTCTGGGCCC
A GATGCAGCAGGCAAAGATTCCCCCAACAGGCATTCCAAAGTGAGTCTGGGCCC
41283 IS [ag]
41295 I
41295 P c
41295 P g
41295 T c
41295 T g
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S ATGACGTGGCAGACGCCTTCCTGGAGAGGY
S CGCGCCGAGGCCCTTCCTGGAGAGGY
S ACATCCTCTCCAGGAAGGCAGTGAGGGGCTGTGACATTTTTCCGGAGAAGATT
S ACATCCTCTCCAGGAAGGGAGTGAGGGGCTGTGACATTTTTCCGGAGAAGATT
41295 IS [cg]
41300 I
41300 P c
41300 P g
41300 T c
41300 T g
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ACATTTTTCCGGAGAAGATTTCAGAGCTGAGGCTTTGGTACCCCCA
FOSB
A TGCGAGGGGAGGGGAAGCAAAGGAGT
A CGCGCCGAGGCACAGGTAGTCCACAGAY
A ATGACGTGGCAGACGACAGGTAGTCCACAGAAY
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A CYTATTCTGTGGACTACCTGTCCTCCTTTGCTTCCCCTCCCCTCGCATA
41300 IS [cg]
41303 I
41303 P c
41303 P t
41303 T c
41303 T t
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S ATGACGTGGCAGACGTGGCATTGTCGTTGATY
S CGCGCCGAGGATGGCATTGTCGTTGATY
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S GATCATCAACGACAATGCCATATACTGCCGTCTTGCCCAGTTTATTGGAAACCGAA
41303 IS [ct]
41311 I
41311 P c
41311 P t
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S ATGACGTGGCAGACGGTTACAGTTCTTCAGACAAY
S CGCGCCGAGGAGTTACAGTTCTTCAGACAAAAY
41311 T c
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41311 T t
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41311 IS [ct]
41335 I
41335 P a
41335 P g
41335 T a
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A GGACAAGCTAGGAGGCAGTGGCTTCAAGTCT
A CGCGCCGAGGATCCTCGTCCAGCACY
A ATGACGTGGCAGACGTCCTCGTCCAGCAY
A CGAGGTGCTGGACGAGGATGACTTGAAGCCACTGCCTCCTAGCTTGTCCCC

FIGURE 129D

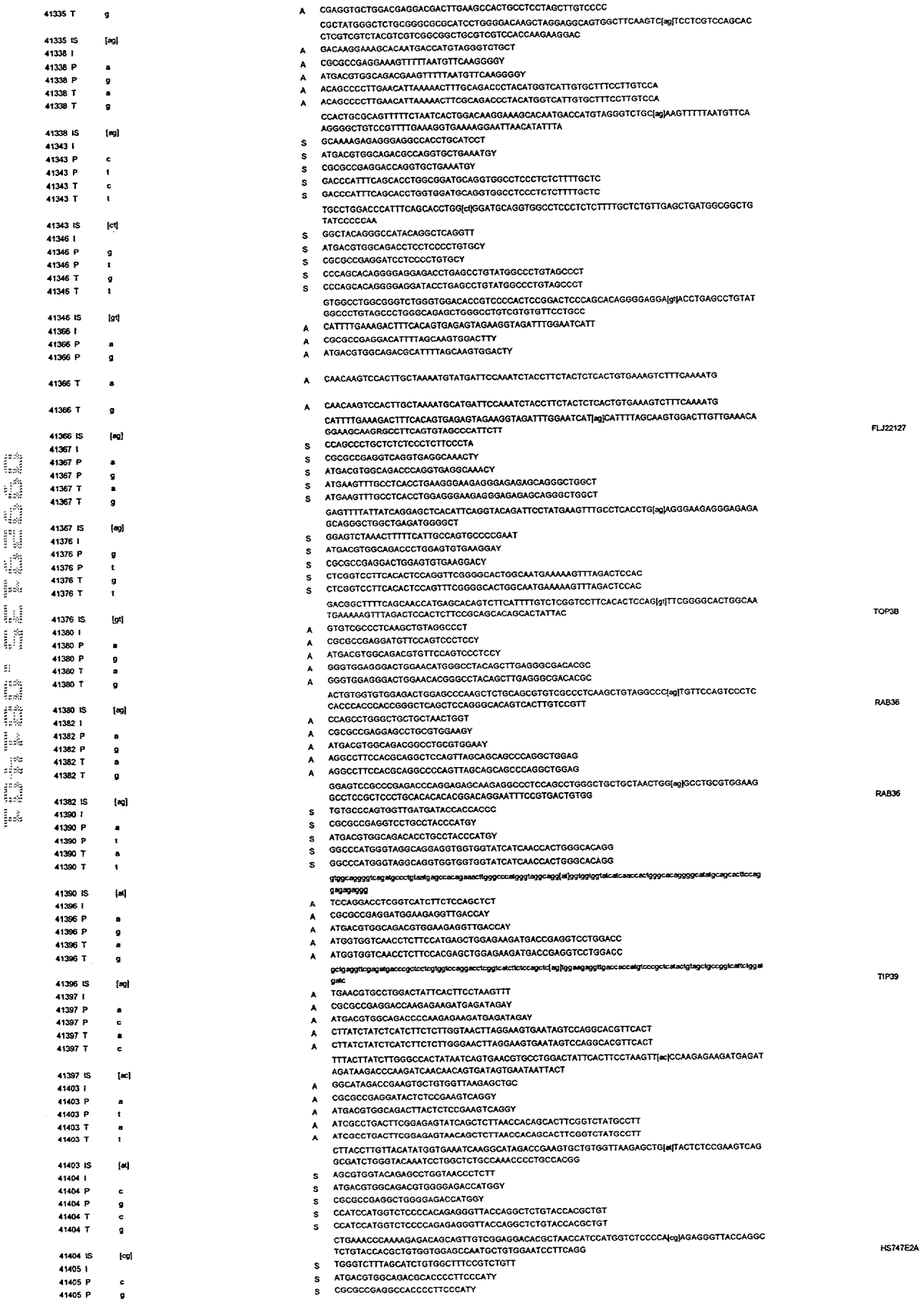

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41335 IS [ag]
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41338 I
A GACAAGGAAAGCACAATGACCATGTAGGGTGTGCT
41338 P a
A CGCGCCGAGGAAAGTTTTTAATGTTCAAGGGGY
41338 P g
A ATGACGTGGCAGACGAAGTTTTTAATGTTCAAGGGGY
41338 T a
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41338 T g
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41338 IS [ag]
AGGGGCTGTCCGTTTTGAAAGGTGAAAAGGAATTAACATATTTA
41343 I
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41343 P c
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41343 P t
S CGCGCCGAGGACCAGGTGCTGAAATGY
41343 T c
S GACCCATTTCAGCACCTGGCGGATGCAGGTGGCCTCCCTCTCTTTTGCTC
41343 T t
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41343 IS [ct]
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41346 I
S GGCTACAGGGCCATACAGGCTCAGGTT
41346 P g
S ATGACGTGGCAGACCTCCTCCCCTGTGCY
41346 P t
S CGCGCCGAGGATCCTCCCCTGTGCY
41346 T g
S CCCAGCACAGGGGAGGAGACCTGAGCCTGTATGGCCCTGTAGCCCT
41346 T t
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41346 IS [gt]
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41366 I
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41366 P a
A CGCGCCGAGGACATTTTAGCAAGTGGACTTY
41366 P g
A ATGACGTGGCAGACGCATTTTAGCAAGTGGACTY
41366 T a
A CAACAAGTCCACTTGCTAAAATGTATGATTCCAAATCTACCTTCTACTCTCACTGTGAAAGTCTTTCAAAATG
41366 T g
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41366 IS [ag]
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FLJ22127
41367 I
S CCAGCCCTGCTCTCTCCCTCTTCCCTA
41367 P a
S CGCGCCGAGGTCAGGTGAGGCAAACTY
41367 P g
S ATGACGTGGCAGACCCAGGTGAGGCAAACY
41367 T a
S ATGAAGTTTGCCTCACCTGAAGGGAAGAGGGAGAGAGCAGGGCTGGCT
41367 T g
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GAGTTTTATTATCAGGAGCTCACATTCAGGTACAGATTCCTATGAAGTTTGCCTCACCTG[ag]AGGGAAGAGGGAGAGA
41367 IS [ag]
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41376 I
S GGAGTCTAAACTTTTTCATTGCCAGTGCCCCGAAT
41376 P g
S ATGACGTGGCAGACCCTGGAGTGTGAAGGAY
41376 P t
S CGCGCCGAGGACTGGAGTGTGAAGGACY
41376 T g
S CTCGGTCCTTCACACTCCAGGTTCGGGGCACTGGCAATGAAAAAGTTTAGACTCCAC
41376 T t
S CTCGGTCCTTCACACTCCAGTTTCGGGGCACTGGCAATGAAAAAGTTTAGACTCCAC
GACGGCTTTTCAGCAACCATGAGCACAGTCTTCATTTTGTCTCGGTCCTTCACACTCCAG[gt]TTCGGGGCACTGGCAA
41376 IS [gt]
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TOP3B
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A CGCGCCGAGGATGTTCCAGTCCCTCCY
A ATGACGTGGCAGACGTGTTCCAGTCCCTCCY
A GGGTGGAGGGACTGGAACATGGGCCTACAGCTTGAGGGCGACACGC
A GGGTGGAGGGACTGGAACACGGGCCTACAGCTTGAGGGCGACACGC
ACTGTGGTGTGGAGACTGGAGCCCAAGCTCTGCAGCGTGTCGCCCTCAAGCTGTAGGCCC[ag]TGTTCCAGTCCCTC
41380 IS [ag]
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RAB36
41382 I
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41382 P a
A CGCGCCGAGGAGCCTGCGTGGAAGY
41382 P g
A ATGACGTGGCAGACGGCCTGCGTGGAAY
41382 T a
A AGGCCTTCCACGCAGGCTCCAGTTAGCAGCAGCCCAGGCTGGAG
41382 T g
A AGGCCTTCCACGCAGGCCCCAGTTAGCAGCAGCCCAGGCTGGAG
GGAGTCCGCCCGAGACCCAGGAGAGCAAGAGGCCCTCCAGCCTGGGCTGCTGCTAACTGG[ag]GCCTGCGTGGAAG
41382 IS [ag]
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RAB36
41390 I
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41390 P a
S CGCGCCGAGGTCCTGCCTACCCATGY
41390 P t
S ATGACGTGGCAGACACCTGCCTACCCATGY
41390 T a
S GGCCCATGGGTAGGCAGGAGGTGGTGGTGGTATCATCAACCACTGGGCACAGG
41390 T t
S GGCCCATGGGTAGGCAGGTGGTGGTGGTATCATCAACCACTGGGCACAGG
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41390 IS [at]
gagagaggg
41396 I
A TCCAGGACCTCGGTCATCTTCTCCAGCTCT
41396 P a
A CGCGCCGAGGATGGAAGAGGTTGACCAY
41396 P g
A ATGACGTGGCAGACGTGGAAGAGGTTGACCAY
41396 T a
A ATGGTGGTCAACCTCTTCCATGAGCTGGAGAAGATGACCGAGGTCCTGGACC
41396 T g
A ATGGTGGTCAACCTCTTCCACGAGCTGGAGAAGATGACCGAGGTCCTGGACC
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41396 IS [ag]
gatc
TIP39
41397 I
A TGAACGTGCCTGGACTATTCACTTCCTAAGTTT
41397 P a
A CGCGCCGAGGACCAAGAGAAGATGAGATAGAY
41397 P c
A ATGACGTGGCAGACCCCAAGAGAAGATGAGATAGAY
41397 T a
A CTTATCTATCTCATCTTCTCTTGGTAACTTAGGAAGTGAATAGTCCAGGCACGTTCACT
41397 T c
A CTTATCTATCTCATCTTCTCTTGGGAACTTAGGAAGTGAATAGTCCAGGCACGTTCACT
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41397 IS [ac]
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41403 I
A GGCATAGACCGAAGTGCTGTGGTTAAGAGCTGC
41403 P a
A CGCGCCGAGGATACTCTCCGAAGTCAGGY
41403 P t
A ATGACGTGGCAGACTTACTCTCCGAAGTCAGGY
41403 T a
A ATCGCCTGACTTCGGAGAGTATCAGCTCTTAACCACAGCACTTCGGTCTATGCCTT
41403 T t
A ATCGCCTGACTTCGGAGAGTAACAGCTCTTAACCACAGCACTTCGGTCTATGCCTT
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41403 IS [at]
GCGATCTGGGTACAAATCCTGGCTCTGCCAAACCCCTGCCACGG
41404 I
S AGCGTGGTACAGAGCCTGGTAACCCTCTT
41404 P c
S ATGACGTGGCAGACGTGGGGAGACCATGGY
41404 P g
S CGCGCCGAGGCTGGGGAGACCATGGY
41404 T c
S CCATCCATGGTCTCCCCACAGAGGGTTACCAGGCTCTGTACCACGCTGT
41404 T g
S CCATCCATGGTCTCCCCACAGAGGGTTACCAGGCTCTGTACCACGCTGT
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41404 IS [cg]
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HS747E2A
41405 I
S TGGGTCTTTAGCATCTGTGGCTTTCCGTCTGTT
41405 P c
S ATGACGTGGCAGACGCACCCCTTCCCATY
41405 P g
S CGCGCCGAGGCCACCCCTTCCCATY

FIGURE 129D

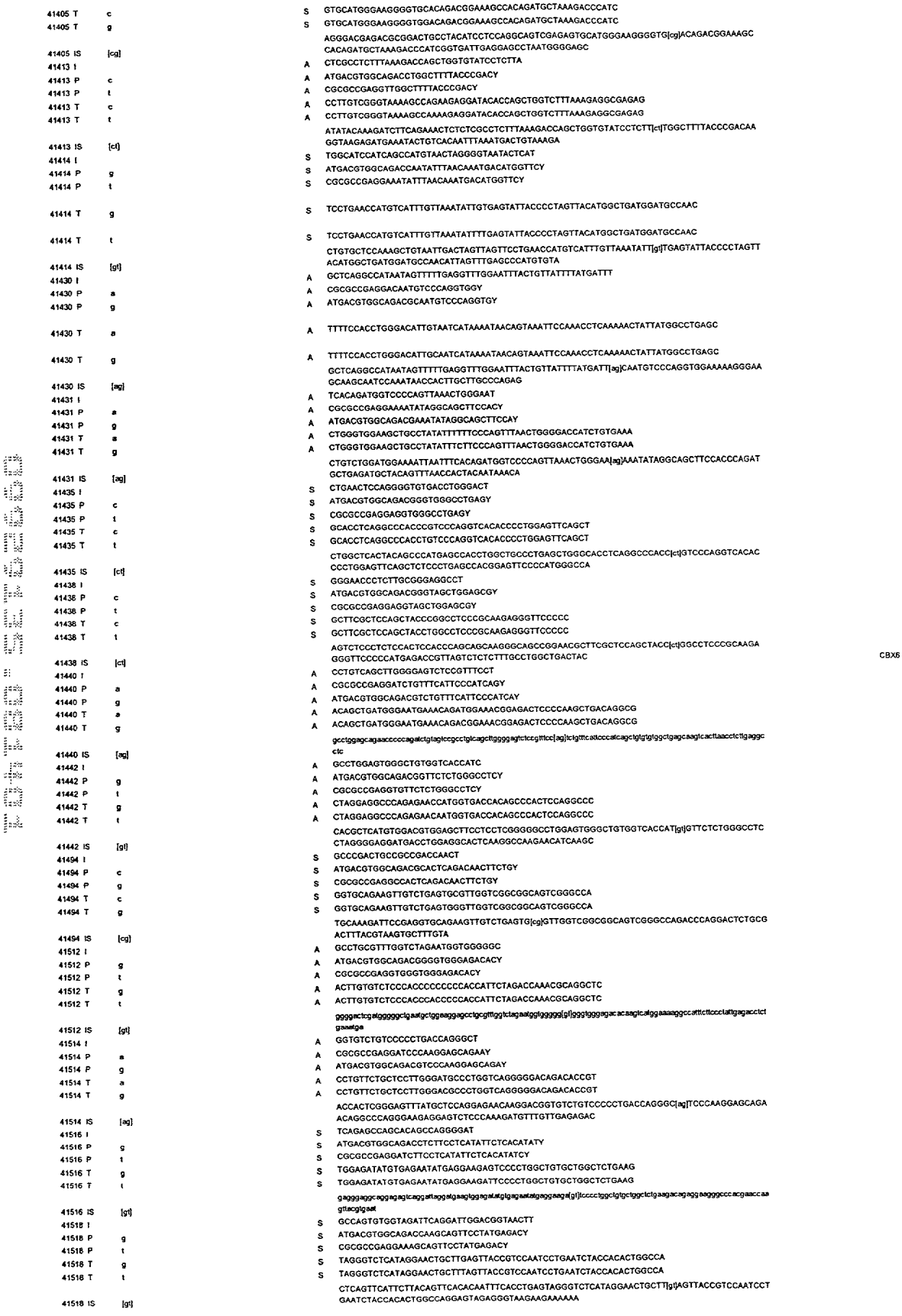

41405 T c
41405 T g
41405 IS [cg]
41413 I
41413 P c
41413 P t
41413 T c
41413 T t
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41414 P g
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41430 I
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41430 P g
41430 T a
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41431 P g
41431 T a
41431 T g
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41435 I
41435 P c
41435 P t
41435 T c
41435 T t
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41438 I
41438 P c
41438 P t
41438 T c
41438 T t
41438 IS [ct]
41440 I
41440 P a
41440 P g
41440 T a
41440 T g
41440 IS [ag]
41442 I
41442 P g
41442 P t
41442 T g
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41494 P c
41494 P g
41494 T c
41494 T g
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41512 I
41512 P g
41512 P t
41512 T g
41512 T t
41512 IS [gt]
41514 I
41514 P a
41514 P g
41514 T a
41514 T g
41514 IS [ag]
41516 I
41516 P g
41516 P t
41516 T g
41516 T t
41516 IS [gt]
41518 I
41518 P g
41518 P t
41518 T g
41518 T t
41518 IS [gt]
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A ATGACGTGGCAGACCTGGCTTTTACCCGACY
A CGCGCCGAGGTTGGCTTTTACCCGACY
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S CGCGCCGAGGAAATATTTAACAAATGACATGGTTCY
S TCCTGAACCATGTCATTTGTTAAATATTGTGAGTATTACCCCTAGTTACATGGCTGATGGATGCCAAC
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S ATGACGTGGCAGACGGGTAGCTGGAGCGY
S CGCGCCGAGGAGGTAGCTGGAGCGY
S GCTTCGCTCCAGCTACCCGGGCCTCCCGCAAGAGGGTTCCCCC
S GCTTCGCTCCAGCTACCTGGCCTCCCGCAAGAGGGTTCCCCC
AGTCTCCCTCTCCACTCCACCCAGCAGCAAGGGCAGCCGGAACGCTTCGCTCCAGCTACC[ct]GGCCTCCCGCAAGA
GGGTTCCCCCATGAGACCGTTAGTCTCTCTTTGCCTGGCTGACTAC
A CCTGTCAGCTTGGGGAGTCTCCGTTTCCT
A CGCGCCGAGGATCTGTTTCATTCCCATCAGY
A ATGACGTGGCAGACGTCTGTTTCATTCCCATCAY
A ACAGCTGATGGGAATGAAACAGATGGAAACGGAGACTCCCCAAGCTGACAGGCG
A ACAGCTGATGGGAATGAAACAGACGGAAACGGAGACTCCCCAAGCTGACAGGCG
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A ATGACGTGGCAGACGGTTCTCTGGGCCTCY
A CGCGCCGAGGTGTTCTCTGGGCCTCY
A CTAGGAGGCCCAGAGAACCATGGTGACCACAGCCCACTCCAGGCCC
A CTAGGAGGCCCAGAGAACAATGGTGACCACAGCCCACTCCAGGCCC
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S GCCCGACTGCCGCCGACCAACT
S ATGACGTGGCAGACGCACTCAGACAACTTCTGY
S CGCGCCGAGGCCACTCAGACAACTTCTGY
S GGTGCAGAAGTTGTCTGAGTGCGTTGGTCGGCGGCAGTCGGGCCA
S GGTGCAGAAGTTGTCTGAGTGGGTTGGTCGGCGGCAGTCGGGCCA
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A GCCTGCGTTTGGTCTAGAATGGTGGGGGC
A ATGACGTGGCAGACGGGGTGGGAGACACY
A CGCGCCGAGGTGGGTGGGAGACACY
A ACTTGTGTCTCCCACCCCCCCCCACCATTCTAGACCAAACGCAGGCTC
A ACTTGTGTCTCCCACCCACCCCCACCATTCTAGACCAAACGCAGGCTC
ggggactcgatggggggctgaatgctggaaggagcctgcgtttggtctagaatggtgggggg[gt]gggtgggagacacaagtcatggaaaaggccatttcttccctattgagacctct
gaaatga
A GGTGTCTGTCCCCCTGACCAGGGCT
A CGCGCCGAGGATCCCAAGGAGCAGAAY
A ATGACGTGGCAGACGTCCCAAGGAGCAGAY
A CCTGTTCTGCTCCTTGGGATGCCCTGGTCAGGGGGACAGACACCGT
A CCTGTTCTGCTCCTTGGGACGCCCTGGTCAGGGGGACAGACACCGT
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ACAGGCCCAGGGAAGAGGAGTCTCCCAAAGATGTTTGTTGAGAGAC
S TCAGAGCCAGCACAGCCAGGGGAT
S ATGACGTGGCAGACCTCTTCCTCATATTCTCACATATY
S CGCGCCGAGGATCTTCCTCATATTCTCACATATCY
S TGGAGATATGTGAGAATATGAGGAAGAGTCCCCTGGCTGTGCTGGCTCTGAAG
S TGGAGATATGTGAGAATATGAGGAAGATTCCCCTGGCTGTGCTGGCTCTGAAG
gaggaggcaggaagagtcaggatagatgaagtggagatatgtgagaatatgaggaagat[gt]tccccctggctgtgctggctctgaagacagaggaagggcccacgaaccaa
gttacgtgaat
S GCCAGTGTGGTAGATTCAGGATTGGACGGTAACTT
S ATGACGTGGCAGACCAAGCAGTTCCTATGAGACY
S CGCGCCGAGGAAAGCAGTTCCTATGAGACY
S TAGGGTCTCATAGGAACTGCTTGAGTTACCGTCCAATCCTGAATCTACCACACTGGCCA
S TAGGGTCTCATAGGAACTGCTTTAGTTACCGTCCAATCCTGAATCTACCACACTGGCCA
CTCAGTTCATTCTTACAGTTCACACAATTTCACCTGAGTAGGGTCTCATAGGAACTGCTT[gt]AGTTACCGTCCAATCCT
GAATCTACCACACTGGCCAGGAGTAGAGGGTAAGAAGAAAAAA
CBX6

FIGURE 129D

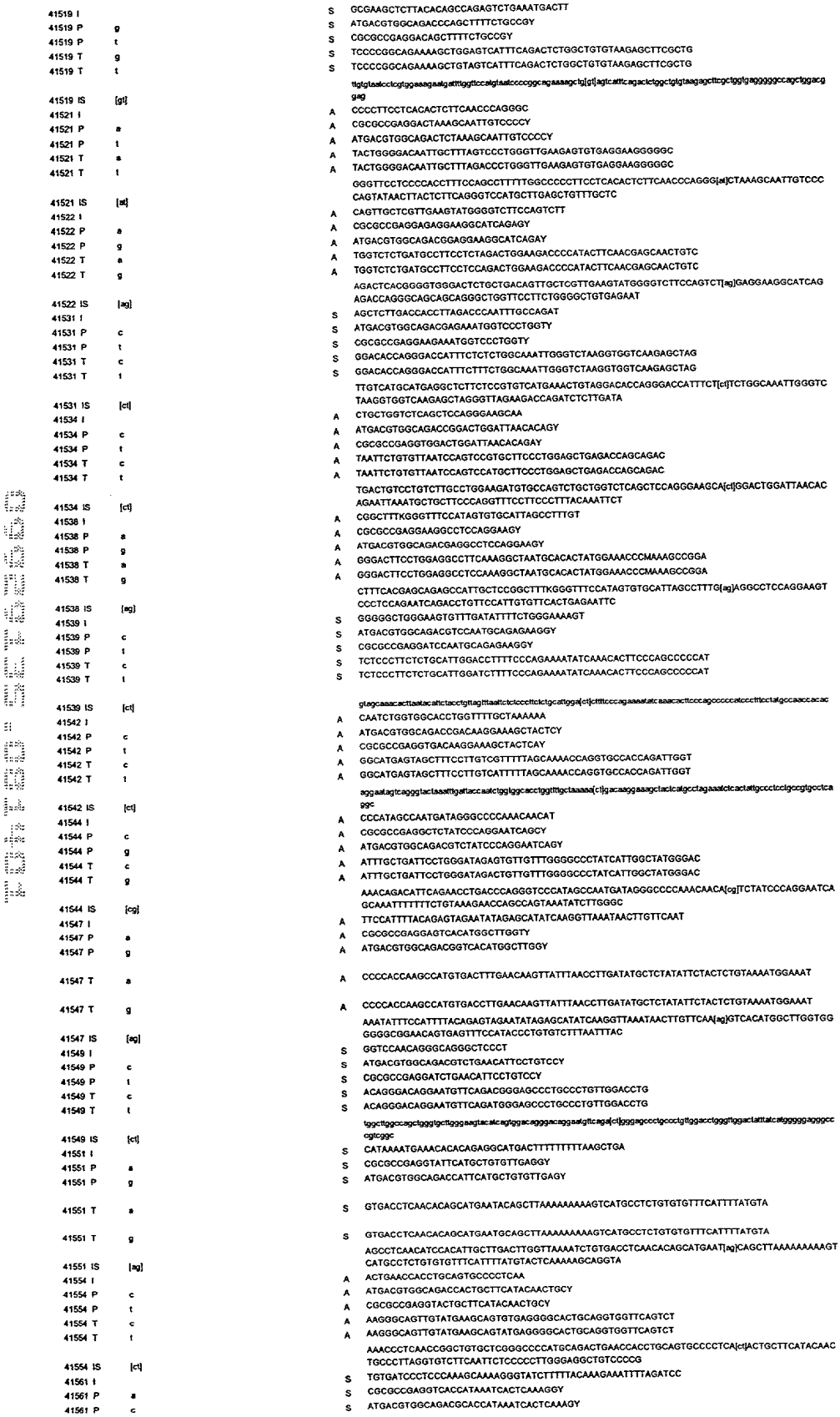

41519 I
41519 P g
41519 P t
41519 T g
41519 T t
41519 IS [gt]
41521 I
41521 P a
41521 P t
41521 T a
41521 T t
41521 IS [at]
41522 I
41522 P a
41522 P g
41522 T a
41522 T g
41522 IS [ag]
41531 I
41531 P c
41531 P t
41531 T c
41531 T t
41531 IS [ct]
41534 I
41534 P c
41534 P t
41534 T c
41534 T t
41534 IS [ct]
41538 I
41538 P a
41538 P g
41538 T a
41538 T g
41538 IS [ag]
41539 I
41539 P c
41539 P t
41539 T c
41539 T t
41539 IS [ct]
41542 I
41542 P c
41542 P t
41542 T c
41542 T t
41542 IS [ct]
41544 I
41544 P c
41544 P g
41544 T c
41544 T g
41544 IS [cg]
41547 I
41547 P a
41547 P g
41547 T a
41547 T g
41547 IS [ag]
41549 I
41549 P c
41549 P t
41549 T c
41549 T t
41549 IS [ct]
41551 I
41551 P a
41551 P g
41551 T a
41551 T g
41551 IS [ag]
41554 I
41554 P c
41554 P t
41554 T c
41554 T t
41554 IS [ct]
41561 I
41561 P a
41561 P c
S GCGAAGCTCTTACACAGCCAGAGTCTGAAATGACTT
S ATGACGTGGCAGACCCAGCTTTTCTGCCGY
S CGCGCCGAGGACAGCTTTTCTGCCGY
S TCCCCGGCAGAAAAGCTGGAGTCATTTCAGACTCTGGCTGTGTAAGAGCTTCGCTG
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gag
A CCCCTTCCTCACACTCTTCAACCCAGGGC
A CGCGCCGAGGACTAAAGCAATTGTCCCCY
A ATGACGTGGCAGACTCTAAAGCAATTGTCCCCY
A TACTGGGGACAATTGCTTTAGTCCCTGGGTTGAAGAGTGTGAGGAAGGGGGC
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A CAGTTGCTCGTTGAAGTATGGGGTCTTCCAGTCTT
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A TGGTCTCTGATGCCTTCCTCTAGACTGGAAGACCCCATACTTCAACGAGCAACTGTC
A TGGTCTCTGATGCCTTCCTCCAGACTGGAAGACCCCATACTTCAACGAGCAACTGTC
AGACTCACGGGGTGGGACTCTGCTGACAGTTGCTCGTTGAAGTATGGGGTCTTCCAGTCT[ag]GAGGAAGGCATCAG
AGACCAGGGCAGCAGCAGGGCTGGTTCCTTCTGGGGCTGTGAGAAT
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S CGCGCCGAGGAAGAAATGGTCCCTGGTY
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A CTGCTGGTCTCAGCTCCAGGGAAGCAA
A ATGACGTGGCAGACCGGACTGGATTAACACAGY
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A CGCGCCGAGGAAGGCCTCCAGGAAGY
A ATGACGTGGCAGACGAGGCCTCCAGGAAGY
A GGGACTTCCTGGAGGCCTTCAAAGGCTAATGCACACTATGGAAACCCMAAAGCCGGA
A GGGACTTCCTGGAGGCCTCCAAAGGCTAATGCACACTATGGAAACCCMAAAGCCGGA
CTTTCACGAGCAGAGCCATTGCTCCGGCTTTKGGGTTTCCATAGTGTGCATTAGCCTTTG[ag]AGGCCTCCAGGAAGT
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A CAATCTGGTGGCACCTGGTTTTGCTAAAAAA
A ATGACGTGGCAGACCGACAAGGAAAGCTACTCY
A CGCGCCGAGGTGACAAGGAAAGCTACTCAY
A GGCATGAGTAGCTTTCCTTGTCGTTTTTAGCAAAACCAGGTGCCACCAGATTGGT
A GGCATGAGTAGCTTTCCTTGTCATTTTTAGCAAAACCAGGTGCCACCAGATTGGT
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A ATGACGTGGCAGACGTCTATCCCAGGAATCAGY
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S ATGACGTGGCAGACGTCTGAACATTCCTGTCCY
S CGCGCCGAGGATCTGAACATTCCTGTCCY
S ACAGGGACAGGAATGTTCAGACGGGAGCCCTGCCCTGTTGGACCTG
S ACAGGGACAGGAATGTTCAGATGGGAGCCCTGCCCTGTTGGACCTG
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cgtcggc
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S CGCGCCGAGGTATTCATGCTGTGTTGAGGY
S ATGACGTGGCAGACCATTCATGCTGTGTTGAGY
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S TGTGATCCCTCCCAAAGCAAAAGGGTATCTTTTTACAAAGAAATTTTAGATCC
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S ATGACGTGGCAGACGCACCATAAATCACTCAAAGY

FIGURE 129D

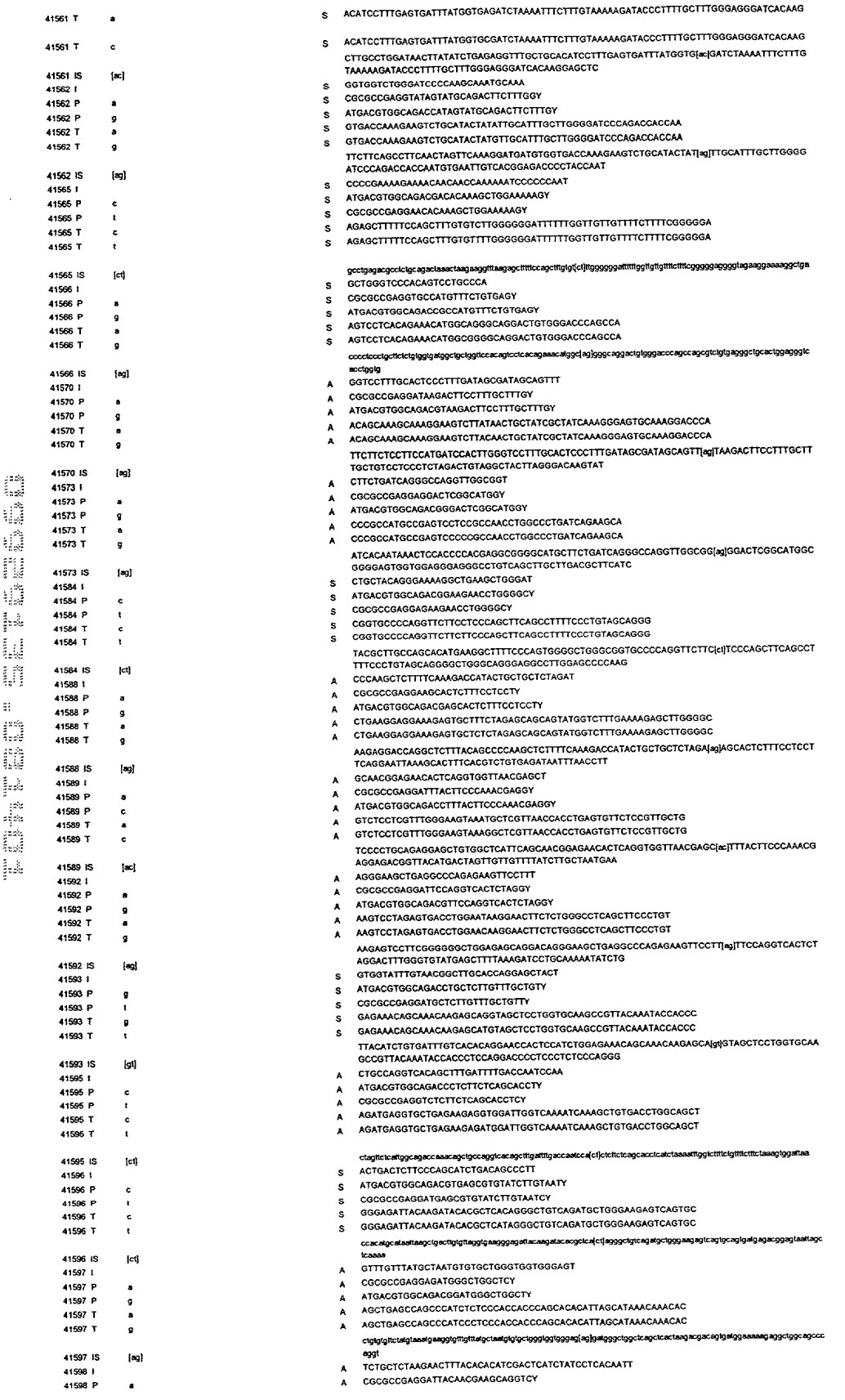

41561 T a
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41561 T c
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41561 IS [ac]
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TAAAAAGATACCCTTTTGCTTTGGGAGGGATCACAAGGAGCTC
41562 I
41562 P a
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41562 P g
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41562 T a
S ATGACGTGGCAGACCATAGTATGCAGACTTCTTTGY
41562 T g
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S GTGACCAAAGAAGTCTGCATACTATGTTGCATTTGCTTGGGGATCCCAGACCACCAA
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41565 I
S CCCCGAAAAGAAAACAACAACCAAAAAATCCCCCCAAT
41565 P c
S ATGACGTGGCAGACGACACAAAGCTGGAAAAAGY
41565 P t
S CGCGCCGAGGAACACAAAGCTGGAAAAAGY
41565 T c
S AGAGCTTTTTCCAGCTTTGTGTCTTGGGGGGATTTTTTGGTTGTTGTTTTCTTTTCGGGGGA
41565 T t
S AGAGCTTTTTCCAGCTTTGTGTTTTGGGGGGATTTTTTGGTTGTTGTTTTCTTTTCGGGGGA
41565 IS [ct]
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41566 I
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41566 P a
S CGCGCCGAGGTGCCATGTTTCTGTGAGY
41566 P g
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41566 T a
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41566 T g
S AGTCCTCACAGAAACATGGCGGGGCAGGACTGTGGGACCCAGCCA
41566 IS [ag]
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acctgggtg
41570 I
A GGTCCTTTGCACTCCCTTTGATAGCGATAGCAGTTT
41570 P a
A CGCGCCGAGGATAAGACTTCCTTTGCTTTGY
41570 P g
A ATGACGTGGCAGACGTAAGACTTCCTTTGCTTTGY
41570 T a
A ACAGCAAAGCAAAGGAAGTCTTATAACTGCTATCGCTATCAAAGGGAGTGCAAAGGACCCA
41570 T g
A ACAGCAAAGCAAAGGAAGTCTTACAACTGCTATCGCTATCAAAGGGAGTGCAAAGGACCCA
41570 IS [ag]
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TGCTGTCCTCCCTCTAGACTGTAGGCTACTTAGGGACAAGTAT
41573 I
A CTTCTGATCAGGGCCAGGTTGGCGGT
41573 P a
A CGCGCCGAGGAGGACTCGGCATGGY
41573 P g
A ATGACGTGGCAGACGGGACTCGGCATGGY
41573 T a
A CCCGCCATGCCGAGTCCTCCGCCAACCTGGCCCTGATCAGAAGCA
41573 T g
A CCCGCCATGCCGAGTCCCCCGCCAACCTGGCCCTGATCAGAAGCA
41573 IS [ag]
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GGGGAGTGGTGGAGGGAGGGCCTGTCAGCTTGCTTGACGCTTCATC
41584 I
S CTGCTACAGGGAAAAGGCTGAAGCTGGGAT
41584 P c
S ATGACGTGGCAGACGGAAGAACCTGGGGCY
41584 P t
S CGCGCCGAGGAGAAGAACCTGGGGCY
41584 T c
S CGGTGCCCCAGGTTCTTCCTCCCAGCTTCAGCCTTTTCCCTGTAGCAGGG
41584 T t
S CGGTGCCCCAGGTTCTTCTTCCCAGCTTCAGCCTTTTCCCTGTAGCAGGG
41584 IS [ct]
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TTTCCCTGTAGCAGGGGCTGGGCAGGGAGGCCTTGGAGCCCCAAG
41588 I
A CCCAAGCTCTTTTCAAAGACCATACTGCTGCTCTAGAT
41588 P a
A CGCGCCGAGGAAGCACTCTTTCCTCCTY
41588 P g
A ATGACGTGGCAGACGAGCACTCTTTCCTCCTY
41588 T a
A CTGAAGGAGGAAAGAGTGCTTTCTAGAGCAGCAGTATGGTCTTTGAAAAGAGCTTGGGGC
41588 T g
A CTGAAGGAGGAAAGAGTGCTCTCTAGAGCAGCAGTATGGTCTTTGAAAAGAGCTTGGGGC
41588 IS [ag]
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TCAGGAATTAAAGCACTTTCACGTCTGTGAGATAATTTAACCTT
41589 I
A GCAACGGAGAACACTCAGGTGGTTAACGAGCT
41589 P a
A CGCGCCGAGGATTTACTTCCCAAACGAGGY
41589 P c
A ATGACGTGGCAGACCTTTACTTCCCAAACGAGGY
41589 T a
A GTCTCCTCGTTTGGGAAGTAAATGCTCGTTAACCACCTGAGTGTTCTCCGTTGCTG
41589 T c
A GTCTCCTCGTTTGGGAAGTAAAGGCTCGTTAACCACCTGAGTGTTCTCCGTTGCTG
41589 IS [ac]
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42592 I
A AGGGAAGCTGAGGCCCAGAGAAGTTCCTTT
42592 P a
A CGCGCCGAGGATTCCAGGTCACTCTAGGY
42592 P g
A ATGACGTGGCAGACGTTCCAGGTCACTCTAGGY
42592 T a
A AAGTCCTAGAGTGACCTGGAATAAGGAACTTCTCTGGGCCTCAGCTTCCCTGT
42592 T g
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42592 IS [ag]
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42593 I
S GTGGTATTTGTAACGGCTTGCACCAGGAGCTACT
42593 P g
S ATGACGTGGCAGACCTGCTCTTGTTTGCTGTY
42593 P t
S CGCGCCGAGGATGCTCTTGTTTGCTGTTY
42593 T g
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42593 T t
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GCCGTTACAAATACCACCCTCCAGGACCCCTCCCTCTCCCAGGG
41595 I
A CTGCCAGGTCACAGCTTTGATTTTGACCAATCCAA
41595 P c
A ATGACGTGGCAGACCCTCTTCTCAGCACCTY
41595 P t
A CGCGCCGAGGTCTCTTCTCAGCACCTCY
41595 T c
A AGATGAGGTGCTGAGAAGAGGTGGATTGGTCAAAATCAAAGCTGTGACCTGGCAGCT
41595 T t
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41596 P c
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41596 P t
S CGCGCCGAGGATGAGCGTGTATCTTGTAATCY
41596 T c
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41596 T t
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tcaaaa
41597 I
A GTTTGTTTATGCTAATGTGTGCTGGGTGGTGGGAGT
41597 P a
A CGCGCCGAGGAGATGGGCTGGCTCY
41597 P g
A ATGACGTGGCAGACGGATGGGCTGGCTY
41597 T a
A AGCTGAGCCAGCCCATCTCTCCCACCACCCAGCACACATTAGCATAAACAAACAC
41597 T g
A AGCTGAGCCAGCCCATCCCTCCCACCACCCAGCACACATTAGCATAAACAAACAC
41597 IS [ag]
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aggt
41598 I
A TCTGCTCTAAGAACTTTACACACATCGACTCATCTATGCTCACAATT
41598 P a
A CGCGCCGAGGATTACAACGAAGCAGGTCY

FIGURE 129D

```
41598 P    g      A  ATGACGTGGCAGACGTTACAACGAAGCAGGTY

41598 T    a      A  ACAGGACCTGCTTCGTTGTAATATTGTGAGGATAGATGAGTCGATGTGTGTAAAGTTCTTAGAGCAGAGC

41598 T    g      A  ACAGGACCTGCTTCGTTGTAACATTGTGAGGATAGATGAGTCGATGTGTGTAAAGTTCTTAGAGCAGAGC
                     AGCATATGCCCTGCTCTGCTCTAAGAACTTTACACACATCGACTCATCTATCCTCACAAT[ag]TTACAACGAAGCAGGTC
                     CTGTTATGATTTCTATTTGTAGATGAAAAGATGGAGCTCAGAG
41598 IS   [ag]
41599 I            S  GAACCRGCGGTTAACTGTTTGTAACTTGTCACAGA
41599 P    a       S  CGCGCCGAGGTGAGTATCTTCACATCACAAAAY
41599 P    g       S  ATGACGTGGCAGACCGAGTATCTTCACATCACAAY
41599 T    a       S  TGTTTTTTGTGATGTGAAGATACTCACTGTGACAAGTTACAAACAGTTAACCGCYGGTTCAT
41599 T    g       S  TGTTTTTTGTGATGTGAAGATACTCGCTGTGACAAGTTACAAACAGTTAACCGCYGGTTCAT
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                     ACAGTTAACCGCYGGTTCATAAAATTCCTGAAAATGTCACAACC
41599 IS   [ag]
41602 I            A  CCTGAATTCCATTCCCTGACGGCACTTATTTTATAATCTTTAGTGTGAAT
41602 P    a       A  CGCGCCGAGGATCAAGACAAAGGCTTTTAGAY
41602 P    c       A  ATGACGTGGCAGACCTCAAGACAAAGGCTTTTAGAY

41602 T    a       A  ATCTTCTAAAAGCCTTTGTCTTGATTTCACACTAAAGATTATAAAATAAGTGCCGTCAGGGAATGGAATTCAGGGA

41602 T    c       A  ATCTTCTAAAAGCCTTTGTCTTGAGTTCACACTAAAGATTATAAAATAAGTGCCGTCAGGGAATGGAATTCAGGGA

41602 IS   [ac]       agtcattgtccctgaattccattccctgacggcacttatttttataatctttagtgtgaa[ac]tcaagacaaaggctttagaagattcaaaataagtcaggcaaatcttcttgcagaaactc
41603 I            A  CCATATTTGCCTTCTCTGTTGATAGGTCGGCTCTGCT
41603 P    a       A  CGCGCCGAGGAAGGTAGGAGGTGTGTTY
41603 P    g       A  ATGACGTGGCAGACGAGGTAGGAGGTGTGTTY
41603 T    a       A  CAAGAACACACCTCCTACCTTGCAGAGCCGACCTATCAACAGAGAAGGCAAATATGGTG
41603 T    g       A  CAAGAACACACCTCCTACCTCGCAGAGCCGACCTATCAACAGAGAAGGCAAATATGGTG
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                     TCTTGCCTTTGCTATGTGTTGGTGGCATCTACACAGTGCCTGGCA
41603 IS   [ag]
41606 I            A  GGGAAGCCTCATCCAGCAGAAAAGCAGAGAA
41606 P    c       A  ATGACGTGGCAGACCGCTTTTGAGTTTCAAGAACY
41606 P    t       A  CGCGCCGAGGTGCTTTTGAGTTTCAAGAACY
41606 T    c       A  ATTGGTTCTTGAAACTCAAAAGCGTCTCTGCTTTTCTGCTGGATGAGGCTTCCCCT
41606 T    t       A  ATTGGTTCTTGAAACTCAAAAGCATCTCTGCTTTTCTGCTGGATGAGGCTTCCCCT
                     CTTTCCAGACAGTGGCTCTTCTTCCTTTAGGGGAAGCCTCATCCAGCAGAAAAGCAGAGA[ct]GCTTTTGAGTTTCAAG
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41606 IS   [ct]
41611 I            A  CTTCATAGAGCTTACACCAGGGATGTGGGCTATGGT
41611 P    a       A  CGCGCCGAGGACATAGAAACAGGCAAGGY
41611 P    g       A  ATGACGTGGCAGACGCATAGAAACAGGCAAGGY
41611 T    a       A  GTTGCCTTGCCTGTTTCTATGTCCATAGCCCACATCCCTGGTGTAAGCTCTATGAAGGC
41611 T    g       A  GTTGCCTTGCCTGTTTCTATGCCCATAGCCCACATCCCTGGTGTAAGCTCTATGAAGGC
                     TTGGTGCCATCTGCCCTGTGTCTGCCTTCATAGAGCTTACACCAGGGATGTGGGCTATGG[ag]CATAGAAACAGGCAA
                     GGCAACAAATAACATAAATAAACAAGATGATTACATGTTGTGGTC
41611 IS   [ag]
41612 I            A  GCATAGTGAAAGCCGCTCACCACTGGCTTAT
41612 P    a       A  CGCGCCGAGGAGAAACTCCCGGGAGY
41612 P    g       A  ATGACGTGGCAGACGGAAACTCCCGGGAGY
41612 T    a       A  CTGCCTCCCGGGAGTTTCTTAAGCCAGTGGTGAGCGGCTTTCACTATGCAT
41612 T    g       A  CTGCCTCCCGGGAGTTTCCTAAGCCAGTGGTGAGCGGCTTTCACTATGCAT
                     ttgctgttcctaaaactggccttttgtgcaatgcatagtgaaagccgctcaccactggctta[ag]gaaactcccgggaggcagttgcaaagcttttgagggagatcggaggtgggaca
                     gtttgc
41612 IS   [ag]
41616 I            A  TGCTTTGCTTACTGTTCTCGTAGGGCACAAAATTACCAT
41616 P    a       A  CGCGCCGAGGAGCTGGAGCAATGGAY
41616 P    g       A  ATGACGTGGCAGACGGCTGGAGCAATGGAY
41616 T    a       A  TCTGTCCATTGCTCCAGCTTGGTAATTTTGTGCCCTACGAGAACAGTAAGCAAAGCAGA
41616 T    g       A  TCTGTCCATTGCTCCAGCCTGGTAATTTTGTGCCCTACGAGAACAGTAAGCAAAGCAGA
                     CCCAGCCTCCCCCACCGGCCTCTGCTTTGCTTACTGTTCTCGTAGGGCACAAAATTACCA[ag]GCTGGAGCAATGGAC
                     AGAGATCAATCAGGAAGACCCAGGAAGGCTGGGTCAAGGGTTTGG
41616 IS   [ag]
41617 I            A  TTGGTCTGGACCAACCCCACACCTCACA
41617 P    c       A  ATGACGTGGCAGACCTGGATACAGACTGCAAAGY
41617 P    t       A  CGCGCCGAGGTTGGATACAGACTGCAAAGY
41617 T    c       A  AGGCCTTTGCAGTCTGTATCCAGGTGAGGTGTGGGGTTGGTCCAGACCAAGC
41617 T    t       A  AGGCCTTTGCAGTCTGTATCCAAGTGAGGTGTGGGGTTGGTCCAGACCAAGC
                     CGGCCTGCTTCAGGACTGCCCCCTACTTTCTGCTTGGTCTGGACCAACCCCACACCTCAC[ct]TGGATACAGACTGCA
                     AAGGCCTCCCCTGTGGTCTCCCTGCCCCCTGGCCTGCCCTCTCTC
41617 IS   [ct]
41619 I            A  GCACCTCTTCTTGGAGTAGCTCAAAGTCTCTTAAAATTTAGTAA
41619 P    c       A  ATGACGTGGCAGACCCTGACCCTTCCCAGY
41619 P    t       A  CGCGCCGAGGTCTGACCCTTCCCAGY
41619 T    c       A  TCCACTGGGAAGGGTCAGGTACTAAATTTTAAGAGACTTTGAGCTACTCCAAGAAGAGGTGCTT
41619 T    t       A  TCCACTGGGAAGGGTCAGATACTAAATTTTAAGAGACTTTGAGCTACTCCAAGAAGAGGTGCTT
                     TCCTCTAAAAGTTTTAAGCACCTCTTCTTGGAGTAGCTCAAAGTCTCTTAAAATTTAGTA[ct]CTGACCCTTCCCAGTGG
                     AAGGTGGGCCATGCCATTTGTCCAAAACTATGAGCCCAGGCTA
41619 IS   [ct]
41622 I            A  TCTGGGTAGCAGTTGTCTTTGTTGTGACTCTTTGAGATCTTTT
41622 P    a       A  CGCGCCGAGGAGATTAGAGTGTTGCAGTTTTY
41622 P    c       A  ATGACGTGGCAGACCGATTAGAGTGTTGCAGTTY

41622 T    a       A  TGCCAAAACTGCAACACTCTAATCTAAAGATCTCAAAGAGTCACAACAAAGACAACTGCTACCCAGACA

41622 T    c       A  TGCCAAAACTGCAACACTCTAATCGAAAGATCTCAAAGAGTCACAACAAAGACAACTGCTACCCAGACA
                     CAGTATTACACAATGTTGTCTGGGTAGCAGTTGTCTTTGTTGTGACTCTTTGAGATCTTT[ac]GATTAGAGTGTTGCAGT
                     TTTGGCACTATTGACATTTGGGCTGGGAATTCTTTGTCGTGGG
41622 IS   [ac]
41624 I            A  TGCCAACAAATGGGGACAATCTGTCTGAGAATTAACTGGTATAAAT
41624 P    a       A  CGCGCCGAGGAGATAGCAAACCCAAGAGY
41624 P    c       A  ATGACGTGGCAGACCGATAGCAAACCCAAGAGY

41624 T    a       A  TCACCTCTTGGGTTTGCTATCTTTTATACCAGTTAATTCTCAGACAGATTGTCCCCATTTGTTGGCAAA

41624 T    c       A  TCACCTCTTGGGTTTGCTATCGTTTATACCAGTTAATTCTCAGACAGATTGTCCCCATTTGTTGGCAAA
                     GTCTTGTGACCATTTTGCCAACAAATGGGGACAATCTGTCTGAGAATTAACTGGTATAAA[ac]GATAGCAAACCCAAGA
                     GGTGAAGAAGGCTGAGTGTCTTGAAAGCAACATCGGACACCCTG
41624 IS   [ac]
41625 I            A  ACCTGCCTTTTGGCTGGGGCCAT
41625 P    a       A  CGCGCCGAGGATGGCAGTTCCTGTTAACY
41625 P    g       A  ATGACGTGGCAGACGTGGCAGTTCCTGTTAACY
41625 T    a       A  CCTGGTTAACAGGAACTGCCATTGGCCCCAGCCAAAAGGCAGGTGA
41625 T    g       A  CCTGGTTAACAGGAACTGCCACTGGCCCCAGCCAAAAGGCAGGTGA
                     GGCAGGAAGGGGAGATGGCAGCACAGGGCCCTGCCCTCACCTGCCTTTTGGCTGGGGCCA[ag]TGGCAGTTCCTGTT
                     AACCAGGAGGGCCTGAGGTTCCGCTGATCCGGAGGCCACAGTGCAC
41625 IS   [ag]
41629 I            S  GCCAGGGTATTCATGTTCTGGGTAGCATAACCCCA
41629 P    a       S  CGCGCCGAGGTGACCGCCAAACAACY
```

FIGURE 129D

41629	P	g	S	ATGACGTGGCAGACCGACCGCCAAACAACY
41629	T	a	S	GCTGGTTGTTTGGCGGTCAGGGGTTATGCTACCCAGAACATGAATACCCTGGCTC
41629	T	g	S	GCTGGTTGTTTGGCGGTCGGGGGTTATGCTACCCAGAACATGAATACCCTGGCTC
41629	IS	[ag]		ACAATGCAAATCAGGCCTAGGTGTGGAGCTTCTCTAAACTTAGCTGGTTGTTTGGCGGTC[ag]GGGGTTATGCTACCC AGAACATGAATACCCTGGCTCTCTGTTTG
41632	I		S	CAGGTACCAAGSTAAGCCCTGGCCCA
41632	P	a	S	CGCGCCGAGGTGTATCAAGCTCCTATAAGTGY
41632	P	g	S	ATGACGTGGCAGACCGTATCAAGCTCCTATAAGTGY
41632	T	a	S	GAGACACTTATAGGAGCTTGATACAGGGCCAGGGCTTASCTTGGTACCTGAG
41632	T	g	S	GAGACACTTATAGGAGCTTGATACGGGGCCAGGGCTTASCTTGGTACCTGAG
41632	IS	[ag]		AAAAAGCAAGCACATCAAGCCTTGTGAAGATGATAAGAGACACTTATAGGAGCTTGATAC[ag]GGGCCAGGGCTTASCT TGGTACCTGAGTAATAAAACTCTGCGTAGACAGCCCAAGCCCAA
41633	I		S	CCATTGGCCAAACCCAAATGGAGGCCAAAT
41633	P	c	S	ATGACGTGGCAGACGCTCATTGCAGGGAAGY
41633	P	t	S	CGCGCCGAGGACTCATTGCAGGGAAGGY
41633	T	c	S	TGCTCCTTCCCTGCAATGAGCTTTGGCCTCCATTTGGGTTTGGCCAATGGGA
41633	T	t	S	TGCTCCTTCCCTGCAATGAGTTTTGGCCTCCATTTGGGTTTGGCCAATGGGA
41633	IS	[ct]		AGTTCTGGGAGGCTGACCTGCAAGGAATGCATCCGAGGTCTGCTCCTTCCCTGCAATGAG[ct]TTTGGCCTCCATTTG GGTTTGGCCAATGGGAGACACCAGGAGGAGTCTAGAGGGTGCAGC
41634	I		A	GAAAGCGTACCCATTCGCTGCTGATCAGGATCA
41634	P	c	A	ATGACGTGGCAGACCATAATTCCTTCTCAGCTAAGAY
41634	P	t	A	CGCGCCGAGGTATAATTCCTTCTCAGCTAAGATTY
41634	T	c	A	GCTGAATCTTAGCTGAGAAGGAATTATGGATCCTGATCAGCAGCGAATGGGTACGCTTTCTG
41634	T	t	A	GCTGAATCTTAGCTGAGAAGGAATTATAGATCCTGATCAGCAGCGAATGGGTACGCTTTCTG
41634	IS	[ct]		CGGTCTGTAAAATCCAAAGGAAAACACAGAAAGCGTACCCATTCGCTGCTGATCAGGATC[ct]ATAATTCCTTCTCAGCT AAGATTCAGCACCAGGGCAGAGATCTTCAGAGAAGCCTTCTCT
41635	I		S	GTCTAGGGGAAAATAAGGGCTGGAGGGACCAAATT
41635	P	g	S	ATGACGTGGCAGACCAATGGTGGGGAGTGY
41635	P	t	S	CGCGCCGAGGAAATGGTGGGGAGTGGY
41635	T	g	S	CGTCCCACTCCCCACCATTGATTTGGTCCCTCCAGCCCTTATTTTCCCCTAGACCA
41635	T	t	S	CGTCCCACTCCCCACCATTTATTTGGTCCCTCCAGCCCTTATTTTCCCCTAGACCA
41635	IS	[gt]		AGGGCAGAGATCTTCAGAGAAGCCTTCTCTGACATCCATCTCGTCCCACTCCCCACCATT[gt]ATTTGGTCCCTCCAGC CCTTATTTTCCCCTAGACCACATATATTTCTCTGTTGTAGCTCC
41637	I		S	TCTTGTCATACTGCTGGGCACACAGTTGGCT
41637	P	c	S	ATGACGTGGCAGACGCTAAATAAATGCTAGAATATGAAGAY
41637	P	t	S	CGCGCCGAGGACTAAATAAATGCTAGAATATGAAGAGY
41637	T	c	S	CATCCTCTTCATATTCTAGCATTTATTTAGCGCCAACTGTGTGCCCAGCAGTATGACAAGAGC
41637	T	t	S	CATCCTCTTCATATTCTAGCATTTATTTAGTGCCAACTGTGTGCCCAGCAGTATGACAAGAGC
41637	IS	[ct]		atagcattggagtgttaccatcatcaacagcatcctcttcatattctagcatttatttag[ct]gccaactgtgtgcccagcagtatgacaagagcagtgcatacctctcttgtgtcatctt
41638	I		S	CCTTTTTCATTCCCTTCCCTTTTTCCTTCCCTTCTTCCT
41638	P	c	S	ATGACGTGGCAGACGTCCTGCTTTTAGGCAAAAY
41638	P	t	S	CGCGCCGAGGATCCTGCTTTTAGGCAAAAY
41638	T	c	S	AAGTTTTTGCCTAAAAGCAGGACGGAAGAAGGGAAGGAAAAAGGGAAGGGAATGAAAAAGGGG
41638	T	t	S	AAGTTTTTGCCTAAAAGCAGGATGGAAGAAGGGAAGGAAAAAGGGAAGGGAATGAAAAAGGGG
41638	IS	[ct]		CTTGTGGGGAGAGAAACTTATAGTATACTAAAGAGTCTAAGTTTTTGCCTAAAAGCAGGA[ct]GGAAGAAGGGAAGGAA AAAGGGAAGGGAATGAAAAAGGGGAGGGGAGGGCTGGGGAGGGA
41642	I		A	CACTGGGGAGCTCTGATTTGAGCATGTCATTCAT
41642	P	a	A	CGCGCCGAGGACCTCTTGACTGTGGGY
41642	P	g	A	ATGACGTGGCAGACGCCTCTTGACTGTGGGY
41642	T	a	A	AATCCCCACAGTCAAGAGGTTGAATGACATGCTCAAATCAGAGCTCCCCAGTGGC
41642	T	g	A	AATCCCCACAGTCAAGAGGCTGAATGACATGCTCAAATCAGAGCTCCCCAGTGGC
41642	IS	[ag]		GCAAGCTAGTCCCTGTGTTGTCCTGGCCACTGGGGAGCTCTGATTTGAGCATGTCATTCA[ag]CCTCTTGACTGTGGG GATTGATTTCAGCCCTGTGCTGCCCGTGCTGTCTGGCTTTCCATT
41643	I		S	GCTCTCTGCCAAAGGGGAGAAGAAAATAAGTCTCCAT
41643	P	c	S	ATGACGTGGCAGACGTGCATTTAGATTGGTCTCTY
41643	P	t	S	CGCGCCGAGGATGCATTTAGATTGGTCTCTCY
41643	T	c	S	TGATGAGAGACCAATCTAAATGCACTGGAGACTTATTTTCTTCTCCCCTTTGGCAGAGAGCAC
41643	T	t	S	TGATGAGAGACCAATCTAAATGCATTGGAGACTTATTTTCTTCTCCCCTTTGGCAGAGAGCAC
41643	IS	[ct]		GGTTAAGGAGACTAATAAAAACAAAAAGGAGAGAGATGATGAGAGACCAATCTAAATGCA[ct]TGGAGACTTATTTTCTT CTCCCCTTTGGCAGAGAGCAC
44898	I		S	CTACTCACTGTCCACATCTCTGAAAACCAGAGAGGTACAT
44898	P	c	S	ATGACGTGGCAGACGGATGGACATGTTGGCY
44898	P	t	S	CGCGCCGAGGAGATGGACATGTTGGCTY
44898	T	c	S	ATTTAGCCAACATGTCCATCCTGTACCTCTCTGGTTTTCAGAGATGTGGACAGTGAGTAGGG
44898	T	t	S	ATTTAGCCAACATGTCCATCTTGTACCTCTCTGGTTTTCAGAGATGTGGACAGTGAGTAGGG
44898	IS	[ct]		attacaggcatgagccaccatgccagcctatatatttattagccaacatgtccatc[ct]tgtacctctctggtttcagagatgtggacagtgagtaggggagtatatcaccgcagc aa
44909	I		A	CAGGTGAGAGCAGCTCGTTATCTCAGATTCCTCCT
44909	P	a	A	CGCGCCGAGGAGCATTCCAGATGGGATY
44909	P	g	A	ATGACGTGGCAGACGGCATTCCAGATGGGAY
44909	T	a	A	TCTGATCCCATCTGGAATGCTGGAGGAATCTGAGATAACGAGCTGCTCTCACCTGGG
44909	T	g	A	TCTGATCCCATCTGGAATGCCGGAGGAATCTGAGATAACGAGCTGCTCTCACCTGGG
44909	IS	[ag]		tatctaaaatgtgtactggagtcccaggtgagagcagctcgttatctctagatcctcc[ag]gcatccagatgggatcagagccacaccttggcatagccaaaacccccacggaa gtggttg
44911	I		S	TCTTGCTGCCATTCCAGACCATCCACCTTGA
44911	P	a	S	CGCGCCGAGGTATTCTCCAACTGCAGAACY
44911	P	g	S	ATGACGTGGCAGACCATTCTCCAACTGCAGAAY
44911	T	a	S	ATTTGTTCTGCAGTTGGAGAATACAAGGTGGATGGTCTGGAATGGCAGCAAGAGA
44911	T	g	S	ATTTGTTCTGCAGTTGGAGAATGCAAGGTGGATGGTCTGGAATGGCAGCAAGAGA
44911	IS	[ag]		TTCAGGGTTGACCTCTGGAGAGGCTAAATCTCCTTCCTATTTGTTCTGCAGTTGGAGAAT[ag]CAAGGTGGATGGTCTG GAATGGCAGCAAGAGAAGAGAGGTGGGTGCAGAGATGAAGAGGG
44912	I		A	AGAGCCCCCTGGGGCTGACCTTTTT
44912	P	a	A	CGCGCCGAGGATCAGGAAAACAACAGCTTY
44912	P	c	A	ATGACGTGGCAGACCTCAGGAAAACAACAGCTY
44912	T	a	A	AGCAAAGCTGTTGTTTTCCTGATAAAAGGTCAGCCCCAGGGGGCTCTTT
44912	T	c	A	AGCAAAGCTGTTGTTTTCCTGAGAAAAGGTCAGCCCCAGGGGGCTCTTT
44912	IS	[ac]		GGGGTAAAGGTGGTTAGAAATGAAGGCCAAAGGTAAAGAGCCCCCTGGGGCTGACCTTTT[ac]TCAGGAAAACAACAG CTTTGCTAGAAGCACACCCTATAGAGTTCAACTTGCATCTCACTG
44913	I		S	GGGAGTCAGGGGAATGTCCTGGGTGTGT
44913	P	c	S	ATGACGTGGCAGACGGAGACAAGGCGTGGY
44913	P	t	S	CGCGCCGAGGAGAGACAAGGCGTGGY
44913	T	c	S	TCCCCCACGCCTTGTCTCCCACACCCAGGACATTCCCCTGACTCCCAT
44913	T	t	S	TCCCCCACGCCTTGTCTCTCACACCCAGGACATTCCCCTGACTCCCAT
44913	IS	[ct]		TTTGAAAGGCAGGCAAAGAAAGCACCTGACAAAACCTTTTGATCCCCCACGCCTTGTCTC[ct]CACACCCAGGACATTC CCCTGACTCCCATCTTCACGGACACCGTGATATTCCGGATTGCT
44914	I		A	CCCCACTACCTACTAGCTATGAGACACCAGCAAGTTACT
44914	P	c	A	CGCGCCGAGGCTAAACTCTCTGGGTCTCAY
44914	P	g	A	ATGACGTGGCAGACGTAAACTCTCTGGGTCTCAY

FIGURE 129D

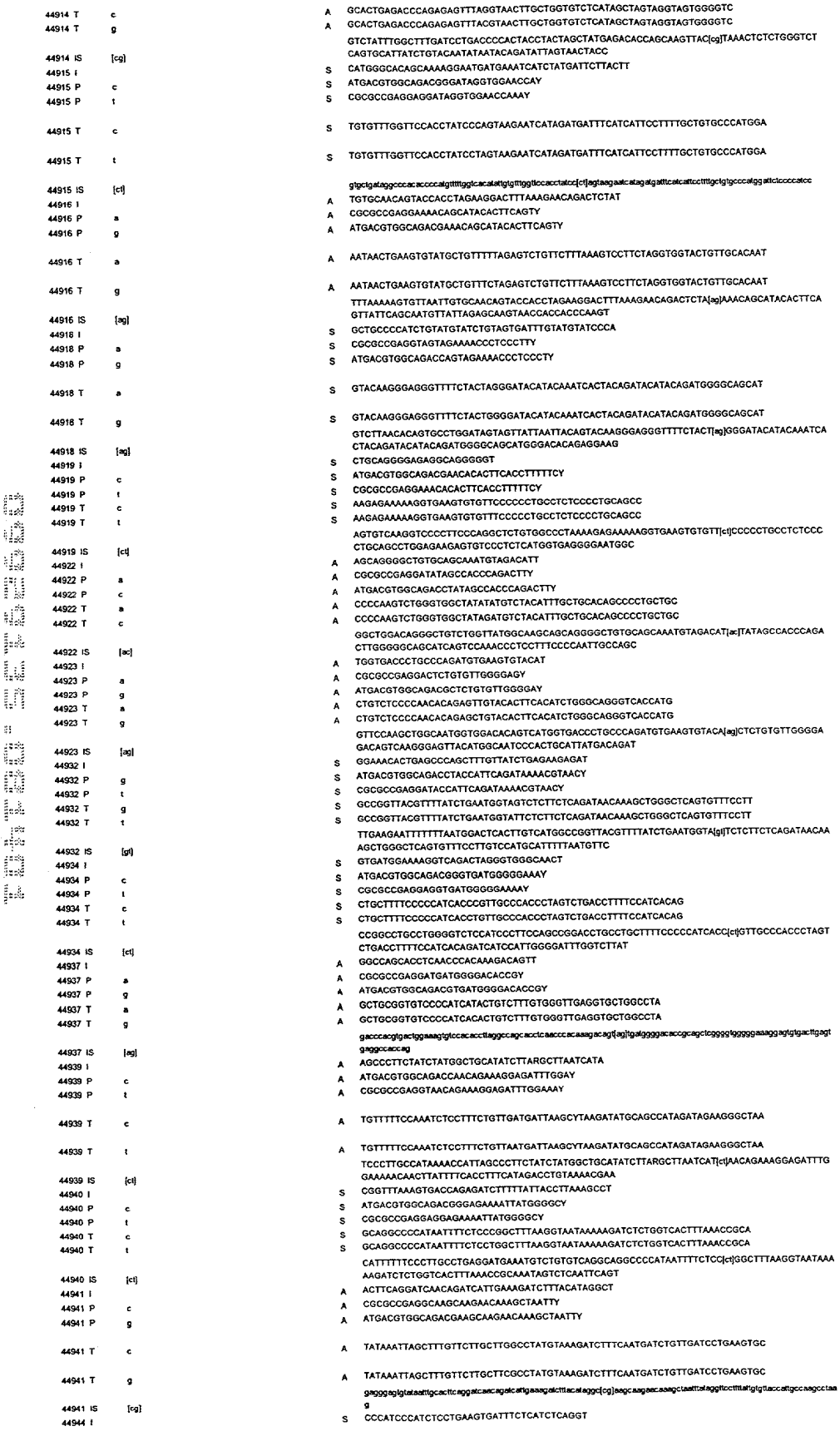

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S CATGGGCACAGCAAAAGGAATGATGAAATCATCTATGATTCTTACTT
S ATGACGTGGCAGACGGGATAGGTGGAACCAY
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S ATGACGTGGCAGACCAGTAGAAAACCCTCCCTY
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S CGCGCCGAGGAAACACACTTCACCTTTTTCY
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A ATGACGTGGCAGACCTATAGCCACCCAGACTTY
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A ATGACGTGGCAGACCAACAGAAAGGAGATTTGGAY
A CGCGCCGAGGTAACAGAAAGGAGATTTGGAAAY
A TGTTTTTCCAAATCTCCTTTCTGTTGATGATTAAGCYTAAGATATGCAGCCATAGATAGAAGGGCTAA
A TGTTTTTCCAAATCTCCTTTCTGTTAATGATTAAGCYTAAGATATGCAGCCATAGATAGAAGGGCTAA
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g
S CCCATCCCATCTCCTGAAGTGATTTCTCATCTCAGGT

FIGURE 129D

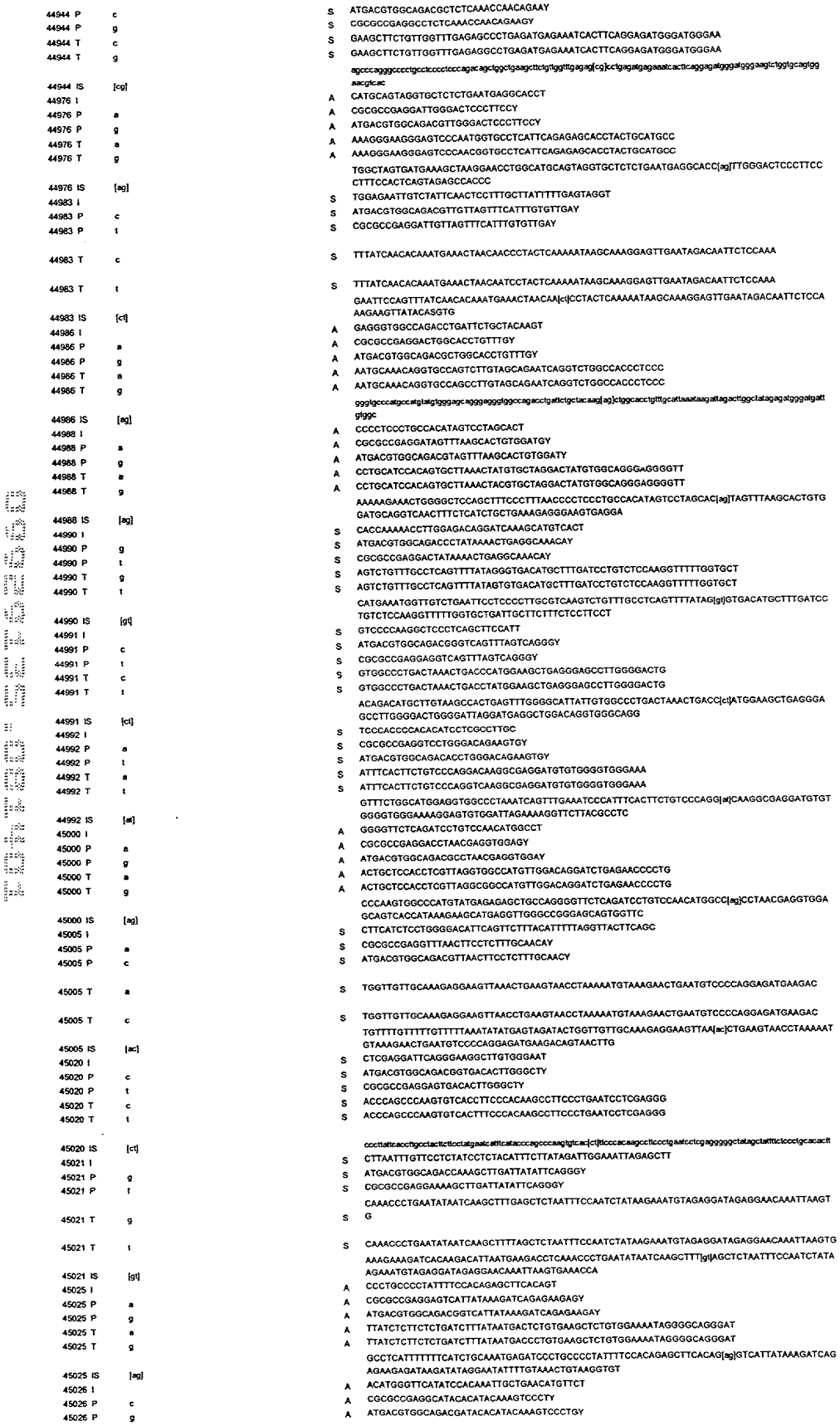

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44944 P g
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44944 T c
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44944 T g
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44976 P g
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44976 T a
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44976 T g
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44976 IS [ag]
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44983 P t
S CGCGCCGAGGATTGTTAGTTTCATTTGTGTTGAY
44983 T c
S TTTATCAACACAAATGAAACTAACAACCCTACTCAAAAATAAGCAAAGGAGTTGAATAGACAATTCTCCAAA
44983 T t
S TTTATCAACACAAATGAAACTAACAATCCTACTCAAAAATAAGCAAAGGAGTTGAATAGACAATTCTCCAAA
GAATTCCAGTTTATCAACACAAATGAAACTAACAA[ct]CCTACTCAAAAATAAGCAAAGGAGTTGAATAGACAATTCTCCA
AAGAAGTTATACASGTG
44983 IS [ct]
44986 I
A GAGGGTGGCCAGACCTGATTCTGCTACAAGT
44986 P a
A CGCGCCGAGGACTGGCACCTGTTTGY
44986 P g
A ATGACGTGGCAGACGCTGGCACCTGTTTGY
44986 T a
A AATGCAAACAGGTGCCAGCTCTTGTAGCAGAATCAGGTCTGGCCACCCTCCC
44986 T g
A AATGCAAACAGGTGCCAGCCTTGTAGCAGAATCAGGTCTGGCCACCCTCCC
gggtgcccatgccatgtatgtgggagcagggagggtggccagacctgatctgctacaag[ag]ctggcacctgtttgcattaaataagattagacttggctatagagatgggatgatt
gtggc
44986 IS [ag]
44988 I
A CCCCTCCCTGCCACATAGTCCTAGCACT
44988 P a
A CGCGCCGAGGATAGTTTAAGCACTGTGGATGY
44988 P g
A ATGACGTGGCAGACGTAGTTTAAGCACTGTGGATY
44988 T a
A CCTGCATCCACAGTGCTTAAACTATGTGCTAGGACTATGTGGCAGGGAGGGGTT
44988 T g
A CCTGCATCCACAGTGCTTAAACTACGTGCTAGGACTATGTGGCAGGGAGGGGTT
AAAAAGAAACTGGGGCTCCAGCTTTCCCTTTAACCCCTCCCTGCCACATAGTCCTAGCAC[ag]TAGTTTAAGCACTGTG
GATGCAGGTCAACTTTCTCATCTGCTGAAAGAGGGAAGTGAGGA
44988 IS [ag]
44990 I
S CACCAAAAACCTTGGAGACAGGATCAAAGCATGTCACT
44990 P g
S ATGACGTGGCAGACCCTATAAAACTGAGGCAAACAY
44990 P t
S CGCGCCGAGGACTATAAAACTGAGGCAAACAY
44990 T g
S AGTCTGTTTGCCTCAGTTTTATAGGGTGACATGCTTTGATCCTGTCTCCAAGGTTTTTGGTGCT
44990 T t
S AGTCTGTTTGCCTCAGTTTTATAGTGTGACATGCTTTGATCCTGTCTCCAAGGTTTTTGGTGCT
CATGAAATGGTTGTCTGAATTCCTCCCCTTGCGTCAAGTCTGTTTGCCTCAGTTTTATAG[gt]GTGACATGCTTTGATCC
TGTCTCCAAGGTTTTTGGTGCTGATTGCTTCTTTCTCCTTCCT
44990 IS [gt]
44991 I
S GTCCCCAAGGCTCCCTCAGCTTCCATT
44991 P c
S ATGACGTGGCAGACGGGTCAGTTTAGTCAGGGY
44991 P t
S CGCGCCGAGGAGGTCAGTTTAGTCAGGGY
44991 T c
S GTGGCCCTGACTAAACTGACCCATGGAAGCTGAGGGAGCCTTGGGGACTG
44991 T t
S GTGGCCCTGACTAAACTGACCTATGGAAGCTGAGGGAGCCTTGGGGACTG
ACAGACATGCTTGTAAGCCACTGAGTTTGGGGCATTATTGTGGCCCTGACTAAACTGACC[ct]ATGGAAGCTGAGGGA
GCCTTGGGGACTGGGGATTAGGATGAGGCTGGACAGGTGGGCAGG
44991 IS [ct]
44992 I
S TCCCACCCCACACATCCTCGCCTTGC
44992 P a
S CGCGCCGAGGTCCTGGGACAGAAGTGY
44992 P t
S ATGACGTGGCAGACACCTGGGACAGAAGTGY
44992 T a
S ATTTCACTTCTGTCCCAGGACAAGGCGAGGATGTGTGGGGTGGGAAA
44992 T t
S ATTTCACTTCTGTCCCAGGTCAAGGCGAGGATGTGTGGGGTGGGAAA
GTTTCTGGCATGGAGGTGGCCCTAAATCAGTTTGAAATCCCATTTCACTTCTGTCCCAGG[at]CAAGGCGAGGATGTGT
GGGGTGGGAAAAGGAGTGTGGATTAGAAAAGGTTCTTACGCCTC
44992 IS [at]
45000 I
A GGGGTTCTCAGATCCTGTCCAACATGGCCT
45000 P a
A CGCGCCGAGGACCTAACGAGGTGGAGY
45000 P g
A ATGACGTGGCAGACGCCTAACGAGGTGGAY
45000 T a
A ACTGCTCCACCTCGTTAGGTGGCCATGTTGGACAGGATCTGAGAACCCCTG
45000 T g
A ACTGCTCCACCTCGTTAGGCGGCCATGTTGGACAGGATCTGAGAACCCCTG
CCCAAGTGGCCCATGTATGAGAGAGCTGCCAGGGGTTCTCAGATCCTGTCCAACATGGCC[ag]CCTAACGAGGTGGA
GCAGTCACCATAAAGAAGCATGAGGTTGGGCCGGGAGCAGTGGTTC
45000 IS [ag]
45005 I
S CTTCATCTCCTGGGGACATTCAGTTCTTTACATTTTTAGGTTACTTCAGC
45005 P a
S CGCGCCGAGGTTTAACTTCCTCTTTGCAACAY
45005 P c
S ATGACGTGGCAGACGTTAACTTCCTCTTTGCAACY
45005 T a
S TGGTTGTTGCAAAGAGGAAGTTAAACTGAAGTAACCTAAAAATGTAAAGAACTGAATGTCCCCAGGAGATGAAGAC
45005 T c
S TGGTTGTTGCAAAGAGGAAGTTAACCTGAAGTAACCTAAAAATGTAAAGAACTGAATGTCCCCAGGAGATGAAGAC
TGTTTTGTTTTTGTTTTTAAATATATGAGTAGATACTGGTTGTTGCAAAGAGGAAGTTAA[ac]CTGAAGTAACCTAAAAAT
GTAAAGAACTGAATGTCCCCAGGAGATGAAGACAGTAACTTG
45005 IS [ac]
45020 I
S CTCGAGGATTCAGGGAAGGCTTGTGGGAAT
45020 P c
S ATGACGTGGCAGACGGTGACACTTGGGCTY
45020 P t
S CGCGCCGAGGAGTGACACTTGGGCTY
45020 T c
S ACCCAGCCCAAGTGTCACCTTCCCACAAGCCTTCCCTGAATCCTCGAGGG
45020 T t
S ACCCAGCCCAAGTGTCACTTTCCCACAAGCCTTCCCTGAATCCTCGAGGG
ccctaatcacctgcctactctcctatgaatcatttcatacccagcccaagtgtcac[ct]tcccacaagccttcccctgaatcctcgaggggctatagctatttctcccctgcacacctt
45020 IS [ct]
45021 I
S CTTAATTTGTTCCTCTATCCTCTACATTTCTTATAGATTGGAAATTAGAGCTT
45021 P g
S ATGACGTGGCAGACCAAAGCTTGATTATATTCAGGGY
45021 P t
S CGCGCCGAGGAAAAGCTTGATTATATTCAGGGY
CAAACCCTGAATATAATCAAGCTTTGAGCTCTAATTTCCAATCTATAAGAAATGTAGAGGATAGAGGAACAAATTAAGT
45021 T g
S G
45021 T t
S CAAACCCTGAATATAATCAAGCTTTTAGCTCTAATTTCCAATCTATAAGAAATGTAGAGGATAGAGGAACAAATTAAGTG
AAAGAAAGATCACAAGACATTAATGAAGACCTCAAACCCTGAATATAATCAAGCTTT[gt]AGCTCTAATTTCCAATCTATA
AGAAATGTAGAGGATAGAGGAACAAATTAAGTGAAACCA
45021 IS [gt]
45025 I
A CCCTGCCCCTATTTTCCACAGAGCTTCACAGT
45025 P a
A CGCGCCGAGGAGTCATTATAAAGATCAGAGAAGAGY
45025 P g
A ATGACGTGGCAGACGGTCATTATAAAGATCAGAGAAGAY
45025 T a
A TTATCTCTTCTCTGATCTTTATAATGACTCTGTGAAGCTCTGTGGAAAATAGGGGCAGGGAT
45025 T g
A TTATCTCTTCTCTGATCTTTATAATGACCCTGTGAAGCTCTGTGGAAAATAGGGGCAGGGAT
GCCTCATTTTTTTTCATCTGCAAATGAGATCCCTGCCCCTATTTTCCACAGAGCTTCACAG[ag]GTCATTATAAAGATCAG
AGAAGAGATAAGATATAGGAATATTTTGTAAACTGTAAGGTGT
45025 IS [ag]
45026 I
A ACATGGGTTCATATCCACAAATTGCTGAACATGTTCT
45026 P c
A CGCGCCGAGGCATACACATACAAAGTCCCTY
45026 P g
A ATGACGTGGCAGACGATACACATACAAAGTCCCTGY

FIGURE 129D

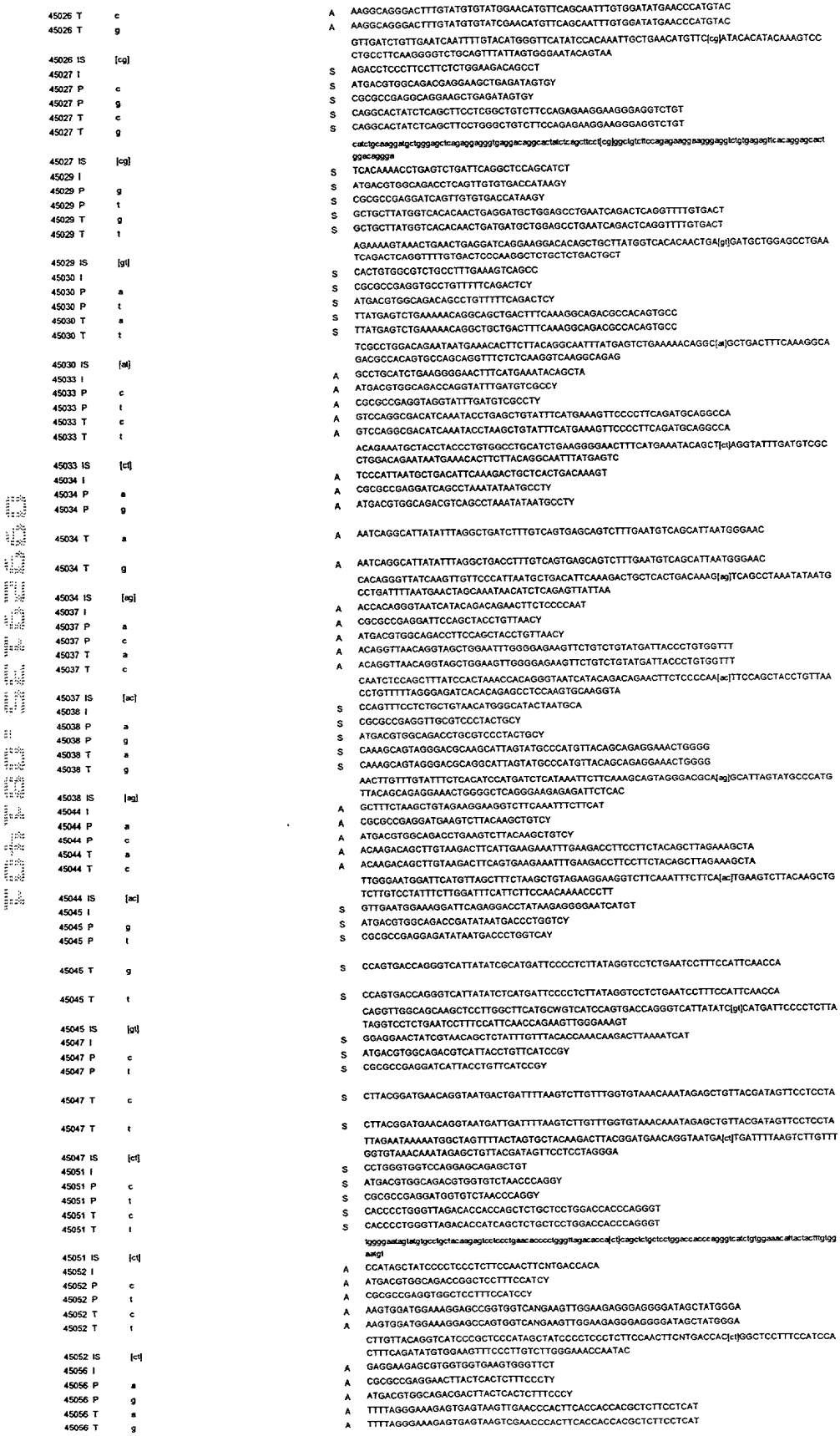

45026 T c
45026 T g
45026 IS [cg]
45027 I
45027 P c
45027 P g
45027 T c
45027 T g
45027 IS [cg]
45029 I
45029 P g
45029 P t
45029 T g
45029 T t
45029 IS [gt]
45030 I
45030 P a
45030 P t
45030 T a
45030 T t
45030 IS [at]
45033 I
45033 P c
45033 P t
45033 T c
45033 T t
45033 IS [ct]
45034 I
45034 P a
45034 P g
45034 T a
45034 T g
45034 IS [ag]
45037 I
45037 P a
45037 P c
45037 T a
45037 T c
45037 IS [ac]
45038 I
45038 P a
45038 P g
45038 T a
45038 T g
45038 IS [ag]
45044 I
45044 P a
45044 P c
45044 T a
45044 T c
45044 IS [ac]
45045 I
45045 P g
45045 P t
45045 T g
45045 T t
45045 IS [gt]
45047 I
45047 P c
45047 P t
45047 T c
45047 T t
45047 IS [ct]
45051 I
45051 P c
45051 P t
45051 T c
45051 T t
45051 IS [ct]
45052 I
45052 P c
45052 P t
45052 T c
45052 T t
45052 IS [ct]
45056 I
45056 P a
45056 P g
45056 T a
45056 T g
A AAGGCAGGGACTTTGTATGTGTATGGAACATGTTCAGCAATTTGTGGATATGAACCCATGTAC
A AAGGCAGGGACTTTGTATGTGTATCGAACATGTTCAGCAATTTGTGGATATGAACCCATGTAC
GTTGATCTGTTGAATCAATTTTGTACATGGGTTCATATCCACAAATTGCTGAACATGTTC[cg]ATACACATACAAAGTCC
CTGCCTTCAAGGGGTCTGCAGTTTATTAGTGGGAATACAGTAA
S AGACCTCCCTTCCTTCTCTGGAAGACAGCCT
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S CGCGCCGAGGCAGGAAGCTGAGATAGTGY
S CAGGCACTATCTCAGCTTCCTCGGCTGTCTTCCAGAGAAGGAAGGGAGGTCTGT
S CAGGCACTATCTCAGCTTCCTGGGCTGTCTTCCAGAGAAGGAAGGGAGGTCTGT
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ggacaggga
S TCACAAAACCTGAGTCTGATTCAGGCTCCAGCATCT
S ATGACGTGGCAGACCTCAGTTGTGTGACCATAAGY
S CGCGCCGAGGATCAGTTGTGTGACCATAAGY
S GCTGCTTATGGTCACACAACTGAGGATGCTGGAGCCTGAATCAGACTCAGGTTTTGTGACT
S GCTGCTTATGGTCACACAACTGATGATGCTGGAGCCTGAATCAGACTCAGGTTTTGTGACT
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S CACTGTGGCGTCTGCCTTTGAAAGTCAGCC
S CGCGCCGAGGTGCCTGTTTTTCAGACTCY
S ATGACGTGGCAGACAGCCTGTTTTTCAGACTCY
S TTATGAGTCTGAAAAACAGGCAGCTGACTTTCAAAGGCAGACGCCACAGTGCC
S TTATGAGTCTGAAAAACAGGCTGCTGACTTTCAAAGGCAGACGCCACAGTGCC
TCGCCTGGACAGAATAATGAAACACTTCTTACAGGCAATTTATGAGTCTGAAAAACAGGC[at]GCTGACTTTCAAAGGCA
GACGCCACAGTGCCAGCAGGTTTCTCTCAAGGTCAAGGCAGAG
A GCCTGCATCTGAAGGGGAACTTTCATGAAATACAGCTA
A ATGACGTGGCAGACCAGGTATTTGATGTCGCCY
A CGCGCCGAGGTAGGTATTTGATGTCGCCTY
A GTCCAGGCGACATCAAATACCTGAGCTGTATTTCATGAAAGTTCCCCTTCAGATGCAGGCCA
A GTCCAGGCGACATCAAATACCTAAGCTGTATTTCATGAAAGTTCCCCTTCAGATGCAGGCCA
ACAGAAATGCTACCTACCCTGTGGCCTGCATCTGAAGGGGAACTTTCATGAAATACAGCT[ct]AGGTATTTGATGTCGC
CTGGACAGAATAATGAAACACTTCTTACAGGCAATTTATGAGTC
A TCCCATTAATGCTGACATTCAAAGACTGCTCACTGACAAAGT
A CGCGCCGAGGATCAGCCTAAATATAATGCCTY
A ATGACGTGGCAGACGTCAGCCTAAATATAATGCCTY
A AATCAGGCATTATATTTAGGCTGATCTTTGTCAGTGAGCAGTCTTTGAATGTCAGCATTAATGGGAAC
A AATCAGGCATTATATTTAGGCTGACCTTTGTCAGTGAGCAGTCTTTGAATGTCAGCATTAATGGGAAC
CACAGGGTTATCAAGTTGTTCCCATTAATGCTGACATTCAAAGACTGCTCACTGACAAAG[ag]TCAGCCTAAATATAATG
CCTGATTTTAATGAACTAGCAAATAACATCTCAGAGTTATTAA
A ACCACAGGGTAATCATACAGACAGAACTTCTCCCCAAT
A CGCGCCGAGGATTCCAGCTACCTGTTAACY
A ATGACGTGGCAGACCTTCCAGCTACCTGTTAACY
A ACAGGTTAACAGGTAGCTGGAATTTGGGGAGAAGTTCTGTCTGTATGATTACCCTGTGGTTT
A ACAGGTTAACAGGTAGCTGGAAGTTGGGGAGAAGTTCTGTCTGTATGATTACCCTGTGGTTT
CAATCTCCAGCTTTATCCACTAAACCACAGGGTAATCATACAGACAGAACTTCTCCCCAA[ac]TTCCAGCTACCTGTTAA
CCTGTTTTTAGGGAGATCACACAGAGCCTCCAAGTGCAAGGTA
S CCAGTTTCCTCTGCTGTAACATGGGCATACTAATGCA
S CGCGCCGAGGTTGCGTCCCTACTGCY
S ATGACGTGGCAGACCTGCGTCCCTACTGCY
S CAAAGCAGTAGGGACGCAAGCATTAGTATGCCCATGTTACAGCAGAGGAAACTGGGG
S CAAAGCAGTAGGGACGCAGGCATTAGTATGCCCATGTTACAGCAGAGGAAACTGGGG
AACTTGTTTGTATTTCTCACATCCATGATCTCATAAATTCTTCAAAGCAGTAGGGACGCA[ag]GCATTAGTATGCCCATG
TTACAGCAGAGGAAACTGGGGCTCAGGGAAGAGAGATTCTCAC
A GCTTTCTAAGCTGTAGAAGGAAGGTCTTCAAATTTCTTCAT
A CGCGCCGAGGATGAAGTCTTACAAGCTGTCY
A ATGACGTGGCAGACCTGAAGTCTTACAAGCTGTCY
A ACAAGACAGCTTGTAAGACTTCATTGAAGAAATTTGAAGACCTTCCTTCTACAGCTTAGAAAGCTA
A ACAAGACAGCTTGTAAGACTTCAGTGAAGAAATTTGAAGACCTTCCTTCTACAGCTTAGAAAGCTA
TTGGGAATGGATTCATGTTAGCTTTCTAAGCTGTAGAAGGAAGGTCTTCAAATTTCTTCA[ac]TGAAGTCTTACAAGCTG
TCTTGTCCTATTTCTTGGATTTCATTCTTCCAACAAAACCCTT
S GTTGAATGGAAAGGATTCAGAGGACCTATAAGAGGGGAATCATGT
S ATGACGTGGCAGACCGATATAATGACCCTGGTCY
S CGCGCCGAGGAGATATAATGACCCTGGTCAY
S CCAGTGACCAGGGTCATTATATCGCATGATTCCCCTCTTATAGGTCCTCTGAATCCTTTCCATTCAACCA
S CCAGTGACCAGGGTCATTATATCTCATGATTCCCCTCTTATAGGTCCTCTGAATCCTTTCCATTCAACCA
CAGGTTGGCAGCAAGCTCCTTGGCTTCATGCWGTCATCCAGTGACCAGGGTCATTATATC[gt]CATGATTCCCCTCTTA
TAGGTCCTCTGAATCCTTTCCATTCAACCAGAAGTTGGGAAAGT
S GGAGGAACTATCGTAACAGCTCTATTTGTTTACACCAAACAAGACTTAAAATCAT
S ATGACGTGGCAGACGTCATTACCTGTTCATCCGY
S CGCGCCGAGGATCATTACCTGTTCATCCGY
S CTTACGGATGAACAGGTAATGACTGATTTTAAGTCTTGTTTGGTGTAAACAAATAGAGCTGTTACGATAGTTCCTCCTA
S CTTACGGATGAACAGGTAATGATTGATTTTAAGTCTTGTTTGGTGTAAACAAATAGAGCTGTTACGATAGTTCCTCCTA
TTAGAATAAAAATGGCTAGTTTTACTAGTGCTACAAGACTTACGGATGAACAGGTAATGA[ct]TGATTTTAAGTCTTGTTT
GGTGTAAACAAATAGAGCTGTTACGATAGTTCCTCCTAGGGA
S CCTGGGTGGTCCAGGAGCAGAGCTGT
S ATGACGTGGCAGACGTGGTGTCTAACCCAGGY
S CGCGCCGAGGATGGTGTCTAACCCAGGY
S CACCCCTGGGTTAGACACCACCAGCTCTGCTCCTGGACCACCCAGGGT
S CACCCCTGGGTTAGACACCATCAGCTCTGCTCCTGGACCACCCAGGGT
tggggaatagtatgtgcctgctacagagtcctccctgaaccccctgggttagacaccatctgagctctgctcctggaccacccagggtcatctgtggaaacattactacttgtgg
aatgt
A CCATAGCTATCCCCTCCCTCTTCCAACTTCNTGACCACA
A ATGACGTGGCAGACCGGCTCCTTTCCATCY
A CGCGCCGAGGTGGCTCCTTTCCATCCY
A AAGTGGATGGAAAGGAGCCGGTGGTCANGAAGTTGGAAGAGGGAGGGGATAGCTATGGGA
A AAGTGGATGGAAAGGAGCCAGTGGTCANGAAGTTGGAAGAGGGAGGGGATAGCTATGGGA
CTTGTTACAGGTCATCCCGCTCCCATAGCTATCCCCTCCCTCTTCCAACTTCNTGACCAC[ct]GGCTCCTTTCCATCCA
CTTTCAGATATGTGGAAGTTTCCCTTGTCTTGGGAAACCAATAC
A GAGGAAGAGCGTGGTGGTGAAGTGGGTTCT
A CGCGCCGAGGAACTTACTCACTCTTTCCCTY
A ATGACGTGGCAGACGACTTACTCACTCTTTCCCY
A TTTTAGGGAAAGAGTGAGTAAGTTGAACCCACTTCACCACCACGCTCTTCCTCAT
A TTTTAGGGAAAGAGTGAGTAAGTCGAACCCACTTCACCACCACGCTCTTCCTCAT

FIGURE 129D

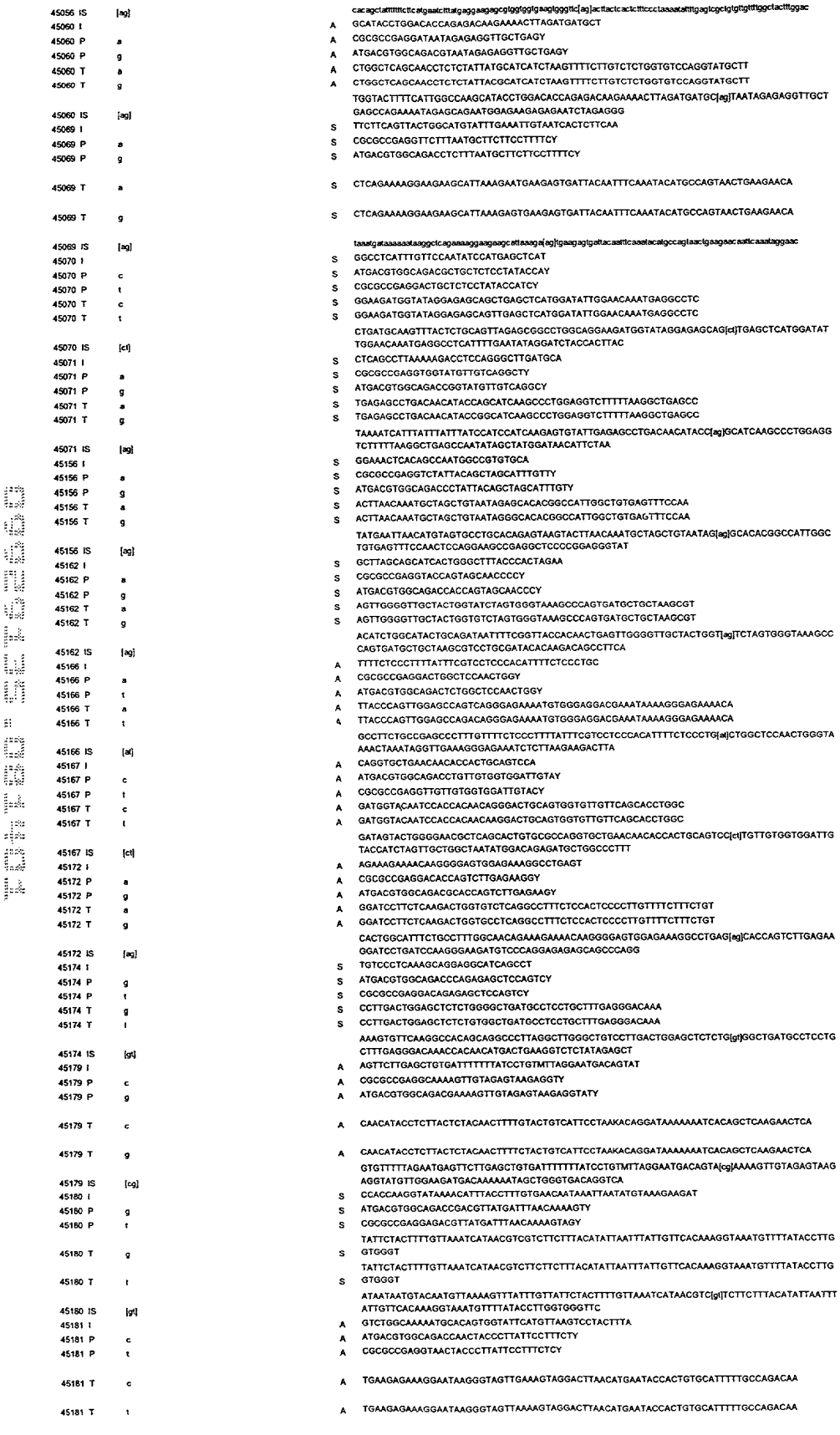

45056 IS [ag] cacagctatttttctcatgaatcttatgaggaagagcgtggtggtgaagtgggttc[ag]actactcactcttttccctaaaatatttgagtcgctgttgttttggctactttggac
45060 I A GCATACCTGGACACCAGAGACAAGAAAACTTAGATGATGCT
45060 P a A CGCGCCGAGGATAATAGAGAGGTTGCTGAGY
45060 P g A ATGACGTGGCAGACGTAATAGAGAGGTTGCTGAGY
45060 T a A CTGGCTCAGCAACCTCTCTATTATGCATCATCTAAGTTTTCTTGTCTCTGGTGTCCAGGTATGCTT
45060 T g A CTGGCTCAGCAACCTCTCTATTACGCATCATCTAAGTTTTCTTGTCTCTGGTGTCCAGGTATGCTT
45060 IS [ag] TGGTACTTTTCATTGGCCAAGCATACCTGGACACCAGAGACAAGAAAACTTAGATGATGC[ag]TAATAGAGAGGTTGCT GAGCCAGAAAATAGAGCAGAATGGAGAAGAGAGAATCTAGAGGG
45069 I S TTCTTCAGTTACTGGCATGTATTTGAAATTGTAATCACTCTTCAA
45069 P a S CGCGCCGAGGTTCTTTAATGCTTCTTCCTTTTCY
45069 P g S ATGACGTGGCAGACCTCTTTAATGCTTCTTCCTTTTCY
45069 T a S CTCAGAAAAGGAAGAAGCATTAAAGAATGAAGAGTGATTACAATTTCAAATACATGCCAGTAACTGAAGAACA
45069 T g S CTCAGAAAAGGAAGAAGCATTAAAGAGTGAAGAGTGATTACAATTTCAAATACATGCCAGTAACTGAAGAACA
45069 IS [ag] taaatgataaaaaaataaggctcagaaaaggaagaagcattaaaga[ag]tgaagagtgattacaatttcaaatacatgccagtaactgaagaaccaatttcaaataggaac
45070 I S GGCCTCATTTGTTCCAATATCCATGAGCTCAT
45070 P c S ATGACGTGGCAGACGCTGCTCTCCTATACCAY
45070 P t S CGCGCCGAGGACTGCTCTCCTATACCATCY
45070 T c S GGAAGATGGTATAGGAGAGCAGCTGAGCTCATGGATATTGGAACAAATGAGGCCTC
45070 T t S GGAAGATGGTATAGGAGAGCAGTTGAGCTCATGGATATTGGAACAAATGAGGCCTC
45070 IS [ct] CTGATGCAAGTTTACTCTGCAGTTAGAGCGGCCTGGCAGGAAGATGGTATAGGAGAGCAG[ct]TGAGCTCATGGATAT TGGAACAAATGAGGCCTCATTTTGAATATAGGATCTACCACTTAC
45071 I S CTCAGCCTTAAAAAGACCTCCAGGGCTTGATGCA
45071 P a S CGCGCCGAGGTGGTATGTTGTCAGGCTY
45071 P g S ATGACGTGGCAGACCGGTATGTTGTCAGGCY
45071 T a S TGAGAGCCTGACAACATACCAGCATCAAGCCCTGGAGGTCTTTTTAAGGCTGAGCC
45071 T g S TGAGAGCCTGACAACATACCGGCATCAAGCCCTGGAGGTCTTTTTAAGGCTGAGCC
45071 IS [ag] TAAAATCATTTATTTATTTATCCATCCATCAAGAGTGTATTGAGAGCCTGACAACATACC[ag]GCATCAAGCCCTGGAGG TCTTTTTAAGGCTGAGCCAATATAGCTATGGATAACATTCTAA
45156 I S GGAAACTCACAGCCAATGGCCGTGTGCA
45156 P a S CGCGCCGAGGTCTATTACAGCTAGCATTTGTTY
45156 P g S ATGACGTGGCAGACCCTATTACAGCTAGCATTTGTY
45156 T a S ACTTAACAAATGCTAGCTGTAATAGAGCACACGGCCATTGGCTGTGAGTTTCCAA
45156 T g S ACTTAACAAATGCTAGCTGTAATAGGGCACACGGCCATTGGCTGTGAGTTTCCAA
45156 IS [ag] TATGAATTAACATGTAGTGCCTGCACAGAGTAAGTACTTAACAAATGCTAGCTGTAATAG[ag]GCACACGGCCATTGGC TGTGAGTTTCCAACTCCAGGAAGCCGAGGCTCCCCGGAGGGTAT
45162 I S GCTTAGCAGCATCACTGGGCTTTACCCACTAGAA
45162 P a S CGCGCCGAGGTACCAGTAGCAACCCCY
45162 P g S ATGACGTGGCAGACCACCAGTAGCAACCCY
45162 T a S AGTTGGGGTTGCTACTGGTATCTAGTGGGTAAAGCCCAGTGATGCTGCTAAGCGT
45162 T g S AGTTGGGGTTGCTACTGGTGTCTAGTGGGTAAAGCCCAGTGATGCTGCTAAGCGT
45162 IS [ag] ACATCTGGCATACTGCAGATAATTTTCGGTTACCACAACTGAGTTGGGGTTGCTACTGGT[ag]TCTAGTGGGTAAAGCC CAGTGATGCTGCTAAGCGTCCTGCGATACACAAGACAGCCTTCA
45166 I A TTTTCTCCCTTTTATTTCGTCCTCCCACATTTTCTCCCTGC
45166 P a A CGCGCCGAGGACTGGCTCCAACTGGY
45166 P t A ATGACGTGGCAGACTCTGGCTCCAACTGGY
45166 T a A TTACCCAGTTGGAGCCAGTCAGGGAGAAAATGTGGGAGGACGAAATAAAAGGGAGAAAACA
45166 T t A TTACCCAGTTGGAGCCAGACAGGGAGAAAATGTGGGAGGACGAAATAAAAGGGAGAAAACA
45166 IS [at] GCCTTCTGCCGAGCCCTTTGTTTTCTCCCTTTTATTTCGTCCTCCCACATTTTCTCCCTG[at]CTGGCTCCAACTGGGTA AAACTAAATAGGTTGAAAGGGAGAAATCTCTTAAGAAGACTTA
45167 I A CAGGTGCTGAACAACACCACTGCAGTCCA
45167 P c A ATGACGTGGCAGACCTGTTGTGGTGGATTGTAY
45167 P t A CGCGCCGAGGTTGTTGTGGTGGATTGTACY
45167 T c A GATGGTACAATCCACCACAACAGGGACTGCAGTGGTGTTGTTCAGCACCTGGC
45167 T t A GATGGTACAATCCACCACAACAAGGACTGCAGTGGTGTTGTTCAGCACCTGGC
45167 IS [ct] GATAGTACTGGGGAACGCTCAGCACTGTGCGCCAGGTGCTGAACAACACCACTGCAGTCC[ct]TGTTGTGGTGGATTG TACCATCTAGTTGCTGGCTAATATGGACAGAGATGCTGGCCCTTT
45172 I A AGAAAGAAAACAAGGGGAGTGGAGAAAGGCCTGAGT
45172 P a A CGCGCCGAGGACACCAGTCTTGAGAAGGY
45172 P g A ATGACGTGGCAGACGCACCAGTCTTGAGAAGY
45172 T a A GGATCCTTCTCAAGACTGGTGTCTCAGGCCTTTCTCCACTCCCCTTGTTTTCTTTCTGT
45172 T g A GGATCCTTCTCAAGACTGGTGCCTCAGGCCTTTCTCCACTCCCCTTGTTTTCTTTCTGT
45172 IS [ag] CACTGGCATTTCTGCCTTTGGCAACAGAAAGAAAACAAGGGGAGTGGAGAAAGGCCTGAG[ag]CACCAGTCTTGAGAA GGATCCTGATCCAAGGGAAGATGTCCCAGGAGAGAGCAGCCCAGG
45174 I S TGTCCCTCAAAGCAGGAGGCATCAGCCT
45174 P g S ATGACGTGGCAGACCCAGAGAGCTCCAGTCY
45174 P t S CGCGCCGAGGACAGAGAGCTCCAGTCY
45174 T g S CCTTGACTGGAGCTCTCTGGGGCTGATGCCTCCTGCTTTGAGGGACAAA
45174 T t S CCTTGACTGGAGCTCTCTGTGGCTGATGCCTCCTGCTTTGAGGGACAAA
45174 IS [gt] AAAGTGTTCAAGGCCACAGCAGGCCCTTAGGCTTGGGCTGTCCTTGACTGGAGCTCTCTG[gt]GGCTGATGCCTCCTG CTTTGAGGGACAAACCACAACATGACTGAAGGTCTCTATAGAGCT
45179 I A AGTTCTTGAGCTGTGATTTTTTTTATCCTGTMTTAGGAATGACAGTAT
45179 P c A CGCGCCGAGGCAAAAGTTGTAGAGTAAGAGGTY
45179 P g A ATGACGTGGCAGACGAAAAGTTGTAGAGTAAGAGGTATY
45179 T c A CAACATACCTCTTACTCTACAACTTTTGTACTGTCATTCCTAAKACAGGATAAAAAAATCACAGCTCAAGAACTCA
45179 T g A CAACATACCTCTTACTCTACAACTTTTCTACTGTCATTCCTAAKACAGGATAAAAAAATCACAGCTCAAGAACTCA
45179 IS [cg] GTGTTTTTAGAATGAGTTCTTGAGCTGTGATTTTTTTATCCTGTMTTAGGAATGACAGTA[cg]AAAAGTTGTAGAGTAAG AGGTATGTTGGAAGATGACAAAAAATAGCTGGGTGACAGGTCA
45180 I S CCACCAAGGTATAAAACATTTACCTTTGTGAACAATAAATTAATATGTAAAGAAGAT
45180 P g S ATGACGTGGCAGACCGACGTTATGATTTAACAAAAGTY
45180 P t S CGCGCCGAGGAGACGTTATGATTTAACAAAAGTAGY
45180 T g S TATTCTACTTTTGTTAAATCATAACGTCGTCTTCTTTACATATTAATTTATTGTTCACAAAGGTAAATGTTTTATACCTTG GTGGGT
45180 T t S TATTCTACTTTTGTTAAATCATAACGTCTTCTTCTTTACATATTAATTTATTGTTCACAAAGGTAAATGTTTTATACCTTG GTGGGT
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45181 I A GTCTGGCAAAAATGCACAGTGGTATTCATGTTAAGTCCTACTTTA
45181 P c A ATGACGTGGCAGACCAACTACCCTTATTCCTTTCTY
45181 P t A CGCGCCGAGGTAACTACCCTTATTCCTTTCTCY
45181 T c A TGAAGAGAAAGGAATAAGGGTAGTTGAAAGTAGGACTTAACATGAATACCACTGTGCATTTTTGCCAGACAA
45181 T t A TGAAGAGAAAGGAATAAGGGTAGTTAAAAGTAGGACTTAACATGAATACCACTGTGCATTTTTGCCAGACAA

FIGURE 129D

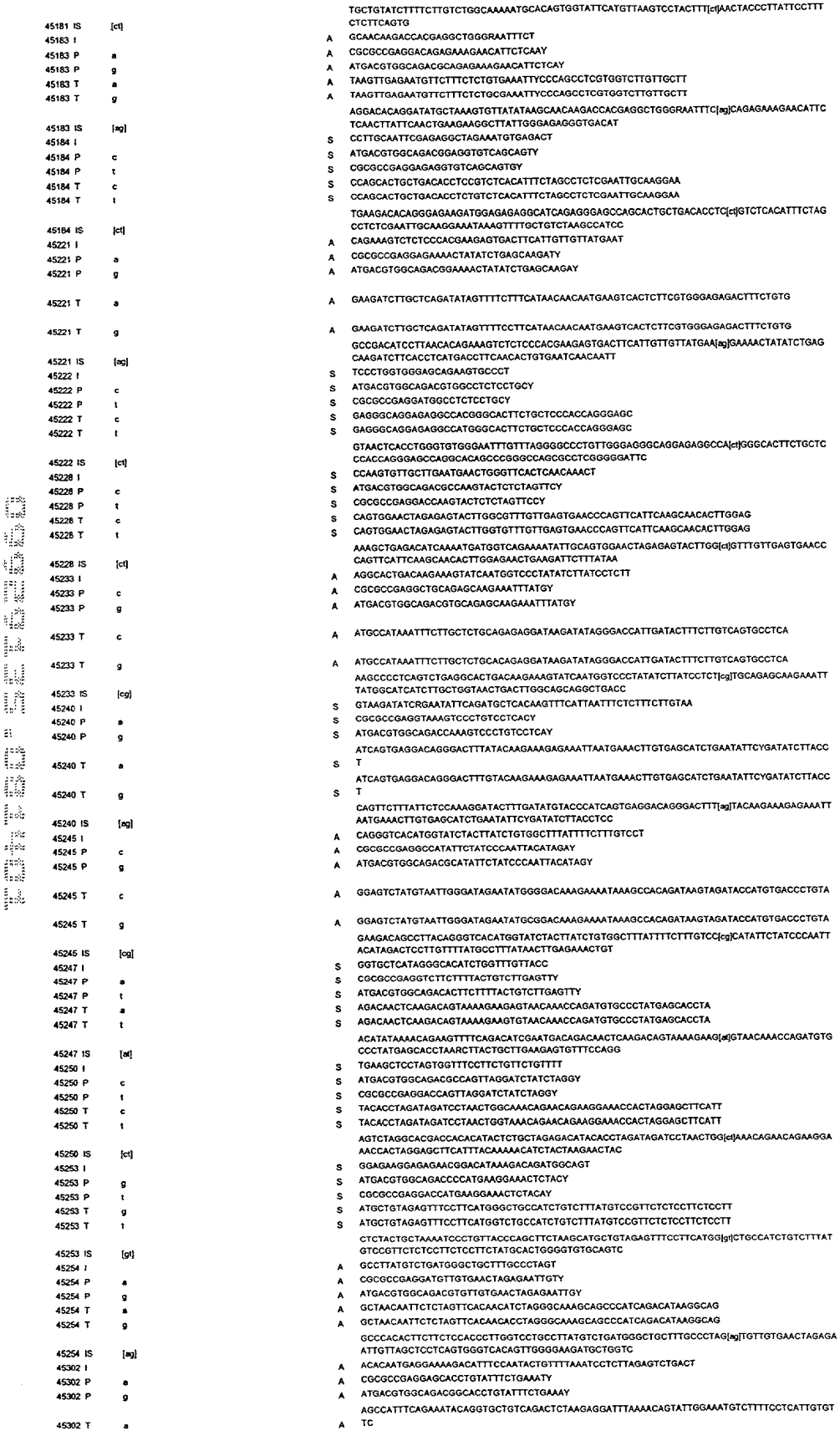
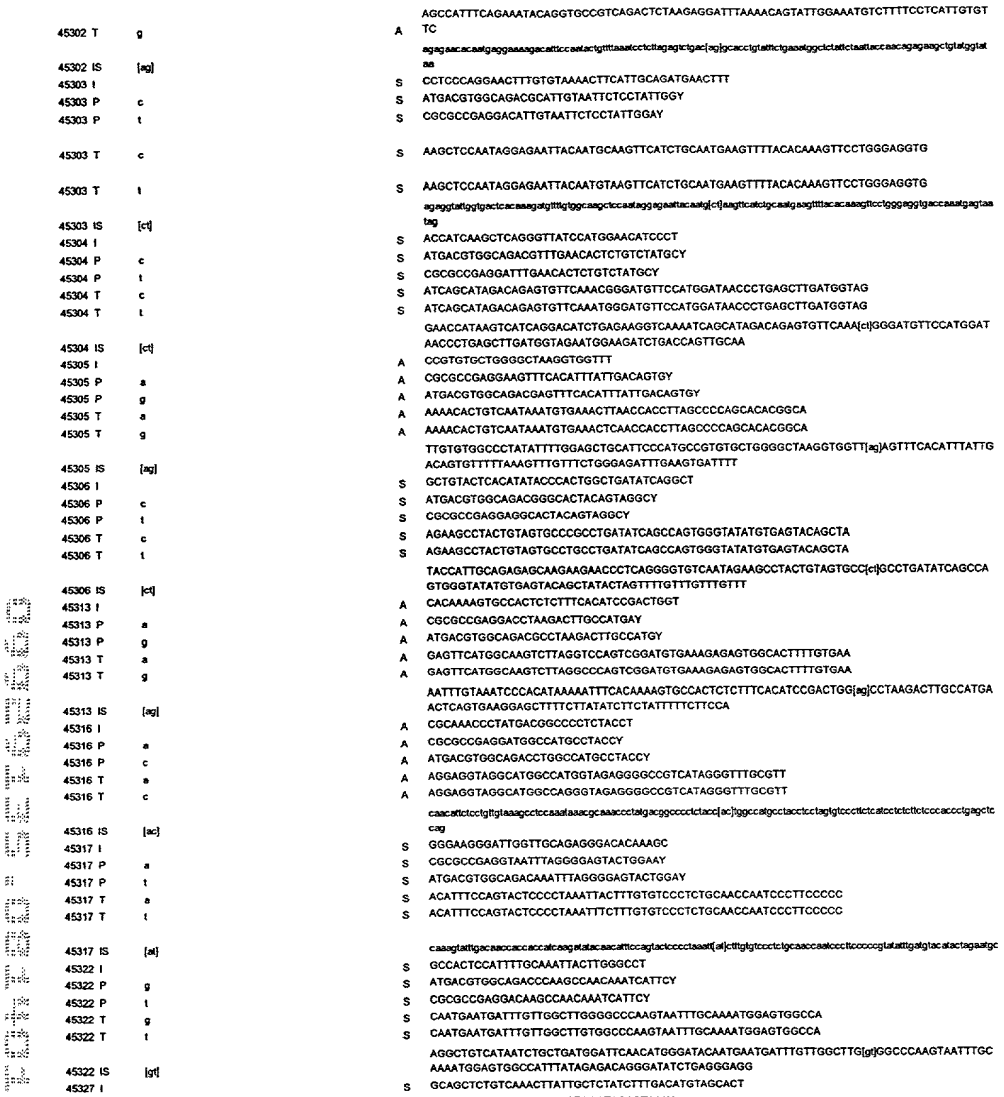

TGCTGTATCTTTTCTTGTCTGGCAAAAATGCACAGTGGTATTCATGTTAAGTCCTACTTT[ct]AACTACCCTTATTCCTTT
45181 IS [ct] CTCTTCAGTG
45183 I A GCAACAAGACCACGAGGCTGGGRAATTTCT
45183 P a A CGCGCCGAGGACAGAGAAAGAACATTCTCAAY
45183 P g A ATGACGTGGCAGACGCAGAGAAAGAACATTCTCAY
45183 T a A TAAGTTGAGAATGTTCTTTCTCTGTGAAATTYCCCAGCCTCGTGGTCTTGTTGCTT
45183 T g A TAAGTTGAGAATGTTCTTTCTCTGCGAAATTYCCCAGCCTCGTGGTCTTGTTGCTT
AGGACACAGGATATGCTAAAGTGTTATATAAGCAACAAGACCACGAGGCTGGGRAATTTC[ag]CAGAGAAAGAACATTC
45183 IS [ag] TCAACTTATTCAACTGAAGAAGGCTTATTGGGAGAGGGTGACAT
45184 I S CCTTGCAATTCGAGAGGCTAGAAATGTGAGACT
45184 P c S ATGACGTGGCAGACGGAGGTGTCAGCAGTY
45184 P t S CGCGCCGAGGAGAGGTGTCAGCAGTGY
45184 T c S CCAGCACTGCTGACACCTCCGTCTCACATTTCTAGCCTCTCGAATTGCAAGGAA
45184 T t S CCAGCACTGCTGACACCTCTGTCTCACATTTCTAGCCTCTCGAATTGCAAGGAA
TGAAGACACAGGGAGAAGATGGAGAGAGGCATCAGAGGGAGCCAGCACTGCTGACACCTC[ct]GTCTCACATTTCTAG
45184 IS [ct] CCTCTCGAATTGCAAGGAAATAAAGTTTTGCTGTCTAAGCCATCC
45221 I A CAGAAAGTCTCTCCCACGAAGAGTGACTTCATTGTTGTTATGAAT
45221 P a A CGCGCCGAGGAGAAAACTATATCTGAGCAAGATY
45221 P g A ATGACGTGGCAGACGGAAAACTATATCTGAGCAAGAY
45221 T a A GAAGATCTTGCTCAGATATAGTTTTCTTTCATAACAACAATGAAGTCACTCTTCGTGGGAGAGACTTTCTGTG
45221 T g A GAAGATCTTGCTCAGATATAGTTTTCCTTCATAACAACAATGAAGTCACTCTTCGTGGGAGAGACTTTCTGTG
GCCGACATCCTTAACACAGAAAGTCTCTCCCACGAAGAGTGACTTCATTGTTGTTATGAA[ag]GAAAACTATATCTGAG
45221 IS [ag] CAAGATCTTCACCTCATGACCTTCAACACTGTGAATCAACAATT
45222 I S TCCCTGGTGGGAGCAGAAGTGCCCT
45222 P c S ATGACGTGGCAGACGTGGCCTCTCCTGCY
45222 P t S CGCGCCGAGGATGGCCTCTCCTGCY
45222 T c S GAGGGCAGGAGAGGCCACGGGCACTTCTGCTCCCACCAGGGAGC
45222 T t S GAGGGCAGGAGAGGCCATGGGCACTTCTGCTCCCACCAGGGAGC
GTAACTCACCTGGGTGTGGGAATTTGTTTAGGGGCCCTGTTGGGAGGGCAGGAGAGGCCA[ct]GGGCACTTCTGCTC
45222 IS [ct] CCACCAGGGAGCCAGGCACAGCCCGGGCCAGCGCCTCGGGGGATTC
45228 I S CCAAGTGTTGCTTGAATGAACTGGGTTCACTCAACAAACT
45228 P c S ATGACGTGGCAGACGCCAAGTACTCTCTAGTTCY
45228 P t S CGCGCCGAGGACCAAGTACTCTCTAGTTCCY
45228 T c S CAGTGGAACTAGAGAGTACTTGGCGTTTGTTGAGTGAACCCAGTTCATTCAAGCAACACTTGGAG
45228 T t S CAGTGGAACTAGAGAGTACTTGGTGTTTGTTGAGTGAACCCAGTTCATTCAAGCAACACTTGGAG
AAAGCTGAGACATCAAAATGATGGTCAGAAAATATTGCAGTGGAACTAGAGAGTACTTGG[ct]GTTTGTTGAGTGAACC
45228 IS [ct] CAGTTCATTCAAGCAACACTTGGAGAACTGAAGATTCTTTATAA
45233 I A AGGCACTGACAAGAAAGTATCAATGGTCCCTATATCTTATCCTCTT
45233 P c A CGCGCCGAGGCTGCAGAGCAAGAAATTTATGY
45233 P g A ATGACGTGGCAGACGTGCAGAGCAAGAAATTTATGY
45233 T c A ATGCCATAAATTTCTTGCTCTGCAGAGAGGATAAGATATAGGGACCATTGATACTTTCTTGTCAGTGCCTCA
45233 T g A ATGCCATAAATTTCTTGCTCTGCACAGAGGATAAGATATAGGGACCATTGATACTTTCTTGTCAGTGCCTCA
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45233 IS [cg] TATGGCATCATCTTGCTGGTAACTGACTTGGCAGCAGGCTGACC
45240 I S GTAAGATATCRGAATATTCAGATGCTCACAAGTTTCATTAATTTCTCTTTCTTGTAA
45240 P a S CGCGCCGAGGTAAAGTCCCTGTCCTCACY
45240 P g S ATGACGTGGCAGACCAAAGTCCCTGTCCTCAY
ATCAGTGAGGACAGGGACTTTATACAAGAAAGAGAAATTAATGAAACTTGTGAGCATCTGAATATTCYGATATCTTACC
45240 T a S T
ATCAGTGAGGACAGGGACTTTGTACAAGAAAGAGAAATTAATGAAACTTGTGAGCATCTGAATATTCYGATATCTTACC
45240 T g S T
CAGTTCTTTATTCTCCAAAGGATACTTTGATATGTACCCATCAGTGAGGACAGGGACTTT[ag]TACAAGAAAGAGAAATT
45240 IS [ag] AATGAAACTTGTGAGCATCTGAATATTCYGATATCTTACCTCC
45245 I A CAGGGTCACATGGTATCTACTTATCTGTGGCTTTATTTTCTTTGTCCT
45245 P c A CGCGCCGAGGCCATATTCTATCCCAATTACATAGAY
45245 P g A ATGACGTGGCAGACGCATATTCTATCCCAATTACATAGY
45245 T c A GGAGTCTATGTAATTGGGATAGAATATGGGGACAAAGAAAATAAAGCCACAGATAAGTAGATACCATGTGACCCTGTA
45245 T g A GGAGTCTATGTAATTGGGATAGAATATGCGGACAAAGAAAATAAAGCCACAGATAAGTAGATACCATGTGACCCTGTA
GAAGACAGCCTTACAGGGTCACATGGTATCTACTTATCTGTGGCTTTATTTTCTTTGTCC[cg]CATATTCTATCCCAATT
45245 IS [cg] ACATAGACTCCTTGTTTTATGCCTTTATAACTTGAGAAACTGT
45247 I S GGTGCTCATAGGGCACATCTGGTTTGTTACC
45247 P a S CGCGCCGAGGTCTTCTTTTACTGTCTTGAGTTY
45247 P t S ATGACGTGGCAGACACTTCTTTTACTGTCTTGAGTTY
45247 T a S AGACAACTCAAGACAGTAAAAGAAGAGTAACAAACCAGATGTGCCCTATGAGCACCTA
45247 T t S AGACAACTCAAGACAGTAAAAGAAGTGTAACAAACCAGATGTGCCCTATGAGCACCTA
ACATATAAAACAGAAGTTTTCAGACATCGAATGACAGACAACTCAAGACAGTAAAAGAAG[at]GTAACAAACCAGATGTG
45247 IS [at] CCCTATGAGCACCTAARCTTACTGCTTGAAGAGTGTTTCCAGG
45250 I S TGAAGCTCCTAGTGGTTTCCTTCTGTTCTGTTTT
45250 P c S ATGACGTGGCAGACGCCAGTTAGGATCTATCTAGGY
45250 P t S CGCGCCGAGGACCAGTTAGGATCTATCTAGGY
45250 T c S TACACCTAGATAGATCCTAACTGGCAAACAGAACAGAAGGAAACCACTAGGAGCTTCATT
45250 T t S TACACCTAGATAGATCCTAACTGGTAAACAGAACAGAAGGAAACCACTAGGAGCTTCATT
AGTCTAGGCACGACCACACATACTCTGCTAGAGACATACACCTAGATAGATCCTAACTGG[ct]AAACAGAACAGAAGGA
45250 IS [ct] AACCACTAGGAGCTTCATTTACAAAAACATCTACTAAGAACTAC
45253 I S GGAGAAGGAGAGAACGGACATAAAGACAGATGGCAGT
45253 P g S ATGACGTGGCAGACCCCATGAAGGAAACTCTACY
45253 P t S CGCGCCGAGGACCATGAAGGAAACTCTACAY
45253 T g S ATGCTGTAGAGTTTCCTTCATGGGCTGCCATCTGTCTTTATGTCCGTTCTCTCCTTCTCCTT
45253 T t S ATGCTGTAGAGTTTCCTTCATGGTCTGCCATCTGTCTTTATGTCCGTTCTCTCCTTCTCCTT
CTCTACTGCTAAAATCCCTGTTACCCAGCTTCTAAGCATGCTGTAGAGTTTCCTTCATGG[gt]CTGCCATCTGTCTTTAT
45253 IS [gt] GTCCGTTCTCTCCTTCTCCTTCTATGCACTGGGGTGTGCAGTC
45254 I A GCCTTATGTCTGATGGGCTGCTTTGCCCTAGT
45254 P a A CGCGCCGAGGATGTTGTGAACTAGAGAATTGTY
45254 P g A ATGACGTGGCAGACGTGTTGTGAACTAGAGAATTGY
45254 T a A GCTAACAATTCTCTAGTTCACAACATCTAGGGCAAAGCAGCCCATCAGACATAAGGCAG
45254 T g A GCTAACAATTCTCTAGTTCACAACACCTAGGGCAAAGCAGCCCATCAGACATAAGGCAG
GCCCACACTTCTTCTCCACCCTTGGTCCTGCCTTATGTCTGATGGGCTGCTTTGCCCTAG[ag]TGTTGTGAACTAGAGA
45254 IS [ag] ATTGTTAGCTCCTCAGTGGGTCACAGTTGGGGAAGATGCTGGTC
45302 I A ACACAATGAGGAAAAGACATTTCCAATACTGTTTTAAATCCTCTTAGAGTCTGACT
45302 P a A CGCGCCGAGGAGCACCTGTATTTCTGAAATY
45302 P g A ATGACGTGGCAGACGGCACCTGTATTTCTGAAAY
AGCCATTTCAGAAATACAGGTGCTGTCAGACTCTAAGAGGATTTAAAACAGTATTGGAAATGTCTTTTCCTCATTGTGT
45302 T a A TC

FIGURE 129D



Filed Under Seal

FIGURE 129D

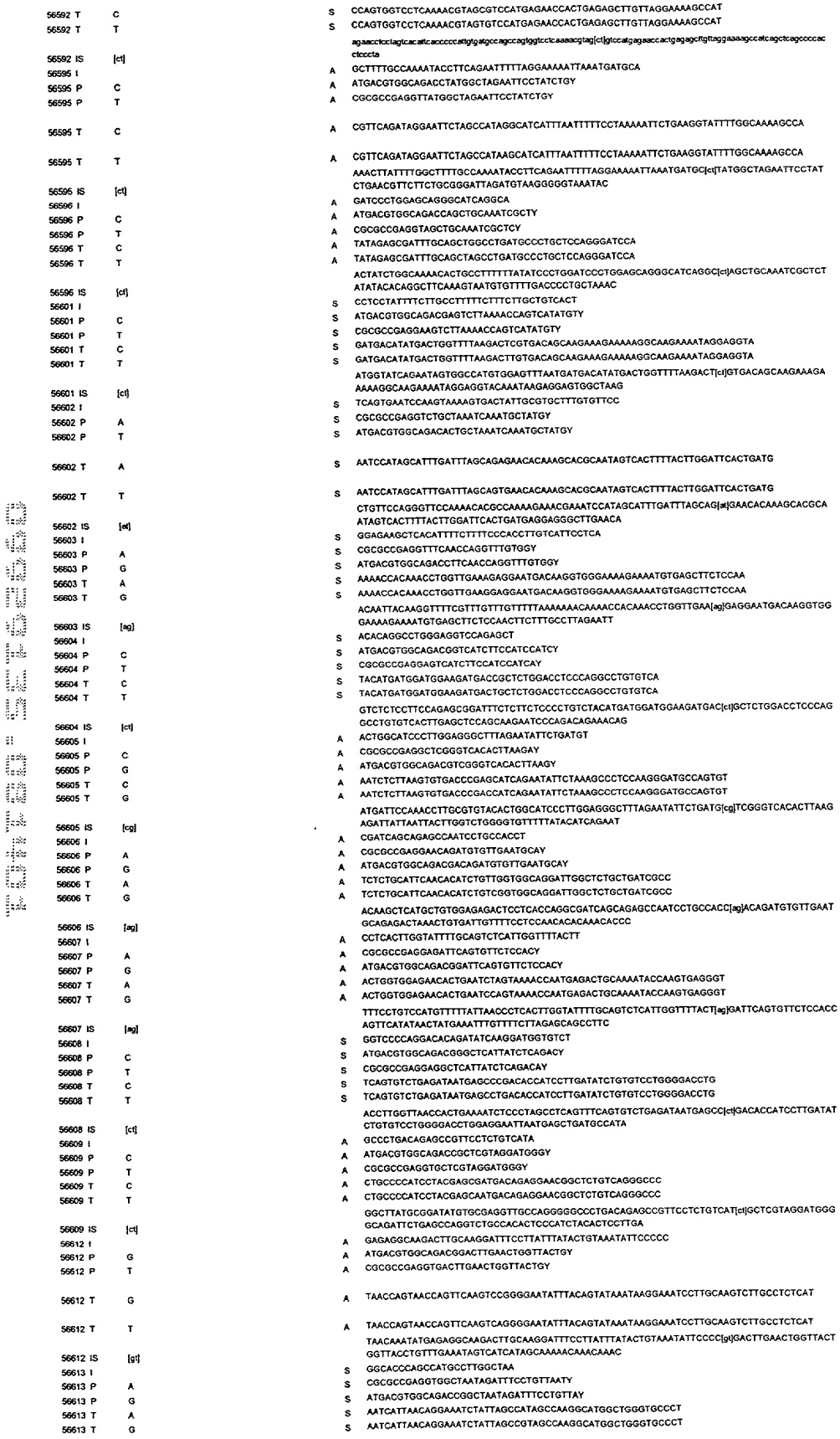

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ctcccta
56592 IS [ct]
56595 I A GCTTTTGCCAAAATACCTTCAGAATTTTTAGGAAAAATTAAATGATGCA
56595 P C A ATGACGTGGCAGACCTATGGCTAGAATTCCTATCTGY
56595 P T A CGCGCCGAGGTTATGGCTAGAATTCCTATCTGY
56595 T C A CGTTCAGATAGGAATTCTAGCCATAGGCATCATTTAATTTTTCCTAAAAATTCTGAAGGTATTTTGGCAAAAGCCA
56595 T T A CGTTCAGATAGGAATTCTAGCCATAAGCATCATTTAATTTTTCCTAAAAATTCTGAAGGTATTTTGGCAAAAGCCA
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CTGAACGTTCTTCTGCGGGATTAGATGTAAGGGGGTAAATAC
56595 IS [ct]
56596 I A GATCCCTGGAGCAGGGCATCAGGCA
56596 P C A ATGACGTGGCAGACCAGCTGCAAATCGCTY
56596 P T A CGCGCCGAGGTAGCTGCAAATCGCTCY
56596 T C A TATAGAGCGATTTGCAGCTGGCCTGATGCCCTGCTCCAGGGATCCA
56596 T T A TATAGAGCGATTTGCAGCTAGCCTGATGCCCTGCTCCAGGGATCCA
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56596 IS [ct]
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56601 P C S ATGACGTGGCAGACGAGTCTTAAAACCAGTCATATGTY
56601 P T S CGCGCCGAGGAAGTCTTAAAACCAGTCATATGTY
56601 T C S GATGACATATGACTGGTTTTAAGACTCGTGACAGCAAGAAAGAAAAAGGCAAGAAAATAGGAGGTA
56601 T T S GATGACATATGACTGGTTTTAAGACTTGTGACAGCAAGAAAGAAAAAGGCAAGAAAATAGGAGGTA
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56601 IS [ct]
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56602 P A S CGCGCCGAGGTCTGCTAAATCAAATGCTATGY
56602 P T S ATGACGTGGCAGACACTGCTAAATCAAATGCTATGY
56602 T A S AATCCATAGCATTTGATTTAGCAGAGAACACAAAGCACGCAATAGTCACTTTTACTTGGATTCACTGATG
56602 T T S AATCCATAGCATTTGATTTAGCAGTGAACACAAAGCACGCAATAGTCACTTTTACTTGGATTCACTGATG
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56602 IS [at]
56603 I S GGAGAAGCTCACATTTTCTTTTCCCACCTTGTCATTCCTCA
56603 P A S CGCGCCGAGGTTTCAACCAGGTTTGTGGY
56603 P G S ATGACGTGGCAGACCTTCAACCAGGTTTGTGGY
56603 T A S AAAACCACAAACCTGGTTGAAAGAGGAATGACAAGGTGGGAAAAGAAAATGTGAGCTTCTCCAA
56603 T G S AAAACCACAAACCTGGTTGAAGGAGGAATGACAAGGTGGGAAAAGAAAATGTGAGCTTCTCCAA
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GAAAAGAAAATGTGAGCTTCTCCAACTTCTTTGCCTTAGAATT
56603 IS [ag]
56604 I S ACACAGGCCTGGGAGGTCCAGAGCT
56604 P C S ATGACGTGGCAGACGGTCATCTTCCATCCATCY
56604 P T S CGCGCCGAGGAGTCATCTTCCATCCATCAY
56604 T C S TACATGATGGATGGAAGATGACCGCTCTGGACCTCCCAGGCCTGTGTCA
56604 T T S TACATGATGGATGGAAGATGACTGCTCTGGACCTCCCAGGCCTGTGTCA
GTCTCTCCTTCCAGAGCGGATTTCTCTTCTCCCCTGTCTACATGATGGATGGAAGATGAC[ct]GCTCTGGACCTCCCAG
GCCTGTGTCACTTGAGCTCCAGCAAGAATCCCAGACAGAAACAG
56604 IS [ct]
56605 I A ACTGGCATCCCTTGGAGGGCTTTAGAATATTCTGATGT
56605 P C A CGCGCCGAGGCTCGGGTCACACTTAAGAY
56605 P G A ATGACGTGGCAGACGTCGGGTCACACTTAAGY
56605 T C A AATCTCTTAAGTGTGACCCGAGCATCAGAATATTCTAAAGCCCTCCAAGGGATGCCAGTGT
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56606 P G A ATGACGTGGCAGACGACAGATGTGTTGAATGCAY
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56606 T G A TCTCTGCATTCAACACATCTGTCGGTGGCAGGATTGGCTCTGCTGATCGCC
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56606 IS [ag]
56607 I A CCTCACTTGGTATTTTGCAGTCTCATTGGTTTTACTT
56607 P A A CGCGCCGAGGAGATTCAGTGTTCTCCACY
56607 P G A ATGACGTGGCAGACGGATTCAGTGTTCTCCACY
56607 T A A ACTGGTGGAGAACACTGAATCTAGTAAAACCAATGAGACTGCAAAATACCAAGTGAGGGT
56607 T G A ACTGGTGGAGAACACTGAATCCAGTAAAACCAATGAGACTGCAAAATACCAAGTGAGGGT
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56607 IS [ag]
56608 I S GGTCCCCAGGACACAGATATCAAGGATGGTGTCT
56608 P C S ATGACGTGGCAGACGGGCTCATTATCTCAGACY
56608 P T S CGCGCCGAGGAGGCTCATTATCTCAGACAY
56608 T C S TCAGTGTCTGAGATAATGAGCCCGACACCATCCTTGATATCTGTGTCCTGGGGACCTG
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56609 I A GCCCTGACAGAGCCGTTCCTCTGTCATA
56609 P C A ATGACGTGGCAGACCGCTCGTAGGATGGGY
56609 P T A CGCGCCGAGGTGCTCGTAGGATGGGY
56609 T C A CTGCCCCATCCTACGAGCGATGACAGAGGAACGGCTCTGTCAGGGCCC
56609 T T A CTGCCCCATCCTACGAGCAATGACAGAGGAACGGCTCTGTCAGGGCCC
GGCTTATGCGGATATGTGCGAGGTTGCCAGGGGGCCCTGACAGAGCCGTTCCTCTGTCAT[ct]GCTCGTAGGATGGG
GCAGATTCTGAGCCAGGTCTGCCACACTCCCATCTACACTCCTTGA
56609 IS [ct]
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56612 P G A ATGACGTGGCAGACGGACTTGAACTGGTTACTGY
56612 P T A CGCGCCGAGGTGACTTGAACTGGTTACTGY
56612 T G A TAACCAGTAACCAGTTCAAGTCCGGGGAATATTTACAGTATAAATAAGGAAATCCTTGCAAGTCTTGCCTCTCAT
56612 T T A TAACCAGTAACCAGTTCAAGTCAGGGGAATATTTACAGTATAAATAAGGAAATCCTTGCAAGTCTTGCCTCTCAT
TAACAAATATGAGAGGCAAGACTTGCAAGGATTTCCTTATTTATACTGTAAATATTCCCC[gt]GACTTGAACTGGTTACT
GGTTACCTGTTTGAAATAGTCATCATAGCAAAAACAAACAAAC
56612 IS [gt]
56613 I S GGCACCCAGCCATGCCTTGGCTAA
56613 P A S CGCGCCGAGGTGGCTAATAGATTTCCTGTTAATY
56613 P G S ATGACGTGGCAGACCGGCTAATAGATTTCCTGTTAY
56613 T A S AATCATTAACAGGAAATCTATTAGCCATAGCCAAGGCATGGCTGGGTGCCCT
56613 T G S AATCATTAACAGGAAATCTATTAGCCGTAGCCAAGGCATGGCTGGGTGCCCT

FIGURE 129D

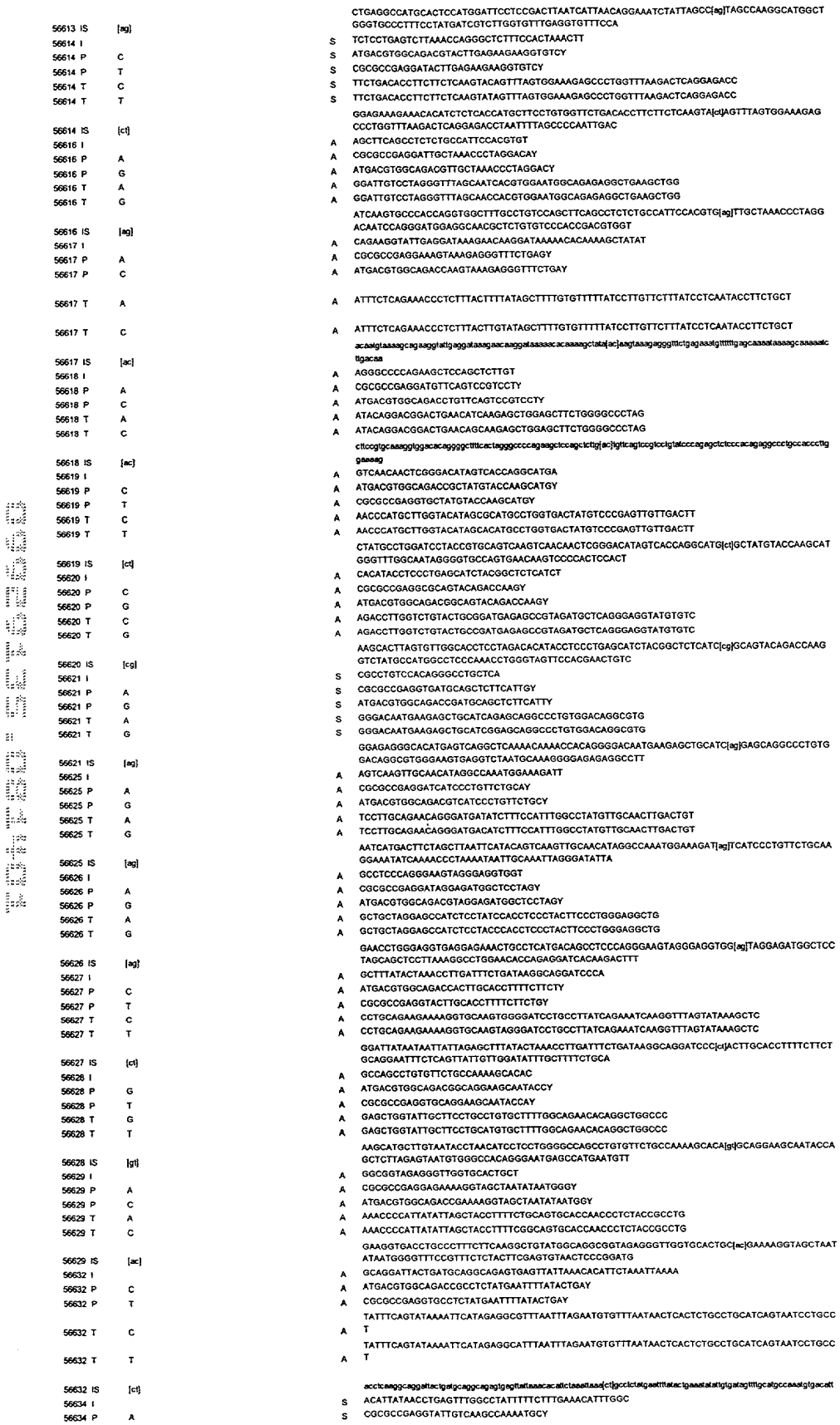
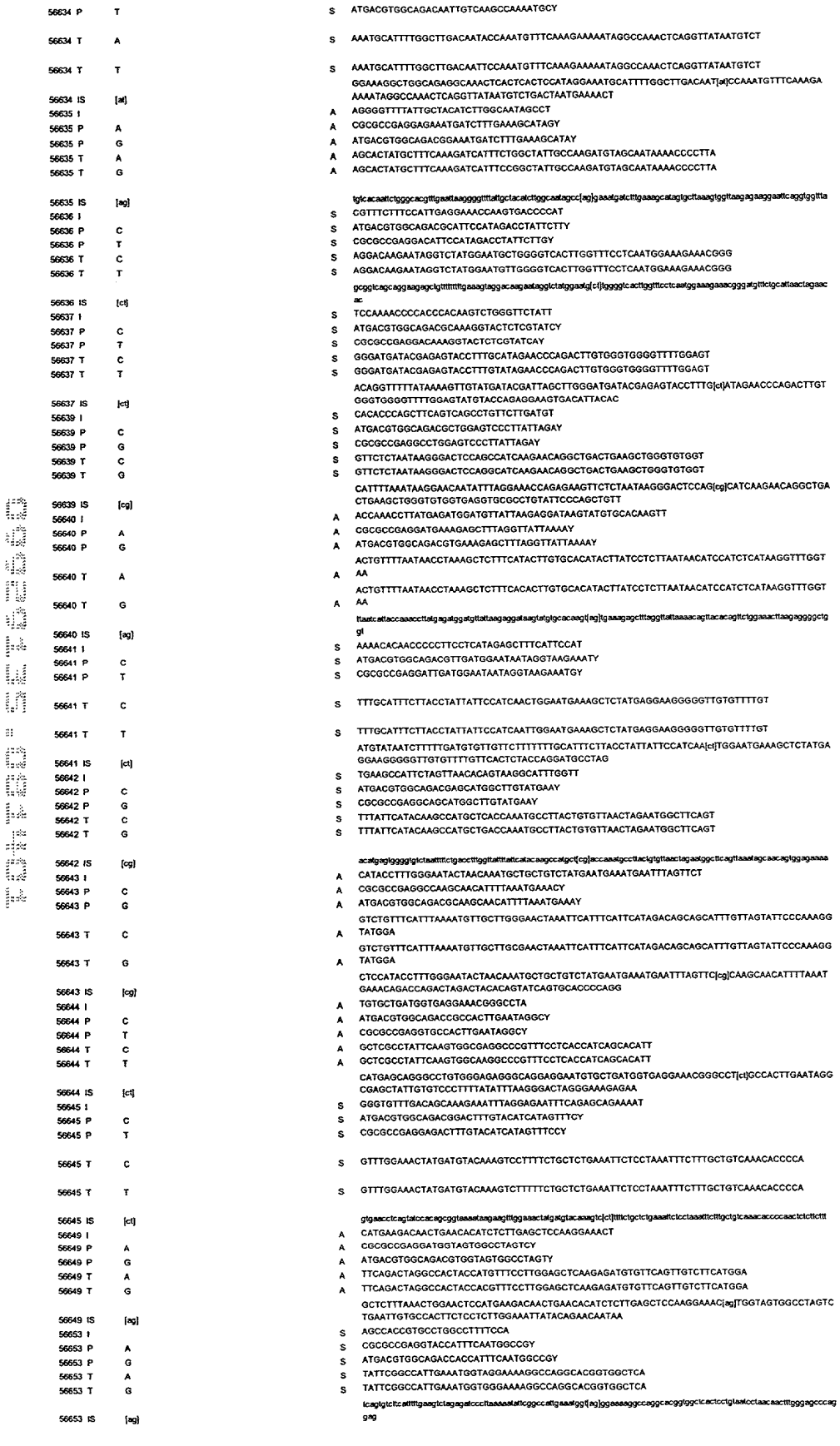

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56614 P C S ATGACGTGGCAGACGTACTTGAGAAGAAGGTGTCY
56614 P T S CGCGCCGAGGATACTTGAGAAGAAGGTGTCY
56614 T C S TTCTGACACCTTCTTCTCAAGTACAGTTTAGTGGAAAGAGCCCTGGTTTAAGACTCAGGAGACC
56614 T T S TTCTGACACCTTCTTCTCAAGTATAGTTTAGTGGAAAGAGCCCTGGTTTAAGACTCAGGAGACC
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56616 I A AGCTTCAGCCTCTCTGCCATTCCACGTGT
56616 P A A CGCGCCGAGGATTGCTAAACCCTAGGACAY
56616 P G A ATGACGTGGCAGACGTTGCTAAACCCTAGGACY
56616 T A A GGATTGTCCTAGGGTTTAGCAATCACGTGGAATGGCAGAGAGGCTGAAGCTGG
56616 T G A GGATTGTCCTAGGGTTTAGCAACCACGTGGAATGGCAGAGAGGCTGAAGCTGG
56616 IS [ag] ATCAAGTGCCCACCAGGTGGCTTTGCCTGTCCAGCTTCAGCCTCTCTGCCATTCCACGTG[ag]TTGCTAAACCCTAGG ACAATCCAGGGATGGAGGCAACGCTCTGTGTCCCACCGACGTGGT
56617 I A CAGAAGGTATTGAGGATAAAGAACAAGGATAAAAACACAAAAGCTATAT
56617 P A A CGCGCCGAGGAAAGTAAAGAGGGTTTCTGAGY
56617 P C A ATGACGTGGCAGACCAAGTAAAGAGGGTTTCTGAY
56617 T A A ATTTCTCAGAAACCCTCTTTACTTTTATAGCTTTTGTGTTTTTATCCTTGTTCTTTATCCTCAATACCTTCTGCT
56617 T C A ATTTCTCAGAAACCCTCTTTACTTGTATAGCTTTTGTGTTTTTATCCTTGTTCTTTATCCTCAATACCTTCTGCT
56617 IS [ac] acaatgtaaaagcagaaggtattgaggataaagaacaaggataaaaacacaaaagctata[ac]aagtaaagagggttctgagaaatgtttttgagcaaaataaaagcaaaaatc ttgacaa
56618 I A AGGGCCCCAGAAGCTCCAGCTCTTGT
56618 P A A CGCGCCGAGGATGTTCAGTCCGTCCTY
56618 P C A ATGACGTGGCAGACCTGTTCAGTCCGTCCTY
56618 T A A ATACAGGACGGACTGAACATCAAGAGCTGGAGCTTCTGGGGCCCTAG
56618 T C A ATACAGGACGGACTGAACAGCAAGAGCTGGAGCTTCTGGGGCCCTAG
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56619 P C A ATGACGTGGCAGACCGCTATGTACCAAGCATGY
56619 P T A CGCGCCGAGGTGCTATGTACCAAGCATGY
56619 T C A AACCCATGCTTGGTACATAGCGCATGCCTGGTGACTATGTCCCGAGTTGTTGACTT
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56619 IS [ct] CTATGCCTGGATCCTACCGTGCAGTCAAGTCAACAACTCGGGACATAGTCACCAGGCATG[ct]GCTATGTACCAAGCAT GGGTTTGGCAATAGGGGTGCCAGTGAACAAGTCCCCACTCCACT
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56620 P C A CGCGCCGAGGCGCAGTACAGACCAAGY
56620 P G A ATGACGTGGCAGACGGCAGTACAGACCAAGY
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56620 T G A AGACCTTGGTCTGTACTGCCGATGAGAGCCGTAGATGCTCAGGGAGGTATGTGTC
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56621 P A S CGCGCCGAGGTGATGCAGCTCTTCATTGY
56621 P G S ATGACGTGGCAGACCGATGCAGCTCTTCATTY
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56621 T G S GGGACAATGAAGAGCTGCATCGGAGCAGGCCCTGTGGACAGGCGTG
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56625 P A A CGCGCCGAGGATCATCCCTGTTCTGCAY
56625 P G A ATGACGTGGCAGACGTCATCCCTGTTCTGCY
56625 T A A TCCTTGCAGAACAGGGATGATATCTTTCCATTTGGCCTATGTTGCAACTTGACTGT
56625 T G A TCCTTGCAGAACAGGGATGACATCTTTCCATTTGGCCTATGTTGCAACTTGACTGT
56625 IS [ag] AATCATGACTTCTAGCTTAATTCATACAGTCAAGTTGCAACATAGGCCAAATGGAAAGAT[ag]TCATCCCTGTTCTGCAA GGAAATATCAAAACCCTAAAATAATTGCAAATTAGGGATATTA
56626 I A GCCTCCCAGGGAAGTAGGGAGGTGGT
56626 P A A CGCGCCGAGGATAGGAGATGGCTCCTAGY
56626 P G A ATGACGTGGCAGACGTAGGAGATGGCTCCTAGY
56626 T A A GCTGCTAGGAGCCATCTCCTATCCACCTCCCTACTTCCCTGGGAGGCTG
56626 T G A GCTGCTAGGAGCCATCTCCTACCCACCTCCCTACTTCCCTGGGAGGCTG
56626 IS [ag] GAACCTGGGAGGTGAGGAGAAACTGCCTCATGACAGCCTCCCAGGGAAGTAGGGAGGTGG[ag]TAGGAGATGGCTCC TAGCAGCTCCTTAAAGGCCTGGAACACCAGAGGATCACAAGACTTT
56627 I A GCTTTATACTAAACCTTGATTTCTGATAAGGCAGGATCCCA
56627 P C A ATGACGTGGCAGACCACTTGCACCTTTTCTTCTY
56627 P T A CGCGCCGAGGTACTTGCACCTTTTCTTCTGY
56627 T C A CCTGCAGAAGAAAAGGTGCAAGTAGGGATCCTGCCTTATCAGAAATCAAGGTTTAGTATAAAGCTC
56627 T T A CCTGCAGAAGAAAAGGTGCAAGTAGGGATCCTGCCTTATCAGAAATCAAGGTTTAGTATAAAGCTC
56627 IS [ct] GGATTATAATAATTATTAGAGCTTTATACTAAACCTTGATTTCTGATAAGGCAGGATCCC[ct]ACTTGCACCTTTTCTTCT GCAGGAATTTCTCAGTTATTGTTGGATATTTGCTTTTCTGCA
56628 I A GCCAGCCTGTGTTCTGCCAAAAGCACAC
56628 P G A ATGACGTGGCAGACGGCAGGAAGCAATACCY
56628 P T A CGCGCCGAGGTGCAGGAAGCAATACCAY
56628 T G A GAGCTGGTATTGCTTCCTGCCTGTGCTTTTGGCAGAACACAGGCTGGCCC
56628 T T A GAGCTGGTATTGCTTCCTGCATGTGCTTTTGGCAGAACACAGGCTGGCCC
56628 IS [gt] AAGCATGCTTGTAATACCTAACATCCTCCTGGGGCCAGCCTGTGTTCTGCCAAAAGCACA[gt]GCAGGAAGCAATACCA GCTCTTAGAGTAATGTGGGCCACAGGGAATGAGCCATGAATGTT
56629 I A GGCGGTAGAGGGTTGGTGCACTGCT
56629 P A A CGCGCCGAGGAGAAAAGGTAGCTAATATAATGGGY
56629 P C A ATGACGTGGCAGACCGAAAAGGTAGCTAATATAATGGY
56629 T A A AAACCCCATTATATTAGCTACCTTTTCTGCAGTGCACCAACCCTCTACCGCCTG
56629 T C A AAACCCCATTATATTAGCTACCTTTTCGGCAGTGCACCAACCCTCTACCGCCTG
56629 IS [ac] GAAGGTGACCTGCCCTTTCTTCAAGGCTGTATGGCAGGCGGTAGAGGGTTGGTGCACTGC[ac]GAAAAGGTAGCTAAT ATAATGGGGTTTCCGTTTCTCTACTTCGAGTGTAACTCCCGGATG
56632 I A GCAGGATTACTGATGCAGGCAGAGTGAGTTATTAAACACATTCTAAATTAAAA
56632 P C A ATGACGTGGCAGACCGCCTCTATGAATTTTATACTGAY
56632 P T A CGCGCCGAGGTGCCTCTATGAATTTTATACTGAY
56632 T C A TATTTCAGTATAAAATTCATAGAGGCGTTTAATTTAGAATGTGTTTAATAACTCACTCTGCCTGCATCAGTAATCCTGCC T
56632 T T A TATTTCAGTATAAAATTCATAGAGGCATTTAATTTAGAATGTGTTTAATAACTCACTCTGCCTGCATCAGTAATCCTGCC T
56632 IS [ct] acctcaaggcaggattactgatgcaggcagagtgagttattaaacacattctaaattaaa[ct]gcctctatgaatttatactgaaatatatgtgatagtttgcatgccaaatgtgacatt
56634 I S ACATTATAACCTGAGTTTGGCCTATTTTTCTTTGAAACATTTGGC
56634 P A S CGCGCCGAGGTATTGTCAAGCCAAAATGCY

FIGURE 129D


56634 P T S ATGACGTGGCAGACAATTGTCAAGCCAAAATGCY
56634 T A S AAATGCATTTTGGCTTGACAATACCAAATGTTTCAAAGAAAAATAGGCCAAACTCAGGTTATAATGTCT
56634 T T S AAATGCATTTTGGCTTGACAATTCCAAATGTTTCAAAGAAAAATAGGCCAAACTCAGGTTATAATGTCT
GGAAAGGCTGGCAGAGGCAAACTCACTCACTCCATAGGAAATGCATTTTGGCTTGACAAT[at]CCAAATGTTTCAAAGA
56634 IS [at] AAAATAGGCCAAACTCAGGTTATAATGTCTGACTAATGAAAACT
56635 I A AGGGGTTTTATTGCTACATCTTGGCAATAGCCT
56635 P A A CGCGCCGAGGAGAAATGATCTTTGAAAGCATAGY
56635 P G A ATGACGTGGCAGACGGAAATGATCTTTGAAAGCATAY
56635 T A A AGCACTATGCTTTCAAAGATCATTTCTGGCTATTGCCAAGATGTAGCAATAAAACCCCTTA
56635 T G A AGCACTATGCTTTCAAAGATCATTTCCGGCTATTGCCAAGATGTAGCAATAAAACCCCTTA
tgtcacaatctgggcacgttgaattaaggggtttaatgctacatcttggcaatagcc[ag]gaaatgatcttgaaagcatagtgcttaaagtggttaagagaaggaattcaggtggttta
56635 IS [ag]
56636 I S CGTTTCTTTCCATTGAGGAAACCAAGTGACCCCAT
56636 P C S ATGACGTGGCAGACGCATTCCATAGACCTATTCTTY
56636 P T S CGCGCCGAGGACATTCCATAGACCTATTCTTGY
56636 T C S AGGACAAGAATAGGTCTATGGAATGCTGGGGTCACTTGGTTTCCTCAATGGAAAGAAACGGG
56636 T T S AGGACAAGAATAGGTCTATGGAATGTTGGGGTCACTTGGTTTCCTCAATGGAAAGAAACGGG
gcggtcagcaggaagagcgtgttttttgaaagtaggacaagaataggtctatggaatg[ct]gggggtcacttggtttcctcaatggaaagaaacgggatgtttctgcattaactagaac
ac
56636 IS [ct]
56637 I S TCCAAAACCCCACCCACAAGTCTGGGTTCTATT
56637 P C S ATGACGTGGCAGACGCAAAGGTACTCTCGTATCY
56637 P T S CGCGCCGAGGACAAAGGTACTCTCGTATCAY
56637 T C S GGGATGATACGAGAGTACCTTTGCATAGAACCCAGACTTGTGGGTGGGGTTTTGGAGT
56637 T T S GGGATGATACGAGAGTACCTTTGTATAGAACCCAGACTTGTGGGTGGGGTTTTGGAGT
ACAGGTTTTTATAAAAGTTGTATGATACGATTAGCTTGGGATGATACGAGAGTACCTTTG[ct]ATAGAACCCAGACTTGT
56637 IS [ct] GGGTGGGGTTTTGGAGTATGTACCAGAGGAAGTGACATTACAC
56639 I S CACACCCAGCTTCAGTCAGCCTGTTCTTGATGT
56639 P C S ATGACGTGGCAGACGCTGGAGTCCCTTATTAGAY
56639 P G S CGCGCCGAGGCCTGGAGTCCCTTATTAGAY
56639 T C S GTTCTCTAATAAGGGACTCCAGCCATCAAGAACAGGCTGACTGAAGCTGGGTGTGGT
56639 T G S GTTCTCTAATAAGGGACTCCAGGCATCAAGAACAGGCTGACTGAAGCTGGGTGTGGT
CATTTTAAATAAGGAACAATATTTAGGAAACCAGAGAAGTTCTCTAATAAGGGACTCCAG[cg]CATCAAGAACAGGCTGA
56639 IS [cg] CTGAAGCTGGGTGTGGTGAGGTGCGCCTGTATTCCCAGCTGTT
56640 I A ACCAAACCTTATGAGATGGATGTTATTAAGAGGATAAGTATGTGCACAAGTT
56640 P A A CGCGCCGAGGATGAAAGAGCTTTAGGTTATTAAAAY
56640 P G A ATGACGTGGCAGACGTGAAAGAGCTTTAGGTTATTAAAAY
ACTGTTTTAATAACCTAAAGCTCTTTCATACTTGTGCACATACTTATCCTCTTAATAACATCCATCTCATAAGGTTTGGT
56640 T A A AA
ACTGTTTTAATAACCTAAAGCTCTTTCACACTTGTGCACATACTTATCCTCTTAATAACATCCATCTCATAAGGTTTGGT
56640 T G A AA
ttaatcattaccaaaccttatgagatggatgttattaagaggattaagtatgtgcacaag[ag]tgaaagagctttaggttattaaaacagttacacagttctggaaacttaagaggggctg
56640 IS [ag] gt
56641 I S AAAACACAACCCCCTTCCTCATAGAGCTTTCATTCCAT
56641 P C S ATGACGTGGCAGACGTTGATGGAATAATAGGTAAGAAATY
56641 P T S CGCGCCGAGGATTGATGGAATAATAGGTAAGAAATGY
56641 T C S TTTGCATTTCTTACCTATTATTCCATCAACTGGAATGAAAGCTCTATGAGGAAGGGGGTTGTGTTTTGT
56641 T T S TTTGCATTTCTTACCTATTATTCCATCAATTGGAATGAAAGCTCTATGAGGAAGGGGGTTGTGTTTTGT
ATGTATAATCTTTTTGATGTGTTGTTCTTTTTTTGCATTTCTTACCTATTATTCCATCAA[ct]TGGAATGAAAGCTCTATGA
56641 IS [ct] GGAAGGGGGTTGTGTTTTGTTCACTCTACCAGGATGCCTAG
56642 I S TGAAGCCATTCTAGTTAACACAGTAAGGCATTTGGTT
56642 P C S ATGACGTGGCAGACGAGCATGGCTTGTATGAAY
56642 P G S CGCGCCGAGGCAGCATGGCTTGTATGAAY
56642 T C S TTTATTCATACAAGCCATGCTCACCAAATGCCTTACTGTGTTAACTAGAATGGCTTCAGT
56642 T G S TTTATTCATACAAGCCATGCTGACCAAATGCCTTACTGTGTTAACTAGAATGGCTTCAGT
acatgagtgggggtgtctaatttctgacctttggttatttattcatacaagccatgct[cg]accaaatgccttactgtgttaactagaatggcttcagttaaatagcaacagtggagaaaa
56642 IS [cg]
56643 I A CATACCTTTGGGAATACTAACAAATGCTGCTGTCTATGAATGAAATGAATTTAGTTCT
56643 P C A CGCGCCGAGGCCAAGCAACATTTTAAATGAAACY
56643 P G A ATGACGTGGCAGACGCAAGCAACATTTTAAATGAAAY
GTCTGTTTCATTTAAAATGTTGCTTGGGAACTAAATTCATTTCATTCATAGACAGCAGCATTTGTTAGTATTCCCAAAGG
56643 T C A TATGGA
GTCTGTTTCATTTAAAATGTTGCTTGCGAACTAAATTCATTTCATTCATAGACAGCAGCATTTGTTAGTATTCCCAAAGG
56643 T G A TATGGA
CTCCATACCTTTGGGAATACTAACAAATGCTGCTGTCTATGAATGAAATGAATTTAGTTC[cg]CAAGCAACATTTTAAAT
56643 IS [cg] GAAACAGACCAGACTAGACTACACAGTATCAGTGCACCCCAGG
56644 I A TGTGCTGATGGTGAGGAAACGGGCCTA
56644 P C A ATGACGTGGCAGACCGCCACTTGAATAGGCY
56644 P T A CGCGCCGAGGTGCCACTTGAATAGGCY
56644 T C A GCTCGCCTATTCAAGTGGCGAGGCCCGTTTCCTCACCATCAGCACATT
56644 T T A GCTCGCCTATTCAAGTGGCAAGGCCCGTTTCCTCACCATCAGCACATT
CATGAGCAGGGCCTGTGGGAGAGGGCAGGAGGAATGTGCTGATGGTGAGGAAACGGGCCT[ct]GCCACTTGAATAGG
56644 IS [ct] CGAGCTATTGTGTCCCTTTTATATTTAAGGGACTAGGGAAAGAGAA
56645 I S GGGTGTTTGACAGCAAAGAAATTTAGGAGAATTTCAGAGCAGAAAAT
56645 P C S ATGACGTGGCAGACGGACTTTGTACATCATAGTTTCY
56645 P T S CGCGCCGAGGAGACTTTGTACATCATAGTTTCCY
56645 T C S GTTTGGAAACTATGATGTACAAAGTCCTTTTCTGCTCTGAAATTCTCCTAAATTTCTTTGCTGTCAAACACCCCA
56645 T T S GTTTGGAAACTATGATGTACAAAGTCTTTTTCTGCTCTGAAATTCTCCTAAATTTCTTTGCTGTCAAACACCCCA
gtgaacctcagtatccacagcggtaaaataagaagtttggaaactatgatgtacaaagtc[ct]tttctgctctgaaattctcctaaatttctttgctgtcaaacaccccaactctctcttctt
56645 IS [ct]
56649 I A CATGAAGACAACTGAACACATCTCTTGAGCTCCAAGGAAACT
56649 P A A CGCGCCGAGGATGGTAGTGGCCTAGTCY
56649 P G A ATGACGTGGCAGACGTGGTAGTGGCCTAGTY
56649 T A A TTCAGACTAGGCCACTACCATGTTTCCTTGGAGCTCAAGAGATGTGTTCAGTTGTCTTCATGGA
56649 T G A TTCAGACTAGGCCACTACCACGTTTCCTTGGAGCTCAAGAGATGTGTTCAGTTGTCTTCATGGA
GCTCTTTAAACTGGAACTCCATGAAGACAACTGAACACATCTCTTGAGCTCCAAGGAAAC[ag]TGGTAGTGGCCTAGTC
56649 IS [ag] TGAATTGTGCCACTTCTCCTCTTGGAAATTATACAGAACAATAA
56653 I S AGCCACCGTGCCTGGCCTTTTCCA
56653 P A S CGCGCCGAGGTACCATTTCAATGGCCGY
56653 P G S ATGACGTGGCAGACCACCATTTCAATGGCCGY
56653 T A S TATTCGGCCATTGAAATGGTAGGAAAAGGCCAGGCACGGTGGCTCA
56653 T G S TATTCGGCCATTGAAATGGTGGGAAAAGGCCAGGCACGGTGGCTCA
tcagtgtcttcatttttgaagtctagagatcccttaaaaatattcggccattgaaatggt[ag]ggaaaaggccaggcacggtggctcactcctgtaatcctaacaacttttgggagcccag
56653 IS [ag] g#g

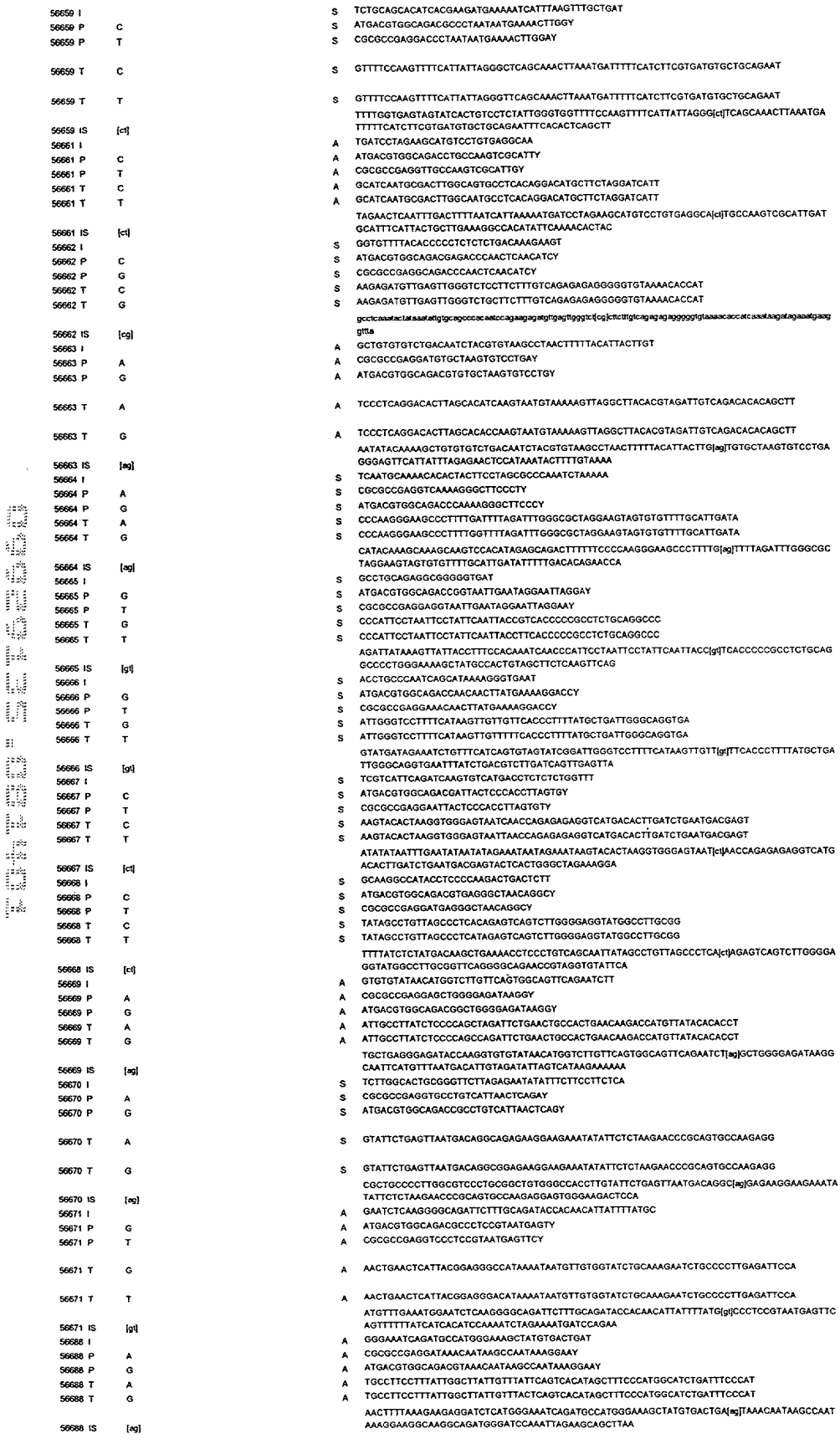

56659 I S TCTGCAGCACATCACGAAGATGAAAAATCATTTAAGTTTGCTGAT
56659 P C S ATGACGTGGCAGACGCCCTAATAATGAAAACTTGGY
56659 P T S CGCGCCGAGGACCCTAATAATGAAAACTTGGAY
56659 T C S GTTTTCCAAGTTTTCATTATTAGGGCTCAGCAAACTTAAATGATTTTTCATCTTCGTGATGTGCTGCAGAAT
56659 T T S GTTTTCCAAGTTTTCATTATTAGGGTTCAGCAAACTTAAATGATTTTTCATCTTCGTGATGTGCTGCAGAAT
56659 IS [ct] TTTTGGTGAGTAGTATCACTGTCCTCTATTGGGTGGTTTTCCAAGTTTTCATTATTAGGG[ct]TCAGCAAACTTAAATGA TTTTTCATCTTCGTGATGTGCTGCAGAATTTCACACTCAGCTT
56661 I A TGATCCTAGAAGCATGTCCTGTGAGGCAA
56661 P C A ATGACGTGGCAGACCTGCCAAGTCGCATTY
56661 P T A CGCGCCGAGGTTGCCAAGTCGCATTGY
56661 T C A GCATCAATGCGACTTGGCAGTGCCTCACAGGACATGCTTCTAGGATCATT
56661 T T A GCATCAATGCGACTTGGCAATGCCTCACAGGACATGCTTCTAGGATCATT
56661 IS [ct] TAGAACTCAATTTGACTTTTAATCATTAAAAATGATCCTAGAAGCATGTCCTGTGAGGCA[ct]TGCCAAGTCGCATTGAT GCATTTCATTACTGCTTGAAAGGCCACATATTCAAAACACTAC
56662 I S GGTGTTTTACACCCCCTCTCTCTGACAAAGAAGT
56662 P C S ATGACGTGGCAGACGAGACCCAACTCAACATCY
56662 P G S CGCGCCGAGGCAGACCCAACTCAACATCY
56662 T C S AAGAGATGTTGAGTTGGGTCTCCTTCTTTGTCAGAGAGAGGGGGGTGTAAAACACCAT
56662 T G S AAGAGATGTTGAGTTGGGTCTGCTTCTTTGTCAGAGAGAGGGGGGTGTAAAACACCAT
56662 IS [cg] gcctcaaatactataaatatgtgcagcccacaatccagaagagatgttgagttgggtct[cg]cttcttttgtcagagagagggggtgtaaaacaccatcaaatagatagaaatgaag gttta
56663 I A GCTGTGTGTCTGACAATCTACGTGTAAGCCTAACTTTTTACATTACTTGT
56663 P A A CGCGCCGAGGATGTGCTAAGTGTCCTGAY
56663 P G A ATGACGTGGCAGACGTGTGCTAAGTGTCCTGY
56663 T A A TCCCTCAGGACACTTAGCACATCAAGTAATGTAAAAAGTTAGGCTTACACGTAGATTGTCAGACACACAGCTT
56663 T G A TCCCTCAGGACACTTAGCACACCAAGTAATGTAAAAAGTTAGGCTTACACGTAGATTGTCAGACACACAGCTT
56663 IS [ag] AATATACAAAAGCTGTGTGTCTGACAATCTACGTGTAAGCCTAACTTTTTACATTACTTG[ag]TGTGCTAAGTGTCCTGA GGGAGTTCATTATTTAGAGAACTCCATAAATACTTTTGTAAAA
56664 I S TCAATGCAAAACACACTACTTCCTAGCGCCCAAATCTAAAAA
56664 P A S CGCGCCGAGGTCAAAAGGGCTTCCCTY
56664 P G S ATGACGTGGCAGACCCAAAAGGGCTTCCCY
56664 T A S CCCAAGGGAAGCCCTTTTGATTTTAGATTTGGGCGCTAGGAAGTAGTGTGTTTTGCATTGATA
56664 T G S CCCAAGGGAAGCCCTTTTGGTTTTAGATTTGGGCGCTAGGAAGTAGTGTGTTTTGCATTGATA
56664 IS [ag] CATACAAAGCAAAGCAAGTCCACATAGAGCAGACTTTTTTCCCCAAGGGAAGCCCTTTTG[ag]TTTTAGATTTGGGCGC TAGGAAGTAGTGTGTTTTGCATTGATATTTTTGACACAGAACCA
56665 I S GCCTGCAGAGGCGGGGGTGAT
56665 P G S ATGACGTGGCAGACCGGTAATTGAATAGGAATTAGGAY
56665 P T S CGCGCCGAGGAGGTAATTGAATAGGAATTAGGAY
56665 T G S CCCATTCCTAATTCCTATTCAATTACCGTCACCCCCGCCTCTGCAGGCCC
56665 T T S CCCATTCCTAATTCCTATTCAATTACCTTCACCCCCGCCTCTGCAGGCCC
56665 IS [gt] AGATTATAAAGTTATTACCTTTCCACAAATCAACCCATTCCTAATTCCTATTCAATTACC[gt]TCACCCCCGCCTCTGCAG GCCCCTGGGAAAAGCTATGCCACTGTAGCTTCTCAAGTTCAG
56666 I S ACCTGCCCAATCAGCATAAAAGGGTGAAT
56666 P G S ATGACGTGGCAGACCAACAACTTATGAAAAGGACCY
56666 P T S CGCGCCGAGGAAACAACTTATGAAAAGGACCY
56666 T G S ATTGGGTCCTTTTCATAAGTTGTTGTTCACCCTTTTATGCTGATTGGGCAGGTGA
56666 T T S ATTGGGTCCTTTTCATAAGTTGTTTTTCACCCTTTTATGCTGATTGGGCAGGTGA
56666 IS [gt] GTATGATAGAAATCTGTTTCATCAGTGTAGTATCGGATTGGGTCCTTTTCATAAGTTGTT[gt]TTCACCCTTTTATGCTGA TTGGGCAGGTGAATTTATCTGACGTCTTGATCAGTTGAGTTA
56667 I S TCGTCATTCAGATCAAGTGTCATGACCTCTCTCTGGTTT
56667 P C S ATGACGTGGCAGACGATTACTCCCACCTTAGTGY
56667 P T S CGCGCCGAGGAATTACTCCCACCTTAGTGTY
56667 T C S AAGTACACTAAGGTGGGAGTAATCAACCAGAGAGAGGTCATGACACTTGATCTGAATGACGAGT
56667 T T S AAGTACACTAAGGTGGGAGTAATTAACCAGAGAGAGGTCATGACACTTGATCTGAATGACGAGT
56667 IS [ct] ATATATAATTTGAATATAATATAGAAATAATAGAAATAAGTACACTAAGGTGGGAGTAAT[ct]AACCAGAGAGAGGTCATG ACACTTGATCTGAATGACGAGTACTCACTGGGCTAGAAAGGA
56668 I S GCAAGGCCATACCTCCCCAAGACTGACTCTT
56668 P C S ATGACGTGGCAGACGTGAGGGCTAACAGGCY
56668 P T S CGCGCCGAGGATGAGGGCTAACAGGCY
56668 T C S TATAGCCTGTTAGCCCTCACAGAGTCAGTCTTGGGGAGGTATGGCCTTGCGG
56668 T T S TATAGCCTGTTAGCCCTCATAGAGTCAGTCTTGGGGAGGTATGGCCTTGCGG
56668 IS [ct] TTTTATCTCTATGACAAGCTGAAAACCTCCCTGTCAGCAATTATAGCCTGTTAGCCCTCA[ct]AGAGTCAGTCTTGGGGA GGTATGGCCTTGCGGTTCAGGGGCAGAACCGTAGGTGTATTCA
56669 I A GTGTGTATAACATGGTCTTGTTCAGTGGCAGTTCAGAATCTT
56669 P A A CGCGCCGAGGAGCTGGGGAGATAAGGY
56669 P G A ATGACGTGGCAGACGGCTGGGGAGATAAGGY
56669 T A A ATTGCCTTATCTCCCCAGCTAGATTCTGAACTGCCACTGAACAAGACCATGTTATACACACCT
56669 T G A ATTGCCTTATCTCCCCAGCCAGATTCTGAACTGCCACTGAACAAGACCATGTTATACACACCT
56669 IS [ag] TGCTGAGGGAGATACCAAGGTGTGTATAACATGGTCTTGTTCAGTGGCAGTTCAGAATCT[ag]GCTGGGGAGATAAGG CAATTCATGTTTAATGACATTGTAGATATTAGTCATAAGAAAAAA
56670 I S TCTTGGCACTGCGGGTTCTTAGAGAATATATTTCTTCCTTCTCA
56670 P A S CGCGCCGAGGTGCCTGTCATTAACTCAGAY
56670 P G S ATGACGTGGCAGACCGCCTGTCATTAACTCAGY
56670 T A S GTATTCTGAGTTAATGACAGGCAGAGAAGGAAGAAATATATTCTCTAAGAACCCGCAGTGCCAAGAGG
56670 T G S GTATTCTGAGTTAATGACAGGCGGAGAAGGAAGAAATATATTCTCTAAGAACCCGCAGTGCCAAGAGG
56670 IS [ag] CGCTGCCCCTTGGCGTCCCTGCGGCTGTGGGCCACCTTGTATTCTGAGTTAATGACAGGC[ag]GAGAAGGAAGAAATA TATTCTCTAAGAACCCGCAGTGCCAAGAGGAGTGGGAAGACTCCA
56671 I A GAATCTCAAGGGGCAGATTCTTTGCAGATACCACAACATTATTTTATGC
56671 P G A ATGACGTGGCAGACGCCCTCCGTAATGAGTY
56671 P T A CGCGCCGAGGTCCCTCCGTAATGAGTTCY
56671 T G A AACTGAACTCATTACGGAGGGCCATAAAATAATGTTGTGGTATCTGCAAAGAATCTGCCCCTTGAGATTCCA
56671 T T A AACTGAACTCATTACGGAGGGACATAAAATAATGTTGTGGTATCTGCAAAGAATCTGCCCCTTGAGATTCCA
56671 IS [gt] ATGTTTGAAATGGAATCTCAAGGGGCAGATTCTTTGCAGATACCACAACATTATTTTATG[gt]CCCTCCGTAATGAGTTC AGTTTTTTATCATCACATCCAAAATCTAGAAAATGATCCAGAA
56688 I A GGGAAATCAGATGCCATGGGAAAGCTATGTGACTGAT
56688 P A A CGCGCCGAGGATAAACAATAAGCCAATAAAGGAAY
56688 P G A ATGACGTGGCAGACGTAAACAATAAGCCAATAAAGGAAY
56688 T A A TGCCTTCCTTTATTGGCTTATTGTTTATTCAGTCACATAGCTTTCCCATGGCATCTGATTTCCCAT
56688 T G A TGCCTTCCTTTATTGGCTTATTGTTTACTCAGTCACATAGCTTTCCCATGGCATCTGATTTCCCAT
56688 IS [ag] AACTTTTAAAGAAGAGGATCTCATGGGAAATCAGATGCCATGGGAAAGCTATGTGACTGA[ag]TAAACAATAAGCCAAT AAAGGAAGGCAAGGCAGATGGGATCCAAATTAGAAGCAGCTTAA

FIGURE 129D

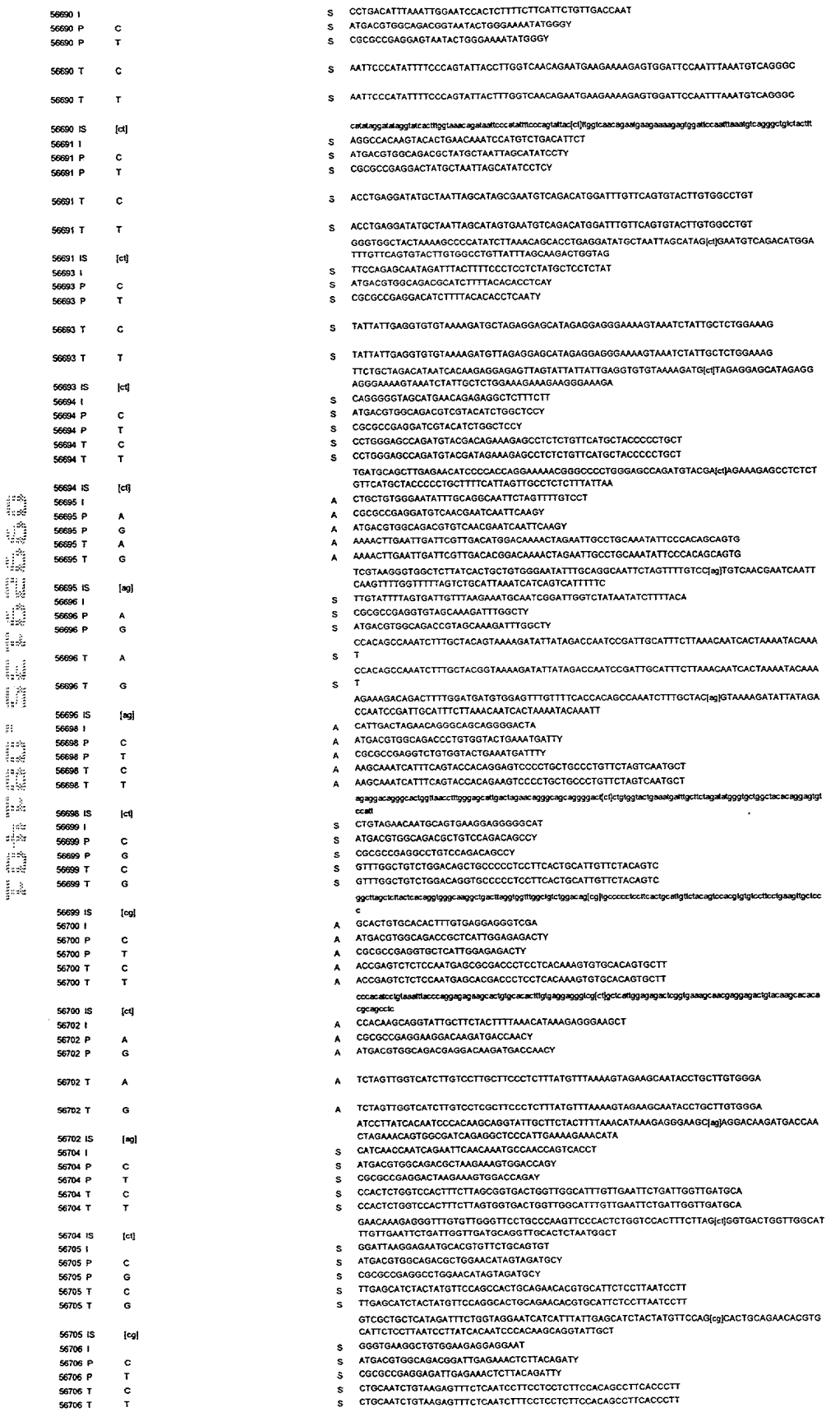


FIGURE 129D

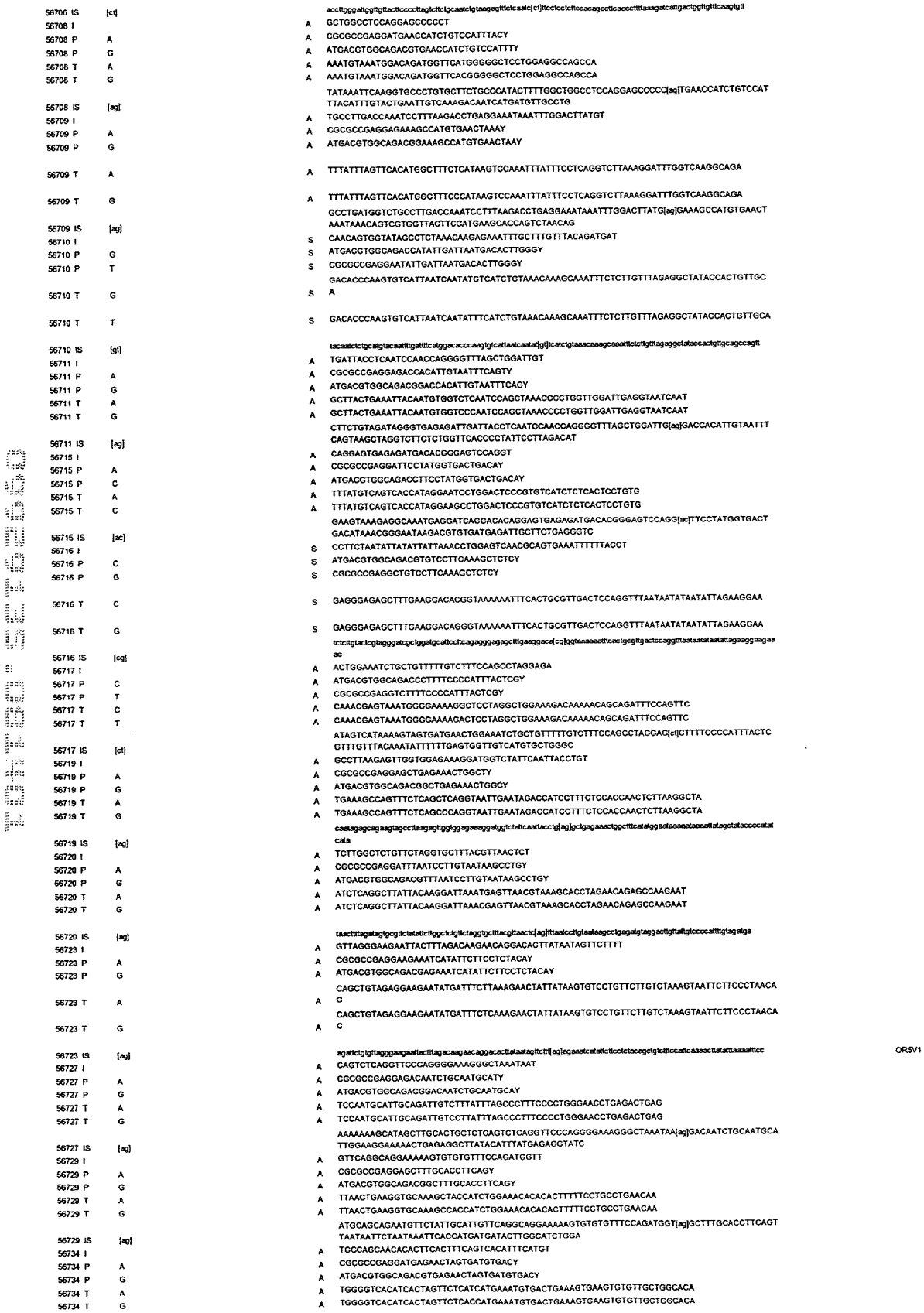

56706 IS [ct]
56708 I
56708 P A
56708 P G
56708 T A
56708 T G
56708 IS [ag]
56709 I
56709 P A
56709 P G
56709 T A
56709 T G
56709 IS [ag]
56710 I
56710 P G
56710 P T
56710 T G
56710 T T
56710 IS [gt]
56711 I
56711 P A
56711 P G
56711 T A
56711 T G
56711 IS [ag]
56715 I
56715 P A
56715 P C
56715 T A
56715 T C
56715 IS [ac]
56716 I
56716 P C
56716 P G
56716 T C
56716 T G
56716 IS [cg]
56717 I
56717 P C
56717 P T
56717 T C
56717 T T
56717 IS [ct]
56719 I
56719 P A
56719 P G
56719 T A
56719 T G
56719 IS [ag]
56720 I
56720 P A
56720 P G
56720 T A
56720 T G
56720 IS [ag]
56723 I
56723 P A
56723 P G
56723 T A
56723 T G
56723 IS [ag]
56727 I
56727 P A
56727 P G
56727 T A
56727 T G
56727 IS [ag]
56729 I
56729 P A
56729 P G
56729 T A
56729 T G
56729 IS [ag]
56734 I
56734 P A
56734 P G
56734 T A
56734 T G

FIGURE 129D

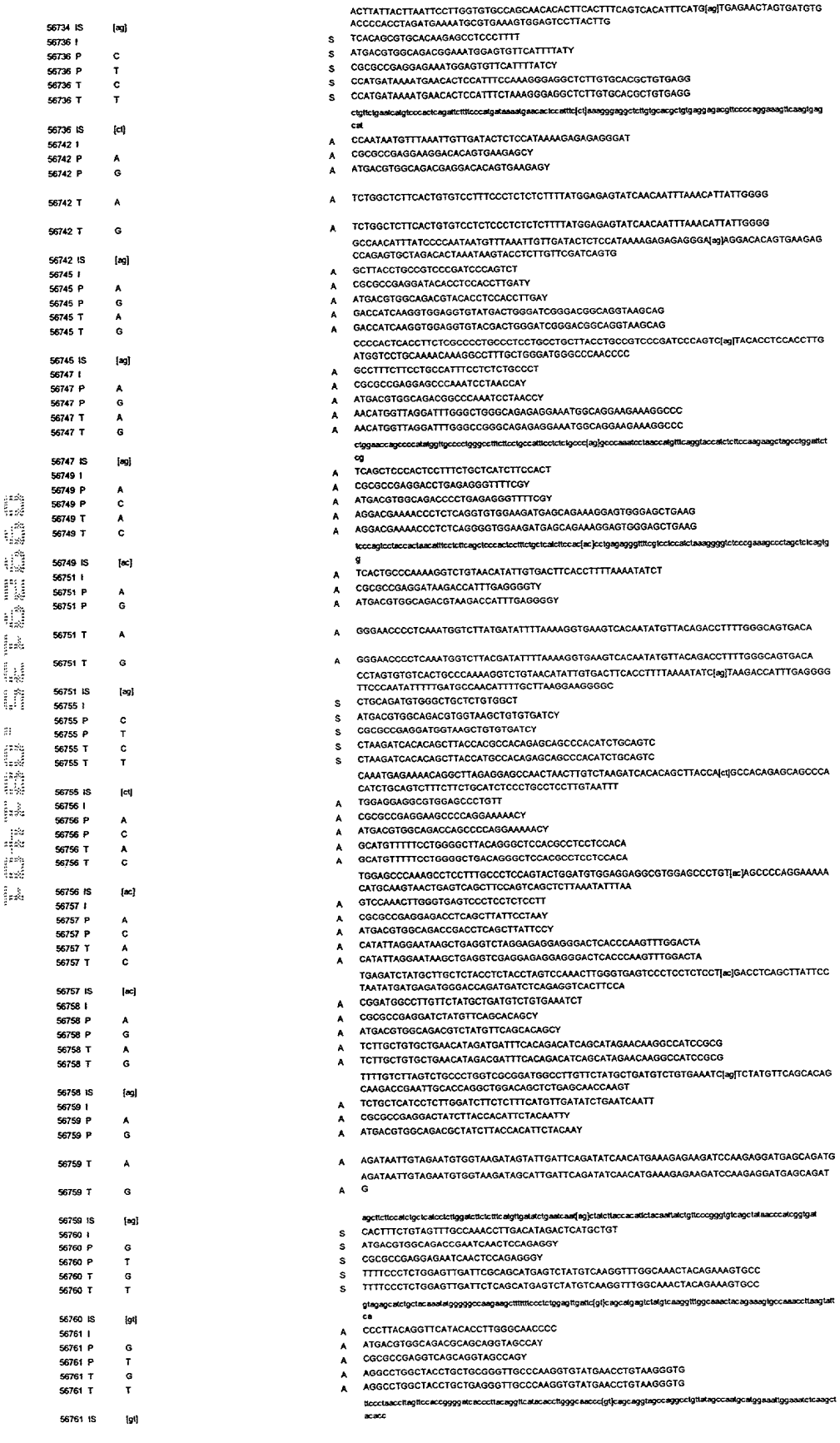


FIGURE 129D

56763	I		A	GCTCTTCAACTCCTAGGCCATGACAGACAGGTAA
56763	P	C	A	ATGACGTGGCAGACCGACATAGGTAGTATAGTCTTCTY
56763	P	T	A	CGCGCCGAGGTGACATAGGTAGTATAGTCTTCTY
56763	T	C	A	CCACAGAAGACTATACTACCTATGTCGTACCTGTCTGTCATGGCCTAGGAGTTGAAGAGCAA
56763	T	T	A	CCACAGAAGACTATACTACCTATGTCATACCTGTCTGTCATGGCCTAGGAGTTGAAGAGCAA
56763	IS	[ct]		TAGAGAATTAGCGCACCATTCTGATTTGCTCTTCAACTCCTAGGCCATGACAGACAGGTA[ct]GACATAGGTAGTATAG TCTTCTGTGGGAACCACGGGAACACAGATCTGACTGCAGGGAGT
56766	I		A	CCCCTTGGTATTTTGTTTTCTACTTCTGGAATAAATTGACCCTCCTCT
56766	P	A	A	CGCGCCGAGGAAATTTTCTTTTCTCTCTACTTTGTAY
56766	P	G	A	ATGACGTGGCAGACGAATTTTCTTTTCTCTCTACTTTGTY
56766	T	A	A	ACCTTACAAAGTAGAGAGAAAAGAAAATTTGAGGAGGGTCAATTTATTCCAGAAGTAGAAAACAAAATACCAAGGGGA G
56766	T	G	A	ACCTTACAAAGTAGAGAGAAAAGAAAATTCGAGGAGGGTCAATTTATTCCAGAAGTAGAAAACAAAATACCAAGGGGA G
56766	IS	[ag]		TTAATACTCTTCTCCCCTTGGTATTTTGTTTTCTACTTCTGGAATAAATTGACCCTCCTC[ag]AATTTTCTTTTCTGTCTA CTTTGTAAGGTATTTTTTTTGTCTTTTTTTTCCGTATCCAAGA
56767	I		S	AGCAGACATCACACAAATATGTTAAGTTACAGAATGCGTAA
56767	P	A	S	CGCGCCGAGGTCATATTTCCCCAATTTACCTATY
56767	P	G	S	ATGACGTGGCAGACCCATATTTCCCCAATTTACCTY
56767	T	A	S	TCTCATAGGTAAATTGGGGAAATATGATACGCATTCTGTAACTTAACATATTTGTGTGATGTCTGCTAA
56767	T	G	S	TCTCATAGGTAAATTGGGGAAATATGGTACGCATTCTGTAACTTAACATATTTGTGTGATGTCTGCTAA
56767	IS	[ag]		CTGATGAATCTCTTGATTTTGTTTAGGATGATAGTCTCATAGGTAAATTGGGGAAATATG[ag]TACGCATTCTGTAACTT AACATATTTGTGTGATGTCTGCTAAGAAAATGCACACTCATGC
56769	I		A	TCAAGTCTAAGGCAGGAAAAATGCAGTTCAAAGGT
56769	P	A	A	CGCGCCGAGGACATCACGCAGGAAGAY
56769	P	C	A	ATGACGTGGCAGACCCATCACGCAGGAAGAY
56769	T	A	A	TAATTCTTCCTGCGTGATGTCCTTTGAACTGCATTTTTCCTGCCTTAGACTTGAAT
56769	T	C	A	TAATTCTTCCTGCGTGATGGCCTTTGAACTGCATTTTTCCTGCCTTAGACTTGAAT
56769	IS	[ac]		AAGGAAGAGTAAATACTTCAAGAAATTCAAGTCTAAGGCAGGAAAAATGCAGTTCAAAGG[ac]CATCACGCAGGAAGAA TTATCTCTTACCCAAAGAAAGGTCAGTCATTTTGTTCTATTGAA
56772	I		S	GCTACCCTTTGAGTGCTGCAAGGATCATGCTT
56772	P	C	S	ATGACGTGGCAGACGTCTTTAGGAAGCAGAGACY
56772	P	G	S	CGCGCCGAGGCTCTTTAGGAAGCAGAGACY
56772	T	C	S	TTTTGTCTCTGCTTCCTAAAGACAGCATGATCCTTGCAGCACTCAAAGGGTAGCAA
56772	T	G	S	TTTTGTCTCTGCTTCCTAAAGAGACATGATCCTTGCAGCACTCAAAGGGTAGCAA
56772	IS	[cg]		AACGTAGAGAAGATACATGTCCTTTCAAGTCTTGATCATTTTGTCTCTGCTTCCTAAAGA[cg]AGCATGATCCTTGCAGC ACTCAAAGGGTAGCAAATCCAATGAACTGTTCATTATTGAATT
56776	I		A	AGATGGCAGGAAGTTGGGAAGCAGGCAA
56776	P	C	A	ATGACGTGGCAGACCTGAAAATGACACATACTATAAGTGY
56776	P	T	A	CGCGCCGAGGTTGAAAATGACACATACTATAAGTGY
56776	T	C	A	ACTCCACTTATAGTATGTGTCATTTTCAGTGCCTGCTTCCCAACTTCCTGCCATCTGC
56776	T	T	A	ACTCCACTTATAGTATGTGTCATTTTCAATGCCTGCTTCCCAACTTCCTGCCATCTGC
56776	IS	[ct]		GGTTCTGTGTGAGGAAAAACACACATGAAAGGCAGATGGCAGGAAGTTGGGAAGCAGGCA[ct]TGAAAATGACACATA CTATAAGTGGAGTGAAGGGGAAAGGAGGTGGGAACAGGTGATTTA
56777	I		A	TCAGGAATAAAATAGAAAAGGGTACACACCACAGTAAAAACCT
56777	P	A	A	CGCGCCGAGGATGAAAGCACCCAATACATAAY
56777	P	G	A	ATGACGTGGCAGACGTGAAAGCACCCAATACAY
56777	T	A	A	AACTTTATGTATTGGGTGCTTTCATGGTTTTTACTGTGGTGTGTACCCTTTTCTATTTTATTCCTGATA
56777	T	G	A	AACTTTATGTATTGGGTGCTTTCACGGTTTTTACTGTGGTGTGTACCCTTTTCTATTTTATTCCTGATA
56777	IS	[ag]		aaatgatgcaaaacatatcaggaataaaatagaaaagggtacacaccacagtaaaaacc[ag]tgaaagcaccaatactataaagtttgtacagatccgtggcttctttttcctctca gaaaa
56778	I		A	CCCAGTGATGAACACTTACCAGGTGTTAAATGACTTAAA
56778	P	C	A	ATGACGTGGCAGACCTCTCCCAATAATCCAAAATATAAGY
56778	P	T	A	CGCGCCGAGGTTCTCCCAATAATCCAAAATATAAGY
56778	T	C	A	CATTCTTATATTTTGGATTATTGGGAGAGTTAAGTCATTTAACACCTGGTAAGTGTTCATCACTGGGAC
56778	T	T	A	CATTCTTATATTTTGGATTATTGGGAGAATTAAGTCATTTAACACCTGGTAAGTGTTCATCACTGGGAC
56778	IS	[ct]		ATATATTGAGCATTTATAATGTCCCAGTGATGAACACTTACCAGGTGTTAAATGACTTAA[ct]TCTCCCAATAATCCAAAA TATAAGAATGATTGTCATAAATAAGGACAATGATACATAGAT
56779	I		A	CATCGACATTATGGGCCGTTCTTTCTCTGATATTTCA
56779	P	C	A	ATGACGTGGCAGACCCTGTTTTACCAAGTCCCY
56779	P	T	A	CGCGCCGAGGTCTGTTTTACCAAGTCCCTY
56779	T	C	A	ATTAAGGGACTTGGTAAAACAGGGAAATATCAGAGAAAGAACGGCCCATAATGTCGATGTT
56779	T	T	A	ATTAAGGGACTTGGTAAAACAGAGAAATATCAGAGAAAGAACGGCCCATAATGTCGATGTT
56779	IS	[ct]		gatgtaactaaatcaaaacaaaaacatcgacattatgggccgttctttctctgatatttc[ct]ctgtttaccaagtcccttaatggaaaagcacatcaatatgggccattaaatgaaaac a
56781	I		A	CTGCTCATGCCTAATAATGACACAGAGCTCCCAGAA
56781	P	C	A	ATGACGTGGCAGACCGGCACTGCTAAATTATTTAGY
56781	P	T	A	CGCGCCGAGGTGGCACTGCTAAATTATTTAGY
56781	T	C	A	AGACCTAAATAATTTAGCAGTGCCGTCTGGGAGCTCTGTGTCATTATTAGGCATGAGCAGAT
56781	T	T	A	AGACCTAAATAATTTAGCAGTGCCATCTGGGAGCTCTGTGTCATTATTAGGCATGAGCAGAT
56781	IS	[ct]		AATGCAGTTCACACACTGATGTCATCTGCTCATGCCTAATAATGACACAGAGCTCCCAGA[ct]GGCACTGCTAAATTATT TAGGTCTTCTTTTTAGTGATAAAAAAATCCTGGGTAATGTTTG
56782	I		A	GGCTGGATATTTAAGAAAAAGTCATACCTTTGGGAAGACAGGATTTGT
56782	P	A	A	CGCGCCGAGGAGCTGATGTATCAGTTTCCY
56782	P	G	A	ATGACGTGGCAGACGGCTGATGTATCAGTTTCCY
56782	T	A	A	AGTAGGAAACTGATACATCAGCTCAAATCCTGTCTTCCCAAAGGTATGACTTTTTCTTAAATATCCAGCCCC
56782	T	G	A	AGTAGGAAACTGATACATCAGCCCAAATCCTGTCTTCCCAAAGGTATGACTTTTTCTTAAATATCCAGCCCC
56782	IS	[ag]		CACTGCGGGGAGGGGCTGGATATTTAAGAAAAAGTCATACCTTTGGGAAGACAGGATTTG[ag]GCTGATGTATCAGTT TCCTACTGCTGCTATAACAAATTACCCCAAACACAGCAGCTTAAA
56783	I		S	TGGGCTCCATAGGGTTCTTCTGAACCTGAACCT
56783	P	C	S	ATGACGTGGCAGACGCAACAATTCTAGGAGGTCY
56783	P	T	S	CGCGCCGAGGACAACAATTCTAGGAGGTCTY
56783	T	C	S	AAGCAGACCTCCTAGAATTGTTGCGGTTCAGGTTCAGAAGAACCCTATGGAGCCCATC
56783	T	T	S	AAGCAGACCTCCTAGAATTGTTGTGGTTCAGGTTCAGAAGAACCCTATGGAGCCCATC
56783	IS	[ct]		GAGAACCTTGGGTGAGAGCCTTTCTTCCAGCTAAGCCAAGCAGACCTCCTAGAATTGTTG[ct]GGTTCAGGTTCAGAAG AACCCTATGGAGCCCATCCTGTGCCGTCCCCTCCTCTCAGACAG
56785	I		S	GCAAAGTAGAATGACTGATGCCATAAAGAATAATGAAACTATCAGAATCT
56785	P	C	S	ATGACGTGGCAGACGGGTAGGCATAGTTGGAY
56785	P	T	S	CGCGCCGAGGAGGTAGGCATAGTTGGAGY
56785	T	C	S	CCCTCTCCAACTATGCCTACCCGATTCTGATAGTTTCATTATTCTTTATGGCATCAGTCATTCTACTTTGCAC

FIGURE 129D

56785	T	T	S	CCCTCTCCAACTATGCCTACCTGATTCTGATAGTTTCATTATTCTTTATGGCATCAGTCATTCTACTTTGCAC
				ATATTAAAATAAGAAAAATTCATTTCTAAGAAGAACATCCCCTCTCCAACTATGCCTACC[ct]GATTCTGATAGTTTCATT
56785	IS	[ct]		ATTCTTTATGGCATCAGTCATTCTACTTTGCACTCTTTTTTT
56786	I		S	TTGGGGCTGACTGATGACCTGGAAAAGTTTTCCAATTATTTAATACAAAATAT
56786	P	C	S	ATGACGTGGCAGACGGTCGTGAGTTTCCCTY
56786	P	T	S	CGCGCCGAGGAGTCGTGAGTTTCCCTTY
56786	T	C	S	CACAAAGGGAAACTCACGACCTATTTTGTATTAAATAATTGGAAAACTTTTCCAGGTCATCAGTCAGCCCCAAAG
56786	T	T	S	CACAAAGGGAAACTCACGACTTATTTTGTATTAAATAATTGGAAAACTTTTCCAGGTCATCAGTCAGCCCCAAAG
				CATCTTCTTTGCTTACTGTCTACTCTGGAACAAGAATATGCACAAAGGGAAACTCACGAC[ct]TATTTTGTATTAAATAAT
56786	IS	[ct]		TGGAAAACTTTTCCAGGTCATCAGTCAGCCCCAAAGAGAACA
56790	I		S	TGTTGGCCAGTTGGAGCCAAAATGCATCCC
56790	P	A	S	CGCGCCGAGGTTTTCCCTCTCAACTGCY
56790	P	T	S	ATGACGTGGCAGACATTTCCCTCTCAACTGCTY
56790	T	A	S	GTGAAGCAGTTGAGAGGGAAAAGGATGCATTTTGGCTCCAACTGGCCAACACT
56790	T	T	S	GTGAAGCAGTTGAGAGGGAAATGGATGCATTTTGGCTCCAACTGGCCAACACT
				AGATAGAAGGTGTTCAATAAACATGTCTTGAATGAATGAGTGAAGCAGTTGAGAGGGAAA[at]GGATGCATTTTGGCTC
56790	IS	[at]		CAACTGGCCAACACTGAGCCCAGGTGAGCCACACGTTGGGTATG
56791	I		A	ACTGAAGCACAGGGTACTTAAGAGTCTGTCCCAAGTTTT
56791	P	A	A	CGCGCCGAGGACACAGCTAGTCAGTGGY
56791	P	C	A	ATGACGTGGCAGACCCACAGCTAGTCAGTGGY
56791	T	A	A	TCTCCCACTGACTAGCTGTGTAAACTTGGGACAGACTCTTAAGTACCCTGTGCTTCAGTGT
56791	T	C	A	TCTCCCACTGACTAGCTGTGGAAACTTGGGACAGACTCTTAAGTACCCTGTGCTTCAGTGT
				CCCGCACGCACCTGACAAGGACACTGAAGCACAGGGTACTTAAGAGTCTGTCCCAAGTTT[ac]CACAGCTAGTCAGTG
56791	IS	[ac]		GGAGAGCTGAGATTGACACCCACGTCAGACACCACATGTGTTCTC
56793	I		S	AAGCTAGCAGGACACTTTGACCTGGTGCCT
56793	P	C	S	ATGACGTGGCAGACGTCCACCTTCCAAACACY
56793	P	T	S	CGCGCCGAGGATCCACCTTCCAAACACY
56793	T	C	S	GAGTGTGTTTGGAAGGTGGACGGCACCAGGTCAAAGTGTCCTGCTAGCTTCT
56793	T	T	S	GAGTGTGTTTGGAAGGTGGATGGCACCAGGTCAAAGTGTCCTGCTAGCTTCT
				tcagggttaaaactatatttctgtctatatgaaatagttgagtgtgtttgggaggtgga[ct]ggcaccaggtcaaagtgtcctgctagcttctcctaaactctaaatagcattgtcctagca
56793	IS	[ct]		
56795	I		A	AGTGCTTTCCATGTACCAGTCACTGTTTTCAGGCTTTACT
56795	P	A	A	CGCGCCGAGGACCTCCAAGCTTTCTTAAACY
56795	P	G	A	ATGACGTGGCAGACGCCTCCAAGCTTTCTTAAY
56795	T	A	A	TGAGGTTTAAGAAAGCTTGGAGGTGTAAAGCCTGAAAACAGTGACTGGTACATGGAAAGCACTTG
56795	T	G	A	TGAGGTTTAAGAAAGCTTGGAGGCGTAAAGCCTGAAAACAGTGACTGGTACATGGAAAGCACTTG
				ATCTAAAGGTGCCATTTGTCAAGTGCTTTCCATGTACCAGTCACTGTTTTCAGGCTTTAC[ag]CCTCCAAGCTTTCTTAA
56795	IS	[ag]		ACCTCACCACAACACAATGAGATAGGGTTATTATTATTCCTGT
56798	I		A	TCTTCCTTTTTCCATCCTTCCCTCGCCTCATTCTTCA
56798	P	C	A	ATGACGTGGCAGACCAACAGCCTACCTTATGATCY
56798	P	T	A	CGCGCCGAGGTAACAGCCTACCTTATGATCY
56798	T	C	A	AAAGGATCATAAGGTAGGCTGTTGGAAGAATGAGGCGAGGGAAGGATGGAAAAAGGAAGATG
56798	T	T	A	AAAGGATCATAAGGTAGGCTGTTAGAAGAATGAGGCGAGGGAAGGATGGAAAAAGGAAGATG
				gtctaagcatccaaacttcaccatcttcctttccatcctcccicgcctcatctte[ct]aacagcctaccttatgatccttttttagtaatggcaaataaaactgaggatatttaaaac
56798	IS	[ct]		
56799	I		A	CAGTGGACCACATAATGTGTCCATAGTTAGAATCACATAAAATT
56799	P	A	A	CGCGCCGAGGAAGATTAACCATTCTTCCAGGY
56799	P	G	A	ATGACGTGGCAGACGAGATTAACCATTCTTCCAGGY
56799	T	A	A	GCTTCCTGGAAGAATGGTTAATCTTATTTTATGTGATTCTAACTATGGACACATTATGTGGTCCACTGGG
56799	T	G	A	GCTTCCTGGAAGAATGGTTAATCTCATTTTATGTGATTCTAACTATGGACACATTATGTGGTCCACTGGG
				ctcctcgtaaatatcccagtggaccacatatatgtgtccatagttagaatcacataaaat[ag]agattaaccattcttccaggaagcttgttttcatcacagaaccattggagaatcagaa
56799	IS	[ag]		ag
56800	I		S	GTTCAAGTCAGGCAGAGAGTACAAGTTTAGAACATTATAATAATTTATATTTTTGACT
56800	P	C	S	ATGACGTGGCAGACGGGATTCAAACTGCAGGY
56800	P	T	S	CGCGCCGAGGAGGATTCAAACTGCAGGY
56800	T	C	S	AGTTCCTGCAGTTTGAATCCCGTCAAAAATATAAATTATTATAATGTTCTAAACTTGTACTCTCTGCCTGACTTGAACTG
56800	T	T	S	AGTTCCTGCAGTTTGAATCCTGTCAAAAATATAAATTATTATAATGTTCTAAACTTGTACTCTCTGCCTGACTTGAACTG
				GACCAGGAACAGAAGAAATCATCATATCTGACTTTCTCAGAGTTCCTGCAGTTTGAATCC[ct]GTCAAAAATATAAATTAT
56800	IS	[ct]		TATAATGTTCTAAACTTGTACTCTCTGCCTGACTTGAACTGA
56801	I		S	GGGTCTCTTACTCACCTGTTGTCACATTTATGCTCAAAATGTCT
56801	P	C	S	ATGACGTGGCAGACGGTAATTTGGTCAGTGTTATTCY
56801	P	T	S	CGCGCCGAGGAGTAATTTGGTCAGTGTTATTCY
56801	T	C	S	ATGGGAATAACACTGACCAAATTACCGACATTTTGAGCATAAATGTGACAACAGGTGAGTAAGAGACCCAT
56801	T	T	S	ATGGGAATAACACTGACCAAATTACTGACATTTTGAGCATAAATGTGACAACAGGTGAGTAAGAGACCCAT
				caaagcctacttgaacagcctcagtttccaatcatgggaataacactgaccaaattac[ct]gacattttgagcataaatgtgacaacaggtgagtaagagacccattgcttcagaat
56801	IS	[ct]		aaat
56802	I		A	GCTTATCAGCAATGTCCAATGTGAGAGTTGACCCTATGTT
56802	P	A	A	CGCGCCGAGGAATCGATTGATTAAATGTCTCATTTY
56802	P	C	A	ATGACGTGGCAGACCATCGATTGATTAAATGTCTCATTY
56802	T	A	A	TTTCAAATGAGACATTTAATCAATCGATTACATAGGGTCAACTCTCACATTGGACATTGCTGATAAGCCT
56802	T	C	A	TTTCAAATGAGACATTTAATCAATCGATGACATAGGGTCAACTCTCACATTGGACATTGCTGATAAGCCT
				TGGTCATGACCCCTACCTCAGGCTTATCAGCAATGTCCAATGTGAGAGTTGACCCTATGT[ac]ATCGATTGATTAAATG
56802	IS	[ac]		TCTCATTTGAAAGCTAGGAAGAAAATAAATTAAATTGGTATTTA
56803	I		S	GTCTGTTTGGCTGGGGAGAAGCATGAAAATAT
56803	P	C	S	ATGACGTGGCAGACGTCTCAGAGCTGTAATTCTCY
56803	P	T	S	CGCGCCGAGGATCTCAGAGCTGTAATTCTCY
56803	T	C	S	ATGCGAGAATTACAGCTCTGAGACTATTTTCATGCTTCTCCCCAGCCAAACAGACTG
56803	T	T	S	ATGCGAGAATTACAGCTCTGAGATTATTTTCATGCTTCTCCCCAGCCAAACAGACTG
				CTGTTGAGACCACTGAGTTGCAACAGCTCTAATAAGGATGCGAGAATTACAGCTCTGAGA[ct]TATTTTCATGCTTCTCC
56803	IS	[ct]		CCAGCCAAACAGACTGAATTAAAGGACTGTTGCTTTTTACCTT
56804	I		A	GCTGTAGAAGTCTTGAACAATAGAATAAACAAAGAAAACCTAATTGTCATTTAT
56804	P	A	A	CGCGCCGAGGAGAAACATTTCACACCACAY
56804	P	G	A	ATGACGTGGCAGACGGAAACATTTCACACCACAY
56804	T	A	A	CTGCTGTGGTGTGAAATGTTTCTTAAATGACAATTAGGTTTTCTTTGTTTATTCTATTGTTCAAGACTTCTACAGCTA
56804	T	G	A	CTGCTGTGGTGTGAAATGTTTCCTAAATGACAATTAGGTTTTCTTTGTTTATTCTATTGTTCAAGACTTCTACAGCTA

FIGURE 129D

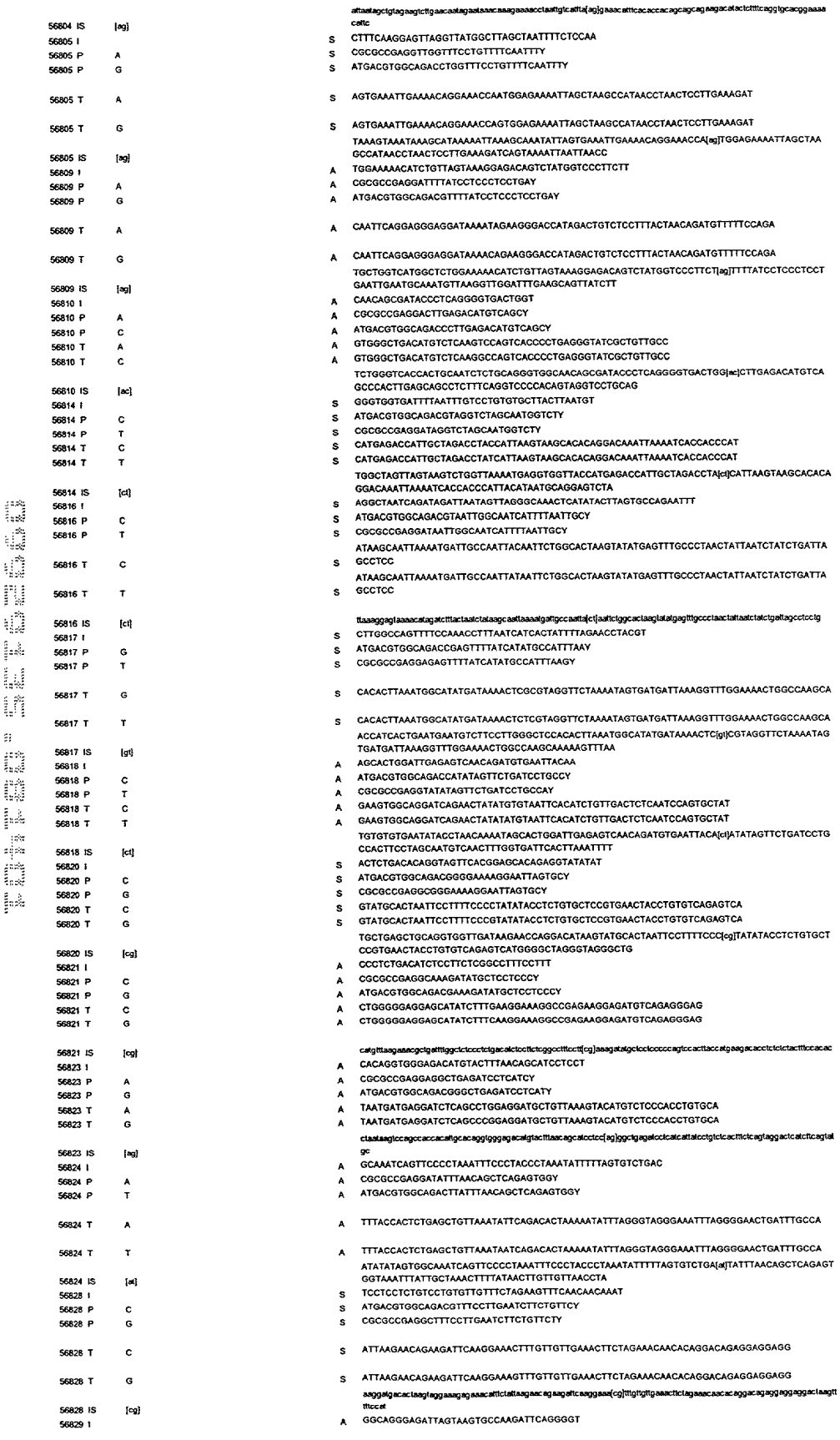
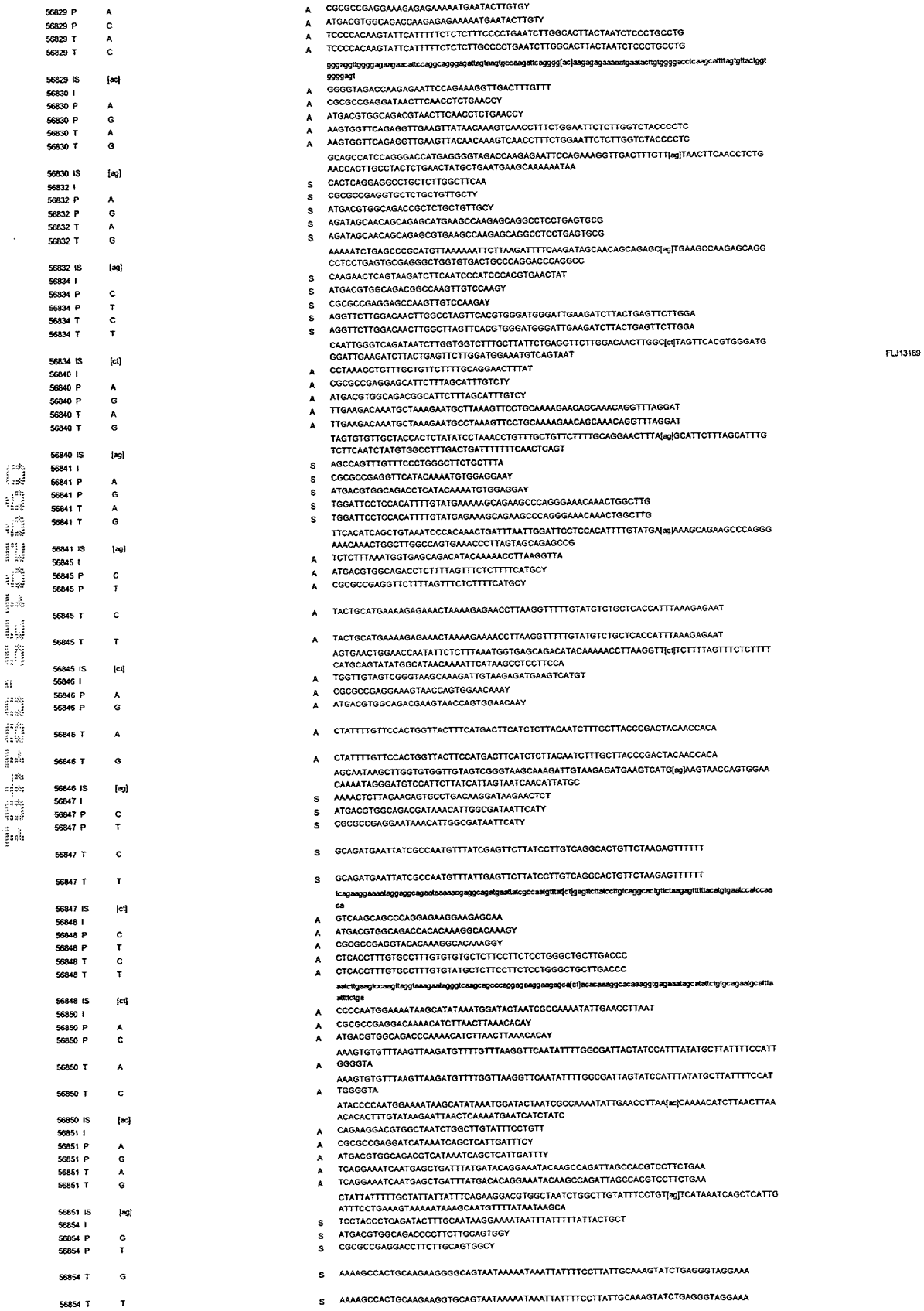
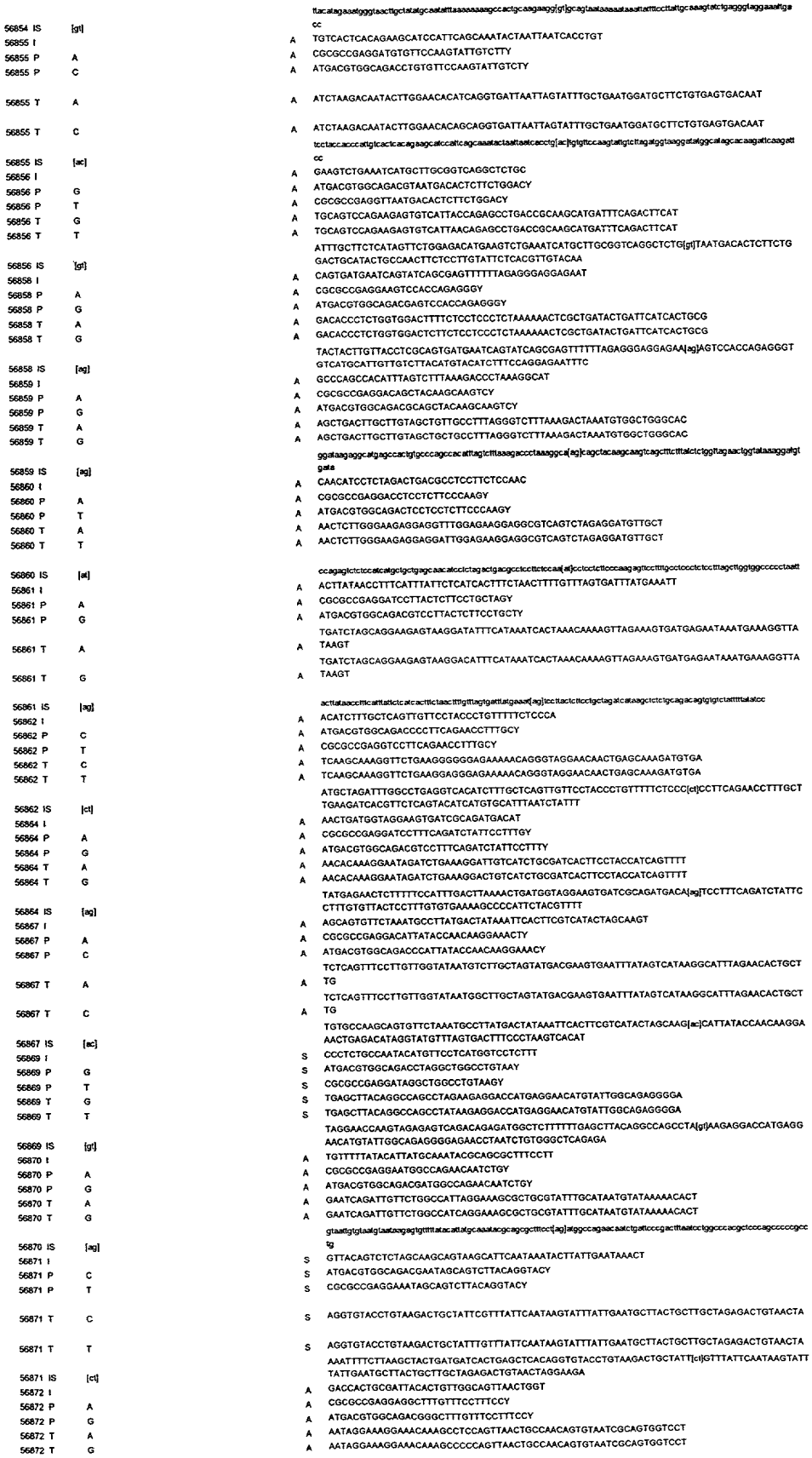

attaatagctgtagaagtcttgaacaatagaataaacaaagaaaacctaattgtcattta[ag]gaaacatttcacaccacagcagcagaagacatactctttcaggtgcacggaaaa
56804 IS [ag] catte
56805 I S CTTTCAAGGAGTTAGGTTATGGCTTAGCTAATTTTCTCCAA
56805 P A S CGCGCCGAGGTTGGTTTCCTGTTTTCAATTTY
56805 P G S ATGACGTGGCAGACCTGGTTTCCTGTTTTCAATTTY
56805 T A S AGTGAAATTGAAAACAGGAAACCAATGGAGAAAATTAGCTAAGCCATAACCTAACTCCTTGAAAGAT
56805 T G S AGTGAAATTGAAAACAGGAAACCAGTGGAGAAAATTAGCTAAGCCATAACCTAACTCCTTGAAAGAT
56805 IS [ag] TAAAGTAAATAAAGCATAAAAATTAAAGCAAATATTAGTGAAATTGAAAACAGGAAACCA[ag]TGGAGAAAATTAGCTAA GCCATAACCTAACTCCTTGAAAGATCAGTAAAATTAATTAACC
56809 I A TGGAAAAACATCTGTTAGTAAAGGAGACAGTCTATGGTCCCTTCTT
56809 P A A CGCGCCGAGGATTTTATCCTCCCTCCTGAY
56809 P G A ATGACGTGGCAGACGTTTTATCCTCCCTCCTGAY
56809 T A A CAATTCAGGAGGGAGGATAAAATAGAAGGGACCATAGACTGTCTCCTTTACTAACAGATGTTTTTCCAGA
56809 T G A CAATTCAGGAGGGAGGATAAAACAGAAGGGACCATAGACTGTCTCCTTTACTAACAGATGTTTTTCCAGA
56809 IS [ag] TGCTGGTCATGGCTCTGGAAAAACATCTGTTAGTAAAGGAGACAGTCTATGGTCCCTTCT[ag]TTTTATCCTCCCTCCT GAATTGAATGCAAATGTTAAGGTTGGATTTGAAGCAGTTATCTT
56810 I A CAACAGCGATACCCTCAGGGGTGACTGGT
56810 P A A CGCGCCGAGGACTTGAGACATGTCAGCY
56810 P C A ATGACGTGGCAGACCCTTGAGACATGTCAGCY
56810 T A A GTGGGCTGACATGTCTCAAGTCCAGTCACCCCTGAGGGTATCGCTGTTGCC
56810 T C A GTGGGCTGACATGTCTCAAGGCCAGTCACCCCTGAGGGTATCGCTGTTGCC
56810 IS [ac] TCTGGGTCACCACTGCAATCTCTGCAGGGTGGCAACAGCGATACCCTCAGGGGTGACTGG[ac]CTTGAGACATGTCA GCCCACTTGAGCAGCCTCTTTCAGGTCCCCACAGTAGGTCCTGCAG
56814 I S GGGTGGTGATTTTAATTTGTCCTGTGTGCTTACTTAATGT
56814 P C S ATGACGTGGCAGACGTAGGTCTAGCAATGGTCTY
56814 P T S CGCGCCGAGGATAGGTCTAGCAATGGTCTY
56814 T C S CATGAGACCATTGCTAGACCTACCATTAAGTAAGCACACAGGACAAATTAAAATCACCACCCAT
56814 T T S CATGAGACCATTGCTAGACCTATCATTAAGTAAGCACACAGGACAAATTAAAATCACCACCCAT
56814 IS [ct] TGGCTAGTTAGTAAGTCTGGTTAAAATGAGGTGGTTACCATGAGACCATTGCTAGACCTA[ct]CATTAAGTAAGCACACA GGACAAATTAAAATCACCACCCATTACATAATGCAGGAGTCTA
56816 I S AGGCTAATCAGATAGATTAATAGTTAGGGCAAACTCATATACTTAGTGCCAGAATTT
56816 P C S ATGACGTGGCAGACGTAATTGGCAATCATTTTAATTGCY
56816 P T S CGCGCCGAGGATAATTGGCAATCATTTTAATTGCY
56816 T C S ATAAGCAATTAAAATGATTGCCAATTACAATTCTGGCACTAAGTATATGAGTTTGCCCTAACTATTAATCTATCTGATTA GCCTCC
56816 T T S ATAAGCAATTAAAATGATTGCCAATTATAATTCTGGCACTAAGTATATGAGTTTGCCCTAACTATTAATCTATCTGATTA GCCTCC
56816 IS [ct] ttaaaggagtaaaacatagatctttactaatctataagcaattaaaatgattgccaatta[ct]aatctggcactaagtatatgagtttgccctaactattaatctatctgattagcctcctg
56817 I S CTTGGCCAGTTTTCCAAACCTTTAATCATCACTATTTTAGAACCTACGT
56817 P G S ATGACGTGGCAGACCGAGTTTTATCATATGCCATTTAAY
56817 P T S CGCGCCGAGGAGAGTTTTATCATATGCCATTTAAGY
56817 T G S CACACTTAAATGGCATATGATAAAACTCGCGTAGGTTCTAAAATAGTGATGATTAAAGGTTTGGAAAACTGGCCAAGCA
56817 T T S CACACTTAAATGGCATATGATAAAACTCTCGTAGGTTCTAAAATAGTGATGATTAAAGGTTTGGAAAACTGGCCAAGCA
56817 IS [gt] ACCATCACTGAATGAATGTCTTCCTTGGGCTCCACACTTAAATGGCATATGATAAAACTC[gt]CGTAGGTTCTAAAATAG TGATGATTAAAGGTTTGGAAAACTGGCCAAGCAAAAAGTTTAA
56818 I A AGCACTGGATTGAGAGTCAACAGATGTGAATTACAA
56818 P C A ATGACGTGGCAGACCATATAGTTCTGATCCTGCCY
56818 P T A CGCGCCGAGGTATATAGTTCTGATCCTGCCAY
56818 T C A GAAGTGGCAGGATCAGAACTATATGTGTAATTCACATCTGTTGACTCTCAATCCAGTGCTAT
56818 T T A GAAGTGGCAGGATCAGAACTATATATGTAATTCACATCTGTTGACTCTCAATCCAGTGCTAT
56818 IS [ct] TGTGTGTGAATATACCTAACAAAATAGCACTGGATTGAGAGTCAACAGATGTGAATTACA[ct]ATATAGTTCTGATCCTG CCACTTCCTAGCAATGTCAACTTTGGTGATTCACTTAAATTTT
56820 I S ACTCTGACACAGGTAGTTCACGGAGCACAGAGGTATATAT
56820 P C S ATGACGTGGCAGACGGGGAAAAGGAATTAGTGCY
56820 P G S CGCGCCGAGGCGGGAAAAGGAATTAGTGCY
56820 T C S GTATGCACTAATTCCTTTTCCCCTATATACCTCTGTGCTCCGTGAACTACCTGTGTCAGAGTCA
56820 T G S GTATGCACTAATTCCTTTTCCCGTATATACCTCTGTGCTCCGTGAACTACCTGTGTCAGAGTCA
56820 IS [cg] TGCTGAGCTGCAGGTGGTTGATAAGAACCAGGACATAAGTATGCACTAATTCCTTTTCCC[cg]TATATACCTCTGTGCT CCGTGAACTACCTGTGTCAGAGTCATGGGGCTAGGGTAGGGCTG
56821 I A CCCTCTGACATCTCCTTCTCGGCCTTTCCTTT
56821 P C A CGCGCCGAGGCAAAGATATGCTCCTCCCY
56821 P G A ATGACGTGGCAGACGAAAGATATGCTCCTCCCY
56821 T C A CTGGGGGAGGAGCATATCTTTGAAGGAAAGGCCGAGAAGGAGATGTCAGAGGGAG
56821 T G A CTGGGGGAGGAGCATATCTTTCAAGGAAAGGCCGAGAAGGAGATGTCAGAGGGAG
56821 IS [cg] catgttaagaaacgctgatttggctctccctctgacatctcctctcggccttcctt[cg]aaagatatgctcctccccagtccacttaccatgaagacacctctctctacttttccacac
56823 I A CACAGGTGGGAGACATGTACTTTAACAGCATCCTCCT
56823 P A A CGCGCCGAGGAGGCTGAGATCCTCATCY
56823 P G A ATGACGTGGCAGACGGGCTGAGATCCTCATY
56823 T A A TAATGATGAGGATCTCAGCCTGGAGGATGCTGTTAAAGTACATGTCTCCCACCTGTGCA
56823 T G A TAATGATGAGGATCTCAGCCCGGAGGATGCTGTTAAAGTACATGTCTCCCACCTGTGCA
56823 IS [ag] ctaataagtccagccaccacatgcacaggtgggagcatgtacttaacagcatcctcc[ag]ggctgagatcctcatcattatcctgtctcactttctcagtaggactcatctttcagtatgc
56824 I A GCAAATCAGTTCCCCTAAATTTCCCTACCCTAAATATTTTTAGTGTCTGAC
56824 P A A CGCGCCGAGGATATTTAACAGCTCAGAGTGGY
56824 P T A ATGACGTGGCAGACTTATTTAACAGCTCAGAGTGGY
56824 T A A TTTACCACTCTGAGCTGTTAAATATTCAGACACTAAAAATATTTAGGGTAGGGAAATTTAGGGGAACTGATTTGCCA
56824 T T A TTTACCACTCTGAGCTGTTAAATAATCAGACACTAAAAATATTTAGGGTAGGGAAATTTAGGGGAACTGATTTGCCA
56824 IS [at] ATATATAGTGGCAAATCAGTTCCCCTAAATTTCCCTACCCTAAATATTTTTAGTGTCTGA[at]TATTTAACAGCTCAGAGT GGTAAATTTATTGCTAAACTTTTATAACTTGTTGTTAACCTA
56828 I S TCCTCCTCTGTCCTGTGTTGTTTCTAGAAGTTTCAACAACAAAT
56828 P C S ATGACGTGGCAGACGTTTCCTTGAATCTTCTGTTCY
56828 P G S CGCGCCGAGGCTTTCCTTGAATCTTCTGTTCTY
56828 T C S ATTAAGAACAGAAGATTCAAGGAAACTTTGTTGTTGAAACTTCTAGAAACAACACAGGACAGAGGAGGAGG
56828 T G S ATTAAGAACAGAAGATTCAAGGAAAGTTTGTTGTTGAAACTTCTAGAAACAACACAGGACAGAGGAGGAGG
56828 IS [cg] aaggatgacactaagtaggaaagagaaacatttctattaagaacagaagattcaaggaaa[cg]ttgttgttgaaacttctagaaacaacacaggacagaggaggaggactaagtttttcct
56829 I A GGCAGGGAGATTAGTAAGTGCCAAGATTCAGGGGT

FIGURE 129D



FLJ13189

FIGURE 129D



Confidential Treatment Requested Pursuant to 17 CFR 200.83

FIGURE 129D

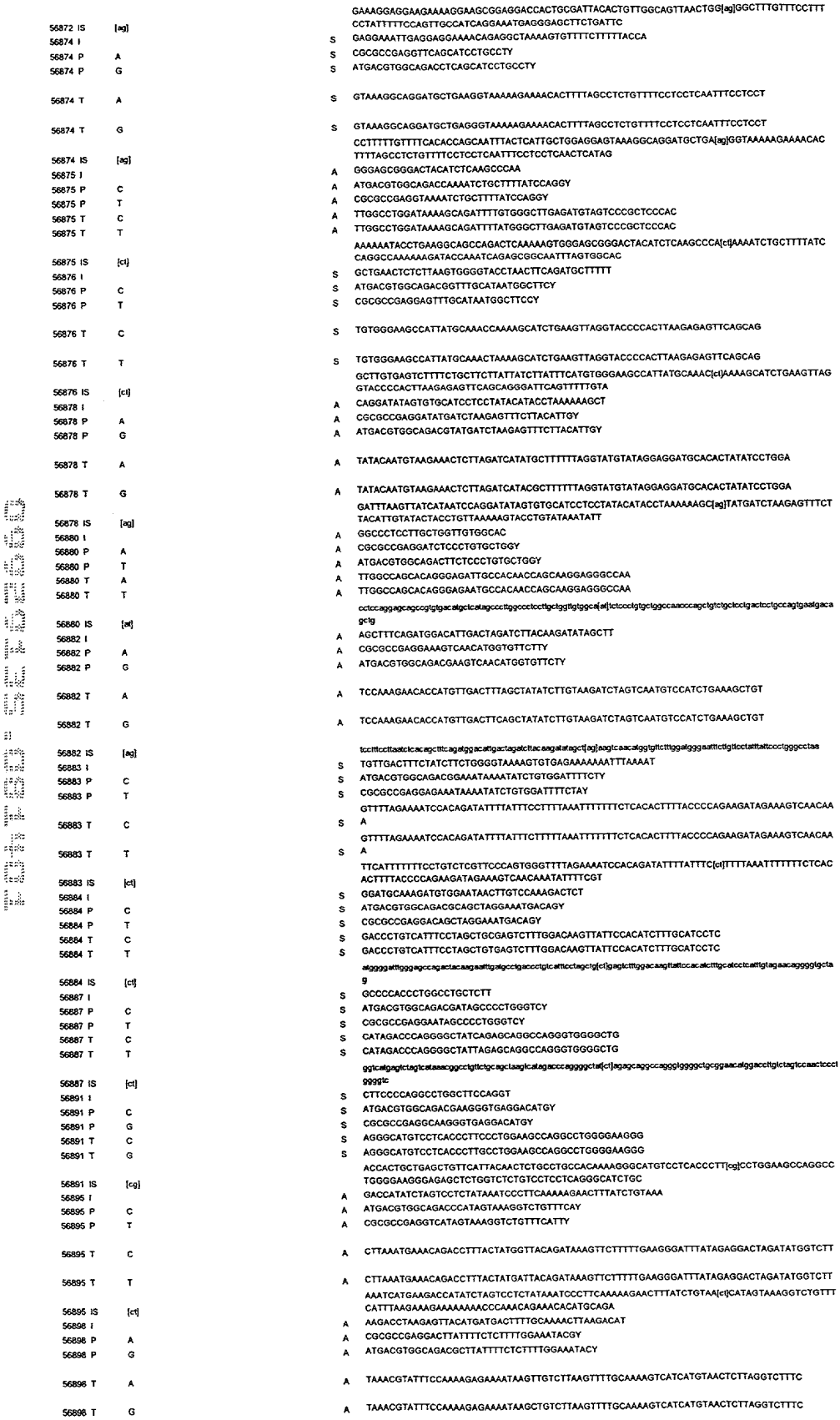
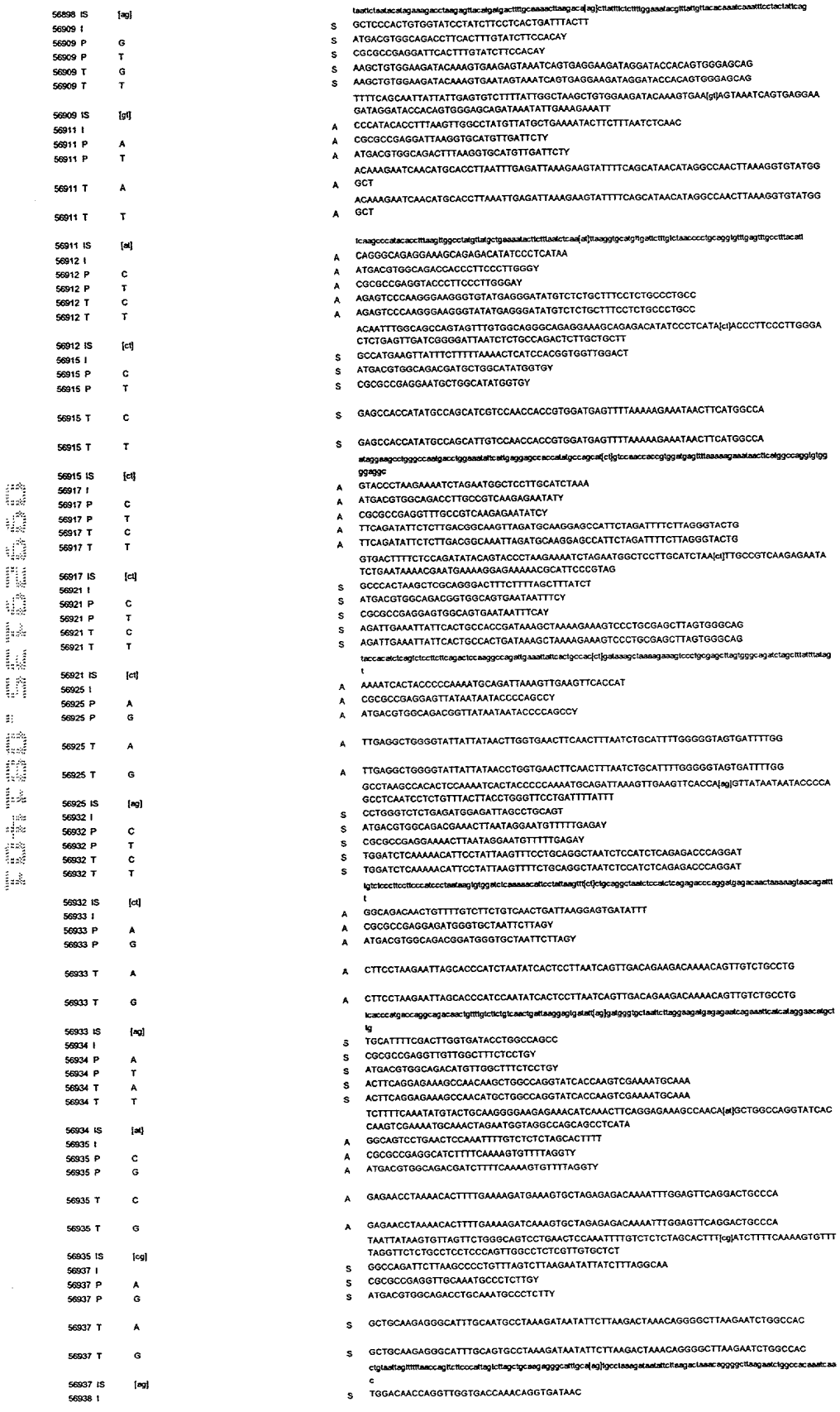

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56875 P T A CGCGCCGAGGTAAAATCTGCTTTTATCCAGGY
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56878 P G A ATGACGTGGCAGACGTATGATCTAAGAGTTTCTTACATTGY
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56878 T G A TATACAATGTAAGAAACTCTTAGATCATACGCTTTTTTAGGTATGTATAGGAGGATGCACACTATATCCTGGA
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56880 P A A CGCGCCGAGGATCTCCCTGTGCTGGY
56880 P T A ATGACGTGGCAGACTTCTCCCTGTGCTGGY
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56891 P G S CGCGCCGAGGCAAGGGTGAGGACATGY
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56891 T G S AGGGCATGTCCTCACCCTTGCCTGGAAGCCAGGCCTGGGGAAGGG
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56895 P C A ATGACGTGGCAGACCCATAGTAAAGGTCTGTTTCAY
56895 P T A CGCGCCGAGGTCATAGTAAAGGTCTGTTTCATTY
56895 T C A CTTAAATGAAACAGACCTTTACTATGGTTACAGATAAAGTTCTTTTTGAAGGGATTTATAGAGGACTAGATATGGTCTT
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56898 P G A ATGACGTGGCAGACGCTTATTTTCTCTTTTGGAAATACY
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FIGURE 129D



Confidential Information

FIGURE 129D

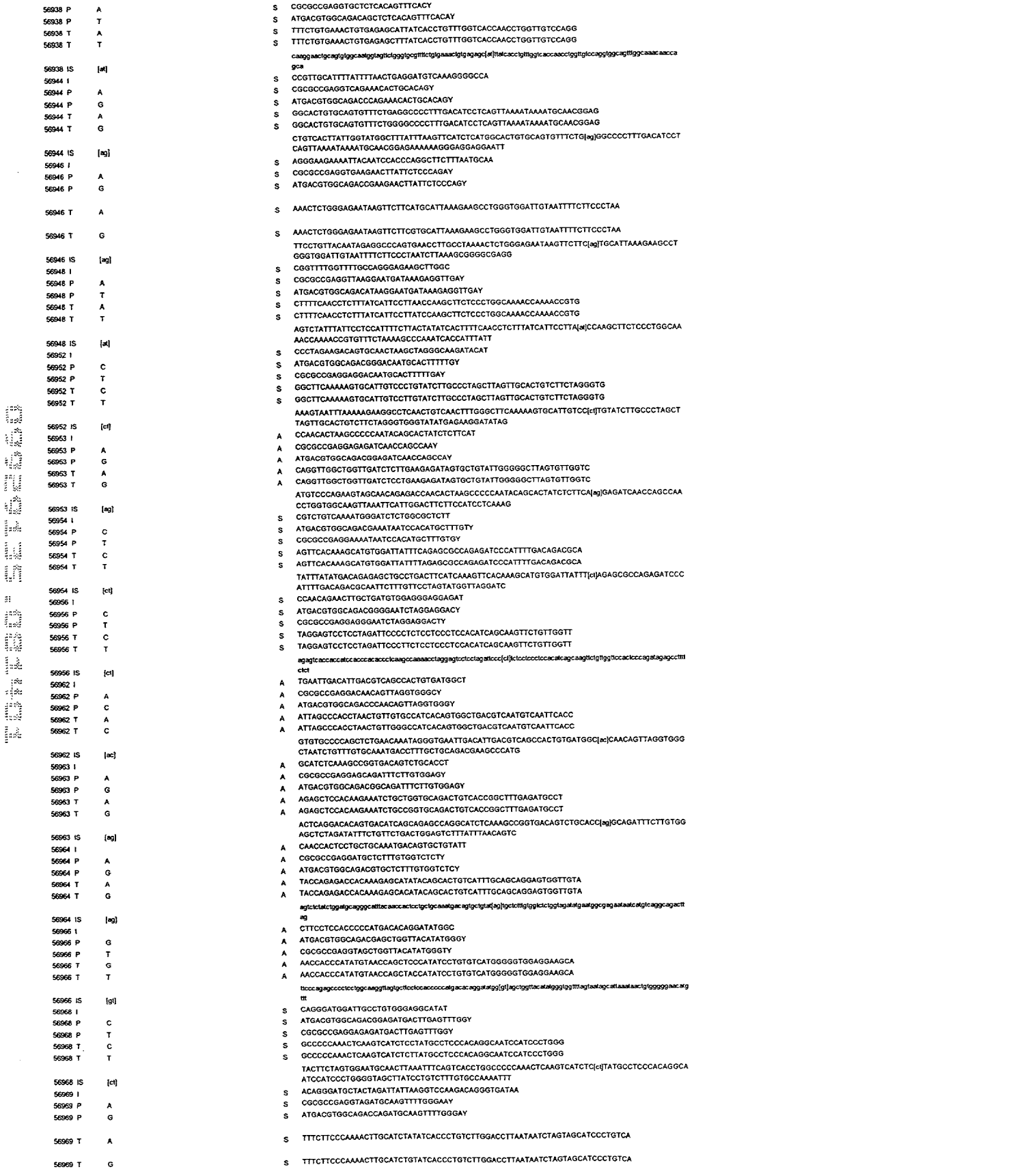

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56969 T G S TTTCTTCCCAAAACTTGCATCTGTATCACCCTGTCTTGGACCTTAATAATCTAGTAGCATCCCTGTCA

FIGURE 129D

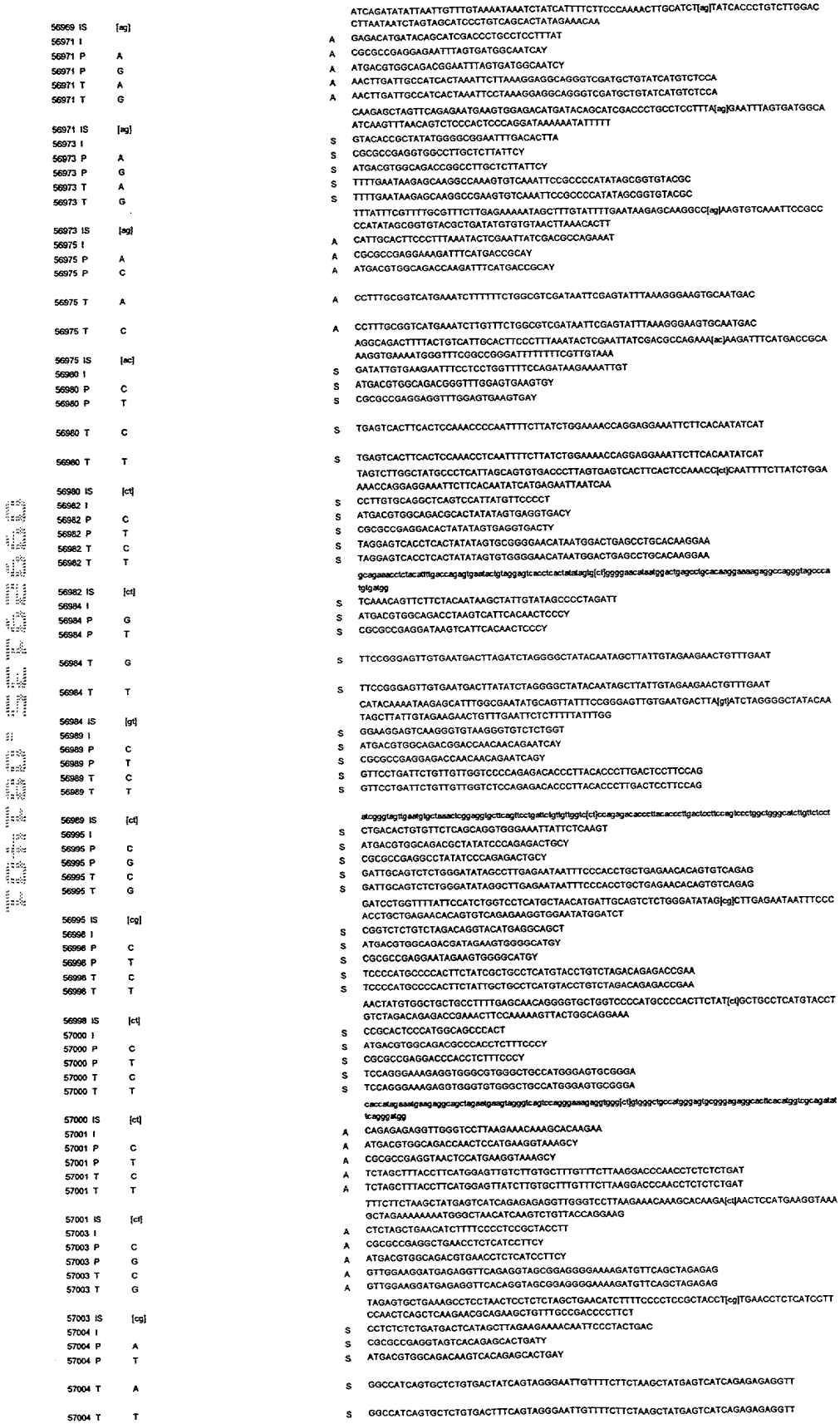

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57004 P T S ATGACGTGGCAGACAAGTCACAGAGCACTGAY
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FIGURE 129D

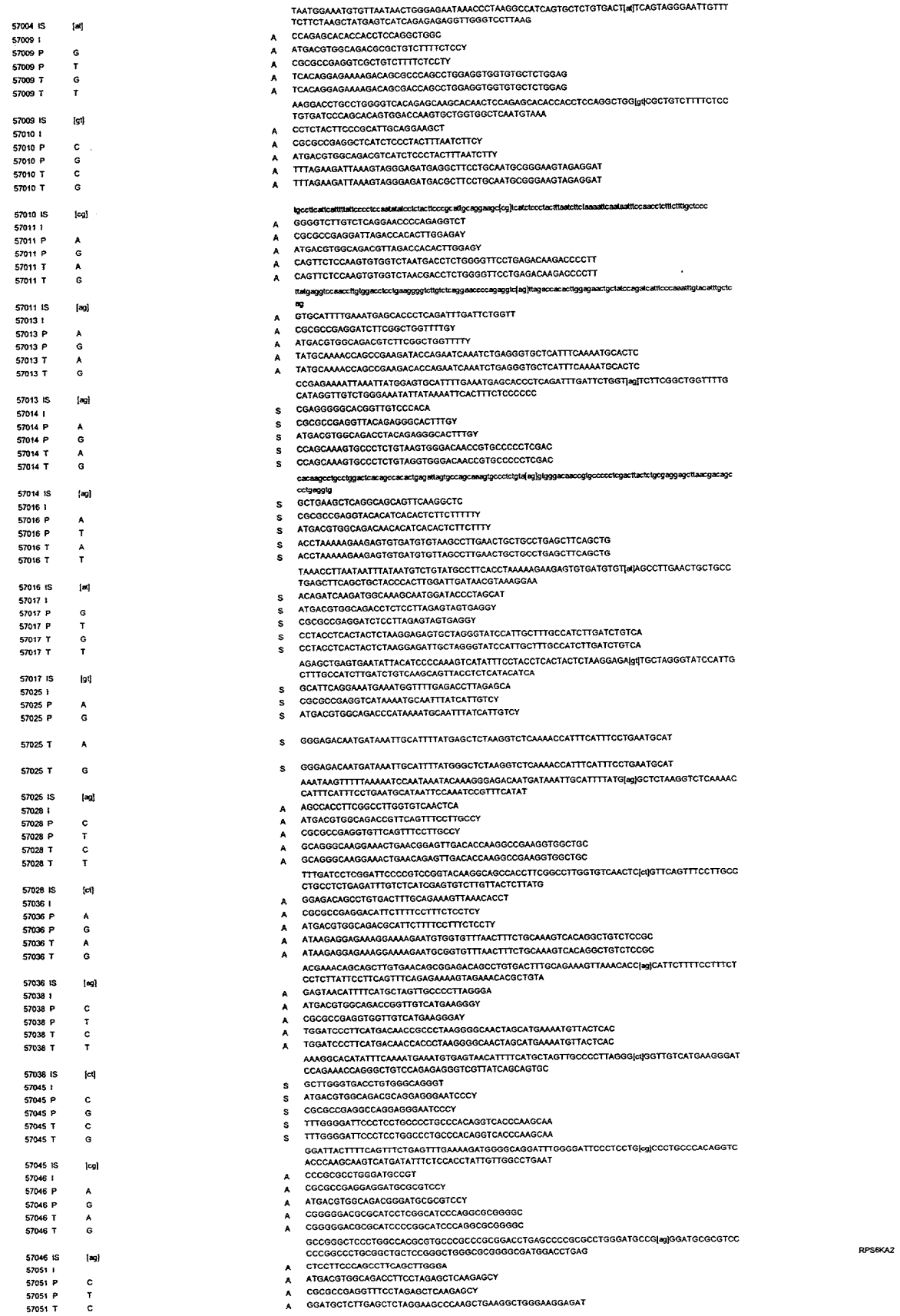

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FIGURE 129D

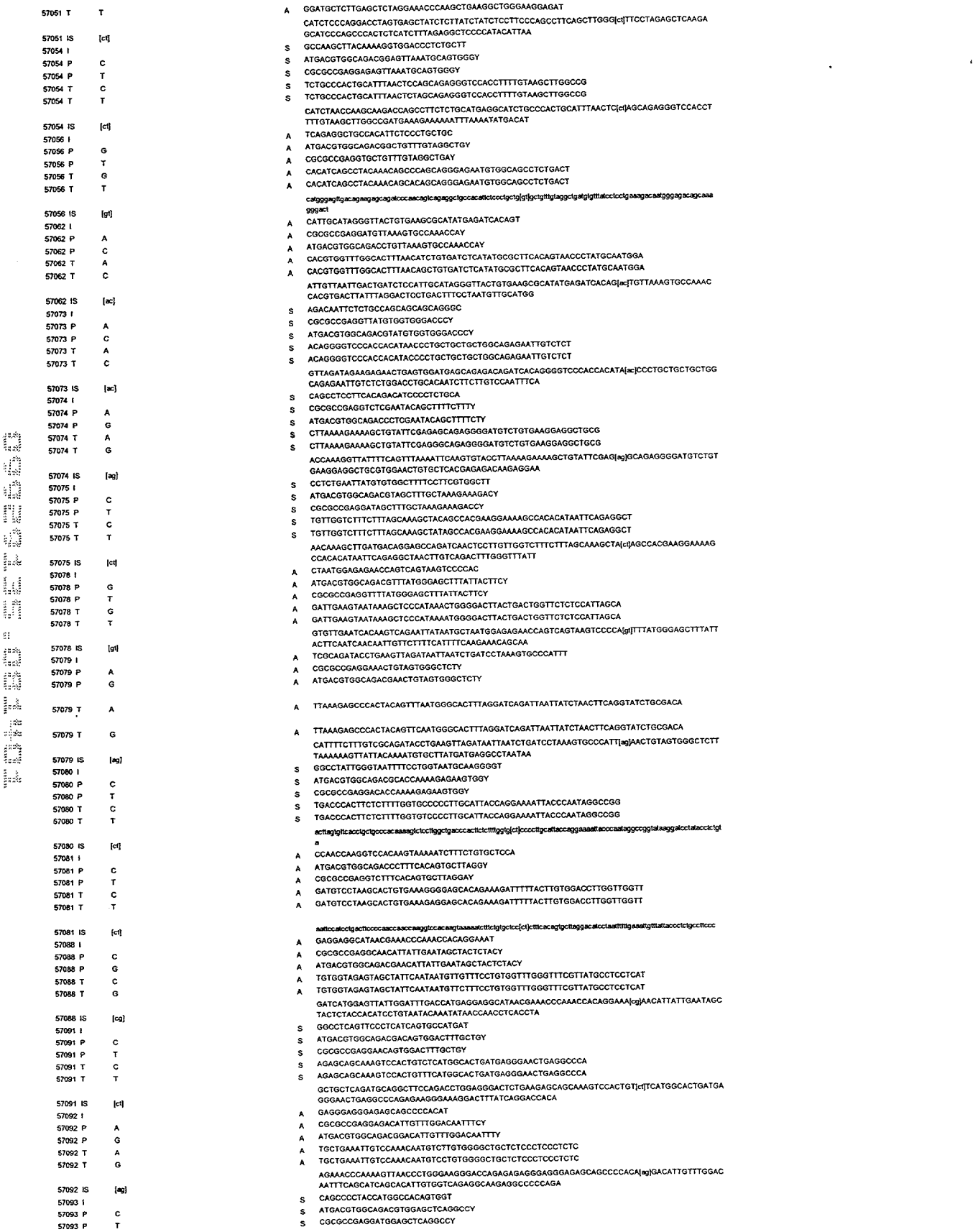

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FIGURE 129D

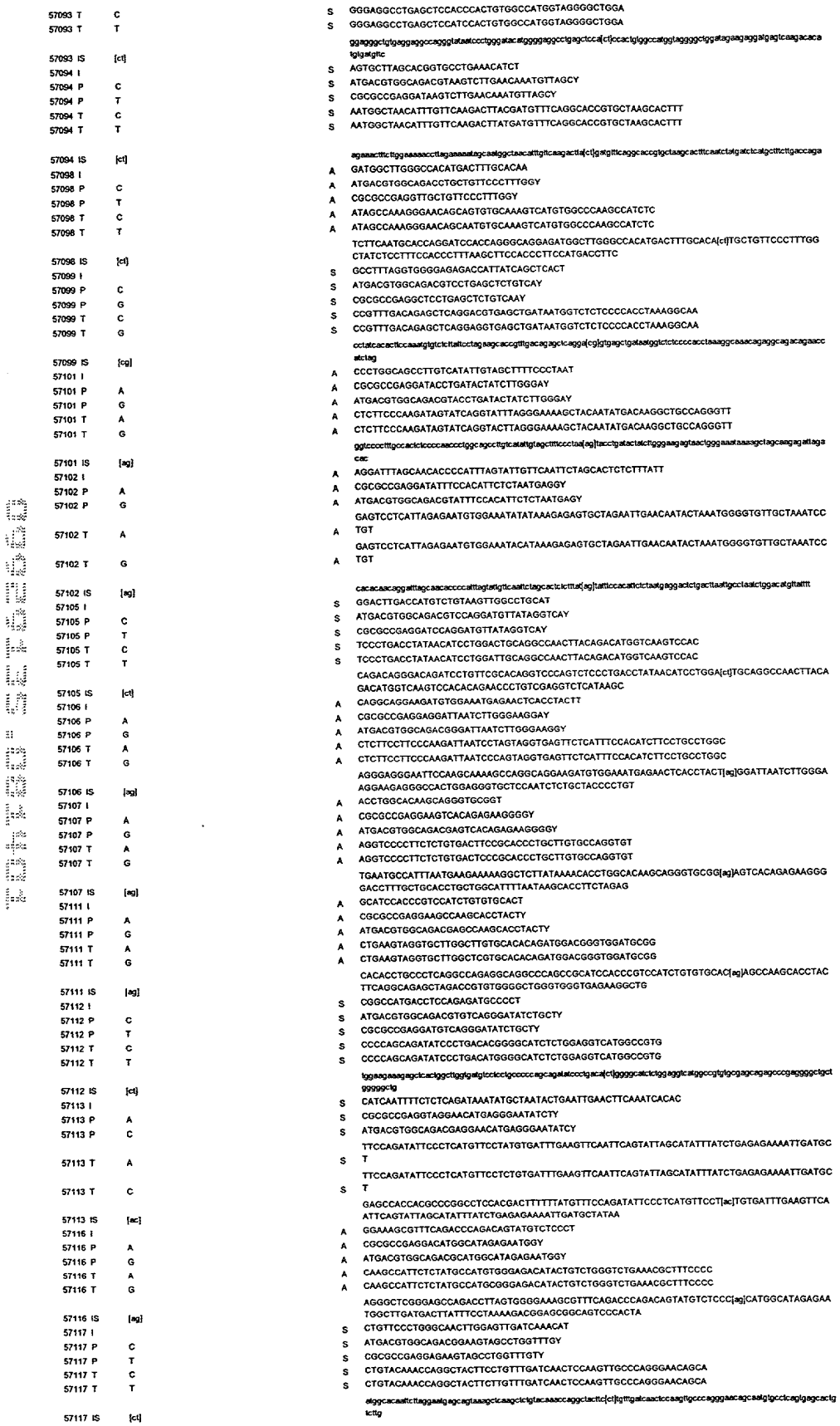

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A CAGGCAGGAAGATGTGGAAATGAGAACTCACCTACTT
A CGCGCCGAGGAGGATTAATCTTGGGAAGGAY
A ATGACGTGGCAGACGGGATTAATCTTGGGAAGGY
A CTCTTCCTTCCCAAGATTAATCCTAGTAGGTGAGTTCTCATTTCCACATCTTCCTGCCTGGC
A CTCTTCCTTCCCAAGATTAATCCCAGTAGGTGAGTTCTCATTTCCACATCTTCCTGCCTGGC
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A CGCGCCGAGGAAGTCACAGAGAAGGGGY
A ATGACGTGGCAGACGAGTCACAGAGAAGGGGY
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S CGCGCCGAGGATGTCAGGGATATCTGCTY
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FIGURE 129D

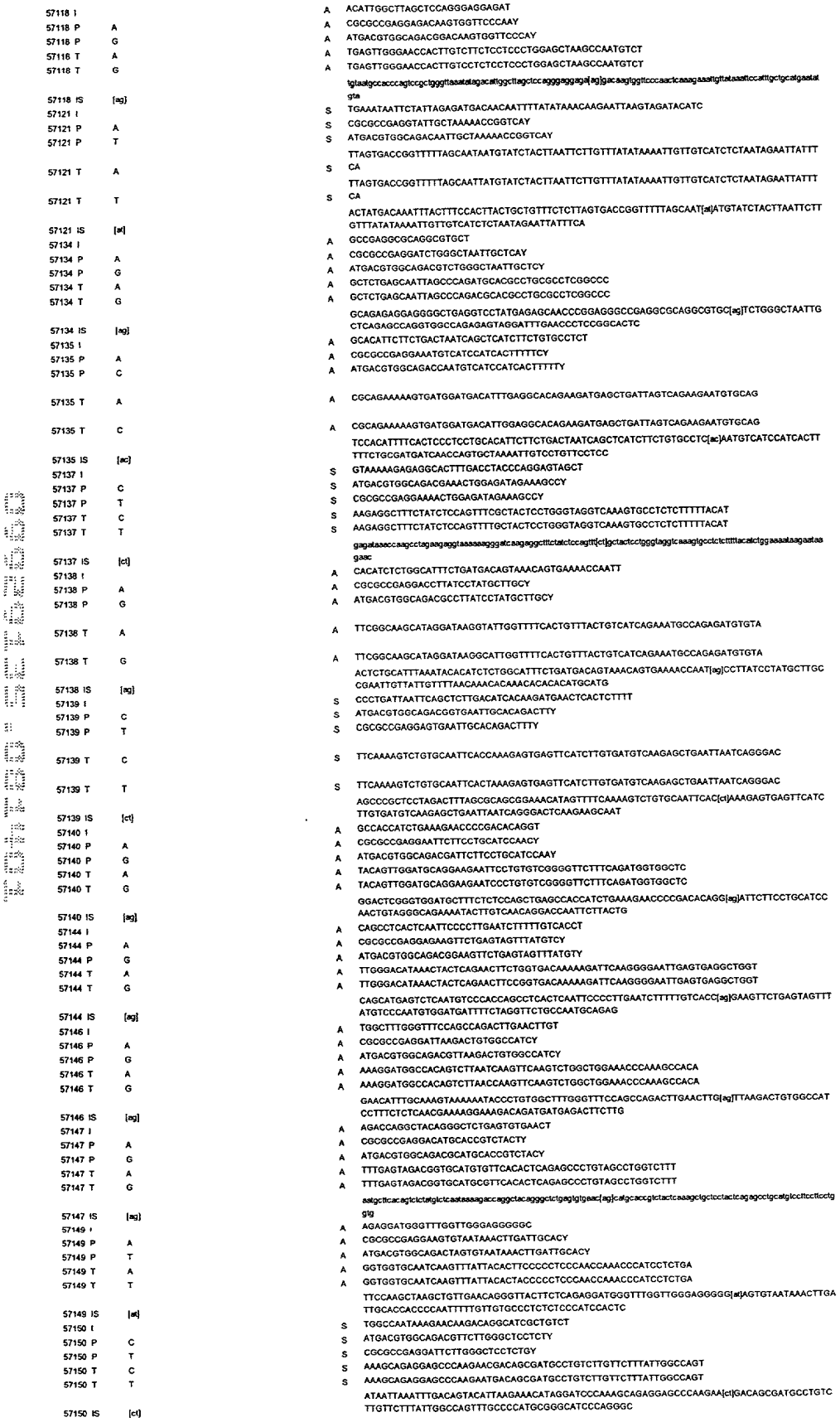

57118 I
57118 P A
57118 P G
57116 T A
57118 T G
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57121 P A
57121 P T
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57121 T T
57121 IS [at]
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57134 P G
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57134 T G
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57135 T A
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57135 IS [ac]
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57137 P C
57137 P T
57137 T C
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FIGURE 129D

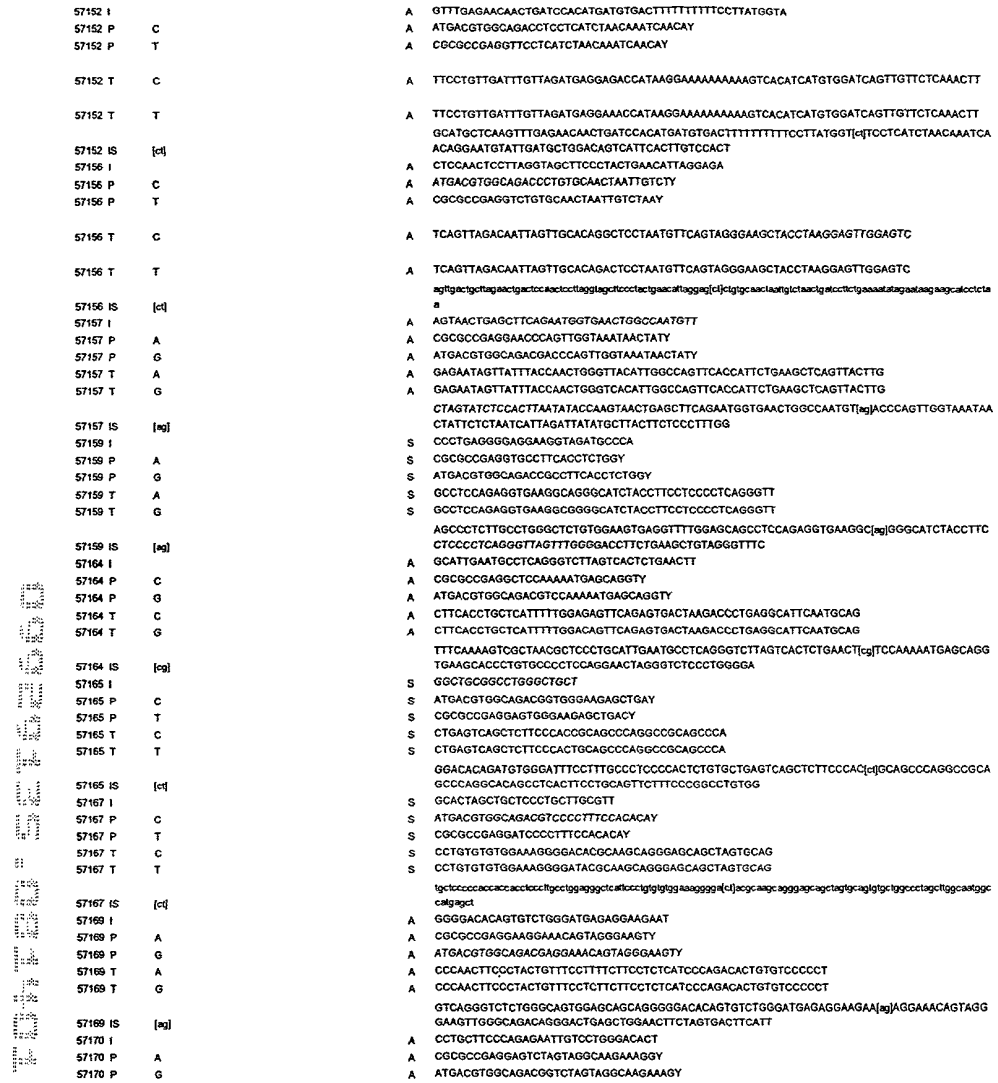
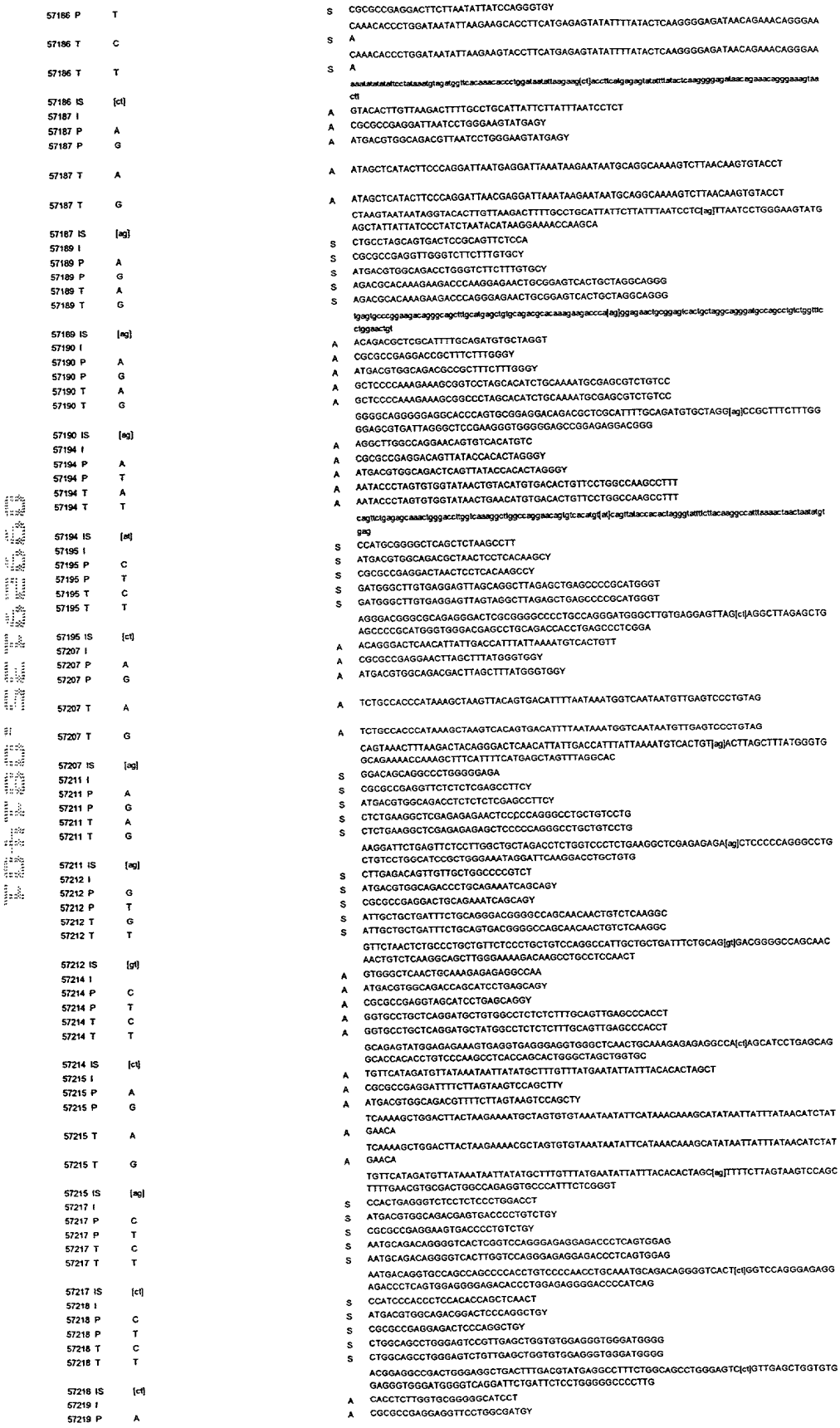
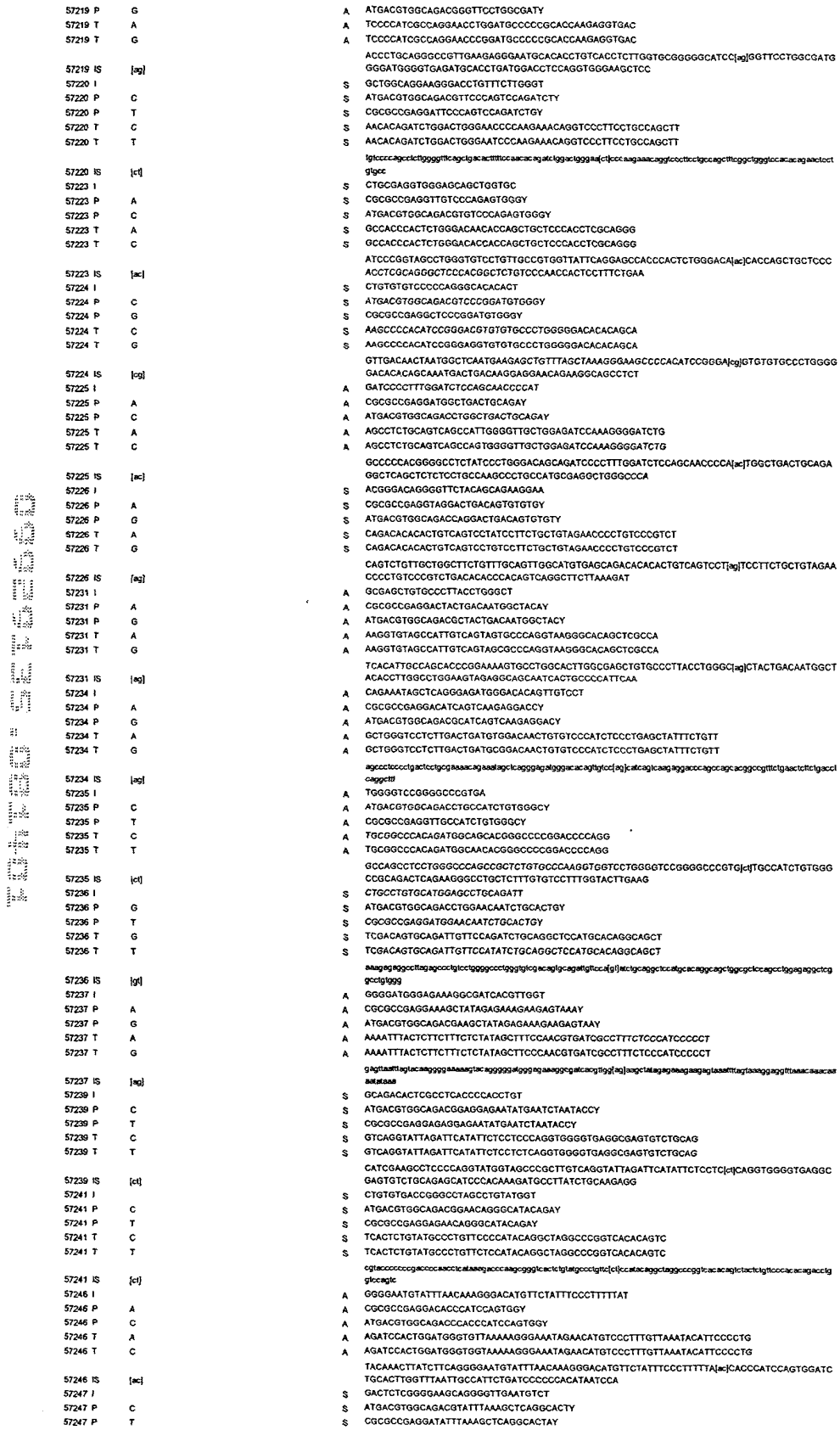


FIGURE 129D


57186 P T
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57186 T T
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57187 P G
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57187 T G
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57189 T G
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57190 P G
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57194 IS [at]
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57195 P C
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57195 P T
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57195 T C
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57211 T A
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57211 T G
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57212 T G
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57214 T C
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57214 T T
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57215 P G
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57217 T C
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57225 I A GATCCCCTTTGGATCTCCAGCAACCCCAT
57225 P A A CGCGCCGAGGATGGCTGACTGCAGAY
57225 P C A ATGACGTGGCAGACCTGGCTGACTGCAGAY
57225 T A A AGCCTCTGCAGTCAGCCATTGGGGTTGCTGGAGATCCAAAGGGGATCTG
57225 T C A AGCCTCTGCAGTCAGCCAGTGGGGTTGCTGGAGATCCAAAGGGGATCTG
GCCCCCACGGGGCCTCTATCCCTGGGACAGCAGATCCCCTTTGGATCTCCAGCAACCCCA[ac]TGGCTGACTGCAGA
57225 IS [ac] GGCTCAGCTCTCTCCTGCCAAGCCCTGCCATGCGAGGCTGGGCCCA
57226 I S ACGGGACAGGGGTTCTACAGCAGAAGGAA
57226 P A S CGCGCCGAGGTAGGACTGACAGTGTGTGY
57226 P G S ATGACGTGGCAGACCAGGACTGACAGTGTGTY
57226 T A S CAGACACACACTGTCAGTCCTATCCTTCTGCTGTAGAACCCCTGTCCCGTCT
57226 T G S CAGACACACACTGTCAGTCCTGTCCTTCTGCTGTAGAACCCCTGTCCCGTCT
CAGTCTGTTGCTGGCTTCTGTTTGCAGTTGGCATGTGAGCAGACACACACTGTCAGTCCT[ag]TCCTTCTGCTGTAGAA
57226 IS [ag] CCCCTGTCCCGTCTGACACACCCACAGTCAGGCTTCTTAAAGAT
57231 I A GCGAGCTGTGCCCTTACCTGGGCT
57231 P A A CGCGCCGAGGACTACTGACAATGGCTACAY
57231 P G A ATGACGTGGCAGACGCTACTGACAATGGCTACY
57231 T A A AAGGTGTAGCCATTGTCAGTAGTGCCCAGGTAAGGGCACAGCTCGCCA
57231 T G A AAGGTGTAGCCATTGTCAGTAGCGCCCAGGTAAGGGCACAGCTCGCCA
TCACATTGCCAGCACCCGGAAAAGTGCCTGGCACTTGGCGAGCTGTGCCCTTACCTGGGC[ag]CTACTGACAATGGCT
57231 IS [ag] ACACCTTGGCCTGGAAGTAGAGGCAGCAATCACTGCCCCATTCAA
57234 I A CAGAAATAGCTCAGGGAGATGGGACACAGTTGTCCT
57234 P A A CGCGCCGAGGACATCAGTCAAGAGGACCY
57234 P G A ATGACGTGGCAGACGCATCAGTCAAGAGGACY
57234 T A A GCTGGGTCCTCTTGACTGATGTGGACAACTGTGTCCCATCTCCCTGAGCTATTTCTGTT
57234 T G A GCTGGGTCCTCTTGACTGATGCGGACAACTGTGTCCCATCTCCCTGAGCTATTTCTGTT
agcccteccctgactcctgcgaaaacagaaatagctcagggagatgggacacagttgtcc[ag]catcagtcaagaggacccagccagccaggccgtttctgaactcttctgaccl
57234 IS [ag] caggctt
57235 I A TGGGGTCCGGGGCCCGTGA
57235 P C A ATGACGTGGCAGACCTGCCATCTGTGGGCY
57235 P T A CGCGCCGAGGTTGCCATCTGTGGGCY
57235 T C A TGCGGCCCACAGATGGCAGCACGGGCCCCGGACCCCAGG
57235 T T A TGCGGCCCACAGATGGCAACACGGGCCCCGGACCCCAGG
GCCAGCCTCCTGGGCCCAGCCGCTCTGTGCCCAAGGTGGTCCTGGGGTCCGGGGCCCGTG[ct]TGCCATCTGTGGG
57235 IS [ct] CCGCAGACTCAGAAGGGCCTGCTCTTTGTGTCCTTTGGTACTTGAAG
57236 I S CTGCCTGTGCATGGAGCCTGCAGATT
57236 P G S ATGACGTGGCAGACCTGGAACAATCTGCACTGY
57236 P T S CGCGCCGAGGATGGAACAATCTGCACTGY
57236 T G S TCGACAGTGCAGATTGTTCCAGATCTGCAGGCTCCATGCACAGGCAGCT
57236 T T S TCGACAGTGCAGATTGTTCCATATCTGCAGGCTCCATGCACAGGCAGCT
aaagagaggcctagagccctgtcctgggccctgggtgtcgacagtgcagattgttcca[gt]atctgcaggctccatgcacaggcagctggcgctccagcctggagaggctcg
57236 IS [gt] gcctgtggg
57237 I A GGGGATGGGAGAAAGGCGATCACGTTGGT
57237 P A A CGCGCCGAGGAAAGCTATAGAGAAAGAAGAGTAAAY
57237 P G A ATGACGTGGCAGACGAAGCTATAGAGAAAGAAGAGTAAY
57237 T A A AAAATTTACTCTTCTTTCTCTATAGCTTTCCAACGTGATCGCCTTTCTCCCATCCCCCT
57237 T G A AAAATTTACTCTTCTTTCTCTATAGCTTCCCAACGTGATCGCCTTTCTCCCATCCCCCT
gagttaatttagtacaagggaaaaagtacagggggatgggagaaaggcgatcacgtggt[ag]aagctatagagaaagaagagtaaatttttagtaaaggaggtttaaaacaaacaa
57237 IS [ag] aatataaa
57239 I S GCAGACACTCGCCTCACCCCACCTGT
57239 P C S ATGACGTGGCAGACGGAGGAGAATATGAATCTAATACCY
57239 P T S CGCGCCGAGGAGAGGAGAATATGAATCTAATACCY
57239 T C S GTCAGGTATTAGATTCATATTCTCCTCCCAGGTGGGGTGAGGCGAGTGTCTGCAG
57239 T T S GTCAGGTATTAGATTCATATTCTCCTCTCAGGTGGGGTGAGGCGAGTGTCTGCAG
CATCGAAGCCTCCCCAGGTATGGTAGCCCGCTTGTCAGGTATTAGATTCATATTCTCCTC[ct]CAGGTGGGGTGAGGC
57239 IS [ct] GAGTGTCTGCAGAGCATCCCACAAAGATGCCTTATCTGCAAGAGG
57241 I S CTGTGTGACCGGGCCTAGCCTGTATGGT
57241 P C S ATGACGTGGCAGACGGAACAGGGCATACAGAY
57241 P T S CGCGCCGAGGAGAACAGGGCATACAGAY
57241 T C S TCACTCTGTATGCCCTGTTCCCCATACAGGCTAGGCCCGGTCACACAGTC
57241 T T S TCACTCTGTATGCCCTGTTCTCCATACAGGCTAGGCCCGGTCACACAGTC
cgtaccccccgaccccaacctcataaagacccaagcgggtcactctgtatgccctgttc[ct]ccatacaggctaggcccggtcacacagtctactctgttcccacacagacctg
57241 IS [ct] gtccagtc
57246 I A GGGGAATGTATTTAACAAAGGGACATGTTCTATTTCCCTTTTTAT
57246 P A A CGCGCCGAGGACACCCATCCAGTGGY
57246 P C A ATGACGTGGCAGACCCACCCATCCAGTGGY
57246 T A A AGATCCACTGGATGGGTGTTAAAAAGGGAAATAGAACATGTCCCTTTGTTAAATACATTCCCCTG
57246 T C A AGATCCACTGGATGGGTGGTAAAAAGGGAAATAGAACATGTCCCTTTGTTAAATACATTCCCCTG
TACAAACTTATCTTCAGGGGAATGTATTTAACAAAGGGACATGTTCTATTTCCCTTTTTA[ac]CACCCATCCAGTGGATC
57246 IS [ac] TGCACTTGGTTTAATTGCCATTCTGATCCCCCCACATAATCCA
57247 I S GACTCTCGGGGAAGCAGGGGTTGAATGTCT
57247 P C S ATGACGTGGCAGACGTATTTAAAGCTCAGGCACTY
57247 P T S CGCGCCGAGGATATTTAAAGCTCAGGCACTAY

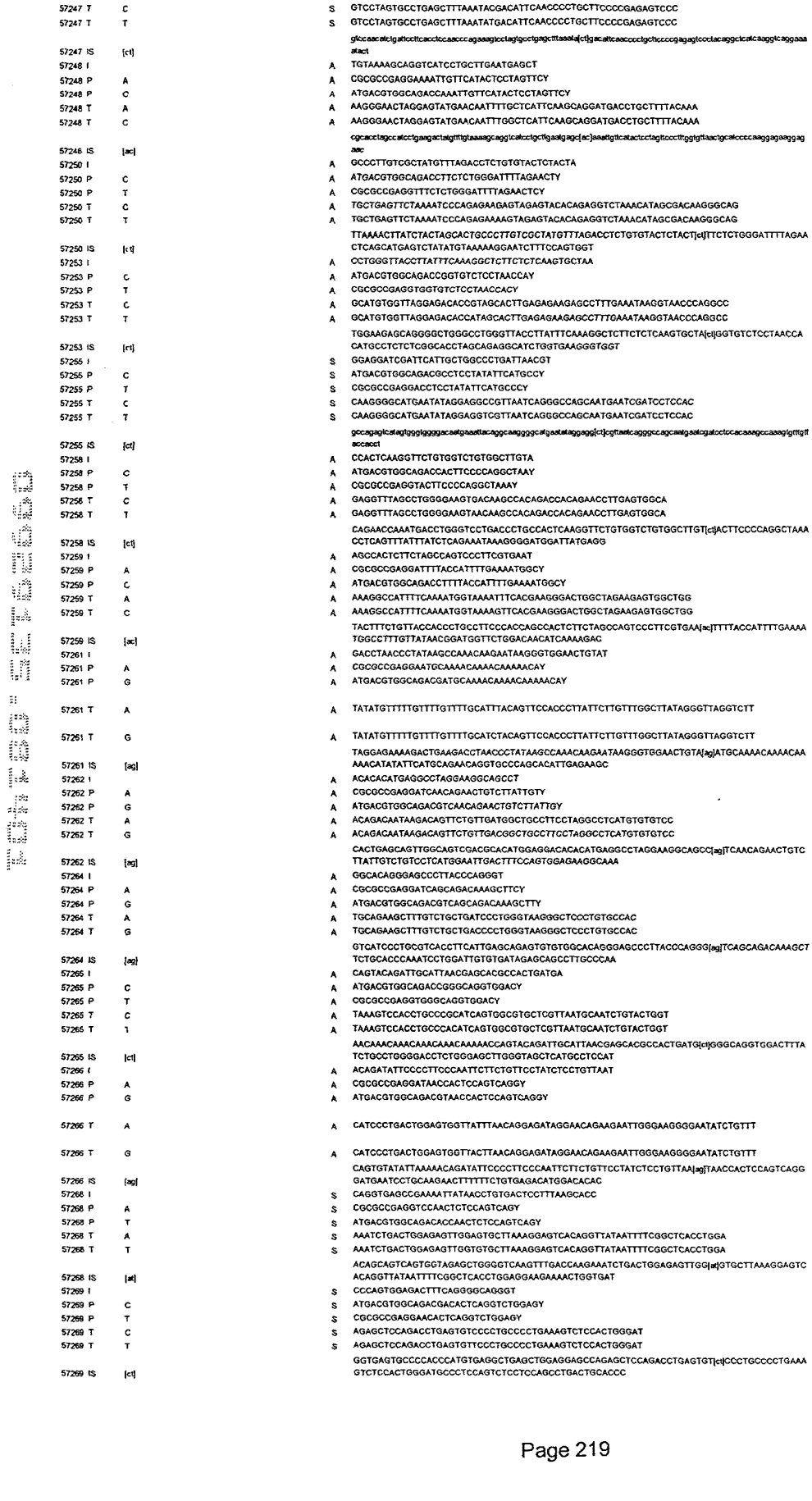

57247 T C S GTCCTAGTGCCTGAGCTTTAAATACGACATTCAACCCCTGCTTCCCCGAGAGTCCC
57247 T T S GTCCTAGTGCCTGAGCTTTAAATATGACATTCAACCCCTGCTTCCCCGAGAGTCCC
57247 IS [ct] gtccaacatctgatccttcacctccaacccagaaagtcctagtgcctgagctttaaata[ct]gacattcaaccccctgcttccccgagagtcccctacaggctcatcaaggtcaggaaaatact
57248 I A TGTAAAAGCAGGTCATCCTGCTTGAATGAGCT
57248 P A A CGCGCCGAGGAAAATTGTTCATACTCCTAGTTCY
57248 P C A ATGACGTGGCAGACCAAATTGTTCATACTCCTAGTTCY
57248 T A A AAGGGAACTAGGAGTATGAACAATTTTGCTCATTCAAGCAGGATGACCTGCTTTTACAAA
57248 T C A AAGGGAACTAGGAGTATGAACAATTTGGCTCATTCAAGCAGGATGACCTGCTTTTACAAA
57248 IS [ac] cgcacctagccatcctgaagactatgtttgtaaaagcaggtcatcctgctgaatgagc[ac]aaattgttcatactcctagttcctttggtgttaactgcatccccaaggagaagaggagaac
57250 I A GCCCTTGTCGCTATGTTTAGACCTCTGTGTACTCTACTA
57250 P C A ATGACGTGGCAGACCTTCTCTGGGATTTTAGAACTY
57250 P T A CGCGCCGAGGTTTCTCTGGGATTTTAGAACTCY
57250 T C A TGCTGAGTTCTAAAATCCCAGAGAAGAGTAGAGTACACAGAGGTCTAAACATAGCGACAAGGGCAG
57250 T T A TGCTGAGTTCTAAAATCCCAGAGAAAAGTAGAGTACACAGAGGTCTAAACATAGCGACAAGGGCAG
57250 IS [ct] TTAAAACTTATCTACTAGCACTGCCCTTGTCGCTATGTTTAGACCTCTGTGTACTCTACT[ct]TTCTCTGGGATTTTAGAACTCAGCATGAGTCTATATGTAAAAAGGAATCTTTCCAGTGGT
57253 I A CCTGGGTTACCTTATTTCAAAGGCTCTTCTCTCAAGTGCTAA
57253 P C A ATGACGTGGCAGACCGGTGTCTCCTAACCAY
57253 P T A CGCGCCGAGGTGGTGTCTCCTAACCACY
57253 T C A GCATGTGGTTAGGAGACACCGTAGCACTTGAGAGAAGAGCCTTTGAAATAAGGTAACCCAGGCC
57253 T T A GCATGTGGTTAGGAGACACCATAGCACTTGAGAGAAGAGCCTTTGAAATAAGGTAACCCAGGCC
57253 IS [ct] TGGAAGAGCAGGGGCTGGGCCTGGGTTACCTTATTTCAAAGGCTCTTCTCTCAAGTGCTA[ct]GGTGTCTCCTAACCACATGCCTCTCTCGGCACCTAGCAGAGGCATCTGGTGAAGGGTGGT
57255 I S GGAGGATCGATTCATTGCTGGCCCTGATTAACGT
57255 P C S ATGACGTGGCAGACGCCTCCTATATTCATGCCY
57255 P T S CGCGCCGAGGACCTCCTATATTCATGCCCY
57255 T C S CAAGGGGCATGAATATAGGAGGCCGTTAATCAGGGCCAGCAATGAATCGATCCTCCAC
57255 T T S CAAGGGGCATGAATATAGGAGGTCGTTAATCAGGGCCAGCAATGAATCGATCCTCCAC
57255 IS [ct] gccagagtcatagtgggtggggacaatgaaatacaggcaaggggcatgaatataggagg[ct]cgttaatcagggccagcaatgaatcgatcctccacaaagccaaagtgttgttgtaccacct
57258 I A CCACTCAAGGTTCTGTGGTCTGTGGCTTGTA
57258 P C A ATGACGTGGCAGACCACTTCCCCAGGCTAAY
57258 P T A CGCGCCGAGGTACTTCCCCAGGCTAAAY
57258 T C A GAGGTTTAGCCTGGGGAAGTGACAAGCCACAGACCACAGAACCTTGAGTGGCA
57258 T T A GAGGTTTAGCCTGGGGAAGTAACAAGCCACAGACCACAGAACCTTGAGTGGCA
57258 IS [ct] CAGAACCAAATGACCTGGGTCCTGACCCTGCCACTCAAGGTTCTGTGGTCTGTGGCTTGT[ct]ACTTCCCCAGGCTAACCCTCAGTTTATTTATCTCAGAAATAAAGGGGATGGATTATGAGG
57259 I A AGCCACTCTTCTAGCCAGTCCCTTCGTGAAT
57259 P A A CGCGCCGAGGATTTTACCATTTTGAAAATGGCY
57259 P C A ATGACGTGGCAGACCTTTTACCATTTTGAAAATGGCY
57259 T A A AAAGGCCATTTTCAAAATGGTAAAATTTCACGAAGGGACTGGCTAGAAGAGTGGCTGG
57259 T C A AAAGGCCATTTTCAAAATGGTAAAAGTTCACGAAGGGACTGGCTAGAAGAGTGGCTGG
57259 IS [ac] TACTTTCTGTTACCACCCTGCCTTCCCACCAGCCACTCTTCTAGCCAGTCCCTTCGTGAA[ac]TTTTACCATTTTGAAAATGGCCTTTGTTATAACGGATGGTTCTGGACAACATCAAAAGAC
57261 I A GACCTAACCCTATAAGCCAAACAAGAATAAGGGTGGAACTGTAT
57261 P A A CGCGCCGAGGAATGCAAAACAAAACAAAAACAY
57261 P G A ATGACGTGGCAGACGATGCAAAACAAAACAAAAACAY
57261 T A A TATATGTTTTTGTTTTGTTTTGCATTTACAGTTCCACCCTTATTCTTGTTTGGCTTATAGGGTTAGGTCTT
57261 T G A TATATGTTTTTGTTTTGTTTTGCATCTACAGTTCCACCCTTATTCTTGTTTGGCTTATAGGGTTAGGTCTT
57261 IS [ag] TAGGAGAAAAGACTGAAGACCTAACCCTATAAGCCAAACAAGAATAAGGGTGGAACTGTA[ag]ATGCAAAACAAAACAAAACATATATTCATGCAGAACAGGTGCCCAGCACATTGAGAAGC
57262 I A ACACACATGAGGCCTAGGAAGGCAGCCT
57262 P A A CGCGCCGAGGATCAACAGAACTGTCTTATTGTY
57262 P G A ATGACGTGGCAGACGTCAACAGAACTGTCTTATTGY
57262 T A A ACAGACAATAAGACAGTTCTGTTGATGGCTGCCTTCCTAGGCCTCATGTGTGTCC
57262 T G A ACAGACAATAAGACAGTTCTGTTGACGGCTGCCTTCCTAGGCCTCATGTGTGTCC
57262 IS [ag] CACTGAGCAGTTGGCAGTCGACGCACATGGAGGACACACATGAGGCCTAGGAAGGCAGCC[ag]TCAACAGAACTGTCTTATTGTCTGTCCTCATGGAATTGACTTTCCAGTGGAGAAGGCAAA
57264 I A GGCACAGGGAGCCCTTACCCAGGGT
57264 P A A CGCGCCGAGGATCAGCAGACAAAGCTTCY
57264 P G A ATGACGTGGCAGACGTCAGCAGACAAAGCTTY
57264 T A A TGCAGAAGCTTTGTCTGCTGATCCCTGGGTAAGGGCTCCCTGTGCCAC
57264 T G A TGCAGAAGCTTTGTCTGCTGACCCCTGGGTAAGGGCTCCCTGTGCCAC
57264 IS [ag] GTCATCCCTGCGTCACCTTCATTGAGCAGAGTGTGTGGCACAGGGAGCCCTTACCCAGGG[ag]TCAGCAGACAAAGCTTCTGCACCCAAATCCTGGATTGTGTGATAGAGCAGCCTTGCCCAA
57265 I A CAGTACAGATTGCATTAACGAGCACGCCACTGATGA
57265 P C A ATGACGTGGCAGACCGGGCAGGTGGACY
57265 P T A CGCGCCGAGGTGGGCAGGTGGACY
57265 T C A TAAAGTCCACCTGCCCGCATCAGTGGCGTGCTCGTTAATGCAATCTGTACTGGT
57265 T T A TAAAGTCCACCTGCCCACATCAGTGGCGTGCTCGTTAATGCAATCTGTACTGGT
57265 IS [ct] AACAAACAAACAAACAAACAAAAACCAGTACAGATTGCATTAACGAGCACGCCACTGATG[ct]GGGCAGGTGGACTTTATCTGCCTGGGGACCTCTGGGAGCTTGGGTAGCTCATGCCTCCAT
57266 I A ACAGATATTCCCCTTCCCAATTCTTCTGTTCCTATCTCCTGTTAAT
57266 P A A CGCGCCGAGGATAACCACTCCAGTCAGGY
57266 P G A ATGACGTGGCAGACGTAACCACTCCAGTCAGGY
57266 T A A CATCCCTGACTGGAGTGGTTATTTAACAGGAGATAGGAACAGAAGAATTGGGAAGGGGAATATCTGTTT
57266 T G A CATCCCTGACTGGAGTGGTTACTTAACAGGAGATAGGAACAGAAGAATTGGGAAGGGGAATATCTGTTT
57266 IS [ag] CAGTGTATATTAAAAACAGATATTCCCCTTCCCAATTCTTCTGTTCCTATCTCCTGTTAA[ag]TAACCACTCCAGTCAGGGATGAATCCTGCAAGAACTTTTTTCTGTGAGACATGGACACAC
57268 I S CAGGTGAGCCGAAAATTATAACCTGTGACTCCTTTAAGCACC
57268 P A S CGCGCCGAGGTCCAACTCTCCAGTCAGY
57268 P T S ATGACGTGGCAGACACCAACTCTCCAGTCAGY
57268 T A S AAATCTGACTGGAGAGTTGGAGTGCTTAAAGGAGTCACAGGTTATAATTTTCGGCTCACCTGGA
57268 T T S AAATCTGACTGGAGAGTTGGTGTGCTTAAAGGAGTCACAGGTTATAATTTTCGGCTCACCTGGA
57268 IS [at] ACAGCAGTCAGTGGTAGAGCTGGGGTCAAGTTTGACCAAGAAATCTGACTGGAGAGTTGG[at]GTGCTTAAAGGAGTCACAGGTTATAATTTTCGGCTCACCTGGAGAAGAAAACTGGTGAT
57269 I S CCCAGTGGAGACTTTCAGGGGCAGGGT
57269 P C S ATGACGTGGCAGACGACACTCAGGTCTGGAGY
57269 P T S CGCGCCGAGGAACACTCAGGTCTGGAGY
57269 T C S AGAGCTCCAGACCTGAGTGTCCCCTGCCCCTGAAAGTCTCCACTGGGAT
57269 T T S AGAGCTCCAGACCTGAGTGTTCCCTGCCCCTGAAAGTCTCCACTGGGAT
57269 IS [ct] GGTGAGTGCCCCACCCATGTGAGGCTGAGCTGGAGGAGCCAGAGCTCCAGACCTGAGTGT[ct]CCCTGCCCCTGAAAGTCTCCACTGGGATGCCCTCCAGTCTCCTCCAGCCTGACTGCACCC

FIGURE 129D

57273 I		S	GGTATGGGACAGGCAACTGAGGACAGGGT	
57273 P	C	S	ATGACGTGGCAGACGCTGAGACACTGGGGY	
57273 P	T	S	CGCGCCGAGGACTGAGACACTGGGGY	
57273 T	C	S	GCACCCCCAGTGTCTCAGCCCCTGTCCTCAGTTGCCTGTCCCATACCCA	
57273 T	T	S	GCACCCCCAGTGTCTCAGTCCCTGTCCTCAGTTGCCTGTCCCATACCCA	
57273 IS	[ct]		catgagggtcactgtctgcatgtgcgtgaatctccaggtgggcaccccagtgtctcag[ct]ccctgtcctcagttgcctgtcccatacccacctctcaacatgctatcaggagctc cacc	
57277 I		A	CCTCTCTGACCAATCTCTTCCAGTGAGCCCAGA	
57277 P	C	A	ATGACGTGGCAGACCGAGCAGGGAGGAACY	
57277 P	T	A	CGCGCCGAGGTGAGCAGGGAGGAACY	
57277 T	C	A	GGGGGTTCCTCCCTGCTCGCTGGGCTCACTGGAAGAGATTGGTCAGAGAGGCA	
57277 T	T	A	GGGGGTTCCTCCCTGCTCACTGGGCTCACTGGAAGAGATTGGTCAGAGAGGCA	
57277 IS	[ct]		CGCAACGGGCCTTCCAGACTAATTCATGCCTCTCTGACCAATCTCTTCCAGTGAGCCCAG[ct]GAGCAGGGAGGAACC CCCAACCATACACGCCTCTGCACACTGGCAGGGCAGGAAAGAAGC	
57278 I		S	CTTTTCACCTCTTTAACCACTCCTCAGGAACAGAACACTTCTAT	
57278 P	C	S	ATGACGTGGCAGACGGACTGGGGGTCTTTY	
57278 P	T	S	CGCGCCGAGGAGACTGGGGGTCTTTTAGY	
57278 T	C	S	GGAGCTAAAAGACCCCCAGTCCTAGAAGTGTTCTGTTCCTGAGGAGTGGTTAAAGAGGTGAAAAGAA	
57278 T	T	S	GGAGCTAAAAGACCCCCAGTCTTAGAAGTGTTCTGTTCCTGAGGAGTGGTTAAAGAGGTGAAAAGAA	
57278 IS	[ct]		GAGAAAAGACTAACTTGTCCCATCTGCTCACTTGCTTATGGAGCTAAAAGACCCCCAGTC[ct]TAGAAGTGTTCTGTTC CTGAGGAGTGGTTAAAGAGGTGAAAAGAAGAGGTGAATTAAAAG	FADS1
57281 I		S	CAGGCAGTAGTCACCAAGTAGAACAGGGCCT	
57281 P	G	S	ATGACGTGGCAGACCAGCATAGGTCACTGGAY	
57281 P	T	S	CGCGCCGAGGAAGCATAGGTCACTGGAY	
57281 T	G	S	CATCTCCAGTGACCTATGCTGGGCCCTGTTCTACTTGGTGACTACTGCCTGGG	
57281 T	T	S	CATCTCCAGTGACCTATGCTTGGCCCTGTTCTACTTGGTGACTACTGCCTGGG	
57281 IS	[gt]		ACTGTGGAGGGTAGGTGGTCTGGGCCCAGGGAGGTGGACACATCTCCAGTGACCTATGCT[gt]GGCCCTGTTCTACTT GGTGACTACTGCCTGGGCTGCCATTCCTAGGGCAGTGTTCTGGCA	
57284 I		A	GTCTCCACTTTACAACTGAAGAAACTGAGACTTAAGTGGTTTATAAAAGGTCAT	
57284 P	A	A	CGCGCCGAGGAAAAGCTAAATACAGGACAGAY	
57284 P	C	A	ATGACGTGGCAGACCAAAGCTAAATACAGGACAGAY	
57284 T	A	A	TGACTCTGTCCTGTATTTAGCTTTTTGACCTTTTATAAACCACTTAAGTCTCAGTTTCTTCAGTTGTAAAGTGGAGACAA	
57284 T	C	A	TGACTCTGTCCTGTATTTAGCTTTGTGACCTTTTATAAACCACTTAAGTCTCAGTTTCTTCAGTTGTAAAGTGGAGACAA	
57284 IS	[ac]		TAATGTTGTCTCCACTTTACAACTGAAGAAACTGAGACTTAAGTGGTTTATAAAAGGTCA[ac]AAAGCTAAATACAGGAC AGAGTCAGGCTTGAATTCTAAGACTTTTTCTGCCATGTGACAT	
7299 I		A	CTCTAATTCCTGCTGCTGTCCCCACGCTGATCT	
7299 P	A	A	CGCGCCGAGGACAAAAGGACACGATCATATTCA	
7299 P	G	A	CGCGCCGAGGGCAAAAGGACACGATCATATTC	
7299 T	A	A	CAGGTGAATATGATCGTGTCCTTTTGTGATCAGCGTGGGGACAGCAGCAGGAATTAGAGCA	
7299 T	G	A	CAGGTGAATATGATCGTGTCCTTTTGCGATCAGCGTGGGGACAGCAGCAGGAATTAGAGCA	
7299 IS	[AG]		CTGGTGCCTGTCCCACTGCTCTAATTCCTGCTGCTGTCCCCACGCTGATC[AG]CAAAAGGACACGATCATATTCACCT GACTGGGGTGCGGGAGCGGGGCCT	
7532 I		S	CAGTCAGTGGAGCCGAGACACCAAGAGCTT	
7532 P	C	S	CGCGCCGAGGCGTCCTCCTCGGCC	
7532 P	T	S	CGCGCCGAGGCATCCTCCTCGGCCA	
7532 T	C	S	CAGGGTGGCCGAGGAGGACGAGCTCTTGGTGTCTCGGCTCCACTGACTGCT	
7532 T	T	S	CAGGGTGGCCGAGGAGGATGAGCTCTTGGTGTCTCGGCTCCACTGACTGCT	
7532 IS	[CT]		TTCCCAGTCCCTGCCGTTCCCAGTCACTGCCTCAGGGTGGCCGAGGAGGA[CT]GAGCTCTTGGTGTCTCGGCTCCAC TGACTGCTTTTCTTTCTCCTTCAGAT	
14831 I		S	TAGACATTGTTTGTTATCTATATAGGGTTGACTGTTGTAGCCTGAAATGTA	
14831 P	G	S	CGCGCCGAGGCTGGCTCATTCTTTTAAAAAACTAAATC	
14831 P	A	S	CGCGCCGAGGTTGGCTCATTCTTTTAAAAAACTAAATC	
14831 T	G	S	AGAAGATTTAGTTTTTTTAAAAGAATGAGCCAGACATTTCAGGCTACAACAGTCAACCCTATATAGATAACAAACAATGT CTA	
14831 T	A	S	AGAAGATTTAGTTTTTTTAAAAGAATGAGCCAAACATTTCAGGCTACAACAGTCAACCCTATATAGATAACAAACAATGT CTA	
14831 IS	[GA]		attagaggaaagactctaagaagatttagttttttaaaagaatgagcca[GA]acatttcaggctacaacagtcaaccctatatagataacaaacaatgtcta	
14987 I		S	CCCAGATGCATAGTAGGCATCTAATCAATGCTTATTATACTGATTTTAAATGC	
14987 P	A	S	CGCGCCGAGGTATTTTTCCAGTGGGGGATGY	
14987 P	T	S	CGCGCCGAGGAATTTTTCCAGTGGGGGATGY	
14987 T	A	S	AGTACATCCCCCACTGGAAAAATACATTTAAAATCAGTATAATAAGCATTGATTAGATGCCTACTATGCATCTGGGCT	
14987 T	T	S	AGTACATCCCCCACTGGAAAAATTCATTTAAAATCAGTATAATAAGCATTGATTAGATGCCTACTATGCATCTGGGCT	
14987 IS	[AT]		GGTTTTCCTTCATTTGCAGCTAAATACAGAAATGAGAGAATATTTTGGAGCAGGGATGGAAGAAGAGAGGTATTCCCC TTCCCACAACCTTCTGATTTCCCAGTACATCCCCCACTGGAAAAAT[AT]CATTTAAAATCAGTATAATAAGCATTGATTA GATGCCTACTATGCATCTGGGCTTGAGGGCAAACTGGACTCAGGCCTTTTGG	
23395 I		S	GGGGAAGCCTCCAAAAGTCACTAGCTATGTGAACATACATGATA	
23395 P	G	S	CGCGCCGAGGCCTACAGGCCTATGGACTT	
23395 P	A	S	CGCGCCGAGGTCTACAGGCCTATGGACTTG	
23395 T	G	S	ATGTCAAGTCCATAGGCCTGTAGGATCATGTATGTTCACATAGCTAGTGACTTTTGGAGGCTTCCCCCA	
23395 T	A	S	ATGTCAAGTCCATAGGCCTGTAGAATCATGTATGTTCACATAGCTAGTGACTTTTGGAGGCTTCCCCCA	
23395 IS	[GA]		TTATAGCAGGTTTTACTTGGCATAACCATGTCAAGTCCATAGGCCTGTAG[GA]ATCATGTATGTTCACATAGCTAGTGA CTTTTGGAGGCTTCCCCCATGTGT	
23520 I		S	GGTGGCGTTTTTGTTTTAACTCTTCTGAACTGGTTACAAAACCACT	
23520 P	G	S	CGCGCCGAGGCCTCCCACGAATACATAAATAATGG	
23520 P	T	S	CGCGCCGAGGACTCCCACGAATACATAAATAATGG	
23520 T	G	S	CCACCCATTATTTATGTATTCGTGGGAGGGTGGTTTTGTAACCAGTTCAGAAGAGTTAAAACAAAAACGCCCACCGC	
23520 T	T	S	CCACCCATTATTTATGTATTCGTGGGAGTGTGGTTTTGTAACCAGTTCAGAAGAGTTAAAACAAAAACGCCCACCGC	
23520 IS	[GT]		AATTTCTTTAAAACATCGCCCCCCACCCATTATTTATGTATTCGTGGGAG[GT]GTGGTTTTGTAACCAGTTCAGAAGAG TTAAAACAAAAACGCCACCGCAGG	
25971 I		A	GGTACCCACATGTCACATTAGACACAAAATAAATCAGAAACAGCAGC	
25971 P	A	A	CGCGCCGAGGAAAATTCTTTAAAAGCAGCAAAAGY	
25971 P	T	A	ATGACGTGGCAGACTAAATTCTTTAAAAGCAGCAAAAGY	
25971 T	A	A	TTAACTTTTGCTGCTTTTAAAGAATTTTCTGCTGTTTCTGATTTATTTTGTGTCTAATGTGACATGTGGGTACCAG	
25971 T	T	A	TTAACTTTTGCTGCTTTTAAAGAATTTACTGCTGTTTCTGATTTATTTTGTGTCTAATGTGACATGTGGGTACCAG	

FIGURE 129D

				CATCCCACAGGACTGGTACCCACATGTCACATTAGACACAAAATAAATCAGAAACAGCAG[AT]AAATTCTTTAAAAGCA
25971	IS	[AT]		GCAAAAGTTAAAAAGCCTTCCTCTTTCTACATCATTTACAAAGT
28826	I		A	AAAGGAATAAGTGATTAAAAAGAGTCATTTAGAAGAAGGGATCCCTTCTAT
28826	P	A	A	CGCGCCGAGGAAGCTTCCCAAATACTGCTAC
28826	P	G	A	CGCGCCGAGGGAGCTTCCCAAATACTGCTAC
28826	T	A	A	TTTGGTAGCAGTATTTGGGAAGCTTTAGAAGGGATCCCTTCTTCTAAATGACTCTTTTTAATCACTTATTCCTTT
28826	T	G	A	TTTGGTAGCAGTATTTGGGAAGCTCTAGAAGGGATCCCTTCTTCTAAATGACTCTTTTTAATCACTTATTCCTTT
28826	IS	[AG]		aaaggaataagtgattaaaaagagtcatttagaagaagggtcccttcta[AG]agcttcccaaatactgctaccaaatcagctggctatcctattgtgctta
37838	I		A	GGCTTCAGCTACCAAGAGGCTTTTCAGGCCAGT
37838	P	C	A	CGCGCCGAGGCAGCCCACCTAGCTCC
37838	P	A	A	CGCGCCGAGGAAGCCCACCTAGCTCC
37838	T	C	A	ATTAGGAGCTAGGTGGGCTGCTGGCCTGAAAAGCCTCTTGGTAGCTGAAGCCTC
37838	T	A	A	ATTAGGAGCTAGGTGGGCTTCTGGCCTGAAAAGCCTCTTGGTAGCTGAAGCCTC
37838	IS	[CA]		ccctctgtgaaccaccgaggcttcagctaccaagaggctttcaggccag[CA]agcccacctagctcctaatccagggcccatctgtctccagagcagaga
37861	I		A	CCTGTGGTGACAGGGAGCTCAGGAGGTATCTAGT
37861	P	G	A	CGCGCCGAGGGCAGCCTATTCCATTTTAAGTAG
37861	P	C	A	CGCGCCGAGGCCAGCCTATTCCATTTTAAGTAGC
37861	T	G	A	CAGAGCTACTTAAAATGGAATAGGCTGCCTAGATACCTCCTGAGCTCCCTGTCACCACAGGTG
37861	T	C	A	CAGAGCTACTTAAAATGGAATAGGCTGGCTAGATACCTCCTGAGCTCCCTGTCACCACAGGTG
37861	IS	[GC]		tctcctctgttcaccacctgtggtgacagggagctcaggaggtatctag[GC]cagcctatccatttaaglagctctgactattaaacaactctgtctcat
37919	I		A	GGAAAAAAAAAACTTGGTCATAGTCAAGTTTGATAAATACTGCAGTTGATA
37919	P	T	A	CGCGCCGAGGTGAGCAAAGCAGTACATTTTTAG
37919	P	C	A	CGCGCCGAGGCGAGCAAAGCAGTACATTTTTAG
37919	T	T	A	TAAACTAAAAATGTACTGCTTTGCTCAATCAACTGCAGTATTTATCAAACTTGACTATGACCAAGTTTTTTTTTTCC
37919	T	C	A	TAAACTAAAAATGTACTGCTTTGCTCGATCAACTGCAGTATTTATCAAACTTGACTATGACCAAGTTTTTTTTTTCC
37919	IS	[TC]		ggaaaaaaaaaaactiggtcatagtcaagtttgataaatactgcagttgat[TC]gagcaaagcagtacatttttagtttaaaaaattaaaaagatgtaactatg
38003	I		S	CGTTTGCATTTTGCTGGAGGCAACATGTTTATAAAACTTGATGCC
38003	P	C	S	CGCGCCGAGGGTCTCACCTATATTCTGGGTCC
38003	P	A	S	CGCGCCGAGGTTCTCACCTATATTCTGGGTCC
38003	T	C	S	GTTAGGACCCAGAATATAGGTGAGACGCATCAAGTTTTATAAACATGTTGCCTCCAGCAAAATGCAAACGCC
38003	T	A	S	GTTAGGACCCAGAATATAGGTGAGAAGCATCAAGTTTTATAAACATGTTGCCTCCAGCAAAATGCAAACGCC
38003	IS	[CA]		agtgcattaaaatactgtaaggttagttaggacccagaatatagglgagal[CA]gcatcaagtttctataaacatgttgcctccagcaaaatgcaaacgccccac
38025	I		A	CCGTGAAAACACATAGAGCAAGCTCTCCCAAGAGCTA
38025	P	C	A	CGCGCCGAGGCGTAGAATTATTGAAGGATCTGATTTTCV
38025	P	T	A	CGCGCCGAGGTGTAGAATTATTGAAGGATCTGATTTTCV
38025	T	C	A	TAATGAAAATCAGATCCTTCAATAATTCTACGAGCTCTTGGGAGAGCTTGCTCTATGTGTTTTCACGGAT
38025	T	T	A	TAATGAAAATCAGATCCTTCAATAATTCTACAAGCTCTTGGGAGAGCTTGCTCTATGTGTTTTCACGGAT
38025	IS	[CT]		gaacagaaatcaatccgtgaaaacacatagagcaagctctcccaagagct[CT]gtagaattattgaaggatctgatttcattatccacagagcctgaccata
39532	I		S	TCTCCTGAATCTAGTTTTTAATATAGCTCACCAACACGAACACAATGCTATACT
39532	P	T	S	CGCGCCGAGGAGCGAGAGTTAAATTATGAAAGAY
39532	P	C	S	ATGACGTGGCAGACGGCGAGAGTTAAATTATGAAAGY
39532	T	T	S	GAAATCTTTCATAATTTAACTCTCGCTGTATAGCATTGTGTTCGTGTTGGTGAGCTATATTAAAAACTAGATTCAGGAG ACT
39532	T	C	S	GAAATCTTTCATAATTTAACTCTCGCCGTATAGCATTGTGTTCGTGTTGGTGAGCTATATTAAAAACTAGATTCAGGAG ACT
39532	IS	[TC]		ACAAGAGGAGAGTGAAGAGGAAGAGGTATACTAGGAAATCTTTCATAATTTAACTCTCGC[TC]GTATAGCATTGTGTTC GTGTTGGTGAGCTATATTAAAAACTAGATTCAGGAGACTCCAAA
40556	I		A	GAGATTCACAGTCCTCCCTCCCCAGGTAAGTA
40556	P	T	A	CGCGCCGAGGTGGCCCTGAATCCAGY
40556	P	C	A	ATGACGTGGCAGACCGGCCCTGAATCCAY
40556	T	T	A	ATTCCTGGATTCAGGGCCAACTTACCTGGGGAGGGAGGACTGTGAATCTCAG
40556	T	C	A	ATTCCTGGATTCAGGGCCGACTTACCTGGGGAGGGAGGACTGTGAATCTCAG
40556	IS	[TC]		CCAGGTCACAGAAACACCATCACCCTTCTGAGATTCACAGTCCTCCCTCCCCAGGTAAGT[TC]GGCCCTGAATCCAGG AATCAGCCAGCCCTAGGACTTTTGCCCTGTCCCAGGCCAAGGTAT
43013	I		A	CCAGTCTTAATTATCCCGCAATTTTCATTTCCAGATCTTCCAGAAGT
43013	P	G	A	ATGACGTGGCAGACGGGTGCCTCCGGY
43013	P	A	A	CGCGCCGAGGAGGTGCCTCCGGY
43013	T	G	A	CCACCCGGAGGCACCCCTTCTGGAAGATCTGGAAATGAAAATTGCGGGATAATTAAGACTGGCT
43013	T	A	A	CCACCCGGAGGCACCTCTTCTGGAAGATCTGGAAATGAAAATTGCGGGATAATTAAGACTGGCT
43013	IS	[GA]		ACCTTTATCTTAAGCCAGTCTTAATTATCCCGCAATTTTCATTTCCAGATCTTCCAGAAG[GA]GGTGCCTCCGGGTGGG AAAGATGCAGGGTCTCGCCACTCGTAGGTTAGCACATAGCATGC
45383	I		S	CTTCCATTTTGAATCCTGGGCACGATTCCTGTCTTGGT
45383	P	G	S	CGCGCCGAGGCTGAAACAGATGTGATTTTGGGY
45383	P	T	S	CGCGCCGAGGATGAAACAGATGTGATTTTGGGAY
45383	T	G	S	CATGTCCCAAAATCACATCTGTTTCAGCCAAGACAGGAATCGTGCCCAGGATTCAAAATGGAAGGG
45383	T	T	S	CATGTCCCAAAATCACATCTGTTTCATCCAAGACAGGAATCGTGCCCAGGATTCAAAATGGAAGGG
45383	IS	[GT]		GCCTCCATATTATAAGATTTTGTACATGTCCCAAAATCACATCTGTTTCA[GT]CCAAGACAGGAATCGTGCCCAGGATT CAAAATGGAAGGGAAAGTTTAAAT
45400	I		A	CCCCACACCTCCTCTATTTTAGCATATTTTCCAGTTGATTGCAAATGA
45400	P	T	A	CGCGCCGAGGTGTGCTCACTCATCTTTTCC
45400	P	C	A	CGCGCCGAGGCGTGCTCACTCATCTTTTCC
45400	T	T	A	GGGGGGAAAAGATGAGTGAGCACACATTTGCAATCAACTGGAAAATATGCTAAAATAGAGGAGGTGTGGGGTG
45400	T	C	A	GGGGGGAAAAGATGAGTGAGCACGCATTTGCAATCAACTGGAAAATATGCTAAAATAGAGGAGGTGTGGGGTG
45400	IS	[TC]		GCACCCCACACCTCCTCTATTTTAGCATATTTTCCAGTTGATTGCAAATG[TC]GTGCTCACTCATCTTTTCCCCCCACT AGACAGTAAGCCTGATCTTGCTCA
45437	I		S	CATTTTCCTGTTCATTTAAACCTAAAGGAATACTCACATCAGCCGCAAT
45437	P	G	S	CGCGCCGAGGCAGGTGACTTTGTTGTACTGG
45437	P	C	S	CGCGCCGAGGGAGGTGACTTTGTTGTACTGG
45437	T	G	S	AGCACCAGTACAACAAAGTCACCTGTTGCGGCTGATGTGAGTATTCCTTTAGGTTTAAATGAACAGGAAAATGGA
45437	T	C	S	AGCACCAGTACAACAAAGTCACCTCTTGCGGCTGATGTGAGTATTCCTTTAGGTTTAAATGAACAGGAAAATGGA

FIGURE 129D

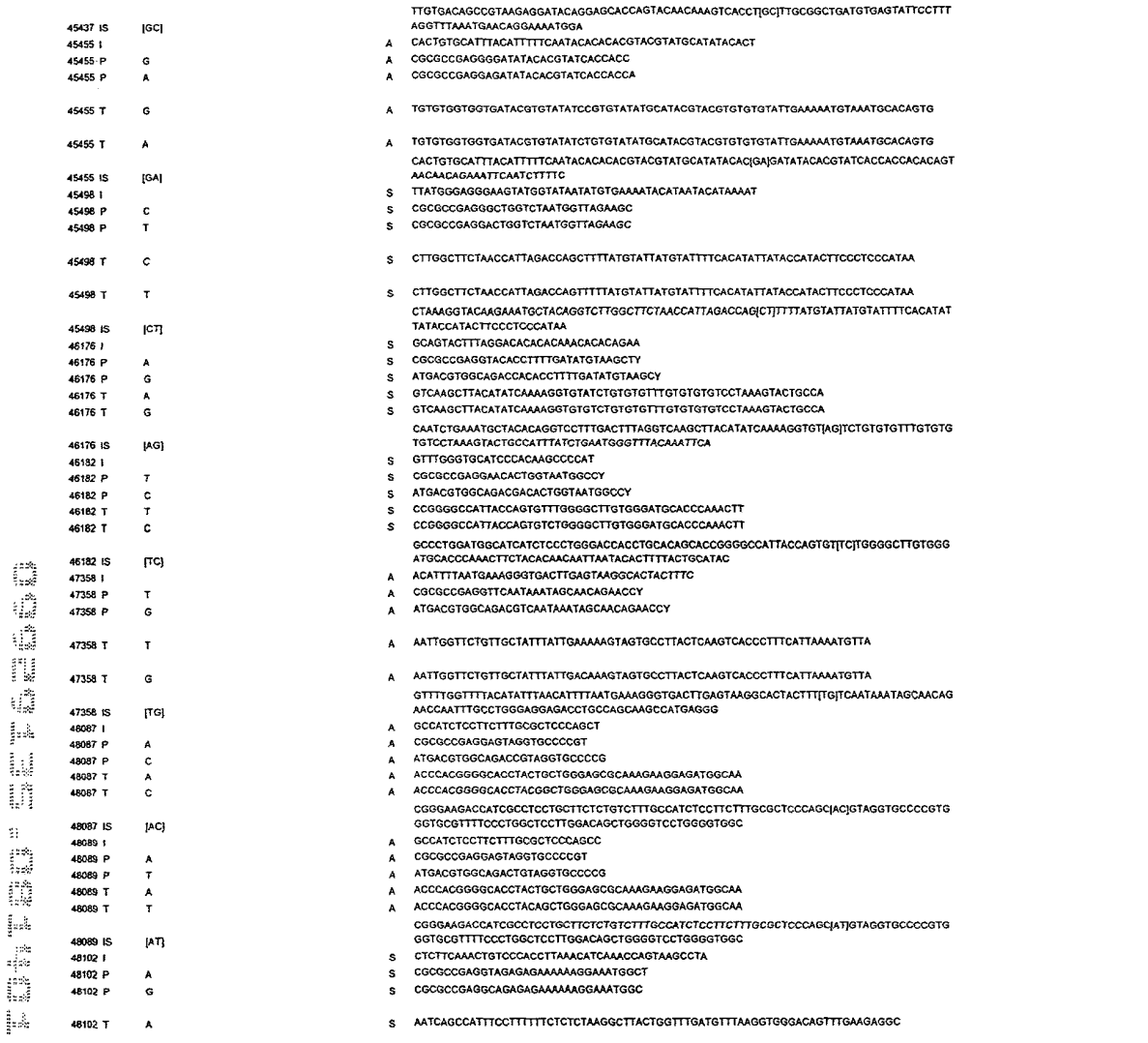

TTGTGACAGCCGTAAGAGGATACAGGAGCACCAGTACAACAAAGTCACCT[GC]TTGCGGCTGATGTGAGTATTCCTTT
45437 IS [GC] AGGTTTAAATGAACAGGAAAATGGA
45455 I A CACTGTGCATTTACATTTTTCAATACACACACGTACGTATGCATATACACT
45455 P G A CGCGCCGAGGGGATATACACGTATCACCACC
45455 P A A CGCGCCGAGGAGATATACACGTATCACCACCA
45455 T G A TGTGTGGTGGTGATACGTGTATATCCGTGTATATGCATACGTACGTGTGTGTATTGAAAAATGTAAATGCACAGTG
45455 T A A TGTGTGGTGGTGATACGTGTATATCTGTGTATATGCATACGTACGTGTGTGTATTGAAAAATGTAAATGCACAGTG
CACTGTGCATTTACATTTTTCAATACACACACGTACGTATGCATATACAC[GA]GATATACACGTATCACCACCACACAGT
45455 IS [GA] AACAACAGAAATTCAATCTTTTC
45498 I S TTATGGGAGGGAAGTATGGTATAATATGTGAAAATACATAATACATAAAAT
45498 P C S CGCGCCGAGGGCTGGTCTAATGGTTAGAAGC
45498 P T S CGCGCCGAGGACTGGTCTAATGGTTAGAAGC
45498 T C S CTTGGCTTCTAACCATTAGACCAGCTTTTATGTATTATGTATTTTCACATATTATACCATACTTCCCTCCCATAA
45498 T T S CTTGGCTTCTAACCATTAGACCAGTTTTTATGTATTATGTATTTTCACATATTATACCATACTTCCCTCCCATAA
CTAAAGGTACAAGAAATGCTACAGGTCTTGGCTTCTAACCATTAGACCAG[CT]TTTTATGTATTATGTATTTTCACATAT
45498 IS [CT] TATACCATACTTCCCTCCCATAA
46176 I S GCAGTACTTTAGGACACACACAAACACACAGAA
46176 P A S CGCGCCGAGGTACACCTTTTGATATGTAAGCTY
46176 P G S ATGACGTGGCAGACCACACCTTTTGATATGTAAGCY
46176 T A S GTCAAGCTTACATATCAAAAGGTGTATCTGTGTGTTTGTGTGTGTCCTAAAGTACTGCCA
46176 T G S GTCAAGCTTACATATCAAAAGGTGTGTCTGTGTGTTTGTGTGTGTCCTAAAGTACTGCCA
CAATCTGAAATGCTACACAGGTCCTTTGACTTTAGGTCAAGCTTACATATCAAAAGGTGT[AG]TCTGTGTGTTTGTGTG
46176 IS [AG] TGTCCTAAAGTACTGCCATTTATCTGAATGGGTTTACAAATTCA
46182 I S GTTTGGGTGCATCCCACAAGCCCCAT
46182 P T S CGCGCCGAGGAACACTGGTAATGGCCY
46182 P C S ATGACGTGGCAGACGACACTGGTAATGGCCY
46182 T T S CCGGGGCCATTACCAGTGTTTGGGGCTTGTGGGATGCACCCAAACTT
46182 T C S CCGGGGCCATTACCAGTGTCTGGGGCTTGTGGGATGCACCCAAACTT
GCCCTGGATGGCATCATCTCCCTGGGACCACCTGCACAGCACCGGGGCCATTACCAGTGT[TC]TGGGGCTTGTGGG
46182 IS [TC] ATGCACCCAAACTTCTACACAACAATTAATACACTTTTACTGCATAC
47358 I A ACATTTTAATGAAAGGGTGACTTGAGTAAGGCACTACTTTC
47358 P T A CGCGCCGAGGTTCAATAAATAGCAACAGAACCY
47358 P G A ATGACGTGGCAGACGTCAATAAATAGCAACAGAACCY
47358 T T A AATTGGTTCTGTTGCTATTTATTGAAAAAGTAGTGCCTTACTCAAGTCACCCTTTCATTAAAATGTTA
47358 T G A AATTGGTTCTGTTGCTATTTATTGACAAAGTAGTGCCTTACTCAAGTCACCCTTTCATTAAAATGTTA
GTTTTGGTTTTACATATTTAACATTTTAATGAAAGGGTGACTTGAGTAAGGCACTACTTT[TG]TCAATAAATAGCAACAG
47358 IS [TG] AACCAATTTGCCTGGGAGGAGACCTGCCAGCAAGCCATGAGGG
48087 I A GCCATCTCCTTCTTTGCGCTCCCAGCT
48087 P A A CGCGCCGAGGAGTAGGTGCCCCGT
48087 P C A ATGACGTGGCAGACCGTAGGTGCCCCG
48087 T A A ACCCACGGGGCACCTACTGCTGGGAGCGCAAAGAAGGAGATGGCAA
48087 T C A ACCCACGGGGCACCTACGGCTGGGAGCGCAAAGAAGGAGATGGCAA
CGGGAAGACCATCGCCTCCTGCTTCTCTGTCTTTGCCATCTCCTTCTTTGCGCTCCCAGC[AC]GTAGGTGCCCCGTG
48087 IS [AC] GGTGCGTTTTCCCTGGCTCCTTGGACAGCTGGGGTCCTGGGGTGGC
48089 I A GCCATCTCCTTCTTTGCGCTCCCAGCC
48089 P A A CGCGCCGAGGAGTAGGTGCCCCGT
48089 P T A ATGACGTGGCAGACTGTAGGTGCCCCG
48089 T A A ACCCACGGGGCACCTACTGCTGGGAGCGCAAAGAAGGAGATGGCAA
48089 T T A ACCCACGGGGCACCTACAGCTGGGAGCGCAAAGAAGGAGATGGCAA
CGGGAAGACCATCGCCTCCTGCTTCTCTGTCTTTGCCATCTCCTTCTTTGCGCTCCCAGC[AT]GTAGGTGCCCCGTG
48089 IS [AT] GGTGCGTTTTCCCTGGCTCCTTGGACAGCTGGGGTCCTGGGGTGGC
48102 I S CTCTTCAAACTGTCCCACCTTAAACATCAAACCAGTAAGCCTA
48102 P A S CGCGCCGAGGTAGAGAGAAAAAAGGAAATGGCT
48102 P G S CGCGCCGAGGCAGAGAGAAAAAAGGAAATGGC
48102 T A S AATCAGCCATTTCCTTTTTTCTCTCTAAGGCTTACTGGTTTGATGTTTAAGGTGGGACAGTTTGAAGAGGC
48102 T G S AATCAGCCATTTCCTTTTTTCTCTCTGAGGCTTACTGGTTTGATGTTTAAGGTGGGACAGTTTGAAGAGGC
48102 IS [AG] FLJ23059
48121 I S CCTGCAGTGCATTCCTGTAAAAGTAGTGTGGAGATCCTA
48121 P A S CGCGCCGAGGTCTACTGCCACTGTGATTTAC
48121 P G S CGCGCCGAGGCCTACTGCCACTGTGATTTAC
48121 T A S TAACGTAAATCACAGTGGCAGTAGAAGGATCTCCACACTACTTTTACAGGAATGCACTGCAGGTA
48121 T G S TAACGTAAATCACAGTGGCAGTAGGAGGATCTCCACACTACTTTTACAGGAATGCACTGCAGGTA
48121 IS [AG]
48125 I S AGCAGATGGGAAACAACTGATTTCCCAGGACAGTGAAAA
48125 P G S CGCGCCGAGGCTTAAGTTCCATGGTGAAGAAACA
48125 P A S CGCGCCGAGGTTTAAGTTCCATGGTGAAGAAACA
48125 T G S TCATTGTTTCTTCACCATGGAACTTAAGTTTCACTGTCCTGGGAAATCAGTTGTTTCCCATCTGCTTT
48125 T A S TCATTGTTTCTTCACCATGGAACTTAAATTTCACTGTCCTGGGAAATCAGTTGTTTCCCATCTGCTTT
48125 IS [GA]
49375 I A GCTACCCTGCAACGGAAGGAAAAGTTGACGTAA
49375 P T A CGCGCCGAGGTGAACCGAAATTACTGGGY
49375 P C A ATGACGTGGCAGACCGAACCGAAATTACTGGGY
49375 T T A GCTTCCCAGTAATTTCGGTTCATACGTCAACTTTTCCTTCCGTTGCAGGGTAGCGG
49375 T C A GCTTCCCAGTAATTTCGGTTCGTACGTCAACTTTTCCTTCCGTTGCAGGGTAGCGG
GATTGTCTTTCTGGTGGATTTCTTCGCCGCTACCCTGCAACGGAAGGAAAAGTTGACGTA[TC]GAACCGAAATTACTG
49375 IS [TC] GGAAGCAAAGCCTGCCGCTATATGGTGTTAACAGAAGAAACAAAA
50821 I S TCATCAGCCATCAGCTCCCTTAAGGTGACCTGA
50821 P A S CGCGCCGAGGTAGCCTCCTTTGTGCCY
50821 P G S ATGACGTGGCAGACCAGCCTCCTTTGTGCY
50821 T A S CCAGGGCACAAAGGAGGCTACAGGTCACCTTAAGGGAGCTGATGGCTGATGAGA
50821 T G S CCAGGGCACAAAGGAGGCTGCAGGTCACCTTAAGGGAGCTGATGGCTGATGAGA
GATGCTTCTGAGAGAGAGCCTCTACACAATCCCAAATGCCCCCAGGGCACAAAGGAGGCT[AG]CAGGTCACCTTAAG
50821 IS [AG] GGAGCTGATGGCTGATGAGATGTCTTCAGGCTGTGCATCTCAGATC
51150 I S CAGGTTGAACAGGACATCCCCCAGGACTTA
51150 P G S ATGACGTGGCAGACCGGATGAGGTTAACACAAGY
51150 P A S CGCGCCGAGGTGGATGAGGTTAACACAAGY

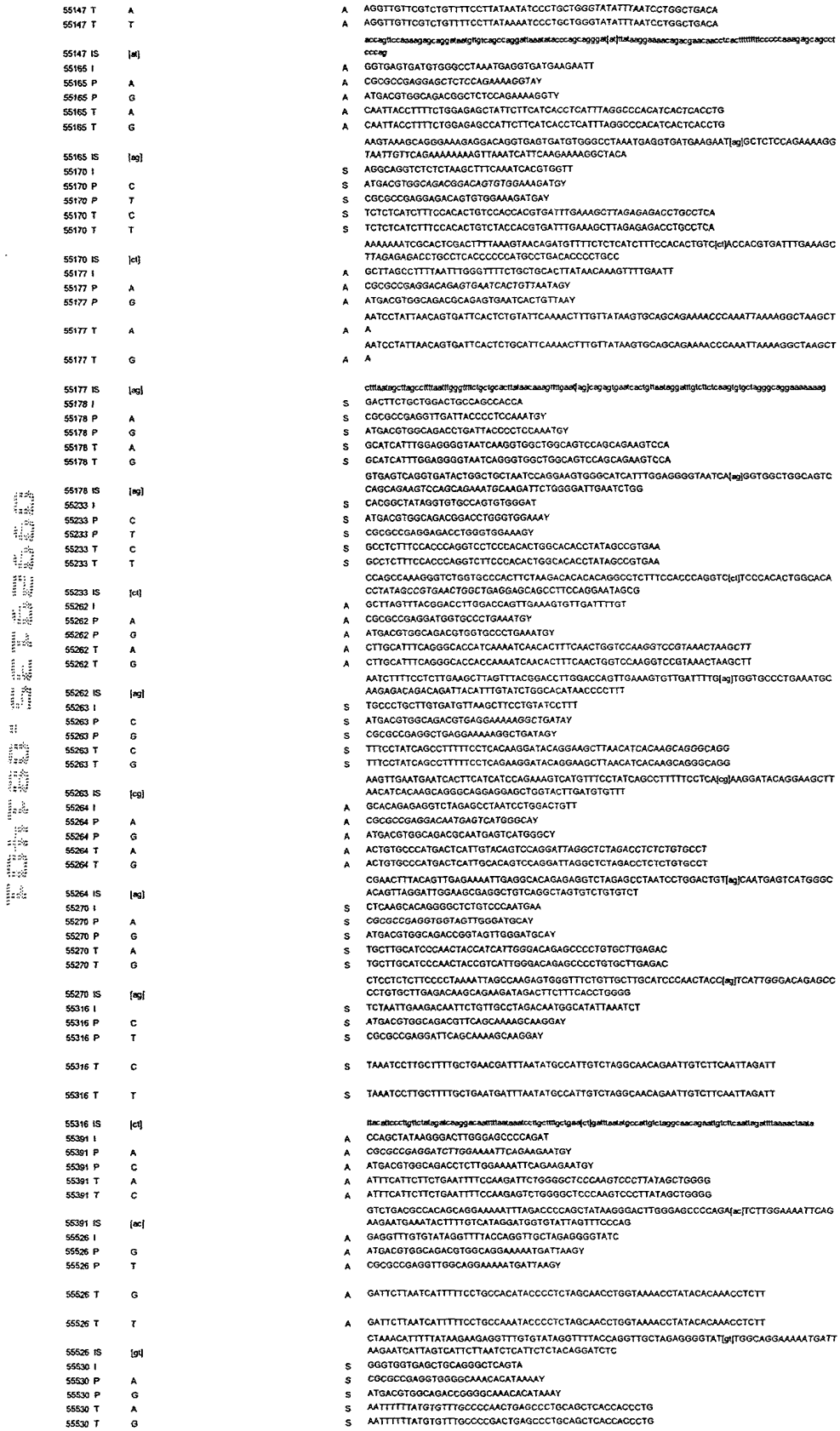
FIGURE 129D


51150 T G S AACACTTGTGTTAACCTCATCCGAAGTCCTGGGGGATGTCCTGTTCAACCTGCC
51150 T A S AACACTTGTGTTAACCTCATCCAAAGTCCTGGGGGATGTCCTGTTCAACCTGCC
51150 IS [GA] AGCTTTACAACATGCTATGAATTATCCTCCTCTGTGTTAACACTTGTGTTAACCTCATCC[GA]AAGTCCTGGGGGATGT CCTGTTCAACCTGCCATTTCACCCATAGTAGAGTTGGTCCACAG
51552 I S GGCAGAGCCTGTGAATTGAGGCACTACGCC
51552 P C S CGCGCCGAGGGATGAGAACGGCATGTTTATG
51552 P A S CGCGCCGAGGTATGAGAACGGCATGTTTATGG
51552 T C S ATTTCCATAAACATGCCGTTCTCATCGCGTAGTGCCTCAATTCACAGGCTCTGCCTT
51552 T A S ATTTCCATAAACATGCCGTTCTCATAGCGTAGTGCCTCAATTCACAGGCTCTGCCTT
51552 IS [CA] ttgctcctctgtggtccaaatttattccataaacatgccgttctcat[CA]gcgtagtgcctcaattcacaggctctgccttcctccagcctccgtgtga
51553 I A GCAATCCCAAATATAGCCTGAAAAGTGAAACCCACCCCT
51553 P C A CGCGCCGAGGCGCCTTGCACACTCTG
51553 P A A CGCGCCGAGGAGCCTTGCACACTCTG
51553 T C A GGAGCAGAGTGTGCAAGGCGGGGGTGGGTTTCACTTTTCAGGCTATATTTGGGATTGCTT
51553 T A A GGAGCAGAGTGTGCAAGGCTGGGGTGGGTTTCACTTTTCAGGCTATATTTGGGATTGCTT
51553 IS [CA] gtaaaacctcaagcaatccaaatatagcctgaaaagtgaaacccaccc[CA]gccttgcacactctgctcccttgtcccagagggaagcagacactcggatg
51554 I A TCAACACTAAAATTCTTTGAATCACAGAAACTTGAAATTCCTTGAGAAATT
51554 P G A CGCGCCGAGGGAAATGAATGGAAATGTATTTGCCT
51554 P A A CGCGCCGAGGAAAATGAATGGAAATGTATTTGCCT
51554 T G A TGAAAGGCAAATACATTTCCATTCATTTCATTTCTCAAGGAATTTCAAGTTTCTGTGATTCAAAGAATTTTAGTGTTGA
51554 T A A TGAAAGGCAAATACATTTCCATTCATTTTATTTCTCAAGGAATTTCAAGTTTCTGTGATTCAAAGAATTTTAGTGTTGA
51554 IS [GA] tcaacactaaaattcttgaatcacagaaactgaaattcctgagaaat[GA]aaatgaatggaaatgtatttgccttcattgccctaacagtaatacgaag
51555 I S GCCGGCCTGGCAGTGCGTCTGA
51555 P G S CGCGCCGAGGCGGCCATGCCAAGC
51555 P A S CGCGCCGAGGTGGCCATGCCAAGC
51555 T G S TGTGGCTTGGCATGGCCGCAGACGCACTGCCAGGCCGGCAG
51555 T A S TGTGGCTTGGCATGGCCACAGACGCACTGCCAGGCCGGCAG
51555 IS [GA] ccgacacctctgcagctcgaccacacagggcttgtggctgggcatggcc[GA]ctagacgcactgccaggccggcagcctttcgccaagaactggatctcctccg
51800 I A CTTTCAGTTTATTCACAGAGTTGCACGTCTATCACCAGAGTCCATTC
51800 P INS A CGCGCCGAGGTTATTTACTTATTTAGAGATGGAGTCTCAC
51800 P DEL A CGCGCCGAGGTATTTACTTATTTAGAGATGGAGTCTCAC
51800 T INS A CAGAGTGAGACTCCATCTCTAAATAAGTAAATAAAATGGACTCTGGTGATAGACGTGCAACTCTGTGAATAAACTGAAA GCC
51800 T DEL A CAGAGTGAGACTCCATCTCTAAATAAGTAAATAAATGGACTCTGGTGATAGACGTGCAACTCTGTGAATAAACTGAAAG CC
51800 IS [-T] TGGCTTTCAGTTTATTCACAGAGTTGCACGTCTATCACCAGAGTCCATTT[- TJATTTACTTATTTAGAGATGGAGTCTCACTCTGTCACCCAGGCTGGAGTGC
51890 I A TTCTGTCTACTGTGTTCTGCAAAAGGCTGGGAAAAGAAT
51890 P G A ATGACGTGGCAGACGAGGACTCTTTTTTCTTTTTTCCY
51890 P A A CGCGCCGAGGAAGGACTCTTTTTTCTTTTTTCCY
51890 T G A AACTGGAAAAAAGAAAAAAGAGTCCTCTTCTTTTCCCAGCCTTTTGCAGAACACAGTAGACAGAACT
51890 T A A AACTGGAAAAAAGAAAAAAGAGTCCTTTTCTTTTCCCAGCCTTTTGCAGAACACAGTAGACAGAACT
51890 IS [GA] AAGTACCAATTGAAGGTGGCAGTTCTGTCTACTGTGTTCTGCAAAAGGCTGGGAAAAGAA[GA]AGGACTCTTTTTTCTT TTTTCCAGTTGAAATAATTTAGACTAGTTTTCTCCCTAATTGCT
52288 I S GCCCCAGCCGCGAGTGCGA
52288 P A S CGCGCCGAGGTCCCCGGAATCAGCY
52288 P G S ATGACGTGGCAGACCCCCCGGAATCAGCY
52288 T A S GCCGGCTGATTCCGGGGACGCACTCGCGGCTGGGGCAG
52288 T G S GCCGGCTGATTCCGGGGGCGCACTCGCGGCTGGGGCAG
52288 IS [AG] AGGCGCGCCCCACTGCGCAGGTGCAAATGGTAGGGGTTGTCGTGCCGGCTGATTCCGGGG[AG]CGCACTCGCGGC TGGGGCAGACCGCGGTCGCGTAGCTGACGTCATCGCCGTGCGCTGCCA
52777 I S GCTCAAAGTCTGCAAATGGGGCTCACTCT
52777 P C S ATGACGTGGCAGACGGTGGCGTGGTTGY
52777 P T S CGCGCCGAGGAGTGGCGTGGTTGCY
52777 T C S CAGAGCAACCACGCCACCGAGTGAGCCCCATTTGCAGACTTTGAGCAA
52777 T T S CAGAGCAACCACGCCACTGAGTGAGCCCCATTTGCAGACTTTGAGCAA
52777 IS [CT] TTGTGACCTCCAGCCTCAGCAGACACCTCCACACTGCGCAGGGCAGAGCAACCACGCCAC[CT]GAGTGAGCCCCATT TGCAGACTTTGAGCAAATAATGATTGTGCACGTTGGATCATTTATT
53507 I A GGTCCTGGCCCCATCCCATGGTTCATA
53507 P C A ATGACGTGGCAGACCGTGGCTGAACTCTTCY
53507 P T A CGCGCCGAGGTGTGGCTGAACTCTTCAY
53507 T C A TGGCTGAAGAGTTCAGCCACGATGAACCATGGGATGGGGCCAGGACCCA
53507 T T A TGGCTGAAGAGTTCAGCCACAATGAACCATGGGATGGGGCCAGGACCCA
53507 IS [CT] GGCCATCTTTGGCTTTGTGGCCTTCTTTGAAGTGGGTCCTGGCCCCATCCCATGGTTCAT[CT]GTGGCTGAACTCTTC AGCCAGGGTCCACGTCCAGCTGCCATTGCCGTTGCAGGCTTCTCC SLC2A1
54769 I S CATGGGCACAGCAAAAGGAATGATGAAATCATCTATGATTCTTACTT
54769 P C S ATGACGTGGCAGACGGGATAGGTGGAACCAY
54769 P T S CGCGCCGAGGAGGATAGGTGGAACCAAAY
54769 T C S TGTGTTTGGTTCCACCTATCCCAGTAAGAATCATAGATGATTTCATCATTCCTTTTGCTGTGCCCATGGA
54769 T T S TGTGTTTGGTTCCACCTATCCTAGTAAGAATCATAGATGATTTCATCATTCCTTTTGCTGTGCCCATGGA
54769 IS [ct] gtgctgataggcccacacccctgttttggtcacatatgtgttgggttccacctatcc[ct]agtaagaatcatagatgatttcatcattccttttgctgtgcccatggatticicccctcc
54795 I A GTAGGGGGAAGGCTCAGAGATGGGCAAC
54795 P G A ATGACGTGGCAGACGAATCCTCAGGGGCTY
54795 P T A CGCGCCGAGGTAATCCTCAGGGGCTCY
54795 T G A AGGGGAGCCCCTGAGGATTCTTGCCCATCTCTGAGCCTTCCCCCTACCA
54795 T T A AGGGGAGCCCCTGAGGATTATTGCCCATCTCTGAGCCTTCCCCCTACCA
54795 IS [gt] GGCCTCCAGCTCCATCTGGGCCAGAGGTCAGTGGTAGGGGGAAGGCTCAGAGATGGGCAA[gt]AATCCTCAGGGGCT CCCCTAGAGACCCTCCAAAATGCTCCACTCATTGCAGAGGGAGGGC
54848 I S CACTGTGGCGTCTGCCTTTGAAAGTCAGCC
54848 P A S CGCGCCGAGGTGCCTGTTTTTCAGACTCY
54848 P T S ATGACGTGGCAGACAGCCTGTTTTTCAGACTCY
54848 T A S TTATGAGTCTGAAAAACAGGCAGCTGACTTTCAAAGGCAGACGCCACAGTGCC
54848 T T S TTATGAGTCTGAAAAACAGGCTGCTGACTTTCAAAGGCAGACGCCACAGTGCC
54848 IS [at] TCGCCTGGACAGAATAATGAAACACTTCTTACAGGCAATTTATGAGTCTGAAAAACAGGC[at]GCTGACTTTCAAAGGCA GACGCCACAGTGCCAGCAGGTTTCTCTCAAGGTCAAGGCAGAG
54851 I A GCCTGCATCTGAAGGGGAACTTTCATGAAATACAGCTA
54851 P C A ATGACGTGGCAGACCAGGTATTTGATGTCGCCY
54851 P T A CGCGCCGAGGTAGGTATTTGATGTCGCCTY

FIGURE 129D


54851 T C A GTCCAGGCGACATCAAATACCTGAGCTGTATTTCATGAAAGTTCCCCTTCAGATGCAGGCCA
54851 T T A GTCCAGGCGACATCAAATACCTAAGCTGTATTTCATGAAAGTTCCCCTTCAGATGCAGGCCA
ACAGAAATGCTACCTACCCTGTGGCCTGCATCTGAAGGGGAACTTTCATGAAATACAGCT[ct]AGGTATTTGATGTCGC
54851 IS [ct] CTGGACAGAATAATGAAACACTTCTTACAGGCAATTTATGAGTC
54858 I A GCTTTCTAAGCTGTAGAAGGAAGGTCTTCAAATTTCTTCAT
54858 P A A CGCGCCGAGGATGAAGTCTTACAAGCTGTCY
54858 P C A ATGACGTGGCAGACCTGAAGTCTTACAAGCTGTCY
54858 T A A ACAAGACAGCTTGTAAGACTTCATTGAAGAAATTTGAAGACCTTCCTTCTACAGCTTAGAAAGCTA
54858 T C A ACAAGACAGCTTGTAAGACTTCAGTGAAGAAATTTGAAGACCTTCCTTCTACAGCTTAGAAAGCTA
TTGGGAATGGATTCATGTTAGCTTTCTAAGCTGTAGAAGGAAGGTCTTCAAATTTCTTCA[ac]TGAAGTCTTACAAGCTG
54858 IS [ac] TCTTGTCCTATTTCTTGGATTTCATTCTTCCAACAAAACCCTT
54867 I A GCATACCTGGACACCAGAGACAAGAAAACTTAGATGATGCT
54867 P A A CGCGCCGAGGATAATAGAGAGGTTGCTGAGY
54867 P G A ATGACGTGGCAGACGTAATAGAGAGGTTGCTGAGY
54867 T A A CTGGCTCAGCAACCTCTCTATTATGCATCATCTAAGTTTTCTTGTCTCTGGTGTCCAGGTATGCTT
54867 T G A CTGGCTCAGCAACCTCTCTATTACGCATCATCTAAGTTTTCTTGTCTCTGGTGTCCAGGTATGCTT
TGGTACTTTTCATTGGCCAAGCATACCTGGACACCAGAGACAAGAAAACTTAGATGATGC[ag]TAATAGAGAGGTTGCT
54867 IS [ag] GAGCCAGAAAATAGAGCAGAATGGAGAAGAGAGAATCTAGAGGG
54869 I S TTCTTCATTTGGGTTTGGTTTGGTTTTAGTTTTAGGGAGT
54869 P C S ATGACGTGGCAGACGAAGAAATAGTTGAAACTGTTTGTY
54869 P T S CGCGCCGAGGAAAGAAATAGTTGAAACTGTTTGTY
54869 T C S ATATACAAACAGTTTCAACTATTTCTTCCTCCCTAAAACTAAAACCAAACCAAACCCAAATGAAGAAAC
54869 T T S ATATACAAACAGTTTCAACTATTTCTTTCTCCCTAAAACTAAAACCAAACCAAACCCAAATGAAGAAAC
ACAAATTTTATCATAGGTCAAAATTATTTCTAAATATACAAACAGTTTCAACTATTTCTT[ct]CTCCCTAAAACTAAAACCA
54869 IS [ct] AACCAAACCCAAATGAAGAAACCTAAACTTCTTTTCATCTA
54938 I A GCGAGAGTTCTTCAAACCGTGCTTCATGAAAACAAAATTCAAAGATAAACA
54938 P C A ATGACGTGGCAGACCTAACACAGTCAGAAAGGCY
54938 P T A CGCGCCGAGGTTAACACAGTCAGAAAGGCY
54938 T C A ATGTGCCTTTCTGACTGTGTTAGGTTTATCTTTGAATTTTGTTTTCATGAAGCACGGTTTGAAGAACTCTCGCAC
54938 T T A ATGTGCCTTTCTGACTGTGTTAAGTTTATCTTTGAATTTTGTTTTCATGAAGCACGGTTTGAAGAACTCTCGCAC
AAAAAAAAGTGCGAGAGTTCTTCAAACCGTGCTTCATGAAAACAAAATTCAAAGATAAAC[ct]TAACACAGTCAGAAAGG
54938 IS [ct] CACATTTATTTTCTAAAATCTAACCTGGTATCAAGGAACTCTG
54943 I S GGGAAGGGATTGGTTGCAGAGGGACACAAAGC
54943 P A S CGCGCCGAGGTAATTTAGGGGAGTACTGGAAY
54943 P T S ATGACGTGGCAGACAAATTTAGGGGAGTACTGGAY
54943 T A S ACATTTCCAGTACTCCCCTAAATTACTTTGTGTCCCTCTGCAACCAATCCCTTCCCCC
54943 T T S ACATTTCCAGTACTCCCCTAAATTTCTTTGTGTCCCTCTGCAACCAATCCCTTCCCCC
caaagtatttgacaccaccaccatcaagtatatacaacatttccagtactcccctaaatt[at]cttgtgtcccctctgcaaccaatcccttccccgtatatttgatgtactactagaatgc
54943 IS [at] tatc
54944 I A TGGCCTCAGCACAAAGCAAGAGTCCC
54944 P A A CGCGCCGAGGAAGCCTAAACTTATATGACTCCY
54944 P T A ATGACGTGGCAGACTAGCCTAAACTTATATGACTCCY
54944 T A A CTGTGGAGTCATATAAGTTTAGGCTTGGACTCTTGCTTTGTGCTGAGGCCAAA
54944 T T A CTGTGGAGTCATATAAGTTTAGGCTAGGACTCTTGCTTTGTGCTGAGGCCAAA
gatcacccaacacctcacctgctttaatctttttggcctcagcacaaagcaagagtcc[at]agcctaaacttatatgactccacaggaagatgtaaggaggaagtctgtgtgtgaaaag
54944 IS [at] tatc
54959 I A GGTGGAGGATGGGGAGAGCTGTACACATCTT
54959 P A A CGCGCCGAGGATAGTCTACTTAGTGTGGATGTY
54959 P G A ATGACGTGGCAGACGTAGTCTACTTAGTGTGGATGY
54959 T A A CGACACATCCACACTAAGTAGACTATAGATGTGTACAGCTCTCCCCATCCTCCACCTT
54959 T G A CGACACATCCACACTAAGTAGACTACAGATGTGTACAGCTCTCCCCATCCTCCACCTT
ATGTGTCTAGAATGAAGTCTCCATGGGCAAGGTGGAGGATGGGGAGAGCTGTACACATCT[ag]TAGTCTACTTAGTGT
54959 IS [ag] GGATGTGTCGTACTAGTCCACACATTTGCTTCTTCGGTCATAATT
55016 I S ACATCAGTTCTCATGGCCCCCAAAGCAGTGT
55016 P C S ATGACGTGGCAGACGGATGGGGTTGTTCAAAAY
55016 P T S CGCGCCGAGGAGATGGGGTTGTTCAAAAGY
55016 T C S TGAACTTTTGAACAACCCCATCCCACTGCTTTGGGGGCCATGAGAACTGATGTGT
55016 T T S TGAACTTTTGAACAACCCCATCTCACTGCTTTGGGGGCCATGAGAACTGATGTGT
gagtggaatagatcagttccatcacctctcccactgaacttttgaacatcccccatc[ct]cactgcttgggggccatgagaactgatgtgtgcctctcaggaggagcatcaccagc
55016 IS [ct] atct
55047 I S AGAAGCCATGGAGAGCTAACCAAATTATAGAGAGGCTAGAAGAC
55047 P A S CGCGCCGAGGTTAAAATTTGCTGAATCACCAAY
55047 P T S ATGACGTGGCAGACATAAAATTTGCTGAATCACCAATY
55047 T A S AAACATTGGTGATTCAGCAAATTTTAATCTTCTAGCCTCTCTATAATTTGGTTAGCTCTCCATGGCTTCTCA
55047 T T S AAACATTGGTGATTCAGCAAATTTTATTCTTCTAGCCTCTCTATAATTTGGTTAGCTCTCCATGGCTTCTCA
GCAATCAGAAAGGTACAGGTCTCCAGGAAAAAGGAAACATTGGTGATTCAGCAAATTTTA[at]TCTTCTAGCCTCTCTAT
55047 IS [at] AATTTGGTTAGCTCTCCATGGCTTCTCAAGAATTCTAGAAGCA
55106 I A CATCTCCTTGGAGCCTGCTCTCTTCCCTTGATATCT
55106 P A A CGCGCCGAGGACTTCCCTAATTCCCTTCY
55106 P G A ATGACGTGGCAGACGCTTCCCTAATTCCCTTCY
55106 T A A GATGGGAAGGGAATTAGGGAAGTGATATCAAGGGAAGAGAGCAGGCTCCAAGGAGATGGG
55106 T G A GATGGGAAGGGAATTAGGGAAGCGATATCAAGGGAAGAGAGCAGGCTCCAAGGAGATGGG
CTCACTGTGGTCCTGCTGATCAACCCATCTCCTTGGAGCCTGCTCTCTTCCCTTGATATC[ag]CTTCCCTAATTCCCTT
55106 IS [ag] CCCATCTCTGCCTGCTCCTGCTCAGTTTTCTCTTAGGGCTTCTC
55108 I A CCATGGAAACAGATGCCATCAAGGGGATGCAC
55108 P A A CGCGCCGAGGACCTCCTTTCTGCCTGY
55108 P T A ATGACGTGGCAGACTCCTCCTTTCTGCCTGY
55108 T A A AGGGCAGGCAGAAAGGAGGTTGCATCCCCTTGATGGCATCTGTTTCCATGGTT
55108 T T A AGGGCAGGCAGAAAGGAGGATGCATCCCCTTGATGGCATCTGTTTCCATGGTT
agaactctgctcctttctgggggctgtaaccatggaaacagatgccatcaaggggatgca[at]cctcctttctgcctgccctcactccgcaggtgctcacctctaggtggtgctctccc
55108 IS [at] tcc
55129 I S CAAGGTGGGTACAATCCCCCTTCTTAACTCTTAACAATGCT
55129 P C S ATGACGTGGCAGACGAGCTCTGATTTTCCTATGTY
55129 P T S CGCGCCGAGGAAGCTCTGATTTTCCTATGTCY
55129 T C S ATTTGACATAGGAAAATCAGAGCTCGCATTGTTAAGAGTTAAGAAGGGGGATTGTACCCACCTTGTT
55129 T T S ATTTGACATAGGAAAATCAGAGCTTGCATTGTTAAGAGTTAAGAAGGGGGATTGTACCCACCTTGTT
tgacaaccaagcatcataacgacctacgaagacaggatttgacataggaaaatcagagct[ct]gcattgttaagagttaagaggggatttgtacccacctttgttcctccacctgttc
55129 IS [ct] acaaa
55147 I A TCAGCCAGGATTAAATATACCCAGCAGGGATC
55147 P A A CGCGCCGAGGATTATAAGGAAAACAGACGAACAY
55147 P T A ATGACGTGGCAGACTTTATAAGGAAAACAGACGAACAY

FIGURE 129D


55147 T A A AGGTTGTTCGTCTGTTTTCCTTATAATATCCCTGCTGGGTATATTTAATCCTGGCTGACA
55147 T T A AGGTTGTTCGTCTGTTTTCCTTATAAAATCCCTGCTGGGTATATTTAATCCTGGCTGACA
55147 IS [at] accagttccaaaagagcaggatttaatgtgtgtcagccaggattaaatatacccagcagggat[at]ttataaggaaaacagacgaacaacctcacttttttttccccccaaagagcagccagcct cccag
55165 I A GGTGAGTGATGTGGGCCTAAATGAGGTGATGAAGAATT
55165 P A A CGCGCCGAGGAGCTCTCCAGAAAAGGTAY
55165 P G A ATGACGTGGCAGACGGCTCTCCAGAAAAGGTY
55165 T A A CAATTACCTTTTCTGGAGAGCTATTCTTCATCACCTCATTTAGGCCCACATCACTCACCTG
55165 T G A CAATTACCTTTTCTGGAGAGCCATTCTTCATCACCTCATTTAGGCCCACATCACTCACCTG
55165 IS [eg] AAGTAAAGCAGGGAAAAGAGGACAGGTGAGTGATGTGGGCCTAAATGAGGTGATGAAGAAT[ag]GCTCTCCAGAAAAGG TAATTGTTCAGAAAAAAAAGTTAAATCATTCAAGAAAAGGCTACA
55170 I S AGGCAGGTCTCTCTAAGCTTTCAAATCACGTGGTT
55170 P C S ATGACGTGGCAGACGGACAGTGTGGAAAGATGY
55170 P T S CGCGCCGAGGAGACAGTGTGGAAAGATGAY
55170 T C S TCTCTCATCTTTCCACACTGTCCACCACGTGATTTGAAAGCTTAGAGAGACCTGCCTCA
55170 T T S TCTCTCATCTTTCCACACTGTCTACCACGTGATTTGAAAGCTTAGAGAGACCTGCCTCA
55170 IS [ct] AAAAAATCGCACTCGACTTTTAAAGTAACAGATGTTTTCTCTCATCTTTCCACACTGTC[ct]ACCACGTGATTTGAAAGC TTAGAGAGACCTGCCTCACCCCCCCATGCCTGACACCCCTGCC
55177 I A GCTTAGCCTTTTAATTTGGGTTTTCTGCTGCACTTATAACAAAGTTTTGAATT
55177 P A A CGCGCCGAGGACAGAGTGAATCACTGTTAATAGY
55177 P G A ATGACGTGGCAGACGCAGAGTGAATCACTGTTAAY
55177 T A A AATCCTATTAACAGTGATTCACTCTGTATTCAAAACTTTGTTATAAGTGCAGCAGAAAACCCAAATTAAAAGGCTAAGCT A
55177 T G A AATCCTATTAACAGTGATTCACTCTGCATTCAAAACTTTGTTATAAGTGCAGCAGAAAACCCAAATTAAAAGGCTAAGCT A
55177 IS [ag] ctttaatagcttagccttttaatttgggtttctgctgcacttataacaaagttttgaa[tag]cagagtgaatcactgttaatagggatttgtctttctcaagtgtgctagggcaggaaaaaaag
55178 I S GACTTCTGCTGGACTGCCAGCCACCA
55178 P A S CGCGCCGAGGTTGATTACCCCTCCAAATGY
55178 P G S ATGACGTGGCAGACCTGATTACCCCTCCAAATGY
55178 T A S GCATCATTTGGAGGGGTAATCAAGGTGGCTGGCAGTCCAGCAGAAGTCCA
55178 T G S GCATCATTTGGAGGGGTAATCAGGGTGGCTGGCAGTCCAGCAGAAGTCCA
55178 IS [ag] GTGAGTCAGGTGATACTGGCTGCTAATCCAGGAAGTGGGCATCATTTGGAGGGGTAATCA[ag]GGTGGCTGGCAGTC CAGCAGAAGTCCAGCAGAAATGCAAGATTCTGGGGATTGAATCTGG
55233 I S CACGGCTATAGGTGTGCCAGTGTGGGAT
55233 P C S ATGACGTGGCAGACGGACCTGGGTGGAAAY
55233 P T S CGCGCCGAGGAGACCTGGGTGGAAAGY
55233 T C S GCCTCTTTCCACCCAGGTCCTCCCACACTGGCACACCTATAGCCGTGAA
55233 T T S GCCTCTTTCCACCCAGGTCTTCCCACACTGGCACACCTATAGCCGTGAA
55233 IS [ct] CCAGCCAAAGGGTCTGGTGCCCACTTCTAAGACACACACAGGCCTCTTTCCACCCAGGTC[ct]TCCCACACTGGCACA CCTATAGCCGTGAACTGGCTGAGGAGCAGCCTTCCAGGAATAGCG
55262 I A GCTTAGTTTACGGACCTTGGACCAGTTGAAAGTGTTGATTTTGT
55262 P A A CGCGCCGAGGATGGTGCCCTGAAATGY
55262 P G A ATGACGTGGCAGACGTGGTGCCCTGAAATGY
55262 T A A CTTGCATTTCAGGGCACCATCAAAATCAACACTTTCAACTGGTCCAAGGTCCGTAAACTAAGCTT
55262 T G A CTTGCATTTCAGGGCACCACCAAAATCAACACTTTCAACTGGTCCAAGGTCCGTAAACTAAGCTT
55262 IS [ag] AATCTTTCCTCTTGAAGCTTAGTTTACGGACCTTGGACCAGTTGAAAGTGTTGATTTTG[ag]TGGTGCCCTGAAATGC AAGAGACAGACAGATTACATTTGTATCTGGCACATAACCCCTTT
55263 I S TGCCCTGCTTGTGATGTTAAGCTTCCTGTATCCTTT
55263 P C S ATGACGTGGCAGACGTGAGGAAAAAGGCTGATAY
55263 P G S CGCGCCGAGGCTGAGGAAAAAGGCTGATAGY
55263 T C S TTTCCTATCAGCCTTTTTCCTCACAAGGATACAGGAAGCTTAACATCACAAGCAGGGCAGG
55263 T G S TTTCCTATCAGCCTTTTTCCTCAGAAGGATACAGGAAGCTTAACATCACAAGCAGGGCAGG
55263 IS [cg] AAGTTGAATGAATCACTTCATCATCCAGAAAGTCATGTTTCCTATCAGCCTTTTTCCTCA[cg]AAGGATACAGGAAGCTT AACATCACAAGCAGGGCAGGAGGAGCTGGTACTTGATGTGTTT
55264 I A GCACAGAGAGGTCTAGAGCCTAATCCTGGACTGTT
55264 P A A CGCGCCGAGGACAATGAGTCATGGGCAY
55264 P G A ATGACGTGGCAGACGCAATGAGTCATGGGCY
55264 T A A ACTGTGCCCATGACTCATTGTACAGTCCAGGATTAGGCTCTAGACCTCTCTGTGCCT
55264 T G A ACTGTGCCCATGACTCATTGCACAGTCCAGGATTAGGCTCTAGACCTCTCTGTGCCT
55264 IS [ag] CGAACTTTACAGTTGAGAAAATTGAGGCACAGAGAGGTCTAGAGCCTAATCCTGGACTGT[ag]CAATGAGTCATGGGC ACAGTTAGGATTGGAAGCGAGGCTGTCAGGCTAGTGTCTGTGTCT
55270 I S CTCAAGCACAGGGGCTCTGTCCCAATGAA
55270 P A S CGCGCCGAGGTGGTAGTTGGGATGCAY
55270 P G S ATGACGTGGCAGACCGGTAGTTGGGATGCAY
55270 T A S TGCTTGCATCCCAACTACCATCATTGGGACAGAGCCCCTGTGCTTGAGAC
55270 T G S TGCTTGCATCCCAACTACCGTCATTGGGACAGAGCCCCTGTGCTTGAGAC
55270 IS [ag] CTCCTCTCTTCCCCTAAAATTAGCCAAGAGTGGGTTTCTGTTGCTTGCATCCCAACTACC[ag]TCATTGGGACAGAGCC CCTGTGCTTGAGACAAGCAGAAGATAGACTTCTTTCACCTGGGG
55316 I S TCTAATTGAAGACAATTCTGTTGCCTAGACAATGGCATATTAAATCT
55316 P C S ATGACGTGGCAGACGTTCAGCAAAAGCAAGGAY
55316 P T S CGCGCCGAGGATTCAGCAAAAGCAAGGAY
55316 T C S TAAATCCTTGCTTTTGCTGAACGATTTAATATGCCATTGTCTAGGCAACAGAATTGTCTTCAATTAGATT
55316 T T S TAAATCCTTGCTTTTGCTGAATGATTTAATATGCCATTGTCTAGGCAACAGAATTGTCTTCAATTAGATT
55316 IS [ct] ttacatcccttgttctatagatcaaggacaatttttaatcaaatcccttgctttttgctgaa[ctt]gatttaatatgccattgtctaggcaacagaattgtcttcaattagatttaaaactaata
55391 I A CCAGCTATAAGGGACTTGGGAGCCCCAGAT
55391 P A A CGCGCCGAGGATCTTGGAAAATTCAGAAGAATGY
55391 P C A ATGACGTGGCAGACCTCTTGGAAAATTCAGAAGAATGY
55391 T A A ATTTCATTCTTCTGAATTTTCCAAGATTCTGGGGCTCCCAAGTCCCTTATAGCTGGGG
55391 T C A ATTTCATTCTTCTGAATTTTCCAAGAGTCTGGGGCTCCCAAGTCCCTTATAGCTGGGG
55391 IS [ac] GTCTGACGCCACAGCAGGAAAAATTTAGACCCCAGCTATAAGGGACTTGGGAGCCCCAGA[ac]TCTTGGAAAATTCAG AAGAATGAAATACTTTTGTCATAGGATGGTGTATTAGTTTCCCAG
55526 I A GAGGTTTGTGTATAGGTTTTACCAGGTTGCTAGAGGGGTATC
55526 P G A ATGACGTGGCAGACGTGGCAGGAAAAATGATTAAGY
55526 P T A CGCGCCGAGGTTGGCAGGAAAAATGATTAAGY
55526 T G A GATTCTTAATCATTTTTCCTGCCACATACCCCTCTAGCAACCTGGTAAAACCTATACACAAACCTCTT
55526 T T A GATTCTTAATCATTTTTCCTGCCAAATACCCCTCTAGCAACCTGGTAAAACCTATACACAAACCTCTT
55526 IS [gt] CTAAACATTTTTATAAGAAGAGGTTTGTGTATAGGTTTTACCAGGTTGCTAGAGGGGTAT[gt]TGGCAGGAAAAATGATT AAGAATCATTAGTCATTCTTAATCTCATTCTCTACAGGATCTC
55530 I S GGGTGGTGAGCTGCAGGGCTCAGTA
55530 P A S CGCGCCGAGGTGGGGCAAACACATAAAAY
55530 P G S ATGACGTGGCAGACCGGGGCAAACACATAAAY
55530 T A S AATTTTTTATGTGTTTGCCCCAACTGAGCCCTGCAGCTCACCACCCTG
55530 T G S AATTTTTTATGTGTTTGCCCCGACTGAGCCCTGCAGCTCACCACCCTG

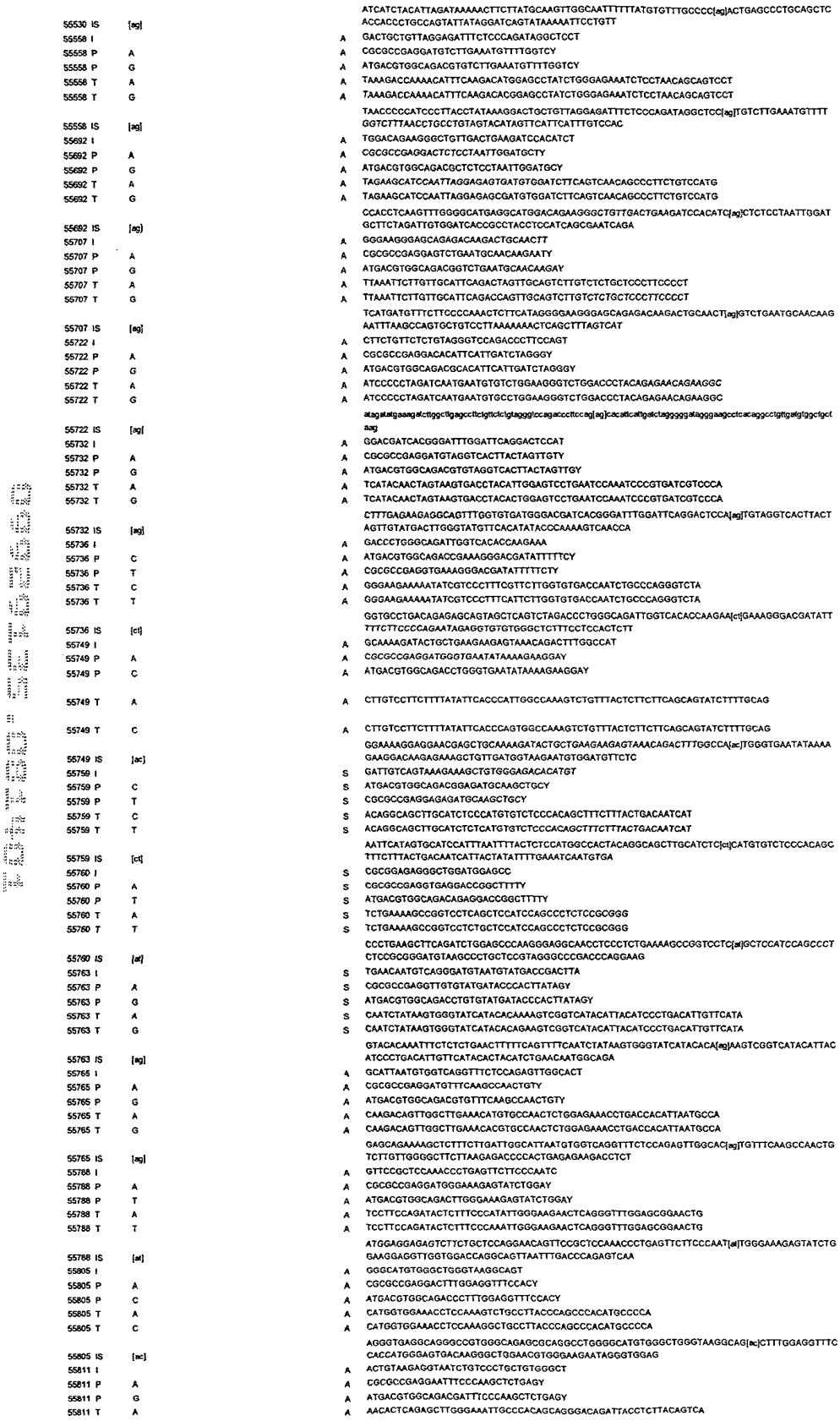
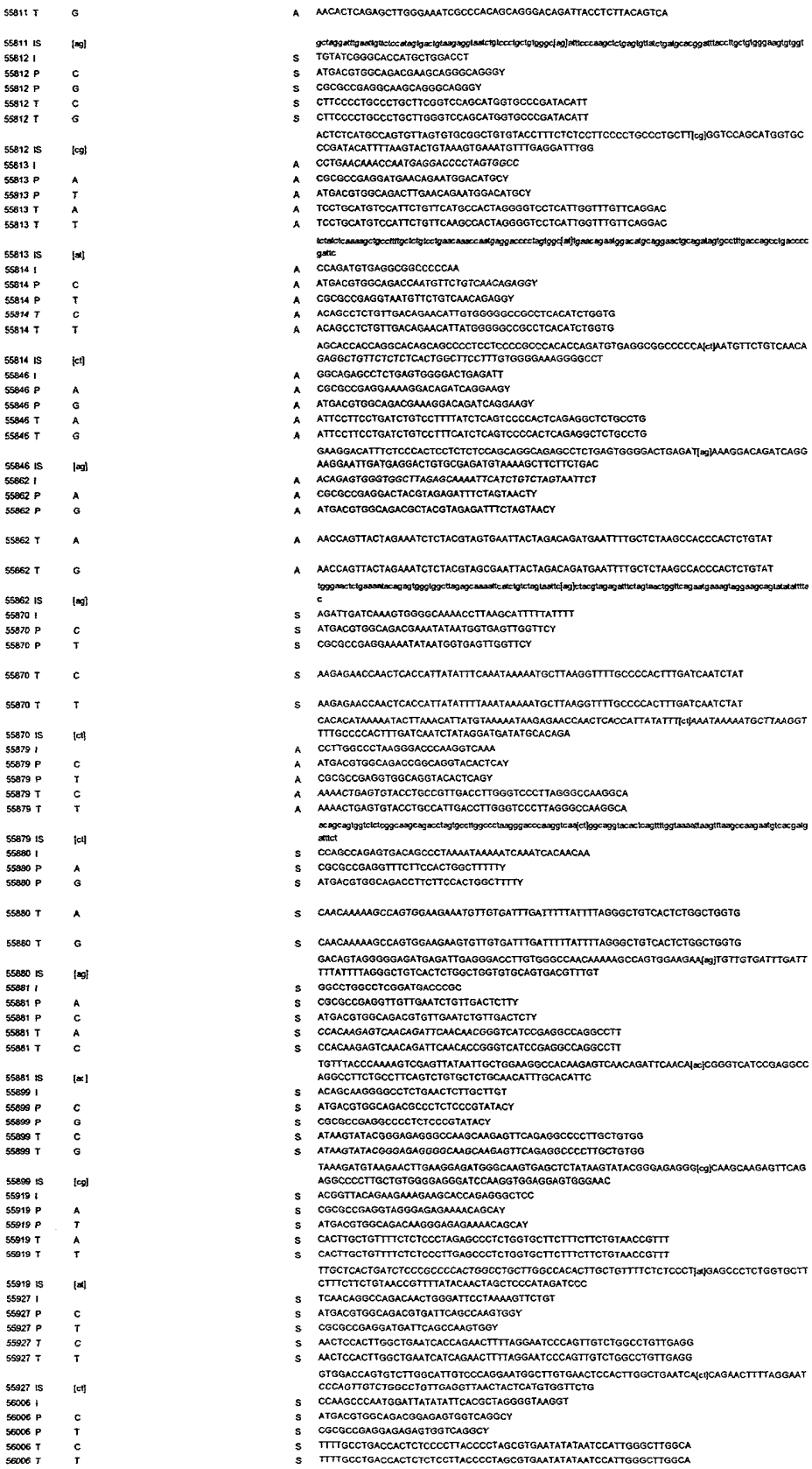
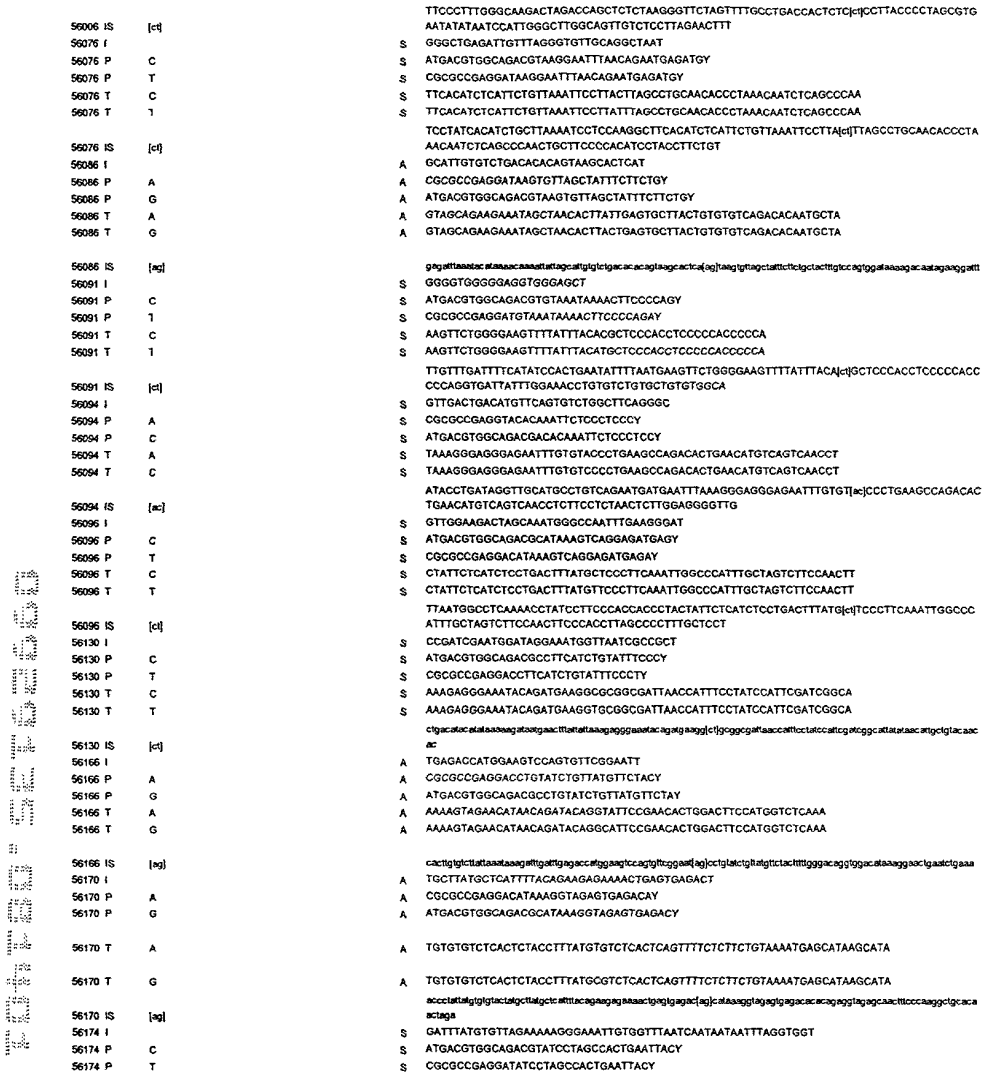

ATCATCTACATTAGATAAAAACTTCTTATGCAAGTTGGCAATTTTTTATGTGTTTGCCCC[ag]ACTGAGCCCTGCAGCTC
55530 IS [ag] ACCACCCTGCCAGTATTATAGGATCAGTATAAAAATTCCTGTT
55558 I A GACTGCTGTTAGGAGATTTCTCCCAGATAGGCTCCT
55558 P A A CGCGCCGAGGATGTCTTGAAATGTTTTGGTCY
55558 P G A ATGACGTGGCAGACGTGTCTTGAAATGTTTTGGTCY
55558 T A A TAAAGACCAAAACATTTCAAGACATGGAGCCTATCTGGGAGAAATCTCCTAACAGCAGTCCT
55558 T G A TAAAGACCAAAACATTTCAAGACACGGAGCCTATCTGGGAGAAATCTCCTAACAGCAGTCCT
TAACCCCCATCCCTTACCTATAAAGGACTGCTGTTAGGAGATTTCTCCCAGATAGGCTCC[ag]TGTCTTGAAATGTTTT
55558 IS [ag] GGTCTTTAACCTGCCTGTAGTACATAGTTCATTCATTTGTCCAC
55692 I A TGGACAGAAGGGCTGTTGACTGAAGATCCACATCT
55692 P A A CGCGCCGAGGACTCTCCTAATTGGATGCTY
55692 P G A ATGACGTGGCAGACGCTCTCCTAATTGGATGCY
55692 T A A TAGAAGCATCCAATTAGGAGAGTGATGTGGATCTTCAGTCAACAGCCCTTCTGTCCATG
55692 T G A TAGAAGCATCCAATTAGGAGAGCGATGTGGATCTTCAGTCAACAGCCCTTCTGTCCATG
CCACCTCAAGTTTGGGGCATGAGGCATGGACAGAAGGGCTGTTGACTGAAGATCCACATC[ag]CTCTCCTAATTGGAT
55692 IS [ag] GCTTCTAGATTGTGGATCACCGCCTACCTCCATCAGCGAATCAGA
55707 I A GGGAAGGGAGCAGAGACAAGACTGCAACTT
55707 P A A CGCGCCGAGGAGTCTGAATGCAACAAGAATY
55707 P G A ATGACGTGGCAGACGGTCTGAATGCAACAAGAY
55707 T A A TTAAATTCTTGTTGCATTCAGACTAGTTGCAGTCTTGTCTCTGCTCCCTTCCCCT
55707 T G A TTAAATTCTTGTTGCATTCAGACCAGTTGCAGTCTTGTCTCTGCTCCCTTCCCCT
TCATGATGTTTCTTCCCCAAACTCTTCATAGGGGAAGGGAGCAGAGACAAGACTGCAACT[ag]GTCTGAATGCAACAAG
55707 IS [ag] AATTTAAGCCAGTGCTGTCCTTAAAAAAACTCAGCTTTAGTCAT
55722 I A CTTCTGTTCTCTGTAGGGTCCAGACCCTTCCAGT
55722 P A A CGCGCCGAGGACACATTCATTGATCTAGGGY
55722 P G A ATGACGTGGCAGACGCACATTCATTGATCTAGGGY
55722 T A A ATCCCCCTAGATCAATGAATGTGTCTGGAAGGGTCTGGACCCTACAGAGAACAGAAGGC
55722 T G A ATCCCCCTAGATCAATGAATGTGCCTGGAAGGGTCTGGACCCTACAGAGAACAGAAGGC
atagatatgaaagatcttggctgagccttctgttctctgtagggtccagaccctttccag[ag]tcacattcattgatctagggggatagggaagcctcacaggcctgttgatgtggctgct
55722 IS [ag] aag
55732 I A GGACGATCACGGGATTTGGATTCAGGACTCCAT
55732 P A A CGCGCCGAGGATGTAGGTCACTTACTAGTTGTY
55732 P G A ATGACGTGGCAGACGTGTAGGTCACTTACTAGTTGY
55732 T A A TCATACAACTAGTAAGTGACCTACATTGGAGTCCTGAATCCAAATCCCGTGATCGTCCCA
55732 T G A TCATACAACTAGTAAGTGACCTACACTGGAGTCCTGAATCCAAATCCCGTGATCGTCCCA
CTTTGAGAAGAGGCAGTTTGGTGTGATGGGACGATCACGGGATTTGGATTCAGGACTCCA[ag]TGTAGGTCACTTACT
55732 IS [ag] AGTTGTATGACTTGGGTATGTTCACATATACCCAAAAGTCAACCA
55736 I A GACCCTGGGCAGATTGGTCACACCAAGAAA
55736 P C A ATGACGTGGCAGACCGAAAGGGACGATATTTTTCY
55736 P T A CGCGCCGAGGTGAAAGGGACGATATTTTTCTY
55736 T C A GGGAAGAAAAATATCGTCCCTTTCGTTCTTGGTGTGACCAATCTGCCCAGGGTCTA
55736 T T A GGGAAGAAAAATATCGTCCCTTTCATTCTTGGTGTGACCAATCTGCCCAGGGTCTA
GGTGCCTGACAGAGAGCAGTAGCTCAGTCTAGACCCTGGGCAGATTGGTCACACCAAGAA[ct]GAAAGGGACGATATT
55736 IS [ct] TTTCTTCCCCAGAATAGAGGTGTGTGGGCTCTTTCCTCCACTCTT
55749 I A GCAAAAGATACTGCTGAAGAAGAGTAAACAGACTTTGGCCAT
55749 P A A CGCGCCGAGGATGGGTGAATATAAAAGAAGGAY
55749 P C A ATGACGTGGCAGACCTGGGTGAATATAAAAGAAGGAY
55749 T A A CTTGTCCTTCTTTTATATTCACCCATTGGCCAAAGTCTGTTTACTCTTCTTCAGCAGTATCTTTTGCAG
55749 T C A CTTGTCCTTCTTTTATATTCACCCAGTGGCCAAAGTCTGTTTACTCTTCTTCAGCAGTATCTTTTGCAG
GGAAAAGGAGGAACGAGCTGCAAAAGATACTGCTGAAGAAGAGTAAACAGACTTTGGCCA[ac]TGGGTGAATATAAAA
55749 IS [ac] GAAGGACAAGAGAAAGCTGTTGATGGTAAGAATGTGGATGTTCTC
55759 I S GATTGTCAGTAAAGAAAGCTGTGGGAGACACATGT
55759 P C S ATGACGTGGCAGACGGAGATGCAAGCTGCY
55759 P T S CGCGCCGAGGAGAGATGCAAGCTGCY
55759 T C S ACAGGCAGCTTGCATCTCTCATGTGTCTCCCACAGCTTTCTTTACTGACAATCAT
55759 T T S ACAGGCAGCTTGCATCTCTCATGTGTCTCCCACAGCTTTCTTTACTGACAATCAT
AATTCATAGTGCATCCATTTAATTTTACTCTCCATGGCCACTACAGGCAGCTTGCATCTC[ct]CATGTGTCTCCCACAGC
55759 IS [ct] TTTCTTTACTGACAATCATTACTATATTTTGAAATCAATGTGA
55760 I S CGCGGAGAGGGCTGGATGGAGCC
55760 P A S CGCGCCGAGGTGAGGACCGGCTTTTY
55760 P T S ATGACGTGGCAGACAGAGGACCGGCTTTTY
55760 T A S TCTGAAAAGCCGGTCCTCAGCTCCATCCAGCCCTCTCCGCGGG
55760 T T S TCTGAAAAGCCGGTCCTCTGCTCCATCCAGCCCTCTCCGCGGG
CCCTGAAGCTTCAGATCTGGAGCCCAAGGGAGGCAACCTCCCTCTGAAAAGCCGGTCCTC[at]GCTCCATCCAGCCCT
55760 IS [at] CTCCGCGGGATGTAAGCCCTGCTCCGTAGGGCCCGACCCAGGAAG
55763 I S TGAACAATGTCAGGGATGTAATGTATGACCGACTTA
55763 P A S CGCGCCGAGGTTGTGTATGATACCCACTTATAGY
55763 P G S ATGACGTGGCAGACCTGTGTATGATACCCACTTATAGY
55763 T A S CAATCTATAAGTGGGTATCATACACAAAAGTCGGTCATACATTACATCCCTGACATTGTTCATA
55763 T G S CAATCTATAAGTGGGTATCATACACAGAAGTCGGTCATACATTACATCCCTGACATTGTTCATA
GTACACAAATTTCTCTCTGAACTTTTTCAGTTTTCAATCTATAAGTGGGTATCATACACA[ag]AAGTCGGTCATACATTAC
55763 IS [ag] ATCCCTGACATTGTTCATACACTACATCTGAACAATGGCAGA
55765 I A GCATTAATGTGGTCAGGTTTCTCCAGAGTTGGCACT
55765 P A A CGCGCCGAGGATGTTTCAAGCCAACTGTY
55765 P G A ATGACGTGGCAGACGTGTTTCAAGCCAACTGTY
55765 T A A CAAGACAGTTGGCTTGAAACATGTGCCAACTCTGGAGAAACCTGACCACATTAATGCCA
55765 T G A CAAGACAGTTGGCTTGAAACACGTGCCAACTCTGGAGAAACCTGACCACATTAATGCCA
GAGCAGAAAAGCTCTTTCTTGATTGGCATTAATGTGGTCAGGTTTCTCCAGAGTTGGCAC[ag]TGTTTCAAGCCAACTG
55765 IS [ag] TCTTGTTGGGGCTTCTTAAGAGACCCCACTGAGAGAAGACCTCT
55788 I A GTTCCGCTCCAAACCCTGAGTTCTTCCCAATC
55788 P A A CGCGCCGAGGATGGGAAAGAGTATCTGGAY
55788 P T A ATGACGTGGCAGACTTGGGAAAGAGTATCTGGAY
55788 T A A TCCTTCCAGATACTCTTTCCCATATTGGGAAGAACTCAGGGTTTGGAGCGGAACTG
55788 T T A TCCTTCCAGATACTCTTTCCCAAATTGGGAAGAACTCAGGGTTTGGAGCGGAACTG
ATGGAGGAGAGTCTTCTGCTCCAGGAACAGTTCCGCTCCAAACCCTGAGTTCTTCCCAAT[at]TGGGAAAGAGTATCTG
55788 IS [at] GAAGGAGGTTGGTGGACCAGGCAGTTAATTTGACCCAGAGTCAA
55805 I A GGGCATGTGGGCTGGGTAAGGCAGT
55805 P A A CGCGCCGAGGACTTTGGAGGTTTCCACY
55805 P C A ATGACGTGGCAGACCCTTTGGAGGTTTCCACY
55805 T A A CATGGTGGAAACCTCCAAAGTCTGCCTTACCCAGCCCACATGCCCCA
55805 T C A CATGGTGGAAACCTCCAAAGGCTGCCTTACCCAGCCCACATGCCCCA
AGGGTGAGGCAGGGCCGTGGGCAGAGCGCAGGCCTGGGGCATGTGGGCTGGGTAAGGCAG[ac]CTTTGGAGGTTTC
55805 IS [ac] CACCATGGGAGTGACAAGGGCTGGAACGTGGGAAGAATAGGGTGGAG
55811 I A ACTGTAAGAGGTAATCTGTCCCTGCTGTGGGCT
55811 P A A CGCGCCGAGGAATTTCCCAAGCTCTGAGY
55811 P G A ATGACGTGGCAGACGATTTCCCAAGCTCTGAGY
55811 T A A AACACTCAGAGCTTGGGAAATTGCCCACAGCAGGGACAGATTACCTCTTACAGTCA

FIGURE 129D


55811 T G A AACACTCAGAGCTTGGGAAATCGCCCACAGCAGGGACAGATTACCTCTTACAGTCA
55811 IS [ag] gctaggatttgaatgtctccatagtgactgtaagaggtaatctgtgcccgctgtgggc[ag]atttcccaagctctgagtgttatctgatgcacggatttacctgctgtgggaagtgtggt
55812 I S TGTATCGGGCACCATGCTGGACCT
55812 P C S ATGACGTGGCAGACGAAGCAGGGCAGGGY
55812 P G S CGCGCCGAGGCAAGCAGGGCAGGGY
55812 T C S CTTCCCCTGCCCTGCTTCGGTCCAGCATGGTGCCCGATACATT
55812 T G S CTTCCCCTGCCCTGCTTGGGTCCAGCATGGTGCCCGATACATT
55812 IS [cg] ACTCTCATGCCAGTGTTAGTGTGCGGCTGTGTACCTTTCTCTCCTTCCCCTGCCCTGCTT[cg]GGTCCAGCATGGTGC CCGATACATTTTAAGTACTGTAAAGTGAAATGTTTGAGGATTTGG
55813 I A CCTGAACAAACCAATGAGGACCCCTAGTGGCC
55813 P A A CGCGCCGAGGATGAACAGAATGGACATGCY
55813 P T A ATGACGTGGCAGACTTGAACAGAATGGACATGCY
55813 T A A TCCTGCATGTCCATTCTGTTCATGCCACTAGGGGTCCTCATTGGTTTGTTCAGGAC
55813 T T A TCCTGCATGTCCATTCTGTTCAAGCCACTAGGGGTCCTCATTGGTTTGTTCAGGAC
55813 IS [at] tctatctcaaaagctgccttttgctctgtcctgaacaaaccaatgaggaccccctagtggc[at]tgaacagaatggacatgcaggaactgcagatagtgccttgaccagcctgacccc gattc
55814 I A CCAGATGTGAGGCGGCCCCCAA
55814 P C A ATGACGTGGCAGACCAATGTTCTGTCAACAGAGGY
55814 P T A CGCGCCGAGGTAATGTTCTGTCAACAGAGGY
55814 T C A ACAGCCTCTGTTGACAGAACATTGTGGGGGCCGCCTCACATCTGGTG
55814 T T A ACAGCCTCTGTTGACAGAACATTATGGGGGCCGCCTCACATCTGGTG
55814 IS [ct] AGCACCACCAGGCACAGCAGCCCCTCCTCCCCGCCCACACCAGATGTGAGGCGGCCCCCA[ct]AATGTTCTGTCAACA GAGGCTGTTCTCTCTCACTGGCTTCCTTTGTGGGGAAAGGGGCCT
55846 I A GGCAGAGCCTCTGAGTGGGGACTGAGATT
55846 P A A CGCGCCGAGGAAAAGGACAGATCAGGAAGY
55846 P G A ATGACGTGGCAGACGAAAGGACAGATCAGGAAGY
55846 T A A ATTCCTTCCTGATCTGTCCTTTTATCTCAGTCCCCACTCAGAGGCTCTGCCTG
55846 T G A ATTCCTTCCTGATCTGTCCTTTCATCTCAGTCCCCACTCAGAGGCTCTGCCTG
55846 IS [ag] GAAGGACATTTCTCCCACTCCTCTCTCCAGCAGGCAGAGCCTCTGAGTGGGGACTGAGAT[ag]AAAGGACAGATCAGG AAGGAATTGATGAGGACTGTGCGAGATGTAAAAGCTTCTTCTGAC
55862 I A ACAGAGTGGGTGGCTTAGAGCAAAATTCATCTGTCTAGTAATTCT
55862 P A A CGCGCCGAGGACTACGTAGAGATTTCTAGTAACTY
55862 P G A ATGACGTGGCAGACGCTACGTAGAGATTTCTAGTAACY
55862 T A A AACCAGTTACTAGAAATCTCTACGTAGTGAATTACTAGACAGATGAATTTTGCTCTAAGCCACCCACTCTGTAT
55862 T G A AACCAGTTACTAGAAATCTCTACGTAGCGAATTACTAGACAGATGAATTTTGCTCTAAGCCACCCACTCTGTAT
55862 IS [ag] tgggaactctgaaaatacagagtgggtggcttagagcaaaattcatctgtctagtaattc[ag]ctacgtagagattctagtaactggttcagaatgaaagtaggaagcagtatatatttta c
55870 I S AGATTGATCAAAGTGGGGCAAAACCTTAAGCATTTTTATTTT
55870 P C S ATGACGTGGCAGACGAAATATAATGGTGAGTTGGTTCY
55870 P T S CGCGCCGAGGAAAATATAATGGTGAGTTGGTTCY
55670 T C S AAGAGAACCAACTCACCATTATATTTCAAATAAAAATGCTTAAGGTTTTGCCCCACTTTGATCAATCTAT
55870 T T S AAGAGAACCAACTCACCATTATATTTTAAATAAAAATGCTTAAGGTTTTGCCCCACTTTGATCAATCTAT
55870 IS [ct] CACACATAAAAATACTTAAACATTATGTAAAAATAAGAGAACCAACTCACCATTATATTT[ct]AAATAAAAATGCTTAAGGT TTTGCCCCACTTTGATCAATCTATAGGATGATATGCACAGA
55879 I A CCTTGGCCCTAAGGGACCCAAGGTCAAA
55879 P C A ATGACGTGGCAGACCGGCAGGTACACTCAY
55879 P T A CGCGCCGAGGTGGCAGGTACACTCAGY
55879 T C A AAAACTGAGTGTACCTGCCGTTGACCTTGGGTCCCTTAGGGCCAAGGCA
55879 T T A AAAACTGAGTGTACCTGCCATTGACCTTGGGTCCCTTAGGGCCAAGGCA
55879 IS [ct] acagcagtggtctctcggcaagcagacctagtgcctggccctaagggacccaaggtcaa[ct]ggcaggtacactcagttttggtaaaaatlaagtttaagccaagaatgtcacgaag attct
55880 I S CCAGCCAGAGTGACAGCCCTAAAATAAAAATCAAATCACAACAA
55880 P A S CGCGCCGAGGTTTCTTCCACTGGCTTTTTY
55880 P G S ATGACGTGGCAGACCTTCTTCCACTGGCTTTTY
55880 T A S CAACAAAAAGCCAGTGGAAGAAATGTTGTGATTTGATTTTTATTTTAGGGCTGTCACTCTGGCTGGTG
55880 T G S CAACAAAAAGCCAGTGGAAGAAGTGTTGTGATTTGATTTTTATTTTAGGGCTGTCACTCTGGCTGGTG
55880 IS [ag] GACAGTAGGGGGAGATGAGATTGAGGGACCTTGTGGGCCAACAAAAAGCCAGTGGAAGAA[ag]TGTTGTGATTTGATT TTTATTTTAGGGCTGTCACTCTGGCTGGTGTGCAGTGACGTTTGT
55881 I S GGCCTGGCCTCGGATGACCCGC
55881 P A S CGCGCCGAGGTTGTTGAATCTGTTGACTCTTY
55881 P C S ATGACGTGGCAGACGTGTTGAATCTGTTGACTCTY
55881 T A S CCACAAGAGTCAACAGATTCAACAACGGGTCATCCGAGGCCAGGCCTT
55881 T C S CCACAAGAGTCAACAGATTCAACACCGGGTCATCCGAGGCCAGGCCTT
55881 IS [ac] TGTTTACCCAAAAGTCGAGTTATAATTGCTGGAAGGCCACAAGAGTCAACAGATTCAACA[ac]CGGGTCATCCGAGGCC AGGCCTTCTGCCTTCAGTCTGTGCTCTGCAACATTTGCACATTC
55899 I S ACAGCAAGGGGCCTCTGAACTCTTGCTTGT
55899 P C S ATGACGTGGCAGACGCCCTCTCCCGTATACY
55899 P G S CGCGCCGAGGCCCCTCTCCCGTATACY
55899 T C S ATAAGTATACGGGAGAGGGCCAAGCAAGAGTTCAGAGGCCCCTTGCTGTGG
55899 T G S ATAAGTATACGGGAGAGGGCCAAGCAAGAGTTCAGAGGCCCCTTGCTGTGG
55899 IS [cg] TAAAGATGTAAGAACTTGAAGGAGATGGGCAAGTGAGCTCTATAAGTATACGGGAGAGGG[cg]CAAGCAAGAGTTCAG AGGCCCCTTGCTGTGGGGAGGGATCCAAGGTGGAGGAGTGGGAAC
55919 I S ACGGTTACAGAAGAAAGAAGCACCAGAGGGCTCC
55919 P A S CGCGCCGAGGTAGGGAGAGAAAACAGCAY
55919 P T S ATGACGTGGCAGACAAGGGAGAGAAAACAGCAY
55919 T A S CACTTGCTGTTTTCTCTCCCTAGAGCCCTCTGGTGCTTCTTTCTTCTGTAACCGTTT
55919 T T S CACTTGCTGTTTTCTCTCCCTTGAGCCCTCTGGTGCTTCTTTCTTCTGTAACCGTTT
55919 IS [at] TTGCTCACTGATCTCCCGCCCCACTGGCCTGCTTGGCCACACTTGCTGTTTTCTCTCCCT[at]GAGCCCTCTGGTGCTT CTTTCTTCTGTAACCGTTTTATACAACTAGCTCCCATAGATCCC
55927 I S TCAACAGGCCAGACAACTGGGATTCCTAAAAGTTCTGT
55927 P C S ATGACGTGGCAGACGTGATTCAGCCAAGTGGY
55927 P T S CGCGCCGAGGATGATTCAGCCAAGTGGY
55927 T C S AACTCCACTTGGCTGAATCACCAGAACTTTTAGGAATCCCAGTTGTCTGGCCTGTTGAGG
55927 T T S AACTCCACTTGGCTGAATCATCAGAACTTTTAGGAATCCCAGTTGTCTGGCCTGTTGAGG
55927 IS [ct] GTGGACCAGTGTCTTGGCATTGTCCCAGGAATGGCTTGTGAACTCCACTTGGCTGAATCA[ct]CAGAACTTTTAGGAAT CCCAGTTGTCTGGCCTGTTGAGGTTAACTACTCATGTGGTTCTG
56006 I S CCAAGCCCAATGGATTATATATTCACGCTAGGGGTAAGGT
56006 P C S ATGACGTGGCAGACGGAGAGTGGTCAGGCY
56006 P T S CGCGCCGAGGAGAGAGTGGTCAGGCY
56006 T C S TTTTGCCTGACCACTCTCCCCTTACCCCTAGCGTGAATATATAATCCATTGGGCTTGGCA
56006 T T S TTTTGCCTGACCACTCTCTCCTTACCCCTAGCGTGAATATATAATCCATTGGGCTTGGCA


TTCCCTTTGGGCAAGACTAGACCAGCTCTCTAAGGGTTCTAGTTTTGCCTGACCACTCTC[ct]CCTTACCCCTAGCGTG
56006 IS [ct] AATATATAATCCATTGGGCTTGGCAGTTGTCTCCTTAGAACTTT
56076 I S GGGCTGAGATTGTTTAGGGTGTTGCAGGCTAAT
56076 P C S ATGACGTGGCAGACGTAAGGAATTTAACAGAATGAGATGY
56076 P T S CGCGCCGAGGATAAGGAATTTAACAGAATGAGATGY
56076 T C S TTCACATCTCATTCTGTTAAATTCCTTACTTAGCCTGCAACACCCTAAACAATCTCAGCCCAA
56076 T T S TTCACATCTCATTCTGTTAAATTCCTTATTTAGCCTGCAACACCCTAAACAATCTCAGCCCAA
TCCTATCACATCTGCTTAAAATCCTCCAAGGCTTCACATCTCATTCTGTTAAATTCCTTA[ct]TTAGCCTGCAACACCCTA
56076 IS [ct] AACAATCTCAGCCCAACTGCTTCCCCACATCCTACCTTCTGT
56086 I A GCATTGTGTCTGACACACAGTAAGCACTCAT
56086 P A A CGCGCCGAGGATAAGTGTTAGCTATTTCTTCTGY
56086 P G A ATGACGTGGCAGACGTAAGTGTTAGCTATTTCTTCTGY
56086 T A A GTAGCAGAAGAAATAGCTAACACTTATTGAGTGCTTACTGTGTGTCAGACACAATGCTA
56086 T G A GTAGCAGAAGAAATAGCTAACACTTACTGAGTGCTTACTGTGTGTCAGACACAATGCTA
gagattaaatacataaaacaaaattattagcattgtgtctgacacacagtaagcactca[ag]taagtgttagctatttcttctgctacttttgtccagtggataaaagacaatagaaggatttt
56086 IS [ag]
56091 I S GGGGTGGGGGAGGTGGGAGCT
56091 P C S ATGACGTGGCAGACGTGTAAATAAAACTTCCCCAGY
56091 P T S CGCGCCGAGGATGTAAATAAAACTTCCCCAGAY
56091 T C S AAGTTCTGGGGAAGTTTTATTTACACGCTCCCACCTCCCCCACCCCCA
56091 T T S AAGTTCTGGGGAAGTTTTATTTACATGCTCCCACCTCCCCCACCCCCA
TTGTTTGATTTTCATATCCACTGAATATTTTAATGAAGTTCTGGGGAAGTTTTATTTACA[ct]GCTCCCACCTCCCCCACC
56091 IS [ct] CCCAGGTGATTATTTGGAAACCTGTGTCTGTGCTGTGTGGCA
56094 I S GTTGACTGACATGTTCAGTGTCTGGCTTCAGGGC
56094 P A S CGCGCCGAGGTACACAAATTCTCCCTCCCY
56094 P C S ATGACGTGGCAGACGACACAAATTCTCCCTCCY
56094 T A S TAAAGGGAGGGAGAATTTGTGTACCCTGAAGCCAGACACTGAACATGTCAGTCAACCT
56094 T C S TAAAGGGAGGGAGAATTTGTGTCCCCTGAAGCCAGACACTGAACATGTCAGTCAACCT
ATACCTGATAGGTTGCATGCCTGTCAGAATGATGAATTTAAAGGGAGGGAGAATTTGTGT[ac]CCCTGAAGCCAGACAC
56094 IS [ac] TGAACATGTCAGTCAACCTCTTCCTCTAACTCTTGGAGGGGTTG
56096 I S GTTGGAAGACTAGCAAATGGGCCAATTTGAAGGGAT
56096 P C S ATGACGTGGCAGACGCATAAAGTCAGGAGATGAGY
56096 P T S CGCGCCGAGGACATAAAGTCAGGAGATGAGAY
56096 T C S CTATTCTCATCTCCTGACTTTATGCTCCCTTCAAATTGGCCCATTTGCTAGTCTTCCAACTT
56096 T T S CTATTCTCATCTCCTGACTTTATGTTCCCTTCAAATTGGCCCATTTGCTAGTCTTCCAACTT
TTAATGGCCTCAAAACCTATCCTTCCCACCACCCTACTATTCTCATCTCCTGACTTTATG[ct]TCCCTTCAAATTGGCCC
56096 IS [ct] ATTTGCTAGTCTTCCAACTTCCCACCTTAGCCCCTTTGCTCCT
56130 I S CCGATCGAATGGATAGGAAATGGTTAATCGCCGCT
56130 P C S ATGACGTGGCAGACGCCTTCATCTGTATTTCCCY
56130 P T S CGCGCCGAGGACCTTCATCTGTATTTCCCTY
56130 T C S AAAGAGGGAAATACAGATGAAGGCGCGGCGATTAACCATTTCCTATCCATTCGATCGGCA
56130 T T S AAAGAGGGAAATACAGATGAAGGTGCGGCGATTAACCATTTCCTATCCATTCGATCGGCA
ctgacatacatataaaaagatcatgaacttatattataaagagggaaatacagatgaagg[ct]cggcgattaaccatttcctatccattcgatcggcattatataacatgctgtacaac
56130 IS [ct] ac
56166 I S TGAGACCATGGAAGTCCAGTGTTCGGAATT
56166 P A A CGCGCCGAGGACCTGTATCTGTTATGTTCTACY
56166 P G A ATGACGTGGCAGACGCCTGTATCTGTTATGTTCTAY
56166 T A A AAAAGTAGAACATAACAGATACAGGTATTCCGAACACTGGACTTCCATGGTCTCAAA
56166 T G A AAAAGTAGAACATAACAGATACAGGCATTCCGAACACTGGACTTCCATGGTCTCAAA
cactgtgtcttattaaataaagatttgattgagaccatggaagtccagtgttcggaat[ag]cctgtatctgttatgttctacttttgggacaggtggacataaaggaactgaatctgaaa
56166 IS [ag]
56170 I A TGCTTATGCTCATTTTACAGAAGAGAAAACTGAGTGAGACT
56170 P A A CGCGCCGAGGACATAAAGGTAGAGTGAGACAY
56170 P G A ATGACGTGGCAGACGCATAAAGGTAGAGTGAGACY
56170 T A A TGTGTGTCTCACTCTACCTTTATGTGTCTCACTCAGTTTTCTCTTCTGTAAAATGAGCATAAGCATA
56170 T G A TGTGTGTCTCACTCTACCTTTATGCGTCTCACTCAGTTTTCTCTTCTGTAAAATGAGCATAAGCATA
accctattatgtgtgtactatgcttatgctcatttacagaagagaaaactgagtgagac[ag]cataaaggtagagtgagacacacagaggtagagcaacttcccaaggctgcaca
56170 IS [ag] actaga
56174 I S GATTTATGTGTTAGAAAAAGGGAAATTGTGGTTTAATCAATAATAATTTAGGTGGT
56174 P C S ATGACGTGGCAGACGTATCCTAGCCACTGAATTACY
56174 P T S CGCGCCGAGGATATCCTAGCCACTGAATTACY
GCCTGTAATTCAGTGGCTAGGATACCCACCTAAATTATTATTGATTAAACCACAATTTCCCTTTTTCTAACACATAAATC
56174 T C S TC
GCCTGTAATTCAGTGGCTAGGATATCCACCTAAATTATTATTGATTAAACCACAATTTCCCTTTTTCTAACACATAAATC
56174 T T S TC
ATAGCAAGAACTGAGGTATTTCTATATTACCTCAAAGCCTGTAATTCAGTGGCTAGGATA[ct]CCACCTAAATTATTATTG
56174 IS [ct] ATTAAACCACAATTTCCCTTTTTCTAACACATAAATCTCTCC
56180 I S TGAGCCAAGCAGAAGGTCTTAGTGACTCATAAGTGGAGT
56180 P C S ATGACGTGGCAGACGAGAAATCCACATATAGCAGCY
56180 P T S CGCGCCGAGGAAGAAATCCACATATAGCAGCY
56180 T C S AGTGGCTGCTATATGTGGATTTCTCCTCCACTTATGAGTCACTAAGACCTTCTGCTTGGCTCAAC
56180 T T S AGTGGCTGCTATATGTGGATTTCTTCTCCACTTATGAGTCACTAAGACCTTCTGCTTGGCTCAAC
TGTAATGCTCAAGCAATTGGAGGAAAATGTGACCTTAGTGGCTGCTATATGTGGATTTCT[ct]CTCCACTTATGAGTCAC
56180 IS [ct] TAAGACCTTCTGCTTGGCTCAACCCACCCCCATGCTTGGGGAA
56260 I A CATAGCAGAGAAGGGTTTAGGTGGTAAGGACCTGGT
56260 P C A CGCGCCGAGGCAGGGGTAACTGGAAGGY
56260 P G A ATGACGTGGCAGACGAGGGGTAACTGGAAGGY
56260 T C A GCTACCTTCCAGTTACCCCTGCCAGGTCCTTACCACCTAAACCCTTCTCTGCTATGAT
56260 T G A GCTACCTTCCAGTTACCCCTCCCAGGTCCTTACCACCTAAACCCTTCTCTGCTATGAT
AAGGAGTGATCCTAGGAAGGAGGATCATAGCAGAGAAGGGTTTAGGTGGTAAGGACCTGG[cg]AGGGGTAACTGGAA
56260 IS [cg] GGTAGCAGAAATGAACGAGACTGATTTTACTTAGTCACAGTTATAC
56292 I A GCACTTATTCCTTGCACTGACTGTATATCTACTTGTTTACTGT
56292 P A A CGCGCCGAGGACTGTCTCCCCATTAAAACY
56292 P C A ATGACGTGGCAGACCCTGTCTCCCCATTAAAACY
56292 T A A TGACGTTTTAATGGGGAGACAGTCAGTAAACAAGTAGATATACAGTCAGTGCAAGGAATAAGTGCAG
56292 T C A TGACGTTTTAATGGGGAGACAGGCAGTAAACAAGTAGATATACAGTCAGTGCAAGGAATAAGTGCAG
ACCCCCTTAATTTTGACTGCACTTATTCCTTGCACTGACTGTATATCTACTTGTTTACTG[ac]CTGTCTCCCCATTAAAAC
56292 IS [ac] GTCAGCAGAAGCTAAGTCTATTCACACTATATTCTCAGTGCC
56295 I S CCTCCTTATTGGGTTGTTGTGAGGGTGATCCAAGAAAT
56295 P C S ATGACGTGGCAGACGAACGAGAAAGGGCTTTY
56295 P T S CGCGCCGAGGAAACGAGAAAGGGCTTTGY
56295 T C S TTCTCAAAGCCCTTTCTCGTTCTTTCTTGGATCACCCTCACAACAACCCAATAAGGAGGAC
56295 T T S TTCTCAAAGCCCTTTCTCGTTTTTTCTTGGATCACCCTCACAACAACCCAATAAGGAGGAC
CCCAGGGCTAATCACAGCCAAATCTCTAGCATTTTATAGTTCTCAAAGCCCTTTCTCGTT[ct]TTTCTTGGATCACCCTC
56295 IS [ct] ACAACAACCCAATAAGGAGGACTGGGCAGGGAGTCTCATTCTC

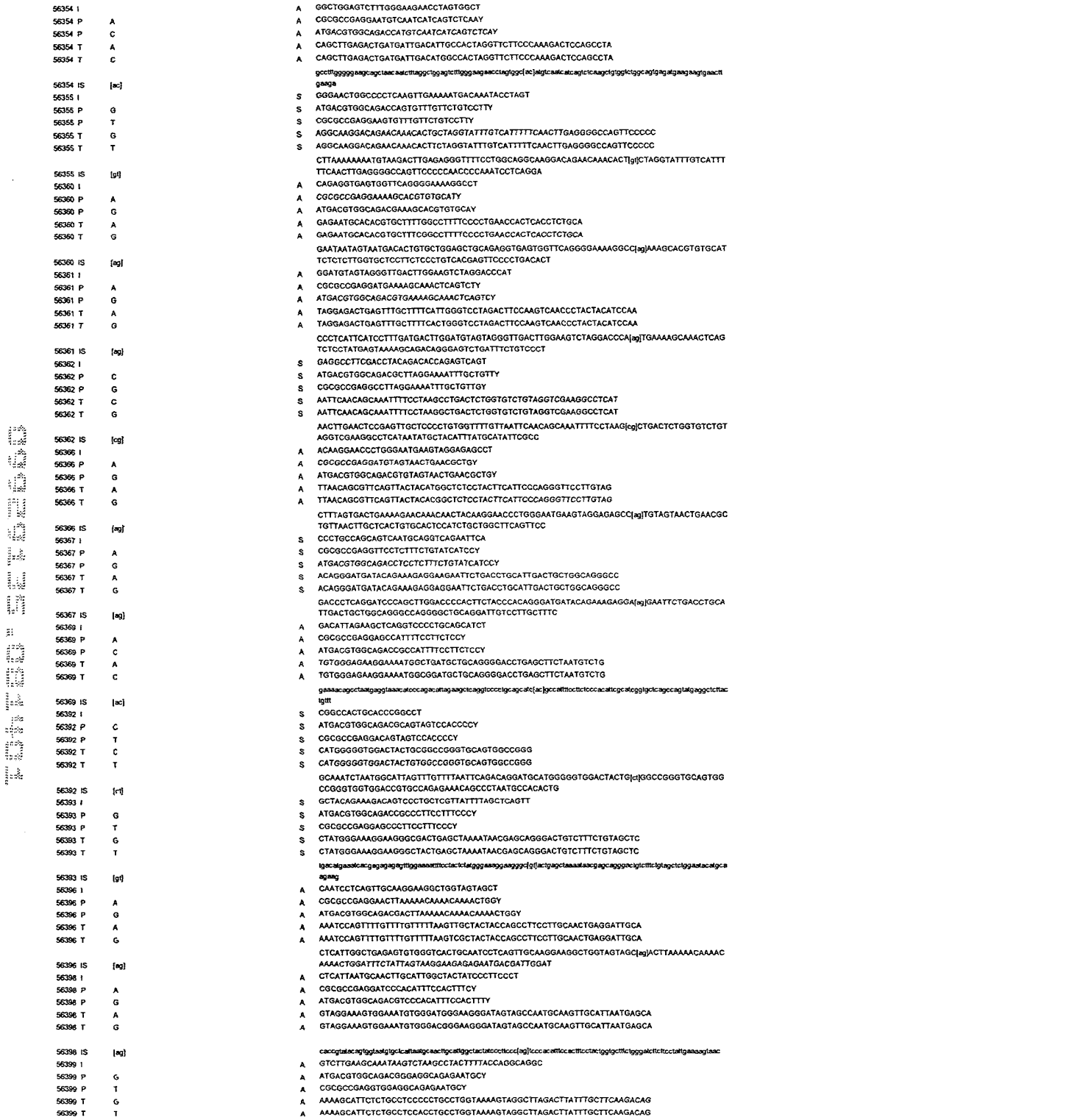

56354 I A GGCTGGAGTCTTTGGGAAGAACCTAGTGGCT
56354 P A A CGCGCCGAGGAATGTCAATCATCAGTCTCAAY
56354 P C A ATGACGTGGCAGACCATGTCAATCATCAGTCTCAY
56354 T A A CAGCTTGAGACTGATGATTGACATTGCCACTAGGTTCTTCCCAAAGACTCCAGCCTA
56354 T C A CAGCTTGAGACTGATGATTGACATGGCCACTAGGTTCTTCCCAAAGACTCCAGCCTA
56354 IS [ac] gccttgggggaagcagctaacaatcttaggctggagtcttgggaagaacctagtggc[ac]atgtcaatcatcagtctcaagctgtggtctggcagtgagatgaagaagtgaacttgaaga
56355 I S GGGAACTGGCCCCTCAAGTTGAAAAATGACAAATACCTAGT
56355 P G S ATGACGTGGCAGACCAGTGTTTGTTCTGTCCTTY
56355 P T S CGCGCCGAGGAAGTGTTTGTTCTGTCCTTY
56355 T G S AGGCAAGGACAGAACAAACACTGCTAGGTATTTGTCATTTTTCAACTTGAGGGGCCAGTTCCCCC
56355 T T S AGGCAAGGACAGAACAAACACTTCTAGGTATTTGTCATTTTTCAACTTGAGGGGCCAGTTCCCCC
56355 IS [gt] CTTAAAAAAAATGTAAGACTTGAGAGGGTTTTCCTGGCAGGCAAGGACAGAACAAACACT[gt]CTAGGTATTTGTCATTTTTCAACTTGAGGGGCCAGTTCCCCCAACCCCAAATCCTCAGGA
56360 I A CAGAGGTGAGTGGTTCAGGGGAAAAGGCCT
56360 P A A CGCGCCGAGGAAAAGCACGTGTGCATY
56360 P G A ATGACGTGGCAGACGAAAGCACGTGTGCAY
56360 T A A GAGAATGCACACGTGCTTTTGGCCTTTTCCCCTGAACCACTCACCTCTGCA
56360 T G A GAGAATGCACACGTGCTTTCGGCCTTTTCCCCTGAACCACTCACCTCTGCA
56360 IS [ag] GAATAATAGTAATGACACTGTGCTGGAGCTGCAGAGGTGAGTGGTTCAGGGGAAAAGGCC[ag]AAAGCACGTGTGCATTCTCTCTTGGTGCTCCTTCTCCCTGTCACGAGTTCCCCTGACACT
56361 I A GGATGTAGTAGGGTTGACTTGGAAGTCTAGGACCCAT
56361 P A A CGCGCCGAGGATGAAAAGCAAACTCAGTCTY
56361 P G A ATGACGTGGCAGACGTGAAAAGCAAACTCAGTCY
56361 T A A TAGGAGACTGAGTTTGCTTTTCATTGGGTCCTAGACTTCCAAGTCAACCCTACTACATCCAA
56361 T G A TAGGAGACTGAGTTTGCTTTTCACTGGGTCCTAGACTTCCAAGTCAACCCTACTACATCCAA
56361 IS [ag] CCCTCATTCATCCTTTGATGACTTGGATGTAGTAGGGTTGACTTGGAAGTCTAGGACCCA[ag]TGAAAAGCAAACTCAGTCTCCTATGAGTAAAAGCAGACAGGGAGTCTGATTTCTGTCCCT
56362 I S GAGGCCTTCGACCTACAGACACCAGAGTCAGT
56362 P C S ATGACGTGGCAGACGCTTAGGAAAATTTGCTGTTY
56362 P G S CGCGCCGAGGCCTTAGGAAAATTTGCTGTTGY
56362 T C S AATTCAACAGCAAATTTTCCTAAGCCTGACTCTGGTGTCTGTAGGTCGAAGGCCTCAT
56362 T G S AATTCAACAGCAAATTTTCCTAAGGCTGACTCTGGTGTCTGTAGGTCGAAGGCCTCAT
56362 IS [cg] AACTTGAACTCCGAGTTGCTCCCCTGTGGTTTTGTTAATTCAACAGCAAATTTTCCTAAG[cg]CTGACTCTGGTGTCTGTAGGTCGAAGGCCTCATAATATGCTACATTTATGCATATTCGCC
56366 I A ACAAGGAACCCTGGGAATGAAGTAGGAGAGCCT
56366 P A A CGCGCCGAGGATGTAGTAACTGAACGCTGY
56366 P G A ATGACGTGGCAGACGTGTAGTAACTGAACGCTGY
56366 T A A TTAACAGCGTTCAGTTACTACATGGCTCTCCTACTTCATTCCCAGGGTTCCTTGTAG
56366 T G A TTAACAGCGTTCAGTTACTACACGGCTCTCCTACTTCATTCCCAGGGTTCCTTGTAG
56366 IS [ag] CTTTAGTGACTGAAAAGAACAAACAACTACAAGGAACCCTGGGAATGAAGTAGGAGAGCC[ag]TGTAGTAACTGAACGCTGTTAACTTGCTCACTGTGCACTCCATCTGCTGGCTTCAGTTCC
56367 I S CCCTGCCAGCAGTCAATGCAGGTCAGAATTCA
56367 P A S CGCGCCGAGGTTCCTCTTTCTGTATCATCCY
56367 P G S ATGACGTGGCAGACCTCCTCTTTCTGTATCATCCY
56367 T A S ACAGGGATGATACAGAAAGAGGAAGAATTCTGACCTGCATTGACTGCTGGCAGGGCC
56367 T G S ACAGGGATGATACAGAAAGAGGAGGAATTCTGACCTGCATTGACTGCTGGCAGGGCC
56367 IS [ag] GACCCTCAGGATCCCAGCTTGGACCCCACTTCTACCCACAGGGATGATACAGAAAGAGGA[ag]GAATTCTGACCTGCATTTGACTGCTGGCAGGGCCAGGGGCTGCAGGATTGTCCTTGCTTTC
56369 I A GACATTAGAAGCTCAGGTCCCCTGCAGCATCT
56369 P A A CGCGCCGAGGAGCCATTTTCCTTCTCCY
56369 P C A ATGACGTGGCAGACCGCCATTTTCCTTCTCCY
56369 T A A TGTGGGAGAAGGAAAATGGCTGATGCTGCAGGGGACCTGAGCTTCTAATGTCTG
56369 T C A TGTGGGAGAAGGAAAATGGCGGATGCTGCAGGGGACCTGAGCTTCTAATGTCTG
56369 IS [ac] gaaaacagcctaatgaggtaaacatcccagacattagaagctcaggtcccctgcagcatc[ac]gccattttcctctcccacattcgcatcggtgctcagccagtatgaggctcttactgttt
56392 I S CGGCCACTGCACCCGGCCT
56392 P C S ATGACGTGGCAGACGCAGTAGTCCACCCCY
56392 P T S CGCGCCGAGGACAGTAGTCCACCCCY
56392 T C S CATGGGGGTGGACTACTGCGGCCGGGTGCAGTGGCCGGG
56392 T T S CATGGGGGTGGACTACTGTGGCCGGGTGCAGTGGCCGGG
56392 IS [ct] GCAAATCTAATGGCATTAGTTTGTTTTAATTCAGACAGGATGCATGGGGGTGGACTACTG[ct]GGCCGGGTGCAGTGGCCGGGTGGTGGACCGTGCCAGAGAAACAGCCCTAATGCCACACTG
56393 I S GCTACAGAAAGACAGTCCCTGCTCGTTATTTTAGCTCAGTT
56393 P G S ATGACGTGGCAGACCGCCCTTCCTTTCCCY
56393 P T S CGCGCCGAGGAGCCCTTCCTTTCCCY
56393 T G S CTATGGGAAAGGAAGGGCGACTGAGCTAAAATAACGAGCAGGGACTGTCTTTCTGTAGCTC
56393 T T S CTATGGGAAAGGAAGGGCTACTGAGCTAAAATAACGAGCAGGGACTGTCTTTCTGTAGCTC
56393 IS [gt] tgacatgaaatcacgagagagagttggaaaatttcctactctatgggaaaggaagggc[gt]actgagctaaaatatacgagcagggacatgtctttctgtagctctggaatacatgcaagaag
56396 I A CAATCCTCAGTTGCAAGGAAGGCTGGTAGTAGCT
56396 P A A CGCGCCGAGGAACTTAAAAACAAAACAAAACTGGY
56396 P G A ATGACGTGGCAGACGACTTAAAAACAAAACAAAACTGGY
56396 T A A AAATCCAGTTTTGTTTTGTTTTTAAGTTGCTACTACCAGCCTTCCTTGCAACTGAGGATTGCA
56396 T G A AAATCCAGTTTTGTTTTGTTTTTAAGTCGCTACTACCAGCCTTCCTTGCAACTGAGGATTGCA
56396 IS [ag] CTCATTGGCTGAGAGTGTGGGTCACTGCAATCCTCAGTTGCAAGGAAGGCTGGTAGTAGC[ag]ACTTAAAAACAAAACAAAACTGGATTTCTATTAGTAAGGAAGAGAGAATGACGATTGGAT
56398 I A CTCATTAATGCAACTTGCATTGGCTACTATCCCTTCCCT
56398 P A A CGCGCCGAGGATCCCACATTTCCACTTTCY
56398 P G A ATGACGTGGCAGACGTCCCACATTTCCACTTTY
56398 T A A GTAGGAAAGTGGAAATGTGGGATGGGAAGGGATAGTAGCCAATGCAAGTTGCATTAATGAGCA
56398 T G A GTAGGAAAGTGGAAATGTGGGACGGGAAGGGATAGTAGCCAATGCAAGTTGCATTAATGAGCA
56398 IS [ag] caccgtatacagtggtaatgtgctcattaatgcaactgcattggctactatcccttccc[ag]tcccacatttccacttcctactgggctttctgggatcttcttcctattgaaaagtaac
56399 I A GTCTTGAAGCAAATAAGTCTAAGCCTACTTTTACCAGGCAGGC
56399 P G A ATGACGTGGCAGACGGGAGGCAGAGAATGCY
56399 P T A CGCGCCGAGGTGGAGGCAGAGAATGCY
56399 T G A AAAAGCATTCTCTGCCTCCCCCTGCCTGGTAAAAGTAGGCTTAGACTTATTTGCTTCAAGACAG
56399 T T A AAAAGCATTCTCTGCCTCCACCTGCCTGGTAAAAGTAGGCTTAGACTTATTTGCTTCAAGACAG
56399 IS [gt] TATAGATTCCTTCGCGCTGTCTTGAAGCAAATAAGTCTAAGCCTACTTTTACCAGGCAGG[gt]GGAGGCAGAGAATGCTTTTTTTGGCATCTGCTCTTCCACAATTGTCTTCAGCTCAAAACA
56404 I S AAACTCCACTGAACATATGCTGATTAACATGTCCCTTAT
56404 P C S ATGACGTGGCAGACGAAAGCAGAGGGCACY
56404 P T S CGCGCCGAGGAAAAGCAGAGGGCACTY
56404 T C S CTGAAGTGCCCTCTGCTTTCTAAGGGACATGTTAATCAGCATATGTTCAGTGGAGTTTCA
56404 T T S CTGAAGTGCCCTCTGCTTTTTAAGGGACATGTTAATCAGCATATGTTCAGTGGAGTTTCA
56404 IS [ct] CAACGCAACTGATAATAGTGGGCCCTGGATACCGGAGAAGTCTGAAGTGCCCTCTGCTTT[ct]TAAGGGACATGTTAATCAGCATATGTTCAGTGGAGTTTCATTATTAAGTGTAACTTATC
56405 I A CTAATTCCCCACTAATGCTCATGGCAAAGTGACCCT

FIGURE 129D

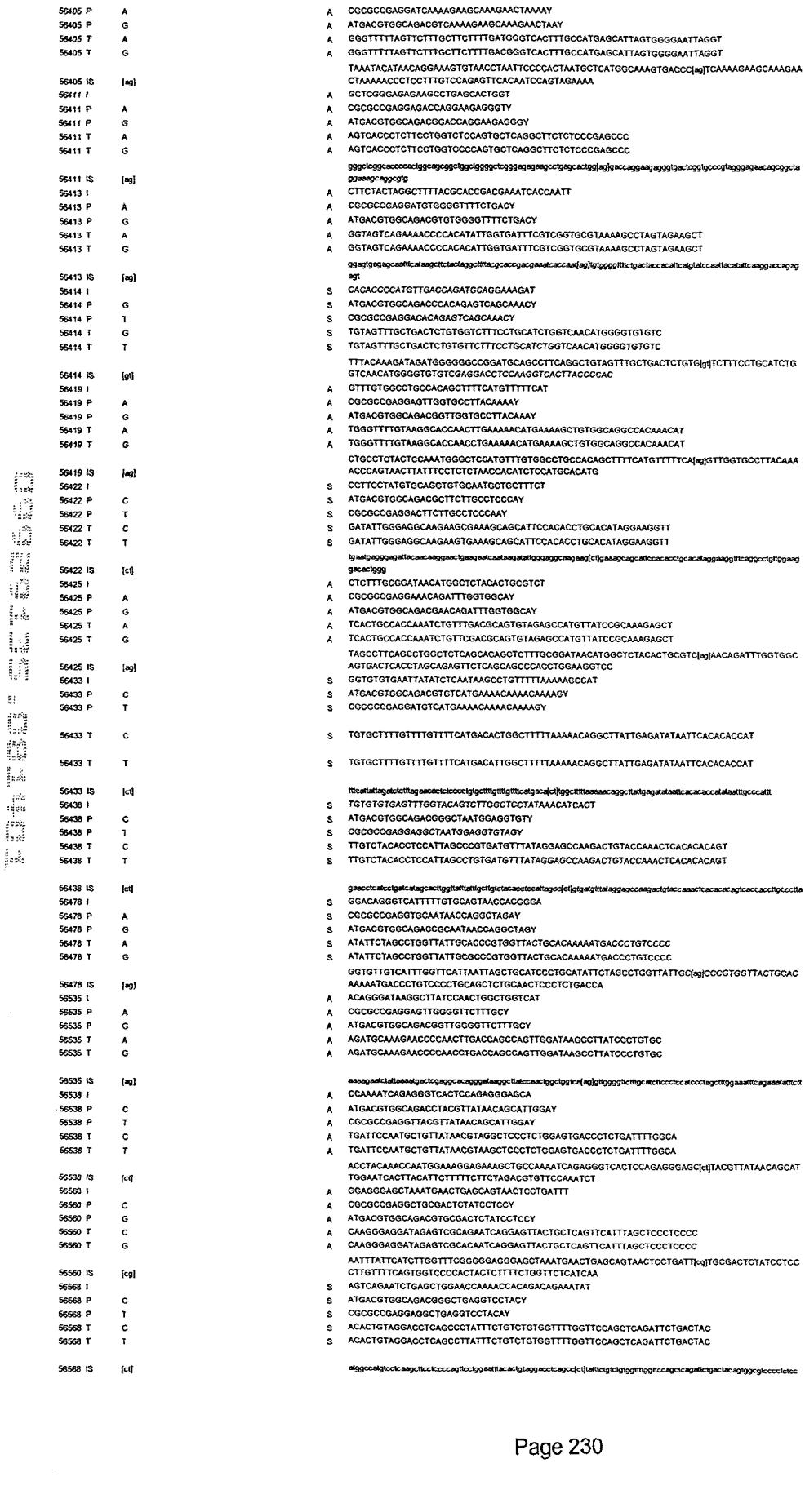
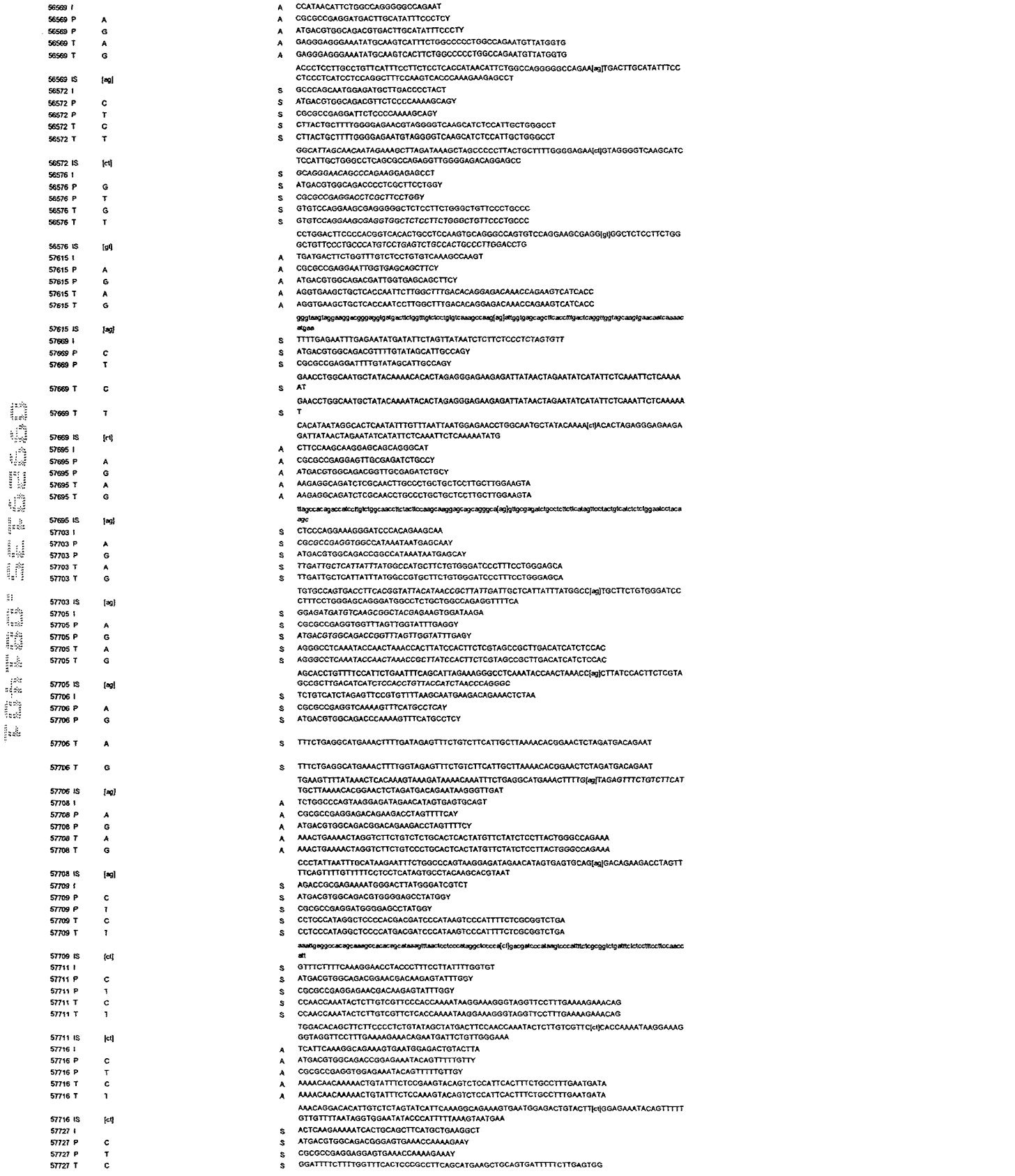

56405 P A A CGCGCCGAGGATCAAAAGAAGCAAAGAACTAAAAY
56405 P G A ATGACGTGGCAGACGTCAAAAGAAGCAAAGAACTAAY
56405 T A A GGGTTTTTAGTTCTTTGCTTCTTTTGATGGGTCACTTTGCCATGAGCATTAGTGGGGAATTAGGT
56405 T G A GGGTTTTTAGTTCTTTGCTTCTTTTGACGGGTCACTTTGCCATGAGCATTAGTGGGGAATTAGGT
TAAATACATAACAGGAAAGTGTAACCTAATTCCCCACTAATGCTCATGGCAAAGTGACCC[ag]TCAAAAGAAGCAAAGAA
56405 IS [ag] CTAAAAACCCTCCTTTGTCCAGAGTTCACAATCCAGTAGAAAA
56411 I A GCTCGGGAGAGAAGCCTGAGCACTGGT
56411 P A A CGCGCCGAGGAGACCAGGAAGAGGGTY
56411 P G A ATGACGTGGCAGACGGACCAGGAAGAGGGY
56411 T A A AGTCACCCTCTTCCTGGTCTCCAGTGCTCAGGCTTCTCTCCCGAGCCC
56411 T G A AGTCACCCTCTTCCTGGTCCCCAGTGCTCAGGCTTCTCTCCCGAGCCC
gggclcggcaccccactggcagcggclggclggggctcgggagagaagcctgagcactgg[ag]gaccaggaagagggtgactcggtgcccgtagggagaacagcggcta
56411 IS [ag] ggaaagcaggcgtg
56413 I A CTTCTACTAGGCTTTTACGCACCGACGAAATCACCAATT
56413 P A A CGCGCCGAGGATGTGGGGTTTTCTGACY
56413 P G A ATGACGTGGCAGACGTGTGGGGTTTTCTGACY
56413 T A A GGTAGTCAGAAAACCCCACACATTGGTGATTTCGTCGGTGCGTAAAAGCCTAGTAGAAGCT
56413 T G A GGTAGTCAGAAAACCCCACACATTGGTGATTTCGTCGGTGCGTAAAAGCCTAGTAGAAGCT
ggagtgagagcaatttcataagcttctactaggctttacgcaccgacgaaatcaccaat[ag]tgtgggtttctgactaccacattcatgtatccaattactatttcaaggaccagag
56413 IS [ag] agt
56414 I S CACACCCCATGTTGACCAGATGCAGGAAAGAT
56414 P G S ATGACGTGGCAGACCCACAGAGTCAGCAAACY
56414 P T S CGCGCCGAGGACACAGAGTCAGCAAACY
56414 T G S TGTAGTTTGCTGACTCTGTGGTCTTTCCTGCATCTGGTCAACATGGGGTGTGTC
56414 T T S TGTAGTTTGCTGACTCTGTGTTCTTTCCTGCATCTGGTCAACATGGGGTGTGTC
TTTACAAAGATAGATGGGGGGCCGGATGCAGCCTTCAGGCTGTAGTTTGCTGACTCTGTG[gt]TCTTTCCTGCATCTG
56414 IS [gt] GTCAACATGGGGTGTGTCGAGGACCTCCAAGGTCACTTACCCCAC
56419 I A GTTTGTGGCCTGCCACAGCTTTTCATGTTTTTCAT
56419 P A A CGCGCCGAGGAGTTGGTGCCTTACAAAAY
56419 P G A ATGACGTGGCAGACGGTTGGTGCCTTACAAAY
56419 T A A TGGGTTTTGTAAGGCACCAACTTGAAAAACATGAAAAGCTGTGGCAGGCCACAAACAT
56419 T G A TGGGTTTTGTAAGGCACCAACCTGAAAAACATGAAAAGCTGTGGCAGGCCACAAACAT
CTGCCTCTACTCCAAATGGGCTCCATGTTTGTGGCCTGCCACAGCTTTTCATGTTTTTCA[ag]GTTGGTGCCTTACAAA
56419 IS [ag] ACCCAGTAACTTATTTCCTCTCTAACCACATCTCCATGCACATG
56422 I S CCTTCCTATGTGCAGGTGTGGAATGCTGCTTTCT
56422 P C S ATGACGTGGCAGACGCTTCTTGCCTCCCAY
56422 P T S CGCGCCGAGGACTTCTTGCCTCCCAAY
56422 T C S GATATTGGGAGGCAAGAAGCGAAAGCAGCATTCCACACCTGCACATAGGAAGGTT
56422 T T S GATATTGGGAGGCAAGAAGTGAAAGCAGCATTCCACACCTGCACATAGGAAGGTT
tgaatggggagattacaacaaggaactgaagaatcaataagatattgggaggcaagaag[ct]gaaagcagcattccacacctgcacataggaaggttcaggcctgttggaag
56422 IS [ct] gacactggg
56425 I A CTCTTTGCGGATAACATGGCTCTACACTGCGTCT
56425 P A A CGCGCCGAGGAAACAGATTTGGTGGCAY
56425 P G A ATGACGTGGCAGACGAACAGATTTGGTGGCAY
56425 T A A TCACTGCCACCAAATCTGTTTGACGCAGTGTAGAGCCATGTTATCCGCAAAGAGCT
56425 T G A TCACTGCCACCAAATCTGTTCGACGCAGTGTAGAGCCATGTTATCCGCAAAGAGCT
TAGCCTTCAGCCTGGCTCTCAGCACAGCTCTTTGCGGATAACATGGCTCTACACTGCGTC[ag]AACAGATTTGGTGGC
56425 IS [ag] AGTGACTCACCTAGCAGAGTTCTCAGCAGCCCACCTGGAAGGTCC
56433 I S GGTGTGTGAATTATATCTCAATAAGCCTGTTTTTAAAAAGCCAT
56433 P C S ATGACGTGGCAGACGTGTCATGAAAACAAAACAAAAGY
56433 P T S CGCGCCGAGGATGTCATGAAAACAAAACAAAAGY
56433 T C S TGTGCTTTTGTTTTGTTTTCATGACACTGGCTTTTTAAAAACAGGCTTATTGAGATATAATTCACACACCAT
56433 T T S TGTGCTTTTGTTTTGTTTTCATGACATTGGCTTTTTAAAAACAGGCTTATTGAGATATAATTCACACACCAT
56433 IS [ct] ttlcatlattagatctcttagaacactctcccctgtgcttttgttttgtttlcatgaca[ct]tggcttttaaaaacaggcttattgagatataattcacacacccatataatttgcccattt
56438 I S TGTGTGTGAGTTTGGTACAGTCTTGGCTCCTATAAACATCACT
56438 P C S ATGACGTGGCAGACGGGCTAATGGAGGTGTY
56438 P T S CGCGCCGAGGAGGCTAATGGAGGTGTAGY
56438 T C S TTGTCTACACCTCCATTAGCCCGTGATGTTTATAGGAGCCAAGACTGTACCAAACTCACACACAGT
56438 T T S TTGTCTACACCTCCATTAGCCTGTGATGTTTATAGGAGCCAAGACTGTACCAAACTCACACACAGT
gaacctcatcctgatcatagcactggttatttattgcttgtctacacctccattagcc[ct]gtgatgtttatagggagccaagactgtaccaaactcacacacagtcacccacctttgccctta
56478 I S GGACAGGGTCATTTTTGTGCAGTAACCACGGGA
56478 P A S CGCGCCGAGGTGCAATAACCAGGCTAGAY
56478 P G S ATGACGTGGCAGACCGCAATAACCAGGCTAGY
56478 T A S ATATTCTAGCCTGGTTATTGCACCCGTGGTTACTGCACAAAAATGACCCTGTCCCC
56478 T G S ATATTCTAGCCTGGTTATTGCGCCCGTGGTTACTGCACAAAAATGACCCTGTCCCC
GGTGTTGTCATTTGGTTCATTAATTAGCTGCATCCCTGCATATTCTAGCCTGGTTATTGC[ag]CCCGTGGTTACTGCAC
56478 IS [ag] AAAAATGACCCTGTCCCCTGCAGCTCTGCAACTCCCTCTGACCA
56535 I A ACAGGGATAAGGCTTATCCAACTGGCTGGTCAT
56535 P A A CGCGCCGAGGAGTTGGGGTTCTTTGCY
56535 P G A ATGACGTGGCAGACGGTTGGGGTTCTTTGCY
56535 T A A AGATGCAAAGAACCCCAACTTGACCAGCCAGTTGGATAAGCCTTATCCCTGTGC
56535 T G A AGATGCAAAGAACCCCAACCTGACCAGCCAGTTGGATAAGCCTTATCCCTGTGC
56535 IS [ag] aaaagaatctatataaaatgactcgaggcacagggataaggcttatccaactggctggtca[ag]gtgggtcttgcatcttcccttccatcccttagctttggaaatttcagaaatatttctt
56538 I A CCAAAATCAGAGGGTCACTCCAGAGGGAGCA
56538 P C A ATGACGTGGCAGACCTACGTTATAACAGCATTGGAY
56538 P T A CGCGCCGAGGTTACGTTATAACAGCATTGGAY
56538 T C A TGATTCCAATGCTGTTATAACGTAGGCTCCCTCTGGAGTGACCCTCTGATTTTGGCA
56538 T T A TGATTCCAATGCTGTTATAACGTAAGCTCCCTCTGGAGTGACCCTCTGATTTTGGCA
ACCTACAAACCAATGGAAAGGAGAAAGCTGCCAAAATCAGAGGGTCACTCCAGAGGGAGC[ct]TACGTTATAACAGCAT
56538 IS [ct] TGGAATCACTTACATTCTTTTTCTTCTAGACGTGTTCCAAATCT
56560 I A GGAGGGAGCTAAATGAACTGAGCAGTAACTCCTGATTT
56560 P C A CGCGCCGAGGCTGCGACTCTATCCTCCY
56560 P G A ATGACGTGGCAGACGTGCGACTCTATCCTCCY
56560 T C A CAAGGGAGGATAGAGTCGCAGAATCAGGAGTTACTGCTCAGTTCATTTAGCTCCCTCCCC
56560 T G A CAAGGGAGGATAGAGTCGCACAATCAGGAGTTACTGCTCAGTTCATTTAGCTCCCTCCCC
AATTTATTCATCTTGGTTTCGGGGGAGGGAGCTAAATGAACTGAGCAGTAACTCCTGATT[cg]TGCGACTCTATCCTCC
56560 IS [cg] CTTGTTTTCAGTGGTCCCCACTACTCTTTTCTGGTTCTCATCAA
56568 I S AGTCAGAATCTGAGCTGGAACCAAAACCACAGACAGAAATAT
56568 P C S ATGACGTGGCAGACGGGCTGAGGTCCTACY
56568 P T S CGCGCCGAGGAGGCTGAGGTCCTACAY
56568 T C S ACACTGTAGGACCTCAGCCCTATTTCTGTCTGTGGTTTTGGTTCCAGCTCAGATTCTGACTAC
56568 T T S ACACTGTAGGACCTCAGCCTTATTTCTGTCTGTGGTTTTGGTTCCAGCTCAGATTCTGACTAC
56568 IS [ct] atggccatgtcctcaagctccicccccagticctggaatttacactgtaggacctcagcc[ct]tatttctgtctgtggttttggttccagctcagatttctgactacagtggcgtcccctctcc

FIGURE 129D


56569 I A CCATAACATTCTGGCCAGGGGGCCAGAAT
56569 P A A CGCGCCGAGGATGACTTGCATATTTCCCTCY
56569 P G A ATGACGTGGCAGACGTGACTTGCATATTTCCCTY
56569 T A A GAGGGAGGGAAATATGCAAGTCATTTCTGGCCCCCTGGCCAGAATGTTATGGTG
56569 T G A GAGGGAGGGAAATATGCAAGTCACTTCTGGCCCCCTGGCCAGAATGTTATGGTG
56569 IS [ag] ACCCTCCTTGCCTGTTCATTTCCTTCTCCTCACCATAACATTCTGGCCAGGGGGCCAGAA[ag]TGACTTGCATATTTCC CTCCCTCATCCTCCAGGCTTTCCAAGTCACCCAAAGAAGAGCCT
56572 I S GCCCAGCAATGGAGATGCTTGACCCCTACT
56572 P C S ATGACGTGGCAGACGTTCTCCCCAAAAGCAGY
56572 P T S CGCGCCGAGGATTCTCCCCAAAAGCAGY
56572 T C S CTTACTGCTTTTGGGGAGAACGTAGGGGTCAAGCATCTCCATTGCTGGGCCT
56572 T T S CTTACTGCTTTTGGGGAGAATGTAGGGGTCAAGCATCTCCATTGCTGGGCCT
56572 IS [ct] GGCATTAGCAACAATAGAAAGCTTAGATAAAGCTAGCCCCCTTACTGCTTTTGGGGAGAA[ct]GTAGGGGTCAAGCATC TCCATTGCTGGGCCTCAGCGCCAGAGGTTGGGGAGACAGGAGCC
56576 I S GCAGGGAACAGCCCAGAAGGAGAGCCT
56576 P G S ATGACGTGGCAGACCCCTCGCTTCCTGGY
56576 P T S CGCGCCGAGGACCTCGCTTCCTGGY
56576 T G S GTGTCCAGGAAGCGAGGGGGCTCTCCTTCTGGGCTGTTCCCTGCCC
56576 T T S GTGTCCAGGAAGCGAGGTGGCTCTCCTTCTGGGCTGTTCCCTGCCC
56576 IS [gt] CCTGGACTTCCCCACGGTCACACTGCCTCCAAGTGCAGGGCCAGTGTCCAGGAAGCGAGG[gt]GGCTCTCCTTCTGG GCTGTTCCCTGCCCATGTCCTGAGTCTGCCACTGCCCTTGGACCTG
57615 I A TGATGACTTCTGGTTTGTCTCCTGTGTCAAAGCCAAGT
57615 P A A CGCGCCGAGGAATTGGTGAGCAGCTTCY
57615 P G A ATGACGTGGCAGACGATTGGTGAGCAGCTTCY
57615 T A A AGGTGAAGCTGCTCACCAATTCTTGGCTTTGACACAGGAGACAAACCAGAAGTCATCACC
57615 T G A AGGTGAAGCTGCTCACCAATCCTTGGCTTTGACACAGGAGACAAACCAGAAGTCATCACC
57615 IS [ag] gggtaagtaggaaggacgggagggtgtgacttctggttgtctcctgtgtcaaagccaag[ag]atggtgagcagcttcaccttgactcaggttggtagcaggtgaacaatcaaaac atgaa
57669 I S TTTTGAGAATTTGAGAATATGATATTCTAGTTATAATCTCTTCTCCCTCTAGTGTT
57669 P C S ATGACGTGGCAGACGTTTTGTATAGCATTGCCAGY
57669 P T S CGCGCCGAGGATTTTGTATAGCATTGCCAGY
57669 T C S GAACCTGGCAATGCTATACAAAACACACTAGAGGGAGAAGAGATTATAACTAGAATATCATATTCTCAAATTCTCAAAA AT
57669 T T S GAACCTGGCAATGCTATACAAAATACACTAGAGGGAGAAGAGATTATAACTAGAATATCATATTCTCAAATTCTCAAAAA T
57669 IS [ct] CACATAATAGGCACTCAATATTTGTTTAATTAATGGAGAACCTGGCAATGCTATACAAAA[ct]ACACTAGAGGGAGAAGA GATTATAACTAGAATATCATATTCTCAAATTCTCAAAAATATG
57695 I A CTTCCAAGCAAGGAGCAGCAGGGCAT
57695 P A A CGCGCCGAGGAGTTGCGAGATCTGCCY
57695 P G A ATGACGTGGCAGACGGTTGCGAGATCTGCY
57695 T A A AAGAGGCAGATCTCGCAACTTGCCCTGCTGCTCCTTGCTTGGAAGTA
57695 T G A AAGAGGCAGATCTCGCAACCTGCCCTGCTGCTCCTTGCTTGGAAGTA
57695 IS [ag] ttagccacagaccatcctgtctggcaacctctacttccaagcaaggagcagcagggca[ag]gttgcgagatctgcctcttcttcatagttcctactgtcatctctctggaatcctaca agc
57703 I S CTCCCAGGAAAGGGATCCCACAGAAGCAA
57703 P A S CGCGCCGAGGTGGCCATAAATAATGAGCAAY
57703 P G S ATGACGTGGCAGACCGGCCATAAATAATGAGCAY
57703 T A S TTGATTGCTCATTATTTATGGCCATGCTTCTGTGGGATCCCTTTCCTGGGAGCA
57703 T G S TTGATTGCTCATTATTTATGGCCGTGCTTCTGTGGGATCCCTTTCCTGGGAGCA
57703 IS [ag] TGTGCCAGTGACCTTCACGGTATTACATAACCGCTTATTGATTGCTCATTATTTATGGCC[ag]TGCTTCTGTGGGATCC CTTTCCTGGGAGCAGGGATGGCCTCTGCTGGCCAGAGGTTTTCA
57705 I S GGAGATGATGTCAAGCGGCTACGAGAAGTGGATAAGA
57705 P A S CGCGCCGAGGTGGTTTAGTTGGTATTTGAGGY
57705 P G S ATGACGTGGCAGACCGGTTTAGTTGGTATTTGAGY
57705 T A S AGGGCCTCAAATACCAACTAAACCACTTATCCACTTCTCGTAGCCGCTTGACATCATCTCCAC
57705 T G S AGGGCCTCAAATACCAACTAAACCGCTTATCCACTTCTCGTAGCCGCTTGACATCATCTCCAC
57705 IS [ag] AGCACCTGTTTTCCATTCTGAATTTCAGCATTAGAAAGGGCCTCAAATACCAACTAAACC[ag]CTTATCCACTTCTCGTA GCCGCTTGACATCATCTCCACCTGTTACCATCTAACCCAGGGC
57706 I S TCTGTCATCTAGAGTTCCGTGTTTTAAGCAATGAAGACAGAAACTCTAA
57706 P A S CGCGCCGAGGTCAAAAGTTTCATGCCTCAY
57706 P G S ATGACGTGGCAGACCCAAAAGTTTCATGCCTCY
57706 T A S TTTCTGAGGCATGAAACTTTTGATAGAGTTTCTGTCTTCATTGCTTAAAACACGGAACTCTAGATGACAGAAT
57706 T G S TTTCTGAGGCATGAAACTTTTGGTAGAGTTTCTGTCTTCATTGCTTAAAACACGGAACTCTAGATGACAGAAT
57706 IS [ag] TGAAGTTTTATAAACTCACAAAGTAAAGATAAAACAAATTTCTGAGGCATGAAACTTTTG[ag]TAGAGTTTCTGTCTTCAT TGCTTAAAACACGGAACTCTAGATGACAGAATAAGGGTTGAT
57708 I A TCTGGCCCAGTAAGGAGATAGAACATAGTGAGTGCAGT
57708 P A A CGCGCCGAGGAGACAGAAGACCTAGTTTTCAY
57708 P G A ATGACGTGGCAGACGGACAGAAGACCTAGTTTTCY
57708 T A A AAACTGAAAACTAGGTCTTCTGTCTCTGCACTCACTATGTTCTATCTCCTTACTGGGCCAGAAA
57708 T G A AAACTGAAAACTAGGTCTTCTGTCCCTGCACTCACTATGTTCTATCTCCTTACTGGGCCAGAAA
57708 IS [ag] CCCTATTAATTTGCATAAGAATTTCTGGCCCAGTAAGGAGATAGAACATAGTGAGTGCAG[ag]GACAGAAGACCTAGTT TTCAGTTTTGTTTTTCCTCCTCATAGTGCCTACAAGCACGTAAT
57709 I S AGACCGCGAGAAAATGGGACTTATGGGATCGTCT
57709 P C S ATGACGTGGCAGACGTGGGGAGCCTATGGY
57709 P T S CGCGCCGAGGATGGGGAGCCTATGGY
57709 T C S CCTCCCATAGGCTCCCCACGACGATCCCATAAGTCCCATTTTCTCGCGGTCTGA
57709 T T S CCTCCCATAGGCTCCCCATGACGATCCCATAAGTCCCATTTTCTCGCGGTCTGA
57709 IS [ct] aaatgtgggcacagcaaagccacacagcataaagtttaactcctcccataggctcccc a[ct]gacgatcccataagtcccatttctcgcggtctgatttctcctccttccttccaacc att
57711 I S GTTTCTTTTCAAAGGAACCTACCCTTTCCTTATTTTGGTGT
57711 P C S ATGACGTGGCAGACGGAACGACAAGAGTATTTGGY
57711 P T S CGCGCCGAGGAGAACGACAAGAGTATTTGGY
57711 T C S CCAACCAAATACTCTTGTCGTTCCCACCAAAATAAGGAAAGGGTAGGTTCCTTTGAAAAGAAACAG
57711 T T S CCAACCAAATACTCTTGTCGTTCTCACCAAAATAAGGAAAGGGTAGGTTCCTTTGAAAAGAAACAG
57711 IS [ct] TGGACACAGCTTCTTCCCCTCTGTATAGCTATGACTTCCAACCAAATACTCTTGTCGTTC[ct]CACCAAAATAAGGAAAG GGTAGGTTCCTTTGAAAAGAAACAGAATGATTCTGTTGGGAAA
57716 I A TCATTCAAAGGCAGAAAGTGAATGGAGACTGTACTTA
57716 P C A ATGACGTGGCAGACCGGAGAAATACAGTTTTTGTTY
57716 P T A CGCGCCGAGGTGGAGAAATACAGTTTTTGTTGY
57716 T C A AAAACAACAAAAACTGTATTTCTCCGAAGTACAGTCTCCATTCACTTTCTGCCTTTGAATGATA
57716 T T A AAAACAACAAAAACTGTATTTCTCCAAAGTACAGTCTCCATTCACTTTCTGCCTTTGAATGATA
57716 IS [ct] AAACAGGACACATTGTCTCTAGTATCATTCAAAGGCAGAAAGTGAATGGAGACTGTACTT[ct]GGAGAAATACAGTTTTT GTTGTTTTAATAGGTGGAATATACCCATTTTTAAAGTAATGAA
57727 I S ACTCAAGAAAAATCACTGCAGCTTCATGCTGAAGGCT
57727 P C S ATGACGTGGCAGACGGGAGTGAAACCAAAAGAAY
57727 P T S CGCGCCGAGGAGGAGTGAAACCAAAAGAAAY
57727 T C S GGATTTTCTTTTGGTTTCACTCCCGCCTTCAGCATGAAGCTGCAGTGATTTTTCTTGAGTGG


57727 T T S GGATTTTCTTTTGGTTTCACTCCTGCCTTCAGCATGAAGCTGCAGTGATTTTTCTTGAGTGG
TGGATTTGGTTTCCTTTATTGCTCAAGTTTGGCTGGGGGATTTTCTTTTGGTTTCACTCC[ct]GCCTTCAGCATGAAGCT
57727 IS [ct] GCAGTGATTTTTCTTGAGTGGGTGTGTGGAGTGGGGACAGATG
57728 I A GAAGGTGGAAGAGAATAGCACTCACCGAGTACCCT
57728 P A A CGCGCCGAGGACTCTGTGTTGCTAGACAY
57728 P G A ATGACGTGGCAGACGCTCTGTGTTGCTAGACY
57728 T A A ACCCTGTCTAGCAACACAGAGTGGGTACTCGGTGAGTGCTATTCTCTTCCACCTTCCC
57728 T G A ACCCTGTCTAGCAACACAGAGCGGGTACTCGGTGAGTGCTATTCTCTTCCACCTTCCC
CCAAAGGGGAGGAGGGCAGGGAAGGGGAAGGTGGAAGAGAATAGCACTCACCGAGTACCC[ag]CTCTGTGTTGCTAG
57728 IS [ag] ACAGGGTGCTTTACGTGGGCCATCTCCTGCTACACTCATGATGGGC
57733 I S GTGGTTGCTGACCACCAGGCCCTCT
57733 P G S ATGACGTGGCAGACCGGAGAAGAGCAAGTGY
57733 P T S CGCGCCGAGGAGGAGAAGAGCAAGTGTY
57733 T G S CATCACACTTGCTCTTCTCCGGAGGGCCTGGTGGTCAGCAACCACCT
57733 T T S CATCACACTTGCTCTTCTCCTGAGGGCCTGGTGGTCAGCAACCACCT
ATGACTGAGCCTTCCTGACAGAGGTAAGTTTGTCCTGCCCCATCACACTTGCTCTTCTCC[gt]GAGGGCCTGGTGGTC
57733 IS [gt] AGCAACCACCTGACCGAGAGCAGGAGGGGTGGGGACAGGCCCTGG
57744 I S ATGAGAATGACAAAGAAAGGACAAGGGTGGCT
57744 P C S ATGACGTGGCAGACGATTGAGATAGATGCCTTTATTAAGY
57744 P T S CGCGCCGAGGAATTGAGATAGATGCCTTTATTAAGY
57744 T C S TATACTTAATAAAGGCATCTATCTCAATCGCCACCCTTGTCCTTTCTTTGTCATTCTCATGT
57744 T T S TATACTTAATAAAGGCATCTATCTCAATTGCCACCCTTGTCCTTTCTTTGTCATTCTCATGT
CTTTGTCTTCTCTATTCTACACTTCTATACCCTATACTTAATAAAGGCATCTATCTCAAT[ct]GCCACCCTTGTCCTTTCT
57744 IS [ct] TTGTCATTCTCATGTCTTTAACTCTGAACCAACACCCCATCG
57760 I A TGAAGCCTTGAGTTCTTGGCTCAGTGCTGCA
57760 P C A ATGACGTGGCAGACCACTGACGGGAGCAY
57760 P T A CGCGCCGAGGTACTGACGGGAGCATACY
57760 T C A CCAAGTATGCTCCCGTCAGTGGCAGCACTGAGCCAAGAACTCAAGGCTTCAGT
57760 T T A CCAAGTATGCTCCCGTCAGTAGCAGCACTGAGCCAAGAACTCAAGGCTTCAGT
caagcctctggcaaacccagtgccaaaactgaagcctgagttctggctcagtgctgc[ct]actgacgggagcatacttggatgatcctgaacaagttcctcccccctctctgagc
57760 IS [ct] ctcag
57782 I A GCCTGGCCCTGCTGAACTCTGTGGTT
57782 P A A CGCGCCGAGGATATGGGCCTGAGCGY
57782 P G A ATGACGTGGCAGACGTATGGGCCTGAGCGY
57782 T A A GGTCCGCTCAGGCCCATATACCACACAGAGTTCAGCAGGGCCAGGCTG
57782 T G A GGTCCGCTCAGGCCCATACACCACAGAGTTCAGCAGGGCCAGGCTG
CACCTCTCAGCCTGTGGAACTGCCCCCTCCTAGCAGCCTGGCCCTGCTGAACTCTGTGGT[ag]TATGGGCCTGAGCG
57782 IS [ag] GACCTCAGCAGCCATGCTGTCCCAGCAGGTGGCCTCAGTAAAGTGG
57793 I S TCATTCTGCTGCACTGGGGTGGGGAC
57793 P A S CGCGCCGAGGTGCAGGGGAATGATGAY
57793 P C S ATGACGTGGCAGACGGCAGGGGAATGATGAY
57793 T A S ACAATCATCATTCCCCTGCATCCCCACCCCAGTGCAGCAGAATGAAA
57793 T C S ACAATCATCATTCCCCTGCCTCCCCACCCCAGTGCAGCAGAATGAAA
CGTAGAGAGCCTGTTAAACATTTTCTAGCACACCACTGGTGCACAATCATCATTCCCCTGC[ac]TCCCCACCCCAGTGCA
57793 IS [ac] GCAGAATGAAATAGAAGAATACCAGGGTCTATCTACAGTAAAAG
57801 I A CATTGGCAATCCCAGGCTCGTTTCTCAGACTCT
57801 P A A CGCGCCGAGGAGGTATTTTCAGGCTAGAAAGY
57801 P G A ATGACGTGGCAGACGGGTATTTTCAGGCTAGAAAY
57801 T A A GGTCCTTTCTAGCCTGAAAATACCTGAGTCTGAGAAACGAGCCTGGGATTGCCAATGGC
57801 T G A GGTCCTTTCTAGCCTGAAAATACCCGAGTCTGAGAAACGAGCCTGGGATTGCCAATGGC
CTGCCCATGCCTAACACATTTCCACTGCCATTGGCAATCCCAGGCTCGTTTCTCAGACTC[ag]GGTATTTTCAGGCTAG
57801 IS [ag] AAAGGACCTGGAAACGTGTCCTTGGAAGAGCTCTGGACCCGTGT
57809 I A CTGCACAGGGACTGGGAAGGCAAGCT
57809 P A A CGCGCCGAGGAGAGAAACTAAAGAGCGCY
57809 P G A ATGACGTGGCAGACGGAGAAACTAAAGAGCGCY
57809 T A A GCTAGCGCTCTTTAGTTTCTCTGCTTGCCTTCCCAGTCCCTGTGCAGGG
57809 T G A GCTAGCGCTCTTTAGTTTCTCCGCTTGCCTTCCCAGTCCCTGTGCAGGG
ACTGGACGGCGGAGAAAACGATCAAGGGGCAGGCCCTGCACAGGGACTGGGAAGGCAAGC[ag]GAGAAACTAAAGA
57809 IS [ag] GCGCTAGCCAAAATGGTGGAAGAGAATTCTGGGGCTGTGGCACAACT
57814 I A TGTCTTGCAAGTAATATAATTGCACAGATGGTAGACTCCT
57814 P A A CGCGCCGAGGATATGAAGGGCAGATGACTY
57814 P G A ATGACGTGGCAGACGTATGAAGGGCAGATGACY
57814 T A A GATCAGTCATCTGCCCTTCATATGGAGTCTACCATCTGTGCAATTATATTACTTGCAAGACAGT
57814 T G A GATCAGTCATCTGCCCTTCATACGGAGTCTACCATCTGTGCAATTATATTACTTGCAAGACAGT
AAAAAAGGCTGTGATTTGAACTGTCTTGCAAGTAATATAATTGCACAGATGGTAGACTCC[ag]TATGAAGGGCAGATGA
57814 IS [ag] CTGATCCTAGCTAGGATTGGGTACATTGTAGTATATAATATAGA
57821 f A GGAGATAGGGGTAATTGGGGATGACCTCTCTGGAGT
57821 P A A CGCGCCGAGGAGTAACATTAGCAGAGAACAAAY
57821 P G A ATGACGTGGCAGACGGTAACATTAGCAGAGAACAY
57821 T A A GCAATTTGTTCTCTGCTAATGTTACTCTCCAGAGAGGTCATCCCCAATTACCCCTATCTCCCC
57821 T G A GCAATTTGTTCTCTGCTAATGTTACCCTCCAGAGAGGTCATCCCCAATTACCCCTATCTCCCC
tctcaggaatgtgggggtgagtgggagatagggtaattgggagtgctcctctggag[ag]gtaacattagcagagaacaaatgccaggatgggagcagaccattgaagatat
57821 IS [ag] gggggaat
57830 I S CACTGGCCTGAAGTAATGCAACACAGACAGGATTTT
57830 P C S ATGACGTGGCAGACGCACCCAGGTCTTTTTCY
57830 P T S CGCGCCGAGGACACCCAGGTCTTTTTCTY
57830 T C S TCTTAGAAAAAGACCTGGGTGCAAATCCTGTCTGTGTTGCATTACTTCAGGCCAGTGCC
57830 T T S TCTTAGAAAAAGACCTGGGTGTAAATCCTGTCTGTGTTGCATTACTTCAGGCCAGTGCC
TAACTTGGTTGAAGATTATAAAAGTATAAAAGATCTTCATCTTAGAAAAAGACCTGGGTG[ct]AAATCCTGTCTGTGTTG
57830 IS [ct] CATTACTTCAGGCCAGTGCCCATAAAATAAGGACAATCTTACC
57837 I S CAGAACTTGCAGCTGCCACAGATTCAGACATCTTCT
57837 P C S ATGACGTGGCAGACGTCTTCCTGTGGAGCAY
57837 P T S CGCGCCGAGGATCTTCCTGTGGAGCATY
57837 T C S ACAAATGCTCCACAGGAAGACGAAGATGTCTGAATCTGTGGCAGCTGCAAGTTCTGTT
57837 T T S ACAAATGCTCCACAGGAAGATGAAGATGTCTGAATCTGTGGCAGCTGCAAGTTCTGTT
ATATAAGAAAGTCACAGAGATTGTCCTCTGCTATGAAAAGACAAATGCTCCACAGGAAGA[ct]GAAGATGTCTGAATCTG
57837 IS [ct] TGGCAGCTGCAAGTTCTGTTAAAGTATGATTGGGAATGAATGC
57844 I S TGAGCGAGCGTTTACACGGATTTGTGCCTTT
57844 P C S ATGACGTGGCAGACGCACTTGGTTAGCTAACTY
57844 P T S CGCGCCGAGGACACTTGGTTAGCTAACTGY
57844 T C S CTTACAGTTAGCTAACCAAGTGCAAGGCACAAATCCGTGTAAAGCGCTCGCTCAAG
57844 T T S CTTACAGTTAGCTAACCAAGTGTAAGGCACAAATCCGTGTAAACGCTCGCTCAAG
GCTTTTGATTAATTTTAGTAAGAGAATCTCTTGTAAAGCTTACAGTTAGCTAACCAAGTG[ct]AAGGCACAAATCCGTGT
57844 IS [ct] AAACGCTCGCTCAAGAGTGCAAGGTGCTGATTAGATTTCTTTA
57846 I A CTGCTGTCTGATATTACAAATTGTGCTGGGTAATTTACCCCAT
57846 P A A CGCGCCGAGGACCAAAATAGGAGATTTAGAAGCY
57846 P G A ATGACGTGGCAGACGCCAAAATAGGAGATTTAGAAGY
57846 T A A CGATGCTTCTAAATCTCCTATTTTGGTTGGGGTAAATTACCCAGCACAATTTGTAATATCAGACAGCAGTG

57846	T	G	A	CGATGCTTCTAAATCTCCTATTTTGGCTGGGGTAAATTACCCAGCACAATTTGTAATATCAGACAGCAGTG
57846	IS	[ag]		attagcctctcctcacactgctgtctgatatacaaatgtgctgggtaatttaccccc[ag]ccaaaatagggagatttagaagcatcggggagttctggaaatctatcctgcgcgtcaca as
57847	I		S	GAAGCCTTTTAAAAACCTAACAGCCTCCAAAGACTT
57847	P	C	S	ATGACGTGGCAGACGAAGAAGAGAGCATGGTGY
57847	P	T	S	CGCGCCGAGGAAAGAAGAGAGCATGGTGY
57847	T	C	S	TAAACACCATGCTCTCTTCTTCAGTCTTTGGAGGCTGTTAGGTTTTTAAAAGGCTTCTC
57847	T	T	S	TAAACACCATGCTCTCTTCTTTAGTCTTTGGAGGCTGTTAGGTTTTTAAAAGGCTTCTC
57847	IS	[ct]		AGGGAAAAAGCTGACTGTCACAGCTTTCCACCCTGGCATTAAACACCATGCTCTCTTCTT[ct]AGTCTTTGGAGGCTGT TAGGTTTTTAAAAGGCTTCTCTATTGTTAGTTTTCACTTTCGTG
57848	I		S	AGAGATTTAAGGTCCTAGAGGGTTTTCTTTGAAAGTGCT
57848	P	C	S	ATGACGTGGCAGACGAGAGATTGTGAGAGCCAY
57848	P	T	S	CGCGCCGAGGAAGAGATTGTGAGAGCCAY
57848	T	C	S	CATGTGGCTCTCACAATCTCTCGCACTTTCAAAGAAAACCCTCTAGGACCTTAAATCTCTTC
57848	T	T	S	CATGTGGCTCTCACAATCTCTTGCACTTTCAAAGAAAACCCTCTAGGACCTTAAATCTCTTC
57848	IS	[ct]		TATGCACTCTTTCTGCTGGCTGTGTTCCCTCCACCTGTACATGTGGCTCTCACAATCTCT[ct]GCACTTTCAAAGAAAAC CCTCTAGGACCTTAAATCTCTTCTCTTACTCTTTCTGTCTCCA
57867	I		A	AGGTCCTATTAGATCTCCATTGTAAGATGTGGGGGTGGT
57867	P	A	A	CGCGCCGAGGAGCTAAGGCACAGAAAGY
57867	P	G	A	ATGACGTGGCAGACGGCTAAGGCACAGAAAGY
57867	T	A	A	CAGCCTTTCTGTGCCTTAGCTCCACCCCCACATCTTACAATGGAGATCTAATAGGACCTAT
57867	T	G	A	CAGCCTTTCTGTGCCTTAGCCCCACCCCCACATCTTACAATGGAGATCTAATAGGACCTAT
57867	IS	[ag]		tcccagacaacccaagaggatagtcctattagatctccatgtaagatgtgggggtgg[ag]gctaaggcacagaaggcgggtaacttactaagglcacacagccagtaagg gglggag
57871	I		S	TGGGGTGATGTTCCCCTGCCCCTT
57871	P	C	S	ATGACGTGGCAGACGGGCAGATCTGTGTCCY
57871	P	T	S	CGCGCCGAGGAGGCAGATCTGTGTCCY
57871	T	C	S	GAGAGGACACAGATCTGCCCAGGGGCAGGGGAACATCACCCCATC
57871	T	T	S	GAGAGGACACAGATCTGCCTAGGGGCAGGGGAACATCACCCCATC
57871	IS	[ct]		AGTAGGTGCTCAACAAATATTAGAATTAGCTGTGGGGAGCAGAGAGGACACAGATCTGCC[ct]AGGGGCAGGGGAACA TCACCCCATCGAACTGAGGTGAAGAGATGGTGGCTTTGATCACCT
57874	I		S	CTGTCCATCTGGGTGTCACTGGCATAGGGC
57874	P	A	S	CGCGCCGAGGTTGGTGCCTAAGGTCAY
57874	P	T	S	ATGACGTGGCAGACATGGTGCCTAAGGTCATY
57874	T	A	S	GCTCATGACCTTAGGCACCAACCCTATGCCAGTGACACCCAGATGGACAGCT
57874	T	T	S	GCTCATGACCTTAGGCACCATCCCTATGCCAGTGACACCCAGATGGACAGCT
57874	IS	[at]		CTCATCTAACTCCTTCCCTTCTGAGGTGACCCCCACCCAGGCTCATGACCTTAGGCACCA[at]CCCTATGCCAGTGACA CCCAGATGGACAGCTCCTCTCAACCCCAGCTCCAGGCTTGGTTA
57880	I		S	GAGAGGCTTGGGGCAGTGGGGCT
57880	P	C	S	ATGACGTGGCAGACGCGTGCTGGGTATTGY
57880	P	T	S	CGCGCCGAGGACGTGCTGGGTATTGGY
57880	T	C	S	TGGGCCAATACCCAGCACGCGCCCCACTGCCCCAAGCCTCTCTG
57880	T	T	S	TGGGCCAATACCCAGCACGTGCCCCACTGCCCCAAGCCTCTCTG
57880	IS	[ct]		TCAACAGAACCGTCTCGCCCTCTACAGCCACCACAGCCACGTGGGCCAATACCCAGCACG[ct]GCCCCACTGCCCCAA GCCTCTCTGCCGGCGTGGCTCTCCCCCAACCTCACTCTCAATACA
57881	I		A	GCTTCCTCAAGTCCCTGCAGGGGCT
57881	P	A	A	CGCGCCGAGGACTGGTTGTCTCCAGGY
57881	P	G	A	ATGACGTGGCAGACGCTGGTTGTCTCCAGGY
57881	T	A	A	AAGGCCTGGAGACAACCAGTGCCCCTGCAGGGACTTGAGGAAGCCA
57881	T	G	A	AAGGCCTGGAGACAACCAGCGCCCCTGCAGGGACTTGAGGAAGCCA
57881	IS	[ag]		GGAGGGACAGGCCGGGCATCTGTGCCCCTGACTTTGGCTTCCTCAAGTCCCTGCAGGGGC[ag]CTGGTTGTCTCCAG GCCTTCCTGAGCGCAGGTGCTTTGCAGGAGACTCCAAGTGCCAGAG
57914	I		A	CAAACTCAATTATTTTCCCAAAGAACTCACTCTGCCTT
57914	P	A	A	CGCGCCGAGGAATCTCACTGTCCTGGTTY
57914	P	C	A	ATGACGTGGCAGACCATCTCACTGTCCTGGTY
57914	T	A	A	CCTTAACCAGGACAGTGAGATTAGGCAGAGTGAGTTCTTTGGGAAAATAATTGAGTTTGAT
57914	T	C	A	CCTTAACCAGGACAGTGAGATGAGGCAGAGTGAGTTCTTTGGGAAAATAATTGAGTTTGAT
57914	IS	[ac]		TCTACATTCAACGTATCTAATATCAAACTCAATTATTTTCCCAAAGAACTCACTCTGCCT[ac]ATCTCACTGTCCTGGTTA AGGACTAAAAAAATTGGTGCCATTCATTACTTTCTCCCCCTC
57923	I		A	AAAAGGATTGACAAAATGGAAATGGTTCAGATGTTTAAATCCATT
57923	P	A	A	CGCGCCGAGGATCCTCAACTTCGGGGY
57923	P	G	A	ATGACGTGGCAGACGTCCTCAACTTCGGGGY
57923	T	A	A	CAAACCCCGAAGTTGAGGATATGGATTTAAACATCTGAACCATTTCCATTTTGTCAATCCTTTTAA
57923	T	G	A	CAAACCCCGAAGTTGAGGACATGGATTTAAACATCTGAACCATTTCCATTTTGTCAATCCTTTTAA
57923	IS	[ag]		AGAAGGAAAGTTGGTTAAAAGGATTGACAAAATGGAAATGGTTCAGATGTTTAAATCCAT[ag]TCCTCAACTTCGGGGT TTGAGTGTGTATGTCTAGATTGTGATTTTGGGTTAGTTTTTAGT
57927	I		A	CTGCATCGGAAGCCATGGCACAACCAT
57927	P	A	A	CGCGCCGAGGACTCTCCAGGTGACTGY
57927	P	G	A	ATGACGTGGCAGACGCTCTCCAGGTGACTGY
57927	T	A	A	GCCTCAGTCACCTGGAGAGTTGGTTGTGCCATGGCTTCCGATGCAGCA
57927	T	G	A	GCCTCAGTCACCTGGAGAGCTGGTTGTGCCATGGCTTCCGATGCAGCA
57927	IS	[ag]		GAAATGCACACCTCTGGGGCGCACTCCAGACTTGCTGCATCGGAAGCCATGGCACAACCA[ag]CTCTCCAGGTGACTG AGGCTAACACAAGTTTGAGAACTACTGCCCTGGCCCTTGCTTTCT
57967	I		A	CCCAGGCCAACTAGGGAGCACCGA
57967	P	C	A	ATGACGTGGCAGACCCCAGCATGAGGAGTY
57967	P	T	A	CGCGCCGAGGTCCAGCATGAGGAGTGY
57967	T	C	A	GTTTCACTCCTCATGCTGGGCGGTGCTCCCTAGTTGGCCTGGGCT
57967	T	T	A	GTTTCACTCCTCATGCTGGACGGTGCTCCCTAGTTGGCCTGGGCT
57967	IS	[ct]		CATGGAGGATGCAGAGGGCACAGTCACCACGCAGCAGCCCAGGCCAACTAGGGAGCACCG[ct]CCAGCATGAGGAGT GAAACCCCGGCACACACGACACAGAGAGCCCCGGGAACATCAGGCT
57973	I		S	CGCTCGCCCCGGAGCCAGCA
57973	P	A	S	CGCGCCGAGGTGGGCAGACCAGGY
57973	P	G	S	ATGACGTGGCAGACCGGGCAGACCAGGY
57973	T	A	S	GCAGCCTGGTCTGCCCAGCTGGCTCCGGGGCGAGCGTG
57973	T	G	S	GCAGCCTGGTCTGCCCGGCTGGCTCCGGGGCGAGCGTG
57973	IS	[ag]		CTATGACGAGCTCCACACTGCCCTCCCCCAGGAGGTCCCATCCTGCAGCCTGGTCTGCCC[ag]GCTGGCTCCGGGGC GAGCGTGAGGGCCAGGCAGCTCAGCCCTCTAACACGTCTCTTCTCT
57974	I		A	CATTCATCCCCACCCACTGGTCTCTGGGT
57974	P	A	A	CGCGCCGAGGATAGAATAAACTTCGGAAGCTTY
57974	P	G	A	ATGACGTGGCAGACGTAGAATAAACTTCGGAAGCTY
57974	T	A	A	TAGGAAGCTTCCGAAGTTTATTCTATCCCAGAGACCAGTGGGTGGGGATGAATGTC
57974	T	G	A	TAGGAAGCTTCCGAAGTTTATTCTACCCCAGAGACCAGTGGGTGGGGATGAATGTC
57974	IS	[ag]		gagctaaactaggcatatagtaatgaccctgacattcatcccccacccactggtctctggg[ag]tagaataaacttcggaagcttcctatgtagaggcgaccatagtagagaactga aatctca
57975	I		S	AGGACTGAATAACATAGTTGGTAAGGCGGGTAGCTCAT
57975	P	C	S	ATGACGTGGCAGACGTACTTGGGAAGCAGTTAAY
57975	P	T	S	CGCGCCGAGGATACTTGGGAAGCAGTTAACY
57975	T	C	S	TTTGGTTAACTGCTTCCCAAGTACTGAGCTACCCGCCTTACCAACTATGTTATTCAGTCCTTA

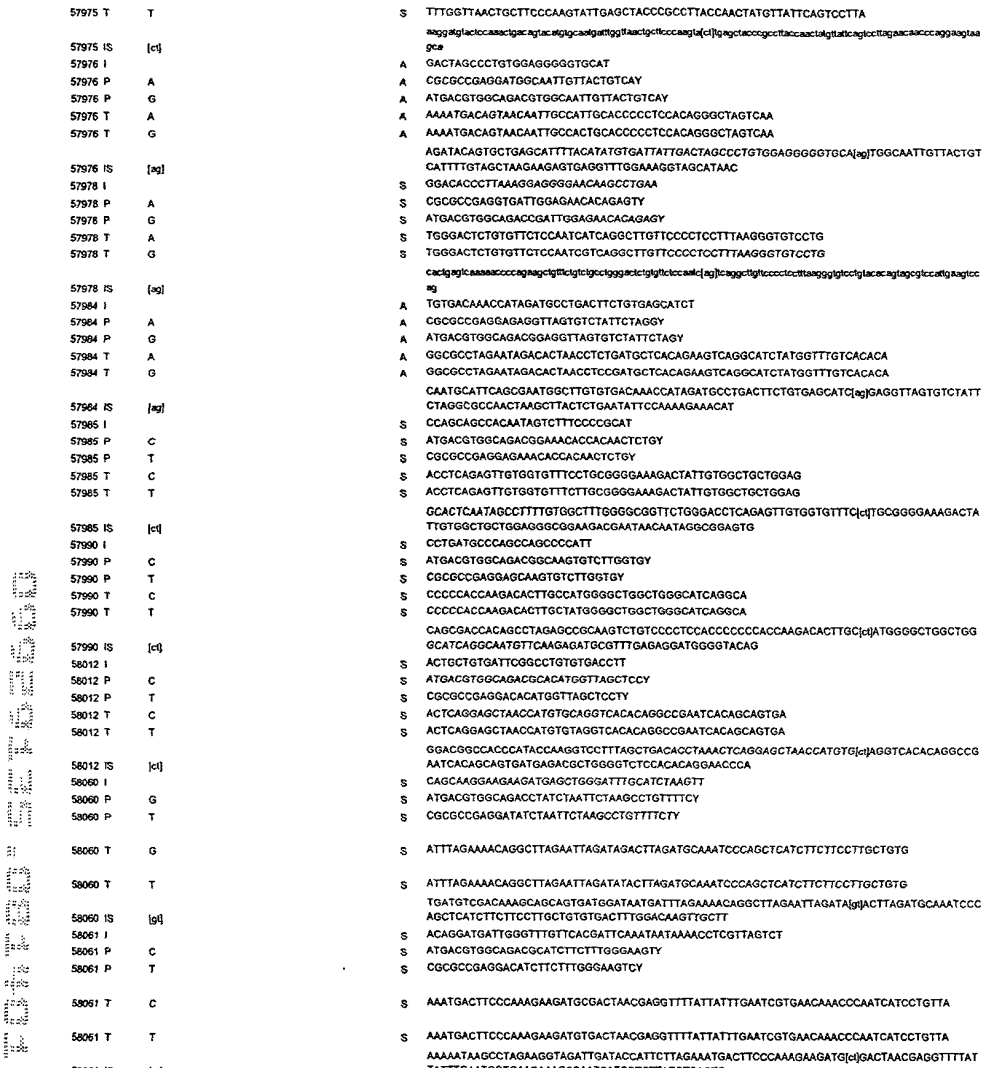

57975 T T S TTTGGTTAACTGCTTCCCAAGTATTGAGCTACCCGCCTTACCAACTATGTTATTCAGTCCTTA
aggatgtactccaaactgacagtacatgtgcaatgattggttaactgcttcccaagta[ct]tgagctaccccgccttaccaactatgttattcagtccttagaacaacccaggaagtaa
57975 IS [ct] gca
57976 I A GACTAGCCCTGTGGAGGGGGTGCAT
57976 P A A CGCGCCGAGGATGGCAATTGTTACTGTCAY
57976 P G A ATGACGTGGCAGACGTGGCAATTGTTACTGTCAY
57976 T A A AAAATGACAGTAACAATTGCCATTGCACCCCCTCCACAGGGCTAGTCAA
57976 T G A AAAATGACAGTAACAATTGCCACTGCACCCCCTCCACAGGGCTAGTCAA
AGATACAGTGCTGAGCATTTTACATATGTGATTATTGACTAGCCCTGTGGAGGGGGTGCA[ag]TGGCAATTGTTACTGT
57976 IS [ag] CATTTTGTAGCTAAGAAGAGTGAGGTTTGGAAAGGTAGCATAAC
57978 I S GGACACCCTTAAAGGAGGGGAACAAGCCTGAA
57978 P A S CGCGCCGAGGTGATTGGAGAACACAGAGTY
57978 P G S ATGACGTGGCAGACCGATTGGAGAACACAGAGY
57978 T A S TGGGACTCTGTGTTCTCCAATCATCAGGCTTGTTCCCCTCCTTTAAGGGTGTCCTG
57978 T G S TGGGACTCTGTGTTCTCCAATCGTCAGGCTTGTTCCCCTCCTTTAAGGGTGTCCTG
cactgagtcaaaaacccagaagctgttctgtctggcttgggactctgtgttctccaatc[ag]tcaggctgttcccctccttaagggtgtcctgtacacagtagcgtccattgtaagtcc
57978 IS [ag] ag
57984 I A TGTGACAAACCATAGATGCCTGACTTCTGTGAGCATCT
57984 P A A CGCGCCGAGGAGAGGTTAGTGTCTATTCTAGGY
57984 P G A ATGACGTGGCAGACGGAGGTTAGTGTCTATTCTAGY
57984 T A A GGCGCCTAGAATAGACACTAACCTCTGATGCTCACAGAAGTCAGGCATCTATGGTTTGTCACACA
57984 T G A GGCGCCTAGAATAGACACTAACCTCCGATGCTCACAGAAGTCAGGCATCTATGGTTTGTCACACA
CAATGCATTCAGCGAATGGCTTGTGTGACAAACCATAGATGCCTGACTTCTGTGAGCATC[ag]GAGGTTAGTGTCTATT
57984 IS [ag] CTAGGCGCCAACTAAGCTTACTCTGAATATTCCAAAAGAAACAT
57985 I S CCAGCAGCCACAATAGTCTTTCCCCGCAT
57985 P C S ATGACGTGGCAGACGGAAACACCACAACTCTGY
57985 P T S CGCGCCGAGGAGAAACACCACAACTCTGY
57985 T C S ACCTCAGAGTTGTGGTGTTTCCTGCGGGGAAAGACTATTGTGGCTGCTGGAG
57985 T T S ACCTCAGAGTTGTGGTGTTTCTTGCGGGGAAAGACTATTGTGGCTGCTGGAG
GCACTCAATAGCCTTTTGTGGCTTTGGGGCGGTTCTGGGACCTCAGAGTTGTGGTGTTTC[ct]TGCGGGGAAAGACTA
57985 IS [ct] TTGTGGCTGCTGGAGGGCGGAAGACGAATAACAATAGGCGGAGTG
57990 I S CCTGATGCCCAGCCAGCCCCATT
57990 P C S ATGACGTGGCAGACGGCAAGTGTCTTGGTGY
57990 P T S CGCGCCGAGGAGCAAGTGTCTTGGTGY
57990 T C S CCCCCACCAAGACACTTGCCATGGGGCTGGCTGGGCATCAGGCA
57990 T T S CCCCCACCAAGACACTTGCTATGGGGCTGGCTGGGCATCAGGCA
CAGCGACCACAGCCTAGAGCCGCAAGTCTGTCCCCTCCACCCCCCCACCAAGACACTTGC[ct]ATGGGGCTGGCTGG
57990 IS [ct] GCATCAGGCAATGTTCAAGAGATGCGTTTGAGAGGATGGGGTACAG
58012 I S ACTGCTGTGATTCGGCCTGTGTGACCTT
58012 P C S ATGACGTGGCAGACGCACATGGTTAGCTCCY
58012 P T S CGCGCCGAGGACACATGGTTAGCTCCTY
58012 T C S ACTCAGGAGCTAACCATGTGCAGGTCACACAGGCCGAATCACAGCAGTGA
58012 T T S ACTCAGGAGCTAACCATGTGTAGGTCACACAGGCCGAATCACAGCAGTGA
GGACGGCCACCCATACCAAGGTCCTTTAGCTGACACCTAAACTCAGGAGCTAACCATGTG[ct]AGGTCACACAGGCCG
58012 IS [ct] AATCACAGCAGTGATGAGACGCTGGGGTCTCCACACAGGAACCCA
58060 I S CAGCAAGGAAGAAGATGAGCTGGGATTTGCATCTAAGTT
58060 P G S ATGACGTGGCAGACCTATCTAATTCTAAGCCTGTTTTCY
58060 P T S CGCGCCGAGGATATCTAATTCTAAGCCTGTTTTCTY
58060 T G S ATTTAGAAAACAGGCTTAGAATTAGATAGACTTAGATGCAAATCCCAGCTCATCTTCTTCCTTGCTGTG
58060 T T S ATTTAGAAAACAGGCTTAGAATTAGATATACTTAGATGCAAATCCCAGCTCATCTTCTTCCTTGCTGTG
TGATGTCGACAAAGCAGCAGTGATGGATAATGATTTAGAAAACAGGCTTAGAATTAGATA[gt]ACTTAGATGCAAATCCC
58060 IS [gt] AGCTCATCTTCTTCCTTGCTGTGTGACTTTGGACAAGTTGCTT
58061 I S ACAGGATGATTGGGTTTGTTCACGATTCAAATAATAAAACCTCGTTAGTCT
58061 P C S ATGACGTGGCAGACGCATCTTCTTTGGGAAGTY
58061 P T S CGCGCCGAGGACATCTTCTTTGGGAAGTCY
58061 T C S AAATGACTTCCCAAAGAAGATGCGACTAACGAGGTTTTATTATTTGAATCGTGAACAAACCCAATCATCCTGTTA
58061 T T S AAATGACTTCCCAAAGAAGATGTGACTAACGAGGTTTTATTATTTGAATCGTGAACAAACCCAATCATCCTGTTA
AAAAATAAGCCTAGAAGGTAGATTGATACCATTCTTAGAAATGACTTCCCAAAGAAGATG[ct]GACTAACGAGGTTTTAT
58061 IS [ct] TATTTGAATCGTGAACAAACCCAATCATCCTGTTATGTCACTG
58105 I S CCATTGTGTGCCTGTGCCTTCCTACAAGATCGA
58105 P A S CGCGCCGAGGTCCTCAAACCCTGAGCY
58105 P G S ATGACGTGGCAGACCCCTCAAACCCTGAGCY
58105 T A S ACATGCTCAGGGTTTGAGGACGATCTTGTAGGAAGGCACAGGCACACAATGGGA
58105 T G S ACATGCTCAGGGTTTGAGGGCGATCTTGTAGGAAGGCACAGGCACACAATGGGA
tgactgatctggcccctctgcaaaaaggaagcacacagaaaacatgctcagggttgagg[ag]cgatcttgtaggaaggcacaggcacacaatgggaagctgtagttcctgcagc
58105 IS [ag] tccggcac
58106 I A GGTACAGGCAGCACATGATGGAAGGAATTCTCGAGT
58106 P A A CGCGCCGAGGACAAAGCCCAGGAAATGY
58106 P G A ATGACGTGGCAGACGCAAAGCCCAGGAAATY
58106 T A A AGTGCATTTCCTGGGCTTTGTCTCGAGAATTCCTTCCATCATGTGCTGCCTGTACCCC
58106 T G A AGTGCATTTCCTGGGCTTTGCCTCGAGAATTCCTTCCATCATGTGCTGCCTGTACCCC
atttttgcaaggatgaaacaggggctacaggcagcacatgatggaaggaatctcgag[ag]caaagcccaggaaatgcactgatgatcatcttctgggagcagaatcaaaact
58106 IS [ag] gttggtg
58167 I A GGAAAGGGCCACGGTAAACACACCAAACCTTC
58167 P G A ATGACGTGGCAGACGGGTCGGGATCCTAAAY
58167 P T A CGCGCCGAGGTGGTCGGGATCCTAAAGY
58167 T G A AACTCTTTAGGATCCCGACCCAAGGTTTGGTGTGTTTACCGTGGCCCTTTCCTG
58167 T T A AACTCTTTAGGATCCCGACCAAAGGTTTGGTGTGTTTACCGTGGCCCTTTCCTG
AGACATAAATTTGAGCTCAGGACCCACCAGGAAAGGGCCACGGTAAACACACCAAACCTT[gt]GGTCGGGATCCTAAA
58167 IS [gt] GAGTTATACCCTCGCTGTAATAACAAGAGACAGTCCAGCCTTCAC
58184 I A TTCATAGCTGTGCAATGCTGGACCAGCCTT
58184 P C A CGCGCCGAGGCTTTGCCTCTCTGTGCY
58184 P G A ATGACGTGGCAGACGTTTGCCTCTCTGTGCY
58184 T C A CGAGGCACAGAGAGGCAAAGAGGCTGGTCCAGCATTGCACAGCTATGAAGG
58184 T G A CGAGGCACAGAGAGGCAAACAGGCTGGTCCAGCATTGCACAGCTATGAAGG
ctgatgaggcttgaacccctagcccgcccttcatagctgtgcaatgctggaccagcct[cg]ttgcctctctgtgcctcggtttctcaccataagcgaggctgccatagaaccctc
58184 IS [cg] tcc
58235 I S GGCTTGCTGACTAGCAAAGGCAAAGACGCTAT
58235 P C S ATGACGTGGCAGACGAATAGCAGGCTTCAGAAAY
58235 P T S CGCGCCGAGGAAATAGCAGGCTTCAGAAAY
58235 T C S TATGTTTCTGAAGCCTGCTATTCTAGCGTCTTTGCCTTTGCTAGTCAGCAAGCCCA
58235 T T S TATGTTTCTGAAGCCTGCTATTTTAGCGTCTTTGCCTTTGCTAGTCAGCAAGCCCA
58235 IS [ct] ctccgtttgcagcctcccatcctctcttctcctatgttctgaagcctgctatt[ct]agcgtctttgccttgctagtcagcaagcccaggatttgttttttcaagcgtctagta
58242 I S GTAATCTCAGGGTCTCTCCCCTACCCCCACT

FIGURE 129D

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58242 P  C   S  ATGACGTGGCAGACGTCACAGCCTTTATCATTTCY
58242 P  G   S  CGCGCCGAGGCTCACAGCCTTTATCATTTCY
58242 T  C   S  AGAGGAAATGATAAAGGCTGTGACGTGGGGGTAGGGGAGAGACCCTGAGATTACCC
58242 T  G   S  AGAGGAAATGATAAAGGCTGTGAGGTGGGGGTAGGGGAGAGACCCTGAGATTACCC
58242 IS [cg]   TTCTCTAAGACCACTCAGGAGACCTGGGGGCAAGATCAGAGGAAATGATAAAGGCTGTGA[cg]GTGGGGGTAGGGGA
                GAGACCCTGAGATTACCCGGAATGGACCAAGAAAAACGGGCCCTGA
58280 I          A  TCCACAGGTATCCACATCCTAATCCCCAGAACCTACT
58280 P  A   A  CGCGCCGAGGAAGTACAGGGCAAAAGGY
58280 P  G   A  ATGACGTGGCAGACGAGTACAGGGCAAAAGGY
58280 T  A   A  AATTCCTTTTGCCCTGTACTTGTAGGTTCTGGGGATTAGGATGTGGATACCTGTGGAAG
58280 T  G   A  AATTCCTTTTGCCCTGTACTCGTAGGTTCTGGGGATTAGGATGTGGATACCTGTGGAAG
58280 IS [ag]   GGTTCAACAATCCCTTCCCTTCCTTCCACAGGTATCCACATCCTAATCCCCAGAACCTAC[ag]AGTACAGGGCAAAAGG
                AATTCCACAGATGTGGTTGAGTTAAGGGTCTTGCTATGAGGAGA
58282 I          A  CAATCAAAATGCAAGGAGACTATGCAGGTCCTGATGAGAAT
58282 P  A   A  CGCGCCGAGGAAAAGGAGCTGGTGAGTY
58282 P  C   A  ATGACGTGGCAGACCAAAGGAGCTGGTGAGY
58282 T  A   A  TCCTACTCACCAGCTCCTTTTTTCTCATCAGGACCTGCATAGTCTCCTTGCATTTTGATTGGA
58282 T  C   A  TCCTACTCACCAGCTCCTTTGTTCTCATCAGGACCTGCATAGTCTCCTTGCATTTTGATTGGA
58282 IS [ac]   GCTCTAGCCTATCTAGTGTCCAATCAAAATGCAAGGAGACTATGCAGGTCCTGATGAGAA[ac]AAAGGAGCTGGTGAG
                TAGGACAGTAGGGAACAGTGCCAGGGCCTGGCCTCAGTGAGCACC
58283 I          A  GTTGAGGAGTGAGAAATTTGAAAAGTAGAACATACCAGGCCGT
58283 P  A   A  CGCGCCGAGGAGAGAACAACATGTGCTGY
58283 P  G   A  ATGACGTGGCAGACGGAGAACAACATGTGCTY
58283 T  A   A  AAAGCAGCACATGTTGTTCTCTCGGCCTGGTATGTTCTACTTTTCAAATTTCTCACTCCTCAACCT
58283 T  G   A  AAAGCAGCACATGTTGTTCTCCCGGCCTGGTATGTTCTACTTTTCAAATTTCTCACTCCTCAACCT
58283 IS [ag]   ttcaggcagaagctaaggttgaggagtgagaaatttgaaaagtagaacataccaggccg[ag]gagaacaacatgtgctgcttcatgcaggaaaatgagcccaagatgaggca
                ggggccagt
58284 I          S  GGCCCTGAATCTAGGAGGATTCTTAGATCGCTGGAT
58284 P  G   S  ATGACGTGGCAGACCCCAAATGTCCCTGGTY
58284 P  T   S  CGCGCCGAGGACCAAATGTCCCTGGTY
58284 T  G   S  TTTAACCAGGGACATTTGGGTCCAGCGATCTAAGAATCCTCCTAGATTCAGGGCCTG
58284 T  T   S  TTTAACCAGGGACATTTGGTTCCAGCGATCTAAGAATCCTCCTAGATTCAGGGCCTG
58284 IS [gt]   ATCTCTGGAGTGGGTGTCGAGGGGATTCCAGCAGTGGGATCTTTAACCAGGGACATTTGG[gt]TCCAGCGATCTAAGA
                ATCCTCCTAGATTCAGGGCCTGAAGCTTTCCTCACTTGACTGACA
58286 I          S  CTGGGCCTGGGCCTGGGGATT
58286 P  C   S  ATGACGTGGCAGACGGGGATGGGAGCTAGY
58286 P  T   S  CGCGCCGAGGAGGGATGGGAGCTAGY
58286 T  C   S  TGTCCTAGCTCCCATCCCCATCCCCAGGCCCAGGCCCAGGC
58286 T  T   S  TGTCCTAGCTCCCATCCCTATCCCCAGGCCCAGGCCCAGGC
58286 IS [ct]   AAAGGGGTGACGGGCAGTGGGGGGCTTGGGACTCCGCCGAGGTGTCCTAGCTCCCATCCC[ct]ATCCCCAGGCCCA
                GGCCCAGGCCCCTCCAGCATGAAAGGCTAGGGACCGCACTGCCATGG
58288 I          S  CCACCAAGTCATCTTGGAGGAGAACTTTGAACCCTCTAT
58288 P  C   S  ATGACGTGGCAGACGGTCCTAGGCAAGGGY
58288 P  T   S  CGCGCCGAGGAGTCCTAGGCAAGGGAY
58288 T  C   S  CTCCTCCCTTGCCTAGGACCTAGAGGGTTCAAAGTTCTCCTCCAAGATGACTTGGTGGGC
58288 T  T   S  CTCCTCCCTTGCCTAGGACTTAGAGGGTTCAAAGTTCTCCTCCAAGATGACTTGGTGGGC
58288 IS [ct]   GTTACACTGACCGCAGCCCAGCACCTGCTCTGCCCATTCCCCTCCTCCCTTGCCTAGGAC[ct]TAGAGGGTTCAAAGTT
                CTCCTCCAAGATGACTTGGTGGGCTTTGACCATCCCACCCTAGG
58297 I          A  AGGGAACTCACTCCAGATGGCATAGTGTT
58297 P  A   A  CGCGCCGAGGATGAAGTGAGCAGGCAY
58297 P  C   A  ATGACGTGGCAGACCTGAAGTGAGCAGGCAY
58297 T  A   A  GAGATGCCTGCTCACTTCATACACTATGCCATCTGGAGTGAGTTCCCTCT
58297 T  C   A  GAGATGCCTGCTCACTTCAGACACTATGCCATCTGGAGTGAGTTCCCTCT
58297 IS [ac]   ATTTTCAGCAAAAAGGAGAGGAATAAAATAAGAGGGAACTCACTCCAGATGGCATAGTGT[ac]TGAAGTGAGCAGGCAT
                CTCTTCCCCTTTTCTAGCATCAGCTTTTCCCCATTTTTGTATCT
58301 I          S  ACCCACTTAGGGGAAAACCACGGCCCT
58301 P  C   S  ATGACGTGGCAGACGGCAACAGCTCTGTGY
58301 P  T   S  CGCGCCGAGGAGCAACAGCTCTGTGGY
58301 T  C   S  GCAGCCACAGAGCTGTTGCCGGGCCGTGGTTTTCCCCTAAGTGGGTGG
58301 T  T   S  GCAGCCACAGAGCTGTTGCTGGGCCGTGGTTTTCCCCTAAGTGGGTGG
58301 IS [ct]   ttctacgtgaacacagaagctcctcagcctcctgggctgcagccacagagctgttgc[ct]gggccgtggttttcccctaagtgggtggaacagtggctccgtgtccagaggccg
                ggcacc
58303 I          S  ACCCTGTCCTCAGGAATTGCAGAATGGTAGGGT
58303 P  C   S  ATGACGTGGCAGACGACCTGACAGGAGGCY
58303 P  T   S  CGCGCCGAGGAACCTGACAGGAGGCY
58303 T  C   S  ATTGGCCTCCTGTCAGGTCCCCTACCATTCTGCAATTCCTGAGGACAGGGTCC
58303 T  T   S  ATTGGCCTCCTGTCAGGTTCCCTACCATTCTGCAATTCCTGAGGACAGGGTCC
58303 IS [ct]   tcacaagctgtgttactaagaggaacacactgaattgtcaggattggcctcctgtcagg[ct]ccctaccattctgcaattcctgaggacagggtccatgcccctggtgtcttggacttca
                ag
58304 I          A  TGGAGATCGAGTCAAAACTGACCACAAACCTGGGT
58304 P  A   A  CGCGCCGAGGAAACAGGAAACTTAAGCCCY
58304 P  G   A  ATGACGTGGCAGACGAACAGGAAACTTAAGCCCY
58304 T  A   A  GACAGGGCTTAAGTTTCCTGTTTCCCAGGTTTGTGGTCAGTTTTGACTCGATCTCCAGA
58304 T  G   A  GACAGGGCTTAAGTTTCCTGTTCCCCAGGTTTGTGGTCAGTTTTGACTCGATCTCCAGA
58304 IS [ag]   GTTCATTTACTATTTTACCTTGTTTCTGGAGATCGAGTCAAAACTGACCACAAACCTGGG[ag]AACAGGAAACTTAAGCC
                CTGTCTTAATCCAGATTATCTCTGGACCTAGAGATGAGGGAGT
58310 I          S  CCTCTTTTCTGCTGTGATACCTAGGTCAACAAAGTAGGGAACC
58310 P  A   S  CGCGCCGAGGTATCAGGGACTAACCTAATCCY
58310 P  C   S  ATGACGTGGCAGACGATCAGGGACTAACCTAATCY
58310 T  A   S  TTATGGATTAGGTTAGTCCCTGATAGTTCCCTACTTTGTTGACCTAGGTATCACAGCAGAAAAGAGGAG
58310 T  C   S  TTATGGATTAGGTTAGTCCCTGATCGTTCCCTACTTTGTTGACCTAGGTATCACAGCAGAAAAGAGGAG
58310 IS [ac]   TCTGGATCAAGTATGAATGTTACTTAATAATGTTATTTATGGATTAGGTTAGTCCCTGAT[ac]GTTCCCTACTTTGTTGA
                CCTAGGTATCACAGCAGAAAAGAGGAGACAATGGGCCGGGCGT
58312 I          S  GGCAGTTCTCCAGTATTGGAATTCTCACCTTCTTCCTT
58312 P  C   S  ATGACGTGGCAGACGGGCTGACTGCTTTTCY
58312 P  T   S  CGCGCCGAGGAGGCTGACTGCTTTTCY
58312 T  C   S  CTGGGAAAAGCAGTCAGCCCAGGAAGAAGGTGAGAATTCCAATACTGGAGAACTGCCCT
58312 T  T   S  CTGGGAAAAGCAGTCAGCCTAGGAAGAAGGTGAGAATTCCAATACTGGAGAACTGCCCT
58312 IS [ct]   ggtgagaactagtcacgtgcctctcctagattcaaggagagctgggaaaagcagtcagcc[ct]aggaagaaggtgagaattccaatactggagaactgccctagttatctgtgca
                gtgaact
58316 I          A  GGGCTGACCTGTGATCCAGCACTTGTCTAGT
58316 P  A   A  CGCGCCGAGGAGTCCTCTGCCTAATGAAY
58316 P  G   A  ATGACGTGGCAGACGGTCCTCTGCCTAATGAY
58316 T  A   A  TGTCTTCATTAGGCAGAGGACTCTAGACAAGTGCTGGATCACAGGTCAGCCCCT
58316 T  G   A  TGTCTTCATTAGGCAGAGGACCCTAGACAAGTGCTGGATCACAGGTCAGCCCCT
58316 IS [ag]   ttgggaatagcaggtatagcagttgggaaggggctgacctgtgatccagcactgtctag[ag]gtcctctgcctaatgaagacattgcttaccttcctgtgctgcatccattcccctaccc
                cc
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58318	I		S	GGATGCATCCCCTTTCTCTTCCCAGACCATCAT
58318	P	C	S	ATGACGTGGCAGACGCCTCTTCCCATTTCCY
58318	P	T	S	CGCGCCGAGGACCTCTTCCCATTTCCAY
58318	T	C	S	GGTTTGGAAATGGGAAGAGGCTGATGGTCTGGGAAGAGAAAGGGGATGCATCCAC
58318	T	T	S	GGTTTGGAAATGGGAAGAGGTTGATGGTCTGGGAAGAGAAAGGGGATGCATCCAC
58318	IS	[ct]		tgctacctatacgtagagaaaaattgattgctgctcatgactggttggaaatgggaagaggg[ct]tgatggtctgggaagagaaaggggatgcatccacaactaaattgaaactctggct g!999
58319	I		S	GAGCGTTCTATTTGCTCATCCTCATGGCCAACAGC
58319	P	A	S	CGCGCCGAGGTTGTTTGTGGAGGGAGAY
58319	P	T	S	ATGACGTGGCAGACATGTTTGTGGAGGGAGAY
58319	T	A	S	GACATCTCCCTCCACAAACATCTGTTGGCCATGAGGATGAGCAAATAGAACGCTCTA
58319	T	T	S	GACATCTCCCTCCACAAACATCTGTTGGCCATGAGGATGAGCAAATAGAACGCTCTA
58319	IS	[at]		CACATAGTTAACCAGTAGCAATGGCAGCCCCCTGCTTGCTGACATCTCCCTCCACAAACA[at]CTGTTGGCCATGAGGA TGAGCAAATAGAACGCTCTAGCAAATCCAGGCAGGTTGGGGGAG
58320	I		A	CTTACTCATGTCCCTTGGAAATTAAGAAGGAAGCCAGGAGT
58320	P	A	A	CGCGCCGAGGAATAGCTGCCATAACCAGY
58320	P	C	A	ATGACGTGGCAGACCATAGCTGCCATAACCAGY
58320	T	A	A	ATCCCTGGTTATGGCAGCTATTCTCCTGGCTTCCTTCTTAATTTCCAAGGGACATGAGTAAGCA
58320	T	C	A	ATCCCTGGTTATGGCAGCTATGCTCCTGGCTTCCTTCTTAATTTCCAAGGGACATGAGTAAGCA
58320	IS	[ac]		cccgaaatactcctccactgcttactcatgtccctggaaattaagaaggaagccaggag[ac]atagctgccataaccagggatgaactfctlgtccactgctgcctgctatgctagc aacag
58322	I		A	CACAGTTCTGAAGAAAAAGGCAGGATTCTGTGTAGCCT
58322	P	A	A	CGCGCCGAGGAGGTAAATTTCTGTGTAACAAATCY
58322	P	G	A	ATGACGTGGCAGACGGGTAAATTTCTGTGTAACAAATY
58322	T	A	A	CCCGGATTTGTTACACAGAAATTTACCTGGCTACACAGAATCCTGCCTTTTTCTTCAGAACTGTGCT
58322	T	G	A	CCCGGATTTGTTACACAGAAATTTACCCGGCTACACAGAATCCTGCCTTTTTCTTCAGAACTGTGCT
58322	IS	[ag]		ACCAAGGCTTTGGCACAATGAAGCACAGTTCTGAAGAAAAAGGCAGGATTCTGTGTAGCC[ag]GGTAAATTTCTGTGTA ACAAATCCGGGTTATGTAGAATAAAGATGATCTCTGGATATCAA
58323	I		S	CAAGGAGGAAGGAAGAGAAGAGCTCCCTACCCT
58323	P	C	S	ATGACGTGGCAGACGCCTGAGAAGCAGCTY
58323	P	G	S	CGCGCCGAGGCCCTGAGAAGCAGCTY
58323	T	C	S	CTCCAGCTGCTTCTCAGGCGGGTAGGGAGCTCTTCTCTTCCTTCCTCCTTGTT
58323	T	G	S	CTCCAGCTGCTTCTCAGGGGGGTAGGGAGCTCTTCTCTTCCTTCCTCCTTGTT
58323	IS	[cg]		tttctcagaatgcctctgggtggtttgaaagtattaagctctccagctgcttctcagg[cg]gggtagggagctcttctcttcctccttgttctgtctgagttgttaggactcaaaaa
58324	I		S	GGTGATAATTGCCTTATCTCTGATTCCATTCTCTTTCTGGATCTTCTGTTAT
58324	P	C	S	ATGACGTGGCAGACGATGTTGGATCACCTGGY
58324	P	T	S	CGCGCCGAGGAATGTTGGATCACCTGGAY
58324	T	C	S	TCTGTCCAGGTGATCCAACATCTAACAGAAGATCCAGAAAGAGAATGGAATCAGAGATAAGGCAATTATCACCGA
58324	T	T	S	TCTGTCCAGGTGATCCAACATTTAACAGAAGATCCAGAAAGAGAATGGAATCAGAGATAAGGCAATTATCACCGA
58324	IS	[ct]		AAAAAAAAACAGGAGAAAAATTGATTAGAAATTCAGAAAATCTGTCCAGGTGATCCAACAT]ct]TAACAGAAGATCCAGAA AGAGAATGGAATCAGAGATAAGGCAATTATCACCGAAGTAACT
58345	I		S	GTGAAGGCGGGAGTCTCCTAGGTACTTTT
58345	P	G	S	ATGACGTGGCAGACCCCCTCTGTGACCTCY
58345	P	T	S	CGCGCCGAGGACCCTCTGTGACCTCY
58345	T	G	S	GAACGAGGTCACAGAGGGGAAAGTACCTAGGAGACTCCCGCCTTCACTT
58345	T	T	S	GAACGAGGTCACAGAGGGTAAAGTACCTAGGAGACTCCCGCCTTCACTT
58345	IS	[gt]		TAGAGAATTGGGAAAGGTCACTTTAAGCTAAAGAAACAGTATGAACGAGGTCACAGAGGG[gt]AAAGTACCTAGGAGAC TCCCGCCTTCACTTTATGTAATGTGCTGTATGATTAACATATGC
58346	I		A	GCTGGACCAACTCCCAGTGGAGAGGGTAA
58346	P	C	A	ATGACGTGGCAGACCATAAGAGCCCCAGAGAY
58346	P	T	A	CGCGCCGAGGTATAAGAGCCCCAGAGAAAY
58346	T	C	A	CTCCTTTCTCTGGGGCTCTTATGTACCCTCTCCACTGGGAGTTGGTCCAGCCA
58346	T	T	A	CTCCTTTCTCTGGGGCTCTTATATACCCTCTCCACTGGGAGTTGGTCCAGCCA
58346	IS	[ct]		ACATAAACAAGAACCAGGAAAGAAGCCTCTTGGCTGGACCAACTCCCAGTGGAGAGGGTA[ct]ATAAGAGCCCCAGAG AAAGGAGAGATATTCACACCTCAGAAGCCTTATCCTTCTTTTCAA
58348	I		A	GTGCTAAATGAGAAAATGTGTGAACATAAATGAGCTAGTTTAACTAAAAGTTCACCAT
58348	P	A	A	CGCGCCGAGGAAATGTATTTTAAACATCAGGCTY
58348	P	C	A	ATGACGTGGCAGACCAATGTATTTTAAACATCAGGCTY
58348	T	A	A	TAAGAGCCTGATGTTTAAAATACATTTTGGTGAACTTTTAGTTAAACTAGCTCATTTATGTTCACACATTTTCTCATTTAG CACCA
58348	T	C	A	TAAGAGCCTGATGTTTAAAATACATTGTGGTGAACTTTTAGTTAAACTAGCTCATTTATGTTCACACATTTTCTCATTTA GCACCA
58348	IS	[ac]		ctggtgctaaatgagaaaatgtgtgaacataaatgagctagtttaactaaaagttcacca[ac]aatgtatttaaacatcaggctcttaaaaactcaatagttgaaatttgcatttaatca
58367	I		A	CTGGCCAGGAAAAGTGGGGAGGCCT
58367	P	A	A	CGCGCCGAGGATAAAGGAGAAAGACCATGCY
58367	P	G	A	ATGACGTGGCAGACGTAAAGGAGAAAGACCATGCY
58367	T	A	A	AAAGGCATGGTCTTTCTCCTTTATGGCCTCCCCACTTTTCCTGGCCAGAG
58367	T	G	A	AAAGGCATGGTCTTTCTCCTTTACGGCCTCCCCACTTTTCCTGGCCAGAG
58367	IS	[ag]		TTTCCACCCCTCCCTCCCCGGCCCTTGGGCCCAGCTCTGGCCAGGAAAAGTGGGGAGGCC[ag]TAAAGGAGAAAGAC CATGCCTTTCATTTTCTTCCTATGTCCTTATCGTCCATACATCCCA MGC3123
58368	I		S	GCAAGTATCAAATGAGACCATGACGGGAAACGTCATAGAGT
58368	P	C	S	ATGACGTGGCAGACGGTGAAGAAGTGCTGCY
58368	P	T	S	CGCGCCGAGGAGTGAAGAAGTGCTGCY
58368	T	C	S	CTCCGCAGCACTTCTTCACCCTCTATGACGTTTCCCGTCATGGTCTCATTTGATACTTGCAA
58368	T	T	S	CTCCGCAGCACTTCTTCACTCTCTATGACGTTTCCCGTCATGGTCTCATTTGATACTTGCAA
58368	IS	[ct]		TCAAGCTCTCTCTCCCCCATACACCCATCCTCACTGTTAGGCTCCGCAGCACTTCTTCAC[ct]CTCTATGACGTTTCCC GTCATGGTCTCATTTGATACTTGCAATGTCTTTATAAAGGTAAC
58369	I		A	AGGCAGGAGAGGGACACCCAAGGCT
58369	P	A	A	CGCGCCGAGGAAGGGTGACAGGCCY
58369	P	G	A	ATGACGTGGCAGACGAGGGTGACAGGCCY
58369	T	A	A	GAAAGGCCTGTCACCCTTGCCTTGGGTGTCCCTCTCCTGCCTCA
58369	T	G	A	GAAAGGCCTGTCACCCTCGCCTTGGGTGTCCCTCTCCTGCCTCA
58369	IS	[ag]		AGAAAACCAGGCCCAATATCCTCTAAAATTAAGCTGAGGCAGGAGAGGGACACCCAAGGC[ag]AGGGTGACAGGCCTT TCTTGTTGGCTGGAGAGCCAGTCTCCGGCCGGATTCTGGTGCCAA MGC3130
58370	I		S	GCCATGGGCATGTTTTCTCTTGCTTGTTTTGTTATATACACTCTA
58370	P	A	S	CGCGCCGAGGTTAAATATTGGTTAACTTTCCTCTCY
58370	P	G	S	ATGACGTGGCAGACCTAAATATTGGTTAACTTTCCTCTCY
58370	T	A	S	GAAGGAGAGGAAAGTTAACCAATATTTAAAGAGTGTATATAACAAAACAAGCAAGAGAAAACATGCCCATGGCTT
58370	T	G	S	GAAGGAGAGGAAAGTTAACCAATATTTAGAGAGTGTATATAACAAAACAAGCAAGAGAAAACATGCCCATGGCTT
58370	IS	[ag]		caactaacaatcctcatcaaaaaatcagagaaaagaaggagagagaaagttaaccaatattta[ag]agagtgtatataacaaaacaagcaagagaaaacatgcccatggcttctaca atcctgct

FIGURE 129D

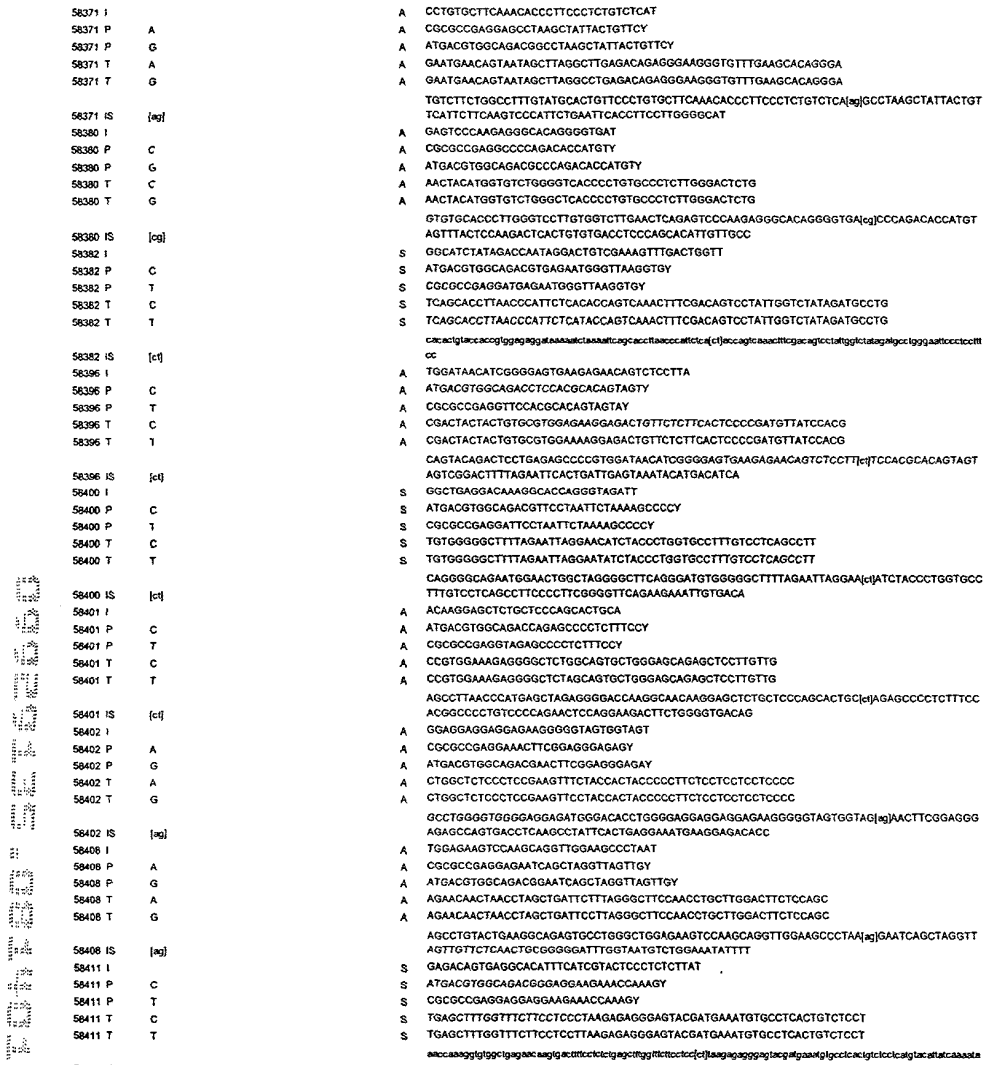

58371 I A CCTGTGCTTCAAACACCCTTCCCTCTGTCTCAT
58371 P A A CGCGCCGAGGAGCCTAAGCTATTACTGTTCY
58371 P G A ATGACGTGGCAGACGGCCTAAGCTATTACTGTTCY
58371 T A A GAATGAACAGTAATAGCTTAGGCTTGAGACAGAGGGAAGGGTGTTTGAAGCACAGGGA
58371 T G A GAATGAACAGTAATAGCTTAGGCCTGAGACAGAGGGAAGGGTGTTTGAAGCACAGGGA
58371 IS [ag] TGTCTTCTGGCCTTTGTATGCACTGTTCCCTGTGCTTCAAACACCCTTCCCTCTGTCTCA[ag]GCCTAAGCTATTACTGT TCATTCTTCAAGTCCCATTCTGAATTCACCTTCCTTGGGGCAT
58380 I A GAGTCCCAAGAGGGCACAGGGGTGAT
58380 P C A CGCGCCGAGGCCCCAGACACCATGTY
58380 P G A ATGACGTGGCAGACGCCCAGACACCATGTY
58380 T C A AACTACATGGTGTCTGGGGTCACCCCTGTGCCCTCTTGGGACTCTG
58380 T G A AACTACATGGTGTCTGGGCTCACCCCTGTGCCCTCTTGGGACTCTG
58380 IS [cg] GTGTGCACCCTTGGGTCCTTGTGGTCTTGAACTCAGAGTCCCAAGAGGGCACAGGGGTGA[cg]CCCAGACACCATGT AGTTTACTCCAAGACTCACTGTGTGACCTCCCAGCACATTGTTGCC
58382 I S GGCATCTATAGACCAATAGGACTGTCGAAAGTTTGACTGGTT
58382 P C S ATGACGTGGCAGACGTGAGAATGGGTTAAGGTGY
58382 P T S CGCGCCGAGGATGAGAATGGGTTAAGGTGY
58382 T C S TCAGCACCTTAACCCATTCTCACACCAGTCAAACTTTCGACAGTCCTATTGGTCTATAGATGCCTG
58382 T T S TCAGCACCTTAACCCATTCTCATACCAGTCAAACTTTCGACAGTCCTATTGGTCTATAGATGCCTG
58382 IS [ct] cacactgtaccacgtggagaggtaaaaatctaaaattcagcacctaacccatttcta[ct]tccagtcaaacttcgacagtcctattggtctatagatgcctgggaatccctccttt cc
58396 I A TGGATAACATCGGGGAGTGAAGAGAACAGTCTCCTTA
58396 P C A ATGACGTGGCAGACCTCCACGCACAGTAGTY
58396 P T A CGCGCCGAGGTTCCACGCACAGTAGTAY
58396 T C A CGACTACTACTGTGCGTGGAGAAGGAGACTGTTCTCTTCACTCCCCGATGTTATCCACG
58396 T T A CGACTACTACTGTGCGTGGAAAAGGAGACTGTTCTCTTCACTCCCCGATGTTATCCACG
58396 IS [ct] CAGTACAGACTCCTGAGAGCCCCGTGGATAACATCGGGGAGTGAAGAGAACAGTCTCCTT[ct]TCCACGCACAGTAGT AGTCGGACTTTTAGAATTCACTGATTGAGTAAATACATGACATCA
58400 I S GGCTGAGGACAAAGGCACCAGGGTAGATT
58400 P C S ATGACGTGGCAGACGTTCCTAATTCTAAAAGCCCCY
58400 P T S CGCGCCGAGGATTCCTAATTCTAAAAGCCCCY
58400 T C S TGTGGGGGCTTTTAGAATTAGGAACATCTACCCTGGTGCCTTTGTCCTCAGCCTT
58400 T T S TGTGGGGGCTTTTAGAATTAGGAATATCTACCCTGGTGCCTTTGTCCTCAGCCTT
58400 IS [ct] CAGGGGCAGAATGGAACTGGCTAGGGGCTTCAGGGATGTGGGGGCTTTTAGAATTAGGAA[ct]ATCTACCCTGGTGCC TTTGTCCTCAGCCTTCCCCTTCGGGGTTCAGAAGAAATTGTGACA
58401 I A ACAAGGAGCTCTGCTCCCAGCACTGCA
58401 P C A ATGACGTGGCAGACCAGAGCCCCTCTTTCCY
58401 P T A CGCGCCGAGGTAGAGCCCCTCTTTCCY
58401 T C A CCGTGGAAAGAGGGGCTCTGGCAGTGCTGGGAGCAGAGCTCCTTGTTG
58401 T T A CCGTGGAAAGAGGGGCTCTAGCAGTGCTGGGAGCAGAGCTCCTTGTTG
58401 IS [ct] AGCCTTAACCCATGAGCTAGAGGGGACCAAGGCAACAAGGAGCTCTGCTCCCAGCACTGC[ct]AGAGCCCCTCTTTCC ACGGCCCCTGTCCCCAGAACTCCAGGAAGACTTCTGGGGTGACAG
58402 I A GGAGGAGGAGGAGAAGGGGGTAGTGGTAGT
58402 P A A CGCGCCGAGGAAACTTCGGAGGGAGAGY
58402 P G A ATGACGTGGCAGACGAACTTCGGAGGGAGAY
58402 T A A CTGGCTCTCCCTCCGAAGTTTCTACCACTACCCCCTTCTCCTCCTCCTCCCC
58402 T G A CTGGCTCTCCCTCCGAAGTTCCTACCACTACCCCCTTCTCCTCCTCCTCCCC
58402 IS [ag] GCCTGGGGTGGGGAGGAGATGGGACACCTGGGGAGGAGGAGGAGAAGGGGGTAGTGGTAG[ag]AACTTCGGAGGG AGAGCCAGTGACCTCAAGCCTATTCACTGAGGAAATGAAGGAGACACC
58408 I A TGGAGAAGTCCAAGCAGGTTGGAAGCCCTAAT
58408 P A A CGCGCCGAGGAGAATCAGCTAGGTTAGTTGY
58408 P G A ATGACGTGGCAGACGGAATCAGCTAGGTTAGTTGY
58408 T A A AGAACAACTAACCTAGCTGATTCTTTAGGGCTTCCAACCTGCTTGGACTTCTCCAGC
58408 T G A AGAACAACTAACCTAGCTGATTCCTTAGGGCTTCCAACCTGCTTGGACTTCTCCAGC
58408 IS [ag] AGCCTGTACTGAAGGCAGAGTGCCTGGGCTGGAGAAGTCCAAGCAGGTTGGAAGCCCTAA[ag]GAATCAGCTAGGTT AGTTGTTCTCAACTGCGGGGGATTTGGTAATGTCTGGAAATATTTT
58411 I S GAGACAGTGAGGCACATTTCATCGTACTCCCTCTCTTAT
58411 P C S ATGACGTGGCAGACGGGAGGAAGAAACCAAAGY
58411 P T S CGCGCCGAGGAGGAGGAAGAAACCAAAGY
58411 T C S TGAGCTTTGGTTTCTTCCTCCCTAAGAGAGGGAGTACGATGAAATGTGCCTCACTGTCTCCT
58411 T T S TGAGCTTTGGTTTCTTCCTCCTTAAGAGAGGGAGTACGATGAAATGTGCCTCACTGTCTCCT
58411 IS [ct] aaccaaaggtgtggctgagaacaagtgacttttcctctctgagctttggttcttcctcc[ct]taagagagggagtacgatgaaatgtgcctcactgtctcctcatgtacattatcaaaata a
58414 I S CAGGCTTGTTTACTGCTCCGCACACAGTGAT
58414 P C S ATGACGTGGCAGACGGCGCCTATAGCAGAY
58414 P T S CGCGCCGAGGAGCGCCTATAGCAGACY
58414 T C S AAATGTCTGCTATAGGCGCCTCACTGTGTGCGGAGCAGTAAACAAGCCTGAC
58414 T T S AAATGTCTGCTATAGGCGCTTCACTGTGTGCGGAGCAGTAAACAAGCCTGAC
58414 IS [ct] ATCATCCCATTCAACTCAACTTTAGTCAATAAATATTTACCAAATGTCTGCTATAGGCGC[ct]TCACTGTGTGCGGAGCA GTAAACAAGCCTGACACAGTCTCTGCCCTGTGATGCTGTGGTT
58459 I S CTGCCCTTGGCTGTGCTGTTGGAGAAAAGT
58459 P C S ATGACGTGGCAGACGAGAGCATCCTGTTTAGGY
58459 P T S CGCGCCGAGGAAGAGCATCCTGTTTAGGY
58459 T C S CCTCCCTAAACAGGATGCTCTCTCTTTTCTCCAACAGCACAGCCAAGGGCAGCA
58459 T T S CCTCCCTAAACAGGATGCTCTTCTTTTCTCCAACAGCACAGCCAAGGGCAGCA
58459 IS [ct] AAAGGTGTCAAACAATGGTTCTGAAACTGAAGATCGGCACCTCCCTAAACAGGATGCTCT[ct]CTTTTCTCCAACAGCA CAGCCAAGGGCAGCAAAGCCTTCTATGTTTACAGAGCCAAAAGG
58464 I S CCATGCTAGTGGTACTTCTCCACATGAATGGGAGCT
58464 P C S ATGACGTGGCAGACGTGTCACATGCATGAAATCY
58464 P T S CGCGCCGAGGATGTCACATGCATGAAATCY
58464 T C S TATGGATTTCATGCATGTGACACGCTCCCATTCATGTGGAGAAGTACCACTAGCATGGTC
58464 T T S TATGGATTTCATGCATGTGACATGCTCCCATTCATGTGGAGAAGTACCACTAGCATGGTC
58464 IS [ct] CACACACACACGCGCACACACAGCCATGCCCCTGTGTTTATGGATTTCATGCATGTGACA[ct]GCTCCCATTCATGTGG AGAAGTACCACTAGCATGGTCACTAGATGTGCGCCAAGCGTATG
58472 I S CCGTCCAAACTGTAGCTCTTGAAATGTCCTGTCCCT
58472 P G S ATGACGTGGCAGACCCTTTGCCTTCCAAGCY
58472 P T S CGCGCCGAGGACTTTGCCTTCCAAGCY
58472 T G S AAAAGCTTGGAAGGCAAAGGGGGACAGGACATTTCAAGAGCTACAGTTTGGACGGAA
58472 T T S AAAAGCTTGGAAGGCAAAGTGGGACAGGACATTTCAAGAGCTACAGTTTGGACGGAA
58472 IS [gt] TCCAGCACCTAAAGAAGTAAAGGCACCAAACAAAGGAGGGGAAAAGCTTGGAAGGCAAAG[gt]GGGACAGGACATTTC AAGAGCTACAGTTTGGACGGAAGTTGCTCATGCTTCAGTGACCCT
58474 I S TGGTGCCCACTCCCAGGGAGAGACTAAT
58474 P C S ATGACGTGGCAGACGCAAGAGGTAGACAGATGY
58474 P T S CGCGCCGAGGACAAGAGGTAGACAGATGTY
58474 T C S AGTCACATCTGTCTACCTCTTGCTTAGTCTCTCCCTGGGAGTGGGCACCAGG
58474 T T S AGTCACATCTGTCTACCTCTTGTTTAGTCTCTCCCTGGGAGTGGGCACCAGG
58474 IS [ct] GATGCAAGTGGGGGCTCCGGGCCTGCCCTTCACCCTGGAGTCACATCTGTCTACCTCTTG[ct]TTAGTCTCTCCCTGG GAGTGGGCACCAGGGAGACCAGAGTAACAGCCATGAAAGCAACAA
58475 I A GAGGTGGTGACATGTGTCACTTCCAGGTGGT

FIGURE 129D

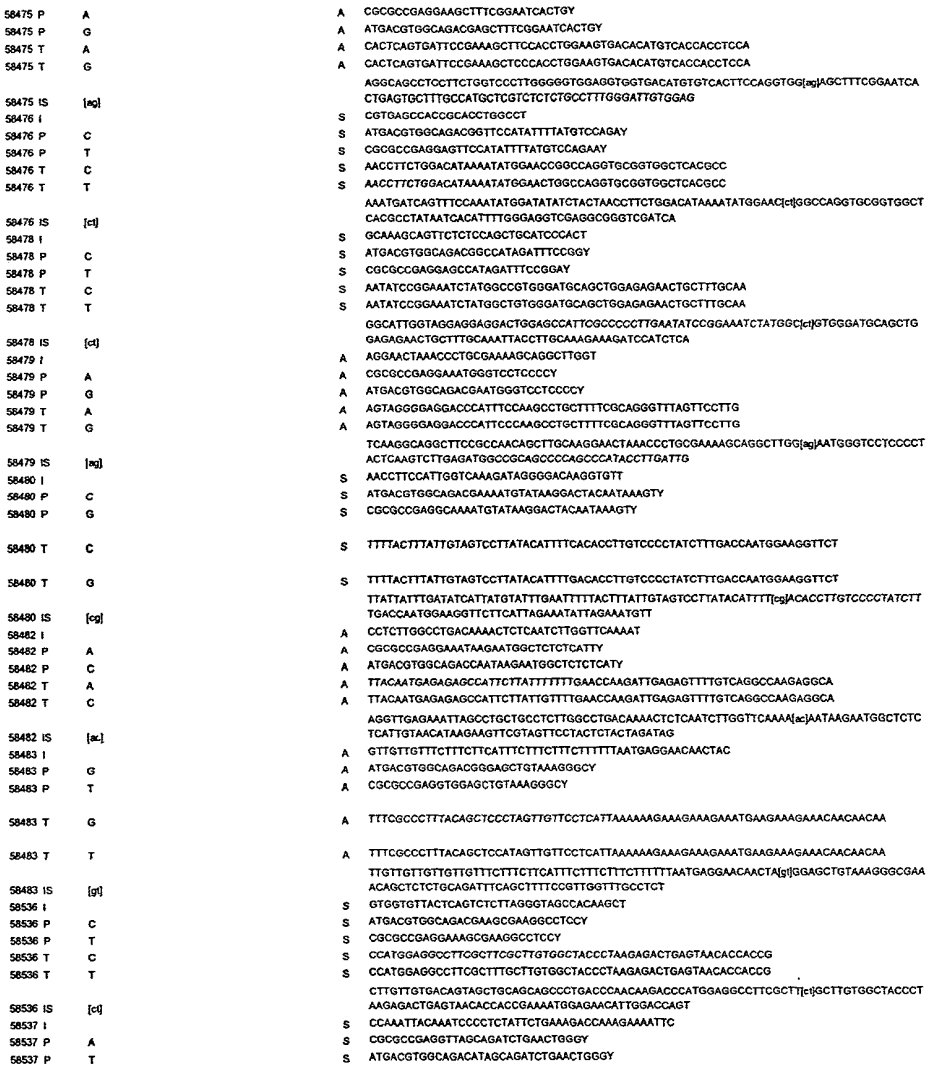

58475 P A A CGCGCCGAGGAAGCTTTCGGAATCACTGY
58475 P G A ATGACGTGGCAGACGAGCTTTCGGAATCACTGY
58475 T A A CACTCAGTGATTCCGAAAGCTTCCACCTGGAAGTGACACATGTCACCACCTCCA
58475 T G A CACTCAGTGATTCCGAAAGCTCCCACCTGGAAGTGACACATGTCACCACCTCCA
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58475 IS [ag] CTGAGTGCTTTGCCATGCTCGTCTCTCTGCCTTTGGGATTGTGGAG
58476 I S CGTGAGCCACCGCACCTGGCCT
58476 P C S ATGACGTGGCAGACGGTTCCATATTTTATGTCCAGAY
58476 P T S CGCGCCGAGGAGTTCCATATTTTATGTCCAGAAY
58476 T C S AACCTTCTGGACATAAAATATGGAACCGGCCAGGTGCGGTGGCTCACGCC
58476 T T S AACCTTCTGGACATAAAATATGGAACTGGCCAGGTGCGGTGGCTCACGCC
AAATGATCAGTTTCCAAATATGGATATATCTACTAACCTTCTGGACATAAAATATGGAAC[ct]GGCCAGGTGCGGTGGCT
58476 IS [ct] CACGCCTATAATCACATTTTGGGAGGTCGAGGCGGGTCGATCA
58478 I S GCAAAGCAGTTCTCTCCAGCTGCATCCCACT
58478 P C S ATGACGTGGCAGACGGCCATAGATTTCCGGY
58478 P T S CGCGCCGAGGAGCCATAGATTTCCGGAY
58478 T C S AATATCCGGAAATCTATGGCCGTGGGATGCAGCTGGAGAGAACTGCTTTGCAA
58478 T T S AATATCCGGAAATCTATGGCTGTGGGATGCAGCTGGAGAGAACTGCTTTGCAA
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58478 IS [ct] GAGAGAACTGCTTTGCAAATTACCTTGCAAAGAAAGATCCATCTCA
58479 I A AGGAACTAAACCCTGCGAAAAGCAGGCTTGGT
58479 P A A CGCGCCGAGGAAATGGGTCCTCCCCY
58479 P G A ATGACGTGGCAGACGAATGGGTCCTCCCCY
58479 T A A AGTAGGGGAGGACCCATTTCCAAGCCTGCTTTTCGCAGGGTTTAGTTCCTTG
58479 T G A AGTAGGGGAGGACCCATTCCCAAGCCTGCTTTTCGCAGGGTTTAGTTCCTTG
TCAAGGCAGGCTTCCGCCAACAGCTTGCAAGGAACTAAACCCTGCGAAAAGCAGGCTTGG[ag]AATGGGTCCTCCCCT
58479 IS [ag] ACTCAAGTCTTGAGATGGCCGCAGCCCCAGCCCATACCTTGATTG
58480 I S AACCTTCCATTGGTCAAAGATAGGGGACAAGGTGTT
58480 P C S ATGACGTGGCAGACGAAAATGTATAAGGACTACAATAAAGTY
58480 P G S CGCGCCGAGGCAAAATGTATAAGGACTACAATAAAGTY
58480 T C S TTTTACTTTATTGTAGTCCTTATACATTTTCACACCTTGTCCCCTATCTTTGACCAATGGAAGGTTCT
58480 T G S TTTTACTTTATTGTAGTCCTTATACATTTTGACACCTTGTCCCCTATCTTTGACCAATGGAAGGTTCT
TTATTATTTGATATCATTATGTATTTGAATTTTTACTTTATTGTAGTCCTTATACATTTT[cg]ACACCTTGTCCCCTATCTT
58480 IS [cg] TGACCAATGGAAGGTTCTTCATTAGAAATATTAGAAATGTT
58482 I A CCTCTTGGCCTGACAAAACTCTCAATCTTGGTTCAAAAT
58482 P A A CGCGCCGAGGAAATAAGAATGGCTCTCTCATTY
58482 P C A ATGACGTGGCAGACCAATAAGAATGGCTCTCTCATY
58482 T A A TTACAATGAGAGAGCCATTCTTATTTTTTTGAACCAAGATTGAGAGTTTTGTCAGGCCAAGAGGCA
58482 T C A TTACAATGAGAGAGCCATTCTTATTGTTTTGAACCAAGATTGAGAGTTTTGTCAGGCCAAGAGGCA
AGGTTGAGAAATTAGCCTGCTGCCTCTTGGCCTGACAAAACTCTCAATCTTGGTTCAAAA[ac]AATAAGAATGGCTCTC
58482 IS [ac] TCATTGTAACATAAGAAGTTCGTAGTTCCTACTCTACTAGATAG
58483 I A GTTGTTGTTTCTTTCTTCATTTCTTTCTTTCTTTTTTAATGAGGAACAACTAC
58483 P G A ATGACGTGGCAGACGGGAGCTGTAAAGGGCY
58483 P T A CGCGCCGAGGTGGAGCTGTAAAGGGCY
58483 T G A TTTCGCCCTTTACAGCTCCCTAGTTGTTCCTCATTAAAAAAGAAAGAAAGAAATGAAGAAAGAAACAACAACAA
58483 T T A TTTCGCCCTTTACAGCTCCATAGTTGTTCCTCATTAAAAAAGAAAGAAAGAAATGAAGAAAGAAACAACAACAA
TTGTTGTTGTTGTTTCTTTCTTCATTTCTTTCTTTCTTTTTTAATGAGGAACAACTA[gt]GAGCTGTAAAGGGCGAA
58483 IS [gt] ACAGCTCTCTGCAGATTTCAGCTTTTCCGTTGGTTTGCCTCT
58536 I S GTGGTGTTACTCAGTCTCTTAGGGTAGCCACAAGCT
58536 P C S ATGACGTGGCAGACGAAGCGAAGGCCTCCY
58536 P T S CGCGCCGAGGAAAGCGAAGGCCTCCY
58536 T C S CCATGGAGGCCTTCGCTTCGCTTGTGGCTACCCTAAGAGACTGAGTAACACCACCG
58536 T T S CCATGGAGGCCTTCGCTTTGCTTGTGGCTACCCTAAGAGACTGAGTAACACCACCG
CTTGTTGTGACAGTAGCTGCAGCAGCCCTGACCCAACAAGACCCATGGAGGCCTTCGCTT[ct]GCTTGTGGCTACCCT
58536 IS [ct] AAGAGACTGAGTAACACCACCGAAAATGGAGAACATTGGACCAGT
58537 I S CCAAATTACAAATCCCCTCTATTCTGAAAGACCAAAGAAAATTC
58537 P A S CGCGCCGAGGTTAGCAGATCTGAACTGGGY
58537 P T S ATGACGTGGCAGACATAGCAGATCTGAACTGGGY
58537 T A S AACTCCCAGTTCAGATCTGCTAAAATTTTCTTTGGTCTTTCAGAATAGAGGGGATTTGTAATTTGGGT
58537 T T S AACTCCCAGTTCAGATCTGCTATAATTTTCTTTGGTCTTTCAGAATAGAGGGGATTTGTAATTTGGGT
AAAAAAAAAATCACCCTAATTCCAAAGACAAAACTCAGAACTCCCAGTTCAGATCTGCTA[at]AATTTTCTTTGGTCTTTC
58537 IS [at] AGAATAGAGGGGATTTGTAATTTGGGTATAGACACTGGAAGT
58540 I A CAAAGCAAGATCACACAGAGAAAAAAAGTCTGAAGAATAATTATAACATTTTT
58540 P A A CGCGCCGAGGAAGCACATATTAAGCACCAY
58540 P G A ATGACGTGGCAGACGAGCACATATTAAGCACCAY
58540 T A A TGCCTGGTGCTTAATATGTGCTTAAAATGTTATAATTATTCTTCAGACTTTTTTTCTCTGTGTGATCTTGCTTTGTC
58540 T G A TGCCTGGTGCTTAATATGTGCTCAAAATGTTATAATTATTCTTCAGACTTTTTTTCTCTGTGTGATCTTGCTTTGTC
TCAGTAGACAAAGCAAGATCACACAGAGAAAAAAAGTCTGAAGAATAATTATAACATTTT[ag]AGCACATATTAAGCACC
58540 IS [ag] AGGCATTGTGATAAATGAGCTTTATACTTTTAAATGTGATATT
58548 I S ACTTGCCCCATAAATTGAAACCTAAGACTGGGACCAAT
58548 P C S ATGACGTGGCAGACGGCAGGATTTTGTATGTTTTCY
58548 P T S CGCGCCGAGGAGCAGGATTTTGTATGTTTTCY
58548 T C S AAAAGAAAACATACAAAATCCTGCCTTGGTCCCAGTCTTAGGTTTCAATTTATGGGGCAAGTCT
58548 T T S AAAAGAAAACATACAAAATCCTGCTTTGGTCCCAGTCTTAGGTTTCAATTTATGGGGCAAGTCT
ATAGAGTAAGATTCCAGTATCCCCCTACCCCCCAAAAAAGAAAACATACAAAATCCTGC[ct]TTGGTCCCAGTCTTAGG
58548 IS [ct] TTTCAATTTATGGGGCAAGTCTGATTAGTTTTGTTTTCTGAGC
58549 I A TCTCTGAACCTGAGTTTCCTCATCGATAAAAAGTGGT
58549 P A A CGCGCCGAGGATAATCCTACTTTGTAGAGTGTGY
58549 P G A ATGACGTGGCAGACGTAATCCTACTTTGTAGAGTGTY
58549 T A A TTCTCACACTCTACAAAGTAGGATTATCCACTTTTTATCGATGAGGAAACTCAGGTTCAGAGAGA
58549 T G A TTCTCACACTCTACAAAGTAGGATTACCCACTTTTTATCGATGAGGAAACTCAGGTTCAGAGAGA
tgcacataaacaagctgattaatctctctgaacctgagtttcctcatcgataaaaagtgg[ag]taatcctacttgtagagtgtgagagtctcagagatcccatgcatggcacatagaag
58549 IS [ag] gta
58551 I A CTGACCCAAAGTGGACCCTTTCCTGCCAT
58551 P A A CGCGCCGAGGAGTACTGCCCCCTTCY
58551 P G A ATGACGTGGCAGACGGTACTGCCCCCTTCY
58551 T A A GAGCGAAGGGGGCAGTACTTGGCAGGAAAGGGTCCACTTTGGGTCAGGA
58551 T G A GAGCGAAGGGGGCAGTACCTGGCAGGAAAGGGTCCACTTTGGGTCAGGA
cctcctcagatctcagcccaaatgtcacctcctgacccaaagtggacccttcctgcca[ag]gtactgcccctcgctctgtgaatttaccacaatctttaaggacccaacacacg
58551 IS [ag] ccagg
58555 I A GGGAGCACCCAGTATAACAAGGGAGGCAT

FIGURE 129D

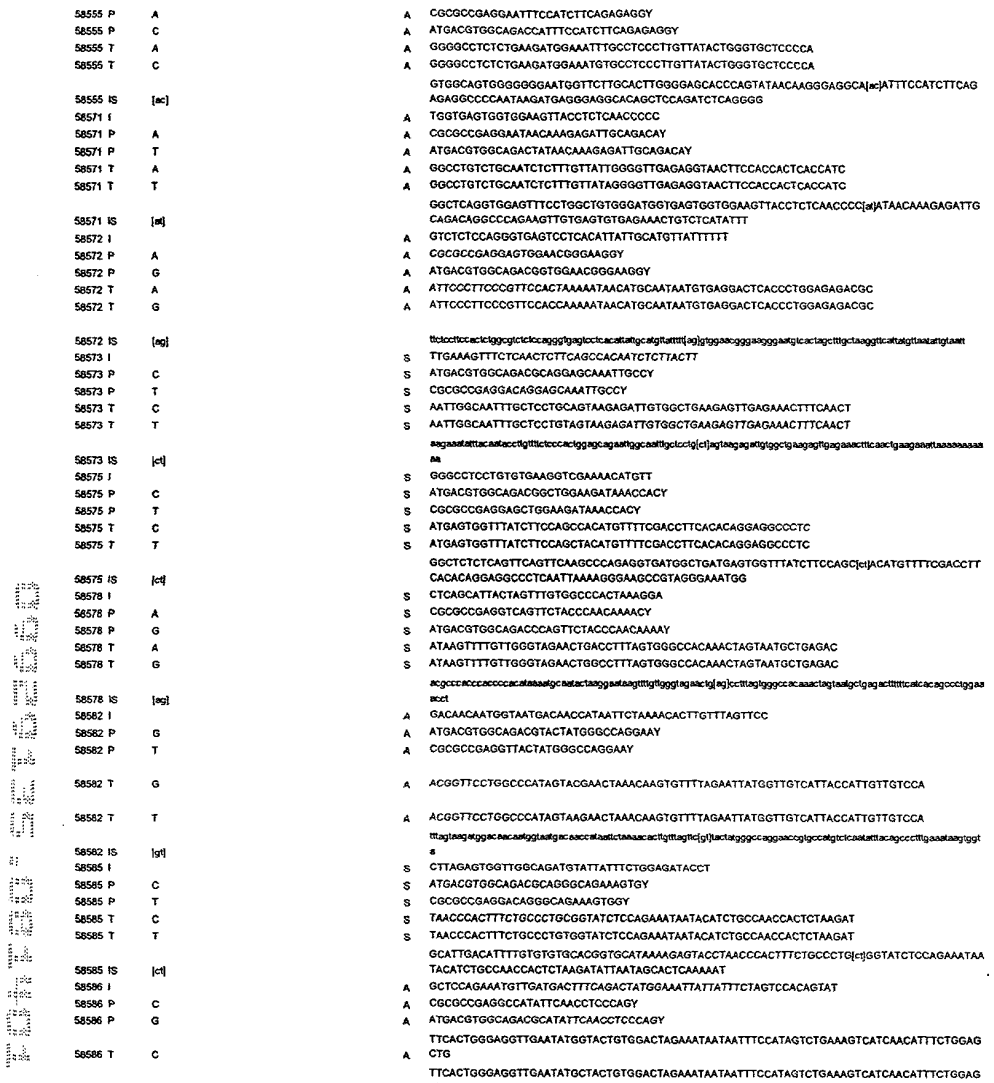

58555 P A A CGCGCCGAGGAATTTCCATCTTCAGAGAGGY
58555 P C A ATGACGTGGCAGACCATTTCCATCTTCAGAGAGGY
58555 T A A GGGGCCTCTCTGAAGATGGAAATTTGCCTCCCTTGTTATACTGGGTGCTCCCCA
58555 T C A GGGGCCTCTCTGAAGATGGAAATGTGCCTCCCTTGTTATACTGGGTGCTCCCCA
58555 IS [ac] GTGGCAGTGGGGGGGAATGGTTCTTGCACTTGGGGAGCACCCAGTATAACAAGGGAGGCA[ac]ATTTCCATCTTCAG AGAGGCCCCAATAAGATGAGGGAGGCACAGCTCCAGATCTCAGGGG
58571 I A TGGTGAGTGGTGGAAGTTACCTCTCAACCCCC
58571 P A A CGCGCCGAGGAATAACAAAGAGATTGCAGACAY
58571 P T A ATGACGTGGCAGACTATAACAAAGAGATTGCAGACAY
58571 T A A GGCCTGTCTGCAATCTCTTTGTTATTGGGGTTGAGAGGTAACTTCCACCACTCACCATC
58571 T T A GGCCTGTCTGCAATCTCTTTGTTATAGGGGTTGAGAGGTAACTTCCACCACTCACCATC
58571 IS [at] GGCTCAGGTGGAGTTTCCTGGCTGTGGGATGGTGAGTGGTGGAAGTTACCTCTCAACCCC[at]ATAACAAAGAGATTG CAGACAGGCCCAGAAGTTGTGAGTGTGAGAAACTGTCTCATATTT
58572 I A GTCTCTCCAGGGTGAGTCCTCACATTATTGCATGTTATTTTTT
58572 P A A CGCGCCGAGGAGTGGAACGGGAAGGY
58572 P G A ATGACGTGGCAGACGGTGGAACGGGAAGGY
58572 T A A ATTCCCTTCCCGTTCCACTAAAAATAACATGCAATAATGTGAGGACTCACCCTGGAGAGACGC
58572 T G A ATTCCCTTCCCGTTCCACCAAAAATAACATGCAATAATGTGAGGACTCACCCTGGAGAGACGC
58572 IS [ag] ttctccttccactctggcgctctctccaggctgagtcctcacattattgcatgttatttttt[ag]gtggaacgggaagggaatgtcactagcttgctaaggttcattatgttaatattgtaatt
58573 I S TTGAAAGTTTCTCAACTCTTCAGCCACAATCTCTTACTT
58573 P C S ATGACGTGGCAGACGCAGGAGCAAATTGCCY
58573 P T S CGCGCCGAGGACAGGAGCAAATTGCCY
58573 T C S AATTGGCAATTTGCTCCTGCAGTAAGAGATTGTGGCTGAAGAGTTGAGAAACTTTCAACT
58573 T T S AATTGGCAATTTGCTCCTGTAGTAAGAGATTGTGGCTGAAGAGTTGAGAAACTTTCAACT
58573 IS [ct] aagaaatatttacaatacctgttttctcccactggagcagaatgtggcaatttgcctccig[ct]agtaagagaatgtggctgaagagttgagaaacttcaactgaagaaattaaaaaaaaa aa
58575 I S GGGCCTCCTGTGTGAAGGTCGAAAACATGTT
58575 P C S ATGACGTGGCAGACGGCTGGAAGATAAACCACY
58575 P T S CGCGCCGAGGAGCTGGAAGATAAACCACY
58575 T C S ATGAGTGGTTTATCTTCCAGCCACATGTTTTCGACCTTCACACAGGAGGCCCTC
58575 T T S ATGAGTGGTTTATCTTCCAGCTACATGTTTTCGACCTTCACACAGGAGGCCCTC
58575 IS [ct] GGCTCTCTCAGTTCAGTTCAAGCCCAGAGGTGATGGCTGATGAGTGGTTTATCTTCCAGC[ct]ACATGTTTTCGACCTT CACACAGGAGGCCCTCAATTAAAAGGGAAGCCGTAGGGAAATGG
58578 I S CTCAGCATTACTAGTTTGTGGCCCACTAAAGGA
58578 P A S CGCGCCGAGGTCAGTTCTACCCAACAAAACY
58578 P G S ATGACGTGGCAGACCCAGTTCTACCCAACAAAAY
58578 T A S ATAAGTTTTGTTGGGTAGAACTGACCTTTAGTGGGCCACAAACTAGTAATGCTGAGAC
58578 T G S ATAAGTTTTGTTGGGTAGAACTGGCCTTTAGTGGGCCACAAACTAGTAATGCTGAGAC
58578 IS [ag] acgcccacccacccacataaaagcaatactaaggaataagtttgtgggtagaactg[ag]ccttagtgggccacaaactagtaatgctgagacttttttcatcacagcccctggaa acct
58582 I A GACAACAATGGTAATGACAACCATAATTCTAAAACACTTGTTTAGTTCC
58582 P G A ATGACGTGGCAGACGTACTATGGGCCAGGAAY
58582 P T A CGCGCCGAGGTTACTATGGGCCAGGAAY
58582 T G A ACGGTTCCTGGCCCATAGTACGAACTAAACAAGTGTTTTAGAATTATGGTTGTCATTACCATTGTTGTCCA
58582 T T A ACGGTTCCTGGCCCATAGTAAGAACTAAACAAGTGTTTTAGAATTATGGTTGTCATTACCATTGTTGTCCA
58582 IS [gt] tttagtaagatggacaacaatggtaatgacaacctaattctaaaacactgtttagttc[gt]tactatgggccaggaaccgtgccatgtctcaatatttacagcccttgaaataagtggt a
58585 I S CTTAGAGTGGTTGGCAGATGTATTATTTCTGGAGATACCT
58585 P C S ATGACGTGGCAGACGCAGGGCAGAAAGTGY
58585 P T S CGCGCCGAGGACAGGGCAGAAAGTGGY
58585 T C S TAACCCACTTTCTGCCCTGCGGTATCTCCAGAAATAATACATCTGCCAACCACTCTAAGAT
58585 T T S TAACCCACTTTCTGCCCTGTGGTATCTCCAGAAATAATACATCTGCCAACCACTCTAAGAT
58585 IS [ct] GCATTGACATTTTGTGTGTGCACGGTGCATAAAAGAGTACCTAACCCACTTTCTGCCCTG[ct]GGTATCTCCAGAAATAA TACATCTGCCAACCACTCTAAGATATTAATAGCACTCAAAAAT
58586 I A GCTCCAGAAATGTTGATGACTTTCAGACTATGGAAATTATTATTTCTAGTCCACAGTAT
58586 P C A CGCGCCGAGGCCATATTCAACCTCCCAGY
58586 P G A ATGACGTGGCAGACGCATATTCAACCTCCCAGY
58586 T C A TTCACTGGGAGGTTGAATATGGTACTGTGGACTAGAAATAATAATTTCCATAGTCTGAAAGTCATCAACATTTCTGGAG CTG
58586 T G A TTCACTGGGAGGTTGAATATGCTACTGTGGACTAGAAATAATAATTTCCATAGTCTGAAAGTCATCAACATTTCTGGAG CTG
58586 IS [cg] CAGCTCCAGAAATGTTGATGACTTTCAGACTATGGAAATTATTATTTCTAGTCCACAGTA[cg]CATATTCAACCTCCCAG TGAACATCTCCACTTAATTTTAAAGGAGTATTGAACTTAAAAT
58587 I S TCACATTATCTATAGTAGCAAAACTTCCAGTTTTTGATGGGACC
58587 P A S CGCGCCGAGGTTGGCTGCCTAGAATAAAGY
58587 P T S ATGACGTGGCAGACATGGCTGCCTAGAATAAAGY
58587 T A S ATATCTTTATTCTAGGCAGCCAAGTCCCATCAAAAACTGGAAGTTTTGCTACTATAGATAATGTGAAA
58587 T T S ATATCTTTATTCTAGGCAGCCATGTCCCATCAAAAACTGGAAGTTTTGCTACTATAGATAATGTGAAA
58587 IS [at] TGTCTGCACACATGGGAGCTGCAAGGGGGGGGTAAGAAATATCTTTATTCTAGGCAGCCA[at]GTCCCATCAAAAACTG GAAGTTTTGCTACTATAGATAATGTGAAATGCATACACCAGAGC
60799 I S ACAATTTCCTCAAAAAGCTGAGAGTTTTTACTGTCAGTTGAAATTTTACAC
60799 P A S CGCGCCGAGGTCCGTTGAAACCATCTTTGAA
60799 P T S CGCGCCGAGGACCGTTGAAACCATCTTTGAA
60799 T A S ATTCTTCAAAGATGGTTTCAACGGATGTAAAATTTCAACTGACAGTAAAAACTCTCAGCTTTTTGAGGAAATTGT
60799 T T S ATTCTTCAAAGATGGTTTCAACGGTTGTAAAATTTCAACTGACAGTAAAAACTCTCAGCTTTTTGAGGAAATTGT
60799 IS [AT] ttcctagagtatcttattdacctcatctttcaaagatggtttcaacgg[AT]tgtaaaatttcaactgacagtaaaaacictcagctttttgaggaaattgt
60810 I S GATATAAATATTGGTCTGCATCTCTCTGACAACTTTGTGATATGAAATTAT
60810 P G S CGCGCCGAGGCTAGAGAAAAGGGCATAAATATTTTAGGY
60810 P T S CGCGCCGAGGATAGAGAAAAGGGCATAAATATTTTAGGAY
60810 T G S ACAGTCCTAAAATATTTATGCCCTTTTCTCTAGTAATTTCATATCACAAAGTTGTCAGAGAGATGCAGACCAATATTTAT ATC
60810 T T S ACAGTCCTAAAATATTTATGCCCTTTTCTCTATTAATTTCATATCACAAAGTTGTCAGAGAGATGCAGACCAATATTTAT ATC
60810 IS [gt] attgtcaatatatatcaacagtcctaaaatatttatgccctttctctat[gt]taatttcatatcacaaagttgtcagagagatgcagaccaatatttatatc
60836 I S AGGTTCGGGCAATTGTGATATATAATACATGCAAGTTAGTCCAAAATCAAT
60836 P C S CGCGCCGAGGGTAAAATATACAATAAACTGACATACAAGACA
60836 P T S CGCGCCGAGGATAAAATATACAATAAACTGACATACAAGACAG
60836 T C S GAATCTGTCTTGTATGTCAGTTTATTGTATATTTTACTTGATTTTGGACTAACTTGCATGTATTATATATCACAATTGCC CGAACCT

FIGURE 129D

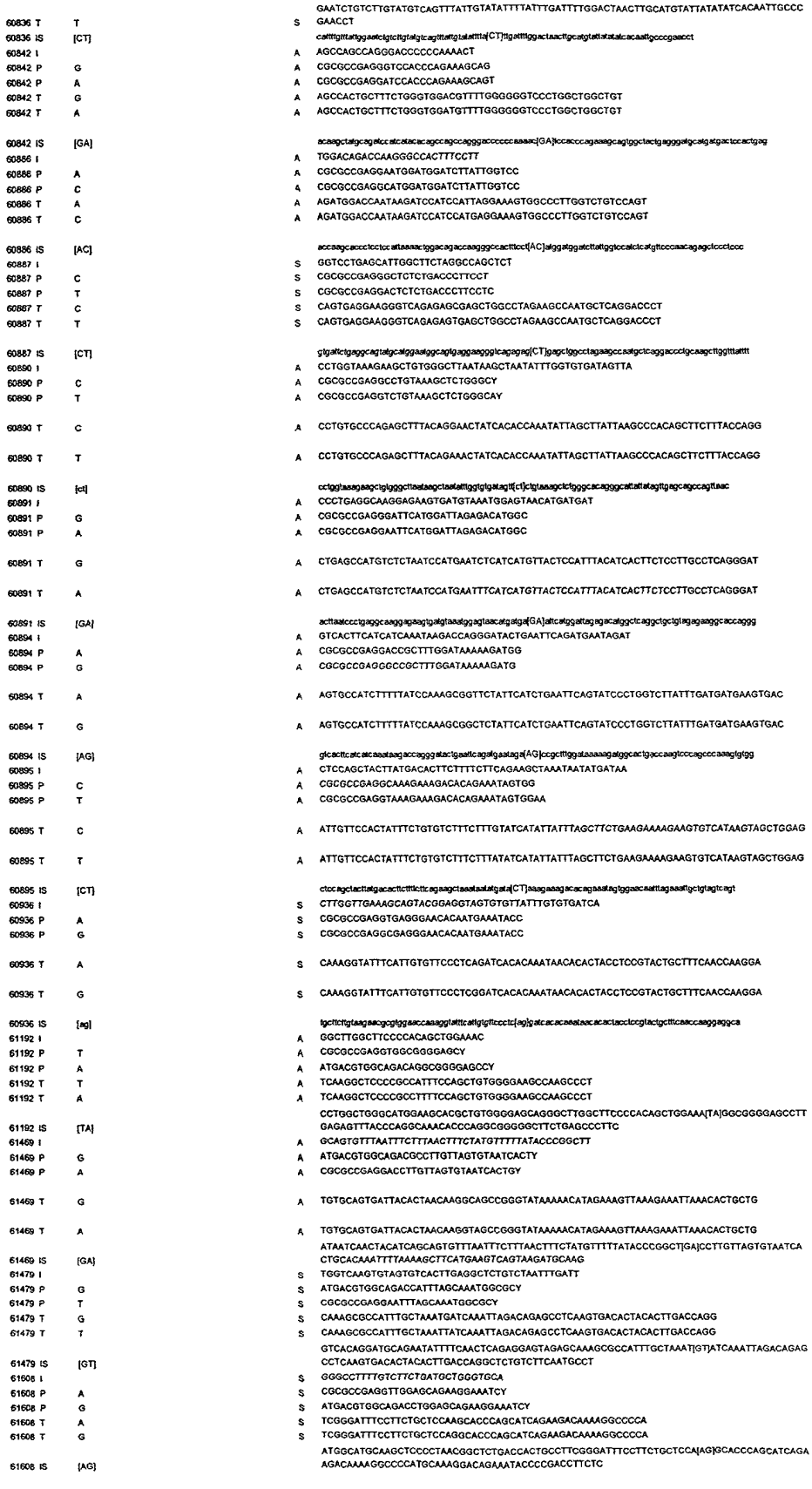
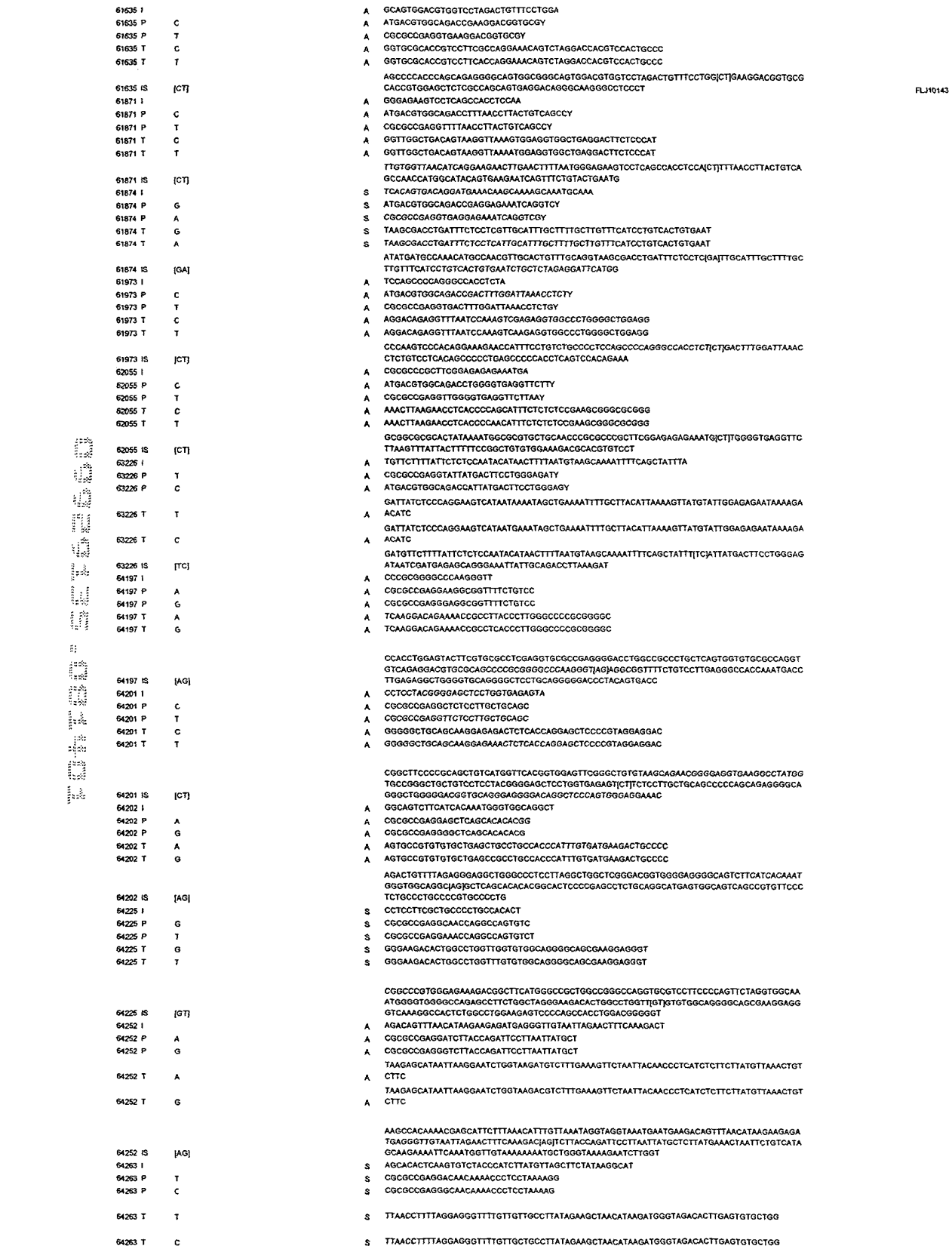
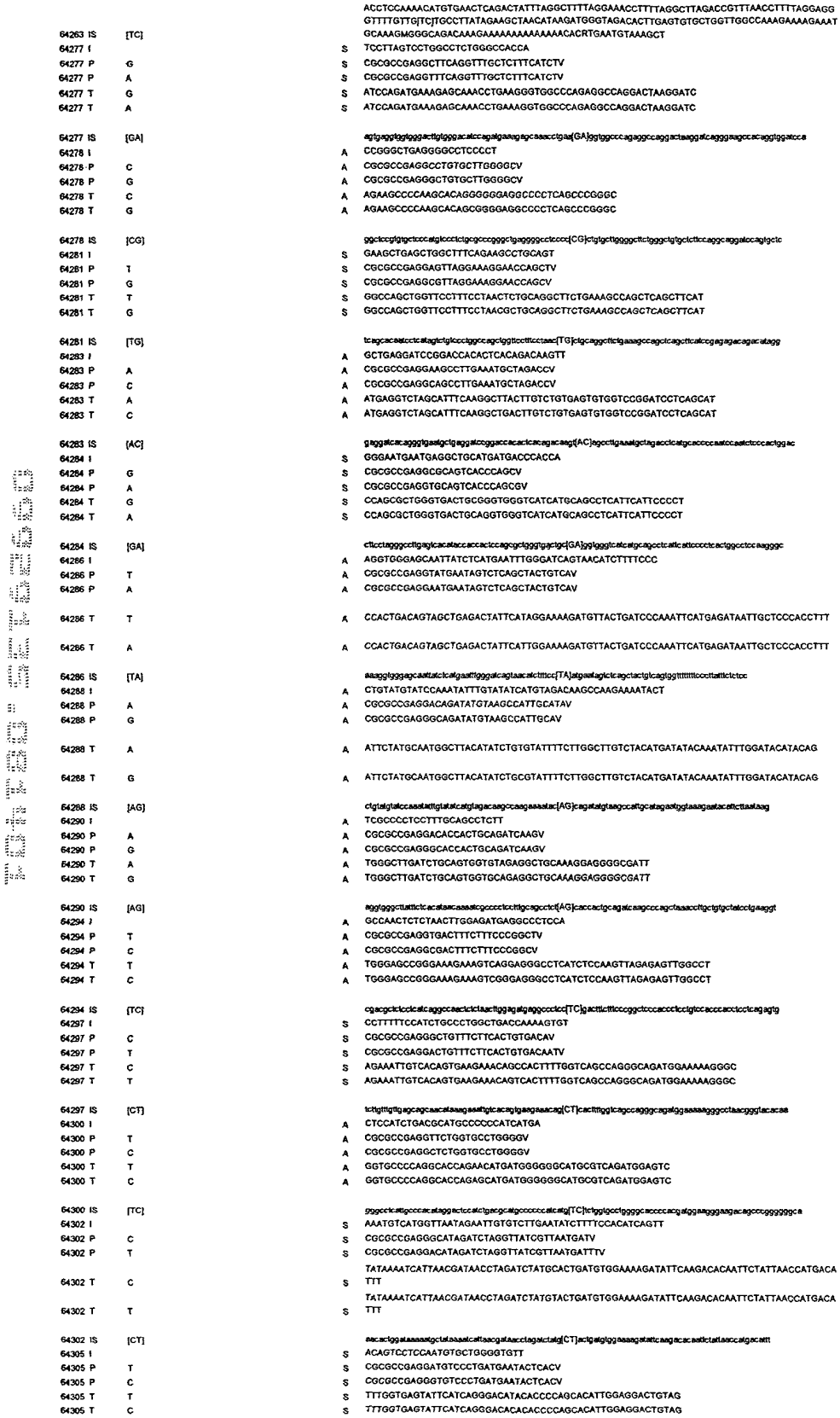


FIGURE 129D


61635 I A GCAGTGGACGTGGTCCTAGACTGTTTCCTGGA
61635 P C A ATGACGTGGCAGACCGAAGGACGGTGCGY
61635 P T A CGCGCCGAGGTGAAGGACGGTGCGY
61635 T C A GGTGCGCACCGTCCTTCGCCAGGAAACAGTCTAGGACCACGTCCACTGCCC
61635 T T A GGTGCGCACCGTCCTTCACCAGGAAACAGTCTAGGACCACGTCCACTGCCC
61635 IS [CT] AGCCCCACCCAGCAGAGGGGCAGTGGCGGGCAGTGGACGTGGTCCTAGACTGTTTCCTGG[CT]GAAGGACGGTGCG CACCGTGGAGCTCTCGCCAGCAGTGAGGACAGGGCAAGGGCCTCCCT FLJ10143
61871 I A GGGAGAAGTCCTCAGCCACCTCCAA
61871 P C A ATGACGTGGCAGACCTTTAACCTTACTGTCAGCCY
61871 P T A CGCGCCGAGGTTTTAACCTTACTGTCAGCCY
61871 T C A GGTTGGCTGACAGTAAGGTTAAAGTGGAGGTGGCTGAGGACTTCTCCCAT
61871 T T A GGTTGGCTGACAGTAAGGTTAAAATGGAGGTGGCTGAGGACTTCTCCCAT
61871 IS [CT] TTGTGGTTAACATCAGGAAGAACTTGAACTTTTAATGGGAGAAGTCCTCAGCCACCTCCA[CT]TTTAACCTTACTGTCA GCCAACCATGGCATACAGTGAAGAATCAGTTTCTGTACTGAATG
61874 I S TCACAGTGACAGGATGAAACAAGCAAAAGCAAATGCAAA
61874 P G S ATGACGTGGCAGACCGAGGAGAAATCAGGTCY
61874 P A S CGCGCCGAGGTGAGGAGAAATCAGGTCGY
61874 T G S TAAGCGACCTGATTTCTCCTCGTTGCATTTGCTTTTGCTTGTTTCATCCTGTCACTGTGAAT
61874 T A S TAAGCGACCTGATTTCTCCTCATTGCATTTGCTTTTGCTTGTTTCATCCTGTCACTGTGAAT
61874 IS [GA] ATATGATGCCAAACATGCCAACGTTGCACTGTTTGCAGGTAAGCGACCTGATTTCTCCTC[GA]TTGCATTTGCTTTTGC TTGTTTCATCCTGTCACTGTGAATCTGCTCTAGAGGATTCATGG
61973 I A TCCAGCCCCAGGGCCACCTCTA
61973 P C A ATGACGTGGCAGACCGACTTTGGATTAAACCTCTY
61973 P T A CGCGCCGAGGTGACTTTGGATTAAACCTCTGY
61973 T C A AGGACAGAGGTTTAATCCAAAGTCGAGAGGTGGCCCTGGGGCTGGAGG
61973 T T A AGGACAGAGGTTTAATCCAAAGTCAAGAGGTGGCCCTGGGGCTGGAGG
61973 IS [CT] CCCAAGTCCCACAGGAAAGAACCATTTCCTGTCTGCCCCTCCAGCCCCAGGGCCACCTCT[CT]GACTTTGGATTAAAC CTCTGTCCTCACAGCCCCCTGAGCCCCCACCTCAGTCCACAGAAA
62055 I A CGCGCCCGCTTCGGAGAGAGAAATGA
62055 P C A ATGACGTGGCAGACCTGGGGTGAGGTTCTTY
62055 P T A CGCGCCGAGGTTGGGGTGAGGTTCTTAAY
62055 T C A AAACTTAAGAACCTCACCCCAGCATTTCTCTCTCCGAAGCGGGCGCGGG
62055 T T A AAACTTAAGAACCTCACCCCAACATTTCTCTCTCCGAAGCGGGCGCGGG
62055 IS [CT] GCGGCGCGCACTATAAAATGGCGCGTGCTGCAACCCGCGCCCGCTTCGGAGAGAGAAATG[CT]TGGGGTGAGGTTC TTAAGTTTATTACTTTTTCCGGCTGTGTGGAAAGACGCACGTGTCCT
63226 I A TGTTCTTTTATTCTCTCCAATACATAACTTTTAATGTAAGCAAAATTTTCAGCTATTTA
63226 P T A CGCGCCGAGGTATTATGACTTCCTGGGAGATY
63226 P C A ATGACGTGGCAGACCATTATGACTTCCTGGGAGY
63226 T T A GATTATCTCCCAGGAAGTCATAATAAAATAGCTGAAAATTTTGCTTACATTAAAAGTTATGTATTGGAGAGAATAAAAGA ACATC
63226 T C A GATTATCTCCCAGGAAGTCATAATGAAATAGCTGAAAATTTTGCTTACATTAAAAGTTATGTATTGGAGAGAATAAAAGA ACATC
63226 IS [TC] GATGTTCTTTTATTCTCTCCAATACATAACTTTTAATGTAAGCAAAATTTTCAGCTATTT[TC]ATTATGACTTCCTGGGAG ATAATCGATGAGAGCAGGGAAATTATTGCAGACCTTAAAGAT
64197 I A CCCGCGGGGCCCAAGGGTT
64197 P A A CGCGCCGAGGAAGGCGGTTTTCTGTCC
64197 P G A CGCGCCGAGGGAGGCGGTTTTCTGTCC
64197 T A A TCAAGGACAGAAAACCGCCTTACCCTTGGGCCCCGCGGGGC
64197 T G A TCAAGGACAGAAAACCGCCTCACCCTTGGGCCCCGCGGGGC
64197 IS [AG] CCACCTGGAGTACTTCGTGCGCCTCGAGGTGCGCCGAGGGGACCTGGCCGCCCTGCTCAGTGGTGTGCGCCAGGT GTCAGAGGACGTGCGCAGCCCCGCGGGGCCCAAGGGT[AG]AGGCGGTTTTCTGTCCTTGAGGGCCACCAAATGACC TTGAGAGGCTGGGGTGCAGGGGCTCCTGCAGGGGGACCCTACAGTGACC
64201 I A CCTCCTACGGGGAGCTCCTGGTGAGAGTA
64201 P C A CGCGCCGAGGCTCTCCTTGCTGCAGC
64201 P T A CGCGCCGAGGTTCTCCTTGCTGCAGC
64201 T C A GGGGGCTGCAGCAAGGAGAAGACTCTCACCAGGAGCTCCCCGTAGGAGGAC
64201 T T A GGGGGCTGCAGCAAGGAGAAACTCTCACCAGGAGCTCCCCGTAGGAGGAC
64201 IS [CT] CGGCTTCCCCGCAGCTGTCATGGTTCACGGTGGAGTTCGGGCTGTGTAAGCAGAACGGGGAGGTGAAGGCCTATGG TGCCGGGCTGCTGTCCTCCTACGGGGAGCTCCTGGTGAGAGT[CT]TCTCCTTGCTGCAGCCCCCAGCAGAGGGGCA GGGCTGGGGGACGGTGCAGGGAGGGGACAGGCTCCCAGTGGGAGGAAAC
64202 I A GGCAGTCTTCATCACAAATGGGTGGCAGGCT
64202 P A A CGCGCCGAGGAGCTCAGCACACACGG
64202 P G A CGCGCCGAGGGGCTCAGCACACACG
64202 T A A AGTGCCGTGTGTGCTGAGCTGCCTGCCACCCATTTGTGATGAAGACTGCCCC
64202 T G A AGTGCCGTGTGTGCTGAGCCGCCTGCCACCCATTTGTGATGAAGACTGCCCC
64202 IS [AG] AGACTGTTTTAGAGGGAGGCTGGGCCCTCCTTAGGCTGGCTCGGGACGGTGGGGAGGGGCAGTCTTCATCACAAAT GGGTGGCAGGC[AG]GCTCAGCACACACGGCACTCCCCGAGCCTCTGCAGGCATGAGTGGCAGTCAGCCGTGTTCCC TCTGCCCTGCCCCGTGCCCCTG
64225 I S CCTCCTTCGCTGCCCCTGCCACACT
64225 P G S CGCGCCGAGGCAACCAGGCCAGTGTC
64225 P T S CGCGCCGAGGAAACCAGGCCAGTGTCT
64225 T G S GGGAAGACACTGGCCTGGTTGGTGTGGCAGGGGCAGCGAAGGAGGGT
64225 T T S GGGAAGACACTGGCCTGGTTTGTGTGGCAGGGGCAGCGAAGGAGGGT
64225 IS [GT] CGGCCCGTGGGAGAAAGACGGCTTCATGGGCCGCTGGCCGGGCCAGGTGCGTCCTTCCCCAGTTCTAGGTGGCAA ATGGGGTGGGGCCAGAGCCTTCTGGCTAGGGAAGACACTGGCCTGGTT[GT]GTGTGGCAGGGGCAGCGAAGGAGG GTCAAAGGCCACTCTGGCCTGGAAGAGTCCCCAGCCACCTGGACGGGGGT
64252 I A AGACAGTTTAACATAAGAAGAGATGAGGGTTGTAATTAGAACTTTCAAAGACT
64252 P A A CGCGCCGAGGATCTTACCAGATTCCTTAATTATGCT
64252 P G A CGCGCCGAGGGTCTTACCAGATTCCTTAATTATGCT
64252 T A A TAAGAGCATAATTAAGGAATCTGGTAAGATGTCTTTGAAAGTTCTAATTACAACCCTCATCTCTTCTTATGTTAAACTGT CTTC
64252 T G A TAAGAGCATAATTAAGGAATCTGGTAAGACGTCTTTGAAAGTTCTAATTACAACCCTCATCTCTTCTTATGTTAAACTGT CTTC
64252 IS [AG] AAGCCACAAAACGAGCATTCTTTAAACATTTGTTAAATAGGTAGGTAAATGAATGAAGACAGTTTAACATAAGAAGAGA TGAGGGTTGTAATTAGAACTTTCAAAGAC[AG]TCTTACCAGATTCCTTAATTATGCTCTTATGAAACTAATTCTGTCATA GCAAGAAAATTCAAATGGTTGTAAAAAAAATGCTGGGTAAAAGAATCTTGGT
64263 I S AGCACACTCAAGTGTCTACCCATCTTATGTTAGCTTCTATAAGGCAT
64263 P T S CGCGCCGAGGACAACAAAACCCTCCTAAAAGG
64263 P C S CGCGCCGAGGGCAACAAAACCCTCCTAAAAG
64263 T T S TTAACCTTTTAGGAGGGTTTTGTTGTTGCCTTATAGAAGCTAACATAAGATGGGTAGACACTTGAGTGTGCTGG
64263 T C S TTAACCTTTTAGGAGGGTTTTGTTGCTGCCTTATAGAAGCTAACATAAGATGGGTAGACACTTGAGTGTGCTGG


ACCTCCAAAACATGTGAACTCAGACTATTTAGGCTTTTAGGAAACCTTTTAGGCTTAGACCGTTTAACCTTTTAGGAGG
GTTTTGTTGTCTGCCTTATAGAAGCTAACATAAGATGGGTAGACACTTGAGTGTGCTGGTTGGCCAAAGAAAAGAAAT
64263 IS [TC] GCAAAGMGGGCAGACAAAGAAAAAAAAAAAAAACACRTGAATGTAAAGCT
64277 I S TCCTTAGTCCTGGCCTCTGGGCCACCA
64277 P G S CGCGCCGAGGCTTCAGGTTTGCTCTTTCATCTV
64277 P A S CGCGCCGAGGTTTCAGGTTTGCTCTTTCATCTV
64277 T G S ATCCAGATGAAAGAGCAAACCTGAAGGGTGGCCCAGAGGCCAGGACTAAGGATC
64277 T A S ATCCAGATGAAAGAGCAAACCTGAAAGGTGGCCCAGAGGCCAGGACTAAGGATC
64277 IS [GA] agtgaggtggtgggacttgtgggacatccagatgaaagagcaaacctgaa[GA]ggtggcccagagggccaggactaaggatcagggaagccacaggtggatcca
64278 I A CCGGGCTGAGGGGCCTCCCCT
64278 P C A CGCGCCGAGGCCTGTGCTTGGGGCV
64278 P G A CGCGCCGAGGGCTGTGCTTGGGGCV
64278 T C A AGAAGCCCCAAGCACAGGGGGGAGGCCCCTCAGCCCGGGC
64278 T G A AGAAGCCCCAAGCACAGCGGGGAGGCCCCTCAGCCCGGGC
64278 IS [CG] ggcacctgtgtgctcccatgtcccctctgcgcccgggctgagggggcctcccc[CG]ctgtgcttggggcttctgggctgtgctcttccaggcaggatccagtgctc
64281 I S GAAGCTGAGCTGGCTTTCAGAAGCCTGCAGT
64281 P T S CGCGCCGAGGAGTTAGGAAAGGAACCAGCTV
64281 P G S CGCGCCGAGGCGTTAGGAAAGGAACCAGCV
64281 T T S GGCCAGCTGGTTCCTTTCCTAACTCTGCAGGCTTCTGAAAGCCAGCTCAGCTTCAT
64281 T G S GGCCAGCTGGTTCCTTTCCTAACGCTGCAGGCTTCTGAAAGCCAGCTCAGCTTCAT
64281 IS [TG] tcagcacaatcctcatagtctgtcccctggccagctggttccttttcctaac[TG]ctgcaggcttctgaaagccagctcagcttcatccgagagacagacatagg
64283 I A GCTGAGGATCCGGACCACACTCACAGACAAGTT
64283 P A A CGCGCCGAGGAAGCCTTGAAATGCTAGACCV
64283 P C A CGCGCCGAGGCAGCCTTGAAATGCTAGACCV
64283 T A A ATGAGGTCTAGCATTTCAAGGCTTACTTGTCTGTGAGTGTGGTCCGGATCCTCAGCAT
64283 T C A ATGAGGTCTAGCATTTCAAGGCTGACTTGTCTGTGAGTGTGGTCCGGATCCTCAGCAT
64283 IS [AC] gaggatcacagggtgaatgctgaggatccggaccacactcacagacaag[AC]agccttgaaatgctagacctcatgcaccccaatccaatctcccactggac
64284 I S GGGAATGAATGAGGCTGCATGATGACCCACCA
64284 P G S CGCGCCGAGGCGCAGTCACCCAGCV
64284 P A S CGCGCCGAGGTGCAGTCACCCAGCGV
64284 T G S CCAGCGCTGGGTGACTGCGGGTGGGTCATCATGCAGCCTCATTCATTCCCCT
64284 T A S CCAGCGCTGGGTGACTGCAGGTGGGTCATCATGCAGCCTCATTCATTCCCCT
64284 IS [GA] ctlcctagggccttgagtcacatacaccacactccagcgctgggtgagtgc[GA]ggtgggtcatcatgcagcctcatlcatcccctcactggcctccaagggc
64286 I A AGGTGGGAGCAATTATCTCATGAATTTGGGATCAGTAACATCTTTTCCC
64286 P T A CGCGCCGAGGTATGAATAGTCTCAGCTACTGTCAV
64286 P A A CGCGCCGAGGAATGAATAGTCTCAGCTACTGTCAV
64286 T T A CCACTGACAGTAGCTGAGACTATTCATAGGAAAAGATGTTACTGATCCCAAATTCATGAGATAATTGCTCCCACCTTT
64286 T A A CCACTGACAGTAGCTGAGACTATTCATTGGAAAAGATGTTACTGATCCCAAATTCATGAGATAATTGCTCCCACCTTT
64286 IS [TA] aaaggtgggagcaattatctcatgaattgggatcagtaacatcttlcc[TA]atgaatagtctcagctactgtcagtggttttttttccottatttctctcc
64288 I A CTGTATGTATCCAAATATTTGTATATCATGTAGACAAGCCAAGAAAATACT
64288 P A A CGCGCCGAGGACAGATATGTAAGCCATTGCATAV
64288 P G A CGCGCCGAGGGCAGATATGTAAGCCATTGCAV
64288 T A A ATTCTATGCAATGGCTTACATATCTGTGTATTTTCTTGGCTTGTCTACATGATATACAAATATTTGGATACATACAG
64288 T G A ATTCTATGCAATGGCTTACATATCTGCGTATTTTCTTGGCTTGTCTACATGATATACAAATATTTGGATACATACAG
64288 IS [AG] clgtatgtatccaaatattgtatatcatgtagacaagccaagaaaatac[AG]cagatatgtaagccattgcatagaatggtaaagaatacattcttaataag
64290 I A TCGCCCCTCCTTTGCAGCCTCTT
64290 P A A CGCGCCGAGGACACCACTGCAGATCAAGV
64290 P G A CGCGCCGAGGGCACCACTGCAGATCAAGV
64290 T A A TGGGCTTGATCTGCAGTGGTGTAGAGGCTGCAAAGGAGGGGCGATT
64290 T G A TGGGCTTGATCTGCAGTGGTGCAGAGGCTGCAAAGGAGGGGCGATT
64290 IS [AG] aggtgggctatttctcacatatacaaaatcgcccctcctttgcagcctct[AG]caccactgcagatcaagcccagctaaacctgctgtgtctatcctgaaggt
64294 I A GCCAACTCTCTAACTTGGAGATGAGGCCCTCCA
64294 P T A CGCGCCGAGGTGACTTTCTTTCCCGGCTV
64294 P C A CGCGCCGAGGCGACTTTCTTTCCCGGCV
64294 T T A TGGGAGCCGGGAAAGAAAGTCAGGAGGGCCTCATCTCCAAGTTAGAGAGTTGGCCT
64294 T C A TGGGAGCCGGGAAAGAAAGTCGGGAGGGCCTCATCTCCAAGTTAGAGAGTTGGCCT
64294 IS [TC] cgacgctcicclcatcaggccaacicictaactggagatgaggcccicc[TC]gacttlcttlcccggctcccaccctcctgtccacccacctcctcagagtg
64297 I S CCTTTTTCCATCTCGCCCTGGCTGACCAAAAGTGT
64297 P C S CGCGCCGAGGGCTGTTTCTTCACTGTGACAV
64297 P T S CGCGCCGAGGACTGTTTCTTCACTGTGACAATV
64297 T C S AGAAATTGTCACAGTGAAGAAACAGCCACTTTTGGTCAGCCAGGGCAGATGGAAAAAGGGC
64297 T T S AGAAATTGTCACAGTGAAGAAACAGTCACTTTTGGTCAGCCAGGGCAGATGGAAAAAGGGC
64297 IS [CT] tctgtttgttgagcagcaacataaagaaattgtcacagtgaagaaacag[CT]cactttggtcagccagggcagatggaaaaagggcctaacgggtacacaa
64300 I A CTCCATCTGACGCATGCCCCCCATCATGA
64300 P T A CGCGCCGAGGTTCTGGTGCCTGGGGV
64300 P C A CGCGCCGAGGCTCTGGTGCCTGGGGV
64300 T T A GGTGCCCCAGGCACCAGAACATGATGGGGGGCATGCGTCAGATGGAGTC
64300 T C A GGTGCCCCAGGCACCAGAGCATGATGGGGGGCATGCGTCAGATGGAGTC
64300 IS [TC] gggcctcatgcccacatagactccatctgacgcatgccccccatcatg[TC]ctggtgcctggggcacccacgatggaagggaagacagcccgggggca
64302 I S AAATGTCATGGTTAATAGAATTGTGTCTTGAATATCTTTTCCACATCAGTT
64302 P C S CGCGCCGAGGGCATAGATCTAGGTTATCGTTAATGATV
64302 P T S CGCGCCGAGGACATAGATCTAGGTTATCGTTAATGATTTV
64302 T C S TATAAAATCATTAACGATAACCTAGATCTATGCACTGATGTGGAAAAGATATTCAAGACACAATTCTATTAACCATGACA TTT
64302 T T S TATAAAATCATTAACGATAACCTAGATCTATGTACTGATGTGGAAAAGATATTCAAGACACAATTCTATTAACCATGACA TTT
64302 IS [CT] aacactggataaaaatgctataaaatcattaacgatAacctagatctatg[CT]actgatgtggaaaagatattcaagacacaattctattaaccatgacatt
64305 I S ACAGTCCTCCAATGTGCTGGGGTGTT
64305 P T S CGCGCCGAGGATGTCCCTGATGAATACTCACV
64305 P C S CGCGCCGAGGGTGTCCCTGATGAATACTCACV
64305 T T S TTTGGTGAGTATTCATCAGGGACATACACCCCAGCACATTGGAGGACTGTAG
64305 T C S TTTGGTGAGTATTCATCAGGGACACACACCCCAGCACATTGGAGGACTGTAG

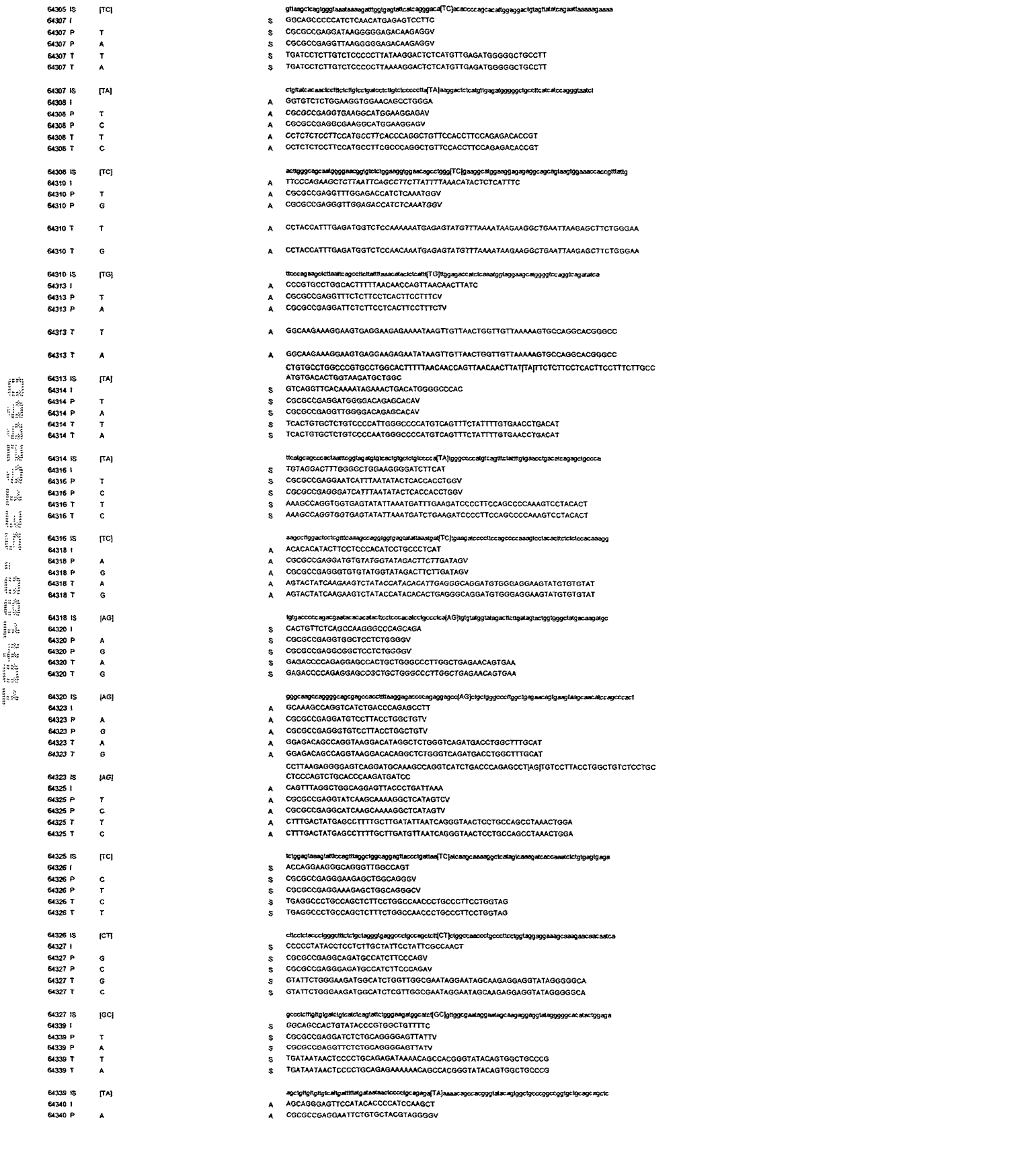
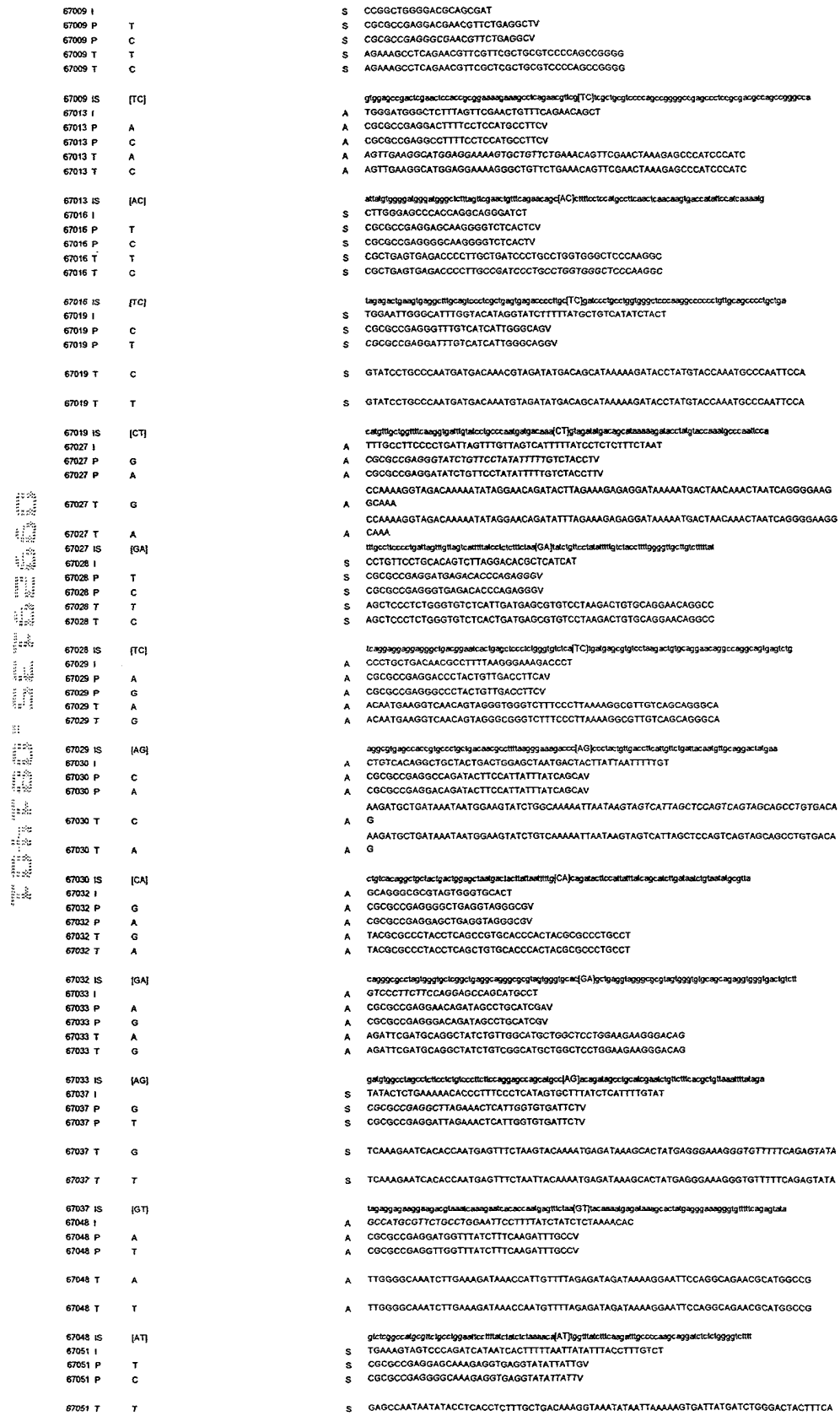

64305 IS [TC] gttaagctcagtgggtaaataaagattggtgagtattcatcagggaca[TC]acacccagcacattggaggactgtagttatatcagaattaaaaagaaaa
64307 I S GGCAGCCCCCATCTCAACATGAGAGTCCTTC
64307 P T S CGCGCCGAGGATAAGGGGGAGACAAGAGGV
64307 P A S CGCGCCGAGGTTAAGGGGGAGACAAGAGGV
64307 T T S TGATCCTCTTGTCTCCCCCTTATAAGGACTCTCATGTTGAGATGGGGGCTGCCTT
64307 T A S TGATCCTCTTGTCTCCCCCTTAAAAGGACTCTCATGTTGAGATGGGGGCTGCCTT
64307 IS [TA] ctgtatcacaacicctttctctgtcctgatcctctgtctccccctta[TA]aaggactctcatgttgagatgggggctgccttcatcatccagggtaatct
64308 I A GGTGTCTCTGGAAGGTGGAACAGCCTGGGA
64308 P T A CGCGCCGAGGTGAAGGCATGGAAGGAGAV
64308 P C A CGCGCCGAGGCGAAGGCATGGAAGGAGV
64308 T T A CCTCTCTCCTTCCATGCCTTCACCCAGGCTGTTCCACCTTCCAGAGACACCGT
64308 T C A CCTCTCTCCTTCCATGCCTTCGCCCAGGCTGTTCCACCTTCCAGAGACACCGT
64308 IS [TC] acttgggcagcaatgggaacggtgtctctggaaggtggaacagcctggg[TC]gaaggcatggaaggagagaggcagcagtaagtggaaaccaccgtttattg
64310 I A TTCCCAGAAGCTCTTAATTCAGCCTTCTTATTTTAAACATACTCTCATTTC
64310 P T A CGCGCCGAGGTTTGGAGACCATCTCAAATGGV
64310 P G A CGCGCCGAGGGTTGGAGACCATCTCAAATGGV
64310 T T A CCTACCATTTGAGATGGTCTCCAAAAAATGAGAGTATGTTTAAAATAAGAAGGCTGAATTAAGAGCTTCTGGGAA
64310 T G A CCTACCATTTGAGATGGTCTCCAACAAATGAGAGTATGTTTAAAATAAGAAGGCTGAATTAAGAGCTTCTGGGAA
64310 IS [TG] ttcccagaagcictiaattcagcctictiattttaaacatacictcattt[TG]tggagaccatctcaaatggtaggaagcatggggtccaggtcagatatca
64313 I A CCCGTGCCTGGCACTTTTTAACAACCAGTTAACAACTTATC
64313 P T A CGCGCCGAGGTTTCTCTTCCTCACTTCCTTTCV
64313 P A A CGCGCCGAGGATTCTCTTCCTCACTTCCTTTCTV
64313 T T A GGCAAGAAAGGAAGTGAGGAAGAGAAATAAGTTGTTAACTGGTTGTTAAAAAGTGCCAGGCACGGGCC
64313 T A A GGCAAGAAAGGAAGTGAGGAAGAGAATATAAGTTGTTAACTGGTTGTTAAAAAGTGCCAGGCACGGGCC
64313 IS [TA] CTGTGCCTGGCCCGTGCCTGGCACTTTTTAACAACCAGTTAACAACTTAT[TA]TTCTCTTCCTCACTTCCTTTCTTGCC
64314 I S ATGTGACACTGGTAAGATGCTGGC
64314 P T S GTCAGGTTCACAAAATAGAAACTGACATGGGGCCCAC
64314 P A S CGCGCCGAGGATGGGGACAGAGCACAV
64314 T T S CGCGCCGAGGTTGGGGACAGAGCACAV
64314 T A S TCACTGTGCTCTGTCCCCATTGGGCCCCATGTCAGTTTCTATTTTGTGAACCTGACAT
64314 IS [TA] TCACTGTGCTCTGTCCCCAATGGGCCCCATGTCAGTTTCTATTTTGTGAACCTGACAT
64316 I S ttcatgcagcccactaatttcggtagatgtgtcactgtgctctgtcccca[TA]tgggcccatgtcagtttctatttgtgaacctgacatcagagctgccca
64316 P T S TGTAGGACTTTGGGGCTGGAAGGGGATCTTCAT
64316 P C S CGCGCCGAGGAATCATTTAATATACTCACCACCTGGV
64316 T T S CGCGCCGAGGGATCATTTAATATACTCACCACCTGGV
64316 T C S AAAGCCAGGTGGTGAGTATATTAAATGATTTGAAGATCCCCTTCCAGCCCCAAAGTCCTACACT
64316 IS [TC] AAAGCCAGGTGGTGAGTATATTAAATGATCTGAAGATCCCCTTCCAGCCCCAAAGTCCTACACT
64318 I A aagccttggactcctcgttticaaagccagggtggtgagtatattaaatgat[TC]gaagatcccctccagccccaaagtcctacactctctctccacaaagg
64318 P A S ACACACATACTTCCTCCCACATCCTGCCCTCAT
64318 P G S CGCGCCGAGGATGTGTATGGTATAGACTTCTTGATAGV
64318 T A S CGCGCCGAGGGTGTGTATGGTATAGACTTCTTGATAGV
64318 T G S AGTACTATCAAGAAGTCTATACCATACACACTGAGGGCAGGATGTGGGAGGAAGTATGTGTGTAT
64318 IS [AG] AGTACTATCAAGAAGTCTATACCATACACACTGAGGGCAGGATGTGGGAGGAAGTATGTGTGTAT
64320 I tgtgacccccagacgaatacacactactcctcccacatcctgcccica[AG]tgtgtatggtatagacttcttgatagtactggtgggctatgacaagatgc
64320 P A S CACTGTTCTCAGCCAAGGGCCCAGCAGA
64320 P G S CGCGCCGAGGTGGCTCCTCTGGGGV
64320 T A S CGCGCCGAGGCGGCTCCTCTGGGGV
64320 T G S GAGACCCCAGAGGAGCCACTGCTGGGCCCTTGGCTGAGAACAGTGAA
64320 IS [AG] GAGACCCCAGAGGAGCCGCTGCTGGGCCCTTGGCTGAGAACAGTGAA
64323 I gggcaagccaggggcagcgagccaccttttaaggagacccccagaggagcc[AG]ctgctgggcccttggctgagaacagtgaagtaagcaacatccagcccact
64323 P A A GCAAAGCCAGGTCATCTGACCCAGAGCCTT
64323 P G A CGCGCCGAGGATGTCCTTACCTGGCTGTV
64323 T A A CGCGCCGAGGGTGTCCTTACCTGGCTGTV
64323 T G A GGAGACAGCCAGGTAAGGACATAGGCTCTGGGTCAGATGACCTGGCTTTGCAT
64323 IS [AG] GGAGACAGCCAGGTAAGGACACAGGCTCTGGGTCAGATGACCTGGCTTTGCAT
64325 I CCTTAAGAGGGGAGTCAGGATGCAAAGCCAGGTCATCTGACCCAGAGCCT[AG]TGTCCTTACCTGGCTGTCTCCTGC
64325 P T A CTCCCAGTCTGCACCCAAGATGATCC
64325 P C A CAGTTTAGGCTGGCAGGAGTTACCCTGATTAAA
64325 T T A CGCGCCGAGGTATCAAGCAAAAGGCTCATAGTCV
64325 T C A CGCGCCGAGGCATCAAGCAAAAGGCTCATAGTV
CTTTGACTATGAGCCTTTTGCTTGATATTAATCAGGGTAACTCCTGCCAGCCTAAACTGGA
64325 IS [TC] CTTTGACTATGAGCCTTTTGCTTGATGTTAATCAGGGTAACTCCTGCCAGCCTAAACTGGA
64326 I tctggagtaaagtatttccagtttaggctggcaggagttacccigattaa[TC]atcaagcaaaaggctcatagtcaaagatcaccaaatctctgtgagtgaga
64326 P C S ACCAGGAAGGGCAGGGTTGGCCAGT
64326 P T S CGCGCCGAGGGAAGAGCTGGCAGGGV
64326 T C S CGCGCCGAGGAAAGAGCTGGCAGGGV
64326 T T S TGAGGCCCTGCCAGCTCTTCCTGGCCAACCCTGCCCTTCCTGGTAG
64326 IS [CT] TGAGGCCCTGCCAGCTCTTTCTGGCCAACCCTGCCCTTCCTGGTAG
64327 I ctcctctacccigggctttctctgctagggtgaggccctgccagctct[CT]ctggccaacccigccctccigglaggaggaaagcaaagaacaccaatca
64327 P G S CCCCCTATACCTCCTCTTGCTATTCCTATTCGCCAACT
64327 P C S CGCGCCGAGGCAGATGCCATCTTCCCAGV
64327 T G S CGCGCCGAGGGAGATGCCATCTTCCCAGAV
64327 T C S GTATTCTGGGAAGATGGCATCTGGTTGGCGAATAGGAATAGCAAGAGGAGGTATAGGGGGCA
64327 IS [GC] GTATTCTGGGAAGATGGCATCTCGTTGGCGAATAGGAATAGCAAGAGGAGGTATAGGGGGCA
64339 I gcccictttgttgtgatctgtcatctcagtattctgggaagatggcatct[GC]gttggcgaataggaatagcaagaggaggtatagggggcacatactggaga
64339 P S GGCAGCCACTGTATACCCGTGGCTGTTTTC
64339 T S CGCGCCGAGGATCTCTGCAGGGGAGTTATTV
64339 P A S CGCGCCGAGGTTCTCTGCAGGGGAGTTATV
64339 T T S TGATAATAACTCCCCTGCAGAGATAAAACAGCCACGGGTATACAGTGGCTGCCCG
64339 T A S TGATAATAACTCCCCTGCAGAGAAAAAACAGCCACGGGTATACAGTGGCTGCCCG
64339 IS [TA] agctgttgttgtgtcatgattttatgatataactcccctgcagaga[TA]aaaacagccacgggtatacagtggctgcccggccggtgctgcagcagctc
64340 I A AGCAGGGAGTTCCATACACCCCATCCAAGCT
64340 P A A CGCGCCGAGGAATTCTGTGCTACGTAGGGGV

FIGURE 129D



FIGURE 129D


67009 I S CCGGCTGGGGACGCAGCGAT
67009 P T S CGCGCCGAGGACGAACGTTCTGAGGCTV
67009 P C S CGCGCCGAGGGCGAACGTTCTGAGGCV
67009 T T S AGAAAGCCTCAGAACGTTCGTTCGCTGCGTCCCCAGCCGGGG
67009 T C S AGAAAGCCTCAGAACGTTCGCTCGCTGCGTCCCCAGCCGGGG
67009 IS [TC]
67013 I A TGGGATGGGCTCTTTAGTTCGAACTGTTTCAGAACAGCT
67013 P A A CGCGCCGAGGACTTTTCCTCCATGCCTTCV
67013 P C A CGCGCCGAGGCCTTTTCCTCCATGCCTTCV
67013 T A A AGTTGAAGGCATGGAGGAAAAGTGCTGTTCTGAAACAGTTCGAACTAAAGAGCCCATCCCATC
67013 T C A AGTTGAAGGCATGGAGGAAAAGGGCTGTTCTGAAACAGTTCGAACTAAAGAGCCCATCCCATC
67013 IS [AC]
67016 I S CTTGGGAGCCCACCAGGCAGGGATCT
67016 P T S CGCGCCGAGGAGCAAGGGGTCTCACTCV
67016 P C S CGCGCCGAGGGGCAAGGGGTCTCACTV
67016 T T S CGCTGAGTGAGACCCCTTGCTGATCCCTGCCTGGTGGGCTCCCAAGGC
67016 T C S CGCTGAGTGAGACCCCTTGCCGATCCCTGCCTGGTGGGCTCCCAAGGC
67016 IS [TC]
67019 I S TGGAATTGGGCATTTGGTACATAGGTATCTTTTTATGCTGTCATATCTACT
67019 P C S CGCGCCGAGGGTTTGTCATCATTGGGCAGV
67019 P T S CGCGCCGAGGATTTGTCATCATTGGGCAGGV
67019 T C S GTATCCTGCCCAATGATGACAAACGTAGATATGACAGCATAAAAAGATACCTATGTACCAAATGCCCAATTCCA
67019 T T S GTATCCTGCCCAATGATGACAAATGTAGATATGACAGCATAAAAAGATACCTATGTACCAAATGCCCAATTCCA
67019 IS [CT]
67027 I A TTTGCCTTCCCCTGATTAGTTTGTTAGTCATTTTTATCCTCTCTTTCTAAT
67027 P G A CGCGCCGAGGGTATCTGTTCCTATATTTTTGTCTACCTV
67027 P A A CGCGCCGAGGATATCTGTTCCTATATTTTTGTCTACCTV
67027 T G A CCAAAAGGTAGACAAAAATATAGGAACAGATACTTAGAAAGAGAGGATAAAAATGACTAACAAACTAATCAGGGGAAG GCAAA
67027 T A A CCAAAAGGTAGACAAAAATATAGGAACAGATATTTAGAAAGAGAGGATAAAAATGACTAACAAACTAATCAGGGGAAGG CAAA
67027 IS [GA]
67028 I S CCTGTTCCTGCACAGTCTTAGGACACGCTCATCAT
67028 P T S CGCGCCGAGGATGAGACACCCAGAGGGV
67028 P C S CGCGCCGAGGGTGAGACACCCAGAGGGV
67028 T T S AGCTCCCTCTGGGTGTCTCATTGATGAGCGTGTCCTAAGACTGTGCAGGAACAGGCC
67028 T C S AGCTCCCTCTGGGTGTCTCACTGATGAGCGTGTCCTAAGACTGTGCAGGAACAGGCC
67028 IS [TC]
67029 I A CCCTGCTGACAACGCCTTTTAAGGGAAAGACCCT
67029 P A A CGCGCCGAGGACCCTACTGTTGACCTTCAV
67029 P G A CGCGCCGAGGGCCCTACTGTTGACCTTCV
67029 T A A ACAATGAAGGTCAACAGTAGGGTGGGTCTTTCCCTTAAAAGGCGTTGTCAGCAGGGCA
67029 T G A ACAATGAAGGTCAACAGTAGGGCGGGTCTTTCCCTTAAAAGGCGTTGTCAGCAGGGCA
67029 IS [AG]
67030 I A CTGTCACAGGCTGCTACTGACTGGAGCTAATGACTACTTATTAATTTTTGT
67030 P C A CGCGCCGAGGCCAGATACTTCCATTATTTATCAGCAV
67030 P A A CGCGCCGAGGACAGATACTTCCATTATTTATCAGCAV
67030 T C A AAGATGCTGATAAATAATGGAAGTATCTGGCAAAAATTAATAAGTAGTCATTAGCTCCAGTCAGTAGCAGCCTGTGACA G
67030 T A A AAGATGCTGATAAATAATGGAAGTATCTGTCAAAAATTAATAAGTAGTCATTAGCTCCAGTCAGTAGCAGCCTGTGACA G
67030 IS [CA]
67032 I A GCAGGGCGCGTAGTGGGTGCACT
67032 P G A CGCGCCGAGGGGCTGAGGTAGGGCGV
67032 P A A CGCGCCGAGGAGCTGAGGTAGGGCGV
67032 T G A TACGCGCCCTACCTCAGCCGTGCACCCACTACGCGCCCTGCCT
67032 T A A TACGCGCCCTACCTCAGCTGTGCACCCACTACGCGCCCTGCCT
67032 IS [GA]
67033 I A GTCCCTTCTTCCAGGAGCCAGCATGCCT
67033 P A A CGCGCCGAGGAACAGATAGCCTGCATCGAV
67033 P G A CGCGCCGAGGGACAGATAGCCTGCATCGV
67033 T A A AGATTCGATGCAGGCTATCTGTTGGCATGCTGGCTCCTGGAAGAAGGGACAG
67033 T G A AGATTCGATGCAGGCTATCTGTCGGCATGCTGGCTCCTGGAAGAAGGGACAG
67033 IS [AG]
67037 I S TATACTCTGAAAAACACCCTTTCCCTCATAGTGCTTTATCTCATTTTGTAT
67037 P G S CGCGCCGAGGCTTAGAAACTCATTGGTGTGATTCTV
67037 P T S CGCGCCGAGGATTAGAAACTCATTGGTGTGATTCTV
67037 T G S TCAAAGAATCACACCAATGAGTTTCTAAGTACAAAATGAGATAAAGCACTATGAGGGAAAGGGTGTTTTTCAGAGTATA
67037 T T S TCAAAGAATCACACCAATGAGTTTCTAATTACAAAATGAGATAAAGCACTATGAGGGAAAGGGTGTTTTTCAGAGTATA
67037 IS [GT]
67048 I A GCCATGCGTTCTGCCTGGAATTCCTTTTATCTATCTCTAAAACAC
67048 P A A CGCGCCGAGGATGGTTTATCTTTCAAGATTTGCCV
67048 P T A CGCGCCGAGGTTGGTTTATCTTTCAAGATTTGCCV
67048 T A A TTGGGGCAAATCTTGAAAGATAAACCATTGTTTTAGAGATAGATAAAAGGAATTCCAGGCAGAACGCATGGCCG
67048 T T A TTGGGGCAAATCTTGAAAGATAAACCAATGTTTTAGAGATAGATAAAAGGAATTCCAGGCAGAACGCATGGCCG
67048 IS [AT]
67051 I S TGAAAGTAGTCCCAGATCATAATCACTTTTTAATTATATTTACCTTTGTCT
67051 P T S CGCGCCGAGGAGCAAAGAGGTGAGGTATATTATTGV
67051 P C S CGCGCCGAGGGGCAAAGAGGTGAGGTATATTATTV
67051 T T S GAGCCAATAATATACCTCACCTCTTTGCTGACAAAGGTAAATATAATTAAAAAGTGATTATGATCTGGGACTACTTTCA

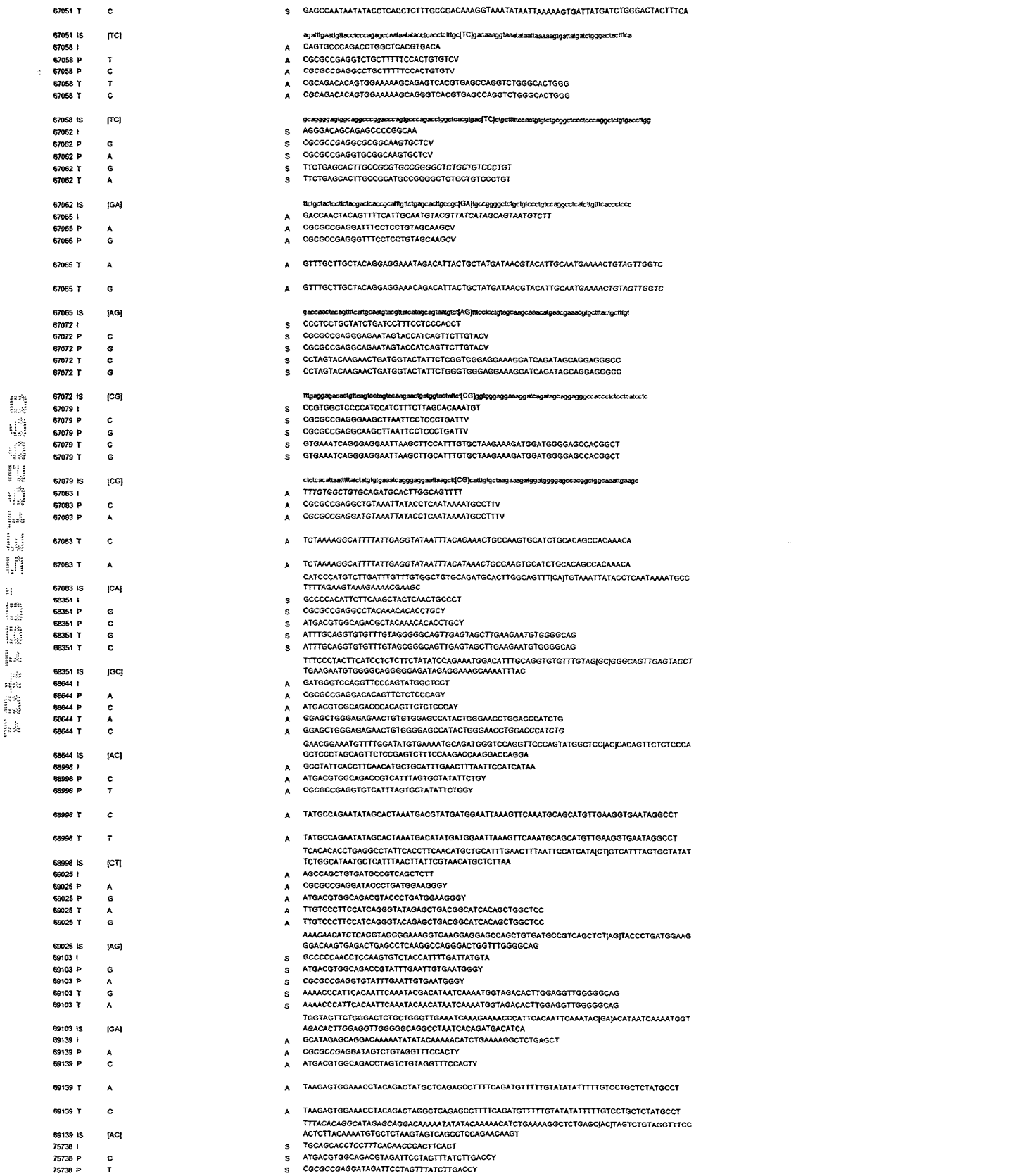

67051 T C S GAGCCAATAATATACCTCACCTCTTTGCCGACAAAGGTAAATATAATTAAAAAGTGATTATGATCTGGGACTACTTTCA
67051 IS [TC] agattgaatgttacctcccagagccaatatatacctcacctcttgc[TC]gacaaaggtaaatataattaaaaagtgattatgatctgggactactttca
67058 I A CAGTGCCCAGACCTGGCTCACGTGACA
67058 P T A CGCGCCGAGGTCTGCTTTTTCCACTGTGTCV
67058 P C A CGCGCCGAGGCCTGCTTTTTCCACTGTGTV
67058 T T A CGCAGACACAGTGGAAAAAGCAGAGTCACGTGAGCCAGGTCTGGGCACTGGG
67058 T C A CGCAGACACAGTGGAAAAAGCAGGGTCACGTGAGCCAGGTCTGGGCACTGGG
67058 IS [TC] gcagggggagtggcaggcccggacccagtgcccagacctggctcacgtgac[TC]ctgcttttccactgtgtctgcggctccctcccaggctctgtgacctgg
67062 I S AGGGACAGCAGAGCCCCGGCAA
67062 P G S CGCGCCGAGGCGCGGCAAGTGCTCV
67062 P A S CGCGCCGAGGTGCGGCAAGTGCTCV
67062 T G S TTCTGAGCACTTGCCGCGTGCCGGGGCTCTGCTGTCCCTGT
67062 T A S TTCTGAGCACTTGCCGCATGCCGGGGCTCTGCTGTCCCTGT
67062 IS [GA] ttctgctactcctctacgactcaccgcatttgttctgagcactttgccgc[GA]tgccggggctctgctgtcccagggcctcatcttgtttcacccccc
67065 I A GACCAACTACAGTTTTCATTGCAATGTACGTTATCATAGCAGTAATGTCTT
67065 P A A CGCGCCGAGGATTTCCTCCTGTAGCAAGCV
67065 P G A CGCGCCGAGGGTTTCCTCCTGTAGCAAGCV
67065 T A A GTTTGCTTGCTACAGGAGGAAATAGACATTACTGCTATGATAACGTACATTGCAATGAAAACTGTAGTTGGTC
67065 T G A GTTTGCTTGCTACAGGAGGAAACAGACATTACTGCTATGATAACGTACATTGCAATGAAAACTGTAGTTGGTC
67065 IS [AG] gaccaactacagtttcattgcaatgtacgttatcatagcagtaatgtct[AG]tttcctcctgtagcaagcaaacatgeacgaaacgtgctttactgcttgt
67072 I S CCCTCCTGCTATCTGATCCTTTCCTCCCACCT
67072 P C S CGCGCCGAGGGAGAATAGTACCATCAGTTCTTGTACV
67072 P G S CGCGCCGAGGCAGAATAGTACCATCAGTTCTTGTACV
67072 T C S CCTAGTACAAGAACTGATGGTACTATTCTCGGTGGGAGGAAAGGATCAGATAGCAGGAGGGCC
67072 T G S CCTAGTACAAGAACTGATGGTACTATTCTGGGTGGGAGGAAAGGATCAGATAGCAGGAGGGCC
67072 IS [CG] tttgaggagacactgttcagtcctagtacaagaactgatggtactattct[CG]ggtgggaggaaaggatcagatagcaggagggccacccactcctcatccctc
67079 I S CCGTGGCTCCCCATCCATCTTTCTTAGCACAAATGT
67079 P C S CGCGCCGAGGGAAGCTTAATTCCTCCCTGATTV
67079 P G S CGCGCCGAGGCAAGCTTAATTCCTCCCTGATTV
67079 T C S GTGAAATCAGGGAGGAATTAAGCTTCCATTTGTGCTAAGAAAGATGGATGGGGAGCCACGGCT
67079 T G S GTGAAATCAGGGAGGAATTAAGCTTGCATTTGTGCTAAGAAAGATGGATGGGGAGCCACGGCT
67079 IS [CG] ctctcacattaatttttatctatgtgtgaaatcagggaggaatdaagctt[CG]cattttgtgctaagaaagatggatggggagccacggctggcaaattgaagc
67083 I A TTTGTGGCTGTGCAGATGCACTTGGCAGTTTT
67083 P C A CGCGCCGAGGCTGTAAATTATACCTCAATAAAATGCCTTV
67083 P A A CGCGCCGAGGATGTAAATTATACCTCAATAAAATGCCTTTV
67083 T C A TCTAAAAGGCATTTTATTGAGGTATAATTTACAGAAACTGCCAAGTGCATCTGCACAGCCACAAACA
67083 T A A TCTAAAAGGCATTTTATTGAGGTATAATTTACATAAACTGCCAAGTGCATCTGCACAGCCACAAACA
67083 IS [CA] CATCCCATGTCTTGATTTGTTTGTGGCTGTGCAGATGCACTTGGCAGTTT[CA]TGTAAATTATACCTCAATAAAATGCC
TTTTAGAAGTAAAGAAAACGAAGC
68351 I S GCCCCACATTCTTCAAGCTACTCAACTGCCCT
68351 P G S CGCGCCGAGGCCTACAAACACACCTGCY
68351 P C S ATGACGTGGCAGACGCTACAAACACACCTGCY
68351 T G S ATTTGCAGGTGTGTTTGTAGGGGGCAGTTGAGTAGCTTGAAGAATGTGGGGCAG
68351 T C S ATTTGCAGGTGTGTTTGTAGCGGGCAGTTGAGTAGCTTGAAGAATGTGGGGCAG
68351 IS [GC] TTTCCCTACTTCATCCTCTCTTCTATATCCAGAAATGGACATTTGCAGGTGTGTTTGTAG[GC]GGGCAGTTGAGTAGCT
TGAAGAATGTGGGGCAGGGGGGAGATAGAGGAAAGCAAAATTTAC
68644 I A GATGGGTCCAGGTTCCCAGTATGGCTCCT
68644 P A A CGCGCCGAGGACACAGTTCTCTCCCAGY
68644 P C A ATGACGTGGCAGACCCACAGTTCTCTCCCAY
68644 T A A GGAGCTGGGAGAGAACTGTGTGGAGCCATACTGGGAACCTGGACCCATCTG
68644 T C A GGAGCTGGGAGAGAACTGTGGGGAGCCATACTGGGAACCTGGACCCATCTG
68644 IS [AC] GAACGGAAATGTTTTGGATATGTGAAAATGCAGATGGGTCCAGGTTCCCAGTATGGCTCC[AC]CACAGTTCTCTCCCA
GCTCCCTAGCAGTTCTCCGAGTCTTTCCAAGACCAAGGACCAGGA
68998 I A GCCTATTCACCTTCAACATGCTGCATTTGAACTTTAATTCCATCATAA
68998 P C A ATGACGTGGCAGACCGTCATTTAGTGCTATATTCTGY
68998 P T A CGCGCCGAGGTGTCATTTAGTGCTATATTCTGGY
68998 T C A TATGCCAGAATATAGCACTAAATGACGTATGATGGAATTAAAGTTCAAATGCAGCATGTTGAAGGTGAATAGGCCT
68998 T T A TATGCCAGAATATAGCACTAAATGACATATGATGGAATTAAAGTTCAAATGCAGCATGTTGAAGGTGAATAGGCCT
68998 IS [CT] TCACACACCTGAGGCCTATTCACCTTCAACATGCTGCATTTGAACTTTAATTCCATCATA[CT]GTCATTTAGTGCTATAT
TCTGGCATAATGCTCATTTAACTTATTCGTAACATGCTCTTAA
69025 I A AGCCAGCTGTGATGCCGTCAGCTCTT
69025 P A A CGCGCCGAGGATACCCTGATGGAAGGGY
69025 P G A ATGACGTGGCAGACGTACCCTGATGGAAGGGY
69025 T A A TTGTCCCTTCCATCAGGGTATAGAGCTGACGGCATCACAGCTGGCTCC
69025 T G A TTGTCCCTTCCATCAGGGTACAGAGCTGACGGCATCACAGCTGGCTCC
69025 IS [AG] AAACAACATCTCAGGTAGGGGAAAGGTGAAGGAGGAGCCAGCTGTGATGCCGTCAGCTCT[AG]TACCCTGATGGAAG
GGACAAGTGAGACTGAGCCTCAAGGCCAGGGACTGGTTTGGGGCAG
69103 I S GCCCCCAACCTCCAAGTGTCTACCATTTTGATTATGTA
69103 P G S ATGACGTGGCAGACCGTATTTGAATTGTGAATGGGY
69103 P A S CGCGCCGAGGTGTATTTGAATTGTGAATGGGY
69103 T G S AAAACCCATTCACAATTCAAATACGACATAATCAAAATGGTAGACACTTGGAGGTTGGGGGCAG
69103 T A S AAAACCCATTCACAATTCAAATACAACATAATCAAAATGGTAGACACTTGGAGGTTGGGGGCAG
69103 IS [GA] TGGTAGTTCTGGGACTCTGCTGGGTTGAAATCAAAGAAAACCCATTCACAATTCAAATAC[GA]ACATAATCAAAATGGT
AGACACTTGGAGGTTGGGGGCAGGCCTAATCACAGATGACATCA
69139 I A GCATAGAGCAGGACAAAAATATATACAAAAACATCTGAAAAGGCTCTGAGCT
69139 P A A CGCGCCGAGGATAGTCTGTAGGTTTCCACTY
69139 P C A ATGACGTGGCAGACCTAGTCTGTAGGTTTCCACTY
69139 T A A TAAGAGTGGAAACCTACAGACTATGCTCAGAGCCTTTTCAGATGTTTTTGTATATATTTTTGTCCTGCTCTATGCCT
69139 T C A TAAGAGTGGAAACCTACAGACTAGGCTCAGAGCCTTTTCAGATGTTTTTGTATATATTTTTGTCCTGCTCTATGCCT
69139 IS [AC] TTTACACAGGCATAGAGCAGGACAAAAATATATACAAAAACATCTGAAAAGGCTCTGAGC[AC]TAGTCTGTAGGTTTCC
ACTCTTACAAAATGTGCTCTAAGTAGTCAGCCTCCAGAACAAGT
75738 I S TGCAGCACCTCCTTTCACAACCGACTTCACT
75738 P C S ATGACGTGGCAGACGTAGATTCCTAGTTTATCTTGACCY
75738 P T S CGCGCCGAGGATAGATTCCTAGTTTATCTTGACCY

FIGURE 129D

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75738 T   C     S  TGCTGGTCAAGATAAACTAGGAATCTACGTGAAGTCGGTTGTGAAAGGAGGTGCTGCAGA
75738 T   T     S  TGCTGGTCAAGATAAACTAGGAATCTATGTGAAGTCGGTTGTGAAAGGAGGTGCTGCAGA
                    ATGCAGTGTTTTCGCCTTGTTTTTGCAATAGGGTGCTGGTCAAGATAAACTAGGAATCTA[CT]GTGAAGTCGGTTGTG
75738 IS  [CT]      AAAGGAGGTGCTGCAGATGTGGTCAGTATCATTTTGAAAGAAGTA
75762 I           S  GCTGAAGCAGCAGAAGAAAGGTAGGAACAAAGAACTGATTT
75762 P   G       S  CGCGCCGAGGCATGACCTTGGGACTAAGY
75762 P   C       S  ATGACGTGGCAGACGATGACCTTGGGACTAAGY
75762 T   G       S  GCAGCTTAGTCCCAAGGTCATGAATCAGTTCTTTGTTCCTACCTTTCTTCTGCTGCTTCAGCTG
75762 T   C       S  GCAGCTTAGTCCCAAGGTCATCAATCAGTTCTTTGTTCCTACCTTTCTTCTGCTGCTTCAGCTG
                    CTTCCCACACCACGTGACACAGTCCTTATGCTGGAATTGGCAGCTTAGTCCCAAGGTCAT[GC]AATCAGTTCTTTGTT
75762 IS  [GC]      CCTACCTTTCTTCTGCTGCTTCAGCTGCTTCTGCTTTTTCTTCTT
75774 I           S  GACTGTCTTATATATGTATTGAGAACATGTCCTTTGTATTACTTGAGAAACATT
75774 P   T       S  CGCGCCGAGGACAGTCAGAATTGTTTGACAY
75774 P   G       S  ATGACGTGGCAGACCCAGTCAGAATTGTTTGACAY

75774 T   T       S  TATATGTCAAACAATTCTGACTGTATGTTTCTCAAGTAATACAAAGGACATGTTCTCAATACATATATAAGACAGTCAC

75774 T   G       S  TATATGTCAAACAATTCTGACTGGATGTTTCTCAAGTAATACAAAGGACATGTTCTCAATACATATATAAGACAGTCAC
                    CTAGTTTTGTTCAAAGAGCAGATCCAAGGGTGTAGGCTATATGTCAAACAATTCTGACTG[TG]ATGTTTCTCAAGTAAT
75774 IS  [TG]      ACAAAGGACATGTTCTCAATACATATATAAGACAGTCACCATTC
75872 I           S  ACGTTAGTCAATCTGCAAAAAAATTATTTTGTTTAATGACTACCTATCAAATGTATTATC
75872 P   A       S  CGCGCCGAGGTAGGTTGCAGAGCTTGGY
75672 P   C       S  ATGACGTGGCAGACGAGGTTGCAGAGCTTGY
                    CTTACCAAGCTCTGCAACCTAATAATACATTTGATAGGTAGTCATTAAACAAAATAATTTTTTTGCAGATTGACTAACGT
75872 T   A       S  T
                    CTTACCAAGCTCTGCAACCTCATAATACATTTGATAGGTAGTCATTAAACAAAATAATTTTTTTGCAGATTGACTAACGT
75672 T   C       S  T
                    TTTATATCTCATAATACATTCTTCCCCTTTTTTCCCTTTGCTTACCAAGCTCTGCAACCT[AC]ATAATACATTTGATAGGT
75872 IS  [AC]      AGTCATTAAACAAAATAATTTTTTTGCAGATTGACTAACGTT
75906 I           A  CAGCCGCTGACCACCTCTCCAACAGAAT
75906 P   G       A  ATGACGTGGCAGACGCCTAGTCCTGTTCAGAY
75906 P   A       A  CGCGCCGAGGACCTAGTCCTGTTCAGAGY
75906 T   G       A  GCTGCTCTGAACAGGACTAGGCTTCTGTTGGAGAGGTGGTCAGCGGCTGCT
75906 T   A       A  GCTGCTCTGAACAGGACTAGGTTTCTGTTGGAGAGGTGGTCAGCGGCTGCT
                    AGCCATGGGTGAGGCAGCTTGTGACCTGCCTAGCAGCCGCTGACCACCTCTCCAACAGAA[GA]CCTAGTCCTGTTCA
75906 IS  [GA]      GAGCAGCACTGTCACTGCAAGTCCAGCCCCCTTTGCCAGGGGCTCC                                          FLJ20511
75912 I           A  GAGGCATATCGGGCACGGTGTTAAATATCTGCAAACT
75912 P   G       A  ATGACGTGGCAGACGAAGTTTCACAACAAGGTTACY
75912 P   A       A  CGCGCCGAGGAAAGTTTCACAACAAGGTTACY
75912 T   G       A  GTGAGTAACCTTGTTGTGAAACTTCGTTTGCAGATATTTAACACCGTGCCCGATATGCCTCTC
75912 T   A       A  GTGAGTAACCTTGTTGTGAAACTTTGTTTGCAGATATTTAACACCGTGCCCGATATGCCTCTC
                    ACAGGTGCAGCTGGGCATTGGTGAGAGGCATATCGGGCACGGTGTTAAATATCTGCAAAC[GA]AAGTTTCACAACAAG
75912 IS  [GA]      GTTACTCACATCTGTGGACTGGGAAGAAAACAGGCCTGAAGCAGT
76056 I           S  ACCGTTGGCAGCAAACAATTGACATTCACGTTAAAGAT
76056 P   C       S  ATGACGTGGCAGACGGGTGAGTTGTCTTTTATTGTY
76056 P   G       S  CGCGCCGAGGCGGTGAGTTGTCTTTTATTGY
76056 T   C       S  AATAACAATAAAAGACAACTCACCCTCTTTAACGTGAATGTCAATTGTTTGCTGCCAACGGTGG
76056 T   G       S  AATAACAATAAAAGACAACTCACCGTCTTTAACGTGAATGTCAATTGTTTGCTGCCAACGGTGG
                    ACTATTGAAAGGCTATTTTTCTTTTGTGAATTAAAAAATAACAATAAAAGACAACTCACC[CG]TCTTTAACGTGAATGTC
76056 IS  [CG]      AATTGTTTGCTGCCAACGGTGGTGTCGGATACACTCAATGTCC
76113 I           A  TCCTTGATCCCTCCTTGGCCAGGCCT
76113 P   G       A  ATGACGTGGCAGACGTCCTGCGATGTGCY
76113 P   A       A  CGCGCCGAGGATCCTGCGATGTGCTY
76113 T   G       A  CACCAGCACATCGCAGGACGGCCTGGCCAAGGAGGGATCAAGGATG
76113 T   A       A  CACCAGCACATCGCAGGATGGCCTGGCCAAGGAGGGATCAAGGATG
                    GTGTAGGCCAGGTGGCTCCCTCAACTCACCAGCCATCCTTGATCCCTCCTTGGCCAGGCC[GA]TCCTGCGATGTGCT
76113 IS  [GA]      GGTGGAAAGGGGGCCGATGGCCTGTTTAAACCCACCTGTGATGGAT
76177 I           S  AGGAATGAAAATACAAGAGGTCATGCAGGGAGGCTT
76177 P   T       S  CGCGCCGAGGAGGTAAATATAAGGGTGATATGATTY
76177 P   C       S  ATGACGTGGCAGACGGGTAAATATAAGGGTGATATGAY
76177 T   T       S  AACAAATCATATCACCCTTATATTTACCTAGCCTCCCTGCATGACCTCTTGTATTTTCATTCCTTC
76177 T   C       S  AACAAATCATATCACCCTTATATTTACCCAGCCTCCCTGCATGACCTCTTGTATTTTCATTCCTTC
                    AGGGCTCTTTGCACGGGCCCTGAGCCACGCTTAACAAATCATATCACCCTTATATTTACC[TC]AGCCTCCCTGCATGA
76177 IS  [TC]      CCTCTTGTATTTTCATTCCTTCACCTAACAAATGCTGTATTGAGT
76244 I           A  GCAGAGTCCACAGAAGTATGCATATGAATGAATCAGGATACTGACTT
76244 P   G       A  ATGACGTGGCAGACGGTTTCTAACCAACACTTTTCY
76244 P   A       A  CGCGCCGAGGAGTTTCTAACCAACACTTTTCY

76244 T   G       A  TAAGGAAAAGTGTTGGTTAGAAACCAGTCAGTATCCTGATTCATTCATATGCATACTTCTGTGGACTCTGCTG

76244 T   A       A  TAAGGAAAAGTGTTGGTTAGAAACTAGTCAGTATCCTGATTCATTCATATGCATACTTCTGTGGACTCTGCTG
                    AGGATTACTTTCCAGCAGAGTCCACAGAAGTATGCATATGAATGAATCAGGATACTGACT[GA]GTTTCTAACCAACACT
76244 IS  [GA]      TTTCCTTAGTACTGTTTAGTCTGTCTCCAACAATTTGTTGACCA
76310 I           A  GCTGAGGGCTCTGCCCCACTTACATTCTTTC
76310 P   T       A  CGCGCCGAGGTCCTCTTCTATATGATGCATTAAAY
76310 P   A       A  ATGACGTGGCAGACACCTCTTCTATATGATGCATTAAAY
76310 T   T       A  ATATTTTAATGCATCATATAGAAGAGGAAAAGAATGTAAGTGGGGCAGAGCCCTCAGCAT
76310 T   A       A  ATATTTTAATGCATCATATAGAAGAGGTAAAGAATGTAAGTGGGGCAGAGCCCTCAGCAT
                    TGTCCCAACATGCTGTGCTATTTGTAACATGCTGAGGGCTCTGCCCCACTTACATTCTTT[TA]CCTCTTCTATATGATG
76310 IS  [TA]      CATTAAAATATTTTGTGATCCATAACGAGTCTGATTTGTTAAAT
76341 I           S  AGAAAGGAAGAGATGTGGACACAAAGCAAATTTCGA
76341 P   A       S  CGCGCCGAGGTTGAGGTCTCTGGTTCTTY
76341 P   G       S  ATGACGTGGCAGACCTGAGGTCTCTGGTTCTTY
76341 T   A       S  AAAGAAGAACCAGAGACCTCAACGAAATTTGCTTTGTGTCCACATCTCTTCCTTTCTAC
76341 T   G       S  AAAGAAGAACCAGAGACCTCAGCGAAATTTGCTTTGTGTCCACATCTCTTCCTTTCTAC
                    TTTTATTTTCACTGGAACAAAATTTGGTTTTTGTTTTATAAAGAAGAACCAGAGACCTCA[AG]CGAAATTTGCTTTGTGT
76341 IS  [AG]      CCACATCTCTTCCTTTCTACAGATGTTAAAACATGGCCGTGCT
76419 I           S  GCAACCATCGTTTACTCTTTTATATAAACACGAATCTGTTTTTGGCCTGATAATC
76419 P   A       S  CGCGCCGAGGTACAGCTGGGTAGATCTAGY
76419 P   T       S  ATGACGTGGCAGACAACAGCTGGGTAGATCTAGY

76419 T   A       S  ATTACTAGATCTACCCAGCTGTAATTATCAGGCCAAAAACAGATTCGTGTTTATATAAAAGAGTAAACGATGGTTGCAA

76419 T   T       S  ATTACTAGATCTACCCAGCTGTTATTATCAGGCCAAAAACAGATTCGTGTTTATATAAAAGAGTAAACGATGGTTGCAA
                    AAGTAAACATACTCGCCTGGATCTGAATCATTCATTTAATTACTAGATCTACCCAGCTGT[AT]ATTATCAGGCCAAAAAC
76419 IS  [AT]      AGATTCGTGTTTATATAAAAGAGTAAACGATGGTTGCAAATTT
76449 I           S  CAGGGTCATCATACATTTATCAACTTTCTTTCCAGGGCTCAT
76449 P   T       S  CGCGCCGAGGAGATGTCTTCCGCCAGY
76449 P   C       S  ATGACGTGGCAGACGGATGTCTTCCGCCAY
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FIGURE 129D

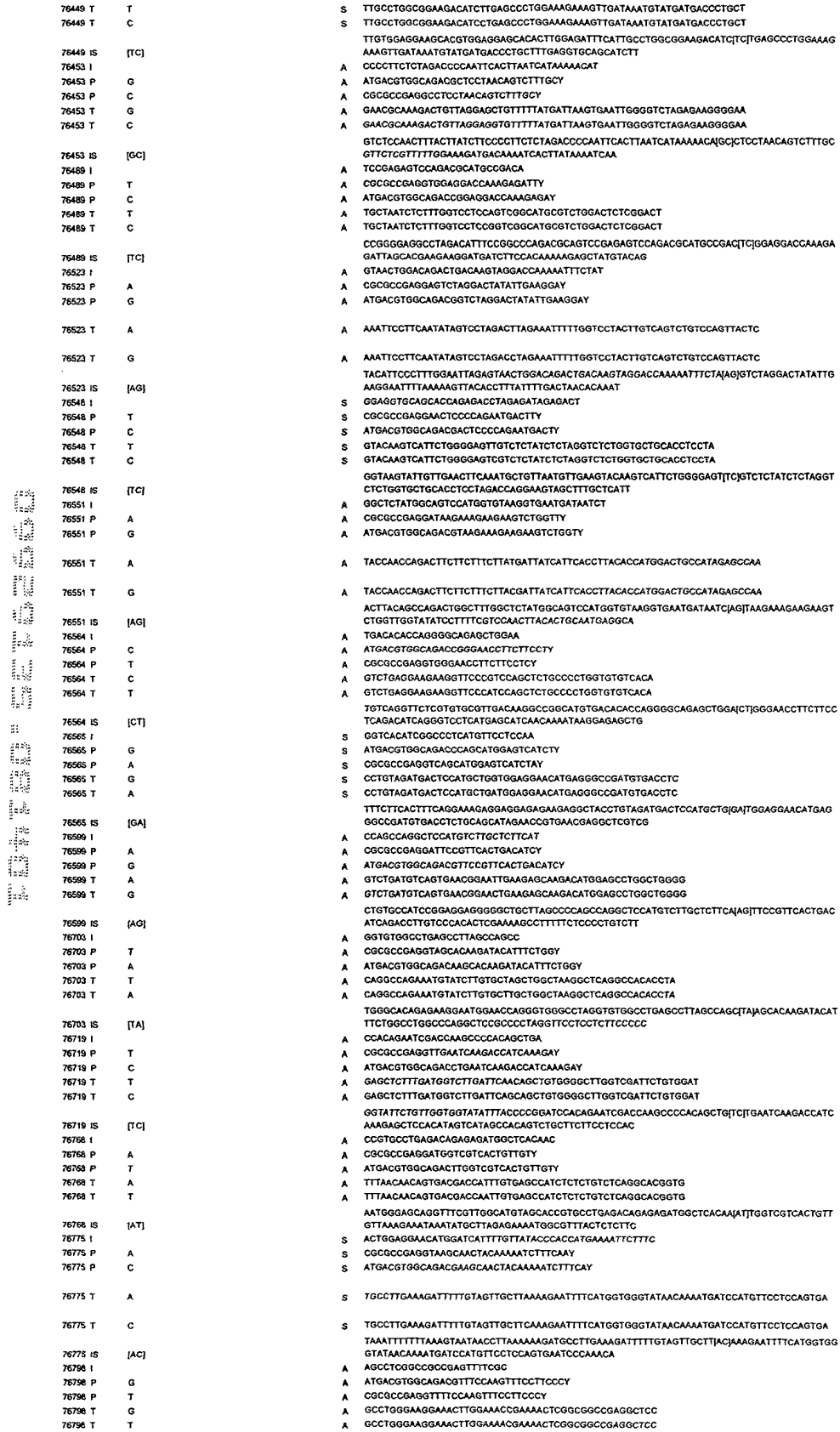

76449 T T S TTGCCTGGCGGAAGACATCTTGAGCCCTGGAAAGAAAGTTGATAAATGTATGATGACCCTGCT
76449 T C S TTGCCTGGCGGAAGACATCCTGAGCCCTGGAAAGAAAGTTGATAAATGTATGATGACCCTGCT
76449 IS [TC] TTGTGGAGGAAGCACGTGGAGGAGCACACTTGGAGATTTCATTGCCTGGCGGAAGACATC[TC]TGAGCCCTGGAAAG AAAGTTGATAAATGTATGATGACCCTGCTTTGAGGTGCAGCATCTT
76453 I A CCCCTTCTCTAGACCCCAATTCACTTAATCATAAAAACAT
76453 P G A ATGACGTGGCAGACGCTCCTAACAGTCTTTGCY
76453 P C A CGCGCCGAGGCCTCCTAACAGTCTTTGCY
76453 T G A GAACGCAAAGACTGTTAGGAGCTGTTTTTATGATTAAGTGAATTGGGGTCTAGAGAAGGGGAA
76453 T C A GAACGCAAAGACTGTTAGGAGGTGTTTTTATGATTAAGTGAATTGGGGTCTAGAGAAGGGGAA
76453 IS [GC] GTCTCCAACTTTACTTATCTTCCCCTTCTCTAGACCCCAATTCACTTAATCATAAAAACA[GC]CTCCTAACAGTCTTTGC GTTCTCGTTTTTGGAAAGATGACAAAATCACTTATAAAATCAA
76489 I A TCCGAGAGTCCAGACGCATGCCGACA
76489 P T A CGCGCCGAGGTGGAGGACCAAAGAGATTY
76489 P C A ATGACGTGGCAGACCGGAGGACCAAAGAGAY
76489 T T A TGCTAATCTCTTTGGTCCTCCAGTCGGCATGCGTCTGGACTCTCGGACT
76489 T C A TGCTAATCTCTTTGGTCCTCCGGTCGGCATGCGTCTGGACTCTCGGACT
76489 IS [TC] CCGGGGAGGCCTAGACATTTCCGGCCCAGACGCAGTCCGAGAGTCCAGACGCATGCCGAC[TC]GGAGGACCAAAGA GATTAGCACGAAGAAGGATGATCTTCCACAAAAAGAGCTATGTACAG
76523 I A GTAACTGGACAGACTGACAAGTAGGACCAAAAATTTCTAT
76523 P A A CGCGCCGAGGAGTCTAGGACTATATTGAAGGAY
76523 P G A ATGACGTGGCAGACGGTCTAGGACTATATTGAAGGAY
76523 T A A AAATTCCTTCAATATAGTCCTAGACTTAGAAATTTTTGGTCCTACTTGTCAGTCTGTCCAGTTACTC
76523 T G A AAATTCCTTCAATATAGTCCTAGACCTAGAAATTTTTGGTCCTACTTGTCAGTCTGTCCAGTTACTC
76523 IS [AG] TACATTCCCTTTGGAATTAGAGTAACTGGACAGACTGACAAGTAGGACCAAAAATTTCTA[AG]GTCTAGGACTATATTG AAGGAATTTTAAAAAGTTACACCTTTATTTTGACTAACACAAAT
76548 I S GGAGGTGCAGCACCAGAGACCTAGAGATAGAGACT
76548 P T S CGCGCCGAGGAACTCCCCAGAATGACTTY
76548 P C S ATGACGTGGCAGACGACTCCCCAGAATGACTY
76548 T T S GTACAAGTCATTCTGGGGAGTTGTCTCTATCTCTAGGTCTCTGGTGCTGCACCTCCTA
76548 T C S GTACAAGTCATTCTGGGGAGTCGTCTCTATCTCTAGGTCTCTGGTGCTGCACCTCCTA
76548 IS [TC] GGTAAGTATTGTTGAACTTCAAATGCTGTTAATGTTGAAGTACAAGTCATTCTGGGGAGT[TC]GTCTCTATCTCTAGGT CTCTGGTGCTGCACCTCCTAGACCAGGAAGTAGCTTTGCTCATT
76551 I A GGCTCTATGGCAGTCCATGGTGTAAGGTGAATGATAATCT
76551 P A A CGCGCCGAGGATAAGAAAGAAGAAGTCTGGTTY
76551 P G A ATGACGTGGCAGACGTAAGAAAGAAGAAGTCTGGTY
76551 T A A TACCAACCAGACTTCTTCTTTCTTATGATTATCATTCACCTTACACCATGGACTGCCATAGAGCCAA
76551 T G A TACCAACCAGACTTCTTCTTTCTTACGATTATCATTCACCTTACACCATGGACTGCCATAGAGCCAA
76551 IS [AG] ACTTACAGCCAGACTGGCTTTGGCTCTATGGCAGTCCATGGTGTAAGGTGAATGATAATC[AG]TAAGAAAGAAGAAGT CTGGTTGGTATATCCTTTTCGTCCAACTTACACTGCAATGAGGCA
76564 I A TGACACACCAGGGGCAGAGCTGGAA
76564 P C A ATGACGTGGCAGACCGGGAACCTTCTTCCTY
76564 P T A CGCGCCGAGGTGGGAACCTTCTTCCTCY
76564 T C A GTCTGAGGAAGAAGGTTCCCGTCCAGCTCTGCCCCTGGTGTGTCACA
76564 T T A GTCTGAGGAAGAAGGTTCCCATCCAGCTCTGCCCCTGGTGTGTCACA
76564 IS [CT] TGTCAGGTTCTCGTGTGCGTTGACAAGGCCGGCATGTGACACACCAGGGGCAGAGCTGGA[CT]GGGAACCTTCTTCC TCAGACATCAGGGTCCTCATGAGCATCAACAAAATAAGGAGAGCTG
76565 I S GGTCACATCGGCCCTCATGTTCCTCCAA
76565 P G S ATGACGTGGCAGACCCAGCATGGAGTCATCTY
76565 P A S CGCGCCGAGGTCAGCATGGAGTCATCTAY
76565 T G S CCTGTAGATGACTCCATGCTGGTGGAGGAACATGAGGGCCGATGTGACCTC
76565 T A S CCTGTAGATGACTCCATGCTGATGGAGGAACATGAGGGCCGATGTGACCTC
76565 IS [GA] TTTCTTCACTTTCAGGAAAGAGGAGGAGAGAAGAGGCTACCTGTAGATGACTCCATGCTG[GA]TGGAGGAACATGAG GGCCGATGTGACCTCTGCAGCATAGAACCGTGAACGAGGCTCGTCG
76599 I A CCAGCCAGGCTCCATGTCTTGCTCTTCAT
76599 P A A CGCGCCGAGGATTCCGTTCACTGACATCY
76599 P G A ATGACGTGGCAGACGTTCCGTTCACTGACATCY
76599 T A A GTCTGATGTCAGTGAACGGAATTGAAGAGCAAGACATGGAGCCTGGCTGGGG
76599 T G A GTCTGATGTCAGTGAACGGAACTGAAGAGCAAGACATGGAGCCTGGCTGGGG
76599 IS [AG] CTGTGCCATCCGGAGGAGGGGGCTGCTTAGCCCCAGCCAGGCTCCATGTCTTGCTCTTCA[AG]TTCCGTTCACTGAC ATCAGACCTTGTCCCACACTCGAAAAGCCTTTTTCTCCCCTGTCTT
76703 I A GGTGTGGCCTGAGCCTTAGCCAGCC
76703 P T A CGCGCCGAGGTAGCACAAGATACATTTCTGGY
76703 P A A ATGACGTGGCAGACAAGCACAAGATACATTTCTGGY
76703 T T A CAGGCCAGAAATGTATCTTGTGCTAGCTGGCTAAGGCTCAGGCCACACCTA
76703 T A A CAGGCCAGAAATGTATCTTGTGCTTGCTGGCTAAGGCTCAGGCCACACCTA
76703 IS [TA] TGGGCACAGAGAAGGAATGGAACCAGGGTGGGCCTAGGTGTGGCCTGAGCCTTAGCCAGC[TA]AGCACAAGATACAT TTCTGGCCTGGCCCAGGCTCCGCCCCTAGGTTCCTCCTCTTCCCCC
76719 I A CCACAGAATCGACCAAGCCCCACAGCTGA
76719 P T A CGCGCCGAGGTTGAATCAAGACCATCAAAGAY
76719 P C A ATGACGTGGCAGACCTGAATCAAGACCATCAAAGAY
76719 T T A GAGCTCTTTGATGGTCTTGATTCAACAGCTGTGGGGCTTGGTCGATTCTGTGGAT
76719 T C A GAGCTCTTTGATGGTCTTGATTCAGCAGCTGTGGGGCTTGGTCGATTCTGTGGAT
76719 IS [TC] GGTATTCTGTTGGTGGTATATTTACCCCGGATCCACAGAATCGACCAAGCCCCACAGCTG[TC]TGAATCAAGACCATC AAAGAGCTCCACATAGTCATAGCCACAGTCTGCTTCTTCCTCCAC
76768 I A CCGTGCCTGAGACAGAGAGATGGCTCACAAC
76768 P A A CGCGCCGAGGATGGTCGTCACTGTTGTY
76768 P T A ATGACGTGGCAGACTTGGTCGTCACTGTTGTY
76768 T A A TTTAACAACAGTGACGACCATTTGTGAGCCATCTCTCTGTCTCAGGCACGGTG
76768 T T A TTTAACAACAGTGACGACCAATTGTGAGCCATCTCTCTGTCTCAGGCACGGTG
76768 IS [AT] AATGGGAGCAGGTTTCGTTGGCATGTAGCACCGTGCCTGAGACAGAGAGATGGCTCACAA[AT]TGGTCGTCACTGTT GTTAAAGAAATAAATATGCTTAGAGAAAATGGCGTTTACTCTCTTC
76775 I S ACTGGAGGAACATGGATCATTTTGTTATACCCACCATGAAAATTCTTTC
76775 P A S CGCGCCGAGGTAAGCAACTACAAAAATCTTTCAAY
76775 P C S ATGACGTGGCAGACGAAGCAACTACAAAAATCTTTCAY
76775 T A S TGCCTTGAAAGATTTTTGTAGTTGCTTAAAAGAATTTTCATGGTGGGTATAACAAAATGATCCATGTTCCTCCAGTGA
76775 T C S TGCCTTGAAAGATTTTTGTAGTTGCTTCAAAGAATTTTCATGGTGGGTATAACAAAATGATCCATGTTCCTCCAGTGA
76775 IS [AC] TAAATTTTTTTAAAGTAATAACCTTAAAAAAGATGCCTTGAAAGATTTTTGTAGTTGCTT[AC]AAAGAATTTTCATGGTGG GTATAACAAAATGATCCATGTTCCTCCAGTGAATCCCAAACA
76798 I A AGCCTCGGCCGCCGAGTTTTCGC
76798 P G A ATGACGTGGCAGACGTTTCCAAGTTTCCTTCCCY
76798 P T A CGCGCCGAGGTTTTCCAAGTTTCCTTCCCY
76798 T G A GCCTGGGAAGGAAACTTGGAAACCGAAAACTCGGCGGCCGAGGCTCC
76798 T T A GCCTGGGAAGGAAACTTGGAAAACGAAAACTCGGCGGCCGAGGCTCC

FIGURE 129D

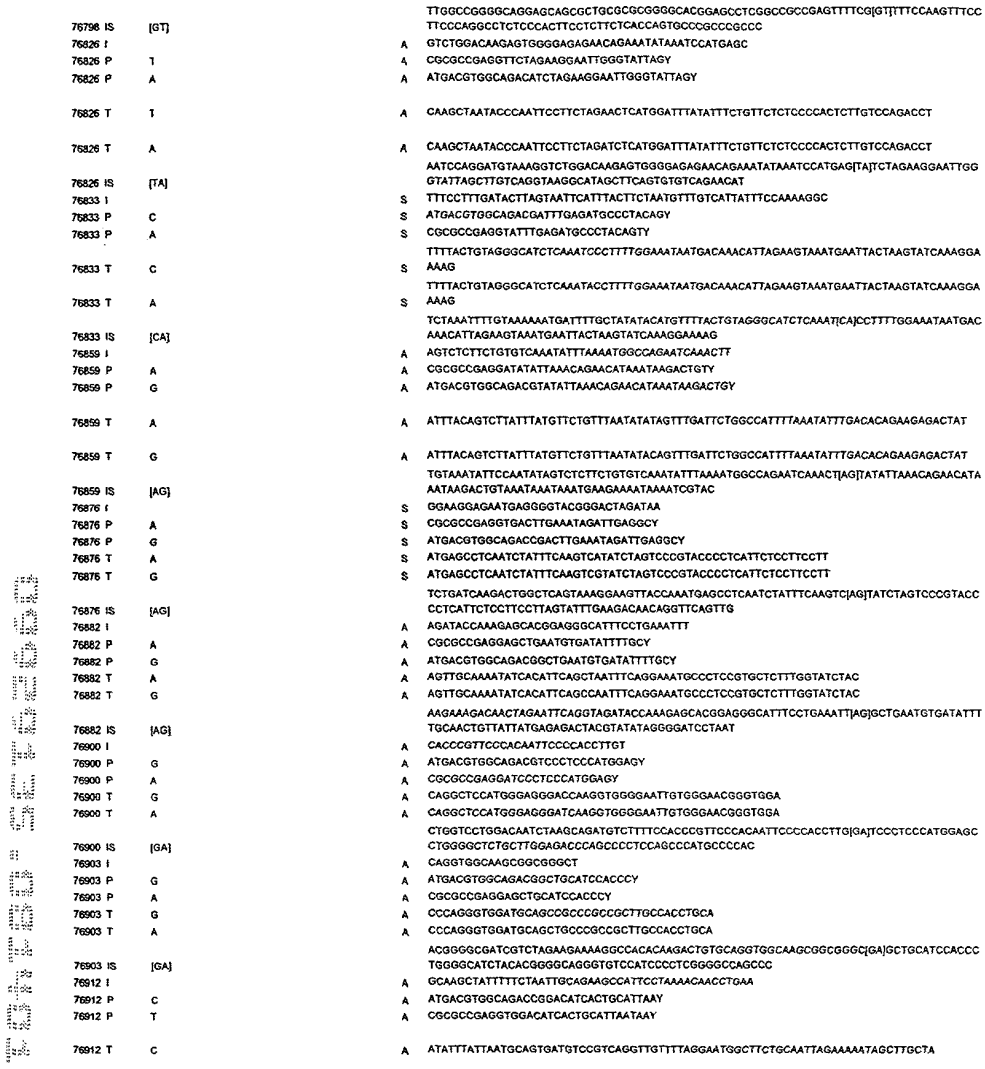

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76798 IS [GT] TTCCCAGGCCTCTCCCACTTCCTCTTCTCACCAGTGCCCGCCCGCCC
76826 I A GTCTGGACAAGAGTGGGGAGAGAACAGAAATATAAATCCATGAGC
76826 P T A CGCGCCGAGGTTCTAGAAGGAATTGGGTATTAGY
76826 P A A ATGACGTGGCAGACATCTAGAAGGAATTGGGTATTAGY
76826 T T A CAAGCTAATACCCAATTCCTTCTAGAACTCATGGATTTATATTTCTGTTCTCTCCCCACTCTTGTCCAGACCT
76826 T A A CAAGCTAATACCCAATTCCTTCTAGATCTCATGGATTTATATTTCTGTTCTCTCCCCACTCTTGTCCAGACCT
76826 IS [TA] AATCCAGGATGTAAAGGTCTGGACAAGAGTGGGGAGAGAACAGAAATATAAATCCATGAG[TA]TCTAGAAGGAATTGG GTATTAGCTTGTCAGGTAAGGCATAGCTTCAGTGTGTCAGAACAT
76833 I S TTTCCTTTGATACTTAGTAATTCATTTACTTCTAATGTTTGTCATTATTTCCAAAAGGC
76833 P C S ATGACGTGGCAGACGATTTGAGATGCCCTACAGY
76833 P A S CGCGCCGAGGTATTTGAGATGCCCTACAGTY
76833 T C S TTTTACTGTAGGGCATCTCAAATCCCTTTTGGAAATAATGACAAACATTAGAAGTAAATGAATTACTAAGTATCAAAGGA AAAG
76833 T A S TTTTACTGTAGGGCATCTCAAATACCTTTTGGAAATAATGACAAACATTAGAAGTAAATGAATTACTAAGTATCAAAGGA AAAG
76833 IS [CA] TCTAAATTTTGTAAAAAATGATTTTGCTATATACATGTTTTACTGTAGGGCATCTCAAAT[CA]CCTTTTGGAAATAATGAC AAACATTAGAAGTAAATGAATTACTAAGTATCAAAGGAAAAG
76859 I A AGTCTCTTCTGTGTCAAATATTTAAAATGGCCAGAATCAAACTT
76859 P A A CGCGCCGAGGATATATTAAACAGAACATAAATAAGACTGTY
76859 P G A ATGACGTGGCAGACGTATATTAAACAGAACATAAATAAGACTGY
76859 T A A ATTTACAGTCTTATTTATGTTCTGTTTAATATATAGTTTGATTCTGGCCATTTTAAATATTTGACACAGAAGAGACTAT
76859 T G A ATTTACAGTCTTATTTATGTTCTGTTTAATATACAGTTTGATTCTGGCCATTTTAAATATTTGACACAGAAGAGACTAT
76859 IS [AG] TGTAAATATTCCAATATAGTCTCTTCTGTGTCAAATATTTAAAATGGCCAGAATCAAACT[AG]TATATTAAACAGAACATA AATAAGACTGTAAATAAATAAATGAAGAAAATAAAATCGTAC
76876 I S GGAAGGAGAATGAGGGGTACGGGACTAGATAA
76876 P A S CGCGCCGAGGTGACTTGAAATAGATTGAGGCY
76876 P G S ATGACGTGGCAGACCGACTTGAAATAGATTGAGGCY
76876 T A S ATGAGCCTCAATCTATTTCAAGTCATATCTAGTCCCGTACCCCTCATTCTCCTTCCTT
76876 T G S ATGAGCCTCAATCTATTTCAAGTCGTATCTAGTCCCGTACCCCTCATTCTCCTTCCTT
76876 IS [AG] TCTGATCAAGACTGGCTCAGTAAAGGAAGTTACCAAATGAGCCTCAATCTATTTCAAGTC[AG]TATCTAGTCCCGTACC CCTCATTCTCCTTCCTTAGTATTTGAAGACAACAGGTTCAGTTG
76882 I A AGATACCAAAGAGCACGGAGGGCATTTCCTGAAATTT
76882 P A A CGCGCCGAGGAGCTGAATGTGATATTTTGCY
76882 P G A ATGACGTGGCAGACGGCTGAATGTGATATTTTGCY
76882 T A A AGTTGCAAAATATCACATTCAGCTAATTTCAGGAAATGCCCTCCGTGCTCTTTGGTATCTAC
76882 T G A AGTTGCAAAATATCACATTCAGCCAATTTCAGGAAATGCCCTCCGTGCTCTTTGGTATCTAC
76882 IS [AG] AAGAAAGACAACTAGAATTCAGGTAGATACCAAAGAGCACGGAGGGCATTTCCTGAAATT[AG]GCTGAATGTGATATTT TGCAACTGTTATTATGAGAGACTACGTATATAGGGGATCCTAAT
76900 I A CACCCGTTCCCACAATTCCCCACCTTGT
76900 P G A ATGACGTGGCAGACGTCCCTCCCATGGAGY
76900 P A A CGCGCCGAGGATCCCTCCCATGGAGY
76900 T G A CAGGCTCCATGGGAGGGACCAAGGTGGGGAATTGTGGGAACGGGTGGA
76900 T A A CAGGCTCCATGGGAGGGATCAAGGTGGGGAATTGTGGGAACGGGTGGA
76900 IS [GA] CTGGTCCTGGACAATCTAAGCAGATGTCTTTTCCACCCGTTCCCACAATTCCCCACCTTG[GA]TCCGTCCCATGGAGC CTGGGGCTCTGCTTGGAGACCCAGCCCCTCCAGCCCATGCCCCAC
76903 I A CAGGTGGCAAGCGGCGGGCT
76903 P G A ATGACGTGGCAGACGGCTGCATCCACCCY
76903 P A A CGCGCCGAGGAGCTGCATCCACCCY
76903 T G A CCCAGGGTGGATGCAGCCGCCCGCCGCTTGCCACCTGCA
76903 T A A CCCAGGGTGGATGCAGCTGCCCGCCGCTTGCCACCTGCA
76903 IS [GA] ACGGGGCGATCGTCTAGAAGAAAAGGCCACACAAGACTGTGCAGGTGGCAAGCGGCGGGC[GA]GCTGCATCCACCC TGGGGCATCTACACGGGGCAGGGTGTCCATCCCCTCGGGGCCAGCCC
76912 I A GCAAGCTATTTTTCTAATTGCAGAAGCCATTCCTAAAACAACCTGAA
76912 P C A ATGACGTGGCAGACCGGACATCACTGCATTAAY
76912 P T A CGCGCCGAGGTGGACATCACTGCATTAATAAY
76912 T C A ATATTTATTAATGCAGTGATGTCCGTCAGGTTGTTTTAGGAATGGCTTCTGCAATTAGAAAAATAGCTTGCTA
76912 T T A ATATTTATTAATGCAGTGATGTCCATCAGGTTGTTTTAGGAATGGCTTCTGCAATTAGAAAAATAGCTTGCTA
76912 IS [CT] ACATTTACATTCTAGCAAGCTATTTTTCTAATTGCAGAAGCCATTCCTAAAACAACCTGA[CT]GGACATCACTGCATTAA TAAATATTTTTATTTATACACAGTAAAGTTGTGTATATAAAG
76921 I S CCAAGTTCCCGCTCACCCGATAAATGCCT
76921 P T S CGCGCCGAGGATCCACATCTAGACCTGGY
76921 P C S ATGACGTGGCAGACGTCCACATCTAGACCTGGY
76921 T T S TCTCCCAGGTCTAGATGTGGATGGCATTTATCGGGTGAGCGGGAACTTGGCA
76921 T C S TCTCCCAGGTCTAGATGTGGACGGCATTTATCGGGTGAGCGGGAACTTGGCA
76921 IS [TC] CACACTTTCAAGCAGCAGTCCTTATCTACTCCTTCCTCATCTCCCAGGTCTAGATGTGGA[TC]GGCATTTATCGGGTGA GCGGGAACTTGGCAGTGGTCCAGAAGCTTCGCTTTCTGGTGGAC
76930 I A GCGTCCGCCCTGCCCTCCCA
76930 P C A ATGACGTGGCAGACCTTTCCATGCATTTGGCY
76930 P T A CGCGCCGAGGTTTTCCATGCATTTGGCTY
76930 T C A GAAGAGCCAAATGCATGGAAAGGGGAGGGCAGGGCGGACGCAA
76930 T T A GAAGAGCCAAATGCATGGAAAAGGGAGGGCAGGGCGGACGCAA
76930 IS [CT] ACGTTCTGGATGATTTACAAGCACAGCCTGCTTTCCCTGTTGCGTCCGCCCTGCCCTCCC[CT]TTTCCATGCATTTGG CTCTTCCTGCTGCCCCCCACCAGGGGTCCACAGAGACACAGAGAT
76973 I S ACCCTGTCCCCTGTGGTTTTATGAAGACGTTAGTTATGAATCA
76973 P G S ATGACGTGGCAGACCGTGTTTAGGATGAGAAGATY
76973 P A S CGCGCCGAGGTGTGTTTAGGATGAGAAGATGY
76973 T G S TTTACATCTTCTCATCCTAAACACGGATTCATAACTAACGTCTTCATAAAACCACAGGGGACAGGGTGA
76973 T A S TTTACATCTTCTCATCCTAAACACAGATTCATAACTAACGTCTTCATAAAACCACAGGGGACAGGGTGA
76973 IS [GA] AGACTCTTGCTAGCTTCTCACTTATCCTCCTCACTGTTTACATCTTCTCATCCTAAACAC[GA]GATTCATAACTAACGTC TTCATAAAACCACAGGGGACAGGGTGACAGAGACAAAAACTCC
76980 I A TCGAGCAATATCTGACGCATTCTGAATAACCAAGCCATCT
76980 P G A ATGACGTGGCAGACGTAGGCCTTCATCCCCY
76980 P A A CGCGCCGAGGATAGGCCTTCATCCCCY
76980 T G A ATATGGGGATGAAGGCCTACGATGGCTTGGTTATTCAGAATGCGTCAGATATTGCTCGAGA
76980 T A A ATATGGGGATGAAGGCCTATGATGGCTTGGTTATTCAGAATGCGTCAGATATTGCTCGAGA
76980 IS [GA] ATTTCTCAAGCGATCATTCTCTCGAGCAATATCTGACGCATTCTGAATAACCAAGCCATC[GA]TAGGCCTTCATCCCCA TATCCTCAATGTACTGGAGAAATGTGTCCAAAGGGTCTTCCTCA
76989 I S GGAAGATTCCACTGCAATTAGGGCCCCCATT
76989 P C S ATGACGTGGCAGACGGCTTCTGAACCAGCY
76989 P T S CGCGCCGAGGAGCTTCTGAACCAGCAY

FIGURE 129D

76989	T	C	S	AGACTGCTGGTTCAGAAGCCATGGGGGCCCTAATTGCAGTGGAATCTTCCAG
76989	T	T	S	AGACTGCTGGTTCAGAAGCTATGGGGGCCCTAATTGCAGTGGAATCTTCCAG
76989	IS	[CT]		GATCTGGAATTCAATTACCACACAAAAATACACAAGCCAGGAGACTGCTGGTTCAGAAGC[CT]ATGGGGGCCCTAATT GCAGTGGAATCTTCCAGGTTAGAAAAACTGACACTGTTCCATCAG
77002	I		A	CTGTACACAGGAACTGCTTCCTTCCAGTCTAGCAT
77002	P	A	A	CGCGCCGAGGAGAAGGTATGAGAAGAGTCATY
77002	P	G	A	ATGACGTGGCAGACGGAAGGTATGAGAAGAGTCAY
77002	T	A	A	CAGCATGACTCTTCTCATACCTTCTTGCTAGACTGGAAGGAAGCAGTTCCTGTGTACAGTA
77002	T	G	A	CAGCATGACTCTTCTCATACCTTCCTGCTAGACTGGAAGGAAGCAGTTCCTGTGTACAGTA
77002	IS	[AG]		TCGGTCGGGCACTGTGGTAACACTTACTGTACACAGGAACTGCTTCCTTCCAGTCTAGCA[AG]GAAGGTATGAGAAGA GTCATGCTGCTGCTTGTTCCCCTAAACCTTACAAAGTCATCATTG
77035	I		A	AGTTGCCTTGTCACTGGCGAAGTCAGATGCT
77035	P	A	A	CGCGCCGAGGAGCCAGTACCAGAGCY
77035	P	G	A	ATGACGTGGCAGACGGCCAGTACCAGAGCY
77035	T	A	A	CAGAGCTCTGGTACTGGCTGCATCTGACTTCGCCAGTGACAAGGCAACTCT
77035	T	G	A	CAGAGCTCTGGTACTGGCCGCATCTGACTTCGCCAGTGACAAGGCAACTCT
77035	IS	[AG]		TAACCCAGTTTATTGGCTCAGGGTGTAGAGAGTTGCCTTGTCACTGGCGAAGTCAGATGC[AG]GCCAGTACCAGAGC TCTGCACTAGCTGTGAACACTAAGGAAGAATAGCTGAGTGAGGAAG
77039	I		A	GTCACATGAGTGTTATTACAAGTATATTTAAATTATGTCAATTATGTTTCTGCCAT
77039	P	A	A	CGCGCCGAGGAATTTTAGCAATTGTTAGAGTGTAAY
77039	P	C	A	ATGACGTGGCAGACCATTTTAGCAATTGTTAGAGTGTY
77039	T	A	A	ATACTTACACTCTAACAATTGCTAAAATTTGGCAGAAACATAATTGACATAATTTAAATATACTTGTAATAACACTCATGT GACTA
77039	T	C	A	ATACTTACACTCTAACAATTGCTAAAATGTGGCAGAAACATAATTGACATAATTTAAATATACTTGTAATAACACTCATGT GACTA
77039	IS	[AC]		ATTTAGTCACATGAGTGTTATTACAAGTATATTTAAATTATGTCAATTATGTTTCTGCCA[AC]ATTTTAGCAATTGTTAGA GTGTAAGTATAATCAATATAAATATAGGAATGTGTGAAATAC
77063	I		S	ACCCCCATTGTCAGTCACCTCACATTAGAGATTGCT
77063	P	T	S	CGCGCCGAGGAGACCCATTCAGTTTAGGAY
77063	P	C	S	ATGACGTGGCAGACGGACCCATTCAGTTTAGGY
77063	T	T	S	AGTTTCCTAAACTGAATGGGTCTGCAATCTCTAATGTGAGGTGACTGACAATGGGGGTGG
77063	T	C	S	AGTTTCCTAAACTGAATGGGTCCGCAATCTCTAATGTGAGGTGACTGACAATGGGGGTGG
77063	IS	[TC]		GGACAACTGCAGACAGTGTGGTCATAGGTTCCCTCTGCAGTTTCCTAAACTGAATGGGTC[TC]GCAATCTCTAATGTG AGGTGACTGACAATGGGGGTGGAGCCAGTCATTTCCCACGGGGTT
77080	I		S	TCAACCTTTTTAAGACACCTTTATAGAGAACCCTAGAGAAAGAAATT
77080	P	T	S	CGCGCCGAGGAGGAGCTCATTAATTAGCCY
77080	P	C	S	ATGACGTGGCAGACGGGAGCTCATTAATTAGCCY
77080	T	T	S	TACTGGCTAATTAATGAGCTCCTATTTCTTTCTCTAGGGTTCTCTATAAAGGTGTCTTAAAAAGGTTGATT
77080	T	C	S	TACTGGCTAATTAATGAGCTCCCATTTCTTTCTCTAGGGTTCTCTATAAAGGTGTCTTAAAAAGGTTGATT
77080	IS	[TC]		CAATCTTGCAGTTTATTATGTAATCTGCAAATTGTAATTACTGGCTAATTAATGAGCTCC[TC]ATTTCTTTCTCTAGGGT TCTCTATAAAGGTGTCTTAAAAAGGTTGATTTTGTTATATGAG
77088	I		A	GCACTCCGCGGACACGCGCTA
77088	P	T	A	CGCGCCGAGGTGGCTCTCACATCCTGY
77088	P	C	A	ATGACGTGGCAGACCGGCTCTCACATCCTY
77088	T	T	A	TCTCCAGGATGTGAGAGCCAAGCGCGTGTCCGCGGAGTGCTT
77088	T	C	A	TCTCCAGGATGTGAGAGCCGAGCGCGTGTCCGCGGAGTGCTT
77088	IS	[TC]		TCTAAGGAACGCAGCACCGAAGCCATTCTGCGTTGCTCAAGCACTCCGCGGACACGCGCT[TC]GGCTCTCACATCCT GGAGATGTTCGTTATCCCGGGAAGATGTTTATCAGAAGAGAATTTC
77144	I		S	GTGCTCAGATCAGACAAGCCTTGTGAAAATACTGGAAGAA
77144	P	A	S	CGCGCCGAGGTGTTCCTCTCATACTGCAY
77144	P	G	S	ATGACGTGGCAGACCGTTCCTCTCATACTGCY
77144	T	A	S	TTTTTGCAGTATGAGAGGAACATCTTCCAGTATTTTCACAAGGCTTGTCTGATCTGAGCACTC
77144	T	G	S	TTTTTGCAGTATGAGAGGAACGTCTTCCAGTATTTTCACAAGGCTTGTCTGATCTGAGCACTC
77144	IS	[AG]		TGAGCTGTTCACCCTCTCAGGATCTTCTCTGGAGTTTCTTTTTTGCAGTATGAGAGGAAC[AG]TCTTCCAGTATTTTCA CAAGGCTTGTCTGATCTGAGCACTCACTTGAAAATACCTGCCCG
77218	I		S	TGCAGGCCACAAGTGGGGGCTGA
77218	P	G	S	ATGACGTGGCAGACCGGGACACTCACTCGY
77218	P	A	S	CGCGCCGAGGTGGGACACTCACTCGY
77218	T	G	S	CTGACGAGTGAGTGTCCCGCAGCCCCCACTTGTGGCCTGCAAT
77218	T	A	S	CTGACGAGTGAGTGTCCCACAGCCCCCACTTGTGGCCTGCAAT
77218	IS	[GA]		TGTGCCCGATCTCGGCAGGCAGCCGGCCCCTGGAATTCTCCCTGACGAGTGAGTGTCCC[GA]CAGCCCCCACTTGT GGCCTGCAATGGGGTTGGGGAGGCCCTGTCCTGAGGCTCCTCCCCT
77238	I		A	TCATGGTGCTTTTTGCCTGACAGAATTTCTTCTCAACTCTTT
77238	P	G	A	ATGACGTGGCAGACGAATTTCTTCTCAACTTCACTTCY
77238	P	A	A	CGCGCCGAGGAAATTTCTTCTCAACTTCACTTCY
77238	T	G	A	TCAGGAAGTGAAGTTGAGAAGAAATTCAAGAGTTGAGAAGAAATTCTGTCAGGCAAAAAGCACCATGACA
77238	T	A	A	TCAGGAAGTGAAGTTGAGAAGAAATTTAAGAGTTGAGAAGAAATTCTGTCAGGCAAAAAGCACCATGACA
77238	IS	[GA]		TTTCTGCTTGATTTCCATGTCATGGTGCTTTTTGCCTGACAGAATTTCTTCTCAACTCTT[GA]AATTTCTTCTCAACTTC ACTTCCTGAGAGAGATTTTTGCAAAGCTGCCAAGATGTGCAGT
77258	I		A	GCAAAATAGGCTGTAATGACCTTGTCTGCCTAAACTCTGCT
77258	P	C	A	ATGACGTGGCAGACCAGTCTAACAAGGCTTAATTAATGY
77258	P	A	A	CGCGCCGAGGAAGTCTAACAAGGCTTAATTAATGY
77258	T	C	A	GTTTCATTAATTAAGCCTTGTTAGACTGGCAGAGTTTAGGCAGACAAGGTCATTACAGCCTATTTTGCCT
77258	T	A	A	GTTTCATTAATTAAGCCTTGTTAGACTTGCAGAGTTTAGGCAGACAAGGTCATTACAGCCTATTTTGCCT
77258	IS	[CA]		TTTTCTTTATATAGAAGGAGGCAAAATAGGCTGTAATGACCTTGTCTGCCTAAACTCTGC[CA]AGTCTAACAAGGCTTA ATTAATGAAACCACATTCACTAGTGCTAGATTTGATACAAATCA
77346	I		S	CCTGATGCCAATTATTCATGAATAAACAGCCAAATTTTAGCCTCTGAAATTT
77346	P	C	S	ATGACGTGGCAGACGCAAAGATGATTAACAGCCY
77346	P	T	S	CGCGCCGAGGACAAAGATGATTAACAGCCTY
77346	T	C	S	CCAAAGGCTGTTAATCATCTTTGCAATTTCAGAGGCTAAAATTTGGCTGTTTATTCATGAATAATTGGCATCAGGTG
77346	T	T	S	CCAAAGGCTGTTAATCATCTTTGTAATTTCAGAGGCTAAAATTTGGCTGTTTATTCATGAATAATTGGCATCAGGTG
77346	IS	[CT]		CTCCTAAGGTAGAAAGTCCCAGTGGTCACAATTAAGTCCAAAGGCTGTTAATCATCTTTG[CT]AATTTCAGAGGCTAAA ATTTGGCTGTTTATTCATGAATAATTGGCATCAGGTGAATTAAT
77358	I		S	GGGCCTGGGGTGGGAGCTGTT
77358	P	G	S	CGCGCCGAGGCCCAGCACAAGCAACY
77358	P	C	S	ATGACGTGGCAGACGCCAGCACAAGCAAY
77358	T	G	S	AGTTGTTGCTTGTGCTGGGACAGCTCCCACCCCAGGCCCAG
77358	T	C	S	AGTTGTTGCTTGTGCTGGCACAGCTCCCACCCCAGGCCCAG
77358	IS	[GC]		TGGCAGAAATCATCGACGATTGTGTGGTGAGTGAAGCTGCTAAGTTGTTGCTTGTGCTGG[GC]ACAGCTCCCACCCC AGGCCCAGGTTAGTAAGTAGCTGGTGTTTGGTTTGGCTTTGCTGCC
77380	I		A	GAGATAGAAGGCTCCCTCTCTATTATTTGAGCAAGAACAATGCTTTTCT

FIGURE 129D

77380	P	A	A	CGCGCCGAGGAAAGAGGGAATTTCTGCAAY
77380	P	G	A	ATGACGTGGCAGACGAAGAGGGAATTTCTGCAAY
77380	T	A	A	CTCATTGCAGAAATTCCCTCTTTGAAAAGCATTGTTCTTGCTCAAATAATAGAGAGGGAGCCTTCTATCTCAC
77380	T	G	A	CTCATTGCAGAAATTCCCTCTTCGAAAAGCATTGTTCTTGCTCAAATAATAGAGAGGGAGCCTTCTATCTCAC
77380	IS	[AG]		AGTGAGAGAAGTGAGATAGAAGGCTCCCTCTCTATTATTTGAGCAAGAACAATGCTTTTC[AG]AAGAGGGAATTTCTG CAATGAGTTCTTCTCTTACTTGTTCAGGGAAATGGTTGACCCCAT
77420	I		A	AGATGGAAAAGGAAAATGTAATTTCCTCAGCAGGGAGCAA
77420	P	C	A	ATGACGTGGCAGACCCCAATTAGAACTGGTTGAY
77420	P	T	A	CGCGCCGAGGTCCAATTAGAACTGGTTGAGY
77420	T	C	A	ACTACTCAACCAGTTCTAATTGGGTGCTCCCTGCTGAGGAAATTACATTTTCCTTTTCCATCTGC
77420	T	T	A	ACTACTCAACCAGTTCTAATTGGATGCTCCCTGCTGAGGAAATTACATTTTCCTTTTCCATCTGC
77420	IS	[CT]		TTTGATTCCCAACAGTTCTGCAGATGGAAAAGGAAAATGTAATTTCCTCAGCAGGGAGCA[CT]CCAATTAGAACTGGTT GAGTAGTTTATGGTTCTTTCTCTAAAACAGAAACTCAAATTGCA
77444	I		S	GGGCGTCATCGTGAGGGTGGGGC
77444	P	C	S	ATGACGTGGCAGACGTTGGAGCCTGTTGAGY
77444	P	A	S	CGCGCCGAGGTTTGGAGCCTGTTGAGAY
77444	T	C	S	CTGCTCTCAACAGGCTCCAACCCCCACCCTCACGATGACGCCCAG
77444	T	A	S	CTGCTCTCAACAGGCTCCAAACCCCACCCTCACGATGACGCCCAG
77444	IS	[CA]		TGGCATGGCTGGAGCCTGGGTATGCACAGTCAAGCCAGCCCTGCTCTCAACAGGCTCCAA[CA]CCCCACCCTCACGA TGACGCCCAGAAACCACACAGACGAGGAGCTGTTTCTTGACTGTTA
77478	I		S	GTTATTTTGCTGACACACCAATTCCTGCCTGGTTGTTATTT
77478	P	G	S	CGCGCCGAGGCTGAAGGTTTAAGCACTGGY
77478	P	C	S	ATGACGTGGCAGACGTGAAGGTTTAAGCACTGGY
77478	T	G	S	CAGACCAGTGCTTAAACCTTCAGAATAACAACCAGGCAGGAATTGGTGTGTCAGCAAAATAACCA
77478	T	C	S	CAGACCAGTGCTTAAACCTTCACAATAACAACCAGGCAGGAATTGGTGTGTCAGCAAAATAACCA
77478	IS	[GC]		TGGTTTCCAACCTTCACCTGCACAAAGAAGTCAAAACACAGACCAGTGCTTAAACCTTCA[GC]AATAACAACCAGGCAG GAATTGGTGTGTCAGCAAAATAACCAACTATGGTCAGAAGCAAG
77480	I		S	GACGATGCTGCACCTGGCCGTGATT
77480	P	G	S	ATGACGTGGCAGACCTTCCTCTTCTCCGCCY
77480	P	T	S	CGCGCCGAGGATTCCTCTTCTCCGCCY
77480	T	G	S	ACAGGGCGGAGAAGAGGAAGATCACGGCCAGGTGCAGCATCGTCAT
77480	T	T	S	ACAGGGCGGAGAAGAGGAATATCACGGCCAGGTGCAGCATCGTCAT
77480	IS	[GT]		CACACGGGCCCTGTGGCTGGAGCACTGAACCAGCGCCCTGGACAGGGCGGAGAAGAGGAA[GT]ATCACGGCCAGGT GCAGCATCGTCATGAAGAGGGGGAAATGGAAGCTCTGTATGGAGCCC
77519	I		A	GGTTGGGGGCGTGAAACTCGGCCA
77519	P	C	A	ATGACGTGGCAGACCTGCCTCCCTCGTCY
77519	P	T	A	CGCGCCGAGGTTGCCTCCCTCGTCY
77519	T	C	A	GCCAGACGAGGGAGGCAGGGCCGAGTTTCACGCCCCCAACCCT
77519	T	T	A	GCCAGACGAGGGAGGCAAGGCCGAGTTTCACGCCCCCAACCCT
77519	IS	[CT]		AAGATCTTCCGAGGAGTGGGCAGGGAGGGCTTTGGAGGGTTGGGGGCGTGAAACTCGGCC[CT]TGCCTCCCTCGTC TGGCGAGTGCGCAGCCCGGAAGTGCGCGGCCAGTGCATCGGGCGGTG
77531	I		S	CCTGCCTTTGGAGGTGCCTTTCCACCAAA
77531	P	A	S	CGCGCCGAGGTTGGTATCGCTCTGGTAAY
77531	P	G	S	ATGACGTGGCAGACCTGGTATCGCTCTGGTAY
77531	T	A	S	TCTTTTACCAGAGCGATACCAATTGGTGGAAAGGCACCTCCAAAGGCAGGAC
77531	T	G	S	TCTTTTACCAGAGCGATACCAGTTGGTGGAAAGGCACCTCCAAAGGCAGGAC
77531	IS	[AG]		TGAATGCAGTCTGGATTTCATACCACTTAATTTAACTCTTCTTTTACCAGAGCGATACCA[AG]TTGGTGGAAAGGCACC TCCAAAGGCAGGACTGGACTAATTCCAAGCAACTATGGTAAGTG
77536	I		S	AGACTGAGGCAAAGGTGCAAATAGACAGTGTGGATTTTC
77536	P	C	S	ATGACGTGGCAGACGCCTGCAGGGTTAGAY
77536	P	A	S	CGCGCCGAGGTCCTGCAGGGTTAGAATATY
77536	T	C	S	GTATATATTCTAACCCTGCAGGCAAAATCCACACTGTCTATTTGCACCTTTGCCTCAGTCTGT
77536	T	A	S	GTATATATTCTAACCCTGCAGGAAAAATCCACACTGTCTATTTGCACCTTTGCCTCAGTCTGT
77536	IS	[CA]		AAGTGAGTTGGCTACAAAATAAAACGTCTGAGAAGTAAGTATATATTCTAACCCTGCAGG[CA]AAAATCCACACTGTCT ATTTGCACCTTTGCCTCAGTCTGTCCTTCATCCTTTCCCTGGCT
77557	I		S	GGACCCAGAGGCACTTGTTATGCTTCCACACTAA
77557	P	G	S	ATGACGTGGCAGACCGAAATGAAATTCTTAATTGAGAGAY
77557	P	A	S	CGCGCCGAGGTGAAATGAAATTCTTAATTGAGAGAAY
77557	T	G	S	CCAGTTCTCTCAATTAAGAATTTCATTTCGTAGTGTGGAAGCATAACAAGTGCCTCTGGGTCCCC
77557	T	A	S	CCAGTTCTCTCAATTAAGAATTTCATTTCATAGTGTGGAAGCATAACAAGTGCCTCTGGGTCCCC
77557	IS	[GA]		GGCTTTTCTTTTTTTTTTTTTTTCCTGGTGTCCAGTTCTCTCAATTAAGAATTTCATTTC[GA]TAGTGTGGAAGCATAAC AAGTGCCTCTGGGTCCCCAGTCTTGGTGCTGTGAATGGGGTTA
77569	I		A	GGAGGAGTCTCAGCTTCACATTCTTGTTTTTCTCTAAAGTTGATTTGAGAAATAA
77569	P	C	A	ATGACGTGGCAGACCGATGTGTCTTTGCCGY
77569	P	T	A	CGCGCCGAGGTGATGTGTCTTTGCCGY
77569	T	C	A	AGTCCGGCAAAGACACATCGTATTTCTCAAATCAACTTTAGAGAAAAACAAGAATGTGAAGCTGAGACTCCTCCAG
77569	T	T	A	AGTCCGGCAAAGACACATCATATTTCTCAAATCAACTTTAGAGAAAAACAAGAATGTGAAGCTGAGACTCCTCCAG
77569	IS	[CT]		TTGACTGGAGGAGTCTCAGCTTCACATTCTTGTTTTTCTCTAAAGTTGATTTGAGAAATA[CT]GATGTGTCTTTGCCGG ACTTTCAAAGAGATATAAATCATAAATTAAAAACAACAACAAAA
77654	I		A	AGTGACTGCAACTTCACTTTGGAAAACAGTAGTCTGCAGC
77654	P	T	A	CGCGCCGAGGTGGGGAGACAAAGGGY
77654	P	A	A	ATGACGTGGCAGACAGGGGAGACAAAGGGY
77654	T	T	A	TTCTCCCTTTGTCTCCCCACTGCAGACTACTGTTTTCCAAAGTGAAGTTGCAGTCACTCT
77654	T	A	A	TTCTCCCTTTGTCTCCCCTCTGCAGACTACTGTTTTCCAAAGTGAAGTTGCAGTCACTCT
77654	IS	[TA]		GCTTCGTCCGGGCCTCGGCAGAGTGACTGCAACTTCACTTTGGAAAACAGTAGTCTGCAG[TA]GGGGAGACAAAGGG AGAAAACACCACGGCTCAAGCCACAGAGTCCCCATCCCAGCAAGAC
77662	I		S	GTGTTTCTTTGAGGCGCAGCTCCATGGTTTT
77662	P	T	S	CGCGCCGAGGATAGGACACATAGGCCTCY
77662	P	G	S	ATGACGTGGCAGACCTAGGACACATAGGCCTY
77662	T	T	S	GCCTGAGGCCTATGTGTCCTATAAACCATGGAGCTGCGCCTCAAAGAAACACCT
77662	T	G	S	GCCTGAGGCCTATGTGTCCTAGAAACCATGGAGCTGCGCCTCAAAGAAACACCT
77662	IS	[TG]		GCCCCGGCTGGAAAATGGGCACAACCTGGACCCTACGGTGCCTGAGGCCTATGTGTCCTA[TG]AAACCATGGAGCTG CGCCTCAAAGAAACACCTCCCGGTGTCCACCCATCAGACACCATGC
77677	I		A	GGTACATCTAGCCTGATGAGGCTGGCTCCAT
77677	P	G	A	ATGACGTGGCAGACGTCAGTTGTTCACAAACTGY
77677	P	A	A	CGCGCCGAGGATCAGTTGTTCACAAACTGTY
77677	T	G	A	AGGCACAGTTTGTGAACAACTGACTGGAGCCAGCCTCATCAGGCTAGATGTACCTA
77677	T	A	A	AGGCACAGTTTGTGAACAACTGATTGGAGCCAGCCTCATCAGGCTAGATGTACCTA
77677	IS	[GA]		ATGTTTTTGAGATCCATGCTGGTTGCTATAGGTACATCTAGCCTGATGAGGCTGGCTCCA[GA]TCAGTTGTTCACAAA CTGTGCCTTGTGAAACCTTAGTGGTTCCCCTTGTCACCTTGAAGA
77706	I		A	TGAACGAACTTCACAGTCTCATGATCGACGCCAA
77706	P	C	A	ATGACGTGGCAGACCGAAAGGAGGGAAGGTY
77706	P	T	A	CGCGCCGAGGTGAAAGGAGGGAAGGTGY
77706	T	C	A	TACACACCTTCCCTCCTTTCGTGGCGTCGATCATGAGACTGTGAAGTTCGTTCATG
77706	T	T	A	TACACACCTTCCCTCCTTTCATGGCGTCGATCATGAGACTGTGAAGTTCGTTCATG

Confidential Treatment Requested

FIGURE 129D

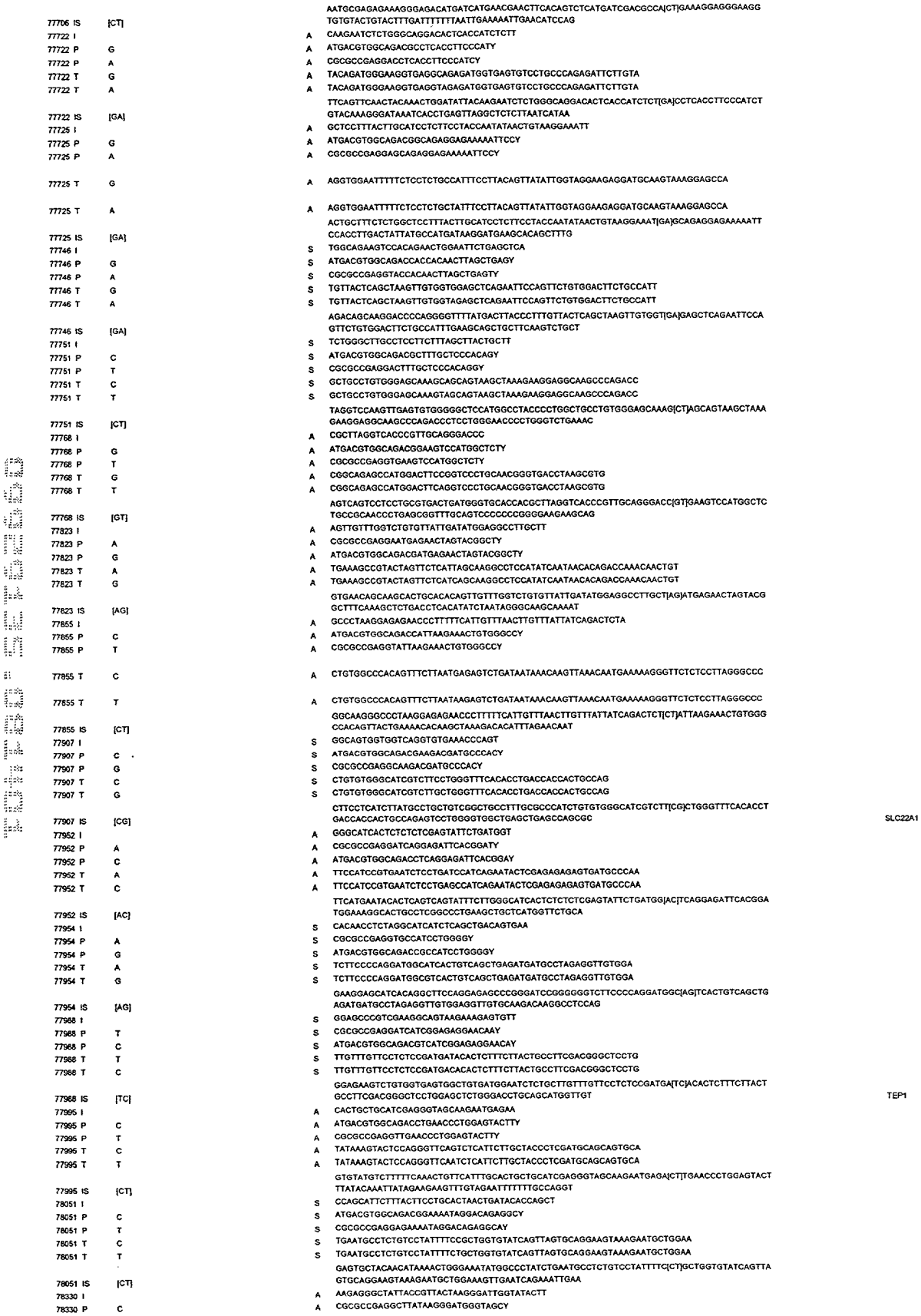

AATGCGAGAGAAAGGGAGACATGATCATGAACGAACTTCACAGTCTCATGATCGACGCCA[CT]GAAAGGAGGGAAGG
77706 IS [CT] TGTGTACTGTACTTTGATTTTTTTAATTGAAAAATTGAACATCCAG
77722 I A CAAGAATCTCTGGGCAGGACACTCACCATCTCTT
77722 P G A ATGACGTGGCAGACGCCTCACCTTCCCATY
77722 P A A CGCGCCGAGGACCTCACCTTCCCATCY
77722 T G A TACAGATGGGAAGGTGAGGCAGAGATGGTGAGTGTCCTGCCCAGAGATTCTTGTA
77722 T A A TACAGATGGGAAGGTGAGGTAGAGATGGTGAGTGTCCTGCCCAGAGATTCTTGTA
TTCAGTTCAACTACAAACTGGATATTACAAGAATCTCTGGGCAGGACACTCACCATCTCT[GA]CCTCACCTTCCCATCT
77722 IS [GA] GTACAAAGGGATAAATCACCTGAGTTAGGCTCTCTTAATCATAA
77725 I A GCTCCTTTACTTGCATCCTCTTCCTACCAATATAACTGTAAGGAAATT
77725 P G A ATGACGTGGCAGACGGCAGAGGAGAAAAATTCCY
77725 P A A CGCGCCGAGGAGCAGAGGAGAAAAATTCCY
77725 T G A AGGTGGAATTTTTCTCCTCTGCCATTTCCTTACAGTTATATTGGTAGGAAGAGGATGCAAGTAAAGGAGCCA
77725 T A A AGGTGGAATTTTTCTCCTCTGCTATTTCCTTACAGTTATATTGGTAGGAAGAGGATGCAAGTAAAGGAGCCA
ACTGCTTTCTCTGGCTCCTTTACTTGCATCCTCTTCCTACCAATATAACTGTAAGGAAAT[GA]GCAGAGGAGAAAAATT
77725 IS [GA] CCACCTTGACTATTATGCCATGATAAGGATGAAGCACAGCTTTG
77746 I S TGGCAGAAGTCCACAGAACTGGAATTCTGAGCTCA
77746 P G S ATGACGTGGCAGACCACCACAACTTAGCTGAGY
77746 P A S CGCGCCGAGGTACCACAACTTAGCTGAGTY
77746 T G S TGTTACTCAGCTAAGTTGTGGTGGAGCTCAGAATTCCAGTTCTGTGGACTTCTGCCATT
77746 T A S TGTTACTCAGCTAAGTTGTGGTAGAGCTCAGAATTCCAGTTCTGTGGACTTCTGCCATT
AGACAGCAAGGACCCCAGGGGTTTTATGACTTACCCTTTGTTACTCAGCTAAGTTGTGGT[GA]GAGCTCAGAATTCCA
77746 IS [GA] GTTCTGTGGACTTCTGCCATTTGAAGCAGCTGCTTCAAGTCTGCT
77751 I S TCTGGGCTTGCCTCCTTCTTTAGCTTACTGCTT
77751 P C S ATGACGTGGCAGACGCTTTGCTCCCACAGY
77751 P T S CGCGCCGAGGACTTTGCTCCCACAGGY
77751 T C S GCTGCCTGTGGGAGCAAAGCAGCAGTAAGCTAAAGAAGGAGGCAAGCCCAGACC
77751 T T S GCTGCCTGTGGGAGCAAAGTAGCAGTAAGCTAAAGAAGGAGGCAAGCCCAGACC
TAGGTCCAAGTTGAGTGTGGGGGCTCCATGGCCTACCCCTGGCTGCCTGTGGGAGCAAAG[CT]AGCAGTAAGCTAAA
77751 IS [CT] GAAGGAGGCAAGCCCAGACCCTCCTGGGAACCCCTGGGTCTGAAAC
77768 I A CGCTTAGGTCACCCGTTGCAGGGACCC
77768 P G A ATGACGTGGCAGACGGAAGTCCATGGCTCTY
77768 P T A CGCGCCGAGGTGAAGTCCATGGCTCTY
77768 T G A CGGCAGAGCCATGGACTTCCGGTCCCTGCAACGGGTGACCTAAGCGTG
77768 T T A CGGCAGAGCCATGGACTTCAGGTCCCTGCAACGGGTGACCTAAGCGTG
AGTCAGTCCTCCTGCGTGACTGATGGGTGCACCACGCTTAGGTCACCCGTTGCAGGGACC[GT]GAAGTCCATGGCTC
77768 IS [GT] TGCCGCAACCCTGAGCGGTTTGCAGTCCCCCCCGGGGAAGAAGCAG
77823 I A AGTTGTTTGGTCTGTGTTATTGATATGGAGGCCTTGCTT
77823 P A A CGCGCCGAGGAATGAGAACTAGTACGGCTY
77823 P G A ATGACGTGGCAGACGATGAGAACTAGTACGGCTY
77823 T A A TGAAAGCCGTACTAGTTCTCATTAGCAAGGCCTCCATATCAATAACACAGACCAAACAACTGT
77823 T G A TGAAAGCCGTACTAGTTCTCATCAGCAAGGCCTCCATATCAATAACACAGACCAAACAACTGT
GTGAACAGCAAGCACTGCACACAGTTGTTTGGTCTGTGTTATTGATATGGAGGCCTTGCT[AG]ATGAGAACTAGTACG
77823 IS [AG] GCTTTCAAAGCTCTGACCTCACATATCTAATAGGGCAAGCAAAAT
77855 I A GCCCTAAGGAGAGAACCCTTTTTCATTGTTTAACTTGTTTATTATCAGACTCTA
77855 P C A ATGACGTGGCAGACCATTAAGAAACTGTGGGCCY
77855 P T A CGCGCCGAGGTATTAAGAAACTGTGGGCCY
77855 T C A CTGTGGCCCACAGTTTCTTAATGAGAGTCTGATAATAAACAAGTTAAACAATGAAAAAGGGTTCTCTCCTTAGGGCCC
77855 T T A CTGTGGCCCACAGTTTCTTAATAAGAGTCTGATAATAAACAAGTTAAACAATGAAAAAGGGTTCTCTCCTTAGGGCCC
GGCAAGGGCCCTAAGGAGAGAACCCTTTTTCATTGTTTAACTTGTTTATTATCAGACTCT[CT]ATTAAGAAACTGTGGG
77855 IS [CT] CCACAGTTACTGAAAACACAAGCTAAAGACACATTTAGAACAAT
77907 I S GGCAGTGGTGGTCAGGTGTGAAACCCAGT
77907 P C S ATGACGTGGCAGACGAAGACGATGCCCACY
77907 P G S CGCGCCGAGGCAAGACGATGCCCACY
77907 T C S CTGTGTGGGCATCGTCTTCCTGGGTTTCACACCTGACCACCACTGCCAG
77907 T G S CTGTGTGGGCATCGTCTTGCTGGGTTTCACACCTGACCACCACTGCCAG
CTTCCTCATCTTATGCCTGCTGTCGGCTGCCTTTGCGCCCATCTGTGTGGGCATCGTCTT[CG]CTGGGTTTCACACCT
77907 IS [CG] GACCACCACTGCCAGAGTCCTGGGGTGGCTGAGCTGAGCCAGCGC SLC22A1
77952 I A GGGCATCACTCTCTCTCGAGTATTCTGATGGT
77952 P A A CGCGCCGAGGATCAGGAGATTCACGGATY
77952 P C A ATGACGTGGCAGACCTCAGGAGATTCACGGAY
77952 T A A TTCCATCCGTGAATCTCCTGATCCATCAGAATACTCGAGAGAGAGTGATGCCCAA
77952 T C A TTCCATCCGTGAATCTCCTGAGCCATCAGAATACTCGAGAGAGAGTGATGCCCAA
TTCATGAATACACTCAGTCAGTATTTCTTGGGCATCACTCTCTCTCGAGTATTCTGATGG[AC]TCAGGAGATTCACGGA
77952 IS [AC] TGGAAAGGCACTGCCTCGGCCCTGAAGCTGCTCATGGTTCTGCA
77954 I S CACAACCTCTAGGCATCATCTCAGCTGACAGTGAA
77954 P A S CGCGCCGAGGTGCCATCCTGGGGY
77954 P G S ATGACGTGGCAGACCGCCATCCTGGGGY
77954 T A S TCTTCCCCAGGATGGCATCACTGTCAGCTGAGATGATGCCTAGAGGTTGTGGA
77954 T G S TCTTCCCCAGGATGGCGTCACTGTCAGCTGAGATGATGCCTAGAGGTTGTGGA
GAAGGAGCATCACAGGCTTCCAGGAGAGCCCGGGATCCGGGGGGGTCTTCCCCAGGATGGC[AG]TCACTGTCAGCTG
77954 IS [AG] AGATGATGCCTAGAGGTTGTGGAGGTTGTGCAAGACAAGGCCTCCAG
77988 I S GGAGCCCGTCGAAGGCAGTAAGAAAGAGTGTT
77988 P T S CGCGCCGAGGATCATCGGAGAGGAACAAY
77988 P C S ATGACGTGGCAGACGTCATCGGAGAGGAACAY
77988 T T S TTGTTTGTTCCTCTCCGATGATACACTCTTTCTTACTGCCTTCGACGGGCTCCTG
77988 T C S TTGTTTGTTCCTCTCCGATGACACACTCTTTCTTACTGCCTTCGACGGGCTCCTG
GGAGAAGTCTGTGGTGAGTGGCTGTGATGGAATCTCTGCTTGTTTGTTCCTCTCCGATGA[TC]ACACTCTTTCTTACT
77988 IS [TC] GCCTTCGACGGGCTCCTGGAGCTCTGGGACCTGCAGCATGGTTGT TEP1
77995 I A CACTGCTGCATCGAGGGTAGCAAGAATGAGAA
77995 P C A ATGACGTGGCAGACCTGAACCCTGGAGTACTTY
77995 P T A CGCGCCGAGGTTGAACCCTGGAGTACTTY
77995 T C A TATAAAGTACTCCAGGGTTCAGTCTCATTCTTGCTACCCTCGATGCAGCAGTGCA
77995 T T A TATAAAGTACTCCAGGGTTCAATCTCATTCTTGCTACCCTCGATGCAGCAGTGCA
GTGTATGTCTTTTTCAAACTGTTCATTTGCACTGCTGCATCGAGGGTAGCAAGAATGAGA[CT]TGAACCCTGGAGTACT
77995 IS [CT] TTATACAAATTATAGAAGAAGTTTGTAGAATTTTTTTGCCAGGT
78051 I S CCAGCATTCTTTACTTCCTGCACTAACTGATACACCAGCT
78051 P C S ATGACGTGGCAGACGGAAAATAGGACAGAGGCY
78051 P T S CGCGCCGAGGAGAAAATAGGACAGAGGCAY
78051 T C S TGAATGCCTCTGTCCTATTTTCCGCTGGTGTATCAGTTAGTGCAGGAAGTAAAGAATGCTGGAA
78051 T T S TGAATGCCTCTGTCCTATTTTCTGCTGGTGTATCAGTTAGTGCAGGAAGTAAAGAATGCTGGAA
GAGTGCTACAACATAAAACTGGGAAATATGGCCCTATCTGAATGCCTCTGTCCTATTTTC[CT]GCTGGTGTATCAGTTA
78051 IS [CT] GTGCAGGAAGTAAAGAATGCTGGAAAGTTGAATCAGAAATTGAA
78330 I A AAGAGGGCTATTACCGTTACTAAGGGATTGGTATACTT
78330 P C A CGCGCCGAGGCTTATAAGGGATGGGTAGCY

FIGURE 129D

78330 P	G	A	ATGACGTGGCAGACGTTATAAGGGATGGGTAGCY	
78330 T	C	A	TAAGGCTACCCATCCCTTATAAGAGTATACCAATCCCTTAGTAACGGTAATAGCCCTCTTAC	
78330 T	G	A	TAAGGCTACCCATCCCTTATAACAGTATACCAATCCCTTAGTAACGGTAATAGCCCTCTTAC	
78330 IS	[CG]		TATGAGTGAGAAAAATGAATAGTAAGAGGGCTATTACCGTTACTAAGGGATTGGTATACT[CG]TTATAAGGGATGGGTA GCCTTATAGTAGGGAATGTTCTTTTGTAAATAAAAAAAAATAAA	
78337 I		S	CTGATACCAGCCTTGTTCTTGGTCATCAGTAGATAA	
78337 P	G	S	ATGACGTGGCAGACCATATTTACCAACTAGTGGCCY	
78337 P	A	S	CGCGCCGAGGTATATTTACCAACTAGTGGCCY	
78337 T	G	S	ACCAGGCCACTAGTTGGTAAATATGTATCTACTGATGACCAAGAACAAGGCTGGTATCAGCA	
78337 T	A	S	ACCAGGCCACTAGTTGGTAAATATATATCTACTGATGACCAAGAACAAGGCTGGTATCAGCA	
78337 IS	[GA]		ATATGCTAAGTAATAGGCCTTCATTATTGATTTATAACCAGGCCACTAGTTGGTAAATAT[GA]TATCTACTGATGACCAA GAACAAGGCTGGTATCAGCAAATTACAAGAAGGAACAAATTTC	
78427 I		A	GGTGGTTCTGCTGTGATCCAGTGTTTGTTTTTTTTTTTAGTTCAAGAT	
78427 P	A	A	CGCGCCGAGGACATTTTCAGTTGCCTTCTY	
78427 P	C	A	ATGACGTGGCAGACCCATTTTCAGTTGGCTTCTY	
78427 T	A	A	ACCTAGAAGGCAACTGAAAATGTTCTTGAACTAAAAAAAAAAACAAACACTGGATCACAGCAGAACCACCCC	
78427 T	C	A	ACCTAGAAGGCAACTGAAAATGGTCTTGAACTAAAAAAAAAAACAAACACTGGATCACAGCAGAACCACCCC	
78427 IS	[AC]		TTGGTGGTAGAGGGGTGGTTCTGCTGTGATCCAGTGTTTGTTTTTTTTTTTAGTTCAAGA[AC]CATTTTCAGTTGCCTT CTAGGTTCCCTCCTCCATTGCCAGAGTATGTGTAGTGGATAGGG	
78573 I		A	CCTGATAGAAAAATTGATCAAGCTGCAGGATATGGAGAAT	
78573 P	G	A	ATGACGTGGCAGACGAAAGCAAACCCCAGCY	
78573 P	A	A	CGCGCCGAGGAAAAGCAAACCCCAGCY	
78573 T	G	A	GTGAGCTGGGGTTTGCTTTCTTCTCCATATCCTGCAGCTTGATCAATTTTTCTATCAGGAA	
78573 T	A	A	GTGAGCTGGGGTTTGCTTTTTTCTCCATATCCTGCAGCTTGATCAATTTTTCTATCAGGAA	
78573 IS	[GA]		GGAGGGCAAAGATAAAATGTTCCTGATAGAAAAATTGATCAAGCTGCAGGATATGGAGAA[GA]AAAGCAAACCCCAGC TCACTTGTTCTGGAAAGGAGAGAGGTGGAGGTGAGTCTGGAGGCT	
78607 I		A	CGGGAAGCCGGACCCGGGTC	
78607 P	T	A	CGCGCCGAGGTGCGCCTCTCTTCTTAAY	
78607 P	G	A	ATGACGTGGCAGACGGCGCCTCTCTTCTTY	
78607 T	T	A	AGTCTTAAGAAGAGAGGCGCAACCCGGGTCCGGCTTCCCGGC	
78607 T	G	A	AGTCTTAAGAAGAGAGGCGCCACCCGGGTCCGGCTTCCCGGC	
78607 IS	[TG]		TCTCGGCCTGGCCCCGCCCCCAGAGCCGAGCAAACTACCGCCGGGAAGCCGGACCCGGGT[TG]GCGCCTCTCTTCT TAAGACTCCGCCCCACACTCGGCGTCTGTAGCCACGCCCCCTTCCCC	
78731 I		S	GTCTGCCAGATCTCGTTCTGCGCGGCA	
78731 P	G	S	CGCGCCGAGGCTTCACAGCCGGTCG	
78731 P	A	S	CGCGCCGAGGTTTCACAGCCGGTCG	
78731 T	G	S	GAACCGACCGGCTGTGAAGGCCGCGCAGAACGAGATCTGGCAGACTT	
78731 T	A	S	GAACCGACCGGCTGTGAAAGCCGCGCAGAACGAGATCTGGCAGACTT	
78731 IS	[GA]		CATGGTCCTTGCGGAGAACCGACCGGCTGTGAA[GA]GCCGCGCAGAACGAGATCTGGCAGACTTTCTTCAGGGGC	
78732 I		S	GCGGACCGTCTTTATTCCTCTCCTGCCTCAT	
78732 P	C	S	CGCGCCGAGGGAGGTCAGGAAGGAGGTCY	
78732 P	T	S	CGCGCCGAGGAAGGTCAGGAAGGAGGTCY	
78732 T	C	S	GCCAGACCTCCTTCCTGACCTCTGAGGCAGGAGAGGAATAAAGACGGTCCGCCC	
78732 T	T	S	GCCAGACCTCCTTCCTGACCTTTGAGGCAGGAGAGGAATAAAGACGGTCCGCCC	
78732 IS	[CT]		ACAGATGACTAGGGCCCACTGCAGGTCCTGCCAGACCTCCTTCCTGACC[CT]TGAGGCAGGAGAGGAATAAAGACG GTCCGCCCTGGCAAAAAAAAAAAAA	
78733 I		A	ACCGCACTGTAGAGGCCGGTCTTGGTC	
78733 P	G	A	CGCGCCGAGGGTCCCATCCCTGTCACA	
78733 P	T	A	CGCGCCGAGGTTCCCATCCCTGTCACA	
78733 T	G	A	CGGCTGTGACAGGGATGGGACACCAAGACCGGCCTCTACAGTGCGGTGA	
78733 T	T	A	CGGCTGTGACAGGGATGGGAAACCAAGACCGGCCTCTACAGTGCGGTGA	
78733 IS	[GT]		GCCAGGGCCTCCATGTCACCGCACTGTAGAGGCCGGTCTTGGT[GT]TCCCATCCCTGTCACAGCCGCTCACTCCCCG TGCCTCT	PTPRCAP
78738 I		S	CCGGCACATCTGGGGCCCAGCTA	
78738 P	A	S	CGCGCCGAGGTTCCTTGCTGTGTGTCTC	
78738 P	G	S	CGCGCCGAGGCTCCTTGCTGTGTGTCTC	
78738 T	A	S	AAAGGAGACACACAGCAAGGAAAGCTGGGCCCCAGATGTGCCGGAG	
78738 T	G	S	AAAGGAGACACACAGCAAGGAGAGCTGGGCCCCAGATGTGCCGGAG	
78738 IS	[AG]		CAGAGAGCCTCCTGCTAGCAGCGAGGGGCTGGCTGCCCAAAGGAGACACACAGCAAGGA[AG]AGCTGGGCCCCAGA TGTGCCGGAGCATTCCGGAATGGTCATCCTTCCCCT	
78748 I		S	GTCACACAGATGGGTGCATAGATCCCTGCTGGT	
78748 P	C	S	CGCGCCGAGGGATCATCAGAAGACCCCCC	
78748 P	T	S	CGCGCCGAGGAATCATCAGAAGACCCCCC	
78748 T	C	S	CCCTGGGGGGTCTTCTGATGATCCCAGCAGGGATCTATGCACCCATCTGTGTGACTG	
78748 T	T	S	CCCTGGGGGGTCTTCTGATGATTCCAGCAGGGATCTATGCACCCATCTGTGTGACTG	
78748 IS	[CT]		CCAGGCTGTCCAGATTATGAATGGGCTCTTCCACATTGCCCTGGGGGGTCTTCTGATGAT[CT]CCAGCAGGGATCTAT GCACCCATCTGTGTGACTGTGTGGTACCCTCTCTGGGGAGGCATT	
78751 I		S	CCAGCAAGGAATAAACAAAAGAAATTAATTATTGGTCCAAATGGACATAAAAATAA	
78751 P	G	S	CGCGCCGAGGCATATTGAATTTTAAAATGTAACTCATGGGY	
78751 P	A	S	CGCGCCGAGGTATATTGAATTTTAAAATGTAACTCATGGGTY	
78751 T	G	S	TCTAACCCATGAGTTACATTTTAAAATTCAATATGTATTTTTATGTCCATTTGGACCAATAATTAATTTCTTTTGTTTATT CCTTGCTGGTA	
78751 T	A	S	TCTAACCCATGAGTTACATTTTAAAATTCAATATATTTTTATGTCCATTTGGACCAATAATTAATTTCTTTTGTTTATTC CTTGCTGGTA	
78751 IS	[GA]		CTTCCTTTAGTTTCCTGTCTTTCCCTTCTAACCCATGAGTTACATTTTAAAATTCAATAT[GA]TATTTTTATGTCCATTTG GACCAATAATTAATTTCTTTTGTTTATTCCTTGCTGGTAAAA	
78753 I		S	GGCTCTGGTCTGCGATGGGGCCACT	
78753 P	C	S	CGCGCCGAGGGGAGGAGACGAGGGCY	
78753 P	T	S	CGCGCCGAGGAGAGGAGACGAGGGCY	
78753 T	C	S	GCCCGCCCTCGTCTCCTCCGTGGCCCCATCGCAGACCAGAGCCCC	
78753 T	T	S	GCCCGCCCTCGTCTCCTCTGTGGCCCCATCGCAGACCAGAGCCCC	
78753 IS	[CT]		CACTGCCATCTCGACCAGTCCGGACCTGCAGTGGCTGGTGCAGCCCGCCCTCGTCTCCTC[CT]GTGGCCCCATCGC AGACCAGAGCCCCTCACCCTTTCGGAGTCCCCGCCCCCTCCGCTGGG	FOS
78755 I		S	CTGTTGTGGGCCCAGTGGAGGGATGAGATT	
78755 P	C	S	CGCGCCGAGGGTTGGTTTTTGGTGGGTGY	
78755 P	T	S	CGCGCCGAGGATTGGTTTTTGGTGGGTGGY	
78755 T	C	S	CCACCCACCCACCAAAAACCAACATCTCATCCCTCCACTGGGCCCACAACAGTC	
78755 T	T	S	CCACCCACCCACCAAAAACCAATATCTCATCCCTCCACTGGGCCCACAACAGTC	
78755 IS	[CT]		GCATGAGCCAAGAGGACCACAGCAGCAAATACCAATACCCACCCACCCACCAAAAACCAA[CT]ATCTCATCCCTCCAC TGGGCCCACAACAGTCTCCCACCTGCAGAGCTGTCAAATTCCTGC	
78756 I		A	GGGCTCACAGGTGACATTAATAAGTAACTTTATCGAGTACCCCAAATC	
78756 P	G	A	CGCGCCGAGGGTTACCTATGTTTGGAAGATGGG	
78756 P	T	A	CGCGCCGAGGTTTACCTATGTTTGGAAGATGGG	
78756 T	G	A	TAACCCCATCTTCCAAACATAGGTAACATTTGGGGTACTCGATAAAGTTACTTATTAATGTCACCTGTGAGCCCAA	

FIGURE 129D

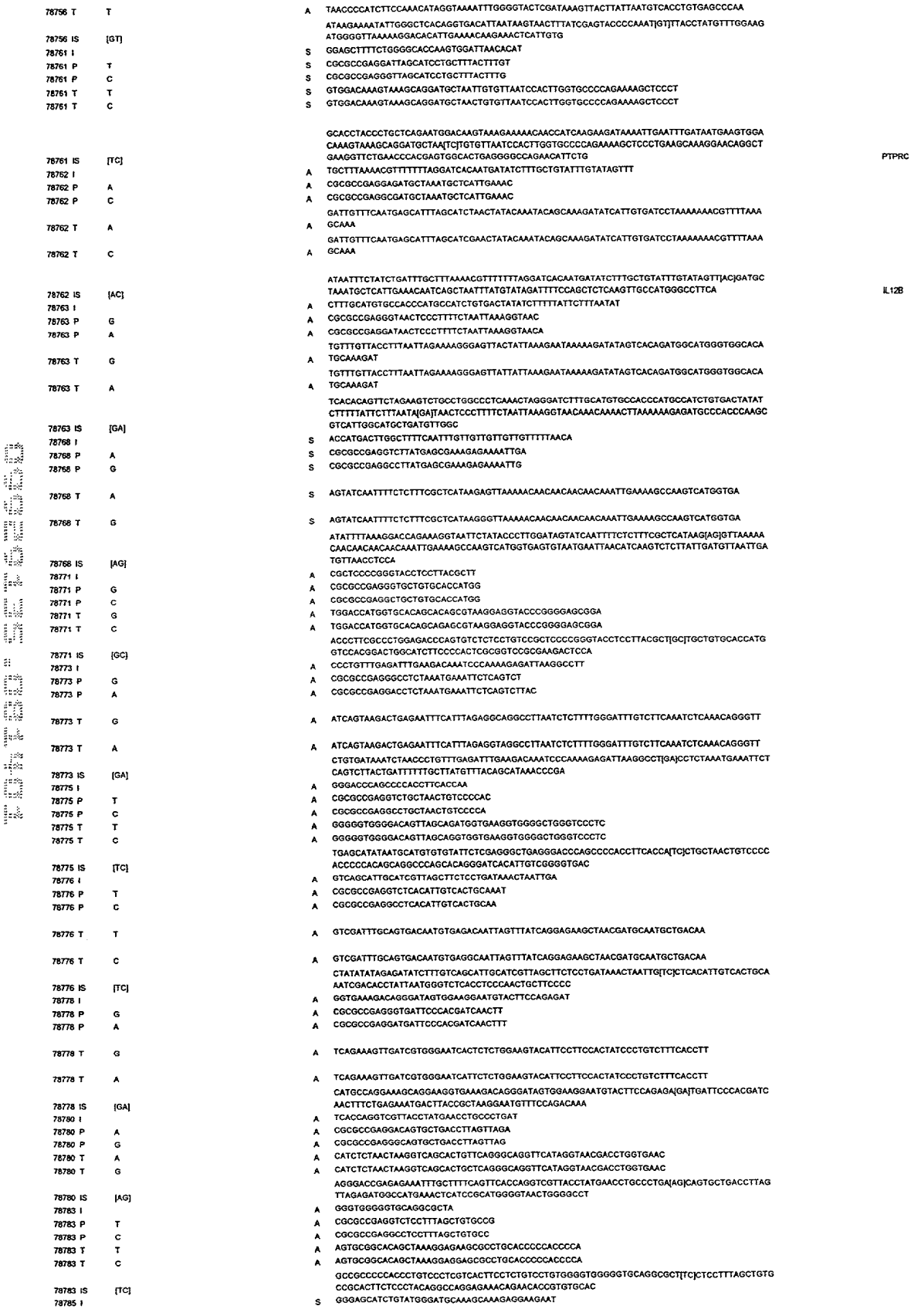

78756 T T A TAACCCCATCTTCCAAACATAGGTAAAATTTGGGGTACTCGATAAAGTTACTTATTAATGTCACCTGTGAGCCCAA
ATAAGAAAATATTGGGCTCACAGGTGACATTAATAAGTAACTTTATCGAGTACCCCAAAT[GT]TTACCTATGTTTGGAAG
78756 IS [GT] ATGGGGTTAAAAAGGACACATTGAAAACAAGAAACTCATTGTG
78761 I S GGAGCTTTTCTGGGGCACCAAGTGGATTAACACAT
78761 P T S CGCGCCGAGGATTAGCATCCTGCTTTACTTTGT
78761 P C S CGCGCCGAGGGTTAGCATCCTGCTTTACTTTG
78761 T T S GTGGACAAAGTAAAGCAGGATGCTAATTGTGTTAATCCACTTGGTGCCCCAGAAAAGCTCCCT
78761 T C S GTGGACAAAGTAAAGCAGGATGCTAACTGTGTTAATCCACTTGGTGCCCCAGAAAAGCTCCCT
GCACCTACCCTGCTCAGAATGGACAAGTAAAGAAAAACAACCATCAAGAAGATAAAATTGAATTTGATAATGAAGTGGA
CAAAGTAAAGCAGGATGCTAA[TC]TGTGTTAATCCACTTGGTGCCCCAGAAAAGCTCCCTGAAGCAAAGGAACAGGCT
78761 IS [TC] GAAGGTTCTGAACCCACGAGTGGCACTGAGGGGCCAGAACATTCTG PTPRC
78762 I A TGCTTTAAAACGTTTTTTTAGGATCACAATGATATCTTTGCTGTATTTGTATAGTTT
78762 P A A CGCGCCGAGGAGATGCTAAATGCTCATTGAAAC
78762 P C A CGCGCCGAGGCGATGCTAAATGCTCATTGAAAC
GATTGTTTCAATGAGCATTTAGCATCTAACTATACAAATACAGCAAAGATATCATTGTGATCCTAAAAAAAACGTTTTAAA
78762 T A A GCAAA
GATTGTTTCAATGAGCATTTAGCATCGAACTATACAAATACAGCAAAGATATCATTGTGATCCTAAAAAAAACGTTTTAAA
78762 T C A GCAAA
ATAATTTCTATCTGATTTGCTTTAAAACGTTTTTTTAGGATCACAATGATATCTTTGCTGTATTTGTATAGTT[AC]GATGC
78762 IS [AC] TAAATGCTCATTGAAACAATCAGCTAATTTATGTATAGATTTTCCAGCTCTCAAGTTGCCATGGGCCTTCA IL12B
78763 I A CTTTGCATGTGCCACCCATGCCATCTGTGACTATATCTTTTTATTCTTTAATAT
78763 P G A CGCGCCGAGGGTAACTCCCTTTTCTAATTAAAGGTAAC
78763 P A A CGCGCCGAGGATAACTCCCTTTTCTAATTAAAGGTAACA
TGTTTGTTACCTTTAATTAGAAAAGGGAGTTACTATTAAAGAATAAAAAGATATAGTCACAGATGGCATGGGTGGCACA
78763 T G A TGCAAAGAT
TGTTTGTTACCTTTAATTAGAAAAGGGAGTTATTATTAAAGAATAAAAAGATATAGTCACAGATGGCATGGGTGGCACA
78763 T A A TGCAAAGAT
TCACACAGTTCTAGAAGTCTGCCTGGCCCTCAAACTAGGGATCTTTGCATGTGCCACCCATGCCATCTGTGACTATAT
CTTTTTATTCTTTAATA[GA]TAACTCCCTTTTCTAATTAAAGGTAACAAACAAAACTTAAAAAAGAGATGCCCACCCAAGC
78763 IS [GA] GTCATTGGCATGCTGATGTTGGC
78768 I S ACCATGACTTGGCTTTTCAATTTGTTGTTGTTGTTTTTAACA
78768 P A S CGCGCCGAGGTCTTATGAGCGAAAGAGAAAATTGA
78768 P G S CGCGCCGAGGCCTTATGAGCGAAAGAGAAAATTG
78768 T A S AGTATCAATTTTCTCTTTCGCTCATAAGAGTTAAAAACAACAACAACAACAAATTGAAAAGCCAAGTCATGGTGA
78768 T G S AGTATCAATTTTCTCTTTCGCTCATAAGGGTTAAAAACAACAACAACAACAAATTGAAAAGCCAAGTCATGGTGA
ATATTTTAAAGGACCAGAAAGGTAATTCTATACCCTTGGATAGTATCAATTTTCTCTTTCGCTCATAAG[AG]GTTAAAAA
CAACAACAACAACAAATTGAAAAGCCAAGTCATGGTGAGTGTAATGAATTAACATCAAGTCTCTTATTGATGTTAATTGA
78768 IS [AG] TGTTAACCTCCA
78771 I A CGCTCCCCGGGTACCTCCTTACGCTT
78771 P G A CGCGCCGAGGGTGCTGTGCACCATGG
78771 P C A CGCGCCGAGGCTGCTGTGCACCATGG
78771 T G A TGGACCATGGTGCACAGCACAGCGTAAGGAGGTACCCGGGGAGCGGA
78771 T C A TGGACCATGGTGCACAGCAGAGCGTAAGGAGGTACCCGGGGAGCGGA
ACCCTTCGCCCTGGAGACCCAGTGTCTCTCCTGTCCGCTCCCCGGGTACCTCCTTACGCT[GC]TGCTGTGCACCATG
78771 IS [GC] GTCCACGGACTGGCATCTTCCCCACTCGCGGTCCGCGAAGACTCCA
78773 I A CCCTGTTTGAGATTTGAAGACAAATCCCAAAAGAGATTAAGGCCTT
78773 P G A CGCGCCGAGGGCCTCTAAATGAAATTCTCAGTCT
78773 P A A CGCGCCGAGGACCTCTAAATGAAATTCTCAGTCTTAC
78773 T G A ATCAGTAAGACTGAGAATTTCATTTAGAGGCAGGCCTTAATCTCTTTTGGGATTTGTCTTCAAATCTCAAACAGGGTT
78773 T A A ATCAGTAAGACTGAGAATTTCATTTAGAGGTAGGCCTTAATCTCTTTTGGGATTTGTCTTCAAATCTCAAACAGGGTT
CTGTGATAAATCTAACCCTGTTTGAGATTTGAAGACAAATCCCAAAAGAGATTAAGGCCT[GA]CCTCTAAATGAAATTCT
78773 IS [GA] CAGTCTTACTGATTTTTTGCTTATGTTTACAGCATAAACCCGA
78775 I A GGGACCCAGCCCCACCTTCACCAA
78775 P T A CGCGCCGAGGTCTGCTAACTGTCCCCAC
78775 P C A CGCGCCGAGGCCTGCTAACTGTCCCCA
78775 T T A GGGGGTGGGGACAGTTAGCAGATGGTGAAGGTGGGGCTGGGTCCCTC
78775 T C A GGGGGTGGGGACAGTTAGCAGGTGGTGAAGGTGGGGCTGGGTCCCTC
TGAGCATATAATGCATGTGTGTATTCTCGAGGGCTGAGGGACCCAGCCCCACCTTCACCA[TC]CTGCTAACTGTCCCC
78775 IS [TC] ACCCCCACAGCAGGCCCAGCACAGGGATCACATTGTCGGGGTGAC
78776 I A GTCAGCATTGCATCGTTAGCTTCTCCTGATAAACTAATTGA
78776 P T A CGCGCCGAGGTCTCACATTGTCACTGCAAAT
78776 P C A CGCGCCGAGGCCTCACATTGTCACTGCAA
78776 T T A GTCGATTTGCAGTGACAATGTGAGACAATTAGTTTATCAGGAGAAGCTAACGATGCAATGCTGACAA
78776 T C A GTCGATTTGCAGTGACAATGTGAGGCAATTAGTTTATCAGGAGAAGCTAACGATGCAATGCTGACAA
CTATATATAGAGATATCTTTGTCAGCATTGCATCGTTAGCTTCTCCTGATAAACTAATTG[TC]CTCACATTGTCACTGCA
78776 IS [TC] AATCGACACCTATTAATGGGTCTCACCTCCCAACTGCTTCCCC
78778 I A GGTGAAAGACAGGGATAGTGGAAGGAATGTACTTCCAGAGAT
78778 P G A CGCGCCGAGGGTGATTCCCACGATCAACTT
78778 P A A CGCGCCGAGGATGATTCCCACGATCAACTTT
78778 T G A TCAGAAAGTTGATCGTGGGAATCACTCTCTGGAAGTACATTCCTTCCACTATCCCTGTCTTTCACCTT
78778 T A A TCAGAAAGTTGATCGTGGGAATCATTCTCTGGAAGTACATTCCTTCCACTATCCCTGTCTTTCACCTT
CATGCCAGGAAAGCAGGAAGGTGAAAGACAGGGATAGTGGAAGGAATGTACTTCCAGAGA[GA]TGATTCCCACGATC
78778 IS [GA] AACTTTCTGAGAAATGACTTACCGCTAAGGAATGTTTCCAGACAAA
78780 I A TCACCAGGTCGTTACCTATGAACCTGCCCTGAT
78780 P A A CGCGCCGAGGACAGTGCTGACCTTAGTTAGA
78780 P G A CGCGCCGAGGGCAGTGCTGACCTTAGTTAG
78780 T A A CATCTCTAACTAAGGTCAGCACTGTTCAGGGCAGGTTCATAGGTAACGACCTGGTGAAC
78780 T G A CATCTCTAACTAAGGTCAGCACTGCTCAGGGCAGGTTCATAGGTAACGACCTGGTGAAC
AGGGACCGAGAGAAATTTGCTTTTCAGTTCACCAGGTCGTTACCTATGAACCTGCCCTGA[AG]CAGTGCTGACCTTAG
78780 IS [AG] TTAGATGGCCATGAAACTCATCCGCATGGGGTAACTGGGGCCT
78783 I A GGGTGGGGGTGCAGGCGCTA
78783 P T A CGCGCCGAGGTCTCCTTTAGCTGTGCCG
78783 P C A CGCGCCGAGGCCTCCTTTAGCTGTGCC
78783 T T A AGTGCGGCACAGCTAAAGGAGAAGCGCCTGCACCCCCACCCCA
78783 T C A AGTGCGGCACAGCTAAAGGAGGAGCGCCTGCACCCCCACCCCA
GCCGCCCCCACCCTGTCCCTCGTCACTTCCTCTGTCCTGTGGGGTGGGGGTGCAGGCGCT[TC]CTCCTTTAGCTGTG
78783 IS [TC] CCGCACTTCTCCCTACAGGCCAGGAGAAACAGAACACCGTGTGCAC
78785 I S GGGAGCATCTGTATGGGATGCAAAGCAAAGAGGAAGAAT

FIGURE 129D

78785 P	C	S	CGCGCCGAGGGTAGATCTTACTCACCCCCA		
78785 P	T	S	CGCGCCGAGGATAGATCTTACTCACCCCCAA		
78785 T	C	S	GGGCTTGGGGGTGAGTAAGATCTACTTCTTCCTCTTTGCTTTGCATCCCATACAGATGCTCCCTG		
78785 T	T	S	GGGCTTGGGGGTGAGTAAGATCTATTTCTTCCTCTTTGCTTTGCATCCCATACAGATGCTCCCTG		
78785 IS	[CT]		GTCCCACCTCACCTCAGGGTCTAGGGTGGGAGTGCTGGGCTTGGGGGTGAGTAAGATCTA[CT]TTCTTCCTCTTTGC TTTGCATCCCATACAGATGCTCCCTGCTGTATTCAAGCTGAGAAAA		
78787 I		S	GGGGGAGTCTCTAAGCTTCTGTGAAGGGTGTGTT		
78787 P	T	S	CGCGCCGAGGATATTCAGCAACACTCTTGGTT		
78787 P	C	S	CGCGCCGAGGGTATTCAGCAACACTCTTGGT		
78787 T	T	S	TTCCAACCAAGAGTGTTGCTGAATATACACACCCTTCACAGAAGCTTAGAGACTCCCCCAG		
78787 T	C	S	TTCCAACCAAGAGTGTTGCTGAATACACACACCCTTCACAGAAGCTTAGAGACTCCCCCAG		
78787 IS	[TC]		TTTACTTAAGCTAGTCTGAGTTGGACCTTTGTCACTTCCAACCAAGAGTGTTGCTGAATA[TC]ACACACCCTTCACAGA AGCTTAGAGACTCCCCCAGTTCTCCCCAAAACACAGAGTCAGAA		
78788 I		S	GGGCAGTGGCACTGGATCTGGGGGTAA		
78788 P	A	S	CGCGCCGAGGTGTGGCCAGACACACC		
78788 P	G	S	CGCGCCGAGGCGTGGCCAGACACAC		
78788 T	A	S	GAGGGGTGTGTCTGGCCACATACCCCCAGATCCAGTGCCACTGCCCAC		
78788 T	G	S	GAGGGGTGTGTCTGGCCACGTACCCCCAGATCCAGTGCCACTGCCCAC		
78788 IS	[AG]		CCAGCTTCGGGACTTCTGTTCAGCCAACCCATGTGTTAATGGAGGGGTGTGTCTGGCCAC[AG]TACCCCCAGATCCA GTGCCACTGCCCACCGGGCTTCGAGGGCCATGCCTGTGAACGTGAT		NOTCH4
78789 I		S	GAAGGCTGTGCAGTAATACTCTCCCTCCTGTTCCTTGT		
78789 P	G	S	CGCGCCGAGGCTAGCCTTCTGCTTGGTC		
78789 P	T	S	CGCGCCGAGGATAGCCTTCTGCTTGGTC		
78789 T	G	S	TTTGGACCAAGCAGAAGGCTAGCAAGGAACAGGAGGGAGAGTATTACTGCACAGCCTTCAA		
78789 T	T	S	TTTGGACCAAGCAGAAGGCTATCAAGGAACAGGAGGGAGAGTATTACTGCACAGCCTTCAA		
78789 IS	[GT]		AACCCTTCTATCAAATGACCTCAAATGCCACCCAGGCATTTTGGACCAAGCAGAAGGCTA[GT]CAAGGAACAGGAGGG AGAGTATTACTGCACAGCCTTCAACAGAGCCAACCACGCCTCCAG		PECAM1
78790 I		A	GAGAGGGTCCTGAGGGTGGTGAATATCTCCAAGGT		
78790 P	G	A	CGCGCCGAGGGAGATCAGGACAGGGTAGG		
78790 P	A	A	CGCGCCGAGGAAGATCAGGACAGGGTAGG		
78790 T	G	A	TCCCCCTACCCTGTCCTGATCTCCCTTGGAGATATTCACCACCCTCAGGACCCTCTCAT		
78790 T	A	A	TCCCCCTACCCTGTCCTGATCTTCCTTGGAGATATTCACCACCCTCAGGACCCTCTCAT		
78790 IS	[GA]		CCCTGTTTACAGAATGGGAGGAGAATGAGAGGGTCCTGAGGGTGGTGAATATCTCCAAGG[GA]AGATCAGGACAGGG TAGGGGGACCCCCTCCATAGATGCCTTCTCTGTTCCCCTCTGGCTG		
78792 I		A	GCTGGCGGGCACCAACTCACGTGTTCA		
78792 P	C	A	CGCGCCGAGGCGAGGAGATTTTTGCCAGAA		
78792 P	T	A	CGCGCCGAGGTGAGGAGATTTTTGCCAGAAC		
78792 T	C	A	TGAGGTTCTGGCAAAAATCTCCTCGGAACACGTGAGTTGGTGCCCGCCAGCCA		
78792 T	T	A	TGAGGTTCTGGCAAAAATCTCCTCAGAACACGTGAGTTGGTGCCCGCCAGCCA		
78792 IS	[CT]		AGCCTGGGGGCTCAGCCAGGAGAGGGAGCTGCTGGCTGGCGGGCACCAACTCACGTGTTC[CT]GAGGAGATTTTTG CCAGAACCTCAGGGCTGGGTGTGCCCACCAGTTCCATGATGCGCTTC		
78793 I		S	CTTGCATCCCAAGGCATCCATCAGAGCAGACT		
78793 P	C	S	CGCGCCGAGGGCCCGGGTTCCATG		
78793 P	T	S	CGCGCCGAGGACCCGGGTTCCATGG		
78793 T	C	S	GGGTCCATGGAACCCGGGCGTCTGCTCTGATGGATGCCTTGGGATGCAAGCC		
78793 T	T	S	GGGTCCATGGAACCCGGGTGTCTGCTCTGATGGATGCCTTGGGATGCAAGCC		
78793 IS	[CT]		CATGATGGGCGCCCAAGAGCAGAGGCATGGCCGTGGGGAGGAGGGTCCATGGAACCCGGG[CT]GTCTGCTCTGATG GATGCCTTGGGATGCAAGCCCCAGCCAAGGTCAAGGTGGCAACGAGA		
78794 I		S	GGAGGACGCGCTGGGGCCGT		
78794 P	C	S	CGCGCCGAGGGGACCCCGGGAGAC		
78794 P	T	S	CGCGCCGAGGAGACCCCGGGAGACT		
78794 T	C	S	TTTGAGTCTCCCGGGGTCCCGGCCCCAGCGGCGTCCTCCAG		
78794 T	T	S	TTTGAGTCTCCCGGGGTCTCGGCCCCAGCGCGTCCTCCAG		
78794 IS	[CT]		CTACCTCCAGGCTGAGCAGCTCTAACCACTGAGACCTCTCCCTTTGAGTCTCCCGGGGTC[CT]CGGCCCCAGCGCGT CCTCCAGAAAGCCCTGGGACAGAAGAGAGCCCAAGGCTGACACTCC		
78816 I		S	GGAAAGAGGAGTGAGACTAAGGGGCACAGGAGTC		
78816 P	C	S	CGCGCCGAGGGAAGGGTGAAGCCAAGGY		
78816 P	A	S	CGCGCCGAGGTAAGGGTGAAGCCAAGGGY		
78816 T	C	S	TGTGCCCTTGGCTTCACCCTTCAGTCCTGTGCCCCTTAGTCTCACTCCTCTTTCCCC		
78816 T	A	S	TGTGCCCTTGGCTTCACCCTTAACTCCTGTGCCCCTTAGTCTCACTCCTCTTTCCCC		
78816 IS	[CA]		ggttgttgtaaagagtcacattacacttgctgtgccctggcttcaccctt[CA]actccigtgcccctagtctcactcctctttcccctctccacagactccc		
78817 I		A	CATGAAAGCTACAGTTTGACACTGAATTGGGCGAAGGATT		
78817 P	C	A	CGCGCCGAGGCTAAAGCTTGAAGGCATCTCT		
78817 P	G	A	CGCGCCGAGGGTAAAGCTTGAAGGCATCTCT		
78817 T	C	A	GGGGAGAGATGCCTTCAAGCTTTAGATCCTTCGCCCAATTCAGTGTCAAACTGTAGCTTTCATGCC		
78817 T	G	A	GGGGAGAGATGCCTTCAAGCTTTACATCCTTCGCCCAATTCAGTGTCAAACTGTAGCTTTCATGCC		
78817 IS	[CG]		actcaatgggcatgaaagctacagttgacactgaattgggcgaaggat[CG]taaagcttgaaggcatctctccccacaggaataggatacatacctcaac		
78821 I		A	GATGGACTCAGAGCAAGTTCTCTGCCTCAATGTCAACAT		
78821 P	A	A	CGCGCCGAGGAATGACTCTGGCTTCCCA		
78821 P	G	A	CGCGCCGAGGGATGACTCTGGCTTCCCA		
78821 T	A	A	TTTGTGGGAAGCCAGAGTCATTTGTTGACATTGAGGCAGAGAACTTGCTCTGAGTCCATCGA		
78821 T	G	A	TTTGTGGGAAGCCAGAGTCATCTGTTGACATTGAGGCAGAGAACTTGCTCTGAGTCCATCGA		
78821 IS	[AG]		gttcaggcatcgatggactcagagcaagtctctgcctcaatgtcaaca[AG]atgactctggctcccacaaaagatgtacagglcaaacctccctgacatg		
78823 I		S	GCAGCCAGCAGGGGCCAGTCCTGA		
78823 P	G	S	CGCGCCGAGGCGTTCTTATCCCCCTCTTG		
78823 P	A	S	CGCGCCGAGGTGTTCTTATCCCCCTCTTGT		
78823 T	G	S	TGTGACAAGAGGGGGATAAGAACGCAGGACTGGCCCCTGCTGGCTGCAC		
78823 T	A	S	TGTGACAAGAGGGGGATAAGAACACAGGACTGGCCCCTGCTGGCTGCAC		
78823 IS	[GA]		cccatcaccagccactctgcaggcatctgtgacaagaggggatagaac[GA]caggactggccccctgctggctgcaccacctcttctcaggccgcttgaggg		
78824 I		S	TAACGAAGCTCAGCTTATTAGACTTAAGCTTCCTCAACTTCCTTATTCTCA		
78824 P	G	S	CGCGCCGAGGCGTGTCAAAACGGCTTTTC		
78824 P	A	S	CGCGCCGAGGTGTGTCAAAACGGCTTTTCA		
78824 T	G	S	CAGGTGAAAAGCCGTTTTGACACGGAGAATAAGGAAGTTGAGGAAGCTTAAGTCTAATAAGCTGAGCTTCGTTA		
78824 T	A	S	CAGGTGAAAAGCCGTTTTGACACAGAGAATAAGGAAGTTGAGGAAGCTTAAGTCTAATAAGCTGAGCTTCGTTA		
78824 IS	[GA]		tctgagagggcgggcagaaagagcaaacaggtgaaaagccgtttgacac[GA]gagaataaggaagttgaggaagcttaagtctaataagctgagcttcgtta		
78827 I		S	AGAAGAGGTCAGGAGCTCCAACAGCTAAATTGTTGTTTAGATGTTTA		
78827 P	G	S	CGCGCCGAGGCTGAAACAGGCAGCAGAG		
78827 P	A	S	CGCGCCGAGGTTGAAACAGGCAGCAGAG		
78827 T	G	S	TTGTCTCTGCTGCCTGTTTCAGAAACATCTAAACAACAATTTAGCTGTTGGAGCTCCTGACCTCTTCTCT		
78827 T	A	S	TTGTCTCTGCTGCCTGTTTCAAAAACATCTAAACAACAATTTAGCTGTTGGAGCTCCTGACCTCTTCTCT		

FIGURE 129D

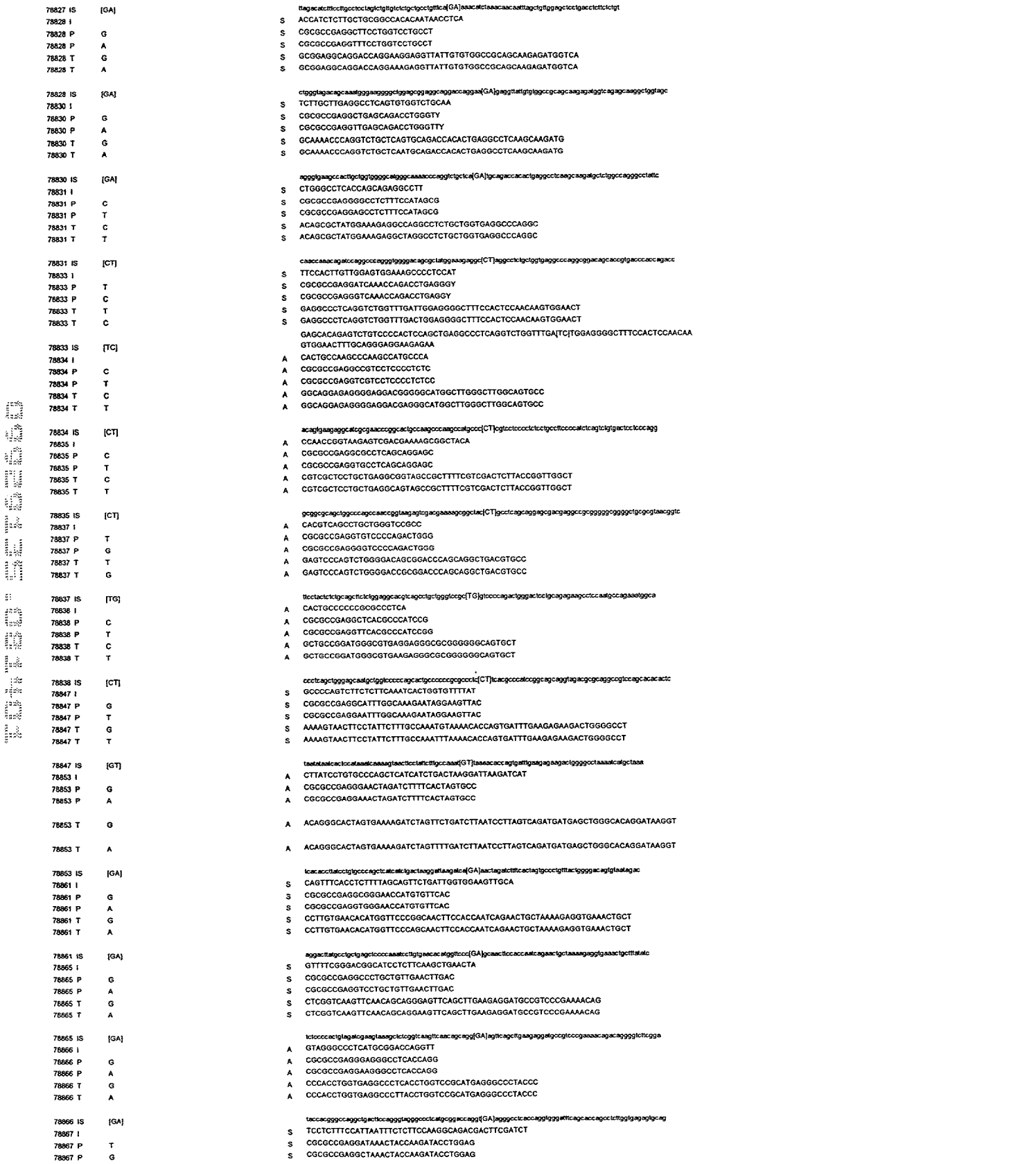

78827 IS [GA] ttagacatcttccttgcctcctagtctgttgtctctgctgcctgtttca[GA]aaacatctaaacaacaatttagctgttggagctcctgaccttcttctctgt
78828 I S ACCATCTCTTGCTGCGGCCACACAATAACCTCA
78828 P G S CGCGCCGAGGCTTCCTGGTCCTGCCT
78828 P A S CGCGCCGAGGTTTCCTGGTCCTGCCT
78828 T G S GCGGAGGCAGGACCAGGAAGGAGGTTATTGTGTGGCCGCAGCAAGAGATGGTCA
78828 T A S GCGGAGGCAGGACCAGGAAAGAGGTTATTGTGTGGCCGCAGCAAGAGATGGTCA
78828 IS [GA] ctgggtagacagcaaatgggaaggggctggagcggaggcaggaccaggaa[GA]gaggttattgtgtggccgcagcaagagatggtcagagcaaggctggtagc
78830 I S TCTTGCTTGAGGCCTCAGTGTGGTCTGCAA
78830 P G S CGCGCCGAGGCTGAGCAGACCTGGGTY
78830 P A S CGCGCCGAGGTTGAGCAGACCTGGGTTY
78830 T G S GCAAAACCCAGGTCTGCTCAGTGCAGACCACACTGAGGCCTCAAGCAAGATG
78830 T A S GCAAAACCCAGGTCTGCTCAATGCAGACCACACTGAGGCCTCAAGCAAGATG
78830 IS [GA] agggtgaagccacttgctggtggggcatgggcaaaacccaggtctgctca[GA]tgcagaccacactgaggcctcaagcaagatgctctggccagggcctattc
78831 I S CTGGGCCTCACCAGCAGAGGCCTT
78831 P C S CGCGCCGAGGGGCCTCTTTCCATAGCG
78831 P T S CGCGCCGAGGAGCCTCTTTCCATAGCG
78831 T C S ACAGCGCTATGGAAAGAGGCCAGGCCTCTGCTGGTGAGGCCCAGGC
78831 T T S ACAGCGCTATGGAAAGAGGCTAGGCCTCTGCTGGTGAGGCCCAGGC
78831 IS [CT] caaccaaacagatccaggcccagggtggggacagcgctatggaaagaggc[CT]aggcctctgctggtgaggcccaggcggacagcaccgtgacccaccagacc
78833 I S TTCCACTTGTTGGAGTGGAAAGCCCCTCCAT
78833 P T S CGCGCCGAGGATCAAACCAGACCTGAGGGY
78833 P C S CGCGCCGAGGGTCAAACCAGACCTGAGGY
78833 T T S GAGGCCCTCAGGTCTGGTTTGATTGGAGGGGCTTTCCACTCCAACAAGTGGAACT
78833 T C S GAGGCCCTCAGGTCTGGTTTGACTGGAGGGGCTTTCCACTCCAACAAGTGGAACT
78833 IS [TC] GAGCACAGAGTCTGTCCCCACTCCAGCTGAGGCCCTCAGGTCTGGTTTGA[TC]TGGAGGGGCTTTCCACTCCAACAA
GTGGAACTTTGCAGGGAGGAAGAGAA
78834 I A CACTGCCAAGCCCAAGCCATGCCCA
78834 P C A CGCGCCGAGGCCGTCCTCCCCTCTC
78834 P T A CGCGCCGAGGTCGTCCTCCCCTCTCC
78834 T C A GGCAGGAGAGGGGAGGACGGGGGCATGGCTTGGGCTTGGCAGTGCC
78834 T T A GGCAGGAGAGGGGAGGACGAGGGCATGGCTTGGGCTTGGCAGTGCC
78834 IS [CT] acagtgaagaggcatcgcgaacccggcactgccaagcccaagccatgccc[CT]cgtcctcccctctcctgccttcccccatctcagtctgtgactcctcccagg
78835 I A CCAACCGGTAAGAGTCGACGAAAAGCGGCTACA
78835 P C A CGCGCCGAGGCGCCTCAGCAGGAGC
78835 P T A CGCGCCGAGGTGCCTCAGCAGGAGC
78835 T C A CGTCGCTCCTGCTGAGGCGGTAGCCGCTTTTCGTCGACTCTTACCGGTTGGCT
78835 T T A CGTCGCTCCTGCTGAGGCAGTAGCCGCTTTTCGTCGACTCTTACCGGTTGGCT
78835 IS [CT] gcggcgcagctggcccagccaaccggtaagagtcgcagcaaaagcggctac[CT]gcctcagcaggagcgacgaggccgcgggggcggggctgcgcgtaacggtc
78837 I A CACGTCAGCCTGCTGGGTCCGCC
78837 P T A CGCGCCGAGGTGTCCCCAGACTGGG
78837 P G A CGCGCCGAGGGGTCCCCAGACTGGG
78837 T T A GAGTCCCAGTCTGGGGACAGCGGACCCAGCAGGCTGACGTGCC
78837 T G A GAGTCCCAGTCTGGGGACCGCGGACCCAGCAGGCTGACGTGCC
78837 IS [TG] ttcctactctctgcagcttctctggaggcacgtcagcctgctgggtccgc[TG]gtccccagactgggactcctgcagagaagcctccaatgccagaaatggca
78838 I A CACTGCCCCCCGCGCCCTCA
78838 P C A CGCGCCGAGGCTCACGCCCATCCG
78838 P T A CGCGCCGAGGTTCACGCCCATCCGG
78838 T C A GCTGCCGGATGGGCGTGAGGAGGGCGCGGGGGGCAGTGCT
78838 T T A GCTGCCGGATGGGCGTGAAGAGGGCGCGGGGGGCAGTGCT
78838 IS [CT] ccctcagctgggagcaatgctggtcccccagcactgcccccgcgcccctc[CT]tcacgcccatccggcagcaggtagacgcgcaggccgtccagcacacactc
78847 I S GCCCCAGTCTTCTCTTCAAATCACTGGTGTTTTAT
78847 P G S CGCGCCGAGGCATTTGGCAAAGAATAGGAAGTTAC
78847 P T S CGCGCCGAGGAATTTGGCAAAGAATAGGAAGTTAC
78847 T G S AAAAGTAACTTCCTATTCTTTGCCAAATGTAAAACACCAGTGATTTGAAGAGAAGACTGGGGCCT
78847 T T S AAAAGTAACTTCCTATTCTTTGCCAAATTTAAAACACCAGTGATTTGAAGAGAAGACTGGGGCCT
78847 IS [GT] taatataatcactccataaatcaaaagtaacttcctatcttgccaaat[GT]taaaacaccagtgatttgaagagaagactggggcctaaaatcatgctaaa
78853 I A CTTATCCTGTGCCCAGCTCATCATCTGACTAAGGATTAAGATCAT
78853 P G A CGCGCCGAGGGAACTAGATCTTTTCACTAGTGCC
78853 P A A CGCGCCGAGGAAACTAGATCTTTTCACTAGTGCC
78853 T G A ACAGGGCACTAGTGAAAAGATCTAGTTCTGATCTTAATCCTTAGTCAGATGATGAGCTGGGCACAGGATAAGGT
78853 T A A ACAGGGCACTAGTGAAAAGATCTAGTTTTGATCTTAATCCTTAGTCAGATGATGAGCTGGGCACAGGATAAGGT
78853 IS [GA] tcacacctatcctgtgcccagctcatcatctgactaaggattaagatca[GA]aactagatctttcactagtgcctgtttactggggacagtgtaatagac
78861 I S CAGTTTCACCTCTTTTAGCAGTTCTGATTGGTGGAAGTTGCA
78861 P G S CGCGCCGAGGCGGGAACCATGTGTTCAC
78861 P A S CGCGCCGAGGTGGGAACCATGTGTTCAC
78861 T G S CCTTGTGAACACATGGTTCCCGGCAACTTCCACCAATCAGAACTGCTAAAAGAGGTGAAACTGCT
78861 T A S CCTTGTGAACACATGGTTCCCAGCAACTTCCACCAATCAGAACTGCTAAAAGAGGTGAAACTGCT
78861 IS [GA] aggacttatgcctgctgagctcccaaatcctgtgaacactggttccc[GA]gcaacttccaccaatcagaactgctaaaagaggtgaaactgctttatatc
78865 I S GTTTTCGGGACGGCATCCTCTTCAAGCTGAACTA
78865 P G S CGCGCCGAGGCCCTGCTGTTGAACTTGAC
78865 P A S CGCGCCGAGGTCCTGCTGTTGAACTTGAC
78865 T G S CTCGGTCAAGTTCAACAGCAGGGAGTTCAGCTTGAAGAGGATGCCGTCCCGAAAACAG
78865 T A S CTCGGTCAAGTTCAACAGCAGGAAGTTCAGCTTGAAGAGGATGCCGTCCCGAAAACAG
78865 IS [GA] tctcccactgtagatcgaagtaaagctctcggtcaagttcaacagcagg[GA]agttcagcttgaagaggatgccgtcccgaaaacagacaggggtcttcgga
78866 I A GTAGGGCCCTCATGCGGACCAGGTT
78866 P G A CGCGCCGAGGGAGGGCCTCACCAGG
78866 P A A CGCGCCGAGGAAGGGCCTCACCAGG
78866 T G A CCCACCTGGTGAGGCCCTCACCTGGTCCGCATGAGGGCCCTACCC
78866 T A A CCCACCTGGTGAGGCCCTTACCTGGTCCGCATGAGGGCCCTACCC
78866 IS [GA] taccacgggccaggctgactccagggtagggccctcatgcggaccagg[GA]agggcctcaccaggtgggatttcagcaccagcctcttggtgagagtgcag
78867 I S TCCTCTTTCCATTAATTTCTCTTCCAAGGCAGACGACTTCGATCT
78867 P T S CGCGCCGAGGATAAACTACCAAGATACCTGGAG
78867 P G S CGCGCCGAGGCTAAACTACCAAGATACCTGGAG

FIGURE 129D

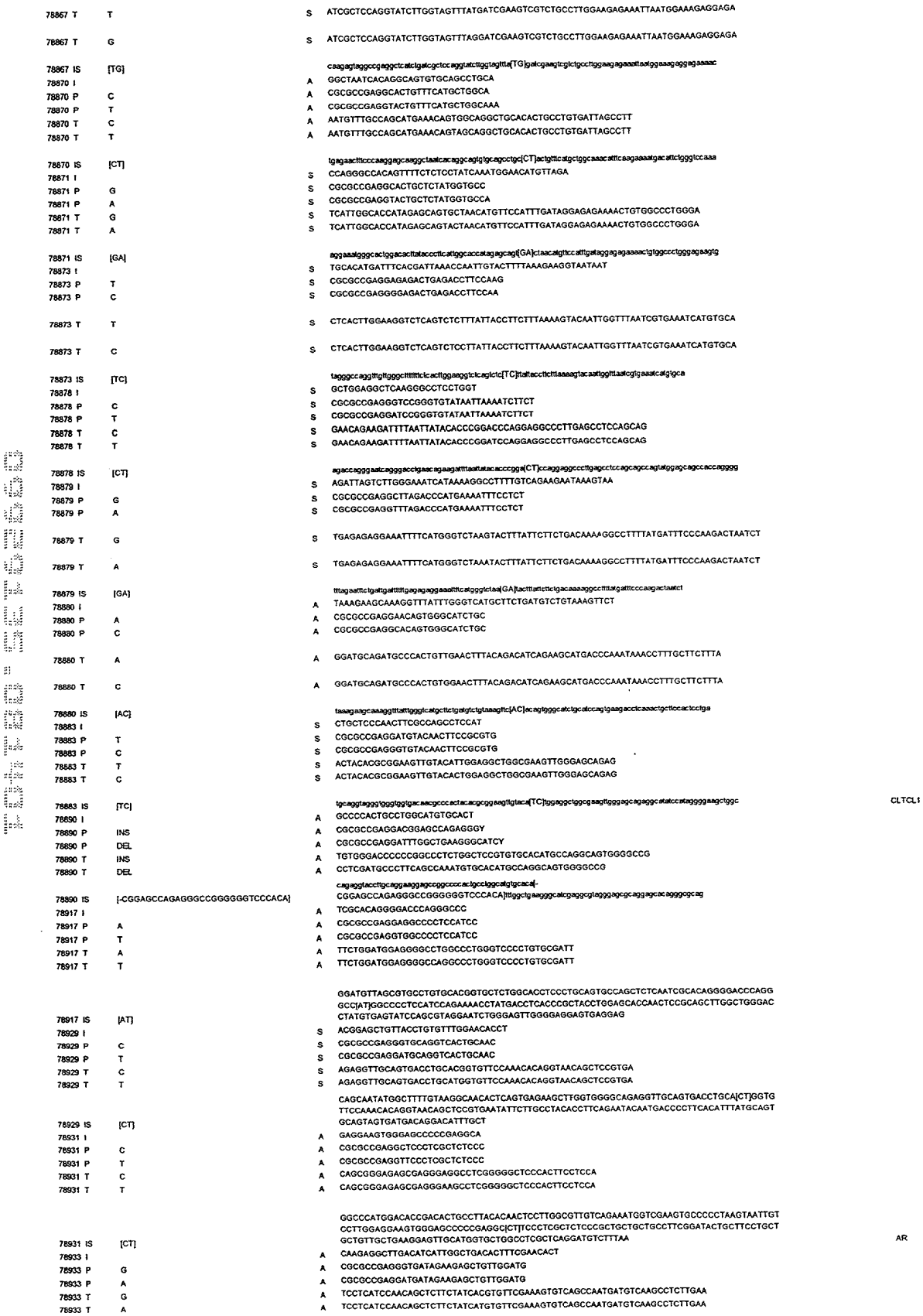

78867 T T S ATCGCTCCAGGTATCTTGGTAGTTTATGATCGAAGTCGTCTGCCTTGGAAGAGAAATTAATGGAAAGAGGAGA
78867 T G S ATCGCTCCAGGTATCTTGGTAGTTTAGGATCGAAGTCGTCTGCCTTGGAAGAGAAATTAATGGAAAGAGGAGA
78867 IS [TG] caagagtaggccgaggctcatclgatcgctccaggtatcttggtagtttal[TG]gatcgaagtcgtctgccttggaagagaaattaatggaaagaggagaaaac
78870 I A GGCTAATCACAGGCAGTGTGCAGCCTGCA
78870 P C A CGCGCCGAGGCACTGTTTCATGCTGGCA
78870 P T A CGCGCCGAGGTACTGTTTCATGCTGGCAAA
78870 T C A AATGTTTGCCAGCATGAAACAGTAGCAGGCTGCACACTGCCTGTGATTAGCCTT
78870 T T A AATGTTTGCCAGCATGAAACAGTAGCAGGCTGCACACTGCCTGTGATTAGCCTT
78870 IS [CT] tgagaacttcccaaggagcaaggctaatcacaggcagtgtgcagcctgc[CT]actgttcatgctggcaaacatttcaagaaaatgacatctgggtccaaa
78871 I S CCAGGGCCACAGTTTTCTCTCCTATCAAATGGAACATGTTAGA
78871 P G S CGCGCCGAGGCACTGCTCTATGGTGCC
78871 P A S CGCGCCGAGGTACTGCTCTATGGTGCCA
78871 T G S TCATTGGCACCATAGAGCAGTGCTAACATGTTCCATTTGATAGGAGAGAAAACTGTGGCCCTGGGA
78871 T A S TCATTGGCACCATAGAGCAGTACTAACATGTTCCATTTGATAGGAGAGAAAACTGTGGCCCTGGGA
78871 IS [GA] aggaaatgggcactggacacttataccctlcattggcaccatagagcagc[GA]ctaacatgttccatttgataggagagaaaactgtggccctgggagaagtg
78873 I S TGCACATGATTTCACGATTAAACCAATTGTACTTTTAAAGAAGGTAATAAT
78873 P T S CGCGCCGAGGAGAGACTGAGACCTTCCAAG
78873 P C S CGCGCCGAGGGGAGACTGAGACCTTCCAA
78873 T T S CTCACTTGGAAGGTCTCAGTCTCTTTATTACCTTCTTTAAAAGTACAATTGGTTTAATCGTGAAATCATGTGCA
78873 T C S CTCACTTGGAAGGTCTCAGTCTCCTTATTACCTTCTTTAAAAGTACAATTGGTTTAATCGTGAAATCATGTGCA
78873 IS [TC] tagggccaggttgtgtgggctttttctcacttggaaggtctcagtctc[TC]ttattaccttctttaaaagtacaattggttaatcgtgaaatcatgtgca
78878 I S GCTGGAGGCTCAAGGGCCTCCTGGT
78878 P C S CGCGCCGAGGGTCCGGGTGTATAATTAAAATCTTCT
78878 P T S CGCGCCGAGGATCCGGGTGTATAATTAAAATCTTCT
78878 T C S GAACAGAAGATTTTAATTATACACCCGGACCCAGGAGGCCCTTGAGCCTCCAGCAG
78878 T T S GAACAGAAGATTTTAATTATACACCCGGATCCAGGAGGCCCTTGAGCCTCCAGCAG
78878 IS [CT] agaccagggaatcagggacctgaacagaagatttaattatatacacccgga[CT]ccaggaggcccttgagcctccagcagccagtatggagcagccaccagggg
78879 I S AGATTAGTCTTGGGAAATCATAAAAGGCCTTTTGTCAGAAGAATAAAGTAA
78879 P G S CGCGCCGAGGCTTAGACCCATGAAAATTTCCTCT
78879 P A S CGCGCCGAGGTTTAGACCCATGAAAATTTCCTCT
78879 T G S TGAGAGAGGAAATTTTCATGGGTCTAAGTACTTTATTCTTCTGACAAAAGGCCTTTTATGATTTCCCAAGACTAATCT
78879 T A S TGAGAGAGGAAATTTTCATGGGTCTAAATACTTTATTCTTCTGACAAAAGGCCTTTTATGATTTCCCAAGACTAATCT
78879 IS [GA] tttagaatttctgatgatttttgagagaggaaaatttcatgggtctaa[GA]tacttatttcttctgacaaaaggccttttatgatttcccaagactaatct
78880 I A TAAAGAAGCAAAGGTTTATTTGGGTCATGCTTCTGATGTCTGTAAAGTTCT
78880 P A A CGCGCCGAGGAACAGTGGGCATCTGC
78880 P C A CGCGCCGAGGCACAGTGGGCATCTGC
78880 T A A GGATGCAGATGCCCACTGTTGAACTTTACAGACATCAGAAGCATGACCCAAATAAACCTTTGCTTCTTTA
78880 T C A GGATGCAGATGCCCACTGTGGAACTTTACAGACATCAGAAGCATGACCCAAATAAACCTTTGCTTCTTTA
78880 IS [AC] taaagaagcaaaggtttatttgggtcatgcttctgatgtctgtaaagttc[AC]acagtgggcatctgcatccagtgaagacctcaaactgctlccactcctga
78883 I S CTGCTCCCAACTTCGCCAGCCTCCAT
78883 P T S CGCGCCGAGGATGTACAACTTCCGCGTG
78883 P C S CGCGCCGAGGGTGTACAACTTCCGCGTG
78883 T T S ACTACACGCGGAAGTTGTACATTGGAGGCTGGCGAAGTTGGGAGCAGAG
78883 T C S ACTACACGCGGAAGTTGTACACTGGAGGCTGGCGAAGTTGGGAGCAGAG
78883 IS [TC] tgcaggtagggtgggtggtgacaacgccctactacacgcggaagttgtaca[TC]tggaggctggcgaagtgggagcagaggcatatcccatagggaagctggc CLTCL1
78890 I A GCCCCACTGCCTGGCATGTGCACT
78890 P INS A CGCGCCGAGGACGGAGCCAGAGGGY
78890 P DEL A CGCGCCGAGGATTTGGCTGAAGGGCATCY
78890 T INS A TGTGGGACCCCCCGGCCCTCTGGCTCCGTGTGCACATGCCAGGCAGTGGGGCCG
78890 T DEL A CCTCGATGCCCTTCAGCCAAATGTGCACATGCCAGGCAGTGGGGCCG
78890 IS [-CGGAGCCAGAGGGCCGGGGGGTCCCACA] cagaggtacttgcaggaaggagccggcccccactgccctggcatgtgcaca[-CGGAGCCAGAGGGCCGGGGGGTCCCACA]ttggctgaagggcatcgaggcgtagggagcgcaggagcacagggcgcag
78917 I A TCGCACAGGGGACCCAGGGCCC
78917 P A A CGCGCCGAGGAGGCCCCTCCATCC
78917 P T A CGCGCCGAGGTGGCCCCTCCATCC
78917 T A A TTCTGGATGGAGGGGCCTGGCCCTGGGTCCCCTGTGCGATT
78917 T T A TTCTGGATGGAGGGGCCAGGCCCTGGGTCCCCTGTGCGATT
78917 IS [AT] GGATGTTAGCGTGCCTGTGCACGGTGCTCTGGCACCTCCCTGCAGTGCCAGCTCTCAATCGCACAGGGGACCCAGG GCC[AT]GGCCCCTCCATCCAGAAAACCTATGACCTCACCCGCTACCTGGAGCACCAACTCCGCAGCTTGGCTGGGAC CTATGTGAGTATCCAGCGTAGGAATCTGGGAGTTGGGGAGGAGTGAGGAG
78929 I S ACGGAGCTGTTACCTGTGTTTGGAACACCT
78929 P C S CGCGCCGAGGGTGCAGGTCACTGCAAC
78929 P T S CGCGCCGAGGATGCAGGTCACTGCAAC
78929 T C S AGAGGTTGCAGTGACCTGCACGGTGTTCCAAACACAGGTAACAGCTCCGTGA
78929 T T S AGAGGTTGCAGTGACCTGCATGGTGTTCCAAACACAGGTAACAGCTCCGTGA
78929 IS [CT] CAGCAATATGGCTTTTGTAAGGCAACACTCAGTGAGAAGCTTGGTGGGGCAGAGGTTGCAGTGACCTGCA[CT]GGTG TTCCAAACACAGGTAACAGCTCCGTGAATATTCTTGCCTACACCTTCAGAATACAATGACCCCTTCACATTTATGCAGT GCAGTAGTGATGACAGGACATTTGCT
78931 I A GAGGAAGTGGGAGCCCCCGAGGCA
78931 P C A CGCGCCGAGGCTCCCTCGCTCTCCC
78931 P T A CGCGCCGAGGTTCCCTCGCTCTCCC
78931 T C A CAGCGGGAGAGCGAGGGAGGCCTCGGGGGCTCCCACTTCCTCCA
78931 T T A CAGCGGGAGAGCGAGGGAAGCCTCGGGGGCTCCCACTTCCTCCA
78931 IS [CT] GGCCCATGGACACCGACACTGCCTTACACAACTCCTTGGCGTTGTCAGAAATGGTCGAAGTGCCCCCTAAGTAATTGT CCTTGGAGGAAGTGGGAGCCCCCCGAGGC[CT]TCCCTCGCTCTCCCGCTGCTGCTGCCTTCGGATACTGCTTCCTGCT GCTGTTGCTGAAGGAGTTGCATGGTGCTGGCCTCGCTCAGGATGTCTTTAA AR
78933 I A CAAGAGGCTTGACATCATTGGCTGACACTTTCGAACACT
78933 P G A CGCGCCGAGGGTGATAGAAGAGCTGTTGGATG
78933 P A A CGCGCCGAGGATGATAGAAGAGCTGTTGGATG
78933 T G A TCCTCATCCAACAGCTCTTCTATCACGTGTTCGAAAGTGTCAGCCAATGATGTCAAGCCTCTTGAA
78933 T A A TCCTCATCCAACAGCTCTTCTATCATGTGTTCGAAAGTGTCAGCCAATGATGTCAAGCCTCTTGAA

FIGURE 129D

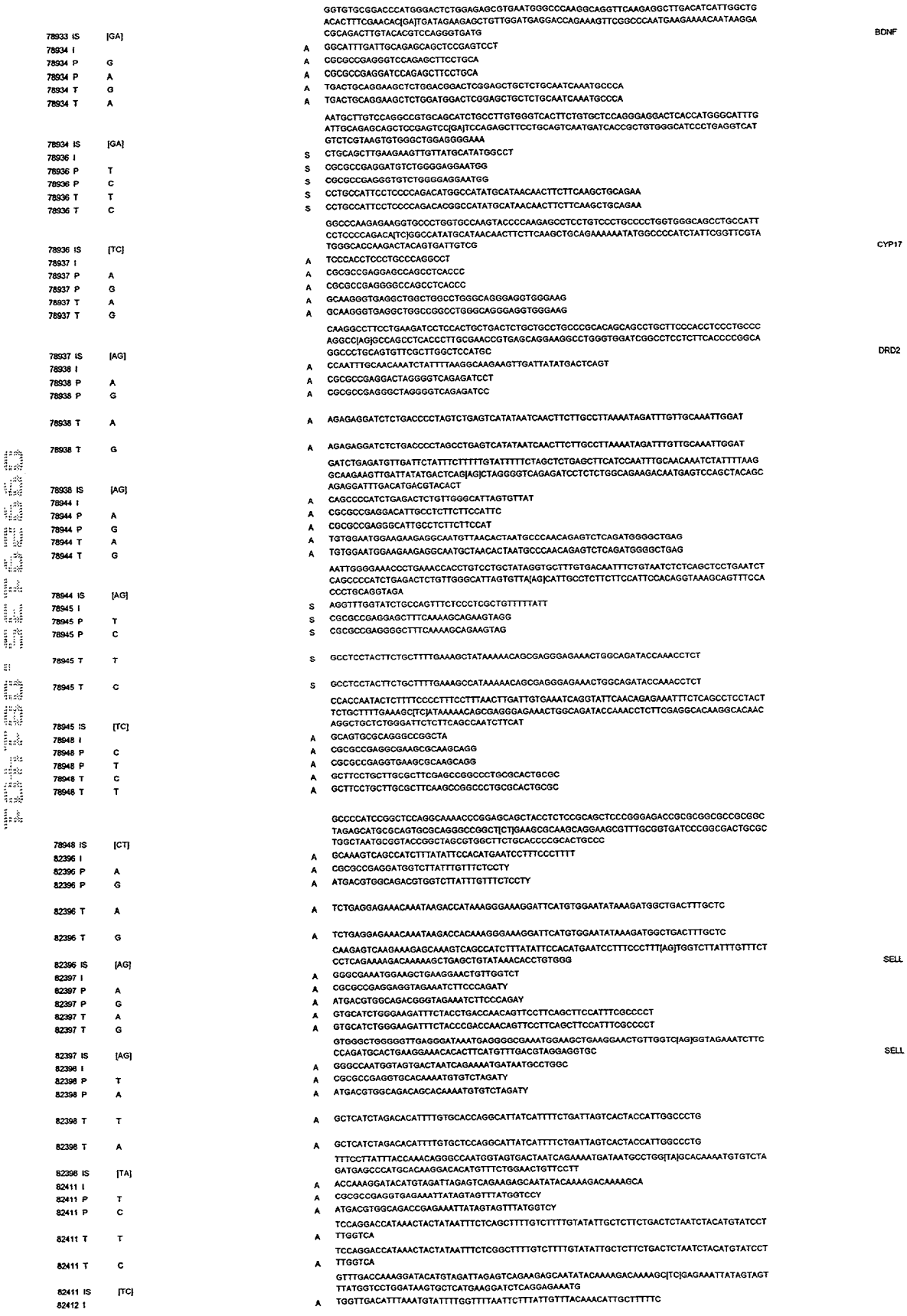


FIGURE 129D

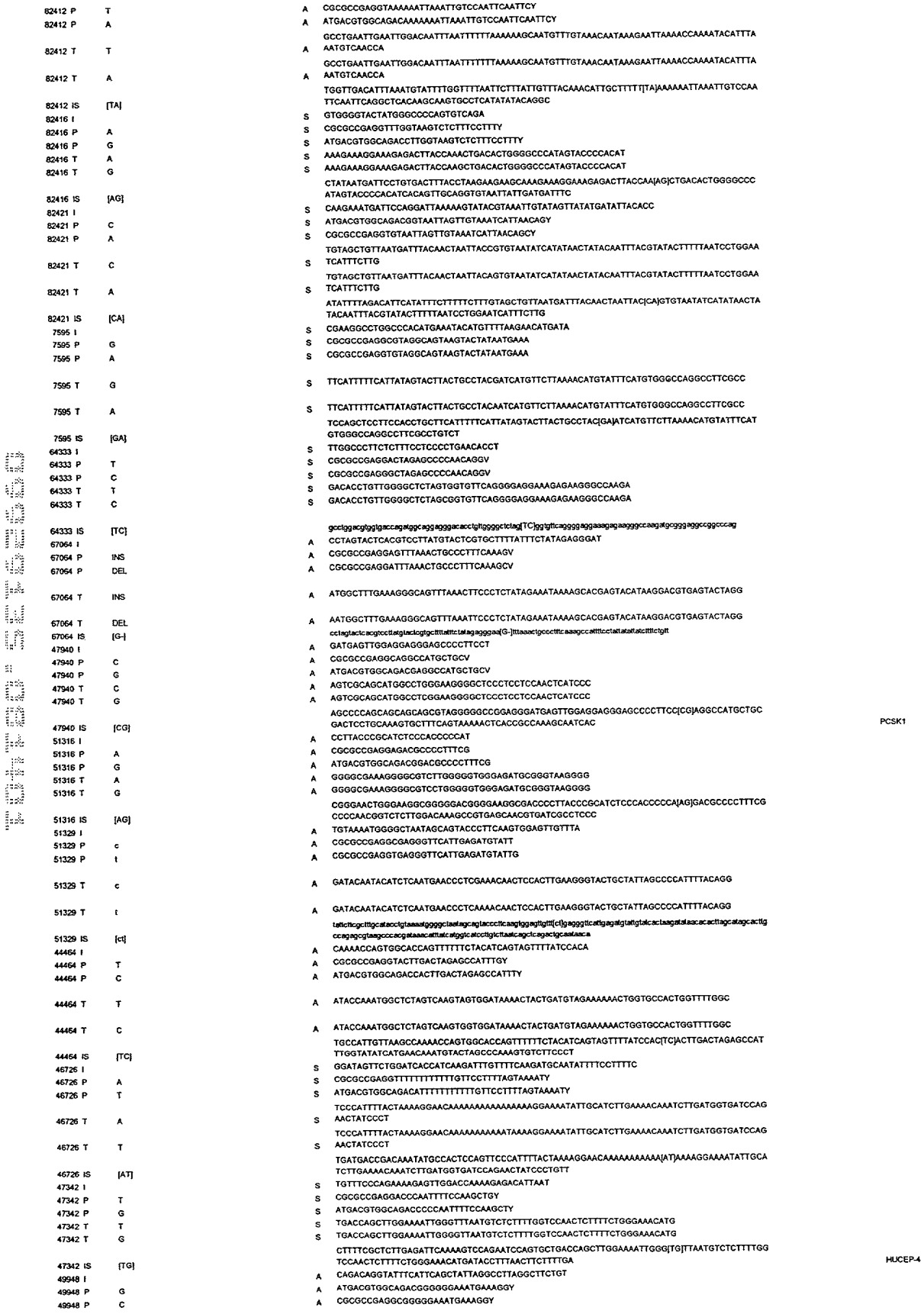

82412 P T A CGCGCCGAGGTAAAAAATTAAATTGTCCAATTCAATTCY
82412 P A A ATGACGTGGCAGACAAAAAAATTAAATTGTCCAATTCAATTCY
GCCTGAATTGAATTGGACAATTTAATTTTTTAAAAAAGCAATGTTTGTAAACAATAAAGAATTAAAACCAAAATACATTTA
82412 T T A AATGTCAACCA
GCCTGAATTGAATTGGACAATTTAATTTTTTTAAAAAGCAATGTTTGTAAACAATAAAGAATTAAAACCAAAATACATTTA
82412 T A A AATGTCAACCA
TGGTTGACATTTAAATGTATTTTGGTTTTAATTCTTTATTGTTTACAAACATTGCTTTTT[TA]AAAAAATTAAATTGTCCAA
82412 IS [TA] TTCAATTCAGGCTCACAAGCAAGTGCCTCATATATACAGGC
82416 I S GTGGGGTACTATGGGCCCCAGTGTCAGA
82416 P A S CGCGCCGAGGTTTGGTAAGTCTCTTTCCTTTY
82416 P G S ATGACGTGGCAGACCTTGGTAAGTCTCTTTCCTTTY
82416 T A S AAAGAAAGGAAAGAGACTTACCAAACTGACACTGGGGCCCATAGTACCCCACAT
82416 T G S AAAGAAAGGAAAGAGACTTACCAAGCTGACACTGGGGCCCATAGTACCCCACAT
CTATAATGATTCCTGTGACTTTACCTAAGAAGAAGCAAAGAAAGGAAAGAGACTTACCAA[AG]CTGACACTGGGGCCC
82416 IS [AG] ATAGTACCCCACATCACAGTTGCAGGTGTAATTATTGATGATTTC
82421 I S CAAGAAATGATTCCAGGATTAAAAAGTATACGTAAATTGTATAGTTATATGATATTACACC
82421 P C S ATGACGTGGCAGACGGTAATTAGTTGTAAATCATTAACAGY
82421 P A S CGCGCCGAGGTGTAATTAGTTGTAAATCATTAACAGCY
TGTAGCTGTTAATGATTTACAACTAATTACCGTGTAATATCATATAACTATACAATTTACGTATACTTTTTAATCCTGGAA
82421 T C S TCATTTCTTG
TGTAGCTGTTAATGATTTACAACTAATTACAGTGTAATATCATATAACTATACAATTTACGTATACTTTTTAATCCTGGAA
82421 T A S TCATTTCTTG
ATATTTTAGACATTCATATTTCTTTTTCTTTGTAGCTGTTAATGATTTACAACTAATTAC[CA]GTGTAATATCATATAACTA
82421 IS [CA] TACAATTTACGTATACTTTTTAATCCTGGAATCATTTCTTG
7595 I S CGAAGGCCTGGCCCACATGAAATACATGTTTTAAGAACATGATA
7595 P G S CGCGCCGAGGCGTAGGCAGTAAGTACTATAATGAAA
7595 P A S CGCGCCGAGGTGTAGGCAGTAAGTACTATAATGAAA
7595 T G S TTCATTTTTCATTATAGTACTTACTGCCTACGATCATGTTCTTAAAACATGTATTTCATGTGGGCCAGGCCTTCGCC
7595 T A S TTCATTTTTCATTATAGTACTTACTGCCTACAATCATGTTCTTAAAACATGTATTTCATGTGGGCCAGGCCTTCGCC
TCCAGCTCCTTCCACCTGCTTCATTTTTCATTATAGTACTTACTGCCTAC[GA]ATCATGTTCTTAAAACATGTATTTCAT
7595 IS [GA] GTGGGCCAGGCCTTCGCCTGTCT
64333 I S TTGGCCCTTCTCTTTCCTCCCCTGAACACCT
64333 P T S CGCGCCGAGGACTAGAGCCCCAACAGGV
64333 P C S CGCGCCGAGGGCTAGAGCCCCAACAGGV
64333 T T S GACACCTGTTGGGGCTCTAGTGGTGTTCAGGGGAGGAAAGAGAAGGGCCAAGA
64333 T C S GACACCTGTTGGGGCTCTAGCGGTGTTCAGGGGAGGAAAGAGAAGGGCCAAGA
gcctggacgtggtgaccagatggcaggagggacacctgtggggctctag[TC]ggtgttcaggggaggaaagagaagggccaagatgcgggaggccgggcccag
64333 IS [TC]
67064 I A CCTAGTACTCACGTCCTTATGTACTCGTGCTTTTATTTCTATAGAGGGAT
67064 P INS A CGCGCCGAGGAGTTTAAACTGCCCTTTCAAAGV
67064 P DEL A CGCGCCGAGGATTTAAACTGCCCTTTCAAAGCV
67064 T INS A ATGGCTTTGAAAGGGCAGTTTAAACTTCCCTCTATAGAAATAAAAGCACGAGTACATAAGGACGTGAGTACTAGG
67064 T DEL A AATGGCTTTGAAAGGGCAGTTTAAATTCCCTCTATAGAAATAAAAGCACGAGTACATAAGGACGTGAGTACTAGG
67064 IS [G-] cctagtactcacgtccttatgtactcgtgctttttttctatagagggaa[G-]tttaaactgcccttcaaagccatttccctatatatatctttttctgtt
47940 I A GATGAGTTGGAGGAGGGAGCCCCTTCCT
47940 P C A CGCGCCGAGGCAGGCCATGCTGCV
47940 P G A ATGACGTGGCAGACGAGGCCATGCTGCV
47940 T C A AGTCGCAGCATGGCCTGGGAAGGGGCTCCCTCCTCCAACTCATCCC
47940 T G A AGTCGCAGCATGGCCTCGGAAGGGGCTCCCTCCTCCAACTCATCCC
AGCCCCAGCAGCAGCAGCGTAGGGGGCCGGAGGGATGAGTTGGAGGAGGGAGCCCCTTCC[CG]AGGCCATGCTGC
47940 IS [CG] GACTCCTGCAAAGTGCTTTCAGTAAAAACTCACCGCCAAAGCAATCAC PCSK1
51316 I A CCTTACCCGCATCTCCCACCCCCAT
51316 P A A CGCGCCGAGGAGACGCCCCTTTCG
51316 P G A ATGACGTGGCAGACGGACGCCCCTTTCG
51316 T A A GGGGCGAAAGGGGCGTCTTGGGGGTGGGAGATGCGGGTAAGGGG
51316 T G A GGGGCGAAAGGGGCGTCCTGGGGGTGGGAGATGCGGGTAAGGGG
CGGGAACTGGGAAGGCGGGGGACGGGGAAGGCGACCCCTTACCCGCATCTCCCACCCCCA[AG]GACGCCCCTTTCG
51316 IS [AG] CCCCAACGGTCTCTTGGACAAAGCCGTGAGCAACGTGATCGCCTCCC
51329 I A TGTAAAATGGGGCTAATAGCAGTACCCTTCAAGTGGAGTTGTTTA
51329 P c A CGCGCCGAGGCGAGGGTTCATTGAGATGTATT
51329 P t A CGCGCCGAGGTGAGGGTTCATTGAGATGTATTG
51329 T c A GATACAATACATCTCAATGAACCCTCGAAACAACTCCACTTGAAGGGTACTGCTATTAGCCCCATTTTACAGG
51329 T t A GATACAATACATCTCAATGAACCCTCAAAACAACTCCACTTGAAGGGTACTGCTATTAGCCCCATTTTACAGG
tatictlcgcttlcatacctgtaaaatggggctaatagcagtaccctlcaagtggagttgtt[ct]gagggttcattgagatgtatgtatcactaagatatatacacactagcatagcactlg
51329 IS [ct] ccagagcgtaagcccacgataaacatttatcatggtcatcctlgtcttaatcagctcagactgcaatacca
44464 I A CAAAACCAGTGGCACCAGTTTTTTCTACATCAGTAGTTTTATCCACA
44464 P T A CGCGCCGAGGTACTTGACTAGAGCCATTTGY
44464 P C A ATGACGTGGCAGACCACTTGACTAGAGCCATTTY
44464 T T A ATACCAAATGGCTCTAGTCAAGTAGTGGATAAAACTACTGATGTAGAAAAAACTGGTGCCACTGGTTTTGGC
44464 T C A ATACCAAATGGCTCTAGTCAAGTGGTGGATAAAACTACTGATGTAGAAAAAACTGGTGCCACTGGTTTTGGC
TGCCATTGTTAAGCCAAAACCAGTGGCACCAGTTTTTTCTACATCAGTAGTTTTATCCAC[TC]ACTTGACTAGAGCCAT
44464 IS [TC] TTGGTATATCATGAACAAATGTACTAGCCCAAAGTGTCTTCCCT
46726 I S GGATAGTTCTGGATCACCATCAAGATTTGTTTTCAAGATGCAATATTTTCCTTTTC
46726 P A S CGCGCCGAGGTTTTTTTTTTTTGTTCCTTTTAGTAAAATY
46726 P T S ATGACGTGGCAGACATTTTTTTTTTTGTTCCTTTTAGTAAAATY
TCCCATTTTACTAAAAGGAACAAAAAAAAAAAAAAAAAGGAAAATATTGCATCTTGAAAACAAATCTTGATGGTGATCCAG
46726 T A S AACTATCCCT
TCCCATTTTACTAAAAGGAACAAAAAAAAAAAATAAAAGGAAAATATTGCATCTTGAAAACAAATCTTGATGGTGATCCAG
46726 T T S AACTATCCCT
TGATGACCGACAAATATGCCACTCCAGTTCCCATTTTACTAAAAGGAACAAAAAAAAAA[AT]AAAAGGAAAATATTGCA
46726 IS [AT] TCTTGAAAACAAATCTTGATGGTGATCCAGAACTATCCCTGTT
47342 I S TGTTTCCCAGAAAAGAGTTGGACCAAAAGAGACATTAAT
47342 P T S CGCGCCGAGGACCCAATTTTCCAAGCTGY
47342 P G S ATGACGTGGCAGACCCCCAATTTTCCAAGCTY
47342 T T S TGACCAGCTTGGAAAATTGGGTTTAATGTCTCTTTTGGTCCAACTCTTTTCTGGGAAACATG
47342 T G S TGACCAGCTTGGAAAATTGGGGTTAATGTCTCTTTTGGTCCAACTCTTTTCTGGGAAACATG
CTTTTCGCTCTTGAGATTCAAAAGTCCAGAATCCAGTGCTGACCAGCTTGGAAAATTGGG[TG]TTAATGTCTCTTTTGG
47342 IS [TG] TCCAACTCTTTTCTGGGAAACATGATACCTTTAACTTCTTTTGA HUCEP-4
49948 I A CAGACAGGTATTTCATTCAGCTATTAGGCCTTAGGCTTCTGT
49948 P G A ATGACGTGGCAGACGGGGGGAAATGAAAGGY
49948 P C A CGCGCCGAGGCGGGGGAAATGAAAGGY

FIGURE 129D

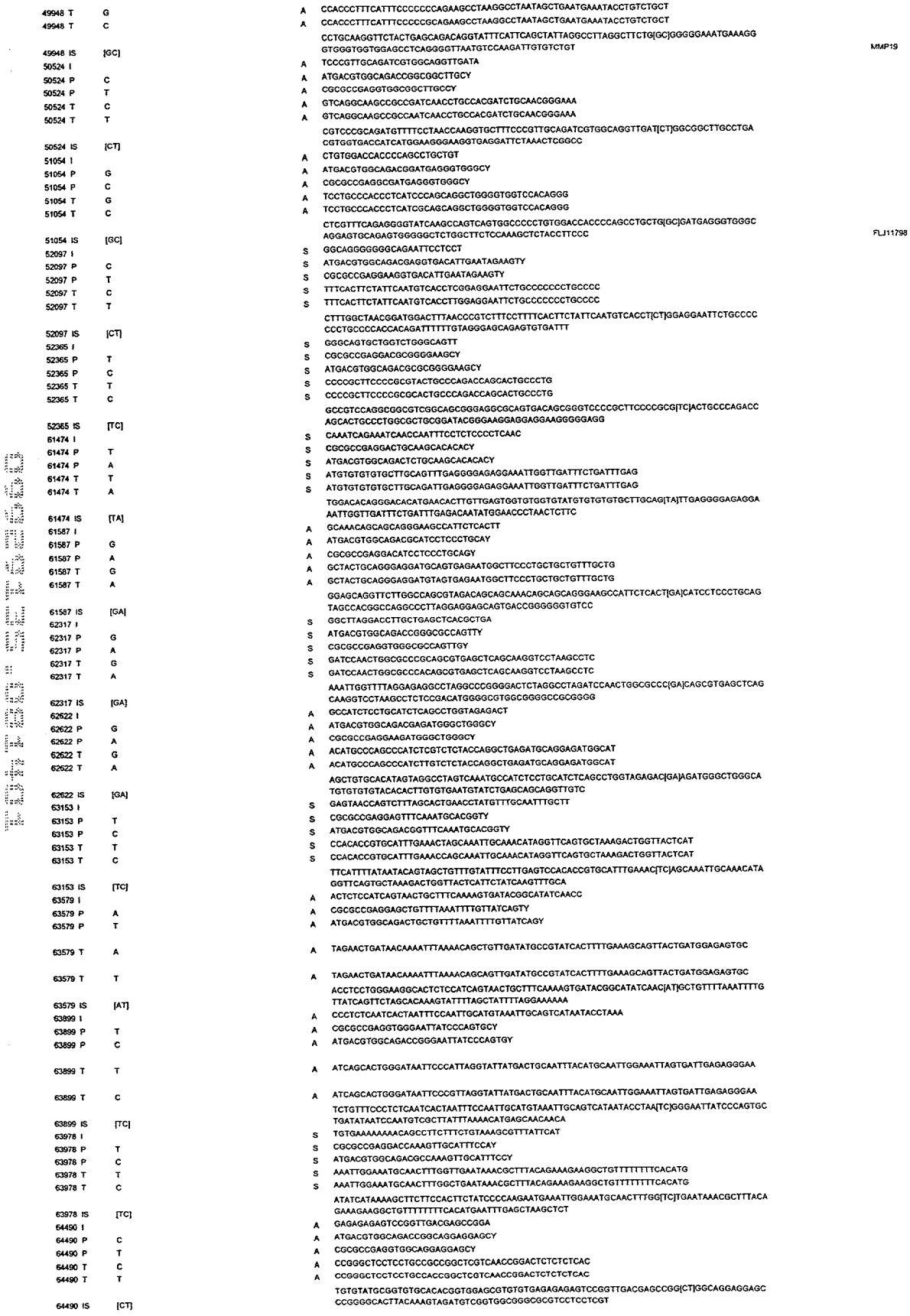
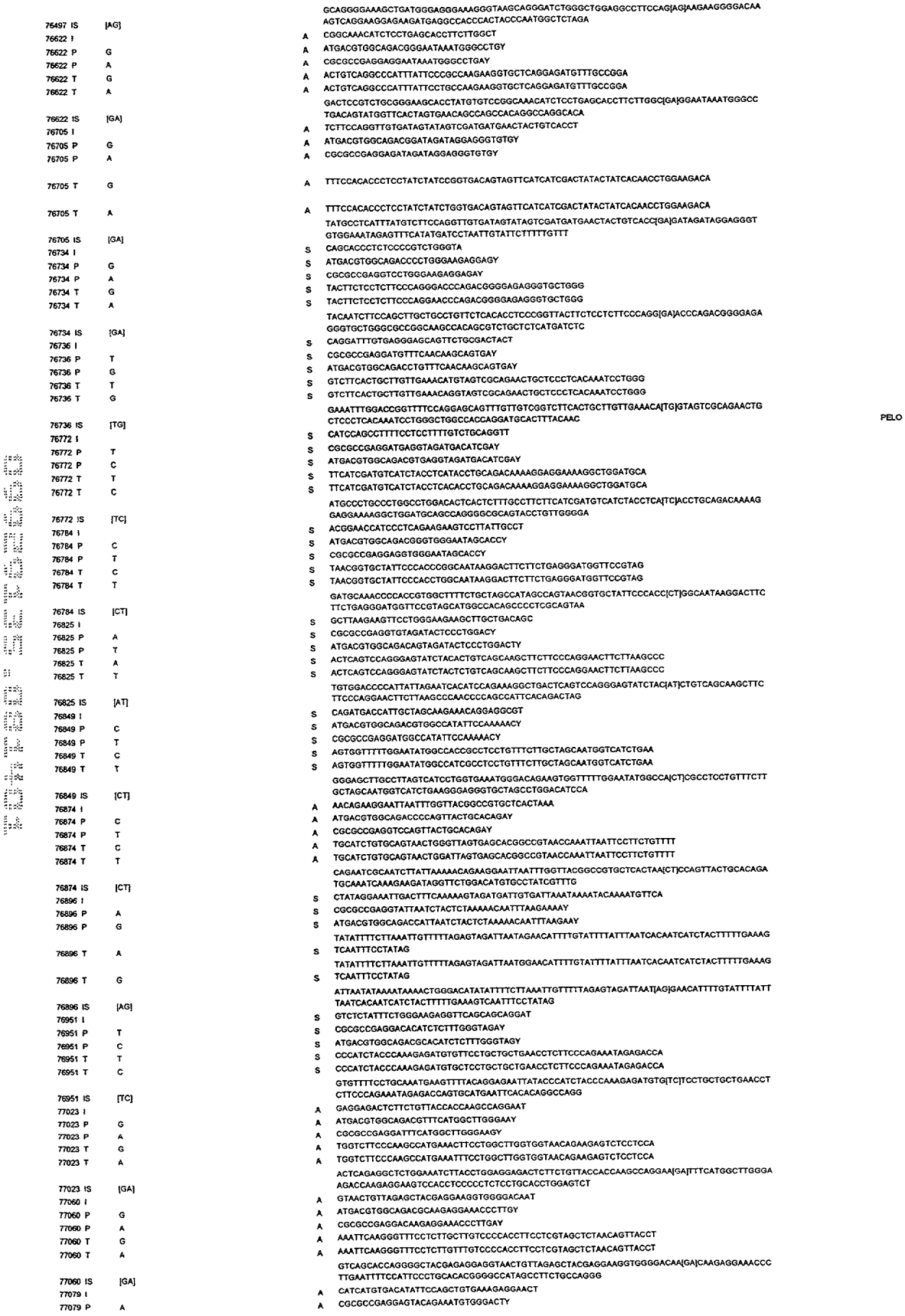

49948 T G
49948 T C
49948 IS [GC]
50524 I
50524 P C
50524 P T
50524 T C
50524 T T
50524 IS [CT]
51054 I
51054 P G
51054 P C
51054 T G
51054 T C
51054 IS [GC]
52097 I
52097 P C
52097 P T
52097 T C
52097 T T
52097 IS [CT]
52365 I
52365 P T
52365 P C
52365 T T
52365 T C
52365 IS [TC]
61474 I
61474 P T
61474 P A
61474 T T
61474 T A
61474 IS [TA]
61587 I
61587 P G
61587 P A
61587 T G
61587 T A
61587 IS [GA]
62317 I
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62317 P A
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62622 I
62622 P G
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62622 T G
62622 T A
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63153 I
63153 P T
63153 P C
63153 T T
63153 T C
63153 IS [TC]
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63579 P A
63579 P T
63579 T A
63579 T T
63579 IS [AT]
63899 I
63899 P T
63899 P C
63899 T T
63899 T C
63899 IS [TC]
63978 I
63978 P T
63978 P C
63978 T T
63978 T C
63978 IS [TC]
64490 I
64490 P C
64490 P T
64490 T C
64490 T T
64490 IS [CT]
A CCACCCTTTCATTTCCCCCCCAGAAGCCTAAGGCCTAATAGCTGAATGAAATACCTGTCTGCT
A CCACCCTTTCATTTCCCCCCGCAGAAGCCTAAGGCCTAATAGCTGAATGAAATACCTGTCTGCT
CCTGCAAGGTTCTACTGAGCAGACAGGTATTTCATTCAGCTATTAGGCCTTAGGCTTCTG[GC]GGGGGAAATGAAAGG
GTGGGTGGTGGAGCCTCAGGGGTTAATGTCCAAGATTGTGTCTGT
A TCCCGTTGCAGATCGTGGCAGGTTGATA
A ATGACGTGGCAGACCGGCGGCTTGCCY
A CGCGCCGAGGTGGCGGCTTGCCY
A GTCAGGCAAGCCGCCGATCAACCTGCCACGATCTGCAACGGGAAA
A GTCAGGCAAGCCGCCAATCAACCTGCCACGATCTGCAACGGGAAA
CGTCCCGCAGATGTTTTCCTAACCAAGGTGCTTTCCCGTTGCAGATCGTGGCAGGTTGAT[CT]GGCGGCTTGCCTGA
CGTGGTGACCATCATGGAAGGGAAGGTGAGGATTCTAAACTCGGCC
A CTGTGGACCACCCCAGCCTGCTGT
A ATGACGTGGCAGACGGATGAGGGTGGGCY
A CGCGCCGAGGCGATGAGGGTGGGCY
A TCCTGCCCACCCTCATCCCAGCAGGCTGGGGTGGTCCACAGGG
A TCCTGCCCACCCTCATCGCAGCAGGCTGGGGTGGTCCACAGGG
CTCGTTTCAGAGGGGTATCAAGCCAGTCAGTGGCCCCCTGTGGACCACCCCAGCCTGCTG[GC]GATGAGGGTGGGC
AGGAGTGCAGAGTGGGGGCTCTGGCTTCTCCAAAGCTCTACCTTCCC
S GGCAGGGGGGGCAGAATTCCTCCT
S ATGACGTGGCAGACGAGGTGACATTGAATAGAAGTY
S CGCGCCGAGGAAGGTGACATTGAATAGAAGTY
S TTTCACTTCTATTCAATGTCACCTCGGAGGAATTCTGCCCCCCCTGCCCC
S TTTCACTTCTATTCAATGTCACCTTGGAGGAATTCTGCCCCCCCTGCCCC
CTTTGGCTAACGGATGGACTTTAACCCGTCTTTCCTTTTCACTTCTATTCAATGTCACCT[CT]GGAGGAATTCTGCCCC
CCCTGCCCCACCACAGATTTTTTGTAGGGAGCAGAGTGTGATTT
S GGGCAGTGCTGGTCTGGGCAGTT
S CGCGCCGAGGACGCGGGGAAGCY
S ATGACGTGGCAGACGCGCGGGGAAGCY
S CCCCGCTTCCCCGCGTACTGCCCAGACCAGCACTGCCCTG
S CCCCGCTTCCCCGCGCACTGCCCAGACCAGCACTGCCCTG
GCCGTCCAGGCGGCGTCGGCAGCGGGAGGCGCAGTGACAGCGGGTCCCCGCTTCCCCGCG[TC]ACTGCCCAGACC
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S CAAATCAGAAATCAACCAATTTCCTCTCCCCTCAAC
S CGCGCCGAGGACTGCAAGCACACACY
S ATGACGTGGCAGACTCTGCAAGCACACACY
S ATGTGTGTGTGCTTGCAGTTTGAGGGGAGAGGAAATTGGTTGATTTCTGATTTGAG
S ATGTGTGTGTGCTTGCAGATTGAGGGGAGAGGAAATTGGTTGATTTCTGATTTGAG
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A GCAAACAGCAGCAGGGAAGCCATTCTCACTT
A ATGACGTGGCAGACGCATCCTCCCTGCAY
A CGCGCCGAGGACATCCTCCCTGCAGY
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A GCTACTGCAGGGAGGATGTAGTGAGAATGGCTTCCCTGCTGCTGTTTGCTG
GGAGCAGGTTCTTGGCCAGCGTAGACAGCAGCAAACAGCAGCAGGGAAGCCATTCTCACT[GA]CATCCTCCCTGCAG
TAGCCACGGCCAGGCCCTTAGGAGGAGCAGTGACCGGGGGGTGTCC
S GGCTTAGGACCTTGCTGAGCTCACGCTGA
S ATGACGTGGCAGACCGGGCGCCAGTTY
S CGCGCCGAGGTGGGCGCCAGTTGY
S GATCCAACTGGCGCCCGCAGCGTGAGCTCAGCAAGGTCCTAAGCCTC
S GATCCAACTGGCGCCCACAGCGTGAGCTCAGCAAGGTCCTAAGCCTC
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A ATGACGTGGCAGACGAGATGGGCTGGGCY
A CGCGCCGAGGAAGATGGGCTGGGCY
A ACATGCCCAGCCCATCTCGTCTCTACCAGGCTGAGATGCAGGAGATGGCAT
A ACATGCCCAGCCCATCTTGTCTCTACCAGGCTGAGATGCAGGAGATGGCAT
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S GAGTAACCAGTCTTTAGCACTGAACCTATGTTTGCAATTTGCTT
S CGCGCCGAGGAGTTTCAAATGCACGGTY
S ATGACGTGGCAGACGGTTTCAAATGCACGGTY
S CCACACCGTGCATTTGAAACTAGCAAATTGCAAACATAGGTTCAGTGCTAAAGACTGGTTACTCAT
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TTCATTTTATAATACAGTAGCTGTTTGTATTTCCTTGAGTCCACACCGTGCATTTGAAAC[TC]AGCAAATTGCAAACATA
GGTTCAGTGCTAAAGACTGGTTACTCATTCTATCAAGTTTGCA
A ACTCTCCATCAGTAACTGCTTTCAAAAGTGATACGGCATATCAACC
A CGCGCCGAGGAGCTGTTTTAAATTTTGTTATCAGTY
A ATGACGTGGCAGACTGCTGTTTTAAATTTTGTTATCAGY
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A TAGAACTGATAACAAAATTTAAAACAGCAGTTGATATGCCGTATCACTTTTGAAAGCAGTTACTGATGGAGAGTGC
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TTATCAGTTCTAGCACAAAGTATTTTAGCTATTTTAGGAAAAAA
A CCCTCTCAATCACTAATTTCCAATTGCATGTAAATTGCAGTCATAATACCTAAA
A CGCGCCGAGGTGGGAATTATCCCAGTGCY
A ATGACGTGGCAGACCGGGAATTATCCCAGTGY
A ATCAGCACTGGGATAATTCCCATTAGGTATTATGACTGCAATTTACATGCAATTGGAAATTAGTGATTGAGAGGGAA
A ATCAGCACTGGGATAATTCCCGTTAGGTATTATGACTGCAATTTACATGCAATTGGAAATTAGTGATTGAGAGGGAA
TCTGTTTCCCTCTCAATCACTAATTTCCAATTGCATGTAAATTGCAGTCATAATACCTAA[TC]GGGAATTATCCCAGTGC
TGATATAATCCAATGTCGCTTATTTAAAACATGAGCAACAACA
S TGTGAAAAAAAACAGCCTTCTTTCTGTAAAGCGTTTATTCAT
S CGCGCCGAGGACCAAAGTTGCATTTCCAY
S ATGACGTGGCAGACGCCAAAGTTGCATTTCCY
S AAATTGGAAATGCAACTTTGGTTGAATAAACGCTTTACAGAAAGAAGGCTGTTTTTTTTCACATG
S AAATTGGAAATGCAACTTTGGCTGAATAAACGCTTTACAGAAAGAAGGCTGTTTTTTTTCACATG
ATATCATAAAAGCTTCTTCCACTTCTATCCCCAAGAATGAAATTGGAAATGCAACTTTGG[TC]TGAATAAACGCTTTACA
GAAAGAAGGCTGTTTTTTTTCACATGAATTTGAGCTAAGCTGT
A GAGAGAGAGTCCGGTTGACGAGCCGGA
A ATGACGTGGCAGACCGGCAGGAGGAGCY
A CGCGCCGAGGTGGCAGGAGGAGCY
A CCGGGCTCCTCCTGCCGCCGGCTCGTCAACCGGACTCTCTCTCAC
A CCGGGCTCCTCCTGCCACCGGCTCGTCAACCGGACTCTCTCTCAC
TGTGTATGCGGTGTGCACACGGTGGAGCGTGTGTGAGAGAGAGTCCGGTTGACGAGCCGG[CT]GGCAGGAGGAGC
CCGGGGCACTTACAAAGTAGATGTCGGTGGCGGGCGCGTCCTCCTCGT
MMP19
FLJ11798

FIGURE 129D

64930 I		A	CTCCCAGAGAGGATGCTGAAGCAGATTGAATCACTTA
64930 P	T	A	CGCGCCGAGGTAGGAGAAAAGCACACTTAGY
64930 P	C	A	ATGACGTGGCAGACCAGGAGAAAAGCACACTTAY
64930 T	T	A	GTGCCTAAGTGTGCTTTTCTCCTAAAGTGATTCAATCTGCTTCAGCATCCTCTCTGGGAGTG
64930 T	C	A	GTGCCTAAGTGTGCTTTTCTCCTGAAGTGATTCAATCTGCTTCAGCATCCTCTCTGGGAGTG
			TCAGAGCAGCACACTGGCACCCCACTCCCAGAGAGGATGCTGAAGCAGATTGAATCACTT[TC]AGGAGAAAAGCACA
64930 IS	[TC]		CTTAGGCACGAAGCCCTGGCTTTTCTTCTTCTTTCTTCTGTGTCTA
75789 I		A	TCTCAAGATCAAATGAAGTATGCTGCAGCAGTGATTTAAAACTGACAATAAA
75789 P	C	A	ATGACGTGGCAGACCAGTACCCCTGAACAGCY
75789 P	T	A	CGCGCCGAGGTAGTACCCCTGAACAGCY
75789 T	C	A	CAGTGCTGTTCAGGGGTACTGTTATTGTCAGTTTTAAATCACTGCTGCAGCATACTTCATTTGATCTTGAGACT
75789 T	T	A	CAGTGCTGTTCAGGGGTACTATTATTGTCAGTTTTAAATCACTGCTGCAGCATACTTCATTTGATCTTGAGACT
			CATGGCAAGTCTCAAGATCAAATGAAGTATGCTGCAGCAGTGATTTAAAACTGACAATAA[CT]AGTACCCCTGAACAGC
75789 IS	[CT]		ACTGCTCATGAAAAATCAAAGCAATAAACAACCAAAAACAACAA
75992 I		A	GGCTTTAATTTCTAGGACACCAGAGTCCCATCTCATAAAAAAAGGTAT
75992 P	G	A	ATGACGTGGCAGACGCATGAACTACCCAGAGY
75992 P	A	A	CGCGCCGAGGACATGAACTACCCAGAGCY
75992 T	G	A	TACAGCTCTGGGTAGTTCATGCTACCTTTTTTTTATGAGATGGGACTCTGGTGTCCTAGAAATTAAAGCCAA
75992 T	A	A	TACAGCTCTGGGTAGTTCATGTTACCTTTTTTTATGAGATGGGACTCTGGTGTCCTAGAAATTAAAGCCAA
			TACTTGGAATTTTGGCTTTAATTTCTAGGACACCAGAGTCCCATCTCATAAAAAAAGGTA[GA]CATGAACTACCCAGAG
75992 IS	[GA]		CTGTACCACTCATTCATTTATAAATGGTAAGGCAAGGTTAGCAG
76071 I		A	CGAAATCATAGTAGAAGGCTAGAACATATTCCTACTGGATATTAGATTAAAAATAAGA
76071 P	C	A	ATGACGTGGCAGACCTCGTCTTTAAGGCTCTAGY
76071 P	T	A	CGCGCCGAGGTTCGTCTTTAAGGCTCTAGY
76071 T	C	A	GTTGCTAGAGCCTTAAAGACGAGCTTATTTTTAATCTAATATCCAGTAGGAATATGTTCTAGCCTTCTACTATGATTTCG TG
76071 T	T	A	GTTGCTAGAGCCTTAAAGACGAACTTATTTTTAATCTAATATCCAGTAGGAATATGTTCTAGCCTTCTACTATGATTTCG TG
			TCACGAAATCATAGTAGAAGGCTAGAACATATTCCTACTGGATATTAGATTAAAAATAAG[CT]TCGTCTTTAAGGCTCTA
76071 IS	[CT]		GCAACAGGGACTGTCTATTCTGTCAGTCAGTGATGATTGGCAG
76106 I		S	GCTGATCCCTCCATTCGAAGCTGGTCCTGAAT
76106 P	T	S	CGCGCCGAGGAGTTCCTGGCAAAGACAY
76106 P	C	S	ATGACGTGGCAGACGGTTCCTGGCAAAGACY
76106 T	T	S	CATTTGTCTTTGCCAGGAACTTTCAGGACCAGCTTCGAATGGAGGGATCAGCCA
76106 T	C	S	CATTTGTCTTTGCCAGGAACCTTCAGGACCAGCTTCGAATGGAGGGATCAGCCA
			AATGGCACCAATTTCTCCTAAGACGTATTCATGTCTATCACATTTGTCTTTGCCAGGAAC[TC]TTCAGGACCAGCTTCG
76106 IS	[TC]		AATGGAGGGATCAGCCAGACAAACACCTATGACGCCCAGTATGA
76146 I		S	TGCTGATGGGGCGGGGTGGCT
76146 P	C	S	ATGACGTGGCAGACGTCAGGACGGCAGGY
76146 P	T	S	CGCGCCGAGGATCAGGACGGCAGGY
76146 T	C	S	GGCTCCTGCCGTCCTGACGCCACCCCGCCCCATCAGCACT
76146 T	T	S	GGCTCCTGCCGTCCTGATGCCACCCCGCCCCATCAGCACT
			TGGGGGGAGGAGACCCATGGACTTCACCCATACTCAGTGAGGGGGCTCCTGCCGTCCTGA[CT]GCCACCCCGCCCC
76146 IS	[CT]		ATCAGCACTTAAGCCACATGACACAAAGTCTGTACCGCACGGGAAAT
76178 I		S	GCACTCATCTTCCACACTTGAGCCCTGGTTT
76178 P	T	S	CGCGCCGAGGATCTCCACCCAGAGTCY
76178 P	C	S	ATGACGTGGCAGACGTCTCCACCCAGAGTCY
76178 T	T	S	AGGAGACTCTGGGTGGAGATAACCAGGGCTCAAGTGTGGAAGATGAGTGCAC
76178 T	C	S	AGGAGACTCTGGGTGGAGACAACCAGGGCTCAAGTGTGGAAGATGAGTGCAC
			GCCAAGTCAGTAGCCTCACAGAGATCTCTGGCTTTCTGCCAAGGAGACTCTGGGTGGAGA[TC]AACCAGGGCTCAAG
76178 IS	[TC]		TGTGGAAGATGAGTGCACAGTCACCAAACCAGGGGCACCTCTGCTT
76382 I		S	TCTGAACTGTAACAACTCTCAGAGGAGCATTGCCCT
76382 P	C	S	ATGACGTGGCAGACGTCAGACAGCAACTCAGY
76382 P	T	S	CGCGCCGAGGATCAGACAGCAACTCAGAY
76382 T	C	S	ATTCTCTGAGTTGCTGTCTGACGGGCAATGCTCCTCTGAGAGTTGTTACAGTTCAGACA
76382 T	T	S	ATTCTCTGAGTTGCTGTCTGATGGGCAATGCTCCTCTGAGAGTTGTTACAGTTCAGACA
			GGCATGGAAATCATTGAAATACCTGGTTGTTCTCTGGTTATTCTCTGAGTTGCTGTCTGA[CT]GGGCAATGCTCCTCT
76382 IS	[CT]		GAGAGTTGTTACAGTTCAGACATGGTAATGACTGGTTTTATACAG
76384 I		A	CCAGTGACTTTCTAGACTTTGAACATTAGAATCCACTCCCTGAAAT
76384 P	A	A	CGCGCCGAGGAAGTCACTCTCCTTTGTAACY
76384 P	G	A	ATGACGTGGCAGACGAGTCACTCTCCTTTGTAACY
76384 T	A	A	TCTAGTTACAAAGGAGAGTGACTTTTTCAGGGAGTGGATTCTAATGTTCAAAGTCTAGAAAGTCACTGGGG
76384 T	G	A	TCTAGTTACAAAGGAGAGTGACTCTTTCAGGGAGTGGATTCTAATGTTCAAAGTCTAGAAAGTCACTGGGG
			TGTTCTCTTTTCACCCCAGTGACTTTCTAGACTTTGAACATTAGAATCCACTCCCTGAAA[AG]AGTCACTCTCCTTTGTA
76384 IS	[AG]		ACTAGAGCAACAGCTATCCTTTGTCACCTTTATTTTTCTCTTT
76394 I		A	AGGGTACAAGAAACCTAGCCAACAGGACAGCAA
76394 P	T	A	CGCGCCGAGGTATCCTTGTCTTCAAAAATCCAY
76394 P	C	A	ATGACGTGGCAGACCATCCTTGTCTTCAAAAATCCY
76394 T	T	A	TGGGTGGATTTTTGAAGACAAGGATATGCTGTCCTGTTGGCTAGGTTTCTTGTACCCTAG
76394 T	C	A	TGGGTGGATTTTTGAAGACAAGGATGTGCTGTCCTGTTGGCTAGGTTTCTTGTACCCTAG
			CTAAGAGGCAAGAAAGCAGCTAACCCCTAGGGTACAAGAAACCTAGCCAACAGGACAGCA[TC]ATCCTTGTCTTCAAA
76394 IS	[TC]		AATCCACCCAGTGGGATCTAAACAGAGATCAGTAAATACTGTCCG
76439 I		S	CGTGGGGGCCCCGCGCT
76439 P	C	S	ATGACGTGGCAGACGTGTGGCGGTCTCGY
76439 P	G	S	CGCGCCGAGGCTGTGGCGGTCTCGY
76439 T	C	S	CCCCCGAGACCGCCACACGCGCGGGGCCCCCACGTC
76439 T	G	S	CCCCCGAGACCGCCACAGGCGCGGGGCCCCCACGTC
			TCCACGCTCGCTCGCGCGGGAGCCACGCCTCCTCTCCCCCCCGCCCCCGAGACCGCCACA[CG]GCGCGGGGCCCC
76439 IS	[CG]		CACGTCTCCAAGCGGCACTGGAAGGATTCCTCTCCGTCCCGCCAGGGG
76487 I		S	CTGAGGAAAAACAAAAGGTTCTGAAAGCATATTTTTCCTACATTTATTATTTC
76487 P	A	S	CGCGCCGAGGTTGCTACTTACTTGATTTGATTTCY
76487 P	C	S	ATGACGTGGCAGACGTGCTACTTACTTGATTTGATTTY
			GCCTGAAATCAAATCAAGTAAGTAGCAAAAATAATAAATGTAGGAAAAATATGCTTTCAGAACCTTTTGTTTTTCCTCAG
76487 T	A	S	GG
			GCCTGAAATCAAATCAAGTAAGTAGCACAAATAATAAATGTAGGAAAAATATGCTTTCAGAACCTTTTGTTTTTCCTCAG
76487 T	C	S	GG
			GTATGAAGACCACAGAATAGAACAAGCTGACTGGCCTGAAATCAAATCAAGTAAGTAGCA[AC]AAATAATAAATGTAGG
76487 IS	[AC]		AAAAATATGCTTTCAGAACCTTTTGTTTTTCCTCAGGGAAATGA
76497 I		A	GGGATCTGGGCTGGAGGCCTTCCAGT
76497 P	A	A	CGCGCCGAGGAAAGAAGGGGACAAAGTCY
76497 P	G	A	ATGACGTGGCAGACGAAGAAGGGGACAAAGTCY
76497 T	A	A	TCCTGACTTTGTCCCCTTCTTTCTGGAAGGCCTCCAGCCCAGATCCCTG
76497 T	G	A	TCCTGACTTTGTCCCCTTCTTCCTGGAAGGCCTCCAGCCCAGATCCCTG

FIGURE 129D



PELO

FIGURE 129D

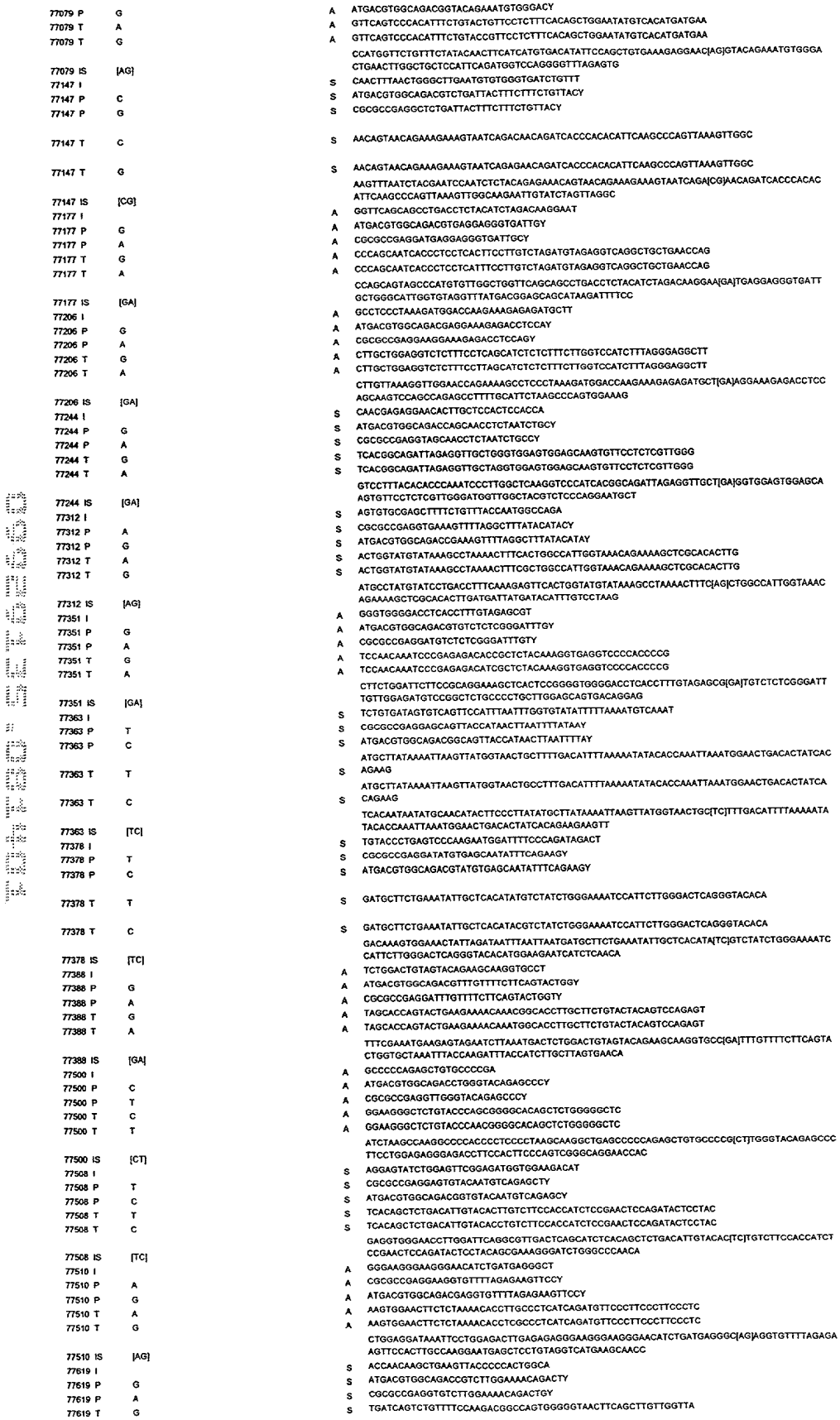
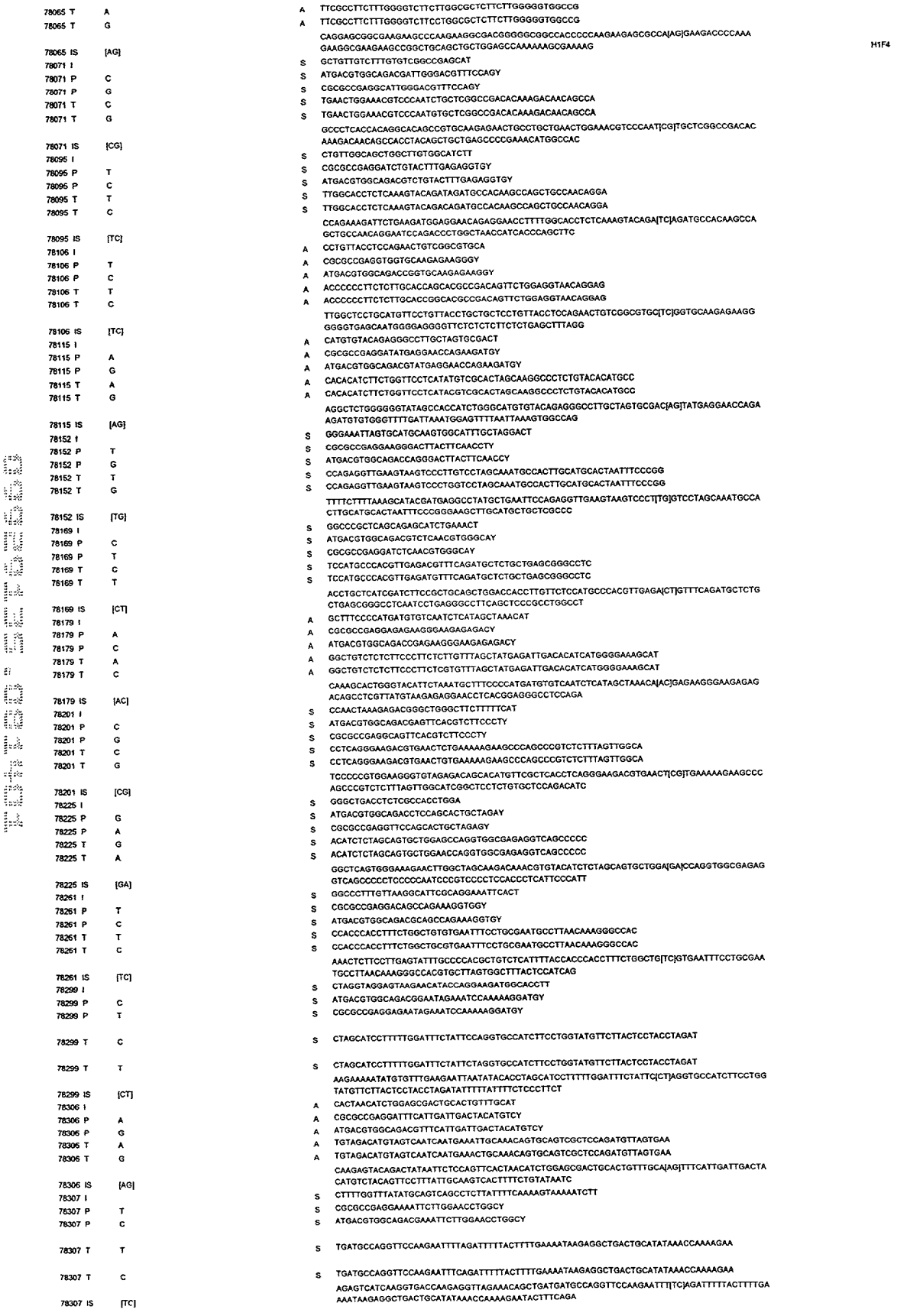

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77079 T G
77079 IS [AG]
77147 I
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77147 P G
77147 T C
77147 T G
77147 IS [CG]
77177 I
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77177 P A
77177 T G
77177 T A
77177 IS [GA]
77206 I
77206 P G
77206 P A
77206 T G
77206 T A
77206 IS [GA]
77244 I
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77244 P A
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77510 T A
77510 T G
77510 IS [AG]
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77619 P G
77619 P A
77619 T G
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A GTTCAGTCCCACATTTCTGTACTGTTCCTCTTTCACAGCTGGAATATGTCACATGATGAA
A GTTCAGTCCCACATTTCTGTACCGTTCCTCTTTCACAGCTGGAATATGTCACATGATGAA
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CTGAACTTGGCTGCTCCATTCAGATGGTCCAGGGGTTTAGAGTG
S CAACTTTAACTGGGCTTGAATGTGTGGGTGATCTGTTT
S ATGACGTGGCAGACGTCTGATTACTTTCTTTCTGTTACY
S CGCGCCGAGGCTCTGATTACTTTCTTTCTGTTACY
S AACAGTAACAGAAAGAAAGTAATCAGACAACAGATCACCCACACATTCAAGCCCAGTTAAAGTTGGC
S AACAGTAACAGAAAGAAAGTAATCAGAGAACAGATCACCCACACATTCAAGCCCAGTTAAAGTTGGC
AAGTTTAATCTACGAATCCAATCTCTACAGAGAAACAGTAACAGAAAGAAAGTAATCAGA[CG]AACAGATCACCCACAC
ATTCAAGCCCAGTTAAAGTTGGCAAGAATTGTATCTAGTTAGGC
A GGTTCAGCAGCCTGACCTCTACATCTAGACAAGGAAT
A ATGACGTGGCAGACGTGAGGAGGGTGATTGY
A CGCGCCGAGGATGAGGAGGGTGATTGCY
A CCCAGCAATCACCCTCCTCACTTCCTTGTCTAGATGTAGAGGTCAGGCTGCTGAACCAG
A CCCAGCAATCACCCTCCTCATTTCCTTGTCTAGATGTAGAGGTCAGGCTGCTGAACCAG
CCAGCAGTAGCCCATGTGTTGGCTGGTTCAGCAGCCTGACCTCTACATCTAGACAAGGAA[GA]TGAGGAGGGTGATT
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A ATGACGTGGCAGACGAGGAAAGAGACCTCCAY
A CGCGCCGAGGAAGGAAAGAGACCTCCAGY
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A CTTGCTGGAGGTCTCTTTCCTTAGCATCTCTCTTTCTTGGTCCATCTTTAGGGAGGCTT
CTTGTTAAAGGTTGGAACCAGAAAAGCCTCCCTAAAGATGGACCAAGAAAGAGAGATGCT[GA]AGGAAAGAGACCTCC
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S CAACGAGAGGAACACTTGCTCCACTCCACCA
S ATGACGTGGCAGACCAGCAACCTCTAATCTGCY
S CGCGCCGAGGTAGCAACCTCTAATCTGCCY
S TCACGGCAGATTAGAGGTTGCTGGGTGGAGTGGAGCAAGTGTTCCTCTCGTTGGG
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S CGCGCCGAGGTGAAAGTTTTAGGCTTTATACATACY
S ATGACGTGGCAGACCGAAAGTTTTAGGCTTTATACATAY
S ACTGGTATGTATAAAGCCTAAAACTTTCACTGGCCATTGGTAAACAGAAAAGCTCGCACACTTG
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AGAAAAGCTCGCACACTTGATGATTATGATACATTTGTCCTAAG
A GGGTGGGGACCTCACCTTTGTAGAGCGT
A ATGACGTGGCAGACGTGTCTCTCGGGATTTGY
A CGCGCCGAGGATGTCTCTCGGGATTTGTY
A TCCAACAAATCCCGAGAGACACCGCTCTACAAAGGTGAGGTCCCCACCCCG
A TCCAACAAATCCCGAGAGACATCGCTCTACAAAGGTGAGGTCCCCACCCCG
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TGTTGGAGATGTCCGGCTCTGCCCCTGCTTGGAGCAGTGACAGGAG
S TCTGTGATAGTGTCAGTTCCATTTAATTTGGTGTATATTTTTAAAATGTCAAAT
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S ATGACGTGGCAGACGGCAGTTACCATAACTTAATTTTAY
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S CGCGCCGAGGTGTCTTGGAAAACAGACTGY
S TGATCAGTCTGTTTTCCAAGACGGCCAGTGGGGGTAACTTCAGCTTGTTGGTTA

FIGURE 129D

77619 T	A	S	TGATCAGTCTGTTTTCCAAGACAGCCAGTGGGGGTAACTTCAGCTTGTTGGTTA	
77619 IS	[GA]		GGAATCAGCATGAATTATGTAAGTCTATAGTTCTTACTTGATCAGTCTGTTTTCCAAGAC[GA]GCCAGTGGGGGTAACT TCAGCTTGTTGGTTAGAGATGGGTGCTTGGGACATCAGGGAGTC	
77649 I		S	GGTCCCAGGAGGCACGCCCTCC	
77649 P	A	S	CGCGCCGAGGTACATTTCCGGGAGTCAY	
77649 P	C	S	ATGACGTGGCAGACGACATTTCCGGGAGTCAY	
77649 T	A	S	AGCCTGACTCCCGGAAATGTAGAGGGCGTGCCTCCTGGGACCGT	
77649 T	C	S	AGCCTGACTCCCGGAAATGTCGAGGGCGTGCCTCCTGGGACCGT	
77649 IS	[AC]		TTGCCAAACTGTGAAAAACGTTCTTCCAGTCCCCCTCTGAAAGCCTGACTCCCGGAAATGT[AC]GAGGGCGTGCCTCCT GGGACCGTCTTCACATCCTTCCCATGGGAAAGGCAGGCACTCTCG	
77664 I		A	CAGGGCCCAGCCAGGGACCATCT	
77664 P	C	A	ATGACGTGGCAGACCTCCCCAGCTCTGCY	
77664 P	A	A	CGCGCCGAGGATCCCCAGCTCTGCY	
77664 T	C	A	GGAGGCAGAGCTGGGGAGGATGGTCCCTGGCTGGGCCCTGCT	
77664 T	A	A	GGAGGCAGAGCTGGGGATGATGGTCCCTGGCTGGGCCCTGCT	
77664 IS	[CA]		CCTCCATCAGGGGGTTGGGAGAGGCCAGAGACCAGGAGCAGGGCCCAGCCAGGGACCATC[CA]TCCCCAGCTCTGC CTCCCCTGGCCAGCCTGACCCACTCCTCACCTCAGGCCAAAGTGGGG	
77671 I		A	CCTGCCCAGTGGGGCCATGAGTT	
77671 P	G	A	ATGACGTGGCAGACGAGTGACCATGCTGTGY	
77671 P	A	A	CGCGCCGAGGAAGTGACCATGCTGTGY	
77671 T	G	A	CTTACACAGCATGGTCACTCACTCATGGCCCCACTGGGCAGGGT	
77671 T	A	A	CTTACACAGCATGGTCACTTACTCATGGCCCCACTGGGCAGGGT	
77671 IS	[GA]		CCTAGCCTTGGGACCCCAGAGGGTTTCCTCAGCCACACCCTGCCCAGTGGGGCCATGAGT[GA]AGTGACCATGCTGT GTAAGGAAAGCAGGGATGGTGGCTTTTCTCTCTTCTAGCTGAGGAA	
77676 I		S	CCATAAGATGATGTTTTCCTTCCCTGTGTGCTGCAGT	
77676 P	C	S	ATGACGTGGCAGACGTACACACGGAGGGCY	
77676 P	T	S	CGCGCCGAGGATACACACGGAGGGCY	
77676 T	C	S	CAGAGCCCTCCGTGTGTACCTGCAGCACACAGGGAAGGAAAACATCATCTTATGGAT	
77676 T	T	S	CAGAGCCCTCCGTGTGTATCTGCAGCACACAGGGAAGGAAAACATCATCTTATGGAT	
77676 IS	[CT]		CATTCTGCCATCGAGCTCCTGACACTGCTTGAGGGTGAACTCCAGAGCCCTCCGTGTGTA[CT]CTGCAGCACACAGG GAAGGAAAACATCATCTTATGGATGATGATGTCTGTAATTTGCATA	
77697 I		A	GCCTCGAAATACCCATCCCAAACCCTA	
77697 P	T	A	CGCGCCGAGGTAGAGTGATGTTATGCTCTGY	
77697 P	C	A	ATGACGTGGCAGACCAGAGTGATGTTATGCTCTGY	
77697 T	T	A	CTAGCAGAGCATAACATCACTCTAAGGGTTTGGGATGGGTATTTCGAGGCTA	
77697 T	C	A	CTAGCAGAGCATAACATCACTCTGAGGGTTTGGGATGGGTATTTCGAGGCTA	
77697 IS	[TC]		AAACATACACACACACAAAGATTCCTTAAAGTTAGCCTCGAAATACCCATCCCAAACCCT[TC]AGAGTGATGTTATGCT CTGCTAGAAGCTTCTGAAACAAAATGCCTTTTCAGTGTTGTGAA	
77707 I		A	AGCAGGTGGTGGACCTGGGAAATCCCA	
77707 P	C	A	ATGACGTGGCAGACCTGGTGGAAAATAATCTCGAY	
77707 P	T	A	CGCGCCGAGGTTGGTGGAAAATAATCTCGAY	
77707 T	C	A	CTTCTCGAGATTATTTTCCACCAGGGGATTTCCCAGGTCCACCACCTGCTCC	
77707 T	T	A	CTTCTCGAGATTATTTTCCACCAAGGGATTTCCCAGGTCCACCACCTGCTCC	
77707 IS	[CT]		AAAAAAAAGTTTAAAAAAGCATACTTGCAAATGGAGCAGGTGGTGGACCTGGGAAATCCC[CT]TGGTGGAAAATAATCT CGAGAAGCTCCAAACATGGCTCCTGGAGGAGGTGGGGGGAAAGG	
77750 I		S	GCACCACAGCTGGCTGGCAGGATT	
77750 P	C	S	ATGACGTGGCAGACGAGAAGGATAGAGAGTAGTCAY	
77750 P	T	S	CGCGCCGAGGAAGAAGGATAGAGAGTAGTCACY	
77750 T	C	S	CATAGTGACTACTCTCTATCCTTCTCATCCTGCCAGCCAGCTGTGGTGCAT	
77750 T	T	S	CATAGTGACTACTCTCTATCCTTCTTATCCTGCCAGCCAGCTGTGGTGCAT	
77750 IS	[CT]		ACATGGGACTGGTGGCTGAGCAAGCAGCCATTACTCATAGTGACTACTCTCTATCCTTCT[CT]ATCCTGCCAGCCAGC TGTGGTGCATCTACAGGGCCAAGGGTCAGCAATTCAAGTCAAGAA	
77793 I		S	GGCGCTGGGCCGCTTCGCC	
77793 P	A	S	CGCGCCGAGGTTTGGACTTCGGGCTY	
77793 P	C	S	ATGACGTGGCAGACGTTGGACTTCGGGCTY	
77793 T	A	S	CACAAGCCCGAAGTCCAAAGCGAAGCGGCCCAGCGCCAG	
77793 T	C	S	CACAAGCCCGAAGTCCAACGCGAAGCGGCCCAGCGCCAG	
77793 IS	[AC]		GATATTGACGCGGGCCTCGCGGGTGCCCCGCAGGGGGCGCCGGCACAAGCCCGAAGTCCAA[AC]GCGAAGCGGCCC AGCGCCAGCACTGCGTGGCCGCACATGGAGCTGTAGCCCTCGTTGTGC	
77878 I		S	CGGAAATGGACCTGAAGTGGATGAGCTTTGTGCA	
77878 P	G	S	ATGACGTGGCAGACCCCCTCAGTTAGAGCCY	
77878 P	A	S	CGCGCCGAGGTCCCTCAGTTAGAGCCY	
77878 T	G	S	GGGCGGCTCTAACTGAGGGGGCACAAAGCTCATCCACTTCAGGTCCATTTCCGAG	
77878 T	A	S	GGGCGGCTCTAACTGAGGGAGCACAAAGCTCATCCACTTCAGGTCCATTTCCGAG	
77878 IS	[GA]		TCACTATAACACCCAGGGGTGGCCGCTTTCTTAGGGTGTAAGGGCGGCTCTAACTGAGGG[GA]GCACAAAGCTCATC CACTTCAGGTCCATTTCCGAGAAACATTTTGGGAAGCTCACTGCAG	
77929 I		A	CCATTCACATGCACCAAATGAGAAGGCCCAGAT	
77929 P	A	A	CGCGCCGAGGAATTTTGAGTGTGAGCAACAY	
77929 P	C	A	ATGACGTGGCAGACCATTTTGAGTGTGAGCAACY	
77929 T	A	A	TCTGTGTTGCTCACACTCAAAATTTCTGGGCCTTCTCATTTGGTGCATGTGAATGGTG	
77929 T	C	A	TCTGTGTTGCTCACACTCAAAATGTCTGGGCCTTCTCATTTGGTGCATGTGAATGGTG	
77929 IS	[AC]		GCCCCATCCTAGACTTCACTCATATGCACCATTCACATGCACCAAATGAGAAGGCCCAGA[AC]ATTTTGAGTGTGAGC AACACAGAACCTAGAGACACAATTTATGTGGTGGTGGGGTGGCTT	
78038 I		S	CTGGGGCTGCACATTCACGTAGCCAGT	
78038 P	C	S	ATGACGTGGCAGACGGTCCATGAGTGACACAY	
78038 P	T	S	CGCGCCGAGGAGTCCATGAGTGACACAY	
78038 T	C	S	TCGCTGTGTCACTCATGGACCCTGGCTACGTGAATGTGCAGCCCCAGCC	
78038 T	T	S	TCGCTGTGTCACTCATGGACTCTGGCTACGTGAATGTGCAGCCCCAGCC	
78038 IS	[CT]		ACCTTCCTGCTCCTGGTGCTGGGCTCCCTGCTGCTCTACCTCGCTGTGTCACTCATGGAC[CT]CTGGCTACGTGAAT GTGCAGCCCCAGCCTCAGGTAACCAGGGGCCCCTACTCTCACCAAC	
78040 I		S	CCTTTTTACCTTTTTTGCTATCTTTCTCTGTACCTCCTTTTTCAA	
78040 P	G	S	ATGACGTGGCAGACCCTTCAGATTCTGTTGCCY	
78040 P	A	S	CGCGCCGAGGTCTTCAGATTCTGTTGCCY	
78040 T	G	S	ACTCGGCAACAGAATCTGAAGGTGAAAAAGGAGGTACAGAGAAAGATAGCAAAAAAGGTAAAAAGGAT	
78040 T	A	S	ACTCGGCAACAGAATCTGAAGATGAAAAAGGAGGTACAGAGAAAGATAGCAAAAAAGGTAAAAAGGAT	
78040 IS	[GA]		ATAACGAAAAAGATAAAAAAGGATTCAAACAAAGGCAAAGACTCGGCAACAGAATCTGAAG[GA]TGAAAAAGGAGGTAC AGAGAAAGATAGCAAAAAAGGTAAAAAGGATTCAAAGAAGGGCAA	CYLC2
78043 I		S	CATCCTAGGGAAGCCGACCCACGGAAATT	
78043 P	C	S	ATGACGTGGCAGACGAGATGCCAGAATCATGCY	
78043 P	T	S	CGCGCCGAGGAAGATGCCAGAATCATGCY	
78043 T	C	S	GCCTGCATGATTCTGGCATCTCATTTCCGTGGGTCGGCTTCCCTAGGATGTT	
78043 T	T	S	GCCTGCATGATTCTGGCATCTTATTTCCGTGGGTCGGCTTCCCTAGGATGTT	
78043 IS	[CT]		GAACCTGAGCTTGAGACAGGCCAGCATGAACAATAGAAAGCCTGCATGATTCTGGCATCT[CT]ATTTCCGTGGGTCGG CTTCCCTAGGATGTTCCTGCTTTTCTCAGATGCTTCCCTTCTTCA	
78065 I		A	GCCACCCCCAAGAAGAGCGCCAT	
78065 P	A	A	CGCGCCGAGGAGAAGACCCCAAAGAAGGY	
78065 P	G	A	ATGACGTGGCAGACGGAAGACCCCAAAGAAGY	

FIGURE 129D



H1F4

FIGURE 129D

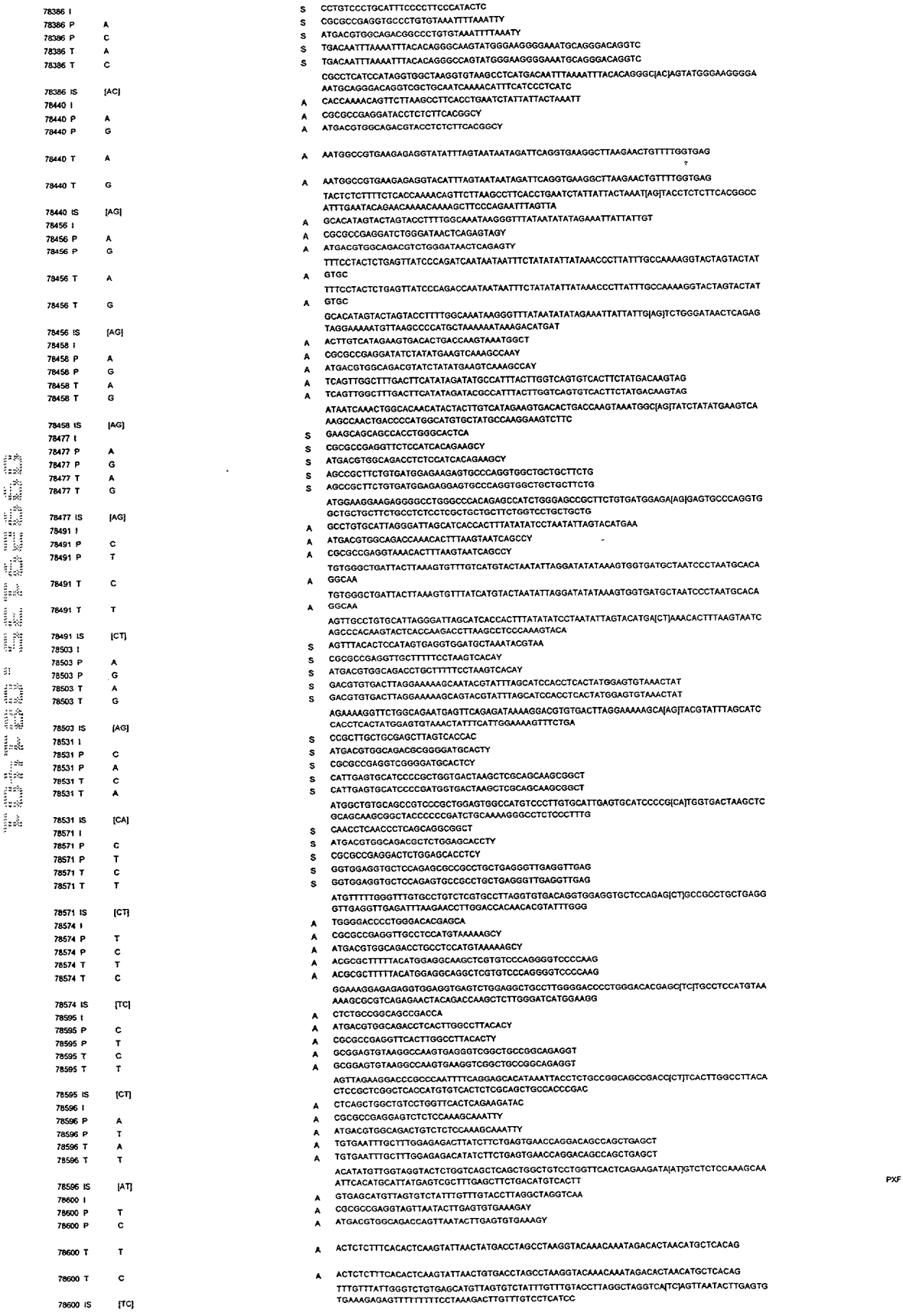

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A CGCGCCGAGGATACCTCTCTTCACGGCY
A ATGACGTGGCAGACGTACCTCTCTTCACGGCY
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A CGCGCCGAGGATCTGGGATAACTCAGAGTAGY
A ATGACGTGGCAGACGTCTGGGATAACTCAGAGTY
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A GTGC
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A ACTTGTCATAGAAGTGACACTGACCAAGTAAATGGCT
A CGCGCCGAGGATATCTATATGAAGTCAAAGCCAAY
A ATGACGTGGCAGACGTATCTATATGAAGTCAAAGCCAY
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FIGURE 129D

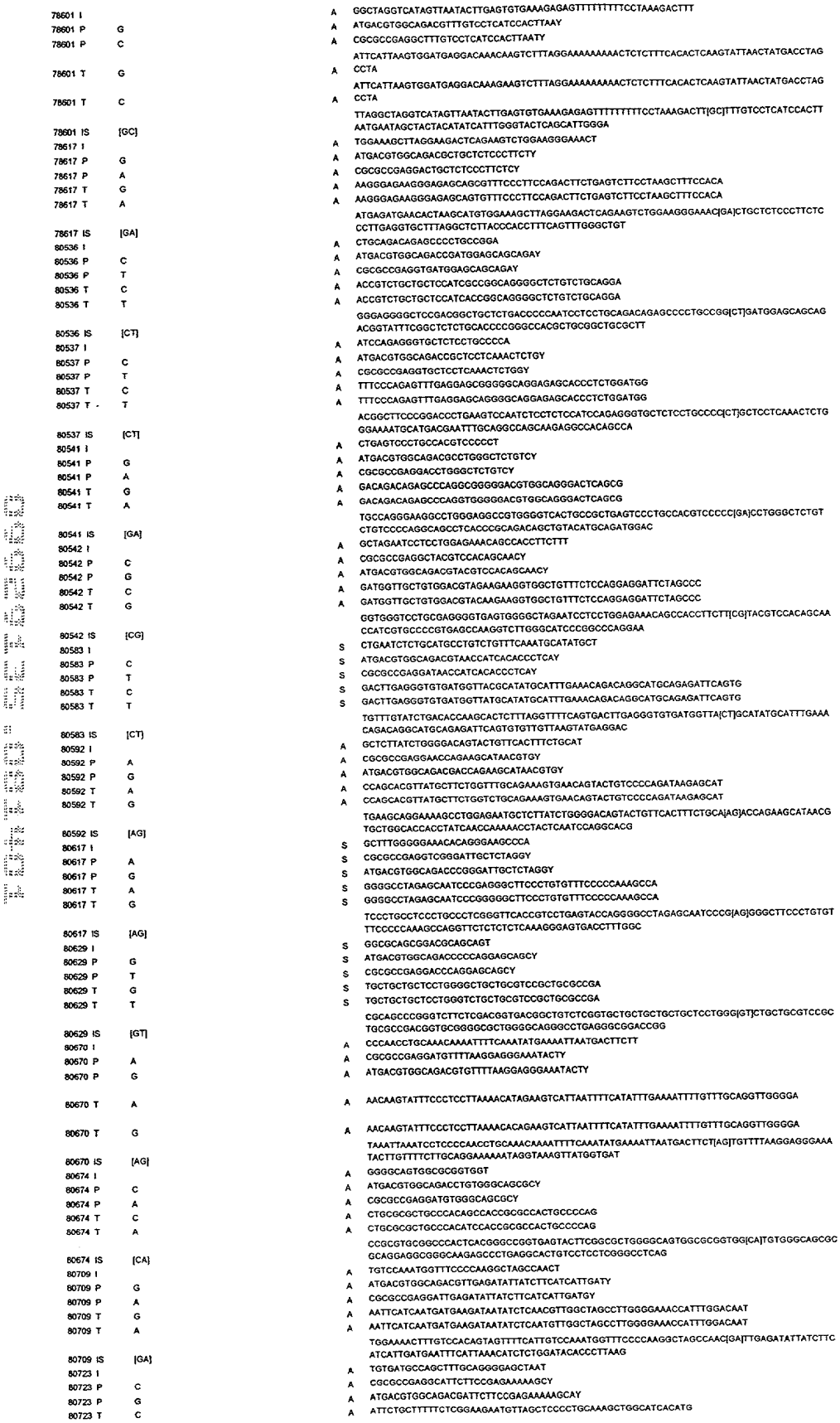
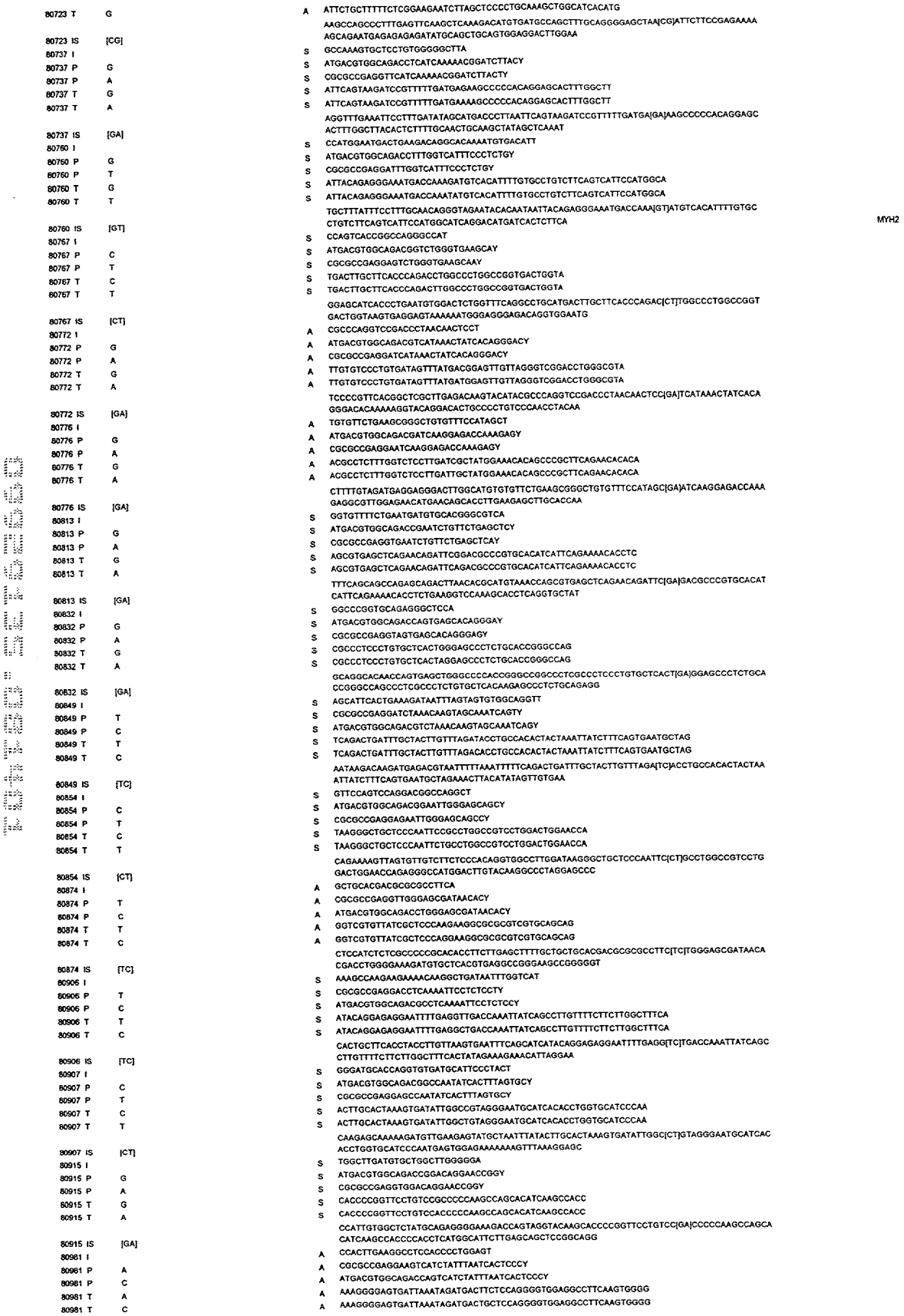
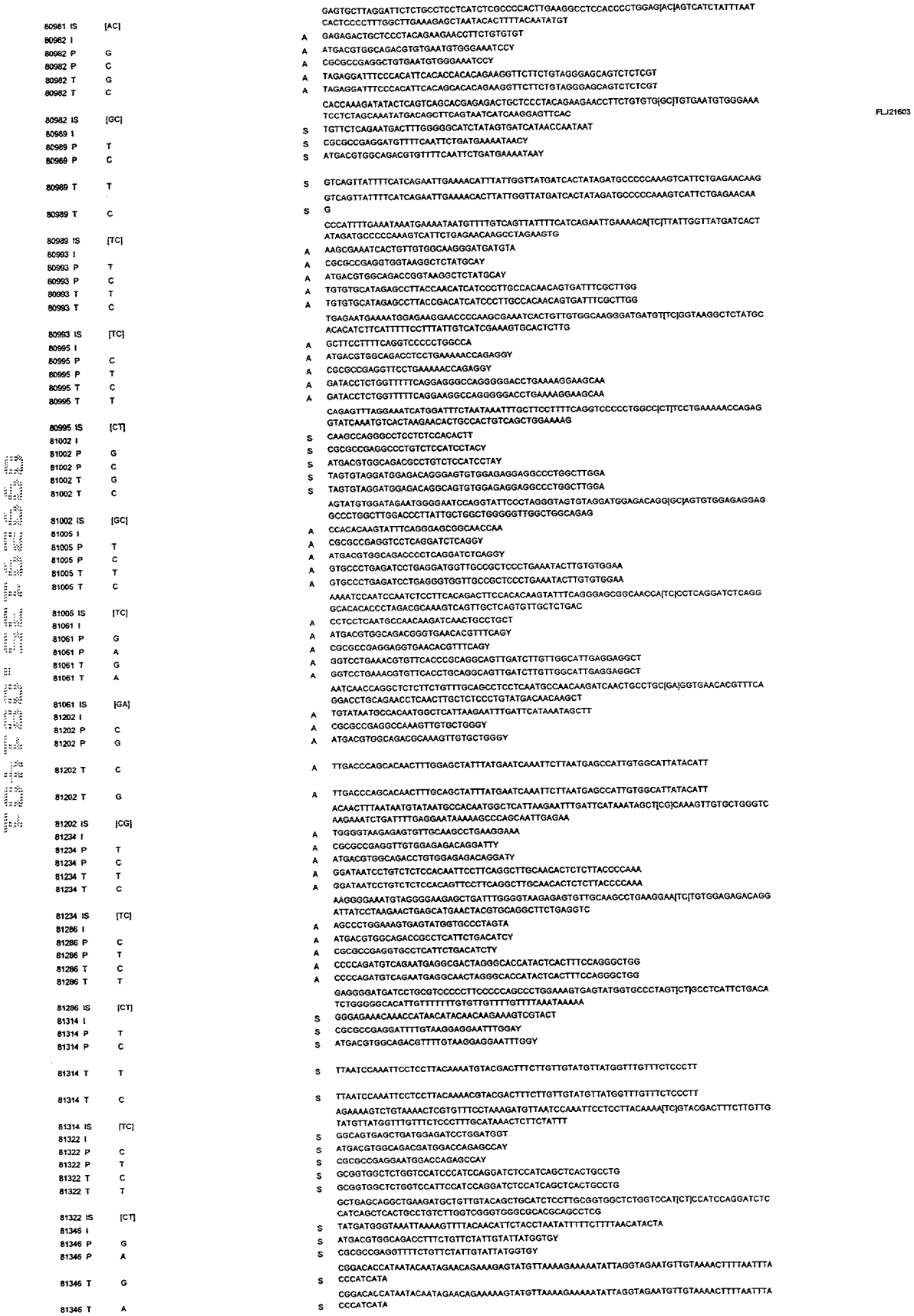

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78617 T A
78617 IS [GA]
80536 I
80536 P C
80536 P T
80536 T C
80536 T T
80536 IS [CT]
80537 I
80537 P C
80537 P T
80537 T C
80537 T T
80537 IS [CT]
80541 I
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80541 T G
80541 T A
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80542 I
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80542 P G
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80583 P T
80583 T C
80583 T T
80583 IS [CT]
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80617 T G
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FIGURE 129D



MYH2

FIGURE 129D



FLJ21603

FIGURE 129D

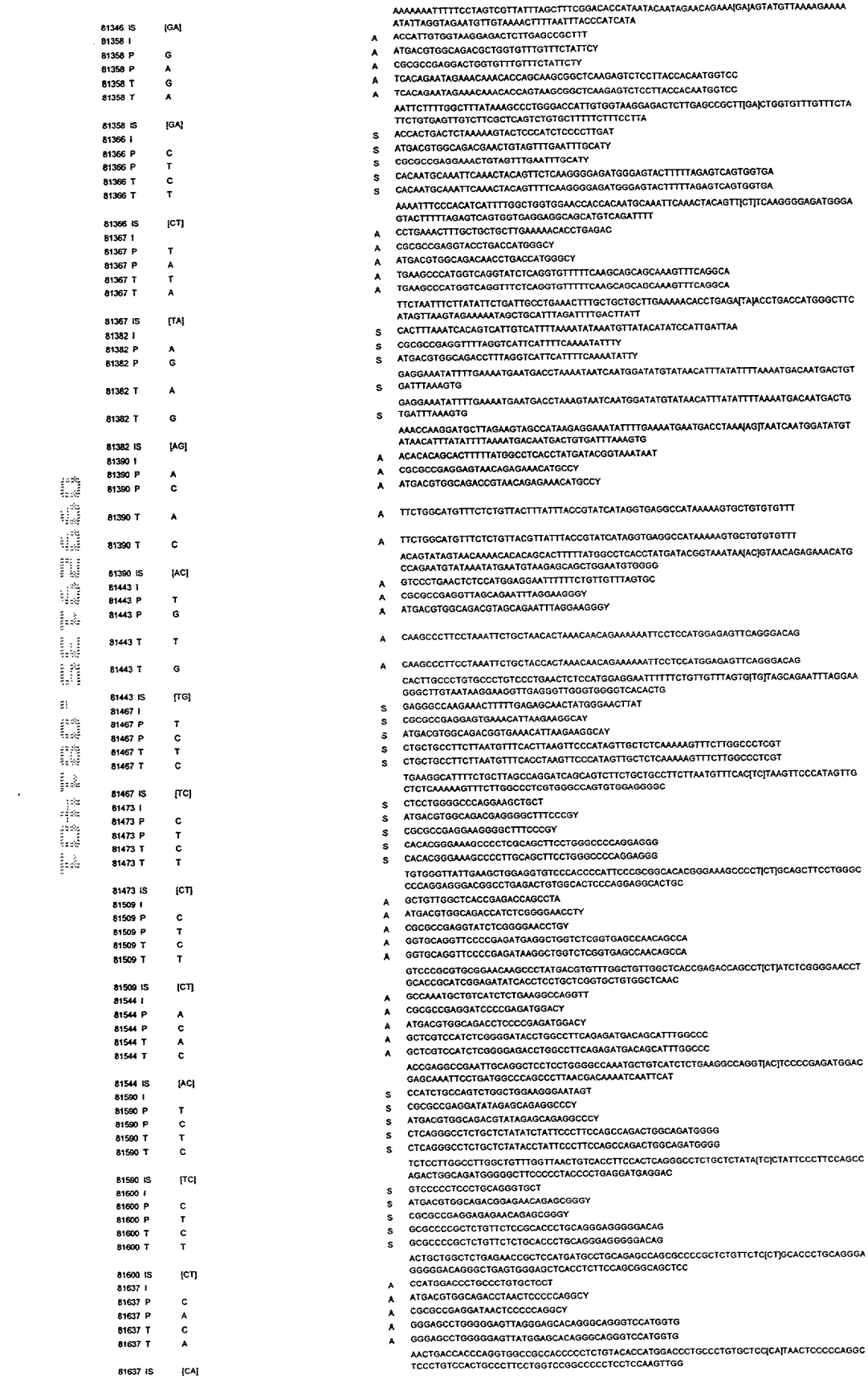


FIGURE 129D

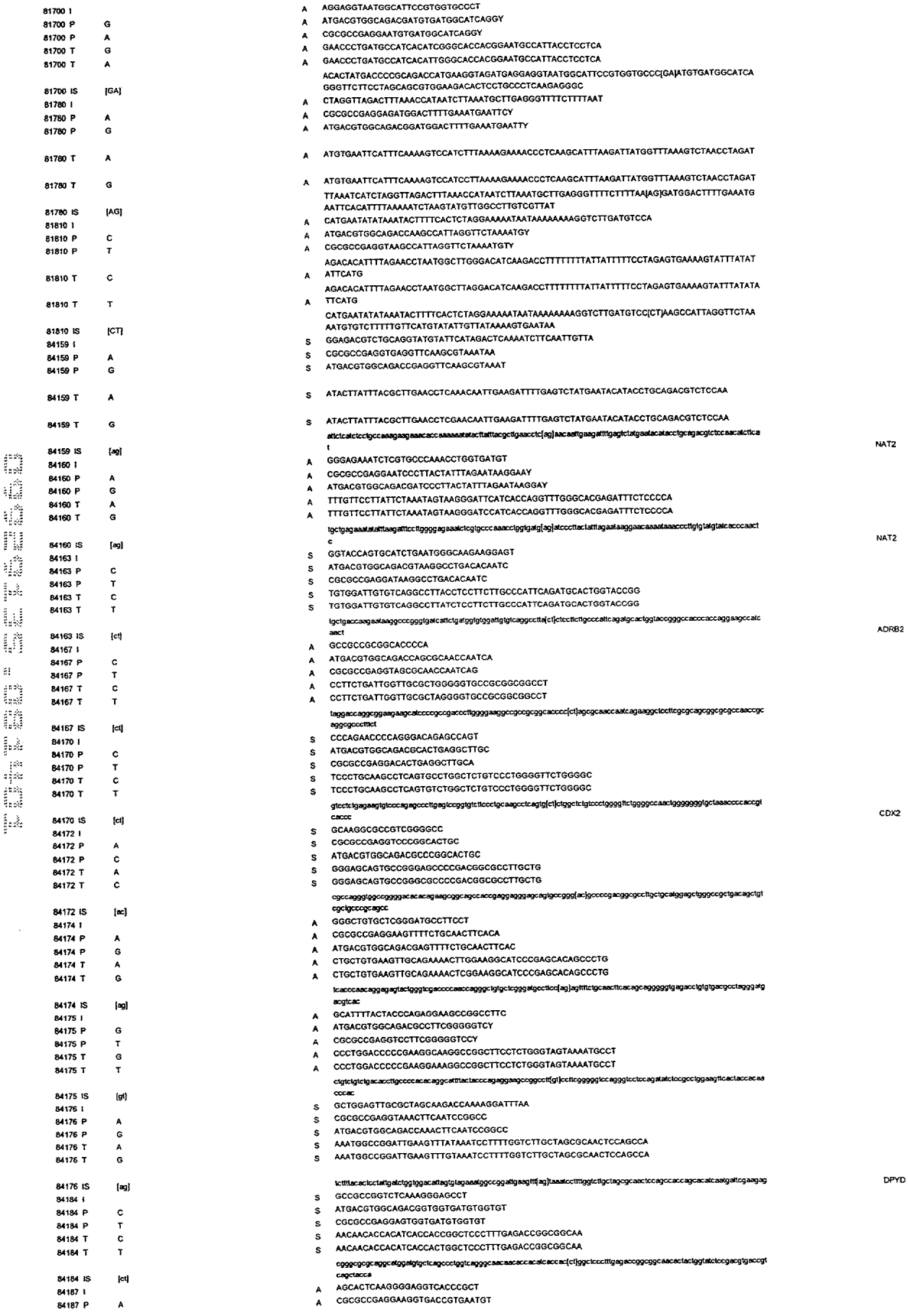

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81810 IS [CT]
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FIGURE 129D

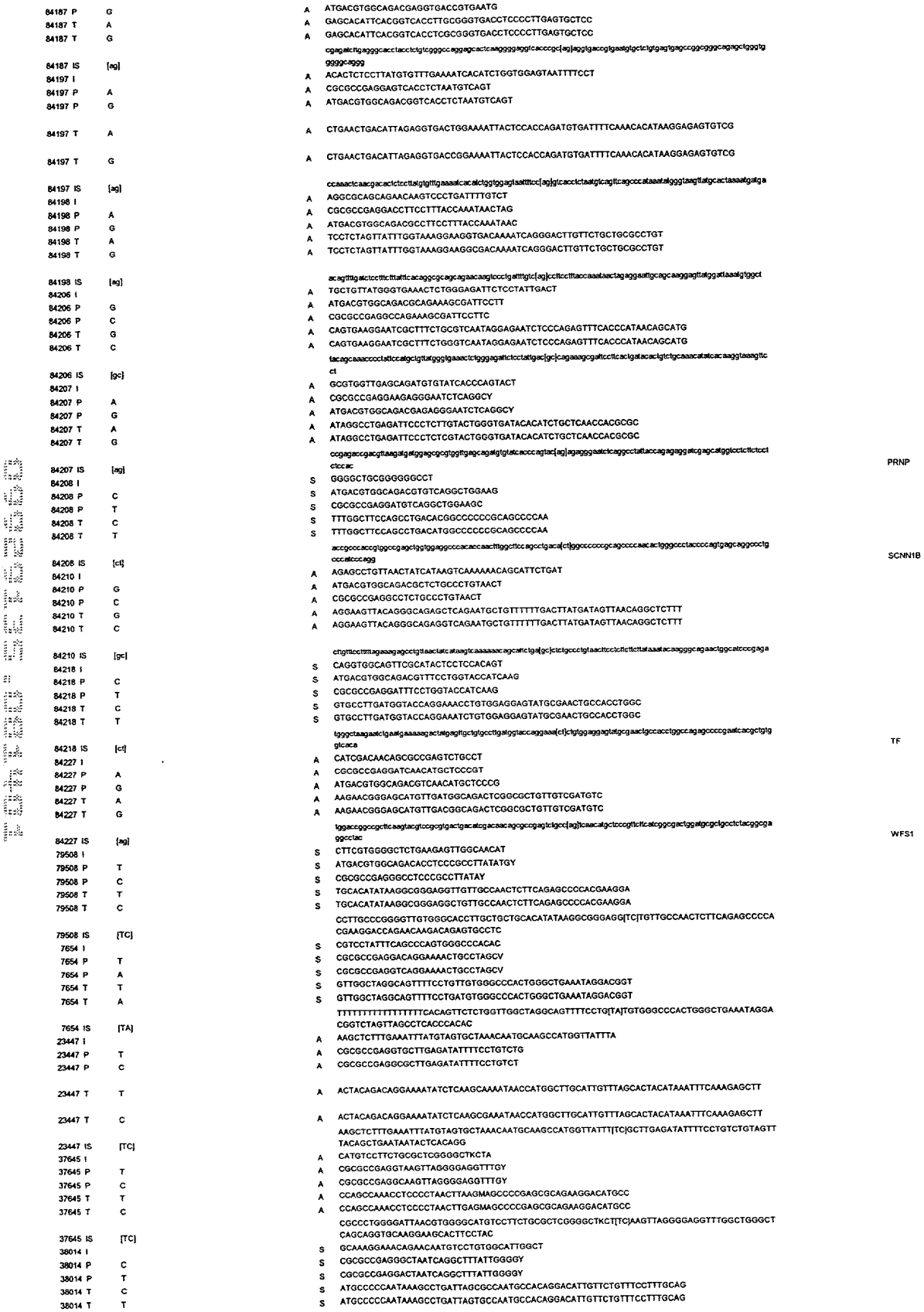

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84206 T C A CAGTGAAGGAATCGCTTTCTGGGTCAATAGGAGAATCTCCCAGAGTTTCACCCATAACAGCATG
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TF
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FIGURE 129D

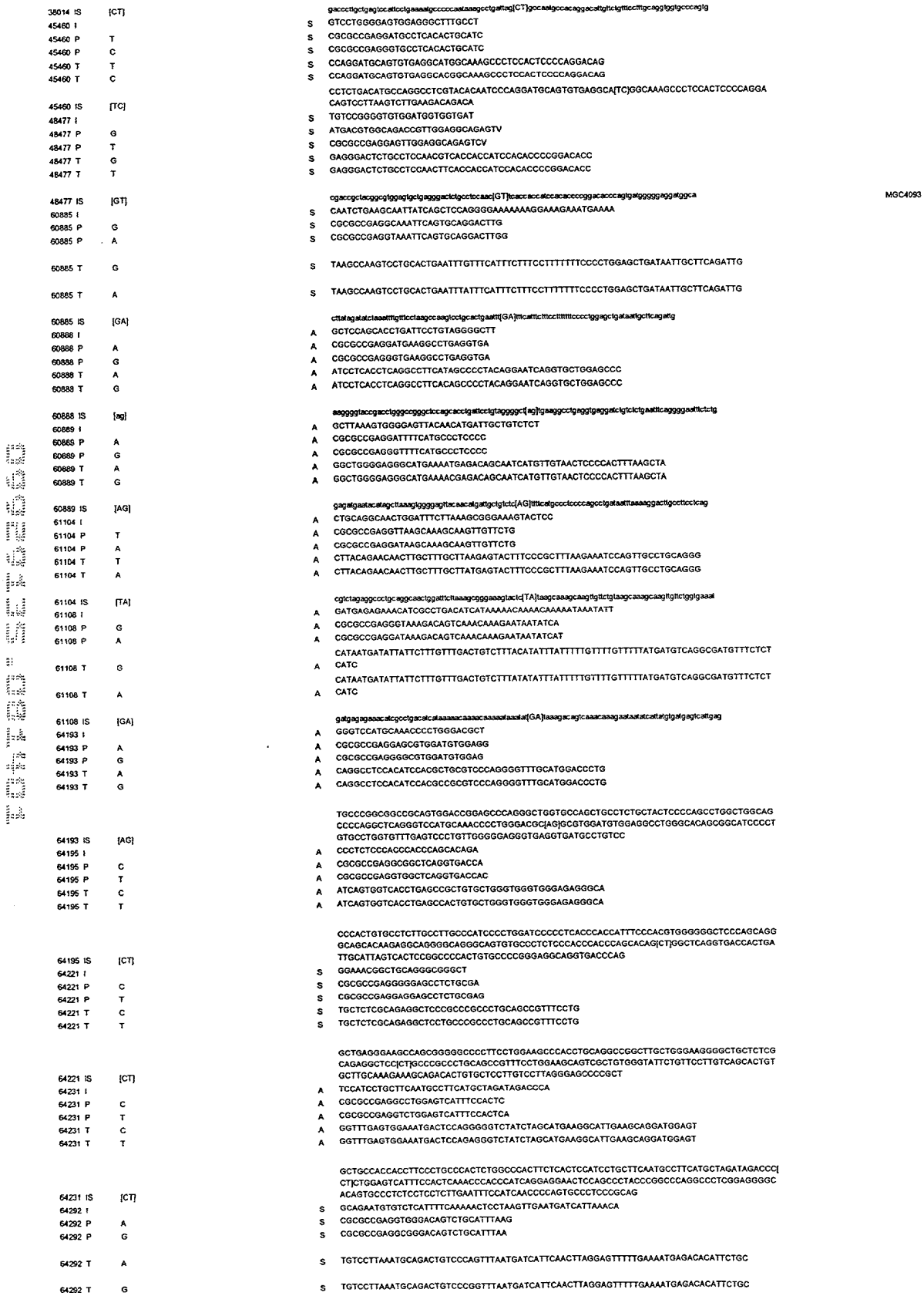

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A CGCGCCGAGGATAAGCAAAGCAAGTTGTTCTG
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A CGCGCCGAGGATAAAGACAGTCAAACAAAGAATAATATCAT
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S CGCGCCGAGGCGGGACAGTCTGCATTTAA
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FIGURE 129D

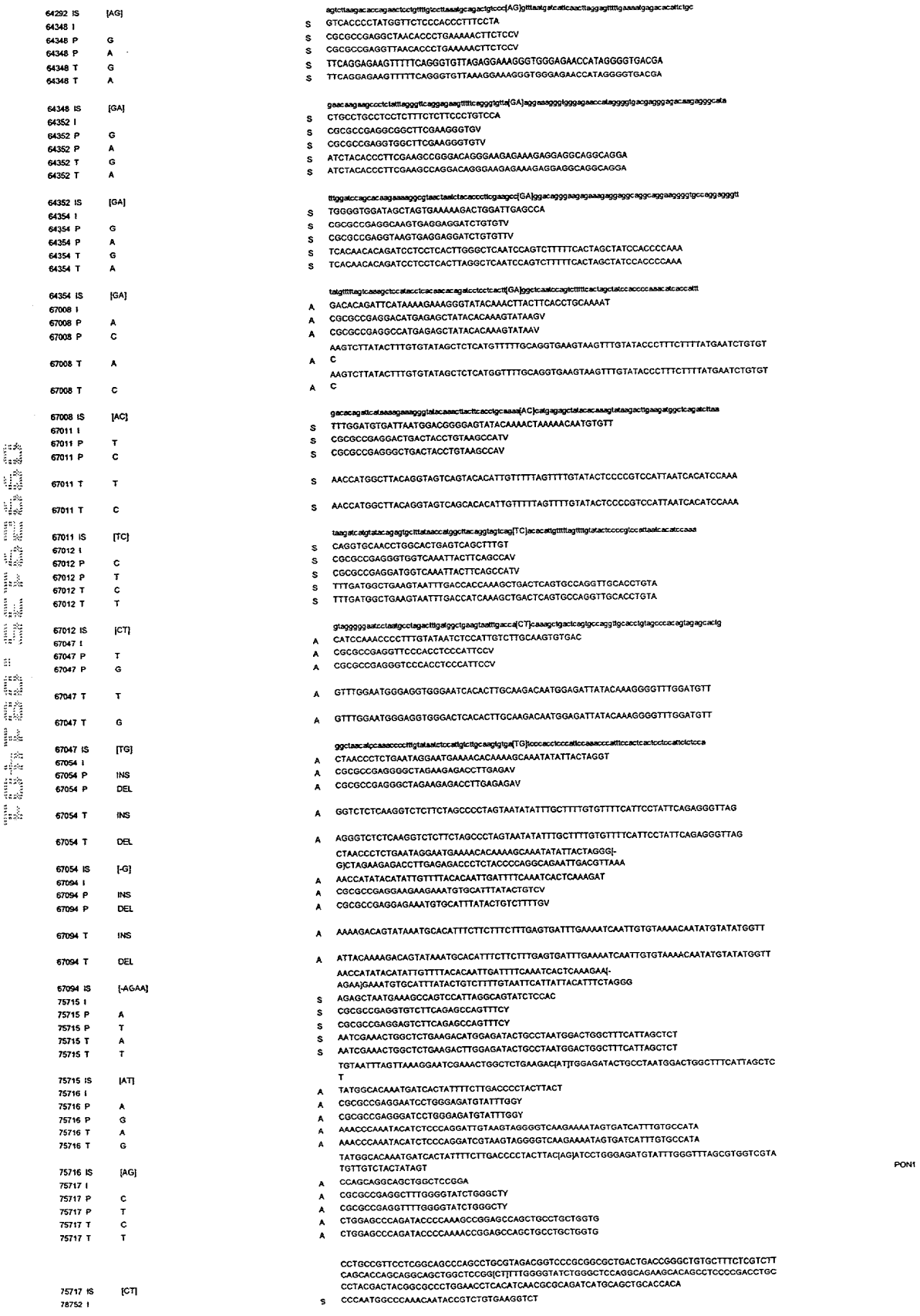

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FIGURE 129D

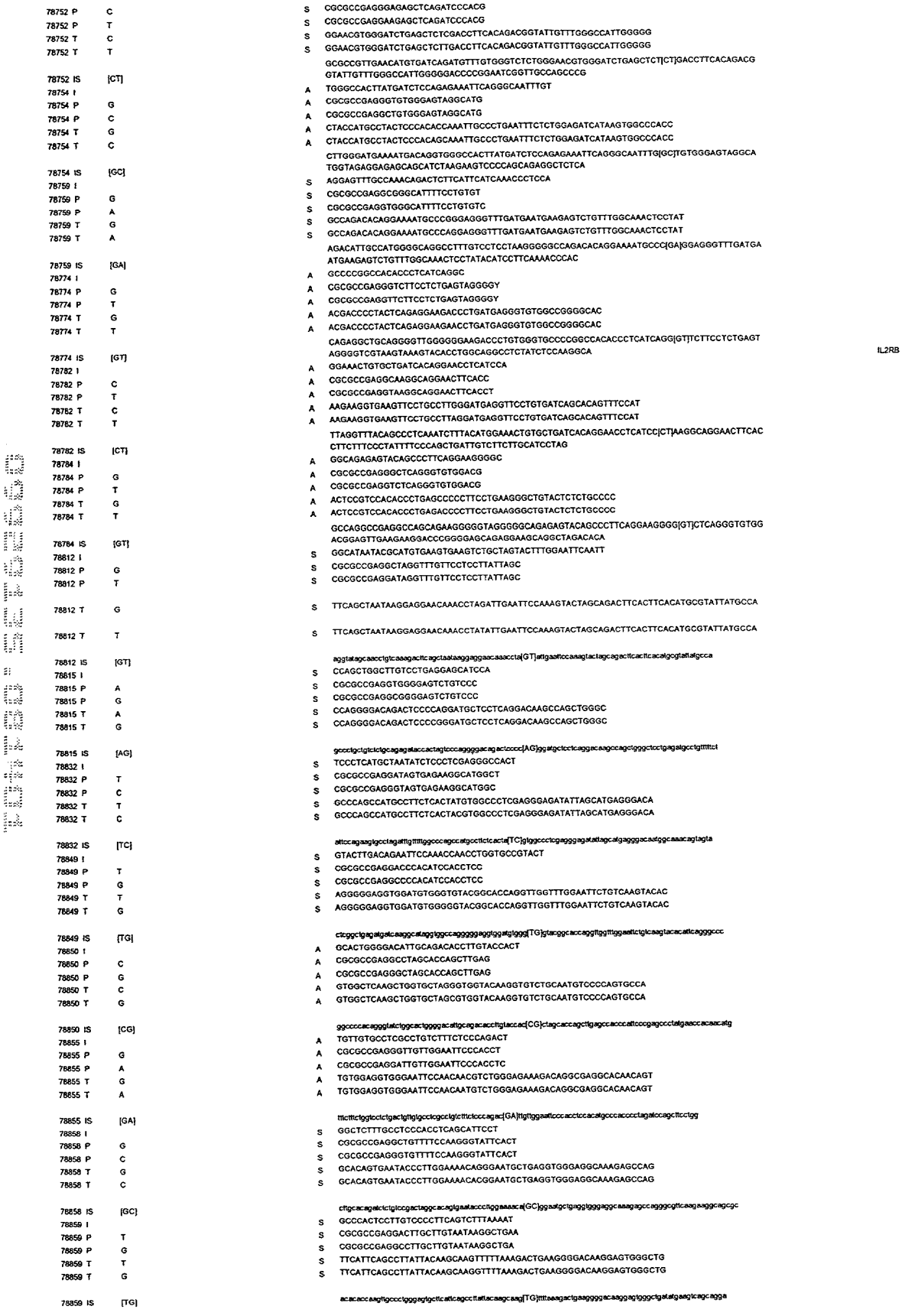


FIGURE 129D

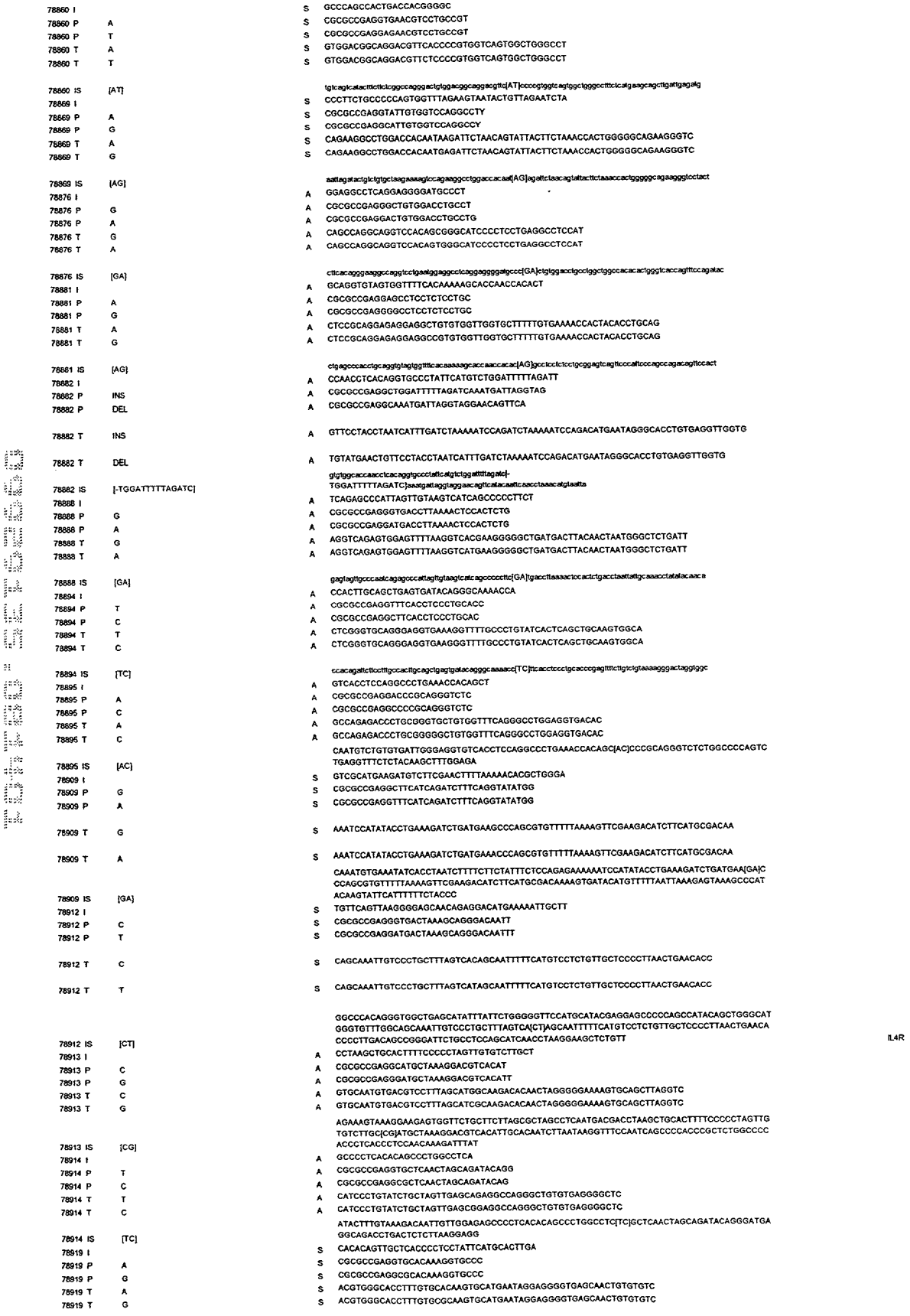

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78912 P C S CGCGCCGAGGGTGACTAAAGCAGGGACAATT
78912 P T S CGCGCCGAGGATGACTAAAGCAGGGACAATTT
78912 T C S CAGCAAATTGTCCCTGCTTTAGTCACAGCAATTTTTCATGTCCTCTGTTGCTCCCCTTAACTGAACACC
78912 T T S CAGCAAATTGTCCCTGCTTTAGTCATAGCAATTTTTCATGTCCTCTGTTGCTCCCCTTAACTGAACACC
78912 IS [CT] GGCCCACAGGGTGGCTGAGCATATTTATTCTGGGGGTTCCATGCATACGAGGAGCCCCCAGCCATACAGCTGGGCAT GGGTGTTTGGCAGCAAATTGTCCCTGCTTTAGTCA[CT]AGCAATTTTTCATGTCCTCTGTTGCTCCCCTTAACTGAACA CCCCTTGACAGCCGGGATTCTGCCTCCAGCATCAACCTAAGGAAGCTCTGTT
78913 I A CCTAAGCTGCACTTTTCCCCCTAGTTGTGTCTTGCT
78913 P C A CGCGCCGAGGCATGCTAAAGGACGTCACAT
78913 P G A CGCGCCGAGGGATGCTAAAGGACGTCACATT
78913 T C A GTGCAATGTGACGTCCTTTAGCATGGCAAGACACAACTAGGGGGAAAAGTGCAGCTTAGGTC
78913 T G A GTGCAATGTGACGTCCTTTAGCATCGCAAGACACAACTAGGGGGAAAAGTGCAGCTTAGGTC
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78914 I A GCCCCTCACACAGCCCTGGCCTCA
78914 P T A CGCGCCGAGGTGCTCAACTAGCAGATACAGG
78914 P C A CGCGCCGAGGCGCTCAACTAGCAGATACAG
78914 T T A CATCCCTGTATCTGCTAGTTGAGCAGAGGCCAGGGCTGTGTGAGGGGCTC
78914 T C A CATCCCTGTATCTGCTAGTTGAGCGGAGGCCAGGGCTGTGTGAGGGGCTC
78914 IS [TC] ATACTTTGTAAAGACAATTGTTGGAGAGCCCCTCACACAGCCCTGGCCTC[TC]GCTCAACTAGCAGATACAGGGATGA GGCAGACCTGACTCTCTTAAGGAGG
78919 I S CACACAGTTGCTCACCCCTCCTATTCATGCACTTGA
78919 P A S CGCGCCGAGGTGCACAAAGGTGCCC
78919 P G S CGCGCCGAGGCGCACAAAGGTGCCC
78919 T A S ACGTGGGCACCTTTGTGCACAAGTGCATGAATAGGAGGGGTGAGCAACTGTGTGTC
78919 T G S ACGTGGGCACCTTTGTGCGCAAGTGCATGAATAGGAGGGGTGAGCAACTGTGTGTC
IL4R

FIGURE 129D

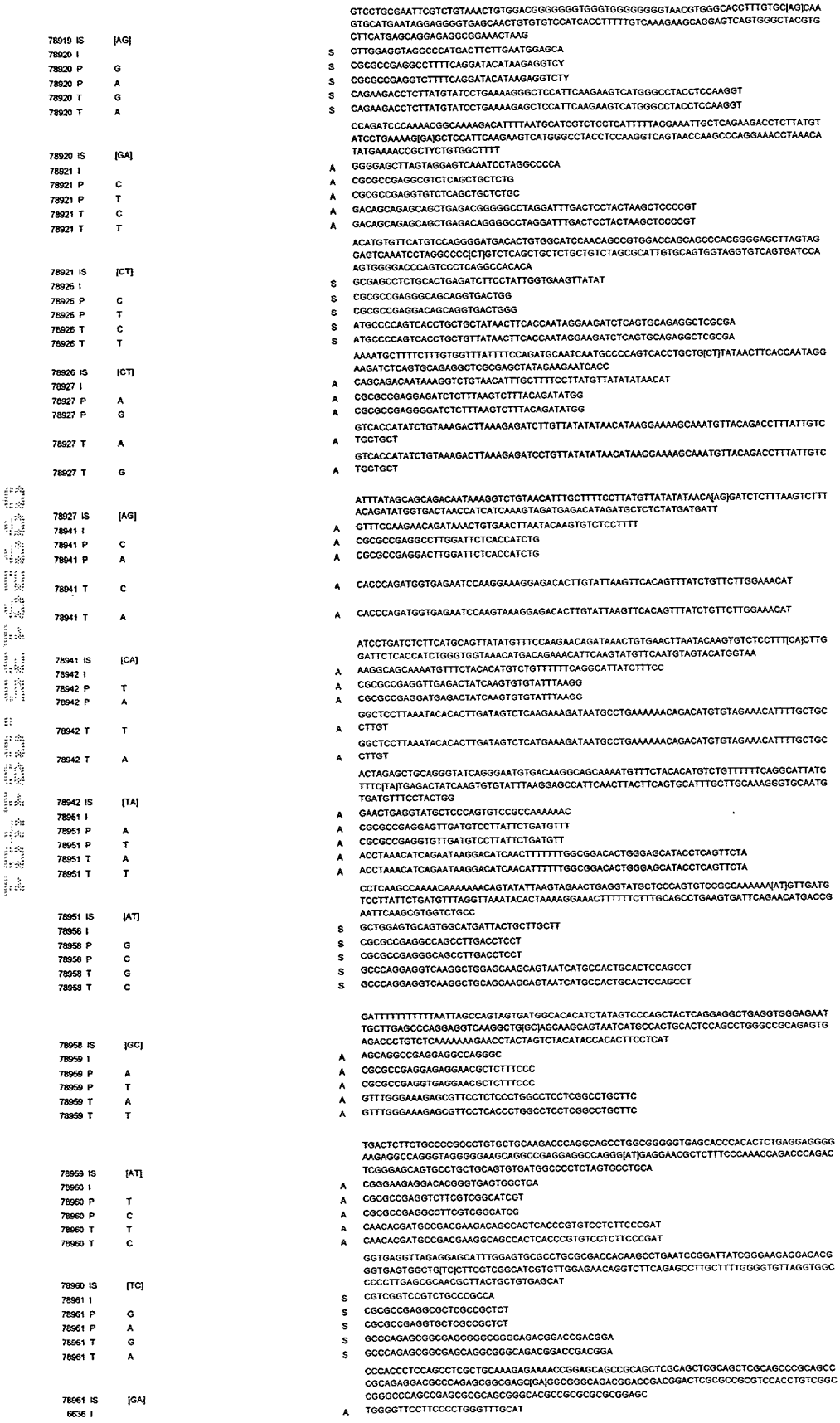


FIGURE 129D

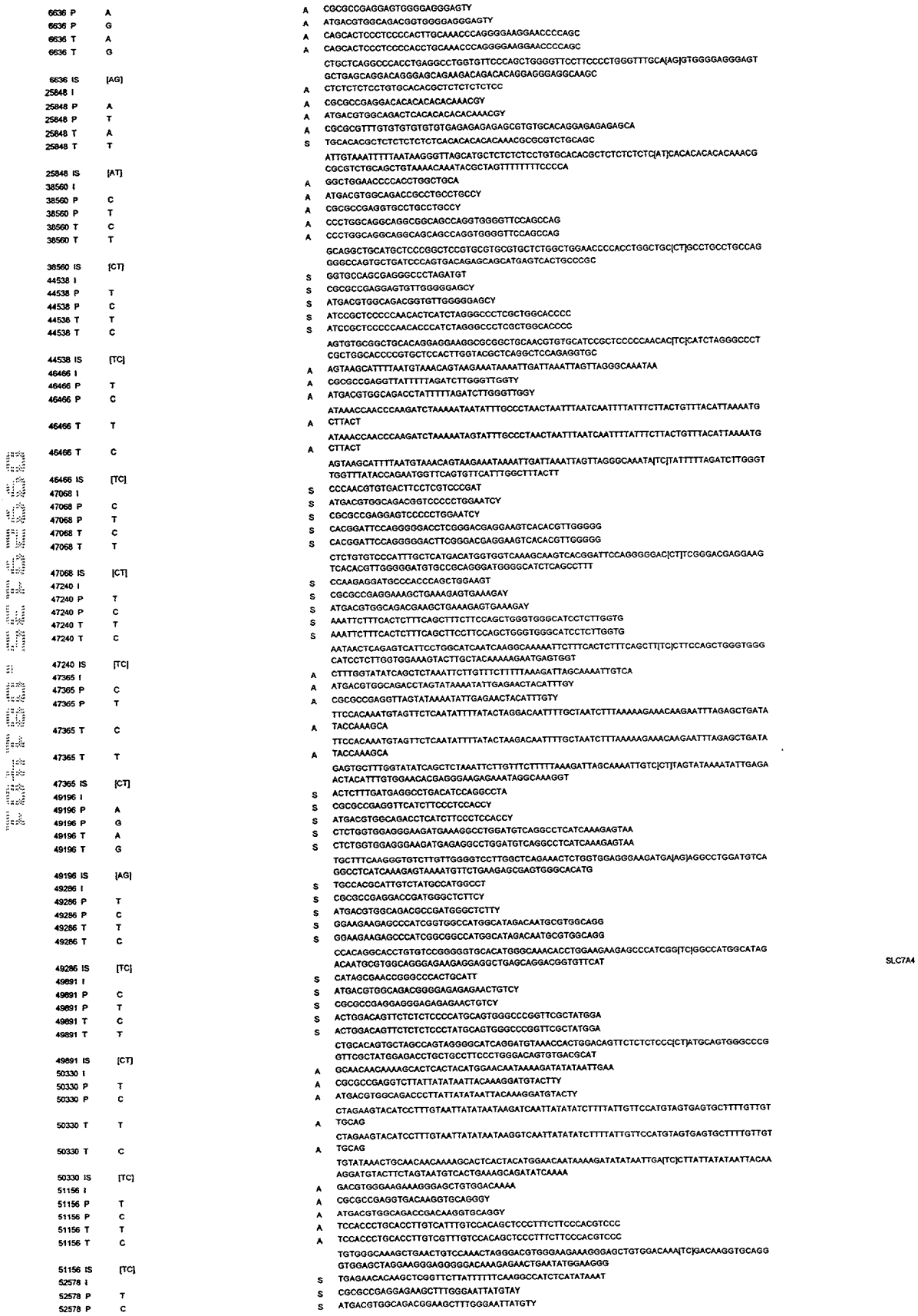

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38560 IS [CT]
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44538 T C
44538 IS [TC]
46466 I
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47365 T C
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49891 IS [CT]
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FIGURE 129D

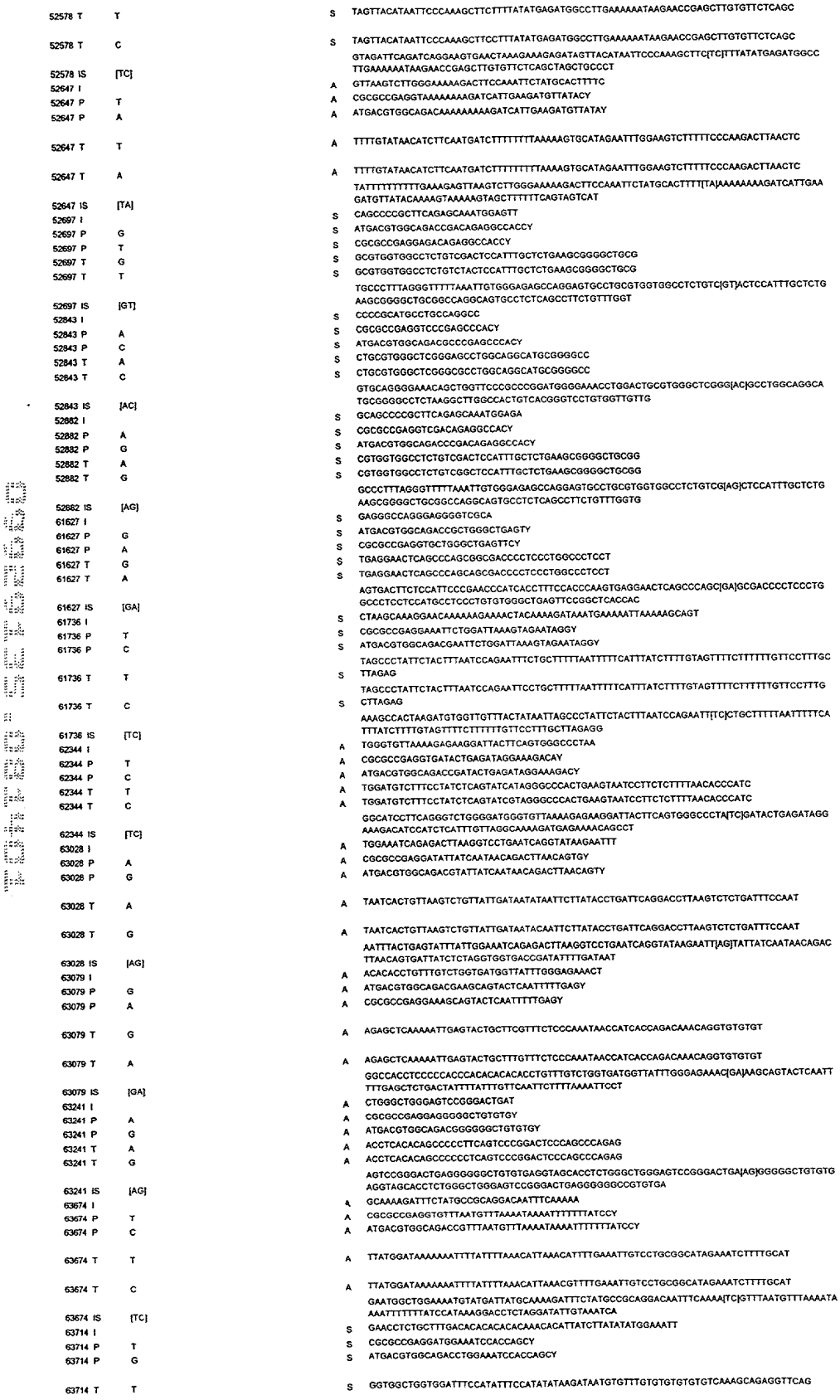

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52843 T C
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52882 T G
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61627 T A
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61736 T C
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63028 P G
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63028 T G
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63079 P A
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63079 T A
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63241 P A
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63241 P G
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63241 T G
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63674 P C
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63674 T C
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63714 P T
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63714 P G
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FIGURE 129D

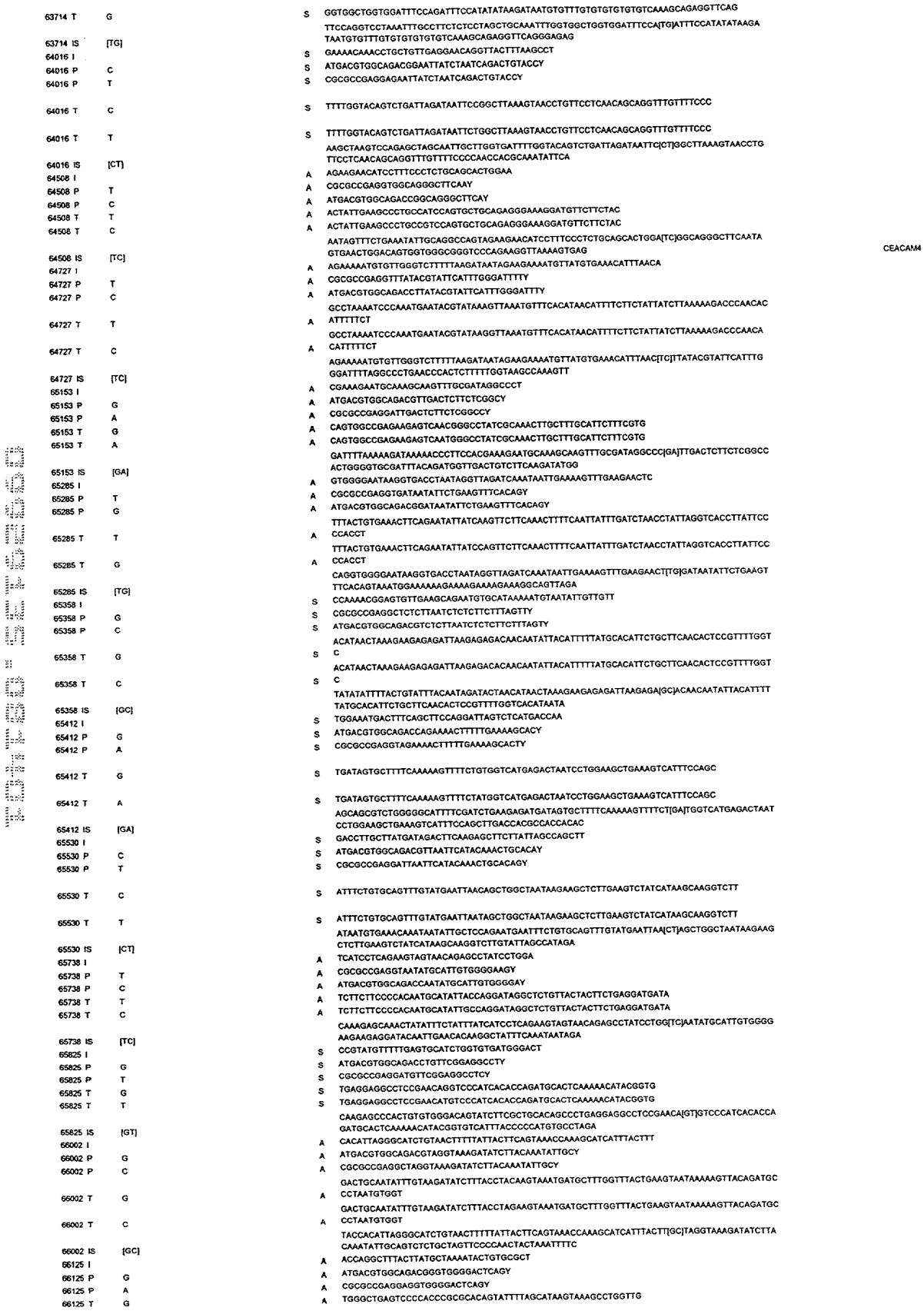

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A CGCGCCGAGGTGATAATATTCTGAAGTTTCACAGY
A ATGACGTGGCAGACGGATAATATTCTGAAGTTTCACAGY
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A CCACCT
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A CCACCT
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S CCAAAACGGAGTGTTGAAGCAGAATGTGCATAAAAATGTAATATTGTTGTT
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S ATGACGTGGCAGACGTCTCTTAATCTCTCTTCTTTAGTY
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S C
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S C
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S CGCGCCGAGGATTAATTCATACAAACTGCACAGY
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A CGCGCCGAGGTAATATGCATTGTGGGGAAGY
A ATGACGTGGCAGACCAATATGCATTGTGGGGAY
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A TCTTCTTCCCCACAATGCATATTGCCAGGATAGGCTCTGTTACTACTTCTGAGGATGATA
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A CGCGCCGAGGCTAGGTAAAGATATCTTACAAATATTGCY
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A ACCAGGCTTTACTTATGCTAAAATACTGTGCGCT
A ATGACGTGGCAGACGGGTGGGGACTCAGY
A CGCGCCGAGGAGGTGGGGACTCAGY
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CEACAM4

FIGURE 129D

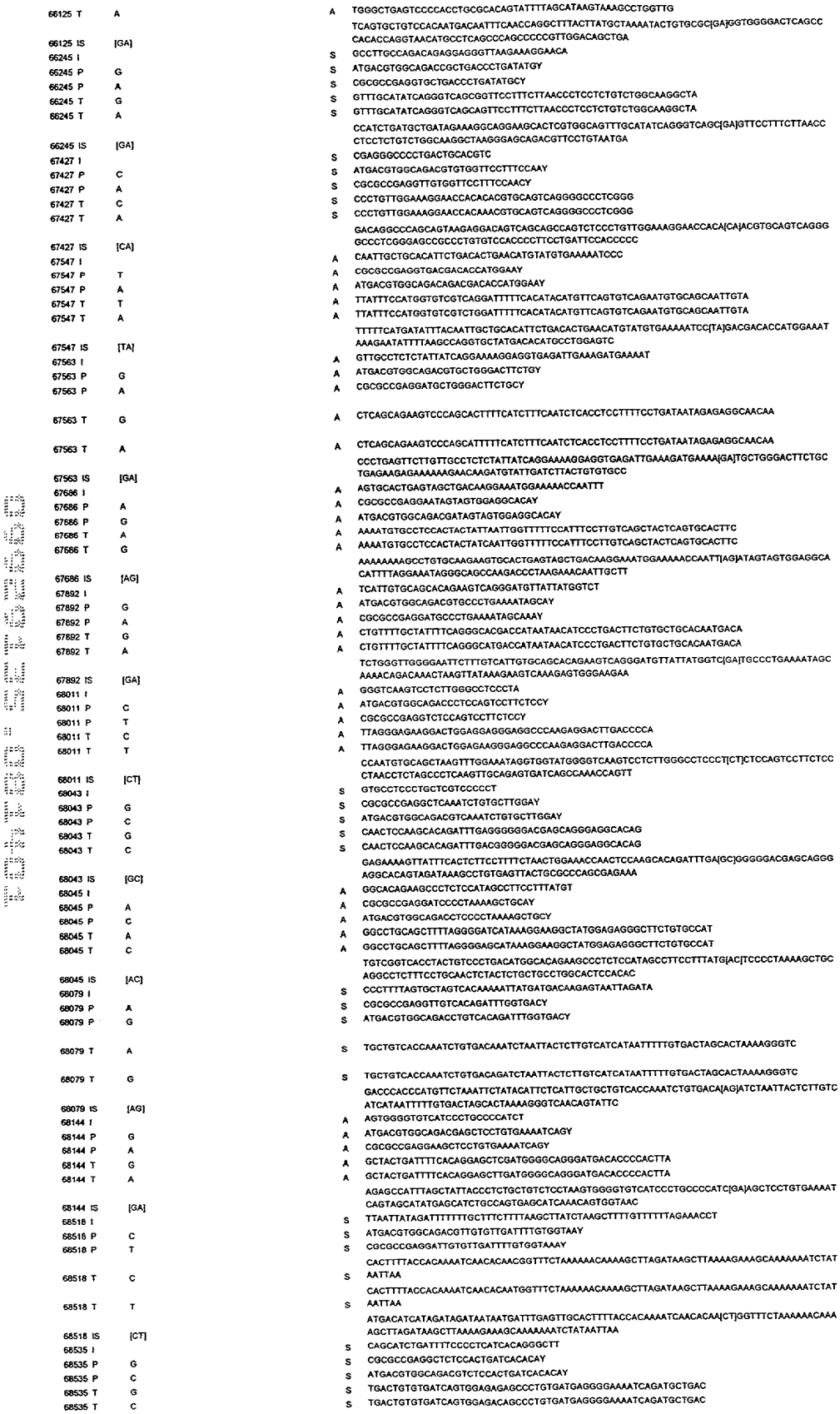

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66245 P G
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66245 P A
S CGCGCCGAGGTGCTGACCCTGATATGCY
66245 T G
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66245 T A
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67427 P C
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67427 P A
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67427 T C
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67427 T A
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67547 P T
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67547 P A
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67563 P G
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67563 P A
A CGCGCCGAGGATGCTGGGACTTCTGCY
67563 T G
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67563 T A
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67686 P A
A CGCGCCGAGGAATAGTAGTGGAGGCACAY
67686 P G
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67686 T A
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67686 T G
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67892 P G
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67892 P A
A CGCGCCGAGGATGCCCTGAAAATAGCAAAY
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67892 T A
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68011 P C
A ATGACGTGGCAGACCCTCCAGTCCTTCTCCY
68011 P T
A CGCGCCGAGGTCTCCAGTCCTTCTCCY
68011 T C
A TTAGGGAGAAGGACTGGAGGAGGGAGGCCCAAGAGGACTTGACCCCA
68011 T T
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68043 P G
S CGCGCCGAGGCTCAAATCTGTGCTTGGAY
68043 P C
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68043 T G
S CAACTCCAAGCACAGATTTGAGGGGGGACGAGCAGGGAGGCACAG
68043 T C
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68045 P A
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68045 P C
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68045 T A
A GGCCTGCAGCTTTTAGGGGATCATAAAGGAAGGCTATGGAGAGGGCTTCTGTGCCAT
68045 T C
A GGCCTGCAGCTTTTAGGGGAGCATAAAGGAAGGCTATGGAGAGGGCTTCTGTGCCAT
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68045 IS [AC]
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68079 I
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68079 P A
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68079 P G
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68079 T A
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68079 T G
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68079 IS [AG]
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68144 I
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68144 P G
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68144 P A
A CGCGCCGAGGAAGCTCCTGTGAAAATCAGY
68144 T G
A GCTACTGATTTTCACAGGAGCTCGATGGGGCAGGGATGACACCCCACTTA
68144 T A
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68518 P C
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68518 P T
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68518 T C
S AATTAA
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68518 T T
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68535 P G
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68535 P C
S ATGACGTGGCAGACGTCTCCACTGATCACACAY
68535 T G
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68535 T C
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FIGURE 129D

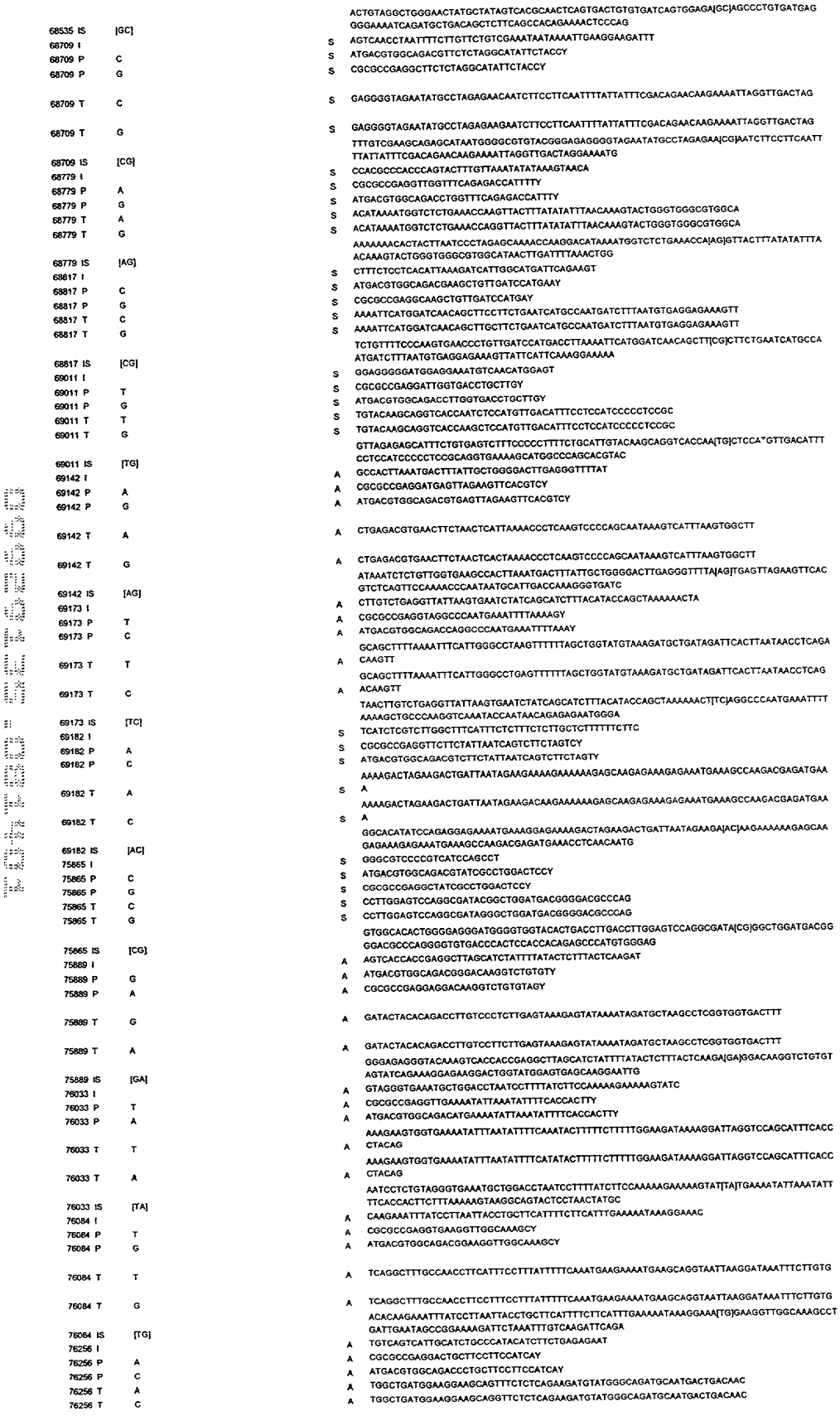

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68817 T G
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69142 T A
69142 T G
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69173 P T
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69173 T T
69173 T C
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69182 I
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69182 T A
69182 T C
69182 IS [AC]
75865 I
75865 P C
75865 P G
75865 T C
75865 T G
75865 IS [CG]
75889 I
75889 P G
75889 P A
75889 T G
75889 T A
75889 IS [GA]
76033 I
76033 P T
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76084 IS [TG]
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FIGURE 129D

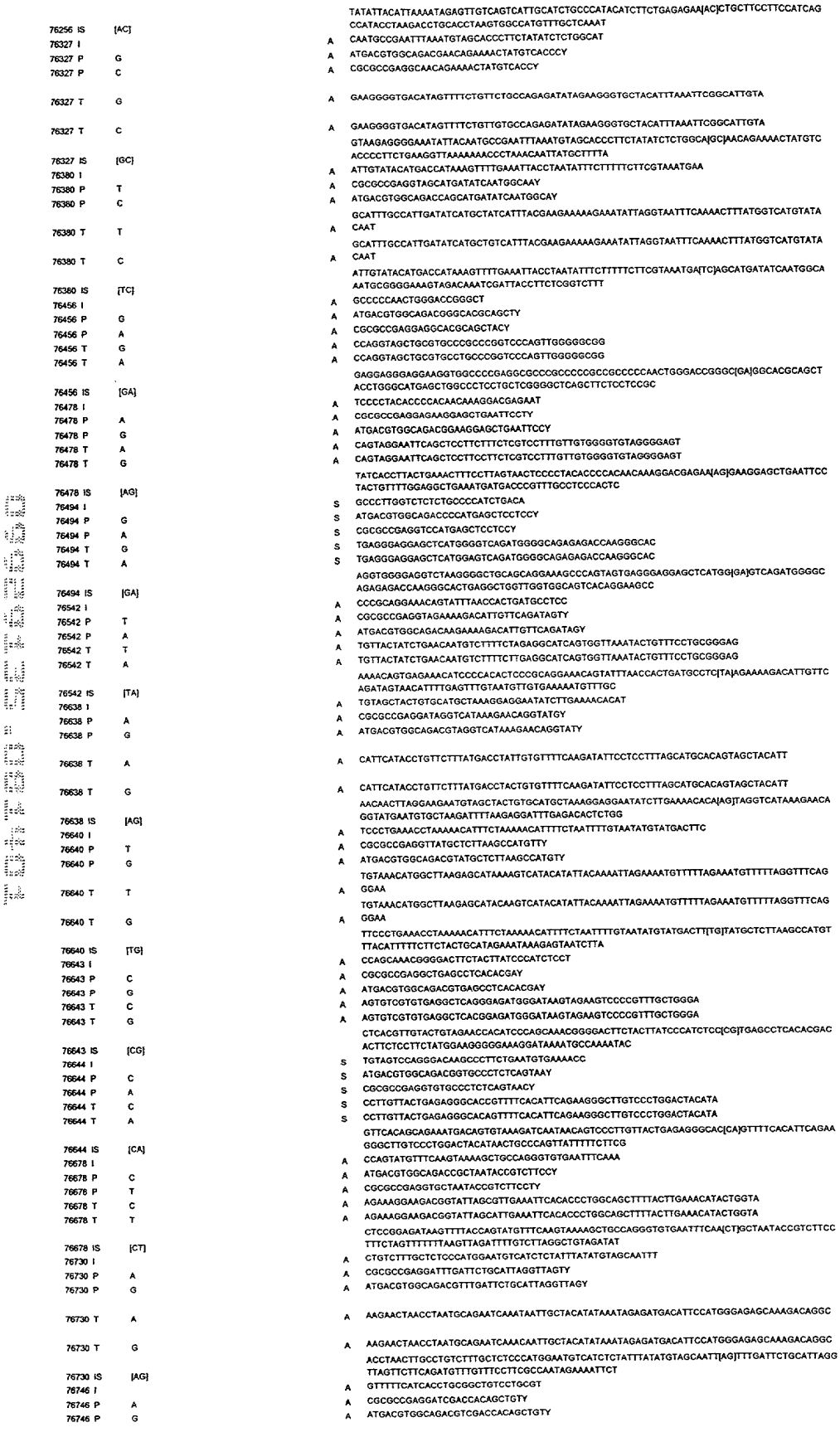


FIGURE 129D

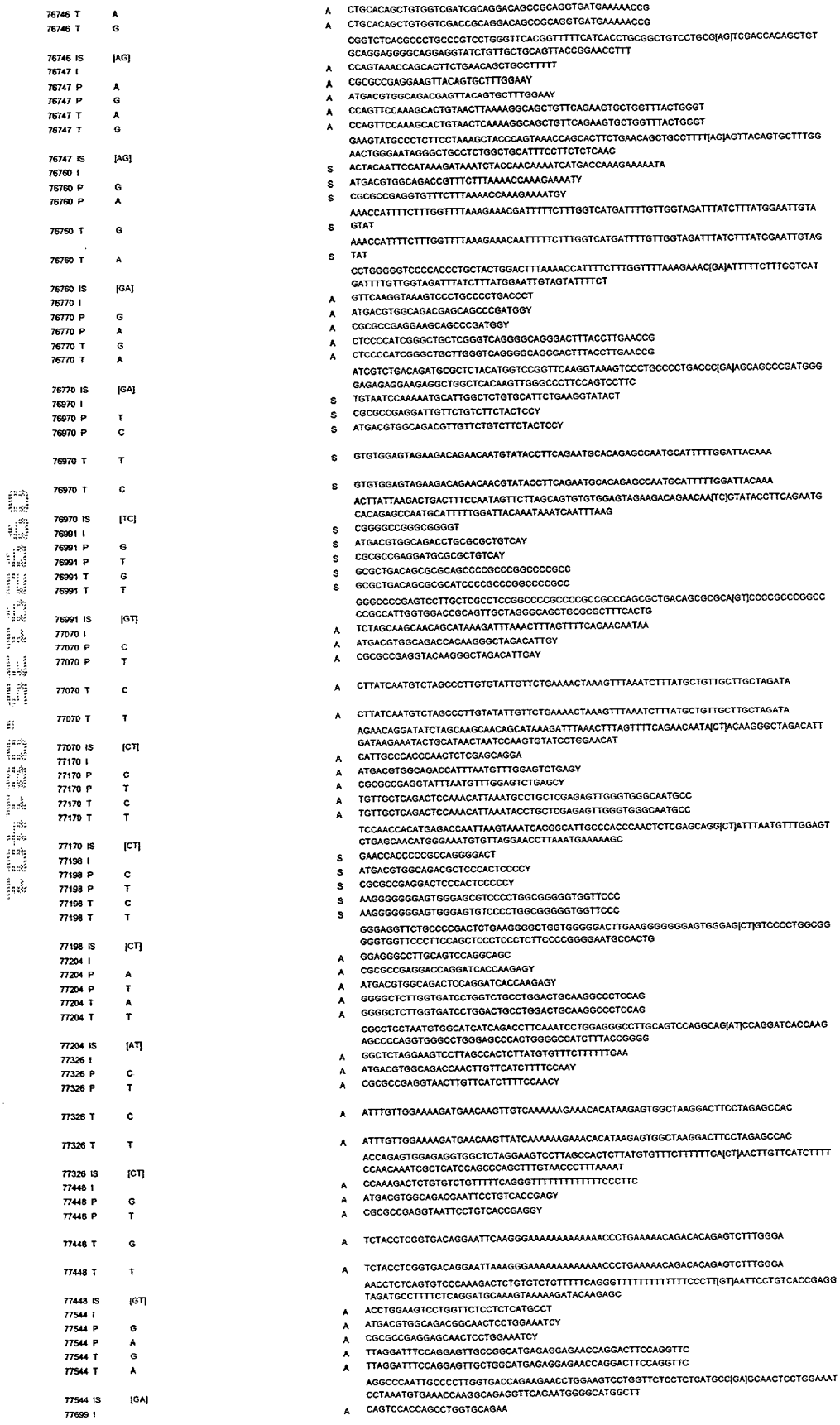

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76746 T G
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77448 T T
77448 IS [GT]
77544 I
77544 P G
77544 P A
77544 T G
77544 T A
77544 IS [GA]
77699 I

FIGURE 129D

77699 P	T	A CGCGCCGAGGTACCTGTTGTATCAGAGCTY
77699 P	C	A ATGACGTGGCAGACCACCTGTTGTATCAGAGCY
77699 T	T	A TCTGAGCTCTGATACAACAGGTATCTGCACCAGGCTGGTGGACTGAC
77699 T	C	A TCTGAGCTCTGATACAACAGGTGTCTGCACCAGGCTGGTGGACTGAC
		TCTCCACCCTGGCCATTCACTAAGTTGTTTTAAAATGTCAGTCCACCAGCCTGGTGCAGA[TC]ACCTGTTGTATCAGAG
		CTCAGACTTGATCTCCTGCCCTTGATGAAGCACTGAGATGTTTA
77699 IS	[TC]	
77728 I		A CCTTCCCGGAGTCTGGTTTAGGGCTGCT
77728 P	G	A ATGACGTGGCAGACGTGCTCAAGAGTCTGGTY
77728 P	A	A CGCGCCGAGGATGCTCAAGAGTCTGGTY
77728 T	G	A CCAAACCAGACTCTTGAGCACGCAGCCCTAAACCAGACTCCGGGAAGGGG
77728 T	A	A CCAAACCAGACTCTTGAGCATGCAGCCCTAAACCAGACTCCGGGAAGGGG
		TCTGAGTCTTAGGCGGTGCATGACCACGCAGCCCCCTTCCCGGAGTCTGGTTTAGGGCTGC[GA]TGCTCAAGAGTCTG
		GTTTGGGGCTGGGTCTTCCCATCGCCCTGGAGGAGGCTTTTGTCTC
77728 IS	[GA]	
77801 I		S CTTTTTGGCACAATGGTGCCACTGTCCA
77801 P	G	S ATGACGTGGCAGACCCATAGTGTTATTTCTTTGGTCY
77801 P	A	S CGCGCCGAGGTCATAGTGTTATTTCTTTGGTCAY
77801 T	G	S TTCATGACCAAAGAAATAACACTATGGGGACAGTGGCACCATTGTGCCAAAAAGGT
77801 T	A	S TTCATGACCAAAGAAATAACACTATGAGGACAGTGGCACCATTGTGCCAAAAAGGT
		GTGCCTTTCTCCTCTTACTGGAAGGGCCTGAAAATTCATGACCAAAGAAATAACACTATG[GA]GGACAGTGGCACCAT
		TGTGCCAAAAAGGTTTTAAAAAATGTTTGCCATGTTGAAAAGGAA
77801 IS	[GA]	
77849 I		S CTGGGCTTAGCTGCTTGCTAACTTTGACCTTGAGA
77849 P	A	S CGCGCCGAGGTGAAGAGTTAGCAGATGATTTAAY
77849 P	G	S ATGACGTGGCAGACCGAAGAGTTAGCAGATGATTY
77849 T	A	S CACTTTAAATCATCTGCTAACTCTTCACTCAAGGTCAAAGTTAGCAAGCAGCTAAGCCCAGCT
77849 T	G	S CACTTTAAATCATCTGCTAACTCTTCGCTCAAGGTCAAAGTTAGCAAGCAGCTAAGCCCAGCT
		AATGGGCTAACCAGCATGAATTCTTTCTACTTTACACTTTAAATCATCTGCTAACTCTTC[AG]CTCAAGGTCAAAGTTAG
		CAAGCAGCTAAGCCCAGCTTTGAGTCCTGCTCCACAAAGTTTA
77849 IS	[AG]	
77885 I		S GCGTGTCTCTCTCTCAACCACCTTCCCCA
77885 P	A	S CGCGCCGAGGTCACCCACCTTCATCTCY
77885 P	G	S ATGACGTGGCAGACCCACCCACCTTCATCTY
77885 T	A	S AAGAGAGATGAAGGTGGGTGAGGGGAAGGTGGTTGAGAGAGAGACACGCGC
77885 T	G	S AAGAGAGATGAAGGTGGGTGGGGGGAAGGTGGTTGAGAGAGAGACACGCGC
		GGATAGAAGGCAGACACTGCCAGCCCACCCTCGGCTGGGAAAGAGAGATGAAGGTGGGTG[AG]GGGGAAGGTGGTT
		GAGAGAGAGACACGCGCCCCGGCTCGGCCAGAGGCCCTCCTCGGGG
77885 IS	[AG]	
77922 I		A GTAAGATCTTGGCCCTAAGACTTTCCTAAGCCGTTCACT
77922 P	A	A CGCGCCGAGGATTCTGAAGCTCAAGAACTGY
77922 P	G	A ATGACGTGGCAGACGTTCTGAAGCTCAAGAACTY
77922 T	A	A AATCCAGTTCTTGAGCTTCAGAATGTGAACGGCTTAGGAAAGTCTTAGGGCCAAGATCTTACAA
77922 T	G	A AATCCAGTTCTTGAGCTTCAGAACGTGAACGGCTTAGGAAAGTCTTAGGGCCAAGATCTTACAA
		AGTGCCCAATGATTGTCCACTTGTAAGATCTTGGCCCTAAGACTTTCCTAAGCCGTTCAC[AG]TTCTGAAGCTCAAGAA
		CTGGATTTTCCTTTCAGTGGATGAAATACAACTCAGCTGCTTAA
77922 IS	[AG]	
78125 I		S CACAGAAGTCATACAGTAGGTCCAGCAAAAACAGAAGAGCC
78125 P	A	S CGCGCCGAGGTGTACACCAAGGCTCATY
78125 P	T	S ATGACGTGGCAGACAGTACACCAAGGCTCATY
78125 T	A	S AAAAATGAGCCTTGGTGTACAGCTCTTCTGTTTTTGCTGGACCTACTGTATGACTTCTGTGTA
78125 T	T	S AAAAATGAGCCTTGGTGTACTGCTCTTCTGTTTTTGCTGGACCTACTGTATGACTTCTGTGTA
		CCAGAGCTAGCTGCTTTTGCTTGCATGCCCTTTGGGTGCTAAAAATGAGCCTTGGTGTAC[AT]GCTCTTCTGTTTTTG
		CTGGACCTACTGTATGACTTCTGTGTAAATCTTGACAGTTGGCAA
78125 IS	[AT]	
78239 I		A GAGGCACCGCCAAGTCGGGGAGATAT
78239 P	C	A ATGACGTGGCAGACCAATCCCAAGAAGGGAAGY
78239 P	A	A CGCGCCGAGGAAATCCCAAGAAGGGAAGY
78239 T	C	A GGCCCTTCCCTTCTTGGGATTGTATCTCCCCGACTTGGCGGTGCCTCTG
78239 T	A	A GGCCCTTCCCTTCTTGGGATTTTATCTCCCCGACTTGGCGGTGCCTCTG
		GAAGAACACATCCGCCGCCAGCAGAAGGAGGAACAGAGGCACCGCCAAGTCGGGGAGATA[CA]AATCCCAAGAAGG
		GAAGGGCCATGGGCGGCTTCTGGAGCCCGGCACTCATCAGTTTGCCA
78239 IS	[CA]	
78260 I		S GCCGGCACATCAACTCTCCAGGTCGTTTC
78260 P	A	S CGCGCCGAGGTGTAGCCTCTCCTCTAAGY
78260 P	T	S ATGACGTGGCAGACAGTAGCCTCTCCTCTAAGTY
78260 T	A	S AGCAACTTAGAGGAGAGGCTACAAAACGACCTGGAGAGTTGATGTGCCGGCTC
78260 T	T	S AGCAACTTAGAGGAGAGGCTACTAAACGACCTGGAGAGTTGATGTGCCGGCTC
		GATACATTTCTCATATTTGTGCGGGGTCAAATGGTAACAGCAACTTAGAGGAGAGGCTAC[AT]AAACGACCTGGAGAG
		TTGATGTGCCGGCTCGGCCTCCCCCAGCTGTGCATGCAAACCCCC
78260 IS	[AT]	
78265 I		S AGGGGCCGGGCCCAGTATCTTCAA
78265 P	A	S CGCGCCGAGGTTGGGGTGTGTACCGY
78265 P	G	S ATGACGTGGCAGACCTGGGGTGTGTACCGY
78265 T	A	S ATCCCGGTACACACCCCAATGAAGATACTGGGCCCGGCCCCTGT
78265 T	G	S ATCCCGGTACACACCCCAGTGAAGATACTGGGCCCGGCCCCTGT
		TTGCCATGCACAGCCCATGGGGAGGGAGTGGTGCTGGTATATATCCCGGTACACACCCCA[AG]TGAAGATACTGGGC
		CCGGCCCCTGTAGTGCCCAGGGGCTAAAGCAATAGAGGGGATTGCT
78265 IS	[AG]	
78284 I		A TGGTTACAATGGTGCAGATCATCTGCTCCTGGAAT
78284 P	A	A CGCGCCGAGGAAACAAAGTCTATGCCCTCY
78284 P	G	A ATGACGTGGCAGACGAACAAAGTCTATGCCCTCY
78284 T	A	A TCTGGAGGGCATAGACTTTGTTTTTCCAGGAGCAGATGATCTGCACCATTGTAACCATT
78284 T	G	A TCTGGAGGGCATAGACTTTGTTCTTCCAGGAGCAGATGATCTGCACCATTGTAACCATT
		TTGGTCACAGTAGCAATAACTGACAATGGTTACAATGGTGCAGATCATCTGCTCCTGGAA[AG]AACAAAGTCTATGCC
		CTCCAGATTAATGGAATCACCTCCAAAACCCCTGCATTGTATCTC
78284 IS	[AG]	
78467 I		A GTCGGCATTCGGGCCTCCACTTCACT
78467 P	A	A CGCGCCGAGGAGACTGCTCTGCTTCATY
78467 P	G	A ATGACGTGGCAGACGGACTGCTCTGCTTCAY
78467 T	A	A GTCCATGAAGCAGAGCAGTCTGTGAAGTGGAGGCCCGAATGCCGACCA
78467 T	G	A GTCCATGAAGCAGAGCAGTCCGTGAAGTGGAGGCCCGAATGCCGACCA
		CAGATCTAGATAATGTAACAGGTATCCACATTTTGGTCGGCATTCGGGCCTCCACTTCAC[AG]GACTGCTCTGCTTCA
		TGGACATTTCCGTGGACACATTCCCTGTCCACTGACCCTGCACCT
78467 IS	[AG]	
78572 I		A GTGCAGGAAGGCTCTGGGGGATAATTA
78572 P	T	A CGCGCCGAGGTGGTTTTACTGTGAAATGTTTCY
78572 P	C	A ATGACGTGGCAGACCGGTTTTACTGTGAAATGTTTY
78572 T	T	A AAAAGAAACATTTCACAGTAAAACCAAATTATCCCCCAGAGCCTTCCTGCACTG
78572 T	C	A AAAAGAAACATTTCACAGTAAAACCGAATTATCCCCCAGAGCCTTCCTGCACTG
		TGTTAGGGGAATTGCTTTAGAGGAGAATATTACAGTGCAGGAAGGCTCTGGGGGATAATT[TC]GGTTTTACTGTGAAA
		TGTTTCTTTTCTTTCACCAAAAGATGGCAGTAACCTCCATCCAAC
78572 IS	[TC]	
80562 I		S CGTTTGTGTTTGGGCCTCAGCTGAGCACC
80562 P	A	S CGCGCCGAGGTGAGGATATAAAGTAGGAACAAGY
80562 P	C	S ATGACGTGGCAGACGGAGGATATAAAGTAGGAACAAGY
80562 T	A	S AAGTCTTGTTCCTACTTTATATCCTCAGTGCTCAGCTGAGGCCCAAACACAAACGGG
80562 T	C	S AAGTCTTGTTCCTACTTTATATCCTCCGTGCTCAGCTGAGGCCCAAACACAAACGGG
		GGCTGGGATCTCAGGCCCTGGCATCAGAGCTTTCAAGTCTTGTTCCTACTTTATATCCTC[AC]GTGCTCAGCTGAGGC
		CCAAACACAAACGGGACCCCATCCCCAAGCCCAGGCCTGCCCTGA
80562 IS	[AC]	
80564 I		S GGGAAGGGAGAAGCAGACATAGTCATTTATGATTTGAAAGTTGGAAT
80564 P	T	S CGCGCCGAGGATTTGTACCATCTGTTTGAGTY

FIGURE 129D

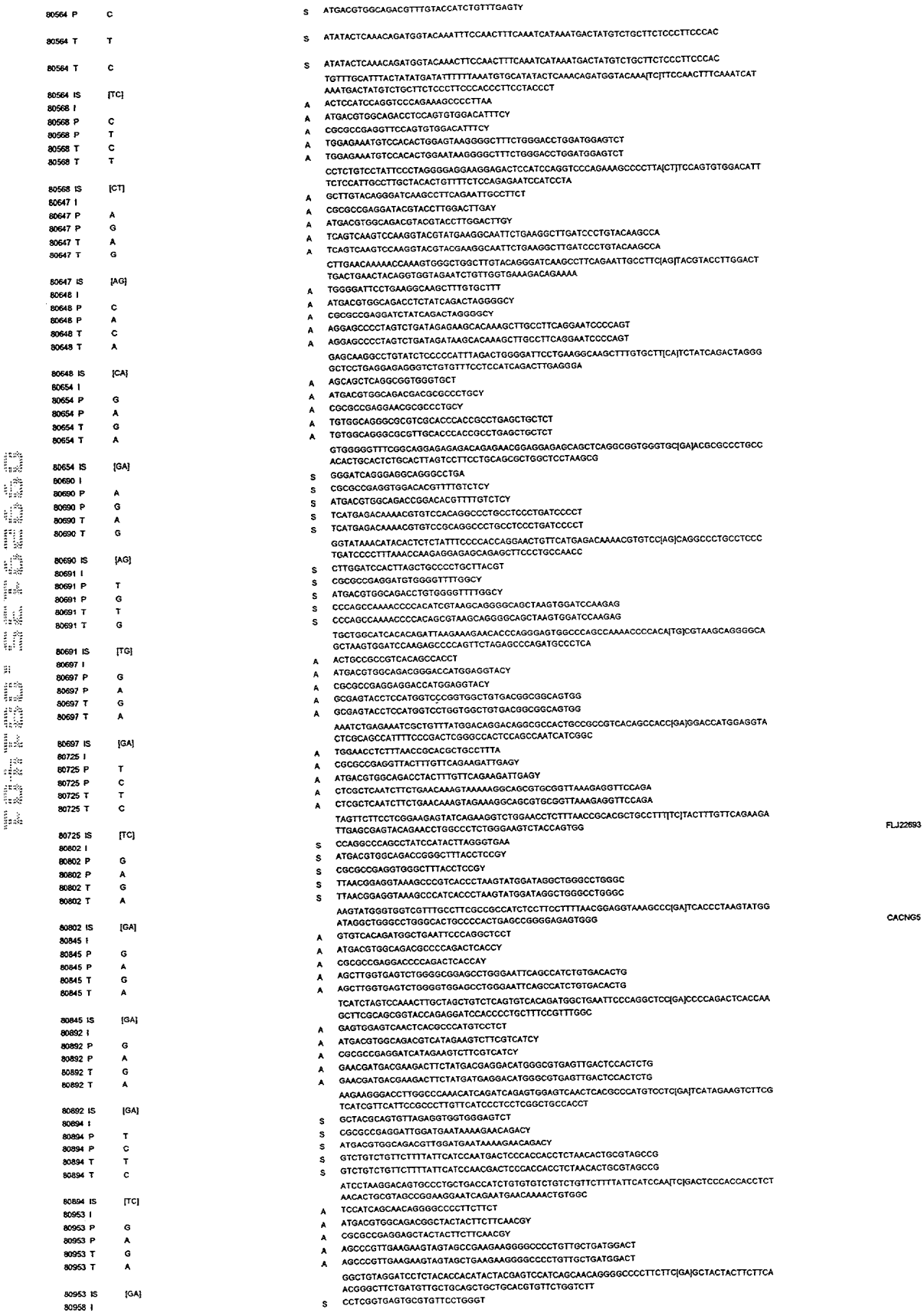

80564 P C
S ATGACGTGGCAGACGTTTGTACCATCTGTTTGAGTY
80564 T T
S ATATACTCAAACAGATGGTACAAATTTCCAACTTTCAAATCATAAATGACTATGTCTGCTTCTCCCTTCCCAC
80564 T C
S ATATACTCAAACAGATGGTACAAACTTCCAACTTTCAAATCATAAATGACTATGTCTGCTTCTCCCTTCCCAC
TGTTTGCATTTACTATATGATATTTTTTAAATGTGCATATACTCAAACAGATGGTACAAA[TC]TTCCAACTTTCAAATCAT
AAATGACTATGTCTGCTTCTCCCTTCCCACCCTTCCTACCCT
80564 IS [TC]
80568 I
A ACTCCATCCAGGTCCCAGAAAGCCCCTTAA
80568 P C
A ATGACGTGGCAGACCTCCAGTGTGGACATTTCY
80568 P T
A CGCGCCGAGGTTCCAGTGTGGACATTTCY
80568 T C
A TGGAGAAATGTCCACACTGGAGTAAGGGGCTTTCTGGGACCTGGATGGAGTCT
80568 T T
A TGGAGAAATGTCCACACTGGAATAAGGGGCTTTCTGGGACCTGGATGGAGTCT
CCTCTGTCCTATTCCCTAGGGGAGGAAGGAGACTCCATCCAGGTCCCAGAAAGCCCCTTA[CT]TCCAGTGTGGACATT
TCTCCATTGCCTTGCTACACTGTTTTCTCCAGAGAATCCATCCTA
80568 IS [CT]
80647 I
A GCTTGTACAGGGATCAAGCCTTCAGAATTGCCTTCT
80647 P A
A CGCGCCGAGGATACGTACCTTGGACTTGAY
80647 P G
A ATGACGTGGCAGACGTACGTACCTTGGACTTGY
80647 T A
A TCAGTCAAGTCCAAGGTACGTATGAAGGCAATTCTGAAGGCTTGATCCCTGTACAAGCCA
80647 T G
A TCAGTCAAGTCCAAGGTACGTACGAAGGCAATTCTGAAGGCTTGATCCCTGTACAAGCCA
CTTGAACAAAAACCAAAGTGGGCTGGCTTGTACAGGGATCAAGCCTTCAGAATTGCCTTC[AG]TACGTACCTTGGACT
TGACTGAACTACAGGTGGTAGAATCTGTTGGTGAAAGACAGAAAA
80647 IS [AG]
80648 I
A TGGGGATTCCTGAAGGCAAGCTTTGTGCTTT
80648 P C
A ATGACGTGGCAGACGTCTATCAGACTAGGGGCY
80648 P A
A CGCGCCGAGGATCTATCAGACTAGGGGCY
80648 T C
A AGGAGCCCCTAGTCTGATAGAGAAGCACAAAGCTTGCCTTCAGGAATCCCCAGT
80648 T A
A AGGAGCCCCTAGTCTGATAGATAAGCACAAAGCTTGCCTTCAGGAATCCCCAGT
GAGCAAGGCCTGTATCTCCCCCATTTAGACTGGGGATTCCTGAAGGCAAGCTTTGTGCTT[CA]TCTATCAGACTAGGG
GCTCCTGAGGAGAGGGTCTGTTGTTTCCTCCATCAGACTTGAGGGA
80648 IS [CA]
80654 I
A AGCAGCTCAGGCGGTGGGTGCT
80654 P G
A ATGACGTGGCAGACGACGCGCCCTGCY
80654 P A
A CGCGCCGAGGAACGCGCCCTGCY
80654 T G
A TGTGGCAGGGCGCGTCGCACCCACCGCCTGAGCTGCTCT
80654 T A
A TGTGGCAGGGCGCGTTGCACCCACCGCCTGAGCTGCTCT
GTGGGGGTTTCGGCAGGAGAGAGACAGAGAACGGAGGAGAGCAGCTCAGGCGGTGGGTGC[GA]ACGCGCCCTGCC
ACACTGCACTCTGCACTTAGTCCTTCCTGCAGCGCTGGCTCCTAAGCG
80654 IS [GA]
80690 I
S GGGATCAGGGAGGCAGGGCCTGA
80690 P A
S CGCGCCGAGGTGGACACGTTTTGTCTCY
80690 P G
S ATGACGTGGCAGACCGGACACGTTTTGTCTCY
80690 T A
S TCATGAGACAAAACGTGTCCACAGGCCCTGCCTCCCTGATCCCCT
80690 T G
S TCATGAGACAAAACGTGTCCGCAGGCCCTGCCTCCCTGATCCCCT
GGTATAAACATACACTCTCTATTTCCCCACCAGGAACTGTTCATGAGACAAAACGTGTCC[AG]CAGGCCCTGCCTCCC
TGATCCCCTTTAAACCAAGAGGAGAGCAGAGCTTCCCTGCCAACC
80690 IS [AG]
80691 I
S CTTGGATCCACTTAGCTGCCCCTGCTTACGT
80691 P T
S CGCGCCGAGGATGTGGGGTTTTGGCY
80691 P G
S ATGACGTGGCAGACCTGTGGGGTTTTGGCY
80691 T T
S CCCAGCCAAAACCCCACATCGTAAGCAGGGGCAGCTAAGTGGATCCAAGAG
80691 T G
S CCCAGCCAAAACCCCACAGCGTAAGCAGGGGCAGCTAAGTGGATCCAAGAG
TGCTGGCATCACACAGATTAAGAAAGAACACCCAGGGAGTGGCCCAGCCAAAACCCCACA[TG]CGTAAGCAGGGGCA
GCTAAGTGGATCCAAGAGCCCCAGTTCTAGAGCCCAGATGCCCTCA
80691 IS [TG]
80697 I
A ACTGCCGCCGTCACAGCCACCT
80697 P G
A ATGACGTGGCAGACGGGACCATGGAGGTACY
80697 P A
A CGCGCCGAGGAGGACCATGGAGGTACY
80697 T G
A GCGAGTACCTCCATGGTCCCGGTGGCTGTGACGGCGGCAGTGG
80697 T A
A GCGAGTACCTCCATGGTCCTGGTGGCTGTGACGGCGGCAGTGG
AAATCTGAGAAATCGCTGTTTATGGACAGGACAGGCGCCACTGCCGCCGTCACAGCCACC[GA]GGACCATGGAGGTA
CTCGCAGCCATTTTCCCGACTCGGGCCACTCCAGCCAATCATCGGC
80697 IS [GA]
80725 I
A TGGAACCTCTTTAACCGCACGCTGCCTTTA
80725 P T
A CGCGCCGAGGTTACTTTGTTCAGAAGATTGAGY
80725 P C
A ATGACGTGGCAGACCTACTTTGTTCAGAAGATTGAGY
80725 T T
A CTCGCTCAATCTTCTGAACAAAGTAAAAAGGCAGCGTGCGGTTAAAGAGGTTCCAGA
80725 T C
A CTCGCTCAATCTTCTGAACAAAGTAGAAAGGCAGCGTGCGGTTAAAGAGGTTCCAGA
TAGTTCTTCCTCGGAAGAGTATCAGAAGGTCTGGAACCTCTTTAACCGCACGCTGCCTTT[TC]TACTTTGTTCAGAAGA
TTGAGCGAGTACAGAACCTGGCCCTCTGGGAAGTCTACCAGTGG
FLJ22693
80725 IS [TC]
80802 I
S CCAGGCCCAGCCTATCCATACTTAGGGTGAA
80802 P G
S ATGACGTGGCAGACCGGGCTTTACCTCCGY
80802 P A
S CGCGCCGAGGTGGGCTTTACCTCCGY
80802 T G
S TTAACGGAGGTAAAGCCCGTCACCCTAAGTATGGATAGGCTGGGCCTGGGC
80802 T A
S TTAACGGAGGTAAAGCCCATCACCCTAAGTATGGATAGGCTGGGCCTGGGC
AAGTATGGGTGGTCGTTTGCCTTCGCCGCCATCTCCTTCCTTTTAACGGAGGTAAAGCCC[GA]TCACCCTAAGTATGG
ATAGGCTGGGCCTGGGCACTGCCCCACTGAGCCGGGGAGAGTGGG
CACNG5
80802 IS [GA]
80845 I
A GTGTCACAGATGGCTGAATTCCCAGGCTCCT
80845 P G
A ATGACGTGGCAGACGCCCCAGACTCACCY
80845 P A
A CGCGCCGAGGACCCCAGACTCACCAY
80845 T G
A AGCTTGGTGAGTCTGGGGCGGAGCCTGGGAATTCAGCCATCTGTGACACTG
80845 T A
A AGCTTGGTGAGTCTGGGGTGGAGCCTGGGAATTCAGCCATCTGTGACACTG
TCATCTAGTCCAAACTTGCTAGCTGTCTCAGTGTCACAGATGGCTGAATTCCCAGGCTCC[GA]CCCCAGACTCACCAA
GCTTCGCAGCGGTACCAGAGGATCCACCCCTGCTTTCCGTTTGGC
80845 IS [GA]
80892 I
A GAGTGGAGTCAACTCACGCCCATGTCCTCT
80892 P G
A ATGACGTGGCAGACGTCATAGAAGTCTTCGTCATCY
80892 P A
A CGCGCCGAGGATCATAGAAGTCTTCGTCATCY
80892 T G
A GAACGATGACGAAGACTTCTATGACGAGGACATGGGCGTGAGTTGACTCCACTCTG
80892 T A
A GAACGATGACGAAGACTTCTATGATGAGGACATGGGCGTGAGTTGACTCCACTCTG
AAGAAGGGACCTTGGCCCAAACATCAGATCAGAGTGGAGTCAACTCACGCCCATGTCCTC[GA]TCATAGAAGTCTTCG
TCATCGTTCATTCCGCCCTTGTTCATCCCTCCTCGGCTGCCACCT
80892 IS [GA]
80894 I
S GCTACGCAGTGTTAGAGGTGGTGGGAGTCT
80894 P T
S CGCGCCGAGGATTGGATGAATAAAAGAACAGACY
80894 P C
S ATGACGTGGCAGACGTTGGATGAATAAAAGAACAGACY
80894 T T
S GTCTGTCTGTTCTTTTATTCATCCAATGACTCCCACCACCTCTAACACTGCGTAGCCG
80894 T C
S GTCTGTCTGTTCTTTTATTCATCCAACGACTCCCACCACCTCTAACACTGCGTAGCCG
ATCCTAAGGACAGTGCCCTGCTGACCATCTGTGTGTCTGTCTGTTCTTTTATTCATCCAA[TC]GACTCCCACCACCTCT
AACACTGCGTAGCCGGAAGGAATCAGAATGAACAAAACTGTGGC
80894 IS [TC]
80953 I
A TCCATCAGCAACAGGGGCCCCTTCTTCT
80953 P G
A ATGACGTGGCAGACGGCTACTACTTCTTCAACGY
80953 P A
A CGCGCCGAGGAGCTACTACTTCTTCAACGY
80953 T G
A AGCCCGTTGAAGAAGTAGTAGCCGAAGAAGGGGCCCCTGTTGCTGATGGACT
80953 T A
A AGCCCGTTGAAGAAGTAGTAGCTGAAGAAGGGGCCCCTGTTGCTGATGGACT
GGCTGTAGGATCCTCTACACCACATACTACGAGTCCATCAGCAACAGGGGCCCCTTCTTC[GA]GCTACTACTTCTTCA
ACGGGCTTCTGATGTTGCTGCAGCTGCTGCACGTGTTCTGGTCTT
80953 IS [GA]
80958 I
S CCTCGGTGAGTGCGTGTTCCTGGGT

FIGURE 129D

80958 P	T	S	CGCGCCGAGGACTGGGAGGAATTGGTY	
80958 P	C	S	ATGACGTGGCAGACGCTGGGAGGAATTGGTY	
80958 T	T	S	AGTGACCAATTCCTCCCAGTCCCAGGAACACGCACTCACCGAGGCT	
80958 T	C	S	AGTGACCAATTCCTCCCAGCCCCAGGAACACGCACTCACCGAGGCT	
			ACCCCAATCGGGGGACACAAGCTGCCCCCAGGCCCCCTGGAAGTGACCAATTCCTCCCAG[TC]CCCAGGAACACGCA	
			CTCACCGAGGCTTTGCACACGGAGTCCGCGTGAAATCGACTAAAAT	
80958 IS	[TC]			
80959 I		S	CCTCGCCTCGGACCTTGCCTGGT	
80959 P	G	S	ATGACGTGGCAGACCGCTATTTTTGCAGGGAY	
80959 P	T	S	CGCGCCGAGGAGCTATTTTTGCAGGGAGY	
80959 T	G	S	CCAGCTCCCTGCAAAAATAGCGCCAGGCAAGGTCCGAGGCGAGGGC	
80959 T	T	S	CCAGCTCCCTGCAAAAATAGCTCCAGGCAAGGTCCGAGGCGAGGGC	
			CAATATGGAGAGCACTCAGGTCCGAGGCGTTCCTGCTCCCCAGCTCCCTGCAAAAATAGC[GT]CCAGGCAAGGTCCG	
80959 IS	[GT]		AGGCGAGGGCGATGCTTCCATGAGGGTCCCGCCGACTGCGTCGCGA	MGC2633
80996 I		A	CATTTACTCACGGAGCGGGCCTGCGC	
80996 P	T	A	CGCGCCGAGGTGAGGGCTGGACCAY	
80996 P	G	A	ATGACGTGGCAGACGGAGGGCTGGACCY	
80996 T	T	A	GCACTGGTCCAGCCCTCACGCAGGCCCGCTCCGTGAGTAAATGGC	
80996 T	G	A	GCACTGGTCCAGCCCTCCCGCAGGCCCGCTCCGTGAGTAAATGGC	
			CCTTCCTCCACTGCATTCCTGCAAGAGAAGAGAGCCATTTACTCACGGAGCGGGCCTGCG[TG]GAGGGCTGGACCAG	
80996 IS	[TG]		TGCATCGGTTGCTGCAAGGGGCAGTGGTGACTCGCCCAGATTGATG	
81220 I		A	AGAGGGGAGTGATCTCATCGCCACTGATTTTTCCA	
81220 P	C	A	ATGACGTGGCAGACCAACTTTCAGTTTTGTATCTCCY	
81220 P	T	A	CGCGCCGAGGTAACTTTCAGTTTTGTATCTCCAY	
81220 T	C	A	ACCATGGAGATACAAAACTGAAAGTTGGGAAAAATCAGTGGCGATGAGATCACTCCCCTCTGT	
81220 T	T	A	ACCATGGAGATACAAAACTGAAAGTTAGGAAAAATCAGTGGCGATGAGATCACTCCCCTCTGT	
			CAGTCCCCTGAAATGGAAAGACACACAGAGGGGAGTGATCTCATCGCCACTGATTTTTCC[CT]AACTTTCAGTTTTGTA	
81220 IS	[CT]		TCTCCATGGTGGAACTCGATACAGCAGCATCCCTCAGTGGTTCC	
81256 I		A	TGCGCAGCCACAACTAGAAAGAAAATAGGGA	
81256 P	C	A	ATGACGTGGCAGACCGCCTGTTTAAAGCAAATGY	
81256 P	T	A	CGCGCCGAGGTGCCTGTTTAAAGCAAATGY	
81256 T	C	A	TTTTCATTTGCTTTAAACAGGCGCCCTATTTTCTTTCTAGTTGTGGCTGCGCAAA	
81256 T	T	A	TTTTCATTTGCTTTAAACAGGCACCCTATTTTCTTTCTAGTTGTGGCTGCGCAAA	
			AGCACATCTTATTTGGGAGATAAATGTTTTTGCGCAGCCACAACTAGAAAGAAAATAGGG[CT]GCCTGTTTAAAGCAAA	
81256 IS	[CT]		TGAAAATAGGCAGAATTATTAGGAAGATCAGGCACCTTCTATTT	
81284 I		S	GCACAGGATGGGTTTCTGCAGCTCATTTAGCTT	
81284 P	T	S	CGCGCCGAGGAGAAAGTGAGTCCACACTY	
81284 P	C	S	ATGACGTGGCAGACGGAAAGTGAGTCCACACY	
81284 T	T	S	TTCTAGTGTGGACTCACTTTCTAGCTAAATGAGCTGCAGAAACCCATCCTGTGCTC	
81284 T	C	S	TTCTAGTGTGGACTCACTTTCCAGCTAAATGAGCTGCAGAAACCCATCCTGTGCTC	
			CCACACCTGCCAAGAGGAAACTGGTTGTCAGGGGCTCATTCTAGTGTGGACTCACTTTC[TC]AGCTAAATGAGCTGC	
			AGAAACCCATCCTGTGCTCCCTAGTAACCTGGCCACACCCAGTAA	
81284 IS	[TC]			
81293 I		A	GCAGCTCACTATCCTCCACTAGTCCCAGGTTTC	
81293 P	G	A	ATGACGTGGCAGACGACCGTTTCTCAAACCGY	
81293 P	T	A	CGCGCCGAGGTACCGTTTCTCAAACCGY	
81293 T	G	A	GGCACGGTTTGAGAAACGGTCAAACCTGGGACTAGTGGAGGATAGTGAGCTGCCG	
81293 T	T	A	GGCACGGTTTGAGAAACGGTAAAACCTGGGACTAGTGGAGGATAGTGAGCTGCCG	
			TAGCTGACCCAGTCGGCCACCGTAGTCGGCAGCTCACTATCCTCCACTAGTCCCAGGTTT[GT]ACCGTTTCTCAAACC	
81293 IS	[GT]		GTGCCTTCCCATTTATGCTGCATCCGCGCCCTGAATCTGAAATTG	
81427 I		A	CCAGGGGTACTGGAACGAGGGGCGA	
81427 P	C	A	ATGACGTGGCAGACCGCCGTGGCCAY	
81427 P	T	A	CGCGCCGAGGTGCCGTGGCCAGY	
81427 T	C	A	CCCCCTGGCCACGGCGCGCCCCTCGTTCCAGTACCCCTGGCA	
81427 T	T	A	CCCCCTGGCCACGGCACGCCCCTCGTTCCAGTACCCCTGGCA	
			GCTGAGTGCGGCCCCCCAGCACGCTAAGAGCCGCTGCCAGGGGTACTGGAACGAGGGGCG[CT]GCCGTGGCCAGG	
81427 IS	[CT]		GGGGACAGACGCCTACTCACGGGGCAGCAGCTAGCTCAGGAAATCAAG	ZNF179
81466 I		A	CACAAAGGGGAGGCTGGCCACCAT	
81466 P	G	A	ATGACGTGGCAGACGGATGATGGTGAGCACY	
81466 P	A	A	CGCGCCGAGGAGATGATGGTGAGCACAY	
81466 T	G	A	CGTTTGTGCTCACCATCATCCTGGTGGCCAGCCTCCCCTTTGTGCA	
81466 T	A	A	CGTTTGTGCTCACCATCATCTTGGTGGCCAGCCTCCCCTTTGTGCA	
			CCTGGGTCCCCAGCAGGCTCCGTTTCTTGGTGTCCTGCACAAAGGGGAGGCTGGCCACCA[GA]GATGATGGTGAGC	
81466 IS	[GA]		ACAAACGTGGTGACAATGCCCGCCCCAGCCACGGCCTCCAGGACGAT	GPRC5C
81528 I		A	GCCAGCCTGGGTGGCCCCTTT	
81528 P	G	A	ATGACGTGGCAGACGAACAGAGCCAGCAGTY	
81528 P	A	A	CGCGCCGAGGAAACAGAGCCAGCAGTY	
81528 T	G	A	ACTAACTGCTGGCTCTGTTCAAGGGGCCACCCAGGCTGGCCT	
81528 T	A	A	ACTAACTGCTGGCTCTGTTTAAGGGGCCACCCAGGCTGGCCT	
			AACTTGCCAAAAGGCCAAAGCCAAGCTTAAGCCCAGTGAGGCCAGCCTGGGTGGCCCCTT[GA]AACAGAGCCAGCAG	
81528 IS	[GA]		TTAGTTGTGTGGGGAGGGCTCCTGACACGGGGGCAGGGGAAGGAGC	
81543 I		A	GGGAAGACCGAGGCCGAATTGCAGGA	
81543 P	C	A	ATGACGTGGCAGACCTCCTCCTGGGGCY	
81543 P	T	A	CGCGCCGAGGTTCCTCCTGGGGCY	
81543 T	C	A	TTTGGCCCCAGGAGGAGCCTGCAATTCGGCCTCGGTCTTCCCAG	
81543 T	T	A	TTTGGCCCCAGGAGGAACCTGCAATTCGGCCTCGGTCTTCCCAG	
			CTTACTGTGCTGTATCCCCATGGGCGGCACACGCTGGGAAGACCGAGGCCGAATTGCAGG[CT]TCCTCCTGGGGCC	
81543 IS	[CT]		AAATGCTGTCATCTCTGAAGGCCAGGTATCCCCGAGATGGACGAGCA	TDGF1
81559 I		S	CCAGGAGCCCAGCAAGCCACCAT	
81559 P	C	S	ATGACGTGGCAGACGAAGCACCCTTCAATAGGY	
81559 P	T	S	CGCGCCGAGGAAAGCACCCTTCAATAGGY	
81559 T	C	S	CTTCCCTATTGAAGGGTGCTTCTGGTGGCTTGCTGGGCTCCTGGGA	
81559 T	T	S	CTTCCCTATTGAAGGGTGCTTTTGGTGGCTTGCTGGGCTCCTGGGA	
			CCAGGGTTCTATTGGGTAGGGGTGGGTCGGATTCGAATCCTTCCCTATTGAAGGGTGCTT[CT]TGGTGGCTTGCTGG	
81559 IS	[CT]		GCTCCTGGGACGGGCACTGTGCATTTTAATTGCTTTATCTAGGAGG	
81562 I		A	CCCCTTCTACCCCAACACTCGACTATCACTCTTGT	
81562 P	G	A	ATGACGTGGCAGACGCCCTGAAAATTCTACCAY	
81562 P	A	A	CGCGCCGAGGACCCTGAAAATTCTACCAGY	
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81562 T	A	A	TGGCCTGGTAGAATTTTCAGGGTCAAGAGTGATAGTCGAGTGTTGGGGTAGAAGGGGCC	
			TCAGTGAGTCCAAACCTGGGCCCAGGCCCCTTCTACCCCAACACTCGACTATCACTCTTG[GA]CCCTGAAAATTCTAC	
81562 IS	[GA]		CAGGCCAGGGCATTATTCTCCGGAGGCCTCAAACTAGCATCCTCA	
81577 I		S	CAGGAGAAACAGGAAGGACAGAGCTGGGGT	
81577 P	C	S	ATGACGTGGCAGACGCAGGAGGAACAGGAY	
81577 P	T	S	CGCGCCGAGGACAGGAGGAACAGGACY	
81577 T	C	S	CTCCGTCCTGTTCCTCCTGCCCCCAGCTCTGTCCTTCCTGTTTCTCCTGCC	
81577 T	T	S	CTCCGTCCTGTTCCTCCTGTCCCCAGCTCTGTCCTTCCTGTTTCTCCTGCC	
			TCCTCCTGCCCCCAGCTCTGTCCTGTTAATCATGCCCCTAGCTCCGTCCTGTTCCTCCTG[CT]CCCCAGCTCTGTCCT	
81577 IS	[CT]		TCCTGTTTCTCCTGCCTCCAGCTCCATCTTGTTACTCCTGCCCCA	
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81579 P	A	S	CGCGCCGAGGTACCTTTTGCTCCCGTY	

FIGURE 129D

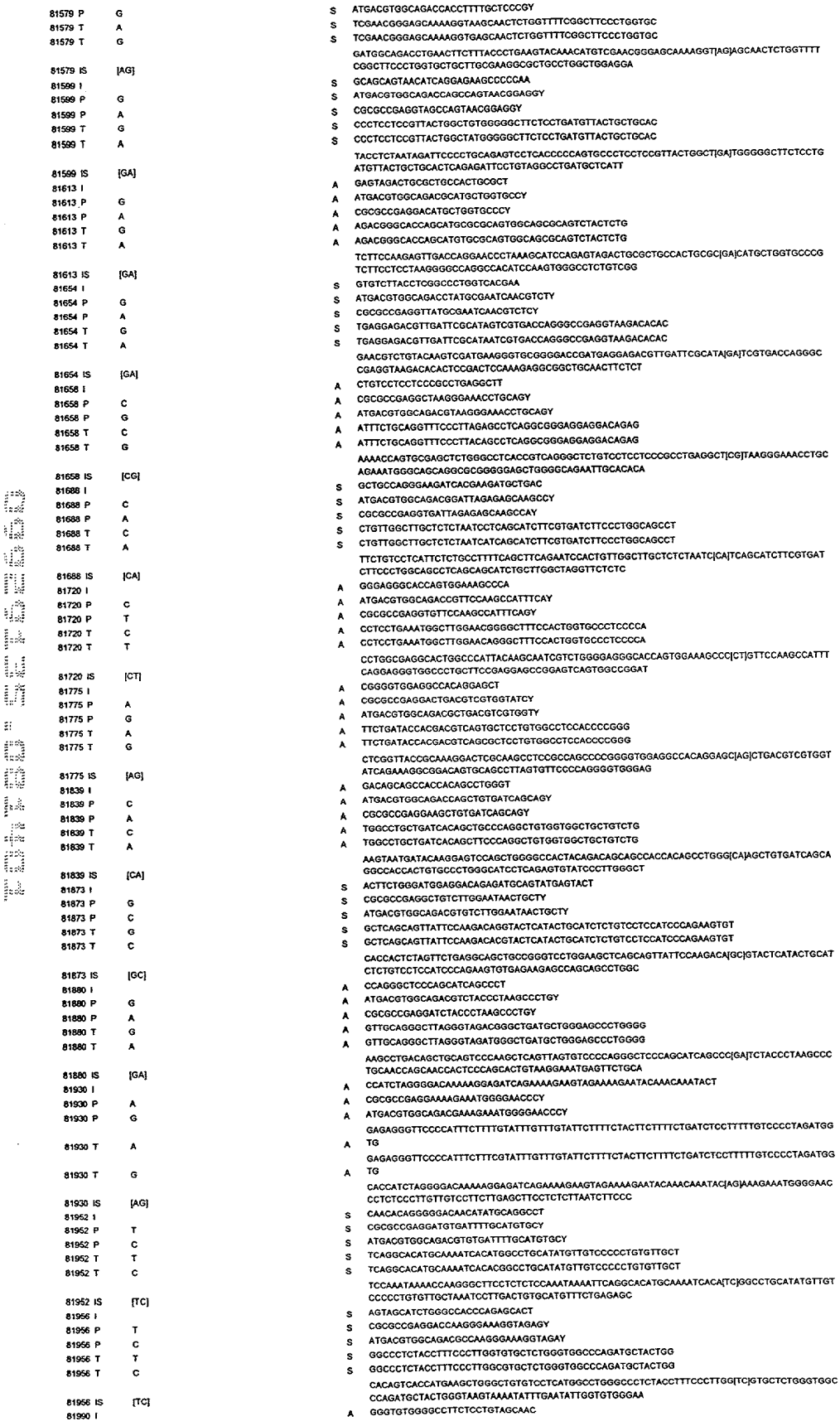

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FIGURE 129D

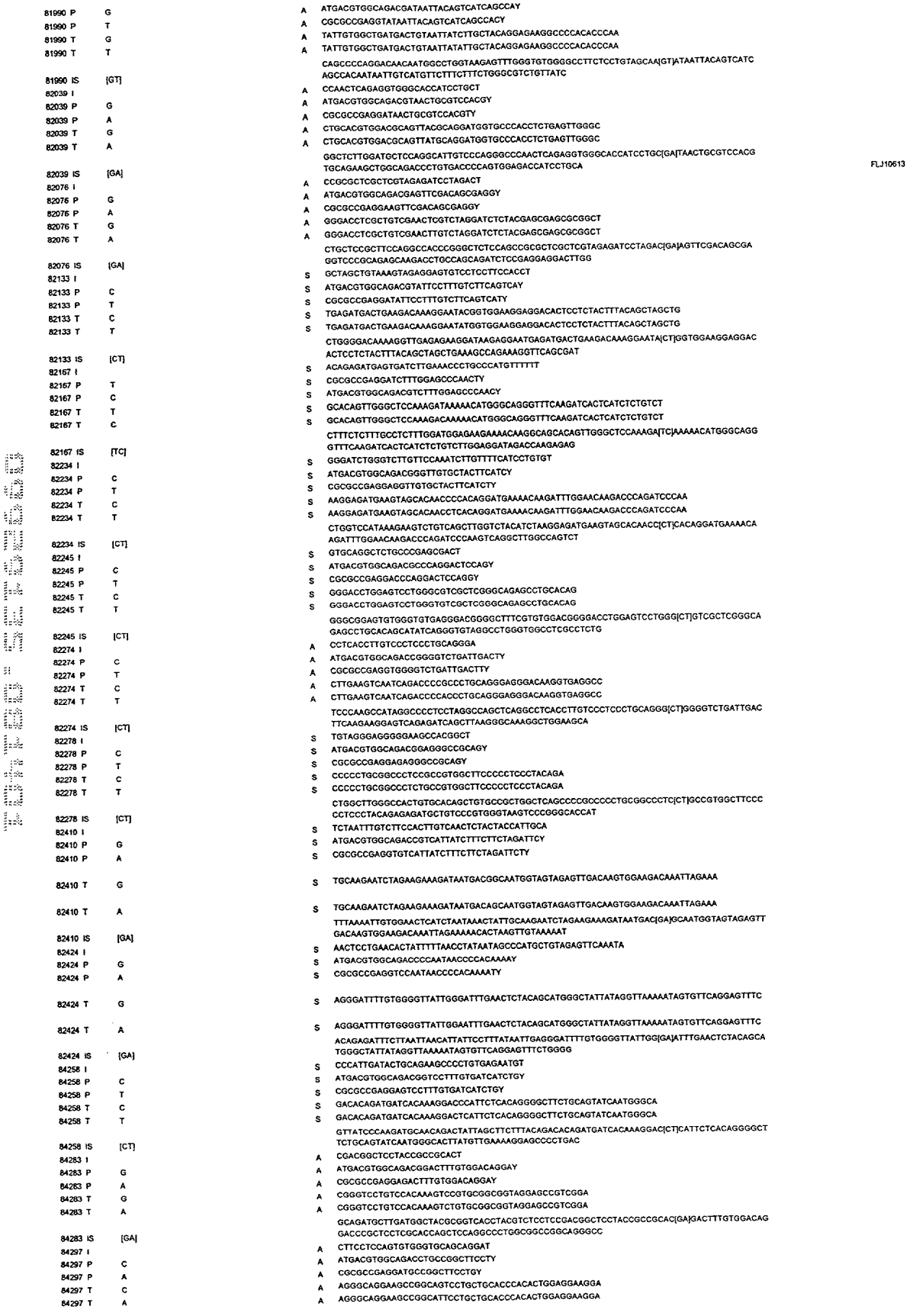

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FIGURE 129D

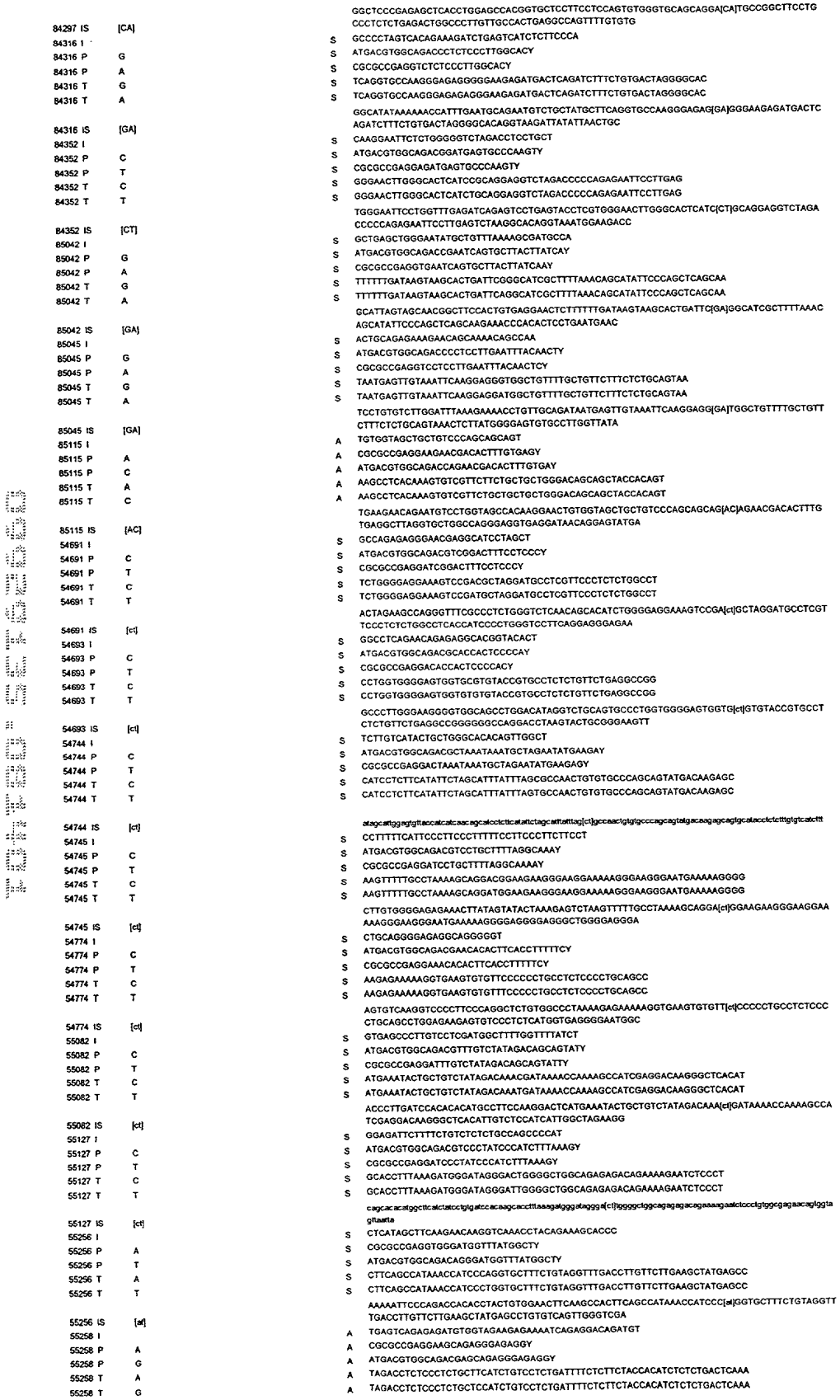

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FIGURE 129D

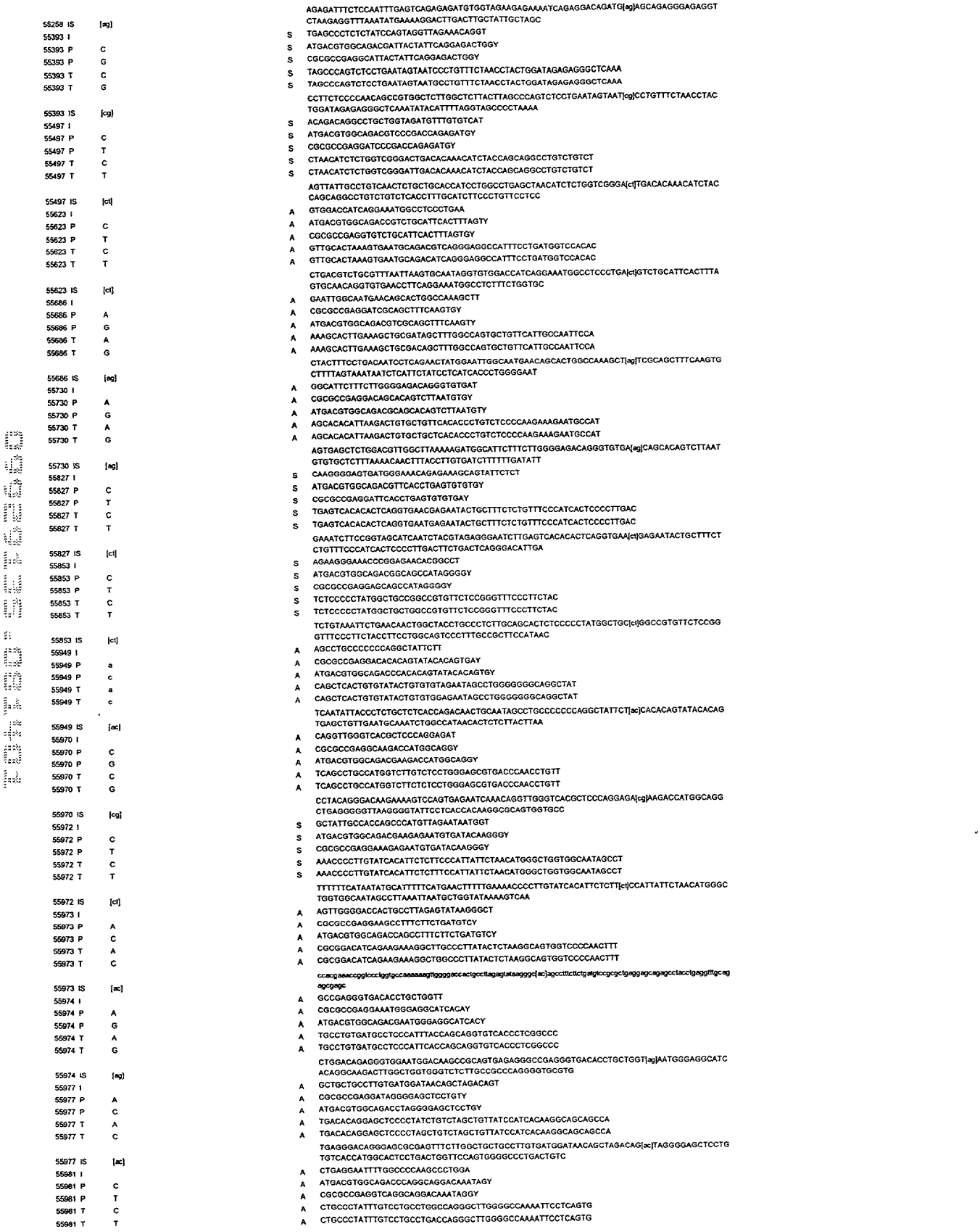


FIGURE 129D

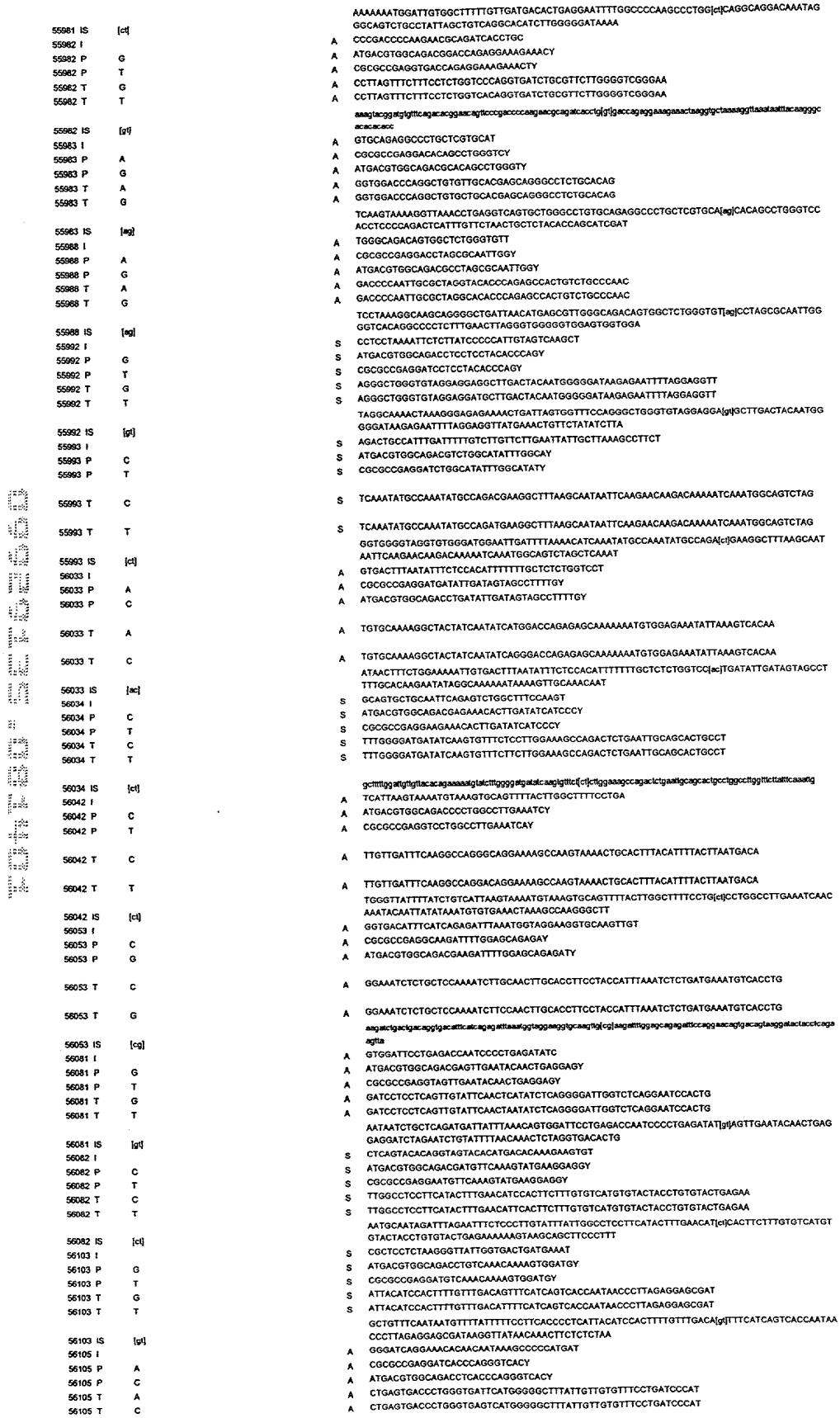

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FIGURE 129D

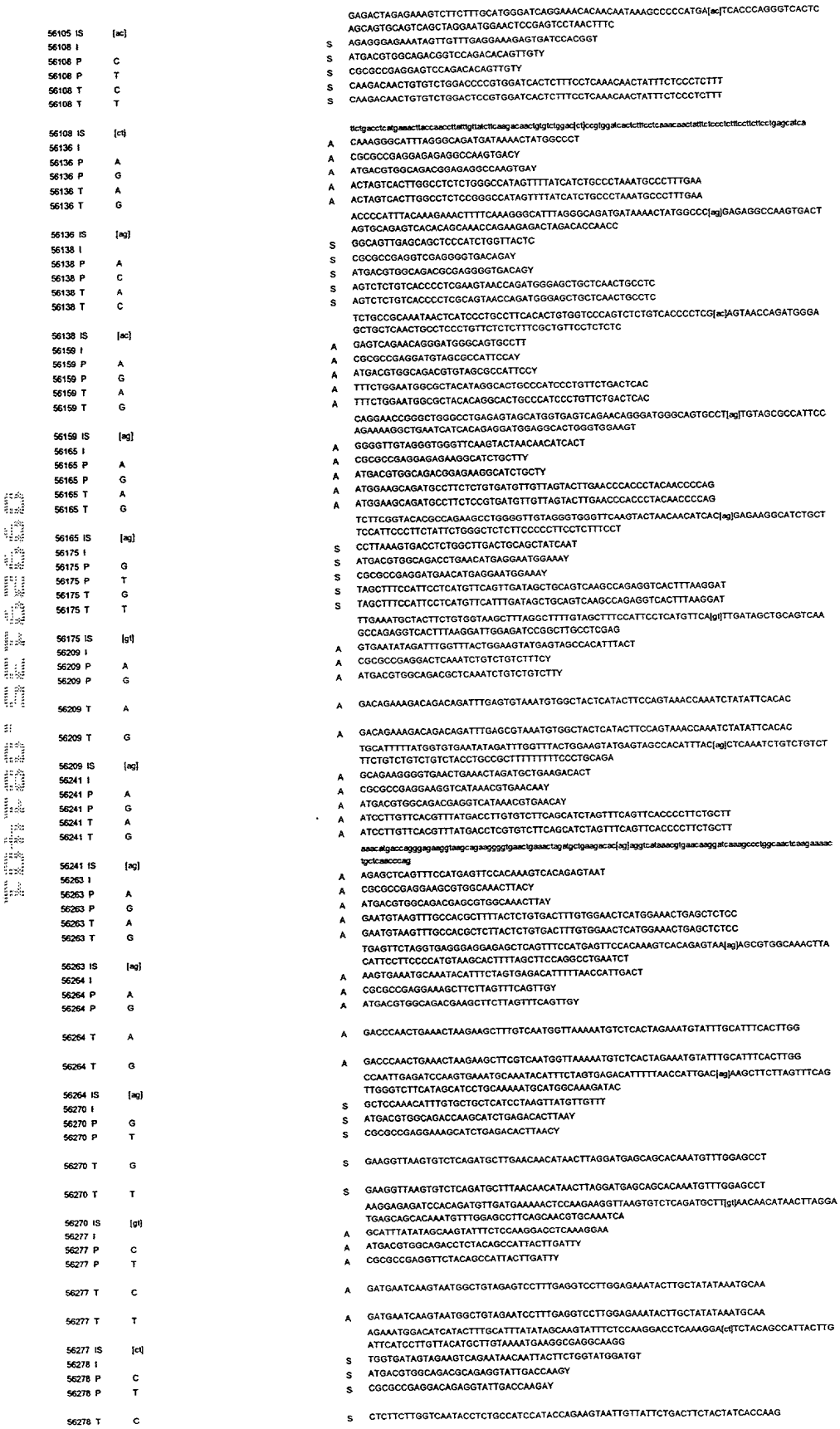

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FIGURE 129D

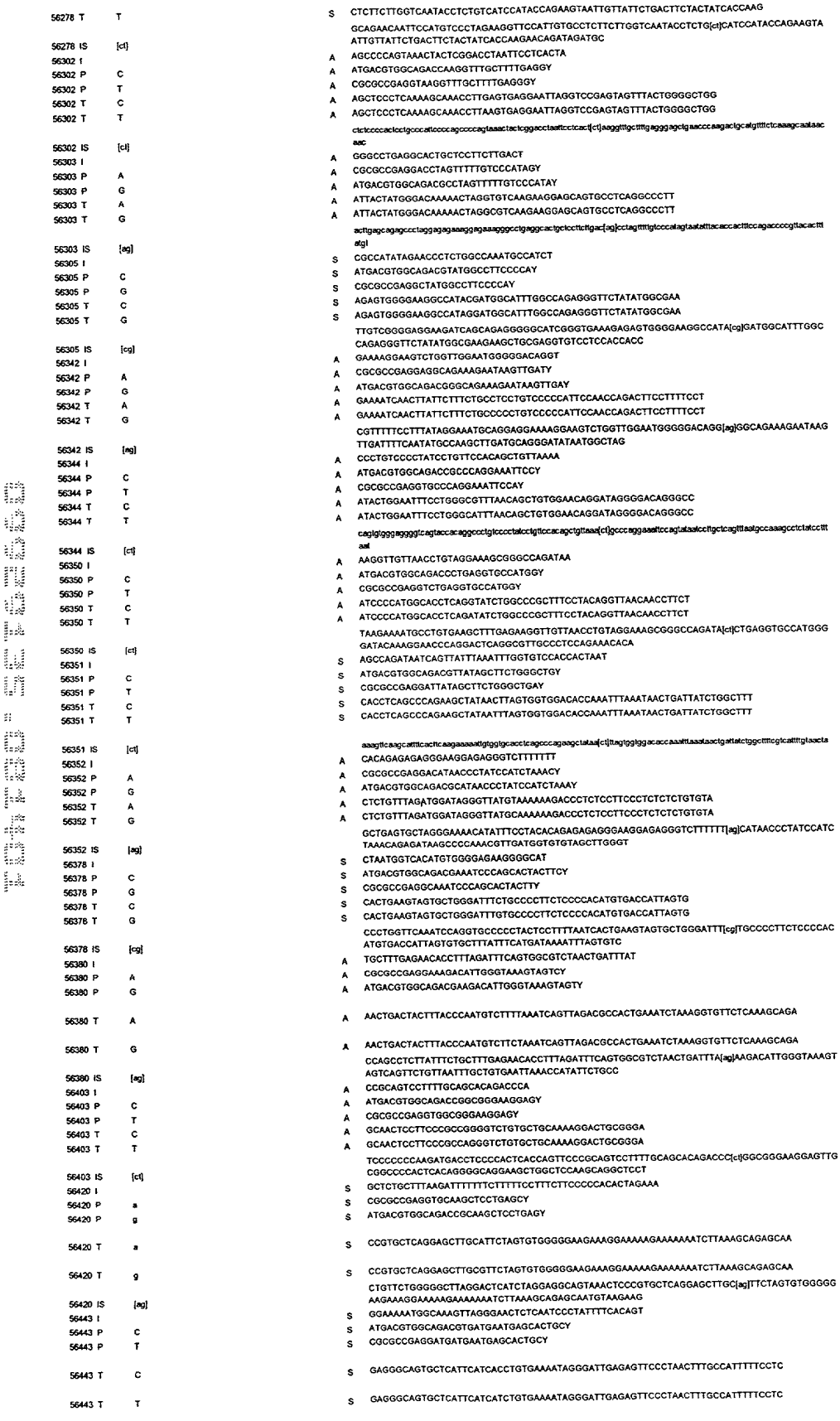


FIGURE 129D

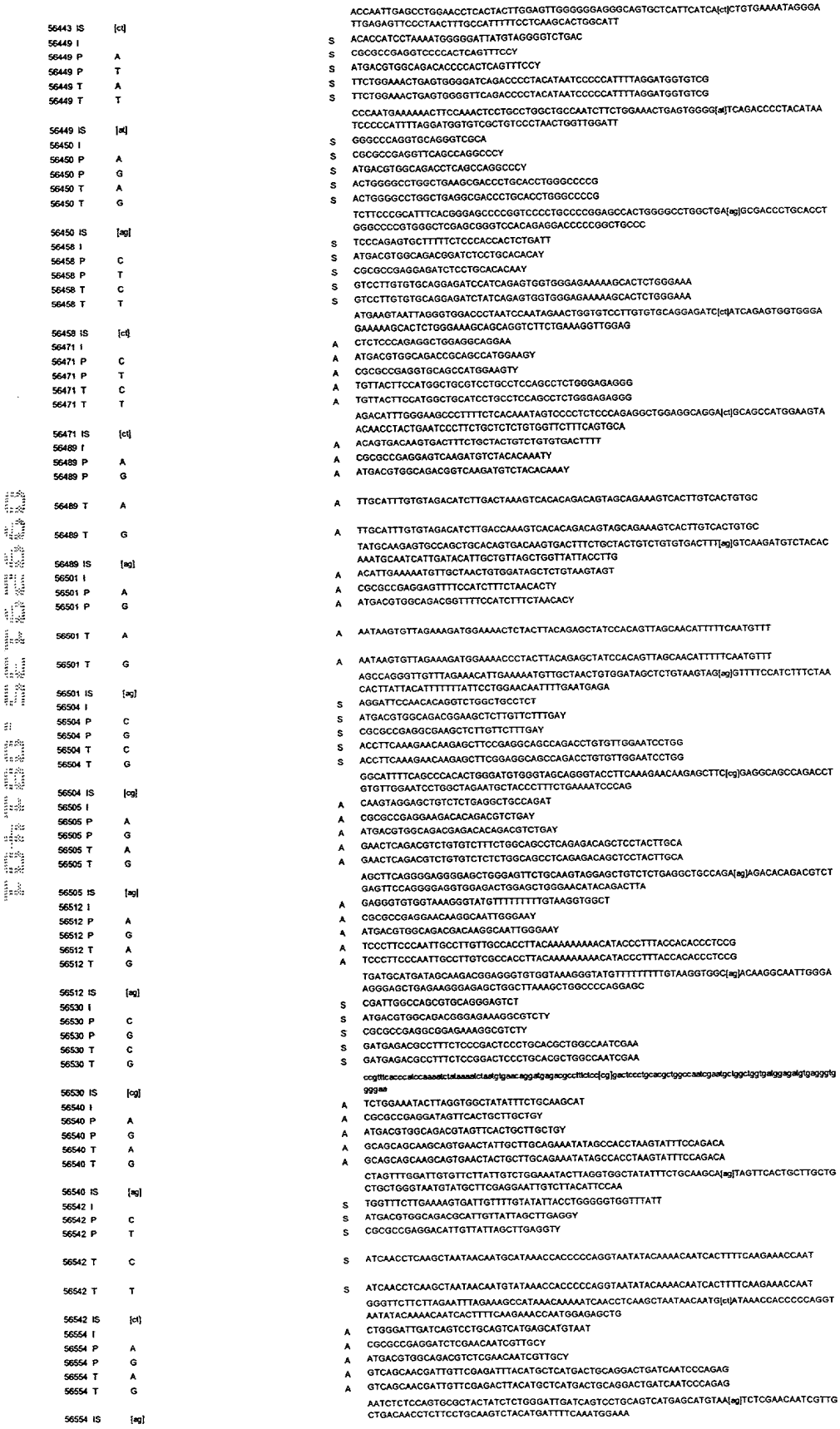


FIGURE 129D

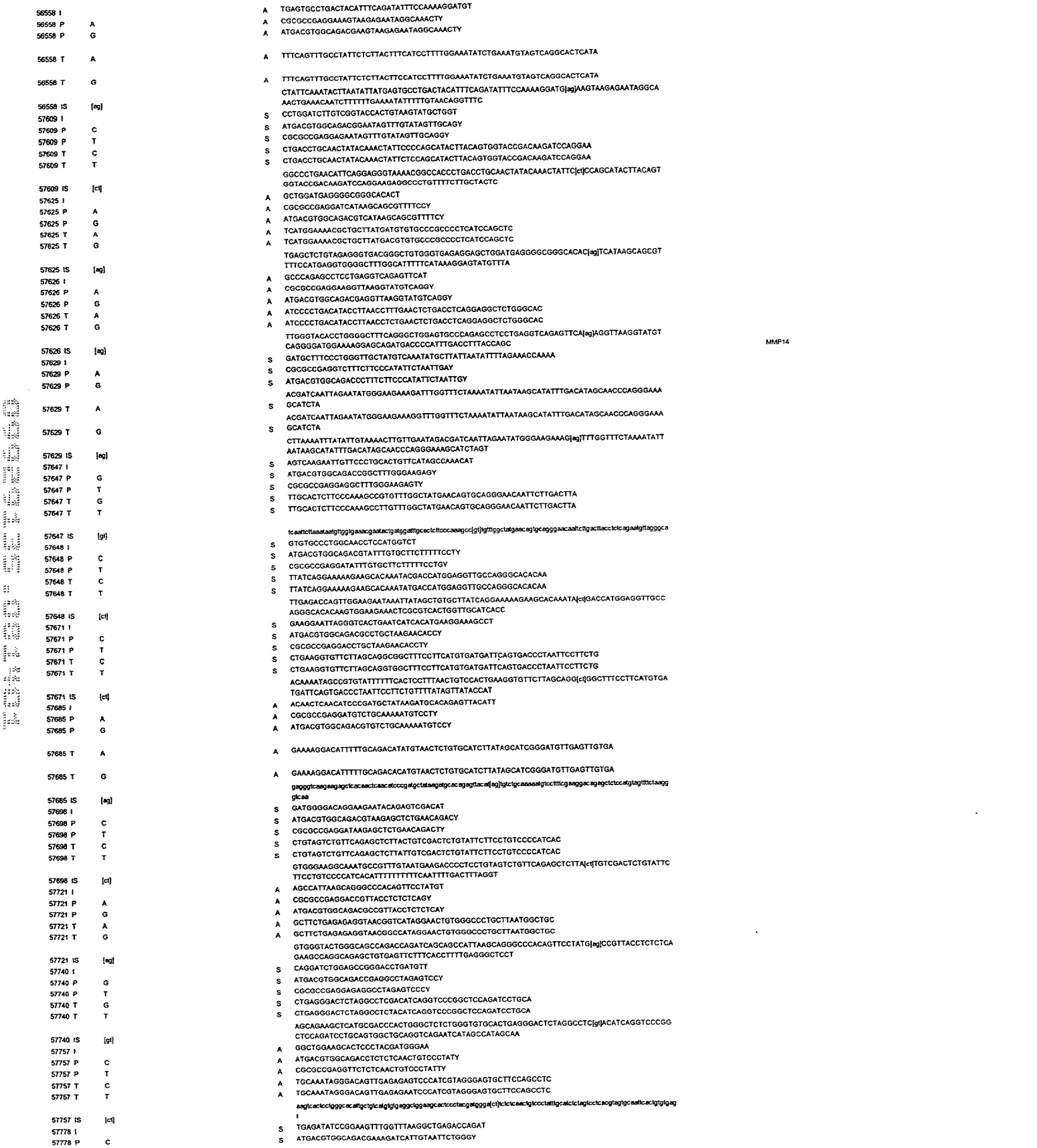

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FIGURE 129D

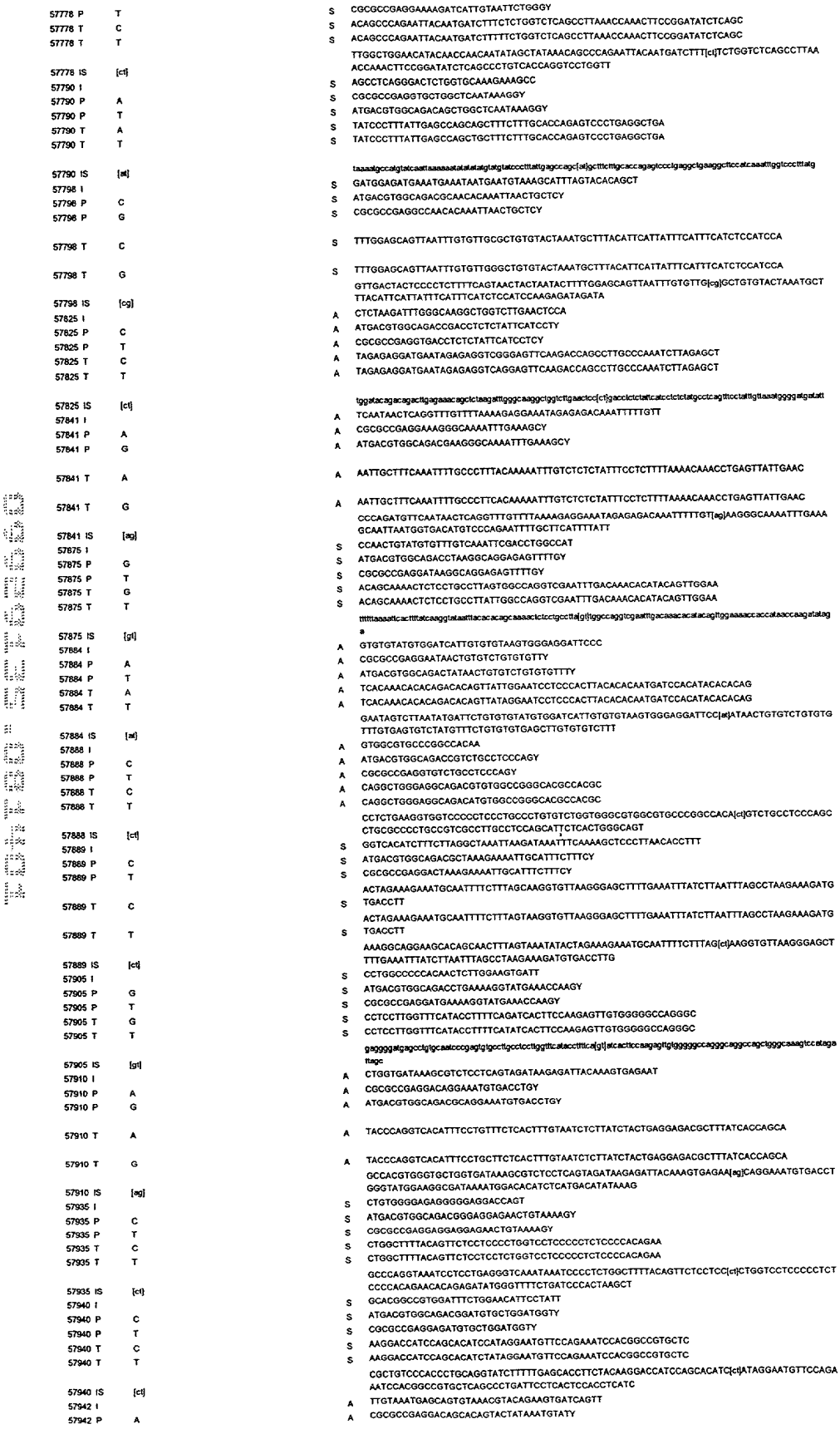
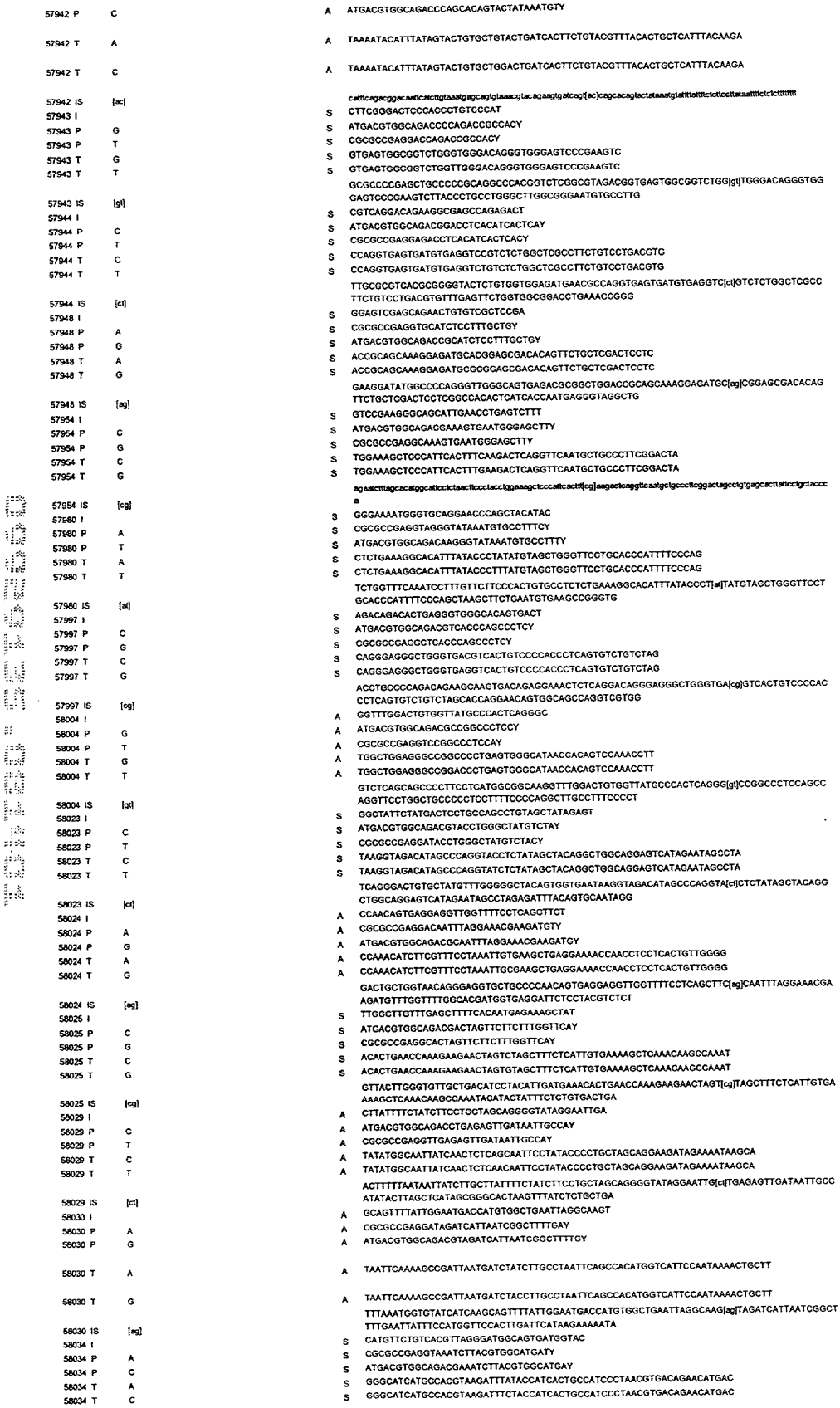


FIGURE 129D



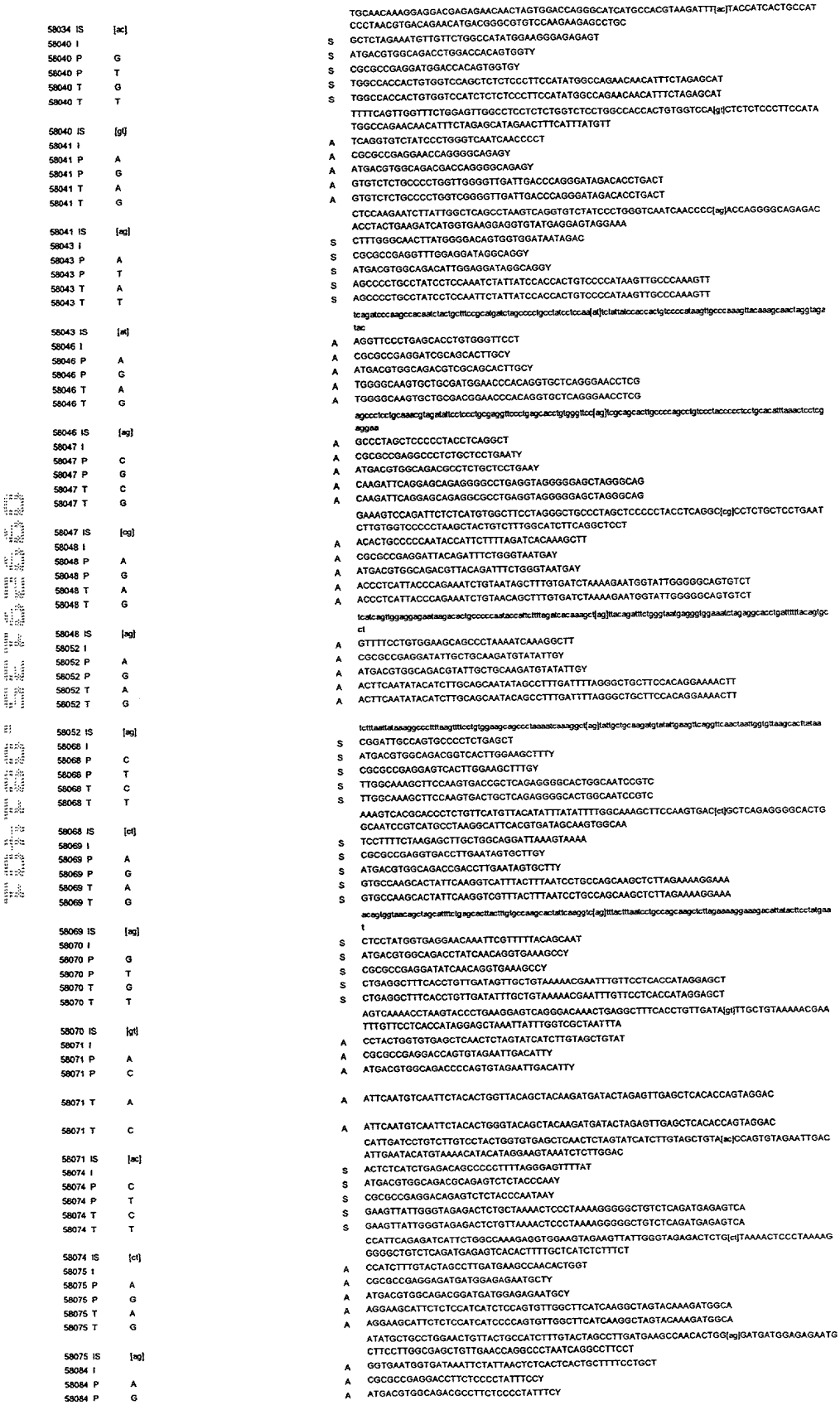

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FIGURE 129D

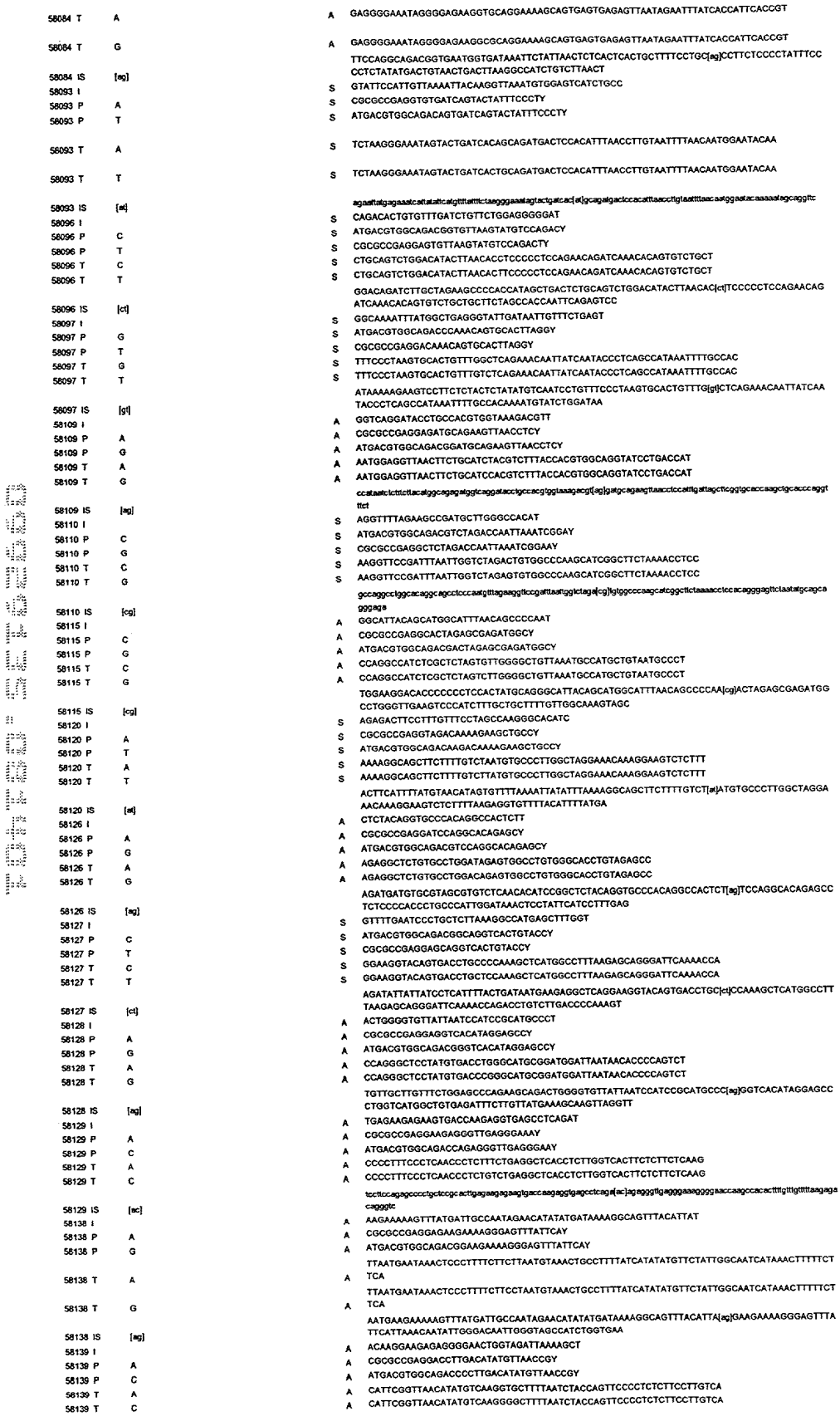

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58126 I
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58126 P A
A CGCGCCGAGGATCCAGGCACAGAGCY
58126 P G
A ATGACGTGGCAGACGTCCAGGCACAGAGCY
58126 T A
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58126 T G
A AGAGGCTCTGTGCCTGGACAGAGTGGCCTGTGGGCACCTGTAGAGCC
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58127 P C
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58127 T C
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58128 I
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58128 P A
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58128 P G
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58128 T A
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58128 T G
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58129 P C
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58138 P G
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58139 P C
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58139 T C
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FIGURE 129D

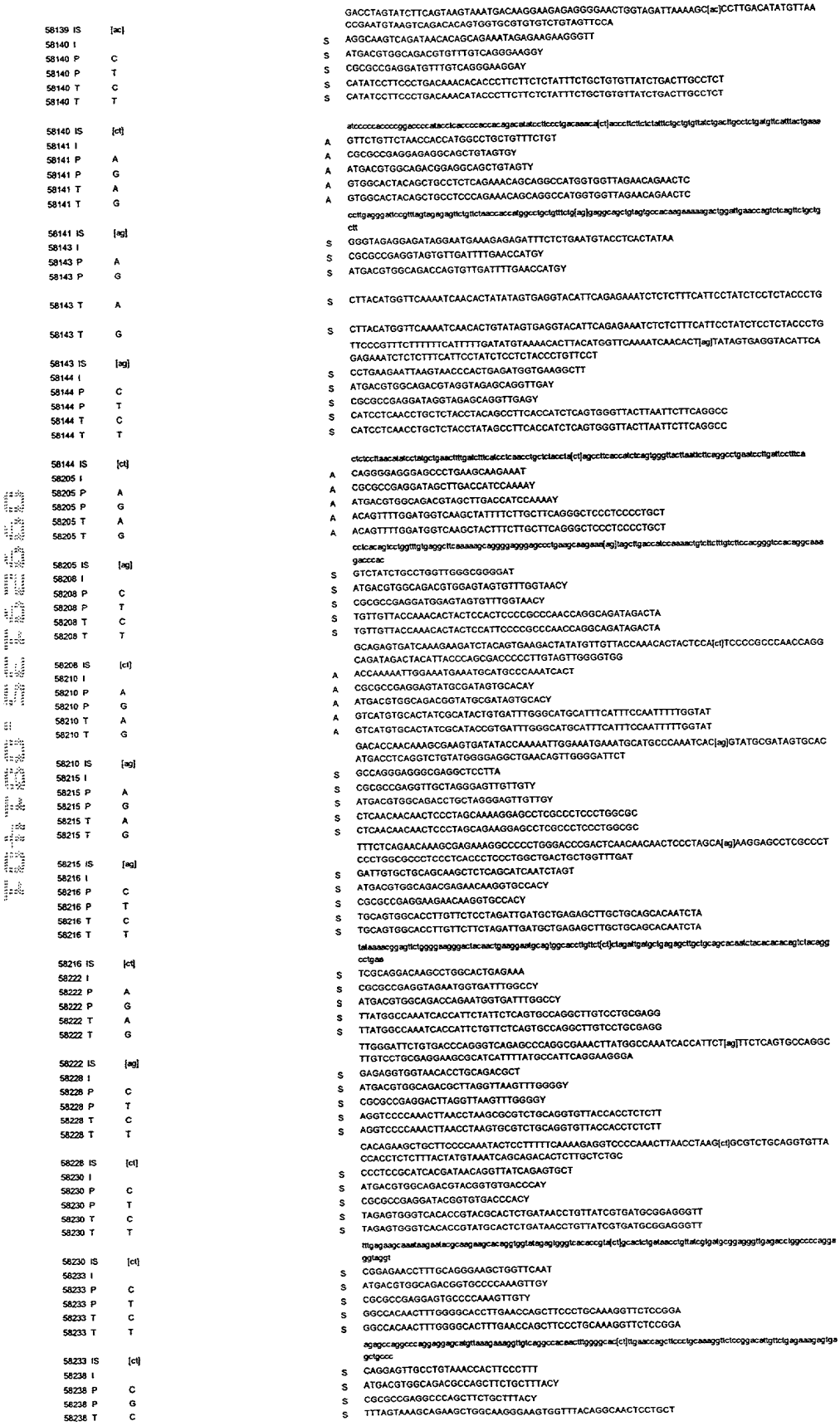

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58140 P T
58140 T C
58140 T T
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58141 P G
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58141 T G
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58144 T C
58144 T T
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58205 T A
58205 T G
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58208 P C
58208 P T
58208 T C
58208 T T
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58216 P T
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58222 T G
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58228 I
58228 P C
58228 P T
58228 T C
58228 T T
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FIGURE 129D

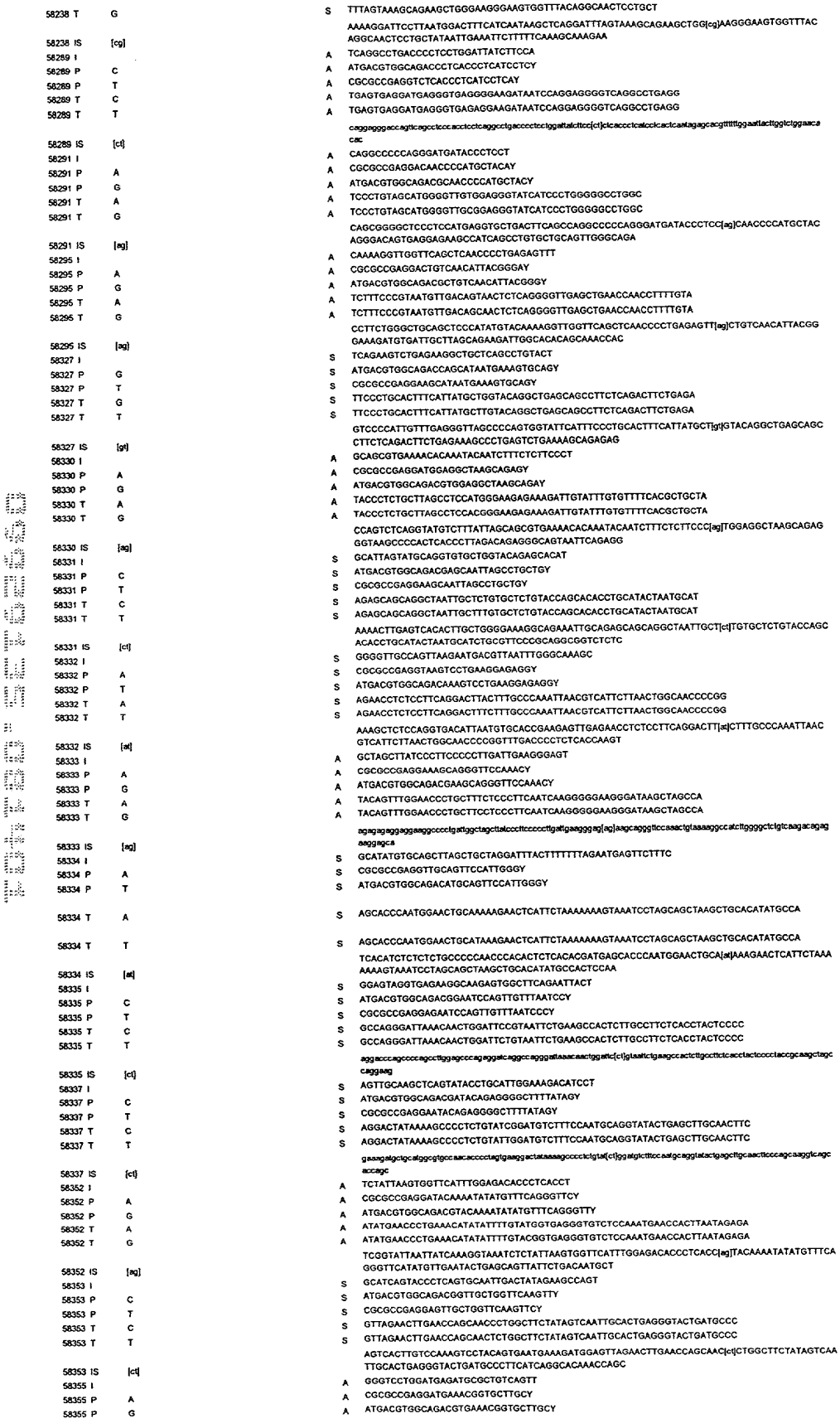

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58289 P T
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58289 T C
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58289 T T
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58327 T G
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58331 P T
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58335 T C
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58335 T T
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58353 T C
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FIGURE 129D

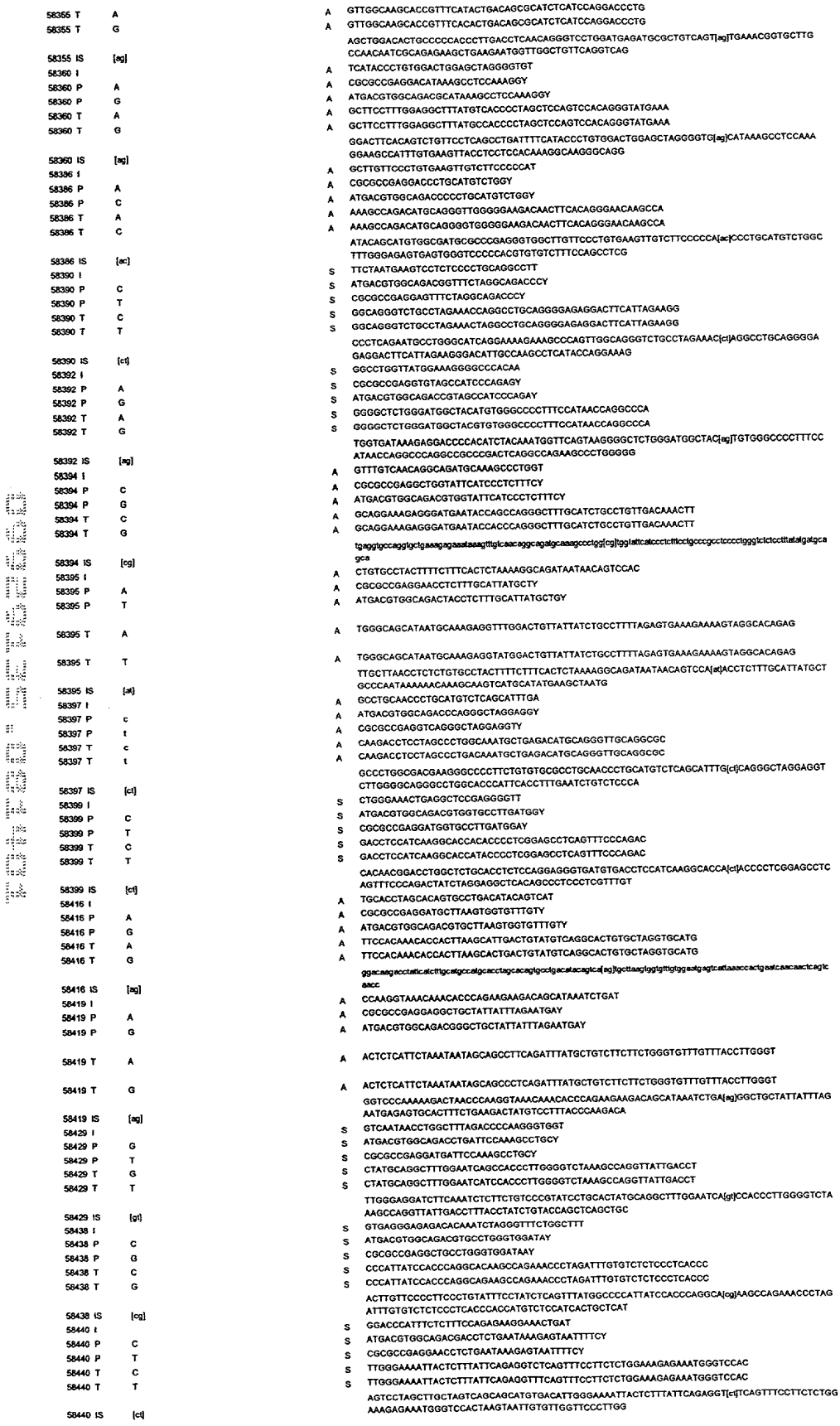

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58440 T C
58440 T T
58440 IS [ct]
A GTTGGCAAGCACCGTTTCATACTGACAGCGCATCTCATCCAGGACCCTG
A GTTGGCAAGCACCGTTTCACACTGACAGCGCATCTCATCCAGGACCCTG
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CCAACAATCGCAGAGAAGCTGAAGAATGGTTGGCTGTTCAGGTCAG
A TCATACCCTGTGGACTGGAGCTAGGGGTGT
A CGCGCCGAGGACATAAAGCCTCCAAAGGY
A ATGACGTGGCAGACGCATAAAGCCTCCAAAGGY
A GCTTCCTTTGGAGGCTTTATGTCACCCCTAGCTCCAGTCCACAGGGTATGAAA
A GCTTCCTTTGGAGGCTTTATGCCACCCCTAGCTCCAGTCCACAGGGTATGAAA
GGACTTCACAGTCTGTTCCTCAGCCTGATTTTCATACCCTGTGGACTGGAGCTAGGGGTG[ag]CATAAAGCCTCCAAA
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A GCTTGTTCCCTGTGAAGTTGTCTTCCCCCAT
A CGCGCCGAGGACCCTGCATGTCTGGY
A ATGACGTGGCAGACCCCCTGCATGTCTGGY
A AAAGCCAGACATGCAGGGTTGGGGGAAGACAACTTCACAGGGAACAAGCCA
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S TTCTAATGAAGTCCTCTCCCCTGCAGGCCTT
S ATGACGTGGCAGACGGTTTCTAGGCAGACCCY
S CGCGCCGAGGAGTTTCTAGGCAGACCCY
S GGCAGGGTCTGCCTAGAAACCAGGCCTGCAGGGGAGAGGACTTCATTAGAAGG
S GGCAGGGTCTGCCTAGAAACTAGGCCTGCAGGGGAGAGGACTTCATTAGAAGG
CCCTCAGAATGCCTGGGCATCAGGAAAAGAAAGCCCAGTTGGCAGGGTCTGCCTAGAAAC[ct]AGGCCTGCAGGGGA
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S GGCCTGGTTATGGAAAGGGGCCCACAA
S CGCGCCGAGGTGTAGCCATCCCAGAGY
S ATGACGTGGCAGACCGTAGCCATCCCAGAY
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S GGGGCTCTGGGATGGCTACGTGTGGGCCCCTTTCCATAACCAGGCCCA
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A CGCGCCGAGGCTGGTATTCATCCCTCTTTCY
A ATGACGTGGCAGACGTGGTATTCATCCCTCTTTCY
A GCAGGAAAGAGGGATGAATACCAGCCAGGGCTTTGCATCTGCCTGTTGACAAACTT
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gca
A CTGTGCCTACTTTTCTTTCACTCTAAAAGGCAGATAATAACAGTCCAC
A CGCGCCGAGGAACCTCTTTGCATTATGCTY
A ATGACGTGGCAGACTACCTCTTTGCATTATGCTGY
A TGGGCAGCATAATGCAAAGAGGTTTGGACTGTTATTATCTGCCTTTTAGAGTGAAAGAAAAGTAGGCACAGAG
A TGGGCAGCATAATGCAAAGAGGTATGGACTGTTATTATCTGCCTTTTAGAGTGAAAGAAAAGTAGGCACAGAG
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A GCCTGCAACCCTGCATGTCTCAGCATTTGA
A ATGACGTGGCAGACCCAGGGCTAGGAGGY
A CGCGCCGAGGTCAGGGCTAGGAGGTY
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A CAAGACCTCCTAGCCCTGACAAATGCTGAGACATGCAGGGTTGCAGGCGC
GCCCTGGCGACGAAGGGCCCCTTCTGTGTGCGCCTGCAACCCTGCATGTCTCAGCATTTG[ct]CAGGGCTAGGAGGT
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S CTGGGAAACTGAGGCTCCGAGGGGTT
S ATGACGTGGCAGACGTGGTGCCTTGATGGY
S CGCGCCGAGGATGGTGCCTTGATGGAY
S GACCTCCATCAAGGCACCACACCCCTCGGAGCCTCAGTTTCCCAGAC
S GACCTCCATCAAGGCACCATACCCCTCGGAGCCTCAGTTTCCCAGAC
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A TGCACCTAGCACAGTGCCTGACATACAGTCAT
A CGCGCCGAGGATGCTTAAGTGGTGTTTGTY
A ATGACGTGGCAGACGTGCTTAAGTGGTGTTTGTY
A TTCCACAAACACCACTTAAGCATTGACTGTATGTCAGGCACTGTGCTAGGTGCATG
A TTCCACAAACACCACTTAAGCACTGACTGTATGTCAGGCACTGTGCTAGGTGCATG
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aacc
A CCAAGGTAAACAAACACCCAGAAGAAGACAGCATAAATCTGAT
A CGCGCCGAGGAGGCTGCTATTATTTAGAATGAY
A ATGACGTGGCAGACGGGCTGCTATTATTTAGAATGAY
A ACTCTCATTCTAAATAATAGCAGCCTTCAGATTTATGCTGTCTTCTTCTGGGTGTTTGTTTACCTTGGGT
A ACTCTCATTCTAAATAATAGCAGCCCTCAGATTTATGCTGTCTTCTTCTGGGTGTTTGTTTACCTTGGGT
GGTCCCAAAAAGACTAACCCAAGGTAAACAAACACCCAGAAGAAGACAGCATAAATCTGA[ag]GGCTGCTATTATTTAG
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S GTCAATAACCTGGCTTTAGACCCCAAGGGTGGT
S ATGACGTGGCAGACCTGATTCCAAAGCCTGCY
S CGCGCCGAGGATGATTCCAAAGCCTGCY
S CTATGCAGGCTTTGGAATCAGCCACCCTTGGGGTCTAAAGCCAGGTTATTGACCT
S CTATGCAGGCTTTGGAATCATCCACCCTTGGGGTCTAAAGCCAGGTTATTGACCT
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S GTGAGGGAGAGACACAAATCTAGGGTTTCTGGCTTT
S ATGACGTGGCAGACGTGCCTGGGTGGATAY
S CGCGCCGAGGCTGCCTGGGTGGATAAY
S CCCATTATCCACCCAGGCACAAGCCAGAAACCCTAGATTTGTGTCTCTCCCTCACCC
S CCCATTATCCACCCAGGCAGAAGCCAGAAACCCTAGATTTGTGTCTCTCCCTCACCC
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ATTTGTGTCTCTCCCTCACCCACCATGTCTCCATCACTGCTCAT
S GGACCCATTTCTCTTTCCAGAGAAGGAAACTGAT
S ATGACGTGGCAGACGACCTCTGAATAAAGAGTAATTTTCY
S CGCGCCGAGGAACCTCTGAATAAAGAGTAATTTTCY
S TTGGGAAAATTACTCTTTATTCAGAGGTCTCAGTTTCCTTCTCTGGAAAGAGAAATGGGTCCAC
S TTGGGAAAATTACTCTTTATTCAGAGGTTTCAGTTTCCTTCTCTGGAAAGAGAAATGGGTCCAC
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FIGURE 129D

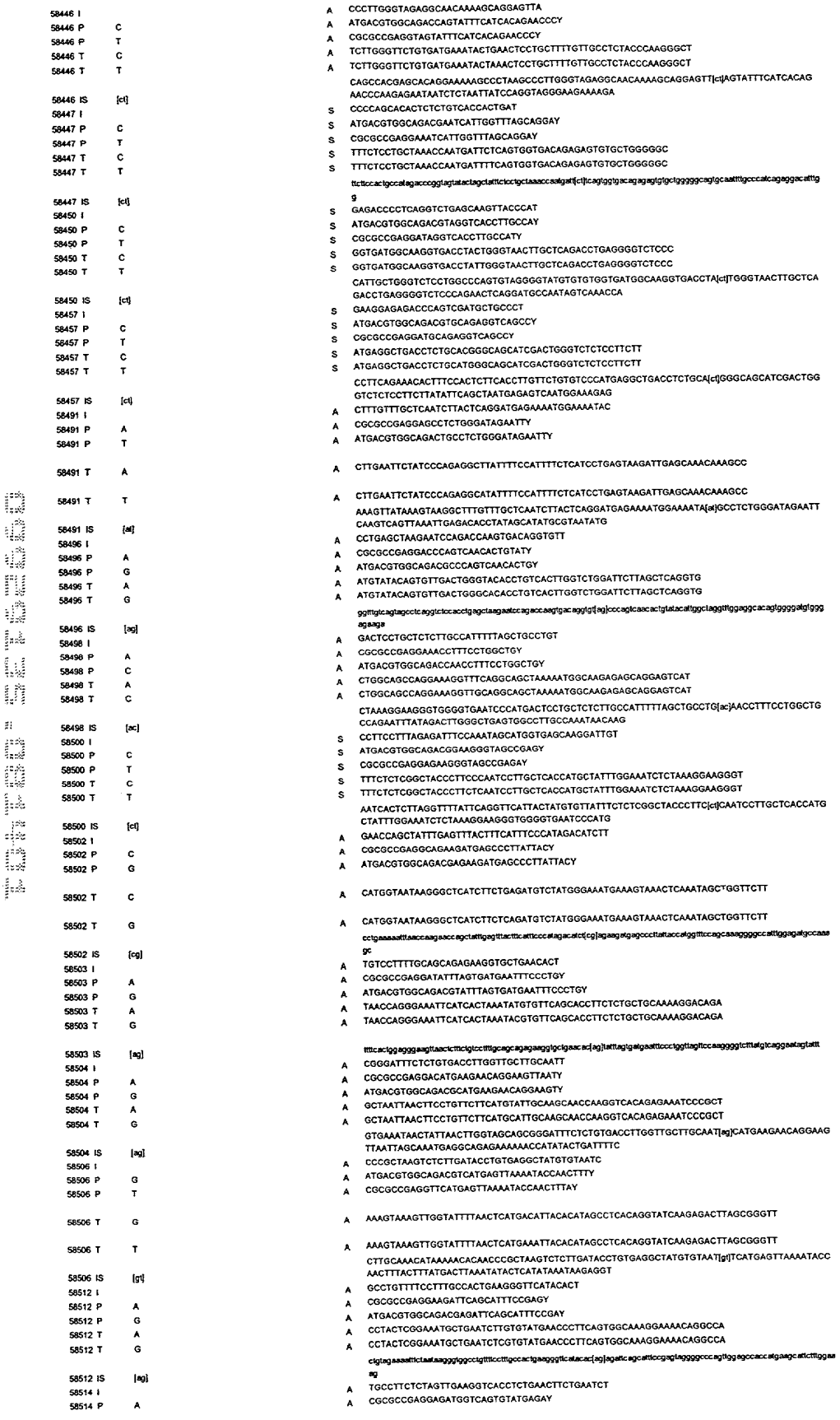


FIGURE 129D

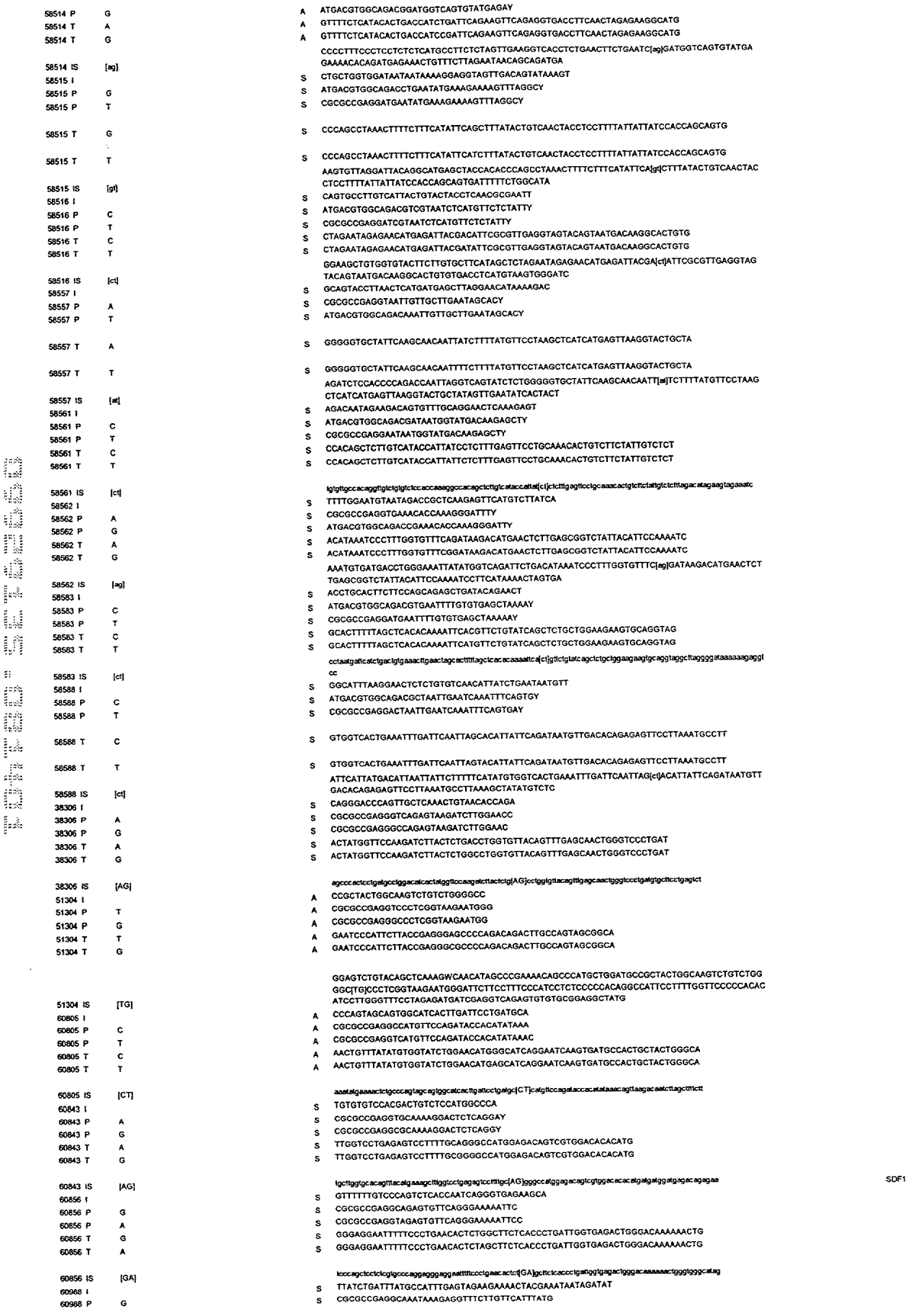


FIGURE 129D

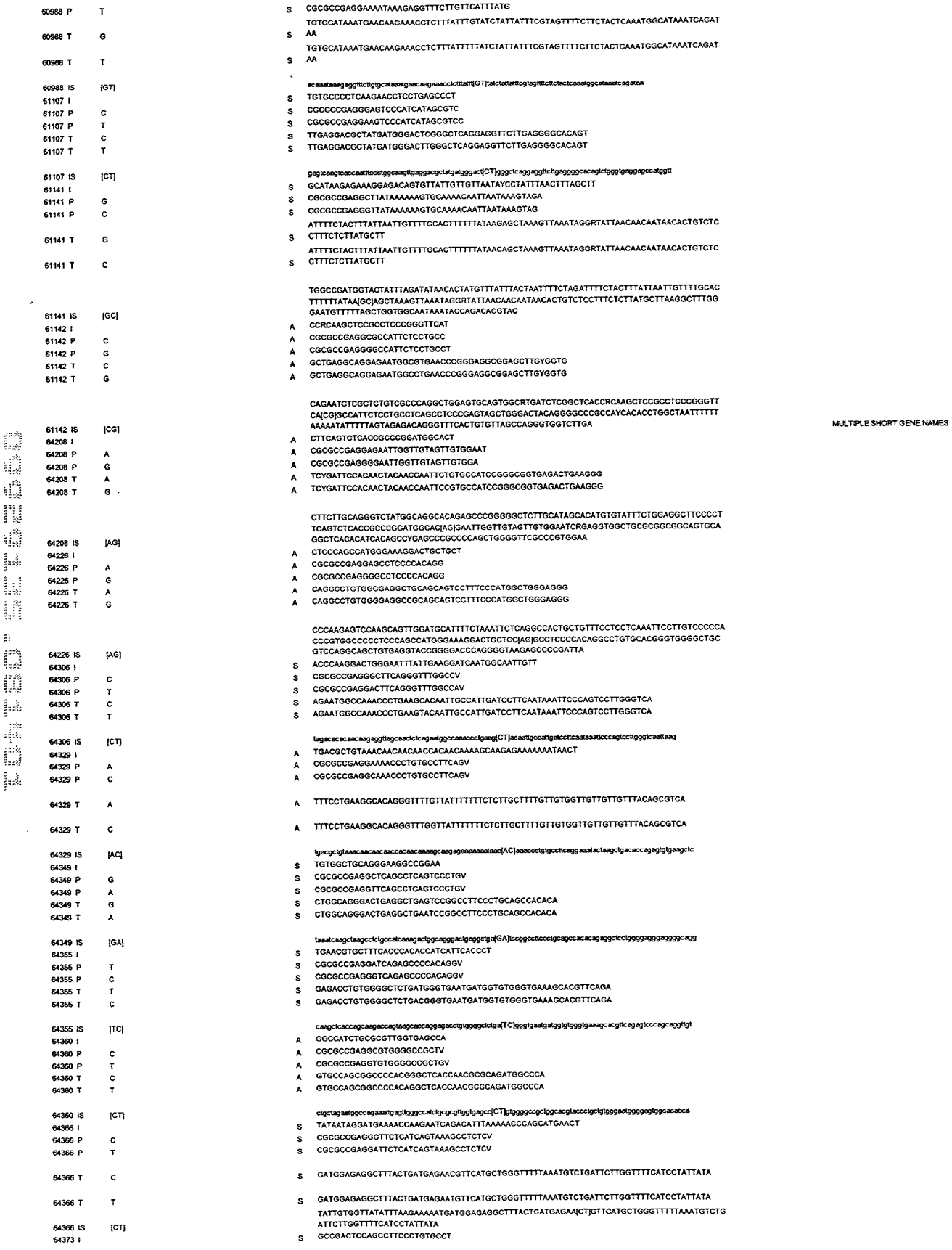


FIGURE 129D

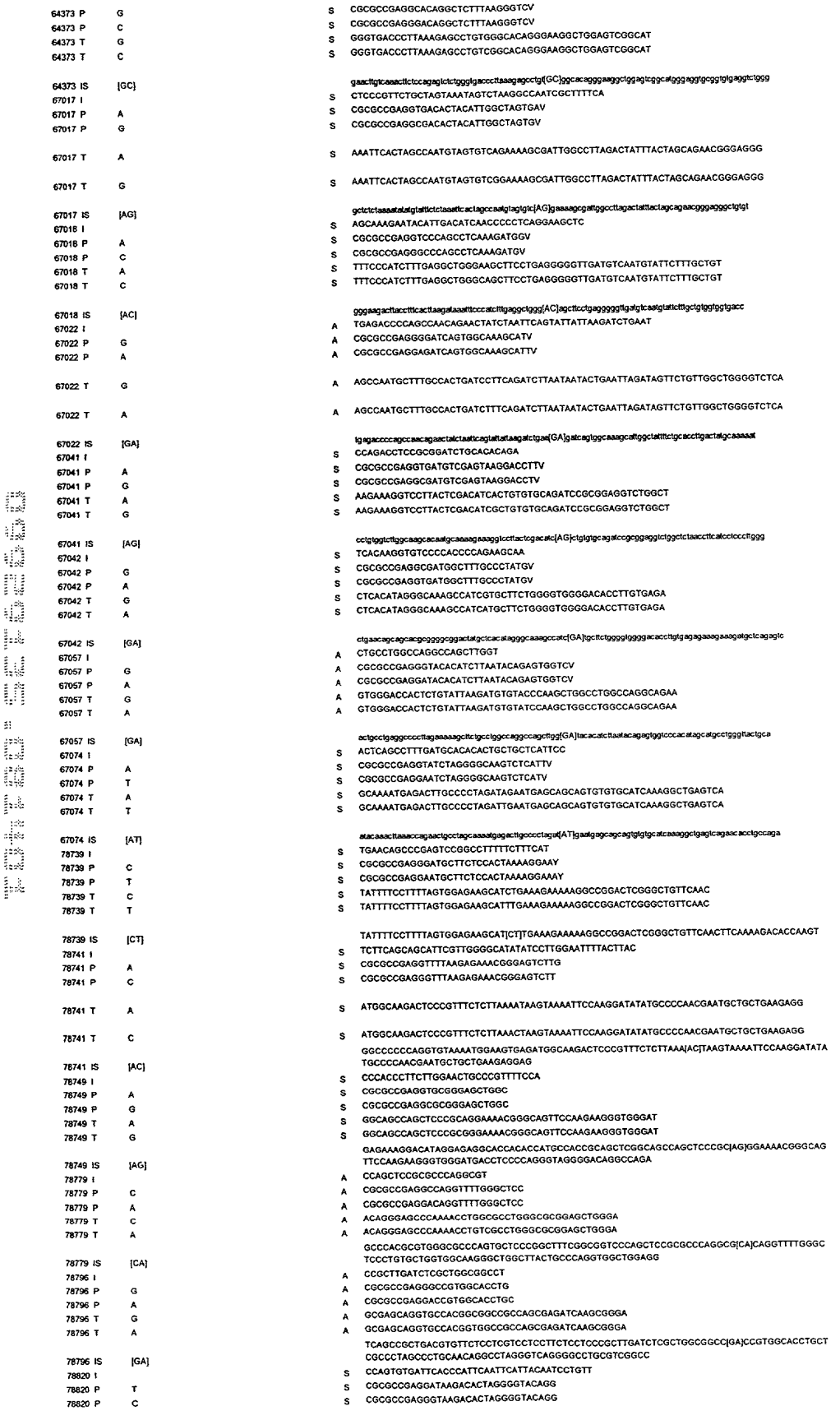

64373 P G
S CGCGCCGAGGCACAGGCTCTTTAAGGGTCV
64373 P C
S CGCGCCGAGGGACAGGCTCTTTAAGGGTCV
64373 T G
S GGGTGACCCTTAAAGAGCCTGTGGGCACAGGGAAGGCTGGAGTCGGCAT
64373 T C
S GGGTGACCCTTAAAGAGCCTGTCGGCACAGGGAAGGCTGGAGTCGGCAT
64373 IS [GC]
gaacttgtcaaacttctccagagtctctgggtgaccctaaagagcctgt[GC]ggcacagggaaggctggagtcggcatgggaggtgcggtgtgaggtctggg
67017 I
S CTCCCGTTCTGCTAGTAAATAGTCTAAGGCCAATCGCTTTTCA
67017 P A
S CGCGCCGAGGTGACACTACATTGGCTAGTGAV
67017 P G
S CGCGCCGAGGCGACACTACATTGGCTAGTGV
67017 T A
S AAATTCACTAGCCAATGTAGTGTCAGAAAAGCGATTGGCCTTAGACTATTTACTAGCAGAACGGGAGGG
67017 T G
S AAATTCACTAGCCAATGTAGTGTCGGAAAAGCGATTGGCCTTAGACTATTTACTAGCAGAACGGGAGGG
67017 IS [AG]
gctctctaaaatatatgtattctctaaattcactagccaatgtagtgtc[AG]gaaaagcgattggccttagactatttactagcagaacgggagggctgtgt
67018 I
S AGCAAAGAATACATTGACATCAACCCCCTCAGGAAGCTC
67018 P A
S CGCGCCGAGGTCCCAGCCTCAAAGATGGV
67018 P C
S CGCGCCGAGGGCCCAGCCTCAAAGATGV
67018 T A
S TTTCCCATCTTTGAGGCTGGGAAGCTTCCTGAGGGGGTTGATGTCAATGTATTCTTTGCTGT
67018 T C
S TTTCCCATCTTTGAGGCTGGGCAGCTTCCTGAGGGGGTTGATGTCAATGTATTCTTTGCTGT
67018 IS [AC]
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67022 I
A TGAGACCCCAGCCAACAGAACTATCTAATTCAGTATTATTAAGATCTGAAT
67022 P G
A CGCGCCGAGGGGATCAGTGGCAAAGCATV
67022 P A
A CGCGCCGAGGAGATCAGTGGCAAAGCATTV
67022 T G
A AGCCAATGCTTTGCCACTGATCCTTCAGATCTTAATAATACTGAATTAGATAGTTCTGTTGGCTGGGGTCTCA
67022 T A
A AGCCAATGCTTTGCCACTGATCTTTCAGATCTTAATAATACTGAATTAGATAGTTCTGTTGGCTGGGGTCTCA
67022 IS [GA]
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67041 I
S CCAGACCTCCGCGGATCTGCACACAGA
67041 P A
S CGCGCCGAGGTGATGTCGAGTAAGGACCTTV
67041 P G
S CGCGCCGAGGCGATGTCGAGTAAGGACCTV
67041 T A
S AAGAAAGGTCCTTACTCGACATCACTGTGTGCAGATCCGCGGAGGTCTGGCT
67041 T G
S AAGAAAGGTCCTTACTCGACATCGCTGTGTGCAGATCCGCGGAGGTCTGGCT
67041 IS [AG]
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67042 I
S TCACAAGGTGTCCCCACCCCAGAAGCAA
67042 P G
S CGCGCCGAGGCGATGGCTTTGCCCTATGV
67042 P A
S CGCGCCGAGGTGATGGCTTTGCCCTATGV
67042 T G
S CTCACATAGGGCAAAGCCATCGTGCTTCTGGGGTGGGGACACCTTGTGAGA
67042 T A
S CTCACATAGGGCAAAGCCATCATGCTTCTGGGGTGGGGACACCTTGTGAGA
67042 IS [GA]
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67057 I
A CTGCCTGGCCAGGCCAGCTTGGT
67057 P G
A CGCGCCGAGGGTACACATCTTAATACAGAGTGGTCV
67057 P A
A CGCGCCGAGGATACACATCTTAATACAGAGTGGTCV
67057 T G
A GTGGGACCACTCTGTATTAAGATGTGTACCCAAGCTGGCCTGGCCAGGCAGAA
67057 T A
A GTGGGACCACTCTGTATTAAGATGTGTATCCAAGCTGGCCTGGCCAGGCAGAA
67057 IS [GA]
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67074 I
S ACTCAGCCTTTGATGCACACACTGCTGCTCATTCC
67074 P A
S CGCGCCGAGGTATCTAGGGGCAAGTCTCATTV
67074 P T
S CGCGCCGAGGAATCTAGGGGCAAGTCTCATV
67074 T A
S GCAAAATGAGACTTGCCCCTAGATAGAATGAGCAGCAGTGTGTGCATCAAAGGCTGAGTCA
67074 T T
S GCAAAATGAGACTTGCCCCTAGATTGAATGAGCAGCAGTGTGTGCATCAAAGGCTGAGTCA
67074 IS [AT]
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78739 I
S TGAACAGCCCGAGTCCGGCCTTTTTCTTTCAT
78739 P C
S CGCGCCGAGGGATGCTTCTCCACTAAAAGGAAY
78739 P T
S CGCGCCGAGGAATGCTTCTCCACTAAAAGGAAAY
78739 T C
S TATTTTCCTTTTAGTGGAGAAGCATCTGAAAGAAAAAGGCCGGACTCGGGCTGTTCAAC
78739 T T
S TATTTTCCTTTTAGTGGAGAAGCATTTGAAAGAAAAAGGCCGGACTCGGGCTGTTCAAC
78739 IS [CT]
TATTTTCCTTTTAGTGGAGAAGCAT[CT]TGAAAGAAAAAGGCCGGACTCGGGCTGTTCAACTTCAAAAGACACCAAGT
78741 I
S TCTTCAGCAGCATTCGTTGGGGCATATATCCTTGGAATTTTACTTAC
78741 P A
S CGCGCCGAGGGTTTAAGAGAAACGGGAGTCTTG
78741 P C
S CGCGCCGAGGGTTTAAGAGAAACGGGAGTCTT
78741 T A
S ATGGCAAGACTCCCGTTTCTCTTAAAATAAGTAAAATTCCAAGGATATATGCCCCAACGAATGCTGCTGAAGAGG
78741 T C
S ATGGCAAGACTCCCGTTTCTCTTAAACTAAGTAAAATTCCAAGGATATATGCCCCAACGAATGCTGCTGAAGAGG
78741 IS [AC]
GGCCCCCCAGGTGTAAAATGGAAGTGAGATGGCAAGACTCCCGTTTCTCTTAAA[AC]TAAGTAAAATTCCAAGGATATA
TGCCCCAACGAATGCTGCTGAAGAGGAG
78749 I
S CCCACCCTTCTTGGAACTGCCCGTTTTCCA
78749 P A
S CGCGCCGAGGTGCGGGAGCTGGC
78749 P G
S CGCGCCGAGGCGCGGGAGCTGGC
78749 T A
S GGCAGCCAGCTCCCGCAGGAAAACGGGCAGTTCCAAGAAGGGTGGGAT
78749 T G
S GGCAGCCAGCTCCCGCGGGAAAACGGGCAGTTCCAAGAAGGGTGGGAT
78749 IS [AG]
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78779 I
A CCAGCTCCGCGCCCAGGCGT
78779 P C
A CGCGCCGAGGCCAGGTTTTGGGCTCC
78779 P A
A CGCGCCGAGGACAGGTTTTGGGCTCC
78779 T C
A ACAGGGAGCCCAAAACCTGGCGCCTGGGCGCGGAGCTGGGA
78779 T A
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78779 IS [CA]
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78796 I
A CCGCTTGATCTCGCTGGCGGCCT
78796 P G
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78796 P A
A CGCGCCGAGGACCGTGGCACCTGC
78796 T G
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78796 T A
A GCGAGCAGGTGCCACGGTGGCCGCCAGCGAGATCAAGCGGGA
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78820 I
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78820 P T
S CGCGCCGAGGATAAGACACTAGGGGTACAGG
78820 P C
S CGCGCCGAGGGTAAGACACTAGGGGTACAGG

FIGURE 129D

```
78820 T   T     S  TTATCCTGTACCCCTAGTGTCTTATACAGGATTGTAATGAATTGAATGGGTGAATCACACTGGAT
78820 T   C     S  TTATCCTGTACCCCTAGTGTCTTACACAGGATTGTAATGAATTGAATGGGTGAATCACACTGGAT

78820 IS  [TC]    cctagaagtaatgagtagggtcttttttatcctgtaccccctagtgtctta[TC]acaggatgtaatgaattgaatgggtgaatcacactggatatataaaaat
78839 I           S  CAGAGGTTCTGCCTTGATCAAAGTCTTTAATAACCACAAT
78839 P   G       S  CGCGCCGAGGCTAAGTGAAAATGCATTTTTAACACAAA
78839 P   C       S  CGCGCCGAGGGTAAGTGAAAATGCATTTTTAACACAAA

78839 T   G     S  AGAGTTTGTGTTAAAAATGCATTTTCACTTAGTTGTGGTTATTAAAGACTTTGATCAAGGCAGAACCTCTGGA

78839 T   C     S  AGAGTTTGTGTTAAAAATGCATTTTCACTTACTTGTGGTTATTAAAGACTTTGATCAAGGCAGAACCTCTGGA

78839 IS  [GC]    ccttcatggaatacagtacagagtttgtgttaaaaatgcatttcactta[GC]ttgtggttattaaagactttgatcaaggcagaacctctggaaatacaacg
78845 I           S  CTGCGCTCGCATCAGAAAACTTACATTCTGGTCAGTTATCTA
78845 P   A       S  CGCGCCGAGGTTCTTATTGTAAATGAGTAATAATGGTCTTC
78845 P   G       S  CGCGCCGAGGCTCTTATTGTAAATGAGTAATAATGGTCTTC

78845 T   A     S  ATCAGAAGACCATTATTACTCATTTACAATAAGAAAGATAACTGACCAGAATGTAAGTTTTCTGATGCGAGCGCAGAG

78845 T   G     S  ATCAGAAGACCATTATTACTCATTTACAATAAGAGAGATAACTGACCAGAATGTAAGTTTTCTGATGCGAGCGCAGAG

78845 IS  [AG]    cacaataaatcttataatcagaagaccattatttactcatttacaataaga[AG]agataactgaccagaaatgtaagttttctgatgcgagcgcagagcattgtg
78846 I           A  GCCCCCACCCGCCGGAGCA
78846 P   C       A  CGCGCCGAGGCTACATCCAGAATGAACACAGC
78846 P   T       A  CGCGCCGAGGTTACATCCAGAATGAACACAGC
78846 T   C       A  GGTAGCTGTGTTCATTCTGGATGTAGGCTCCGGCGGGTGGGGGCAG
78846 T   T       A  GGTAGCTGTGTTCATTCTGGATGTAAGCTCCGGCGGGTGGGGGCAG

78846 IS  [CT]    ccagtctcccctcagcgtatatgctgcgcctgcccccaccgccggagc[CT]tacatccagaatgaacacagctaccaggtgggcagcgccttactctggaa   MGC10963
78848 I           A  TGCATTTTGAGATTTGCTTCGTTAGGGGCTCACAAAATGCA
78848 P   C       A  CGCGCCGAGGCGAGTGGTCACCAGCT
78848 P   T       A  CGCGCCGAGGTGAGTGGTCACCAGCT
78848 T   C       A  AACCAGCTGGTGACCACTCGGCATTTTGTGAGCCCCTAACGAAGCAAATCTCAAAATGCAGC
78848 T   T       A  AACCAGCTGGTGACCACTCAGCATTTTGTGAGCCCCTAACGAAGCAAATCTCAAAATGCAGC

78848 IS  [CT]    gacaggctgctgcatttgagatttgcttcgttaggggctcacaaaatgc[CT]gagtggtcaccagctggtttcagagtagcaggagcactgaccttgaagag
78872 I           A  GGAGAGATGAACTCACATTGGCATTTGATCAGTGACTCTCCT
78872 P   A       A  CGCGCCGAGGAGCTGTAATGAGAATAGAATGGAG
78872 P   C       A  CGCGCCGAGGCGCTGTAATGAGAATAGAATGGA

78872 T   A     A  GCCTCTCCATTCTATTCTCATTACAGCTGGAGAGTCACTGATCAAATGCCAATGTGAGTTCATCTCTCCCA

78872 T   C     A  GCCTCTCCATTCTATTCTCATTACAGCGGGAGAGTCACTGATCAAATGCCAATGTGAGTTCATCTCTCCCA

78872 IS  [AC]    tgtgaggtgggagagatgaactcacattggcatttgatcagtgactctcc[AC]gctgtaatgagaatagaatggagaggcctgggacaggaagacaggatgtg
78892 I           A  GCCTGGCTGAGGTTCGGCTGGTCCT
78892 P   A       A  CGCGCCGAGGACGAGCATCAGTTTCCC
78892 P   G       A  CGCGCCGAGGGCGAGCATCAGTTTCCC
78892 T   A       A  GGTGGGGAAACTGATGCTCGTGGACCAGCCGAACCTCAGCCAGGCCA
78892 T   G       A  GGTGGGGAAACTGATGCTCGCGGACCAGCCGAACCTCAGCCAGGCCA

78892 IS  [AG]    gtggtgctgtctctgtccaggggtggcctggctgaggttcggctggtcc[AG]cgagcatcagtttccccacctccatggtggtggaatgtggagagccatag
78896 I           A  GGACAGTGAATGAGTCTTTGTATTCCAGGTTCATTCACTGCCT
78896 P   INS     A  CGCGCCGAGGCCAGCAGTGTAGTCTTACAC
78896 P   DEL     A  CGCGCCGAGGCAGCAGTGTAGTCTTACACAAC

78896 T   INS   A  AGTTGTGTAAGACTACACTGCTGGGGCAGTGAATGAACCTGGAATACAAAGACTCATTCACTGTCCAG

78896 T   DEL   A  TTCAGTTGTGTAAGACTACACTGCTGGGCAGTGAATGAACCTGGAATACAAAGACTCATTCACTGTCCAG

78896 IS  [-C]    TACTGCTGGACAGTGAATGAGTCTTTGTATTCCAGGTTCATTCACTGCCC[-
                  C]AGCAGTGTAGTCTTACACAACTGAACTCTCTAAGCCTTGGTTTGCTCATC
78953 I           A  GCATCAACTTGATTAAGGAACCCTCCTACTGAATTCCCATTTAAAGCAATACC
78953 P   T       A  CGCGCCGAGGTTGGACTAAGGACACCGT
78953 P   G       A  CGCGCCGAGGGTGGACTAAGGACACCGT

78953 T   T     A  AAAAACGGTGTCCTTAGTCCAAGTATTGCTTTAAATGGGAATTCAGTAGGAGGGTTCCTTAATCAAGTTGATGCTT

78953 T   G     A  AAAAACGGTGTCCTTAGTCCACGTATTGCTTTAAATGGGAATTCAGTAGGAGGGTTCCTTAATCAAGTTGATGCTT

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                  AACTTGATTAAGGAACCCTCCTACTGAATTCCCATTTAAAGCAATAC[TG]TGGACTAAGGACACCGTTTTTGGCTGCAG
78953 IS  [TG]    TCTTGATCGTCTGTCAATCAGAAACCTAAAAGTACTTAAGCTGGCAAGTCAC
78955 I           S  CTCATAAAGTTGTATTTCACATTGCTCAGGAAGCTAAAAGGTGT
78955 P   G       S  CGCGCCGAGGCTGACCTAGGCTTGATGATTTC
78955 P   T       S  CGCGCCGAGGATGACCTAGGCTTGATGATTTC

78955 T   G     S  TTTAGAAATCATCAAGCCTAGGTCAGCACCTTTTAGCTTCCTGAGCAATGTGAAATACAACTTTATGAGGA

78955 T   T     S  TTTAGAAATCATCAAGCCTAGGTCATCACCTTTTAGCTTCCTGAGCAATGTGAAATACAACTTTATGAGGA

                  ACTATTTTCCCTGTTTGTACTAGACTGTGTATATCATCTGTGTTTGTACATAGACATTAATCTGCACTTGTGATCATGGT
                  TTTAGAAATCATCAAGCCTAGGTCA[GT]CACCTTTTAGCTTCCTGAGCAATGTGAAATACAACTTTATGAGGATCATCAA
78955 IS  [GT]    ATACGAATTCATCCTGAATGACGCCCTCAATCAAAGTATAATTCGAGCCAAT
78962 I           A  CAGGTGTCTGCCTCCTGACCCTTCCATCCA
78962 P   T       A  CGCGCCGAGGTTCAGGTGTCCTGTTGC
78962 P   C       A  CGCGCCGAGGCTCAGGTGTCCTGTTGC
78962 T   T       A  GGGGGCAACAGGACACCTGAAGGATGGAAGGGTCAGGAGGCAGACACCTGTA
78962 T   C       A  GGGGGCAACAGGACACCTGAGGGATGGAAGGGTCAGGAGGCAGACACCTGTA

                  AAATGTATGGGGTCGCAGGGTGTTGAGTGACAGGAGGCTGCTTAGCCACATGGGAGGTGCTCAGTAAAGGAGAGCA
                  ATTCTTACAGGTGTCTGCCTCCTGACCCTTCCATCC[TC]TCAGGTGTCCTGTTGCCCCCTCCTCCCACTGACACCCTC
78962 IS  [TC]    CGGAGGCCCCCATGTTGACAGACCCTCCTTCTGTCCTCTTTCTCTGGTGACCC
78963 I           A  CATGCCTCTAGAGGCAAGGAGGGGAGGAACT
78963 P   A       A  CGCGCCGAGGACTGCACTCTTAAGCTTCC
78963 P   G       A  CGCGCCGAGGGCTGCACTCTTAAGCTTCC
78963 T   A       A  CGGCGGAAGCTTAAGAGTGCAGTGTTCCTCCCCTCCTTGCCTCTAGAGGCATGCT
78963 T   G       A  CGGCGGAAGCTTAAGAGTGCAGCGTTCCTCCCCTCCTTGCCTCTAGAGGCATGCT
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FIGURE 129D

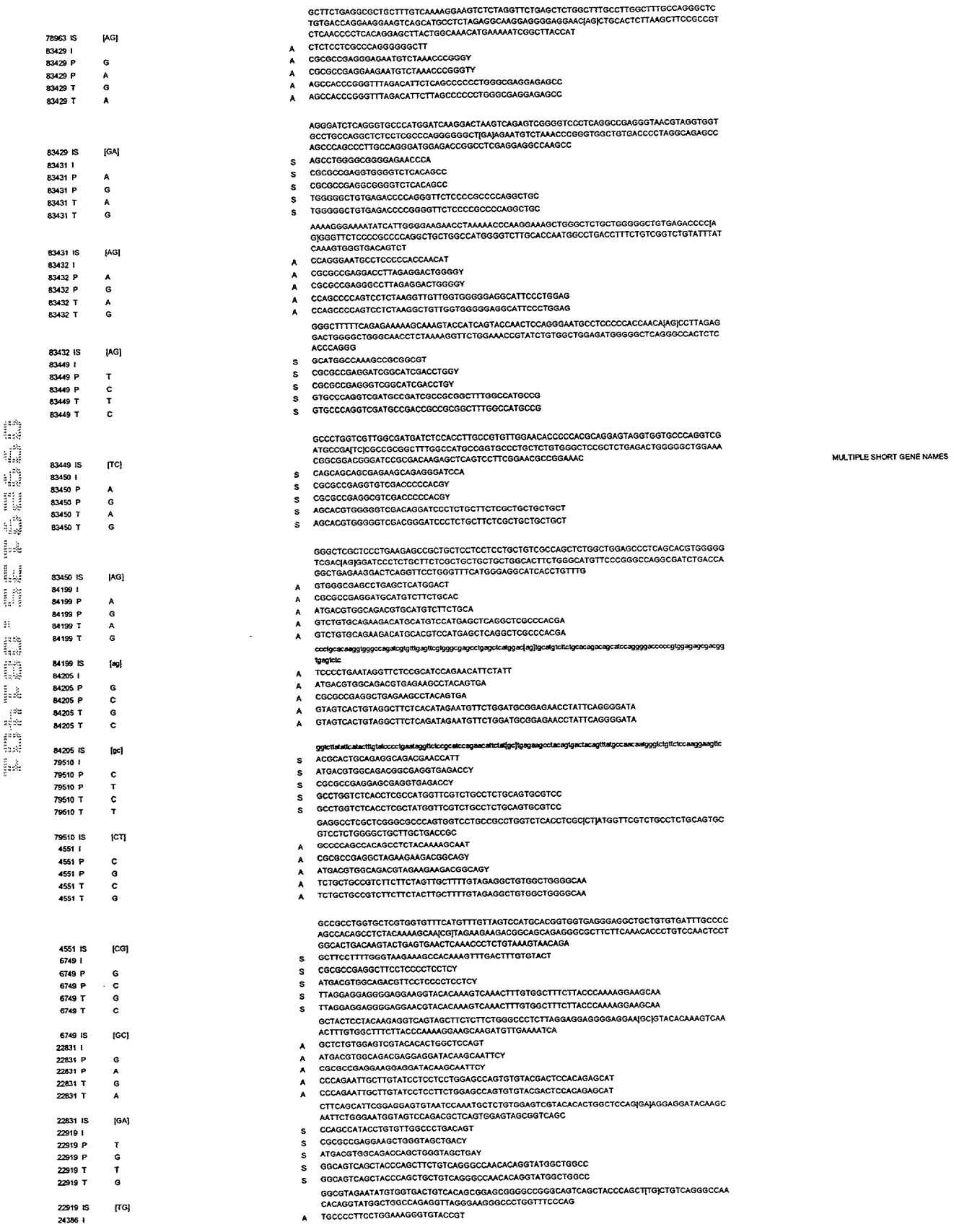


FIGURE 129D

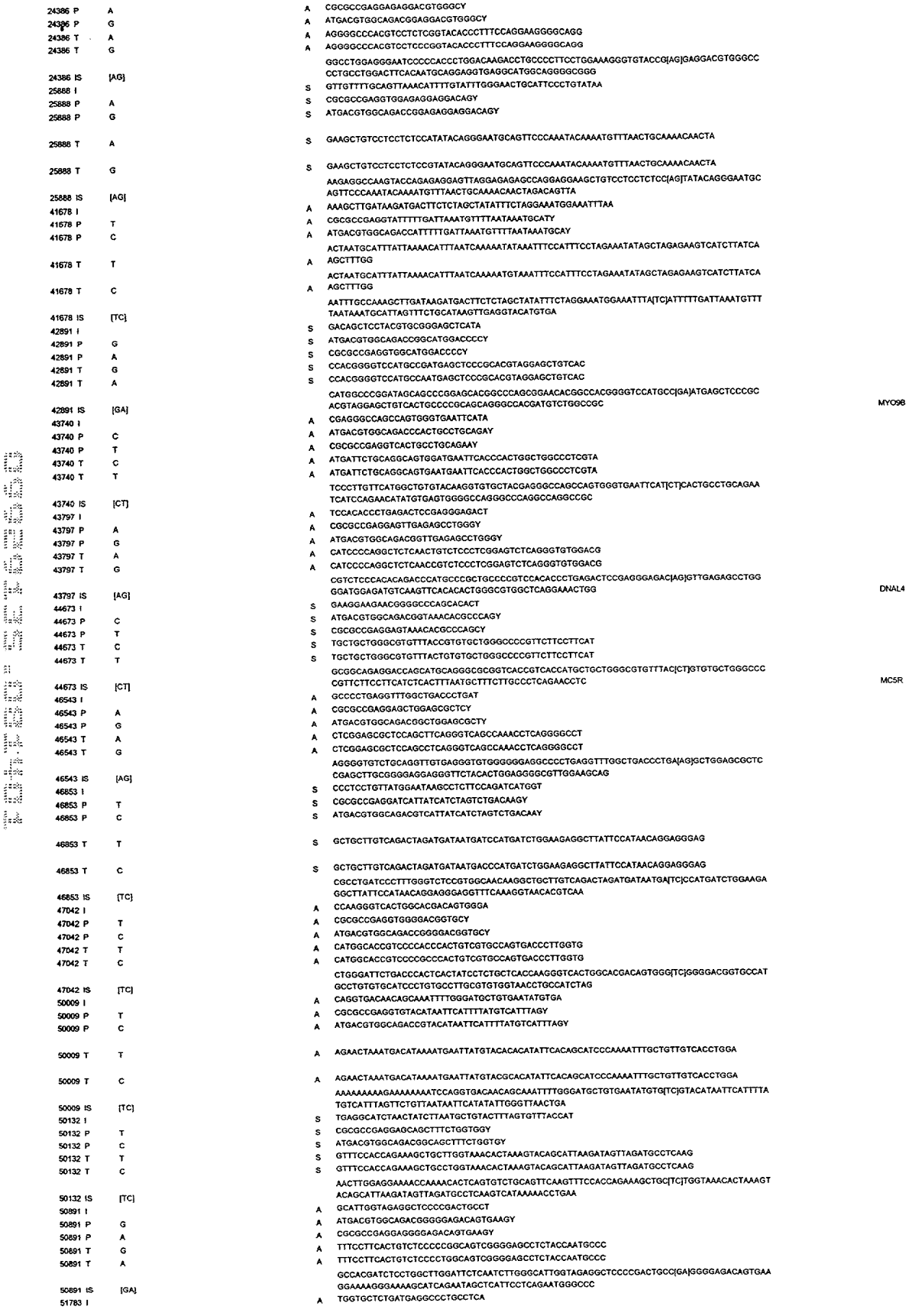


FIGURE 129D

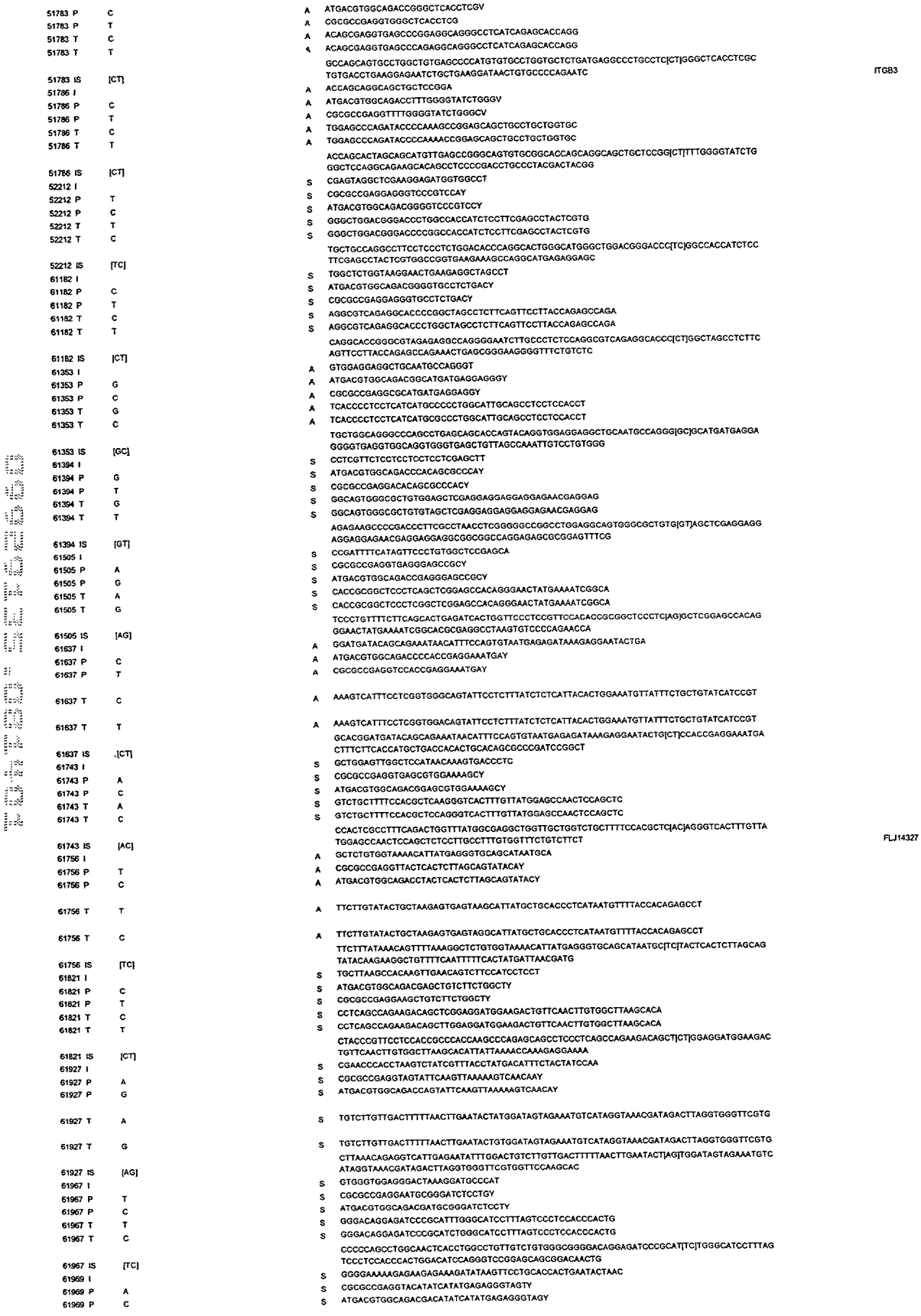

51783 P C
51783 P T
51783 T C
51783 T T
51783 IS [CT]
51786 I
51786 P C
51786 P T
51786 T C
51786 T T
51786 IS [CT]
52212 I
52212 P T
52212 P C
52212 T T
52212 T C
52212 IS [TC]
61182 I
61182 P C
61182 P T
61182 T C
61182 T T
61182 IS [CT]
61353 I
61353 P G
61353 P C
61353 T G
61353 T C
61353 IS [GC]
61394 I
61394 P G
61394 P T
61394 T G
61394 T T
61394 IS [GT]
61505 I
61505 P A
61505 P G
61505 T A
61505 T G
61505 IS [AG]
61637 I
61637 P C
61637 P T
61637 T C
61637 T T
61637 IS [CT]
61743 I
61743 P A
61743 P C
61743 T A
61743 T C
61743 IS [AC]
61756 I
61756 P T
61756 P C
61756 T T
61756 T C
61756 IS [TC]
61821 I
61821 P C
61821 P T
61821 T C
61821 T T
61821 IS [CT]
61927 I
61927 P A
61927 P G
61927 T A
61927 T G
61927 IS [AG]
61967 I
61967 P T
61967 P C
61967 T T
61967 T C
61967 IS [TC]
61969 I
61969 P A
61969 P C
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A CGCGCCGAGGTGGGCTCACCTCG
A ACAGCGAGGTGAGCCCGGAGGCAGGGCCTCATCAGAGCACCAGG
A ACAGCGAGGTGAGCCCAGAGGCAGGGCCTCATCAGAGCACCAGG
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A ACCAGCAGGCAGCTGCTCCGGA
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S CGCGCCGAGGAGGGTCCCGTCCAY
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S GGGCTGGACGGGACCCCGGCCACCATCTCCTTCGAGCCTACTCGTG
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S ATGACGTGGCAGACCGAGGGAGCCGCY
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A ATGACGTGGCAGACCCCACCGAGGAAATGAY
A CGCGCCGAGGTCCACCGAGGAAATGAY
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FLJ14327

FIGURE 129D

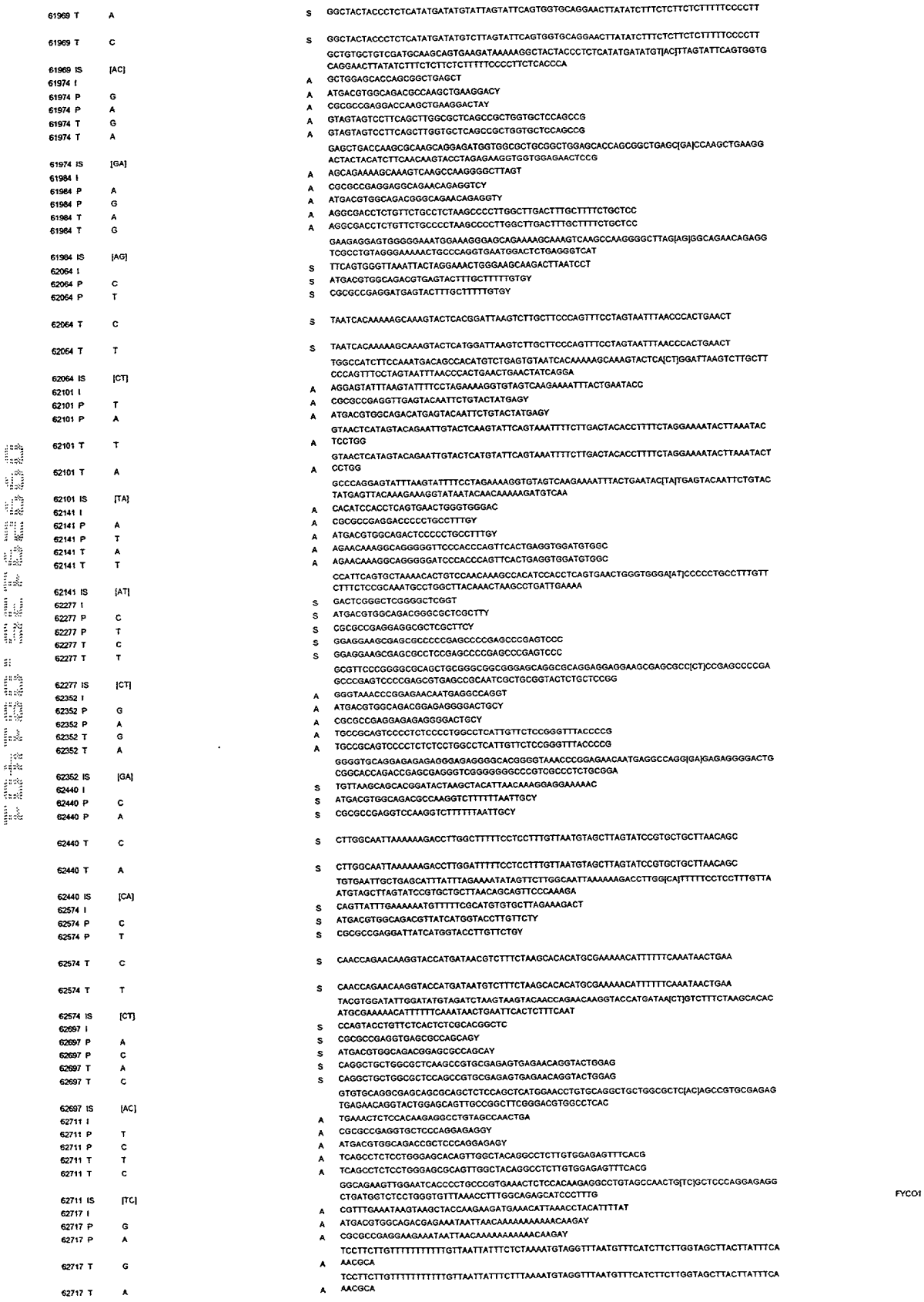

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61974 P G A ATGACGTGGCAGACGCCAAGCTGAAGGACY
61974 P A A CGCGCCGAGGACCAAGCTGAAGGACTAY
61974 T G A GTAGTAGTCCTTCAGCTTGGCGCTCAGCCGCTGGTGCTCCAGCCG
61974 T A A GTAGTAGTCCTTCAGCTTGGTGCTCAGCCGCTGGTGCTCCAGCCG
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61984 I A AGCAGAAAAGCAAAGTCAAGCCAAGGGGCTTAGT
61984 P A A CGCGCCGAGGAGGCAGAACAGAGGTCY
61984 P G A ATGACGTGGCAGACGGGCAGAACAGAGGTY
61984 T A A AGGCGACCTCTGTTCTGCCTCTAAGCCCCTTGGCTTGACTTTGCTTTTCTGCTCC
61984 T G A AGGCGACCTCTGTTCTGCCCCTAAGCCCCTTGGCTTGACTTTGCTTTTCTGCTCC
61984 IS [AG] GAAGAGGAGTGGGGGAAATGGAAAGGGAGCAGAAAAGCAAAGTCAAGCCAAGGGGCTTAG[AG]GGCAGAACAGAGG TCGCCTGTAGGGAAAAACTGCCCAGGTGAATGGACTCTGAGGGTCAT
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62064 P C S ATGACGTGGCAGACGTGAGTACTTTGCTTTTTGTGY
62064 P T S CGCGCCGAGGATGAGTACTTTGCTTTTTGTGY
62064 T C S TAATCACAAAAAGCAAAGTACTCACGGATTAAGTCTTGCTTCCCAGTTTCCTAGTAATTTAACCCACTGAACT
62064 T T S TAATCACAAAAAGCAAAGTACTCATGGATTAAGTCTTGCTTCCCAGTTTCCTAGTAATTTAACCCACTGAACT
62064 IS [CT] TGGCCATCTTCCAAATGACAGCCACATGTCTGAGTGTAATCACAAAAAGCAAAGTACTCA[CT]GGATTAAGTCTTGCTT CCCAGTTTCCTAGTAATTTAACCCACTGAACTGAACTATCAGGA
62101 I A AGGAGTATTTAAGTATTTTCCTAGAAAAGGTGTAGTCAAGAAAATTTACTGAATACC
62101 P T A CGCGCCGAGGTTGAGTACAATTCTGTACTATGAGY
62101 P A A ATGACGTGGCAGACATGAGTACAATTCTGTACTATGAGY
62101 T T A GTAACTCATAGTACAGAATTGTACTCAAGTATTCAGTAAATTTTCTTGACTACACCTTTTCTAGGAAAATACTTAAATAC TCCTGG
62101 T A A GTAACTCATAGTACAGAATTGTACTCATGTATTCAGTAAATTTTCTTGACTACACCTTTTCTAGGAAAATACTTAAATACT CCTGG
62101 IS [TA] GCCCAGGAGTATTTAAGTATTTTCCTAGAAAAGGTGTAGTCAAGAAAATTTACTGAATAC[TA]TGAGTACAATTCTGTAC TATGAGTTACAAAGAAAGGTATAATACAACAAAAAGATGTCAA
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62141 P A A CGCGCCGAGGACCCCCTGCCTTTGY
62141 P T A ATGACGTGGCAGACTCCCCCTGCCTTTGY
62141 T A A AGAACAAAGGCAGGGGGTTCCCACCCAGTTCACTGAGGTGGATGTGGC
62141 T T A AGAACAAAGGCAGGGGGATCCCACCCAGTTCACTGAGGTGGATGTGGC
62141 IS [AT] CCATTCAGTGCTAAAACACTGTCCAACAAAGCCACATCCACCTCAGTGAACTGGGTGGGA[AT]CCCCCTGCCTTTGTT CTTTCTCCGCAAATGCCTGGCTTACAAACTAAGCCTGATTGAAAA
62277 I S GACTCGGGCTCGGGGCTCGGT
62277 P C S ATGACGTGGCAGACGGGCGCTCGCTTY
62277 P T S CGCGCCGAGGAGGCGCTCGCTTCY
62277 T C S GGAGGAAGCGAGCGCCCCCGAGCCCCGAGCCCGAGTCCC
62277 T T S GGAGGAAGCGAGCGCCTCCGAGCCCCGAGCCCGAGTCCC
62277 IS [CT] GCGTTCCCGGGGCGCAGCTGCGGGCGGCGGGAGCAGGCGCAGGAGGAGGAAGCGAGCGCC[CT]CCGAGCCCCGA GCCCGAGTCCCCGAGCGTGAGCCGCAATCGCTGCGGTACTCTGCTCCGG
62352 I A GGGTAAACCCGGAGAACAATGAGGCCAGGT
62352 P G A ATGACGTGGCAGACGGAGAGGGGACTGCY
62352 P A A CGCGCCGAGGAGAGAGGGGACTGCY
62352 T G A TGCCGCAGTCCCCTCTCCCCTGGCCTCATTGTTCTCCGGGTTTACCCCG
62352 T A A TGCCGCAGTCCCCTCTCTCCTGGCCTCATTGTTCTCCGGGTTTACCCCG
62352 IS [GA] GGGGTGCAGGAGAGAGAGGGAGAGGGGCACGGGGTAAACCCGGAGAACAATGAGGCCAGG[GA]GAGAGGGGACTG CGGCACCAGACCGAGCGAGGGTCGGGGGGGCCCGTCGCCCTCTGCGGA
62440 I S TGTTAAGCAGCACGGATACTAAGCTACATTAACAAAGGAGGAAAAAC
62440 P C S ATGACGTGGCAGACGCCAAGGTCTTTTTTAATTGCY
62440 P A S CGCGCCGAGGTCCAAGGTCTTTTTTAATTGCY
62440 T C S CTTGGCAATTAAAAAAGACCTTGGCTTTTTCCTCCTTTGTTAATGTAGCTTAGTATCCGTGCTGCTTAACAGC
62440 T A S CTTGGCAATTAAAAAAGACCTTGGATTTTTCCTCCTTTGTTAATGTAGCTTAGTATCCGTGCTGCTTAACAGC
62440 IS [CA] TGTGAATTGCTGAGCATTTATTTAGAAAATATAGTTCTTGGCAATTAAAAAAGACCTTGG[CA]TTTTTCCTCCTTTGTTA ATGTAGCTTAGTATCCGTGCTGCTTAACAGCAGTTCCCAAAGA
62574 I S CAGTTATTTGAAAAAATGTTTTTCGCATGTGTGCTTAGAAAGACT
62574 P C S ATGACGTGGCAGACGTTATCATGGTACCTTGTTCTY
62574 P T S CGCGCCGAGGATTATCATGGTACCTTGTTCTGY
62574 T C S CAACCAGAACAAGGTACCATGATAACGTCTTTCTAAGCACACATGCGAAAAACATTTTTTCAAATAACTGAA
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62697 I S CCAGTACCTGTTCTCACTCTCGCACGGCTC
62697 P A S CGCGCCGAGGTGAGCGCCAGCAGY
62697 P C S ATGACGTGGCAGACGGAGCGCCAGCAY
62697 T A S CAGGCTGCTGGCGCTCAAGCCGTGCGAGAGTGAGAACAGGTACTGGAG
62697 T C S CAGGCTGCTGGCGCTCCAGCCGTGCGAGAGTGAGAACAGGTACTGGAG
62697 IS [AC] GTGTGCAGGCGAGCAGCGCAGCTCTCCAGCTCATGGAACCTGTGCAGGCTGCTGGCGCTC[AC]AGCCGTGCGAGAG TGAGAACAGGTACTGGAGCAGTTGCCGGCTTCGGGACGTGGCCTCAC
62711 I A TGAAACTCTCCACAAGAGGCCTGTAGCCAACTGA
62711 P T A CGCGCCGAGGTGCTCCCAGGAGAGGY
62711 P C A ATGACGTGGCAGACCGCTCCCAGGAGAGY
62711 T T A TCAGCCTCTCCTGGGAGCACAGTTGGCTACAGGCCTCTTGTGGAGAGTTTCACG
62711 T C A TCAGCCTCTCCTGGGAGCGCAGTTGGCTACAGGCCTCTTGTGGAGAGTTTCACG
62711 IS [TC] GGCAGAAGTTGGAATCACCCCTGCCCGTGAAACTCTCCACAAGAGGCCTGTAGCCAACTG[TC]GCTCCCAGGAGAGG CTGATGGTCTCCTGGGTGTTTAAACCTTTGGCAGAGCATCCCTTTG
62717 I A CGTTTGAAATAAGTAAGCTACCAAGAAGATGAAACATTAAACCTACATTTTAT
62717 P G A ATGACGTGGCAGACGAGAAATAATTAACAAAAAAAAAAACAAGAY
62717 P A A CGCGCCGAGGAAGAAATAATTAACAAAAAAAAAAACAAGAY
62717 T G A TCCTTCTTGTTTTTTTTTTTGTTAATTATTTCTCTAAAATGTAGGTTTAATGTTTCATCTTCTTGGTAGCTTACTTATTTCA AACGCA
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FYCO1

FIGURE 129D

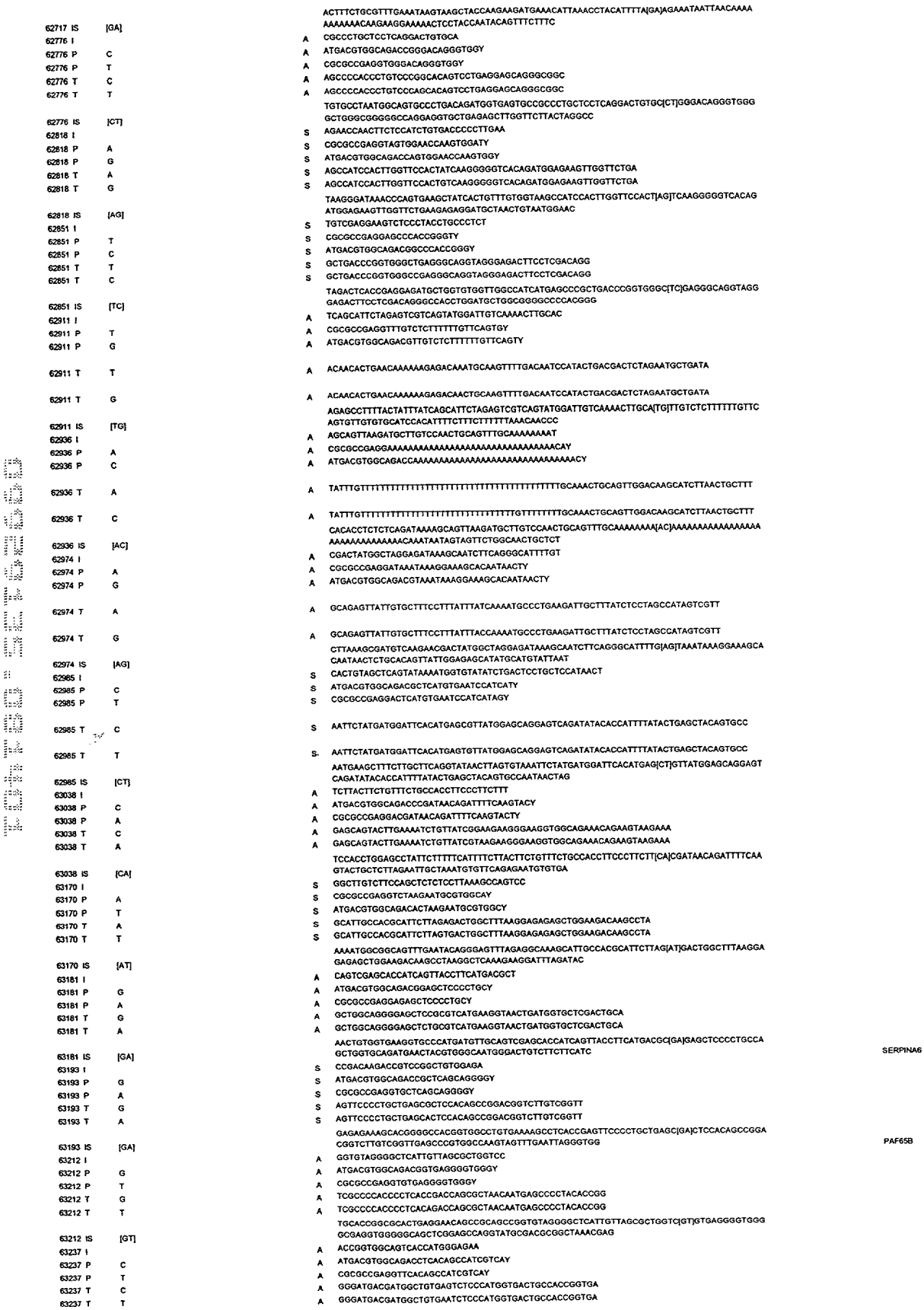

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62776 P C
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62776 T T
62776 IS [CT]
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62818 T G
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S CGCGCCGAGGACTCATGTGAATCCATCATAGY
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S GGCTTGTCTTCCAGCTCTCTCCTTAAAGCCAGTCC
S CGCGCCGAGGTCTAAGAATGCGTGGCAY
S ATGACGTGGCAGACACTAAGAATGCGTGGCY
S GCATTGCCACGCATTCTTAGAGACTGGCTTTAAGGAGAGAGCTGGAAGACAAGCCTA
S GCATTGCCACGCATTCTTAGTGACTGGCTTTAAGGAGAGAGCTGGAAGACAAGCCTA
AAAATGGCGGCAGTTTGAATACAGGGAGTTTAGAGGCAAAGCATTGCCACGCATTCTTAG[AT]GACTGGCTTTAAGGA
GAGAGCTGGAAGACAAGCCTAAGGCTCAAAGAAGGATTTAGATAC
A CAGTCGAGCACCATCAGTTACCTTCATGACGCT
A ATGACGTGGCAGACGGAGCTCCCCTGCY
A CGCGCCGAGGAGAGCTCCCCTGCY
A GCTGGCAGGGGAGCTCCGCGTCATGAAGGTAACTGATGGTGCTCGACTGCA
A GCTGGCAGGGGAGCTCTGCGTCATGAAGGTAACTGATGGTGCTCGACTGCA
AACTGTGGTGAAGGTGCCCATGATGTTGCAGTCGAGCACCATCAGTTACCTTCATGACGC[GA]GAGCTCCCCTGCCA
GCTGGTGCAGATGAACTACGTGGGCAATGGGACTGTCTTCTTCATC
S CCGACAAGACCGTCCGGCTGTGGAGA
S ATGACGTGGCAGACCGCTCAGCAGGGGY
S CGCGCCGAGGTGCTCAGCAGGGGY
S AGTTCCCCTGCTGAGCGCTCCACAGCCGGACGGTCTTGTCGGTT
S AGTTCCCCTGCTGAGCACTCCACAGCCGGACGGTCTTGTCGGTT
GAGAGAAAGCACGGGGCCACGGTGGCCTGTGAAAGCCTCACCGAGTTCCCCTGCTGAGC[GA]CTCCACAGCCGGA
CGGTCTTGTCGGTTGAGCCCGTGGCCAAGTAGTTTGAATTAGGGTGG
A GGTGTAGGGGCTCATTGTTAGCGCTGGTCC
A ATGACGTGGCAGACGGTGAGGGGTGGGY
A CGCGCCGAGGTGTGAGGGGTGGGY
A TCGCCCCACCCCTCACCGACCAGCGCTAACAATGAGCCCCTACACCGG
A TCGCCCCACCCCTCACAGACCAGCGCTAACAATGAGCCCCTACACCGG
TGCACCGGCGCACTGAGGAACAGCCGCAGCCGGTGTAGGGGCTCATTGTTAGCGCTGGTC[GT]GTGAGGGGTGGG
GCGAGGTGGGGGCAGCTCGGAGCCAGGTATGCGACGCGGCTAAACGAG
A ACCGGTGGCAGTCACCATGGGAGAA
A ATGACGTGGCAGACCTCACAGCCATCGTCAY
A CGCGCCGAGGTTCACAGCCATCGTCAY
A GGGATGACGATGGCTGTGAGTCTCCCATGGTGACTGCCACCGGTGA
A GGGATGACGATGGCTGTGAATCTCCCATGGTGACTGCCACCGGTGA
SERPINA6
PAF65B

FIGURE 129D

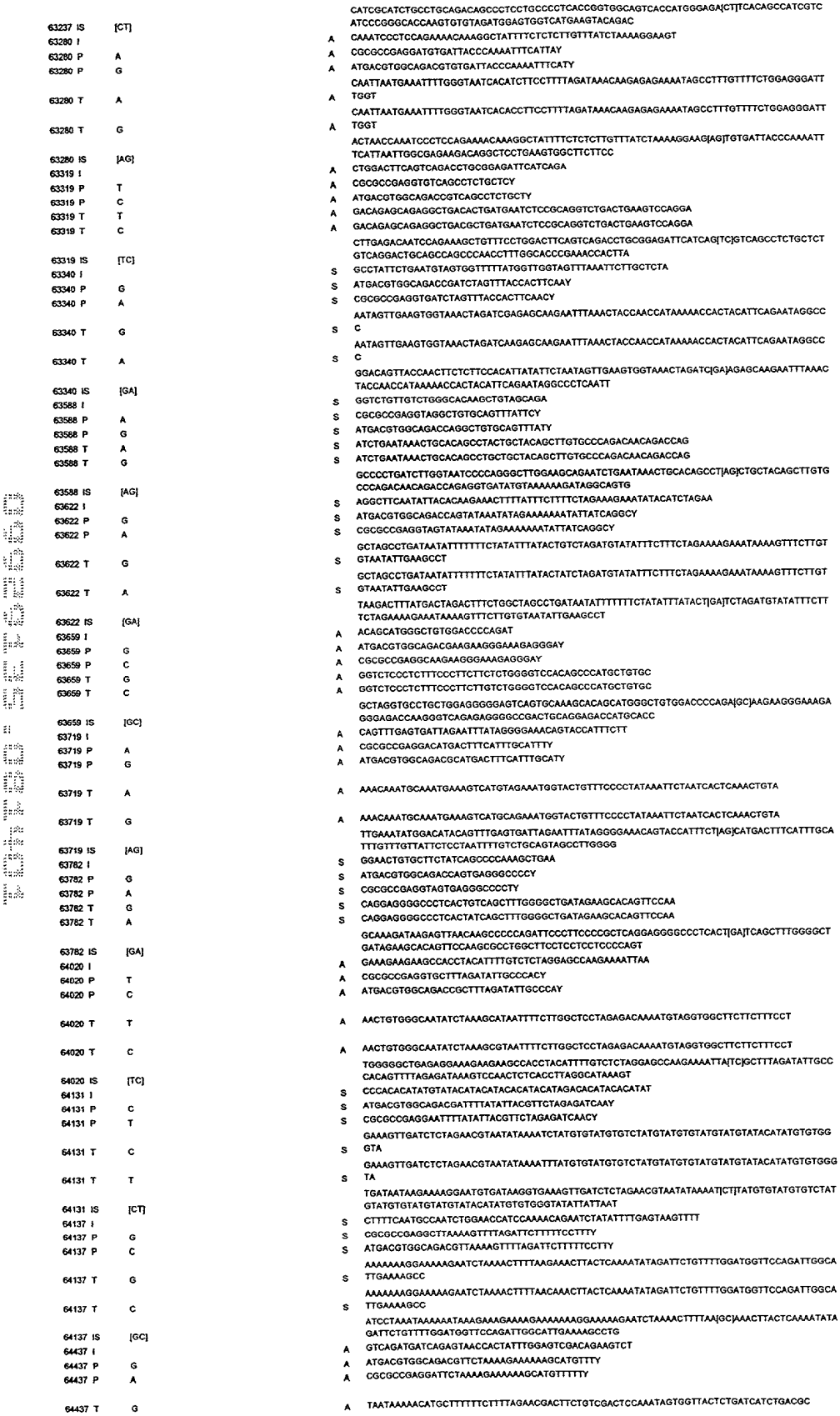


FIGURE 129D

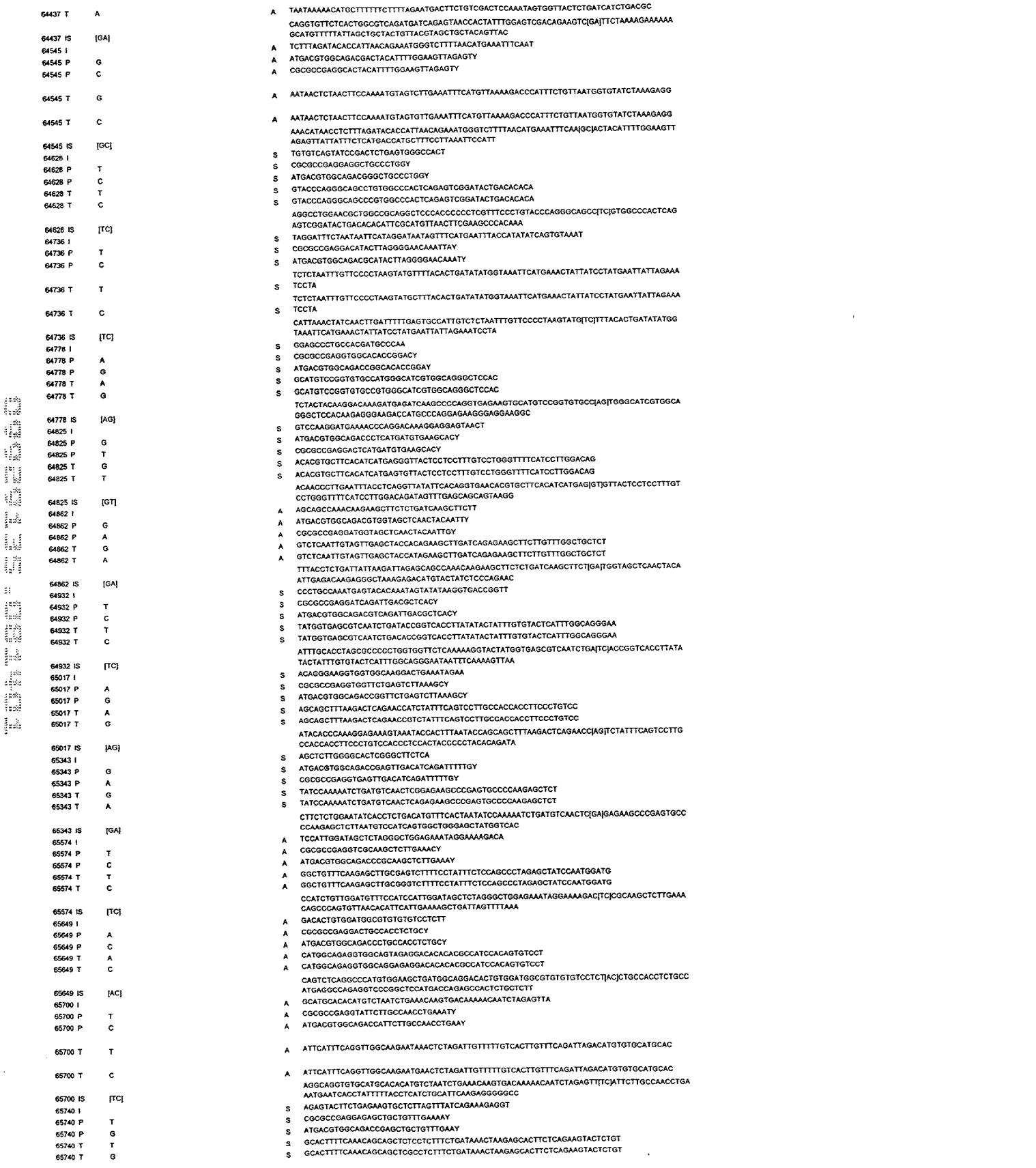

64437 T A
A TAATAAAAACATGCTTTTTTCTTTTAGAATGACTTCTGTCGACTCCAAATAGTGGTTACTCTGATCATCTGACGC
CAGGTGTTCTCACTGGCGTCAGATGATCAGAGTAACCACTATTTGGAGTCGACAGAAGTC[GA]TTCTAAAAGAAAAAA
GCATGTTTTTATTAGCTGCTACTGTTACGTAGCTGCTACAGTTAC
64437 IS [GA]
64545 I
A TCTTTAGATACACCATTAACAGAAATGGGTCTTTTAACATGAAATTTCAAT
64545 P G
A ATGACGTGGCAGACGACTACATTTTGGAAGTTAGAGTY
64545 P C
A CGCGCCGAGGCACTACATTTTGGAAGTTAGAGTY
64545 T G
A AATAACTCTAACTTCCAAAATGTAGTCTTGAAATTTCATGTTAAAAGACCCATTTCTGTTAATGGTGTATCTAAAGAGG
64545 T C
A AATAACTCTAACTTCCAAAATGTAGTGTTGAAATTTCATGTTAAAAGACCCATTTCTGTTAATGGTGTATCTAAAGAGG
AAACATAACCTCTTTAGATACACCATTAACAGAAATGGGTCTTTTAACATGAAATTTCAA[GC]ACTACATTTTGGAAGTT
AGAGTTATTATTTCTCATGACCATGCTTTCCTTAAATTCCATT
64545 IS [GC]
64628 I
S TGTGTCAGTATCCGACTCTGAGTGGGCCACT
64628 P T
S CGCGCCGAGGAGGCTGCCCTGGY
64628 P C
S ATGACGTGGCAGACGGGCTGCCCTGGY
64628 T T
S GTACCCAGGGCAGCCTGTGGCCCACTCAGAGTCGGATACTGACACACA
64628 T C
S GTACCCAGGGCAGCCCGTGGCCCACTCAGAGTCGGATACTGACACACA
AGGCCTGGAACGCTGGCCGCAGGCTCCCACCCCCCTCGTTTCCCTGTACCCAGGGCAGCC[TC]GTGGCCCACTCAG
AGTCGGATACTGACACACATTCGCATGTTAACTTCGAAGCCCACAAA
64628 IS [TC]
64736 I
S TAGGATTTCTAATAATTCATAGGATAATAGTTTCATGAATTTACCATATATCAGTGTAAAT
64736 P T
S CGCGCCGAGGACATACTTAGGGGAACAAATTAY
64736 P C
S ATGACGTGGCAGACGCATACTTAGGGGAACAAATY
TCTCTAATTTGTTCCCCTAAGTATGTTTTACACTGATATATGGTAAATTCATGAAACTATTATCCTATGAATTATTAGAAA
64736 T T
S TCCTA
TCTCTAATTTGTTCCCCTAAGTATGCTTTACACTGATATATGGTAAATTCATGAAACTATTATCCTATGAATTATTAGAAA
64736 T C
S TCCTA
CATTAAACTATCAACTTGATTTTTGAGTGCCATTGTCTCTAATTTGTTCCCCTAAGTATG[TC]TTTACACTGATATATGG
TAAATTCATGAAACTATTATCCTATGAATTATTAGAAATCCTA
64736 IS [TC]
64778 I
S GGAGCCCTGCCACGATGCCCAA
64778 P A
S CGCGCCGAGGTGGCACACCGGACY
64778 P G
S ATGACGTGGCAGACCGGCACACCGGAY
64778 T A
S GCATGTCCGGTGTGCCATGGGCATCGTGGCAGGGCTCCAC
64778 T G
S GCATGTCCGGTGTGCCGTGGGCATCGTGGCAGGGCTCCAC
TCTACTACAAGGACAAAGATGAGATCAAGCCCCAGGTGAGAAGTGCATGTCCGGTGTGCC[AG]TGGGCATCGTGGCA
GGGCTCCACAAGAGGGAAGACCATGCCCAGGAGAAGGGAGGAAGGC
64778 IS [AG]
64825 I
S GTCCAAGGATGAAAACCCAGGACAAAGGAGGAGTAACT
64825 P G
S ATGACGTGGCAGACCCTCATGATGTGAAGCACY
64825 P T
S CGCGCCGAGGACTCATGATGTGAAGCACY
64825 T G
S ACACGTGCTTCACATCATGAGGGTTACTCCTCCTTTGTCCTGGGTTTTCATCCTTGGACAG
64825 T T
S ACACGTGCTTCACATCATGAGTGTTACTCCTCCTTTGTCCTGGGTTTTCATCCTTGGACAG
ACAACCCTTGAATTTACCTCAGGTTATATTCACAGGTGAACACGTGCTTCACATCATGAG[GT]GTTACTCCTCCTTTGT
CCTGGGTTTTCATCCTTGGACAGATAGTTTGAGCAGCAGTAAGG
64825 IS [GT]
64862 I
A AGCAGCCAAACAAGAAGCTTCTCTGATCAAGCTTCTT
64862 P G
A ATGACGTGGCAGACGTGGTAGCTCAACTACAATTY
64862 P A
A CGCGCCGAGGATGGTAGCTCAACTACAATTGY
64862 T G
A GTCTCAATTGTAGTTGAGCTACCACAGAAGCTTGATCAGAGAAGCTTCTTGTTTGGCTGCTCT
64862 T A
A GTCTCAATTGTAGTTGAGCTACCATAGAAGCTTGATCAGAGAAGCTTCTTGTTTGGCTGCTCT
TTTACCTCTGATTATTAAGATTAGAGCAGCCAAACAAGAAGCTTCTCTGATCAAGCTTCT[GA]TGGTAGCTCAACTACA
ATTGAGACAAGAGGGCTAAAGAGACATGTACTATCTCCCAGAAC
64862 IS [GA]
64932 I
S CCCTGCCAAATGAGTACACAAATAGTATATAAGGTGACCGGTT
64932 P T
S CGCGCCGAGGATCAGATTGACGCTCACY
64932 P C
S ATGACGTGGCAGACGTCAGATTGACGCTCACY
64932 T T
S TATGGTGAGCGTCAATCTGATACCGGTCACCTTATATACTATTTGTGTACTCATTTGGCAGGGAA
64932 T C
S TATGGTGAGCGTCAATCTGACACCGGTCACCTTATATACTATTTGTGTACTCATTTGGCAGGGAA
ATTTGCACCTAGCGCCCCCTGGTGGTTCTCAAAAAGGTACTATGGTGAGCGTCAATCTGA[TC]ACCGGTCACCTTATA
TACTATTTGTGTACTCATTTGGCAGGGAATAATTTCAAAAGTTAA
64932 IS [TC]
65017 I
S ACAGGGAAGGTGGTGGCAAGGACTGAAATAGAA
65017 P A
S CGCGCCGAGGTGGTTCTGAGTCTTAAAGCY
65017 P G
S ATGACGTGGCAGACCGGTTCTGAGTCTTAAAGCY
65017 T A
S AGCAGCTTTAAGACTCAGAACCATCTATTTCAGTCCTTGCCACCACCTTCCCTGTCC
65017 T G
S AGCAGCTTTAAGACTCAGAACCGTCTATTTCAGTCCTTGCCACCACCTTCCCTGTCC
ATACACCCAAAGGAGAAAGTAAATACCACTTTAATACCAGCAGCTTTAAGACTCAGAACC[AG]TCTATTTCAGTCCTTG
CCACCACCTTCCCTGTCCACCCTCCACTACCCCCTACACAGATA
65017 IS [AG]
65343 I
S AGCTCTTGGGGCACTCGGGCTTCTCA
65343 P G
S ATGACGTGGCAGACCGAGTTGACATCAGATTTTTGY
65343 P A
S CGCGCCGAGGTGAGTTGACATCAGATTTTTGY
65343 T G
S TATCCAAAAATCTGATGTCAACTCGGAGAAGCCCGAGTGCCCCAAGAGCTCT
65343 T A
S TATCCAAAAATCTGATGTCAACTCAGAGAAGCCCGAGTGCCCCAAGAGCTCT
CTTCTCTGGAATATCACCTCTGACATGTTTCACTAATATCCAAAAATCTGATGTCAACTC[GA]GAGAAGCCCGAGTGCC
CCAAGAGCTCTTAATGTCCATCAGTGGCTGGGAGCTATGGTCAC
65343 IS [GA]
65574 I
A TCCATTGGATAGCTCTAGGGCTGGAGAAATAGGAAAAGACA
65574 P T
A CGCGCCGAGGTCGCAAGCTCTTGAAACY
65574 P C
A ATGACGTGGCAGACCCGCAAGCTCTTGAAAY
65574 T T
A GGCTGTTTCAAGAGCTTGCGAGTCTTTTCCTATTTCTCCAGCCCTAGAGCTATCCAATGGATG
65574 T C
A GGCTGTTTCAAGAGCTTGCGGGTCTTTTCCTATTTCTCCAGCCCTAGAGCTATCCAATGGATG
CCATCTGTTGGATGTTTCCATCCATTGGATAGCTCTAGGGCTGGAGAAATAGGAAAAGAC[TC]CGCAAGCTCTTGAAA
CAGCCCAGTGTTAACACATTCATTGAAAAGCTGATTAGTTTTAAA
65574 IS [TC]
65649 I
A GACACTGTGGATGGCGTGTGTGTCCTCTT
65649 P A
A CGCGCCGAGGACTGCCACCTCTGCY
65649 P C
A ATGACGTGGCAGACCCTGCCACCTCTGCY
65649 T A
A CATGGCAGAGGTGGCAGTAGAGGACACACACGCCATCCACAGTGTCCT
65649 T C
A CATGGCAGAGGTGGCAGGAGAGGACACACACGCCATCCACAGTGTCCT
CAGTCTCAGGCCCATGTGGAAGCTGATGGCAGGACACTGTGGATGGCGTGTGTGTCCTCT[AC]CTGCCACCTCTGCC
ATGAGGCCAGAGGTCCCGGCTCCATGACCAGAGCCACTCTGCTCTT
65649 IS [AC]
65700 I
A GCATGCACACATGTCTAATCTGAAACAAGTGACAAAAACAATCTAGAGTTA
65700 P T
A CGCGCCGAGGTATTCTTGCCAACCTGAAATY
65700 P C
A ATGACGTGGCAGACCATTCTTGCCAACCTGAAY
65700 T T
A ATTCATTTCAGGTTGGCAAGAATAAACTCTAGATTGTTTTTGTCACTTGTTTCAGATTAGACATGTGTGCATGCAC
65700 T C
A ATTCATTTCAGGTTGGCAAGAATGAACTCTAGATTGTTTTTGTCACTTGTTTCAGATTAGACATGTGTGCATGCAC
AGGCAGGTGTGCATGCACACATGTCTAATCTGAAACAAGTGACAAAAACAATCTAGAGTT[TC]ATTCTTGCCAACCTGA
AATGAATCACCTATTTTTACCTCATCTGCATTCAAGAGGGGGCC
65700 IS [TC]
65740 I
S AGAGTACTTCTGAGAAGTGCTCTTAGTTTATCAGAAAGAGGT
65740 P T
S CGCGCCGAGGAGAGCTGCTGTTTGAAAAY
65740 P G
S ATGACGTGGCAGACCGAGCTGCTGTTTGAAY
65740 T T
S GCACTTTTCAAACAGCAGCTCTCCTCTTTCTGATAAACTAAGAGCACTTCTCAGAAGTACTCTGT
65740 T G
S GCACTTTTCAAACAGCAGCTCGCCTCTTTCTGATAAACTAAGAGCACTTCTCAGAAGTACTCTGT

FIGURE 129D

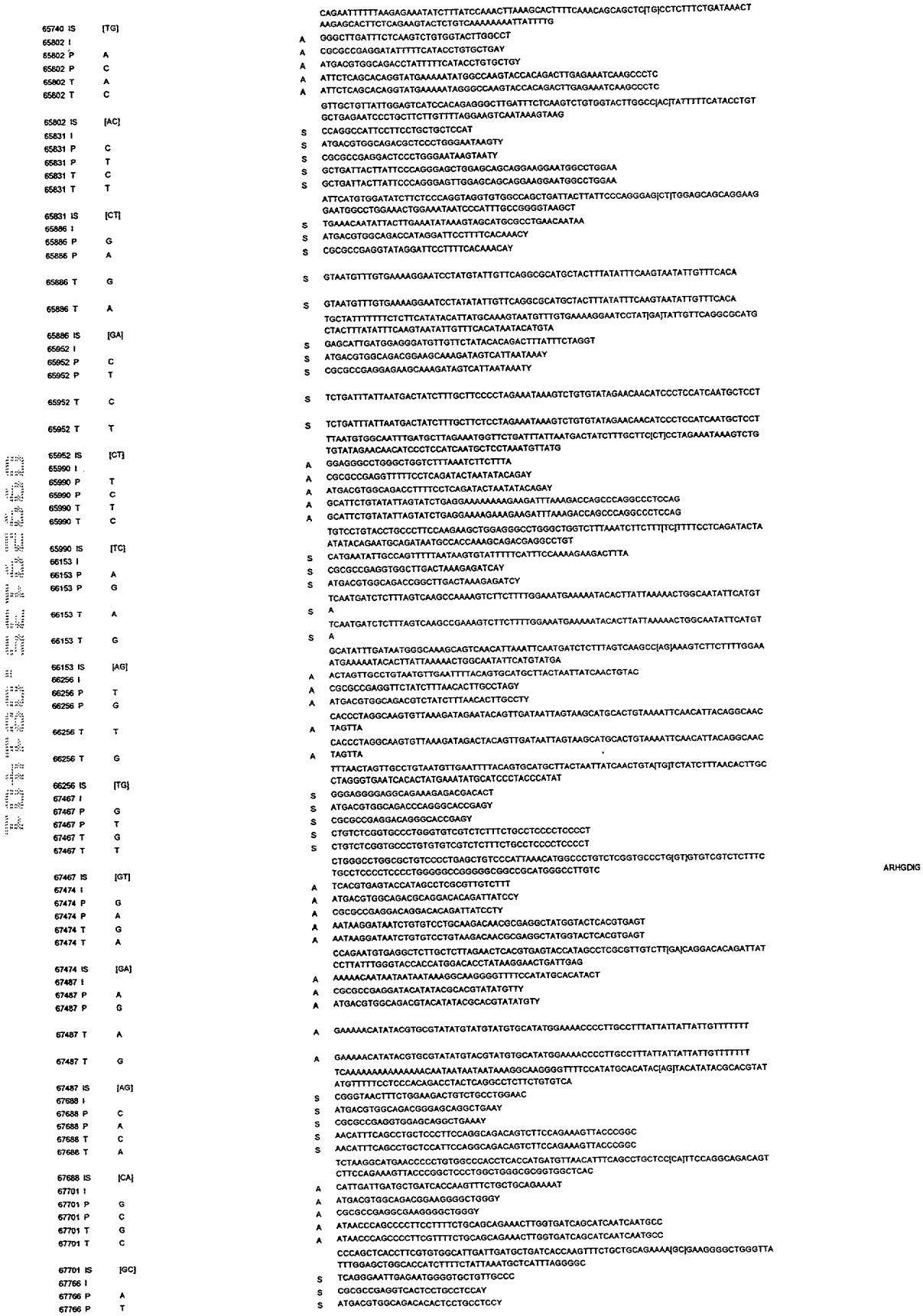


FIGURE 129D

67766 T	A	S	AGAATGGAGGCAGGAGTGAGGCAACAGCACCCCATTCTCAATTCCCTGACG
67766 T	T	S	AGAATGGAGGCAGGAGTGTGGCAACAGCACCCCATTCTCAATTCCCTGACG
			TTCTAGTGTCACATGACCCTAACATTCCGTATTATACACAACAGAATGGAGGCAGGAGTG[AT]GGCAACAGCACCCCA
			TTCTCAATTCCCTGACGCTCTCCCTCTCTCAAGAATTGCCATAAG
67766 IS	[AT]		
67767 I		S	AGAGCGTCAGGGAATTGAGAATGGGGTGCC
67767 P	A	S	CGCGCCGAGGTGTTGCCTCACTCCTGY
67767 P	T	S	ATGACGTGGCAGACAGTTGCCTCACTCCTGY
67767 T	A	S	GAGGCAGGAGTGAGGCAACAGCACCCCATTCTCAATTCCCTGACGCTCTCC
67767 T	T	S	GAGGCAGGAGTGAGGCAACTGCACCCCATTCTCAATTCCCTGACGCTCTCC
			GTCACATGACCCTAACATTCCGTATTATACACAACAGAATGGAGGCAGGAGTGAGGCAAC[AT]GCACCCCATTCTCAA
			TTCCCTGACGCTCTCCCTCTCTCAAGAATTGCCATAAGGTGCTGG
67767 IS	[AT]		
67906 I		A	ACTCAGACCTCAAAATGATACTATTTCAGAACACAGCACGGAACT
67906 P	A	A	CGCGCCGAGGATGTGTGTGTGTGTGTGY
67906 P	G	A	ATGACGTGGCAGACGTGTGTGTGTGTGTGY
67906 T	A	A	CACACACACACACACACACATGTTCCGTGCTGTGTTCTGAAATAGTATCATTTTGAGGTCTGAGTGC
67906 T	G	A	CACACACACACACACACACACGTTCCGTGCTGTGTTCTGAAATAGTATCATTTTGAGGTCTGAGTGC
			TTACATGGCTTCTGGCACTCAGACCTCAAAATGATACTATTTCAGAACACAGCACGGAAC[AG]TGTGTGTGTGTGTGT
			GTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTCTGTGCAGGAG
67906 IS	[AG]		
68220 I		A	CAATGCCATTTAATGACACTGGAAATAAAAGTACATGGCATATT
68220 P	C	A	ATGACGTGGCAGACCTTTGATGGGAACAGACTTY
68220 P	A	A	CGCGCCGAGGATTTGATGGGAACAGACTTGY
68220 T	C	A	GTGACAAGTCTGTTCCCATCAAAGATATGCCATGTACTTTTATTTCCAGTGTCATTAAATGGCATTGTT
68220 T	A	A	GTGACAAGTCTGTTCCCATCAAATATATGCCATGTACTTTTATTTCCAGTGTCATTAAATGGCATTGTT
			AGCACTCTTTTTAATAACAATGCCATTTAATGACACTGGAAATAAAAGTACATGGCATAT[CA]TTTGATGGGAACAGACT
			TGTCACATTCTCCTTTTTAAACTGTTTTTCAGGGTTTGGAGAA
68220 IS	[CA]		
68235 I		S	GGGCTAGAGCTGCCTTTTACAACTGTAACCACTGTAATT
68235 P	C	S	ATGACGTGGCAGACGAGAAGGCACAGGAGAY
68235 P	T	S	CGCGCCGAGGAAGAAGGCACAGGAGAY
68235 T	C	S	TGGGTCTCCTGTGCCTTCTCATTACAGTGGTTACAGTTGTAAAAGGCAGCTCTAGCCCTT
68235 T	T	S	TGGGTCTCCTGTGCCTTCTTATTACAGTGGTTACAGTTGTAAAAGGCAGCTCTAGCCCTT
			CCTGAAACGAGAGGAAGTAAAATGCCATTTGACTCCAGTGCTGGGTCTCCTGTGCCTTCT[CT]ATTACAGTGGTTACA
			GTTGTAAAAGGCAGCTCTAGCCCTTTTCTCCAGAGACAGGGCAGG
68235 IS	[CT]		
68424 I		A	AGGGTGCACTGCAGGTCAGTGACCTCT
68424 P	G	A	ATGACGTGGCAGACGGACCTGCTTATCTGGAY
68424 P	A	A	CGCGCCGAGGAGACCTGCTTATCTGGAGY
68424 T	G	A	GCAGCTCCAGATAAGCAGGTCCGAGGTCACTGACCTGCAGTGCACCCTCC
68424 T	A	A	GCAGCTCCAGATAAGCAGGTCTGAGGTCACTGACCTGCAGTGCACCCTCC
			GAGCTGCGAGTGCAGCTCAATCTCAAGACCCTGGAGGGTGCACTGCAGGTCAGTGACCTC[GA]GACCTGCTTATCTG
			GAGCTGCTCTATGTGGCCAGTGACCTCCTGGTTCAGTTCCTCAGTC
68424 IS	[GA]		
68429 I		S	GAGCCTTAGGTTCTTCTAGGAGCTGTCCTCCCT
68429 P	C	S	ATGACGTGGCAGACGTCTGTCTCTCAAGATGTAAAAY
68429 P	T	S	CGCGCCGAGGATCTGTCTCTCAAGATGTAAAATY
68429 T	C	S	GGAAATTTTACATCTTGAGAGACAGACGGGAGGACAGCTCCTAGAAGAACCTAAGGCTCTT
68429 T	T	S	GGAAATTTTACATCTTGAGAGACAGATGGGAGGACAGCTCCTAGAAGAACCTAAGGCTCTT
			ATAACGTGCTTTGGGTTTGGGGCATGTCATTATAGGAAATTTTACATCTTGAGAGACAGA[CT]GGGAGGACAGCTCCT
			AGAAGAACCTAAGGCTCTTCATTTTAAAGGCAGCACCCACAACCT
68429 IS	[CT]		
68471 I		A	TCCCTCCCATTAAGCAGAGGTGAACTGAGAAAGACTT
68471 P	G	A	ATGACGTGGCAGACGGACACCTCTGTGGTY
68471 P	A	A	CGCGCCGAGGAGACACCTCTGTGGTGY
68471 T	G	A	AACACACCACAGAGGTGTCCAGTCTTTCTCAGTTCACCTCTGCTTAATGGGAGGGAAG
68471 T	A	A	AACACACCACAGAGGTGTCTAGTCTTTCTCAGTTCACCTCTGCTTAATGGGAGGGAAG
			ATTTGAAGCCACCCGTGTTCTGCTTCCCTCCCATTAAGCAGAGGTGAACTGAGAAAGACT[GA]GACACCTCTGTGGTG
			TGTTCGACGCTGGGTGTCCCAGAAAAGGGGTAAGGGGTTGGGTGC
68471 IS	[GA]		
68475 I		A	TCTGGGAGTGAGGTAAATTTCACTTGCAATCTTCTAGC
68475 P	T	A	CGCGCCGAGGTCCTGATAGACAGAGAAAGAAY
68475 P	A	A	ATGACGTGGCAGACACCTGATAGACAGAGAAAGAY
68475 T	T	A	TTTGTTCTTTCTCTGTCTATCAGGACTAGAAGATTGCAAGTGAAATTTACCTCACTCCCAGAAA
68475 T	A	A	TTTGTTCTTTCTCTGTCTATCAGGTCTAGAAGATTGCAAGTGAAATTTACCTCACTCCCAGAAA
			TCATCTTGAATTTGAAATAATTTTCTGGGAGTGAGGTAAATTTCACTTGCAATCTTCTAG[TA]CCTGATAGACAGAGAAA
			GAACAAAAAGAAAAGAAGATTTCTTACTTTCCTCTAGTTGTTT
68475 IS	[TA]		
68487 I		S	GCCAAACCCCGCTACTAGTAGAACCAACAGTCTAAACT
68487 P	C	S	ATGACGTGGCAGACGAAAGAGCCACGACGY
68487 P	G	S	CGCGCCGAGGCAAAGAGCCACGACGY
68487 T	C	S	AGAGCGTCGTGGCTCTTTCGTTTAGACTGTTGGTTCTACTAGTAGCGGGGTTTGGCTT
68487 T	G	S	AGAGCGTCGTGGCTCTTTGGTTTAGACTGTTGGTTCTACTAGTAGCGGGGTTTGGCTT
			GCTCCCCGCAAGATTTTCAGCTTGCGAAGAGCGCACATGCGCAGAGCGTCGTGGCTCTTT[CG]GTTTAGACTGTTGG
			TTCTACTAGTAGCGGGGTTTGGCTTGGGGCCTTTAAGATGTTTTGA
68487 IS	[CG]		
68571 I		A	CAGGAGCAGGGCCCAGTGAAAAGAAACAACTA
68571 P	T	A	CGCGCCGAGGTTGTATTCCATCTAGTGAAAAAGAY
68571 P	C	A	ATGACGTGGCAGACCTGTATTCCATCTAGTGAAAAAGY
68571 T	T	A	ATACTCTTTTTCACTAGATGGAATACAAAGTTGTTTCTTTTCACTGGGCCCTGCTCCTGTT
68571 T	C	A	ATACTCTTTTTCACTAGATGGAATACAGAGTTGTTTCTTTTCACTGGGCCCTGCTCCTGTT
			TTAATAATGTATGGCTTATTAAGAGGAAACAGGAGCAGGGCCCAGTGAAAAGAAACAACT[TC]TGTATTCCATCTAGTG
			AAAAAGAGTATGTTTAACATTTATATGCCTACTTTGCAAATAAA
68571 IS	[TC]		
68588 I		A	ACTAGGAGGTAGGATGGAAAGTTAACATAGTTATTTATACAGGAAGTTAA
68588 P	T	A	CGCGCCGAGGTATTAAGAGTTCATTATATATCACGTTTTY
68588 P	C	A	ATGACGTGGCAGACCATTAAGAGTTCATTATATATCACGTTY
			AAAGAAAACGTGATATATAATGAACTCTTAATATAACTTCCTGTATAAATAACTATGTTAACTTTCCATCCTACCTCCTAG
68588 T	T	A	TAT
			AAAGAAAACGTGATATATAATGAACTCTTAATGTAACTTCCTGTATAAATAACTATGTTAACTTTCCATCCTACCTCCTA
68588 T	C	A	GTAT
			GCATCACAAATACTAGGAGGTAGGATGGAAAGTTAACATAGTTATTTATACAGGAAGTTA[TC]ATTAAGAGTTCATTATA
			TATCACGTTTTCTTTTTACTTTCTAAAAAATGTCTTTTTATTA
68588 IS	[TC]		
68622 I		S	GAGACGTGAATCCTCTTTGCTCCAACAATTGTT
68622 P	G	S	ATGACGTGGCAGACCCGGCTGTGACAATTCY
68622 P	T	S	CGCGCCGAGGACGGCTGTGACAATTCY
68622 T	G	S	CATAGAATTGTCACAGCCGGACAATTGTTGGAGCAAAGAGGATTCACGTCTCAT
68622 T	T	S	CATAGAATTGTCACAGCCGTACAATTGTTGGAGCAAAGAGGATTCACGTCTCAT
			ACAACCATTGGTGAGCAGGCAGTCAATGCCTGTGTTACTTTCATAGAATTGTCACAGCCG[GT]ACAATTGTTGGAGCA
			AAGAGGATTCACGTCTCATGATAATTTCCATGGCTGCAGTGTTAT
68622 IS	[GT]		
68676 I		S	GCTTGGGTGCAAGTAAAGATTGAGCAGGAAATAAAGGAAAATCAAT
68676 P	C	S	ATGACGTGGCAGACGTATAATCCCTGAGATTTGTAGAY
68676 P	G	S	CGCGCCGAGGCTATAATCCCTGAGATTTGTAGACY
68676 T	C	S	TTTAGTCTACAAATCTCAGGGATTATACTTGATTTTCCTTTATTTCCTGCTCAATCTTTACTTGCACCCAAGCCC

FIGURE 129D

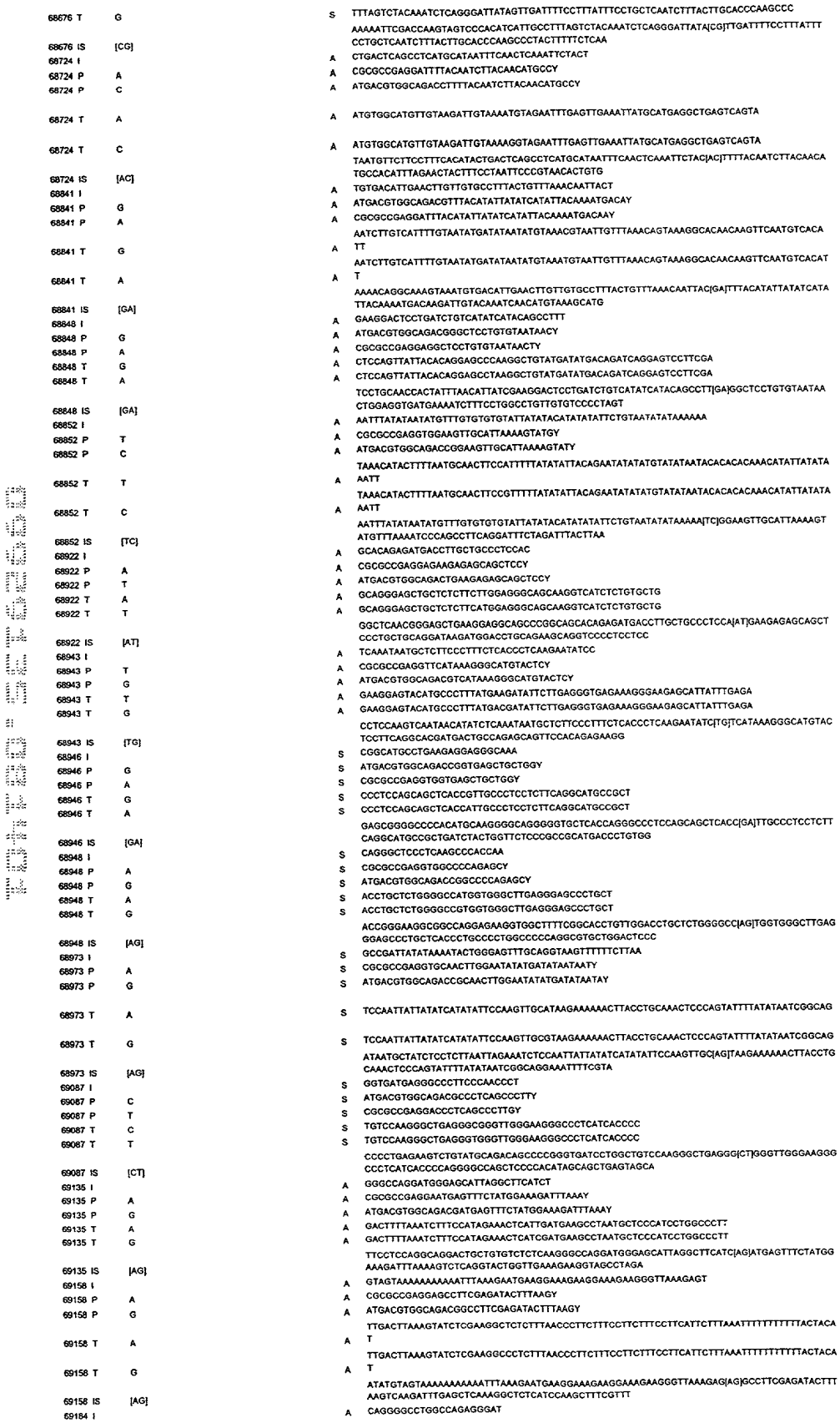


FIGURE 129D

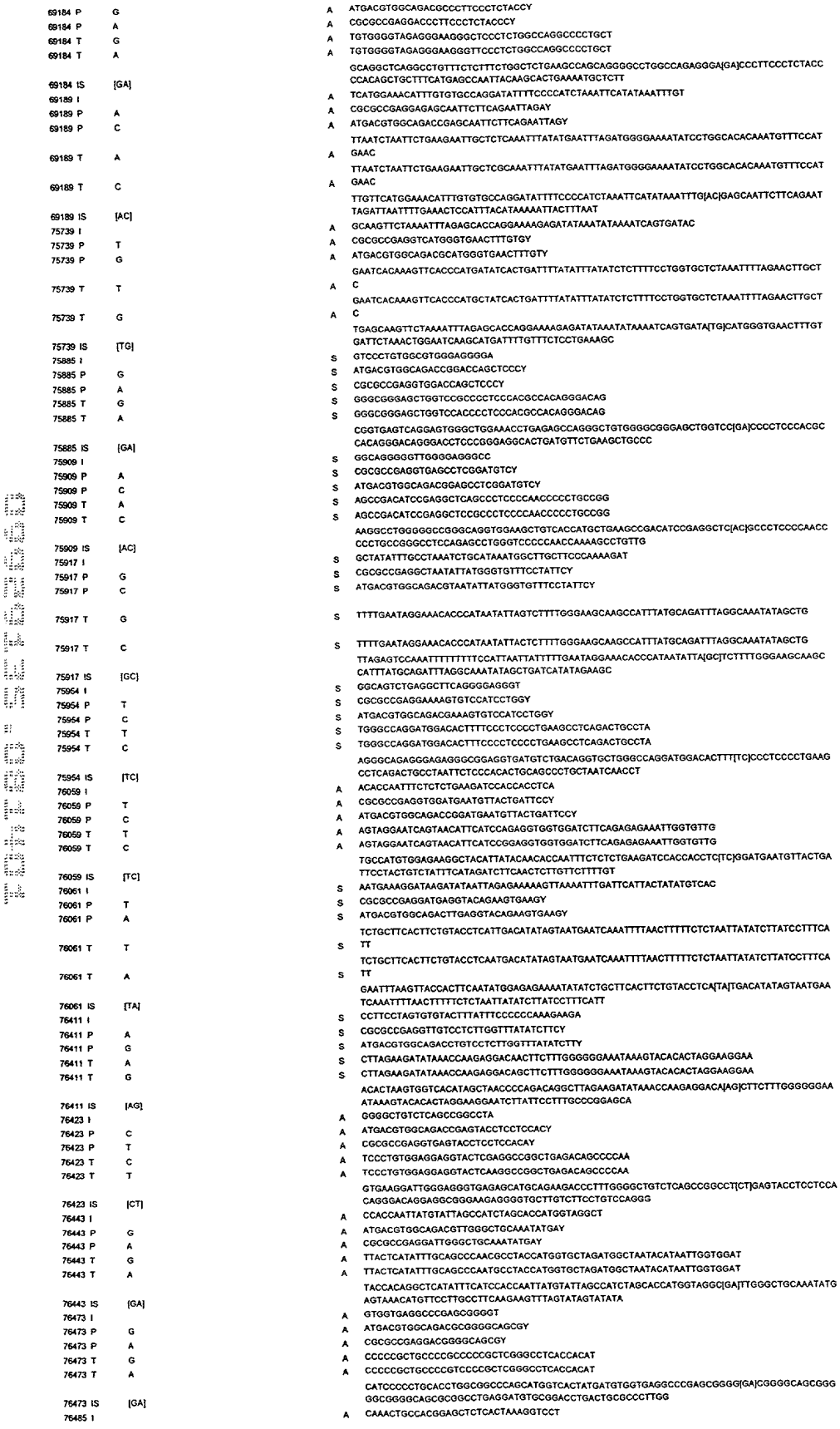

69184 P G
69184 P A
69184 T G
69184 T A
69184 IS [GA]
69189 I
69189 P A
69189 P C
69189 T A
69189 T C
69189 IS [AC]
75739 I
75739 P T
75739 P G
75739 T T
75739 T G
75739 IS [TG]
75885 I
75885 P G
75885 P A
75885 T G
75885 T A
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75909 I
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75909 P C
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75909 T C
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75917 I
75917 P G
75917 P C
75917 T G
75917 T C
75917 IS [GC]
75954 I
75954 P T
75954 P C
75954 T T
75954 T C
75954 IS [TC]
76059 I
76059 P T
76059 P C
76059 T T
76059 T C
76059 IS [TC]
76061 I
76061 P T
76061 P A
76061 T T
76061 T A
76061 IS [TA]
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76411 T G
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76423 T T
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76443 I
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76443 T G
76443 T A
76443 IS [GA]
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76473 P G
76473 P A
76473 T G
76473 T A
76473 IS [GA]
76485 I
A ATGACGTGGCAGACGCCCTTCCCTCTACCY
A CGCGCCGAGGACCCTTCCCTCTACCCY
A TGTGGGGTAGAGGGAAGGGCTCCCTCTGGCCAGGCCCCTGCT
A TGTGGGGTAGAGGGAAGGGTTCCCTCTGGCCAGGCCCCTGCT
GCAGGCTCAGGCCTGTTTCTCTTTCTGGCTCTGAAGCCAGCAGGGGCCTGGCCAGAGGGA[GA]CCCTTCCCTCTACC
CCACAGCTGCTTTCATGAGCCAATTACAAGCACTGAAAATGCTCTT
A TCATGGAAACATTTGTGTGCCAGGATATTTTCCCCATCTAAATTCATATAAATTTGT
A CGCGCCGAGGAGAGCAATTCTTCAGAATTAGAY
A ATGACGTGGCAGACCGAGCAATTCTTCAGAATTAGY
TTAATCTAATTCTGAAGAATTGCTCTCAAATTTATATGAATTTAGATGGGGAAAATATCCTGGCACACAAATGTTTCCAT
A GAAC
TTAATCTAATTCTGAAGAATTGCTCGCAAATTTATATGAATTTAGATGGGGAAAATATCCTGGCACACAAATGTTTCCAT
A GAAC
TTGTTCATGGAAACATTTGTGTGCCAGGATATTTTCCCCATCTAAATTCATATAAATTTG[AC]GAGCAATTCTTCAGAAT
TAGATTAATTTTGAAACTCCATTTACATAAAAATTACTTTAAT
A GCAAGTTCTAAAATTTAGAGCACCAGGAAAAGAGATATAAATATAAAATCAGTGATAC
A CGCGCCGAGGTCATGGGTGAACTTTGTGY
A ATGACGTGGCAGACGCATGGGTGAACTTTGTY
GAATCACAAAGTTCACCCATGATATCACTGATTTTATATTTATATCTCTTTTCCTGGTGCTCTAAATTTTAGAACTTGCT
A C
GAATCACAAAGTTCACCCATGCTATCACTGATTTTATATTTATATCTCTTTTCCTGGTGCTCTAAATTTTAGAACTTGCT
A C
TGAGCAAGTTCTAAAATTTAGAGCACCAGGAAAAGAGATATAAATATAAAATCAGTGATA[TG]CATGGGTGAACTTTGT
GATTCTAAACTGGAATCAAGCATGATTTTGTTTCTCCTGAAAGC
S GTCCCTGTGGCGTGGGAGGGGA
S ATGACGTGGCAGACCGGACCAGCTCCCY
S CGCGCCGAGGTGGACCAGCTCCCY
S GGGCGGGAGCTGGTCCGCCCCCTCCCACGCCACAGGGACAG
S GGGCGGGAGCTGGTCCACCCCTCCCACGCCACAGGGACAG
CGGTGAGTCAGGAGTGGGCTGGAAACCTGAGAGCCAGGGCTGTGGGGCGGGAGCTGGTCC[GA]CCCCTCCCACGC
CACAGGGACAGGGACCTCCCGGGAGGCACTGATGTTCTGAAGCTGCCC
S GGCAGGGGGTTGGGGAGGGCC
S CGCGCCGAGGTGAGCCTCGGATGTCY
S ATGACGTGGCAGACGGAGCCTCGGATGTCY
S AGCCGACATCCGAGGCTCAGCCCTCCCCAACCCCCTGCCGG
S AGCCGACATCCGAGGCTCCGCCCTCCCCAACCCCCTGCCGG
AAGGCCTGGGGGCCGGGCAGGTGGAAGCTGTCACCATGCTGAAGCCGACATCCGAGGCTC[AC]GCCCTCCCCAACC
CCCTGCCGGGCCTCCAGAGCCTGGGTCCCCCAACCAAAAGCCTGTTG
S GCTATATTTGCCTAAATCTGCATAAATGGCTTGCTTCCCAAAAGAT
S CGCGCCGAGGCTAATATTATGGGTGTTTCCTATTCY
S ATGACGTGGCAGACGTAATATTATGGGTGTTTCCTATTCY
S TTTTGAATAGGAAACACCCATAATATTAGTCTTTTGGGAAGCAAGCCATTTATGCAGATTTAGGCAAATATAGCTG
S TTTTGAATAGGAAACACCCATAATATTACTCTTTTGGGAAGCAAGCCATTTATGCAGATTTAGGCAAATATAGCTG
TTAGAGTCCAAATTTTTTTTTCCATTAATTATTTTTGAATAGGAAACACCCATAATATTA[GC]TCTTTTGGGAAGCAAGC
CATTTATGCAGATTTAGGCAAATATAGCTGATCATATAGAAGC
S GGCAGTCTGAGGCTTCAGGGGAGGGT
S CGCGCCGAGGAAAAGTGTCCATCCTGGY
S ATGACGTGGCAGACGAAAGTGTCCATCCTGGY
S TGGGCCAGGATGGACACTTTCCCTCCCCTGAAGCCTCAGACTGCCTA
S TGGGCCAGGATGGACACTTTCCCCTCCCCTGAAGCCTCAGACTGCCTA
AGGGCAGAGGGAGAGGGCGGAGGTGATGTCTGACAGGTGCTGGGCCAGGATGGACACTTT[TC]CCCTCCCCTGAAG
CCTCAGACTGCCTAATTCTCCCACACTGCAGCCCTGCTAATCAACCT
A ACACCAATTTCTCTCTGAAGATCCACCACCTCA
A CGCGCCGAGGTGGATGAATGTTACTGATTCCY
A ATGACGTGGCAGACCGGATGAATGTTACTGATTCCY
A AGTAGGAATCAGTAACATTCATCCAGAGGTGGTGGATCTTCAGAGAGAAATTGGTGTTG
A AGTAGGAATCAGTAACATTCATCCGGAGGTGGTGGATCTTCAGAGAGAAATTGGTGTTG
TGCCATGTGGAGAAGGCTACATTATACAACACCAATTTCTCTCTGAAGATCCACCACCTC[TC]GGATGAATGTTACTGA
TTCCTACTGTCTATTTCATAGATCTTCAACTCTTGTTCTTTTGT
S AATGAAAGGATAAGATATAATTAGAGAAAAAGTTAAAATTTGATTCATTACTATATGTCAC
S CGCGCCGAGGATGAGGTACAGAAGTGAAGY
S ATGACGTGGCAGACTTGAGGTACAGAAGTGAAGY
TCTGCTTCACTTCTGTACCTCATTGACATATAGTAATGAATCAAATTTTAACTTTTTCTCTAATTATATCTTATCCTTTCA
S TT
TCTGCTTCACTTCTGTACCTCAATGACATATAGTAATGAATCAAATTTTAACTTTTTCTCTAATTATATCTTATCCTTTCA
S TT
GAATTTAAGTTACCACTTCAATATGGAGAGAAAATATATCTGCTTCACTTCTGTACCTCA[TA]TGACATATAGTAATGAA
TCAAATTTTAACTTTTTCTCTAATTATATCTTATCCTTTCATT
S CCTTCCTAGTGTGTACTTTATTTCCCCCCAAAGAAGA
S CGCGCCGAGGTTGTCCTCTTGGTTTATATCTTCY
S ATGACGTGGCAGACCTGTCCTCTTGGTTTATATCTTY
S CTTAGAAGATATAAACCAAGAGGACAACTTCTTTGGGGGGAAATAAAGTACACACTAGGAAGGAA
S CTTAGAAGATATAAACCAAGAGGACAGCTTCTTTGGGGGGAAATAAAGTACACACTAGGAAGGAA
ACACTAAGTGGTCACATAGCTAACCCCAGACAGGCTTAGAAGATATAAACCAAGAGGACA[AG]CTTCTTTGGGGGGAA
ATAAAGTACACACTAGGAAGGAATCTTATTCCTTTGCCCGGAGCA
A GGGGCTGTCTCAGCCGGCCTA
A ATGACGTGGCAGACCGAGTACCTCCTCCACY
A CGCGCCGAGGTGAGTACCTCCTCCACAY
A TCCCTGTGGAGGAGGTACTCGAGGCCGGCTGAGACAGCCCCAA
A TCCCTGTGGAGGAGGTACTCAAGGCCGGCTGAGACAGCCCCAA
GTGAAGGATTGGGAGGGTGAGAGCATGCAGAAGACCCTTTGGGGCTGTCTCAGCCGGCCT[CT]GAGTACCTCCTCCA
CAGGGACAGGAGGCGGGAAGAGGGGTGCTTGTCTTCCTGTCCAGGG
A CCACCAATTATGTATTAGCCATCTAGCACCATGGTAGGCT
A ATGACGTGGCAGACGTTGGGCTGCAAATATGAY
A CGCGCCGAGGATTGGGCTGCAAATATGAY
A TTACTCATATTTGCAGCCCAACGCCTACCATGGTGCTAGATGGCTAATACATAATTGGTGGAT
A TTACTCATATTTGCAGCCCAATGCCTACCATGGTGCTAGATGGCTAATACATAATTGGTGGAT
TACCACAGGCTCATATTTCATCCACCAATTATGTATTAGCCATCTAGCACCATGGTAGGC[GA]TTGGGCTGCAAATATG
AGTAAACATGTTCCTTGCCTTCAAGAAGTTTAGTATAGTATATA
A GTGGTGAGGCCCGAGCGGGGT
A ATGACGTGGCAGACGCGGGGCAGCGY
A CGCGCCGAGGACGGGGCAGCGY
A CCCCCGCTGCCCCGCCCCCGCTCGGGCCTCACCACAT
A CCCCCGCTGCCCCGTCCCCGCTCGGGCCTCACCACAT
CATCCCCCTGCACCTGGCGGCCCAGCATGGTCACTATGATGTGGTGAGGCCCGAGCGGGG[GA]CGGGGCAGCGGG
GGCGGGGCAGCGCGGCCTGAGGATGTGCGGACCTGACTGCGCCCTTGG
A CAAACTGCCACGGAGCTCTCACTAAAGGTCCT

FIGURE 129D

76485 P	A		A	CGCGCCGAGGAGAAACTGCCAAGGCAY
76485 P	G		A	ATGACGTGGCAGACGGAAACTGCCAAGGCY
76485 T	A		A	*TGGCTGCCTTGGCAGTTTCTGGACCTTTAGTGAGAGCTCCGTGGCAGTTTGTC*
76485 T	G		A	TGGCTGCCTTGGCAGTTTCCGGACCTTTAGTGAGAGCTCCGTGGCAGTTTGTC
76485 IS	[AG]	GAGGAACTGACTAAGGGGAAAGACGCTGACAAACTGCCACGGAGCTCTCACTAAAGGTCC[AG]GAAACTGCCAAGGC AGCCACTTATCTCAGAAGGACTTTCCCTCCTGCAGCTGCAGACCTT		
76514 I			A	GTGGGAAATCAAAGGAAGGTTAGGACATTGCAAATCTCTAGTCC
76514 P	T		A	CGCGCCGAGGTGCCTAGTTCTCTGTCTCY
76514 P	A		A	ATGACGTGGCAGACAGCCTAGTTCTCTGTCTCY
76514 T	T		A	*AAAGGAGACAGAGAACTAGGCAGACTAGAGATTTGCAATGTCCTAACCTTCCTTTGATTTCCCACAT*
76514 T	A		A	AAAGGAGACAGAGAACTAGGCTGACTAGAGATTTGCAATGTCCTAACCTTCCTTTGATTTCCCACAT
76514 IS	[TA]	ACTTAGTACCCAGCTATGTGGGAAATCAAAGGAAGGTTAGGACATTGCAAATCTCTAGTC[TA]GCCTAGTTCTCTGTCT CCTTTGCTGTCTTCTATGGATGTTCTCTAAAATCCAGAACACCA		
76534 I			A	GAGTATATTCTTAACTATTTTTATTGAATTCTTAACTATTTTTATTGAATCATCAGATCTT
76534 P	G		A	ATGACGTGGCAGACGTAAAATTTTAAGTGAGAGCTATTGAY
76534 P	A		A	CGCGCCGAGGATAAAATTTTAAGTGAGAGCTATTGAY
76534 T	G	AGGTTCAATAGCTCTCACTTAAAATTTTACAGATCTGATGATTCAATAAAAATAGTTAAGAATTCAATAAAAATAGTTAAG AATATACTC	A	
76534 T	A	AGGTTCAATAGCTCTCACTTAAAATTTTATAGATCTGATGATTCAATAAAAATAGTTAAGAATTCAATAAAAATAGTTAAG AATATACTC	A	
76534 IS	[GA]	GAGTATATTCTTAACTATTTTTATTGAATTCTTAACTATTTTTATTGAATCATCAGATCT[GA]TAAAATTTTAAGTGAGAG *CTATTGAACCTGTATTAAGATAGAAAACTCTTAAGATAAGAA*		
76660 I			S	CACTGTCTACAATATAGGTAGAAATGCATAATCTATAATAACTTACAACTTACACTGT
76660 P	C		S	ATGACGTGGCAGACGCTACAGTATAATAAATGAGCAGTY
76660 P	T		S	CGCGCCGAGGACTACAGTATAATAAATGAGCAGATY
76660 T	C	CAAGATCTGCTCATTTATTATACTGTAGCCAGTGTAAGTTGTAAGTTATTATAGATTATGCATTTCTACCTATATTGTAG ACAGTGCA	S	
76660 T	T	CAAGATCTGCTCATTTATTATACTGTAGTCAGTGTAAGTTGTAAGTTATTATAGATTATGCATTTCTACCTATATTGTAG ACAGTGCA	S	
76660 IS	[CT]	AAGACATTTATCATTCTAATACTTAGCATGCACAAGATCTGCTCATTTATTATACTGTAG[CT]CAGTGTAAGTTGTAAGT TATTATAGATTATGCATTTCTACCTATATTGTAGACAGTGCAT		
76661 I			A	GCACATGCTTTCCTTTCCCCGGTTCCTCTTGT
76661 P	G		A	ATGACGTGGCAGACGCAAGTGCTGTTGTGTY
76661 P	A		A	CGCGCCGAGGACAAGTGCTGTTGTGTCY
76661 T	G		A	CCAGGACACAACAGCACTTGCCAAGAGGAACCGGGGAAAGGAAAGCATGTGCAT
76661 T	A		A	CCAGGACACAACAGCACTTGTCAAGAGGAACCGGGGAAAGGAAAGCATGTGCAT
76661 IS	[GA]	AGGGCCTCCTTCCTTTGATCAGCTCTCATGCACATGCTTTCCTTTCCCCGGTTCCTCTTG[GA]CAAGTGCTGTTGTGT CCTGGGCAGCCTCCTGAGTGAAGGTGAGGAATCTCCCTCCCCTGA		
76673 I			S	TCATGGGAGTTGTAGTTTTCCTTGCGGGCGC
76673 P	A		S	CGCGCCGAGGTAGAGGGCACGAACTCY
76673 P	C		S	ATGACGTGGCAGACGAGAGGGCACGAACTY
76673 T	A		S	CCGGGAGTTCGTGCCCTCTACGCCCGCAAGGAAAACTACAACTCCCATGAGG
76673 T	C		S	CCGGGAGTTCGTGCCCTCTCCGCCCGCAAGGAAAACTACAACTCCCATGAGG
76673 IS	[AC]	GAATGACTCGTACAAAAGAGATGCTATTTATCGGGCAAAAGCCGGGAGTTCGTGCCCTCT[AC]CGCCCGCAAGGAAAA CTACAACTCCCATGAGGACACGGGTGAGATTGAGGCCGGGCTCCG		
76692 I			A	TCCCAGAAGAACTACCCCTGTACTCAAGACAC
76692 P	T		A	CGCGCCGAGGTCTGCGCTTTGAAGAGY
76692 P	G		A	ATGACGTGGCAGACGCTGCGCTTTGAAGAY
76692 T	T		A	TTCGCTCTTCAAAGCGCAGATGTCTTGAGTACAGGGGTAGTTCTTCTGGGATA
76692 T	G		A	TTCGCTCTTCAAAGCGCAGCTGTCTTGAGTACAGGGGTAGTTCTTCTGGGATA
76692 IS	[TG]	*AGATAATGAGATAAATGTTAGATATTATATCCCAGAAGAACTACCCCTGTACTCAAGACA[TG]CTGCGCTTTGAAGAGC* GAAAAACATAAAACACAGTCCCAGAAATAAATACAAGGCTGTTT		
76749 I			A	GCATGACCAAGAAAAGGTAATACTAACCTCATCTATAGCTTTTTTT
76749 P	G		A	ATGACGTGGCAGACGTAGCTCTGAAATGAGAGGY
76749 P	A		A	CGCGCCGAGGATAGCTCTGAAATGAGAGGAY
76749 T	G		A	GGGTTCCTCTCATTTCAGAGCTACAAAAAAGCTATAGATGAGGTTAGTATTACCTTTTCTTGGTCATGCTT
76749 T	A		A	*GGGTTCCTCTCATTTCAGAGCTATAAAAAAGCTATAGATGAGGTTAGTATTACCTTTTCTTGGTCATGCTT*
76749 IS	[GA]	TTACATTTTGTGAAAGCATGACCAAGAAAAGGTAATACTAACCTCATCTATAGCTTTTTT[GA]TAGCTCTGAAATGAGAG GAACCCAATCCAGAAGAATCCACAGAAGGAGGAAAAGCCAGCA		
76761 I			A	GCTCCGGCCCACTGGGGTGAA
76761 P	T		A	CGCGCCGAGGTGGGCTAAAGAGGGGY
76761 P	C		A	ATGACGTGGCAGACCGGGCTAAAGAGGGGY
76761 T	T		A	GAATCCCCTCTTTAGCCCATCACCCCAGTGGGCCGGAGCCC
76761 T	C		A	GAATCCCCTCTTTAGCCCGTCACCCCAGTGGGCCGGAGCCC
76761 IS	[TC]	*CCTGGGGCGAACTCAATCAATGACTCTGACGGGAGACAGGGCTCCGGCCCACTGGGGTGA[TC]GGGCTAAAGAGGG* GATTCTGGTTCCTGTGGACAATCTGGAAGCTGGAAGCTGTTAGAACT		
76777 I			A	GCAAAGGCTCAAGCTGCCTCCTTCCCC
76777 P	T		A	CGCGCCGAGGTCCTCTGCATTGAACGY
76777 P	G		A	ATGACGTGGCAGACGCCTCTGCATTGAACGY
76777 T	T		A	TGGGCGTTCAATGCAGAGGAGGGAAGGAGGCAGCTTGAGCCTTTGCCT
76777 T	G		A	TGGGCGTTCAATGCAGAGGCGGGAAGGAGGCAGCTTGAGCCTTTGCCT
76777 IS	[TG]	CGGGACACAAGCATGGGAGCCCCTAGTTGGTCAGGCAAAGGCTCAAGCTGCCTCCTTCCC[TG]CCTCTGCATTGAAC *GCCCACCTCCTAAGCCTAACCCAGGCAGATGGAGGCAGGTGGCACC*		
76805 I			S	GGAAGACACATTTGCTAGGAGCTGGGTACCTGAAATT
76805 P	G		S	CGCGCCGAGGCAAGGTAAGGAAAGGATGCY
76805 P	C		S	ATGACGTGGCAGACGAAGGTAAGGAAAGGATGCY
76805 T	G		S	CCTGGCATCCTTTCCTTACCTTGATTTCAGGTACCCAGCTCCTAGCAAATGTGTCTTCCTC
76805 T	C		S	CCTGGCATCCTTTCCTTACCTTCATTTCAGGTACCCAGCTCCTAGCAAATGTGTCTTCCTC
76805 IS	[GC]	GTAGGGGAGACGCCCAGAGCGCCATTTGGAGGAGAGAACCTGGCATCCTTTCCTTACCTT[GC]ATTTCAGGTACCCA GCTCCTAGCAAATGTGTCTTCCTCCCAGGGTTCTTTGGGGTAAAGA		
76811 I			A	CATTTTCACGTGGGGTGAAGGGCCAGGA
76811 P	T		A	CGCGCCGAGGTTGCTGTAGGAGAGGATGY
76811 P	C		A	ATGACGTGGCAGACCTGCTGTAGGAGAGGATY
76811 T	T		A	GTCTCATCCTCTCCTACAGCAACCT*GGCCCTTCACCCCACGTGAAAAT*GAC
76811 T	C		A	GTCTCATCCTCTCCTACAGCAGCCTGGCCCTTCACCCCACGTGAAAATGAC
76811 IS	[TC]	ACCTAGGAAACAGCCCCCAAGAATAGGGACCGTCATTTTCACGTGGGGTGAAGGGCCAGG[TC]TGCTGTAGGAGAGG ATGAGACTAGAGCAGGCCCCACTCAGGTGCCCACGCTATGGGGGTA		
76822 I			S	GGTGGTGGTTTTGGAAAAGTACAGAGGGTATTGAGGACT
76822 P	C		S	ATGACGTGGCAGACGTGAGACTGATTCTCTAACAAAY
76822 P	T		S	CGCGCCGAGGATGAGACTGATTCTCTAACAAAGY
76822 T	C		S	TGCTCTTTGTTAGAGAA*TCAGTCTCACGTGCTCAATACCCTCTGTACTTTTC*CAAAACCACCACCAC
76822 T	T		S	TGCTCTTTGTTAGAGAATCAGTCTCATGTCCTCAATACCCTCTGTACTTTTCCAAAACCACCACCAC

FIGURE 129D

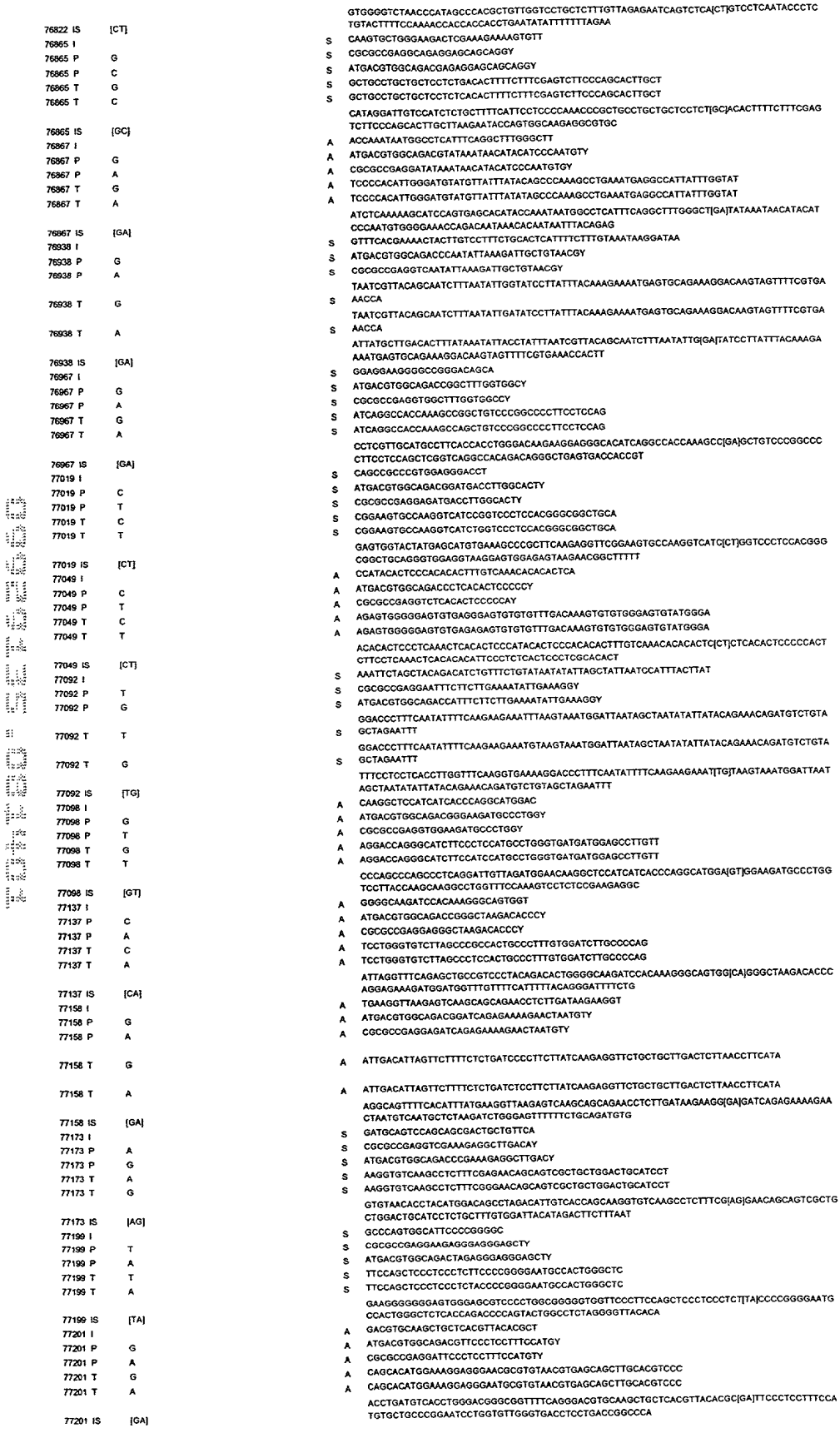

GTGGGGTCTAACCCATAGCCCACGCTGTTGGTCCTGCTCTTTGTTAGAGAATCAGTCTCA[CT]GTCCTCAATACCCTC
TGTACTTTTCCAAAACCACCACCACCTGAATATATTTTTTTAGAA
76822 IS [CT]
76865 I
S CAAGTGCTGGGAAGACTCGAAAGAAAAGTGTT
76865 P G
S CGCGCCGAGGCAGAGGAGCAGCAGGY
76865 P C
S ATGACGTGGCAGACGAGAGGAGCAGCAGGY
76865 T G
S GCTGCCTGCTGCTCCTCTGACACTTTTCTTTCGAGTCTTCCCAGCACTTGCT
76865 T C
S GCTGCCTGCTGCTCCTCTCACACTTTTCTTTCGAGTCTTCCCAGCACTTGCT
CATAGGATTGTCCATCTCTGCTTTTCATTCCTCCCCAAACCCGCTGCCTGCTGCTCCTCT[GC]ACACTTTTCTTTCGAG
TCTTCCCAGCACTTGCTTAAGAATACCAGTGGCAAGAGGCGTGC
76865 IS [GC]
76867 I
A ACCAAATAATGGCCTCATTTCAGGCTTTGGGCTT
76867 P G
A ATGACGTGGCAGACGTATAAATAACATACATCCCAATGTY
76867 P A
A CGCGCCGAGGATATAAATAACATACATCCCAATGTGY
76867 T G
A TCCCCACATTGGGATGTATGTTATTTATACAGCCCAAAGCCTGAAATGAGGCCATTATTTGGTAT
76867 T A
A TCCCCACATTGGGATGTATGTTATTTATATAGCCCAAAGCCTGAAATGAGGCCATTATTTGGTAT
ATCTCAAAAAGCATCCAGTGAGCACATACCAAATAATGGCCTCATTTCAGGCTTTGGGCT[GA]TATAAATAACATACAT
CCCAATGTGGGGAAACCAGACAATAAACACAATAATTTACAGAG
76867 IS [GA]
76938 I
S GTTTCACGAAAACTACTTGTCCTTTCTGCACTCATTTTCTTTGTAAATAAGGATAA
76938 P G
S ATGACGTGGCAGACCCAATATTAAAGATTGCTGTAACGY
76938 P A
S CGCGCCGAGGTCAATATTAAAGATTGCTGTAACGY
TAATCGTTACAGCAATCTTTAATATTGGTATCCTTATTTACAAAGAAAATGAGTGCAGAAAGGACAAGTAGTTTTCGTGA
S AACCA
76938 T G
TAATCGTTACAGCAATCTTTAATATTGATATCCTTATTTACAAAGAAAATGAGTGCAGAAAGGACAAGTAGTTTTCGTGA
S AACCA
76938 T A
ATTATGCTTGACACTTTATAAATATTACCTATTTAATCGTTACAGCAATCTTTAATATTG[GA]TATCCTTATTTACAAAGA
AAATGAGTGCAGAAAGGACAAGTAGTTTTCGTGAAACCACTT
76938 IS [GA]
76967 I
S GGAGGAAGGGGCCGGGACAGCA
76967 P G
S ATGACGTGGCAGACCGGCTTTGGTGGCY
76967 P A
S CGCGCCGAGGTGGCTTTGGTGGCCY
76967 T G
S ATCAGGCCACCAAAGCCGGCTGTCCCGGCCCCTTCCTCCAG
76967 T A
S ATCAGGCCACCAAAGCCAGCTGTCCCGGCCCCTTCCTCCAG
CCTCGTTGCATGCCTTCACCACCTGGGACAAGAAGGAGGGCACATCAGGCCACCAAAGCC[GA]GCTGTCCCGGCCC
CTTCCTCCAGCTCGGTCAGGCCACAGACAGGGCTGAGTGACCACCGT
76967 IS [GA]
77019 I
S CAGCCGCCCGTGGAGGGACCT
77019 P C
S ATGACGTGGCAGACGGATGACCTTGGCACTY
77019 P T
S CGCGCCGAGGAGATGACCTTGGCACTY
77019 T C
S CGGAAGTGCCAAGGTCATCCGGTCCCTCCACGGGCGGCTGCA
77019 T T
S CGGAAGTGCCAAGGTCATCTGGTCCCTCCACGGGCGGCTGCA
GAGTGGTACTATGAGCATGTGAAAGCCCGCTTCAAGAGGTTCGGAAGTGCCAAGGTCATC[CT]GGTCCCTCCACGGG
CGGCTGCAGGGTGGAGGTAAGGAGTGGAGAGTAAGAACGGCTTTTT
77019 IS [CT]
77049 I
A CCATACACTCCCACACACTTTGTCAAACACACACTCA
77049 P C
A ATGACGTGGCAGACCCTCACACTCCCCCY
77049 P T
A CGCGCCGAGGTCTCACACTCCCCCAY
77049 T C
A AGAGTGGGGGAGTGTGAGGGAGTGTGTGTTTGACAAAGTGTGTGGGAGTGTATGGGA
77049 T T
A AGAGTGGGGGAGTGTGAGAGAGTGTGTGTTTGACAAAGTGTGTGGGAGTGTATGGGA
ACACACTCCCTCAAACTCACACTCCCATACACTCCCACACACTTTGTCAAACACACACTC[CT]CTCACACTCCCCCACT
CTTCCTCAAACTCACACACATTCCCTCTCACTCCCTCGCACACT
77049 IS [CT]
77092 I
S AAATTCTAGCTACAGACATCTGTTTCTGTATAATATATTAGCTATTAATCCATTTACTTAT
77092 P T
S CGCGCCGAGGAATTTCTTCTTGAAAATATTGAAAGGY
77092 P G
S ATGACGTGGCAGACCATTTCTTCTTGAAAATATTGAAAGGY
GGACCCTTTCAATATTTTCAAGAAGAAATTTAAGTAAATGGATTAATAGCTAATATATTATACAGAAACAGATGTCTGTA
S GCTAGAATTT
77092 T T
GGACCCTTTCAATATTTTCAAGAAGAAATGTAAGTAAATGGATTAATAGCTAATATATTATACAGAAACAGATGTCTGTA
S GCTAGAATTT
77092 T G
TTTCCTCCTCACCTTGGTTTCAAGGTGAAAAGGACCCTTTCAATATTTTCAAGAAGAAAT[TG]TAAGTAAATGGATTAAT
AGCTAATATATTATACAGAAACAGATGTCTGTAGCTAGAATTT
77092 IS [TG]
77098 I
A CAAGGCTCCATCATCACCCAGGCATGGAC
77098 P G
A ATGACGTGGCAGACGGGAAGATGCCCTGGY
77098 P T
A CGCGCCGAGGTGGAAGATGCCCTGGY
77098 T G
A AGGACCAGGGCATCTTCCCTCCATGCCTGGGTGATGATGGAGCCTTGTT
77098 T T
A AGGACCAGGGCATCTTCCATCCATGCCTGGGTGATGATGGAGCCTTGTT
CCCAGCCCAGCCCTCAGGATTGTTAGATGGAACAAGGCTCCATCATCACCCAGGCATGGA[GT]GGAAGATGCCCTGG
TCCTTACCAAGCAAGGCCTGGTTTCCAAAGTCCTCTCCGAAGAGGC
77098 IS [GT]
77137 I
A GGGGCAAGATCCACAAAGGGCAGTGGT
77137 P C
A ATGACGTGGCAGACCGGGCTAAGACACCCY
77137 P A
A CGCGCCGAGGAGGGCTAAGACACCCY
77137 T C
A TCCTGGGTGTCTTAGCCCGCCACTGCCCTTTGTGGATCTTGCCCCAG
77137 T A
A TCCTGGGTGTCTTAGCCCTCCACTGCCCTTTGTGGATCTTGCCCCAG
ATTAGGTTTCAGAGCTGCCGTCCCTACAGACACTGGGGCAAGATCCACAAAGGGCAGTGG[CA]GGGCTAAGACACCC
AGGAGAAAGATGGATGGTTTGTTTTCATTTTTACAGGGATTTTCTG
77137 IS [CA]
77158 I
A TGAAGGTTAAGAGTCAAGCAGCAGAACCTCTTGATAAGAAGGT
77158 P G
A ATGACGTGGCAGACGGATCAGAGAAAAGAACTAATGTY
77158 P A
A CGCGCCGAGGAGATCAGAGAAAAGAACTAATGTY
77158 T G
A ATTGACATTAGTTCTTTTCTCTGATCCCCTTCTTATCAAGAGGTTCTGCTGCTTGACTCTTAACCTTCATA
77158 T A
A ATTGACATTAGTTCTTTTCTCTGATCTCCTTCTTATCAAGAGGTTCTGCTGCTTGACTCTTAACCTTCATA
AGGCAGTTTTCACATTTATGAAGGTTAAGAGTCAAGCAGCAGAACCTCTTGATAAGAAGG[GA]GATCAGAGAAAAGAA
CTAATGTCAATGCTCTAAGATCTGGGAGTTTTTTCTGCAGATGTG
77158 IS [GA]
77173 I
S GATGCAGTCCAGCAGCGACTGCTGTTCA
77173 P A
S CGCGCCGAGGTCGAAAGAGGCTTGACAY
77173 P G
S ATGACGTGGCAGACCCGAAAGAGGCTTGACY
77173 T A
S AAGGTGTCAAGCCTCTTTCGAGAACAGCAGTCGCTGCTGGACTGCATCCT
77173 T G
S AAGGTGTCAAGCCTCTTTCGGGAACAGCAGTCGCTGCTGGACTGCATCCT
GTGTAACACCTACATGGACAGCCTAGACATTGTCACCAGCAAGGTGTCAAGCCTCTTTCG[AG]GAACAGCAGTCGCTG
CTGGACTGCATCCTCTGCTTTGTGGATTACATAGACTTCTTTAAT
77173 IS [AG]
77199 I
S GCCCAGTGGCATTCCCCGGGGC
77199 P T
S CGCGCCGAGGAAGAGGGAGGGAGCTY
77199 P A
S ATGACGTGGCAGACTAGAGGGAGGGAGCTY
77199 T T
S TTCCAGCTCCCTCCCTCTTCCCCGGGGAATGCCACTGGGCTC
77199 T A
S TTCCAGCTCCCTCCCTCTACCCCGGGGAATGCCACTGGGCTC
GAAGGGGGGGAGTGGGAGCGTCCCCTGGCGGGGGTGGTTCCCTTCCAGCTCCCTCCCTCTTA[CCCCGGGGAATG
CCACTGGGCTCTCACCAGACCCCAGTACTGGCCTCTAGGGGTTACACA
77199 IS [TA]
77201 I
A GACGTGCAAGCTGCTCACGTTACACGCT
77201 P G
A ATGACGTGGCAGACGTTCCCTCCTTTCCATGY
77201 P A
A CGCGCCGAGGATTCCCTCCTTTCCATGTY
77201 T G
A CAGCACATGGAAAGGAGGGAACGCGTGTAACGTGAGCAGCTTGCACGTCCC
77201 T A
A CAGCACATGGAAAGGAGGGAATGCGTGTAACGTGAGCAGCTTGCACGTCCC
ACCTGATGTCACCTGGGACGGGCGGTTTTCAGGGACGTGCAAGCTGCTCACGTTACACGC[GA]TTCCCTCCTTTCCA
TGTGCTGCCCGGAATCCTGGTGTTGGGTGACCTCCTGACCGGCCCA
77201 IS [GA]

FIGURE 129D

77205 I		S	CTTGGATGTCCACCTCCAAGGGTGTGTCTTCT
77205 P	T	S	CGCGCCGAGGATCAAGCGTTGCCTCTY
77205 P	C	S	ATGACGTGGCAGACGTCAAGCGTTGCCTCY
77205 T	T	S	GAAGAGAGGCAACGCTTGATGAAGACACACCCTTGGAGGTGGACATCCAAGCC
77205 T	C	S	GAAGAGAGGCAACGCTTGACGAAGACACACCCTTGGAGGTGGACATCCAAGCC
			CCCTTCTTCTCCCCAACAGGAAGCTTGGGAGCTTTGTGAAGGAAGAGAGGCAACGCTTGA[TC]GAAGACACACCCTT GGAGGTGGACATCCAAGCCAGCCTCTCAGCCAAACTGTCTCAACTC
77205 IS	[TC]		
77251 I		A	GGCCAGGTGGGCAGCGGTTGTT
77251 P	G	A	ATGACGTGGCAGACGAGACCCTTCCCCACY
77251 P	A	A	CGCGCCGAGGAAGACCCTTCCCCACY
77251 T	G	A	GGCAGTGGGGAAGGGTCTCACAACCGCTGCCCACCTGGCCAG
77251 T	A	A	GGCAGTGGGGAAGGGTCTTACAACCGCTGCCCACCTGGCCAG
			CAAGCTGCGGGAGGCAGCTGCCCTGAGGCACCACAGTCTGGCCAGGTGGGCAGCGGTTGT[GA]AGACCCTTCCCCA CTGCCAGTGCACCCCCCTCTTCGGCACCCCCCTTCAACCGTTCCTGG
77251 IS	[GA]		
77268 I		S	CAAGGTTTAGAATCTGGATATAAGGACCCTTATATAATGCAATGATTTAACT
77268 P	T	S	CGCGCCGAGGATATTTATTGTCTATCACATGCCY
77268 P	C	S	ATGACGTGGCAGACGTATTTATTGTCTATCACATGCCY
77268 T	T	S	TCCTGGCATGTGATAGACAATAAATATGTTAAATCATTGCATTATATAAGGGTCCTTATATCCAGATTCTAAACCTTGAC
77268 T	C	S	TCCTGGCATGTGATAGACAATAAATACGTTAAATCATTGCATTATATAAGGGTCCTTATATCCAGATTCTAAACCTTGAC
			AGAGCAAGAATATTTTTATTGTACCTAAAACAATTCCTGGCATGTGATAGACAATAAATA[TC]GTTAAATCATTGCATTA TATAAGGGTCCTTATATCCAGATTCTAAACGTTGACTCAACAC
77268 IS	[TC]		
77343 I		A	ACAGCTGATTTGGATAAGGGTCAACTGATACCCACAAAGATTAAT
77343 P	C	A	ATGACGTGGCAGACCACCACAATTTACTATTGTGTTAY
77343 P	A	A	CGCGCCGAGGAACCACAATTTACTATTGTGTTAGY
77343 T	C	A	TGTACTAACACAATAGTAAATTGTGGTGTTAATCTTTGTGGGTATCAGTTGACCCTTATCCAAATCAGCTGTTA
77343 T	A	A	TGTACTAACACAATAGTAAATTGTGGTTTTAATCTTTGTGGGTATCAGTTGACCCTTATCCAAATCAGCTGTTA
			GGCACATATTTATGTAACAGCTGATTTGGATAAGGGTCAACTGATACCCACAAAGATTAA[CA]ACCACAATTTACTATTG TGTTAGTACAGTGTTGAAACCAAATAAAATAACCAGGAGTAAA
77343 IS	[CA]		
77357 I		S	GGGGGAGGCCCTCATTCCCCCT
77357 P	C	S	ATGACGTGGCAGACGTGGGACCGCATGTY
77357 P	T	S	CGCGCCGAGGATGGGACCGCATGTY
77357 T	C	S	GGCCACATGCGGTCCCACGGGGGAATGAGGGCCTCCCCCAA
77357 T	T	S	GGCCACATGCGGTCCCATGGGGGAATGAGGGCCTCCCCCAA
			CTCCATCTGCCTGAAGGAGTTCAAGAACCTGCCTGCCCTGAATGGCCACATGCGGTCCCA[CT]GGGGGAATGAGGGC CTCCCCCAACCTCAAACAGGTTAGCAGGAGCCAGTTCCCGGTCCTT
77357 IS	[CT]		
77414 I		S	ACCCCCCACCCTTGAGTCCCCCT
77414 P	C	S	ATGACGTGGCAGACGGGACAGCTCACAGAY
77414 P	T	S	CGCGCCGAGGAGGACAGCTCACAGAGY
77414 T	C	S	GTTGCTCTGTGAGCTGTCCCGGGGGACTCAAGGGTGGGGGGTAT
77414 T	T	S	GTTGCTCTGTGAGCTGTCCTGGGGGACTCAAGGGTGGGGGGTAT
			ACCTACGGTGTCACCAGAGAGCAGGAAACCATGGTCTGCCTGTTGCTCTGTGAGCTGTCC[CT]GGGGGACTCAAGGG TGGGGGGTATTCTGCTGCCCTCTGTCCCTTCCTCTGGGATGTCTGA
77414 IS	[CT]		
77438 I		A	CATACTTTGTTGAATAATTTTGGGTTTTTTCACCAATACATTATTTCAATTCATTACT
77438 P	A	A	CGCGCCGAGGATTAGGAGATTTGTTAAATTATATAAAGAAAAY
77438 P	G	A	ATGACGTGGCAGACGTTAGGAGATTTGTTAAATTATATAAAGAAAY
			TATCTTTTCTTTATATAATTTAACAAATCTCCTAATGTAATGAATTGAAATAATGTATTGGTGAAAAAACCCAAAATTATT
77438 T	A	A	CAACAAAGTATGCT
			TATCTTTTCTTTATATAATTTAACAAATCTCCTAACGTAATGAATTGAAATAATGTATTGGTGAAAAAACCCAAAATTATT
77438 T	G	A	CAACAAAGTATGCT
			AAGCATACTTTGTTGAATAATTTTGGGTTTTTTCACCAATACATTATTTCAATTCATTAC[AG]TTAGGAGATTTGTTAAAT TATATAAAGAAAAGATAATATCAATTCTATAATAAATAATAG
77438 IS	[AG]		
77440 I		S	TCTAAAGCTTCTTACCTTTTTCGGTATTTCCACAGTGGAGTAAACCT
77440 P	C	S	ATGACGTGGCAGACGTATTTGCTGGATCTTCCTTY
77440 P	T	S	CGCGCCGAGGATATTTGCTGGATCTTCCTTTY
77440 T	C	S	TCCTAAAGGAAGATCCAGCAAATACGGTTTACTCCACTGTGGAAATACCGAAAAAGGTAAGAAGCTTTAGAGC
77440 T	T	S	TCCTAAAGGAAGATCCAGCAAATATGGTTTACTCCACTGTGGAAATACCGAAAAAGGTAAGAAGCTTTAGAGC
			TTCTTTTGTTTGTTTGTTTTAAAAGAGAACAATCCTAAAGGAAGATCCAGCAAATA[CT]GGTTTACTCCACTGTGG AAATACCGAAAAAGGTAAGAAGCTTTAGAGCTTAACTTCGTCT
77440 IS	[CT]		
77461 I		S	CACCGCTGGAGCAGAATGAAACTTCACTTGCTA
77461 P	A	S	CGCGCCGAGGTCTTCCTTCCTTTTTAAAAATAAACAY
77461 P	G	S	ATGACGTGGCAGACCCTTCCTTCCTTTTTAAAAATAAACY
77461 T	A	S	ATAATGTTTATTTTTAAAAAGGAAGGAAGAAGCAAGTGAAGTTTCATTCTGCTCCAGCGGTGGG
77461 T	G	S	ATAATGTTTATTTTTAAAAAGGAAGGAAGGAGCAAGTGAAGTTTCATTCTGCTCCAGCGGTGGG
			ATCTGGTTATGTCTTATTTTTTTCCTAAAAGATAATGTTTATTTTTAAAAAGGAAGGAAG[AG]AGCAAGTGAAGTTTCAT TCTGCTCCAGCGGTGGGGAAGCCGCTGAATCCACCTGCTTCTC
77461 IS	[AG]		
77471 I		A	CATTCATGAGTTTAACCATTCTTGTTACAAATTAATATTACAGTTCCATATACAAACAAAA
77471 P	T	A	CGCGCCGAGGTATTCACTCTCTAACGAAGAATAAAY
77471 P	C	A	ATGACGTGGCAGACCATTCACTCTCTAACGAAGAAY
			ATTATTTATTCTTCGTTAGAGAGTGAATATTTGTTTGTATATGGAACTGTAATATTAATTTGTAACAAGAATGGTTAAACT
77471 T	T	A	CATGAATG
			ATTATTTATTCTTCGTTAGAGAGTGAATGTTTGTTTGTATATGGAACTGTAATATTAATTTGTAACAAGAATGGTTAAAC
77471 T	C	A	TCATGAATG
			CATTCATGAGTTTAACCATTCTTGTTACAAATTAATATTACAGTTCCATATACAAACAAA[TC]ATTCACTCTCTAACGAAG AATAAATAATTTATTGGTTTACCTTTGTCCATGATCTTTGAT
77471 IS	[TC]		
77497 I		A	TCTCCTTCATCACAGACTGGCCCTCCCTGA
77497 P	C	A	ATGACGTGGCAGACCACCCCAGACACTTGGY
77497 P	T	A	CGCGCCGAGGTACCCCAGACACTTGGY
77497 T	C	A	TTCACCAAGTGTCTGGGGTGCAGGGAGGGCCAGTCTGTGATGAAGGAGAAG
77497 T	T	A	TTCACCAAGTGTCTGGGGTACAGGGAGGGCCAGTCTGTGATGAAGGAGAAG
			CCCAGAAAGTCTTCCCTGAGGGGTTCTTTCTTCTCCTTCATCACAGACTGGCCCTCCCTG[CT]ACCCCAGACACTTGG TGAAAGGTGGCCATGACTTCTATCTCCGGGGCTTGGAGCTCTGCT
77497 IS	[CT]		
77547 I		S	CCCAGCCTGCATTATTCTTTCTTTTCTATTTCTGAAAATAATTTTACCT
77547 P	C	S	ATGACGTGGCAGACGGTTAAAAGCATTTTCAGGTTY
77547 P	T	S	CGCGCCGAGGAGTTAAAAGCATTTTCAGGTTCY
77547 T	C	S	CTAAGAACCTGAAAATGCTTTTAACCGGTAAAATTATTTTCAGAAATAGAAAAGAAAGAATAATGCAGGCTGGGAA
77547 T	T	S	CTAAGAACCTGAAAATGCTTTTAACTGGTAAAATTATTTTCAGAAATAGAAAAGAAAGAATAATGCAGGCTGGGAA
			ACTGTGTTACAACGTTAACTTTGTAACAGTTTTTCCTAAGAACCTGAAAATGCTTTTAAC[CT]GGTAAAATTATTTTCAG AAATAGAAAAGAAAGAATAATGCAGGCTGGGAAGAAACATGCT
77547 IS	[CT]		
77580 I		S	CAAGAGCTTCTTTAAGGGCCTCGTGGAAGCCT
77580 P	C	S	ATGACGTGGCAGACGTGGAGAGTACATTACAGACY
77580 P	T	S	CGCGCCGAGGATGGAGAGTACATTACAGACY

FIGURE 129D

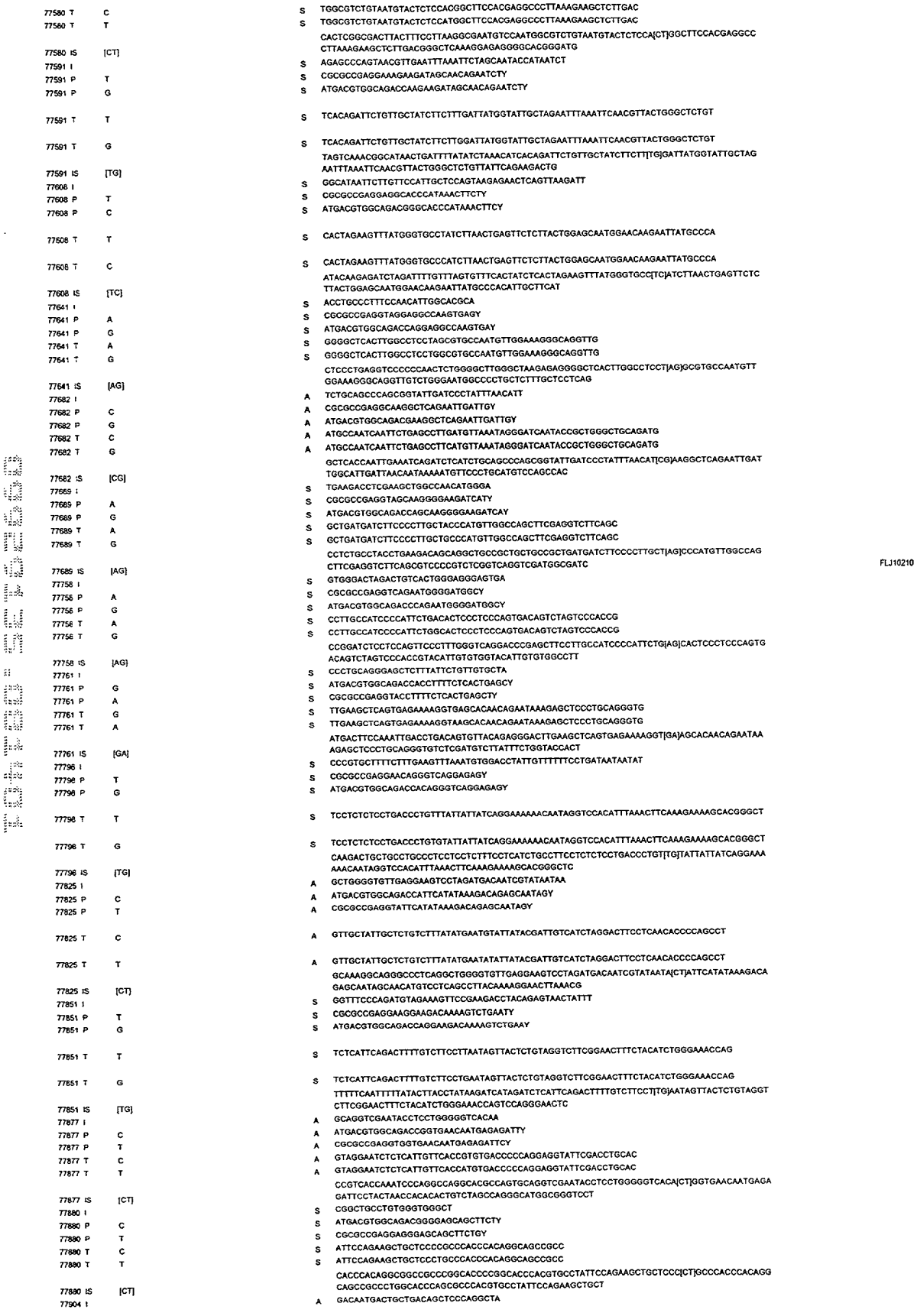

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77580 T T S TGGCGTCTGTAATGTACTCTCCATGGCTTCCACGAGGCCCTTAAAGAAGCTCTTGAC
CACTCGGCGACTTACTTTCCTTAAGGCGAATGTCCAATGGCGTCTGTAATGTACTCTCCA[CT]GGCTTCCACGAGGCC
77580 IS [CT] CTTAAAGAAGCTCTTGACGGGCTCAAAGGAGAGGGGCACGGGATG
77591 I S AGAGCCCAGTAACGTTGAATTTAAATTCTAGCAATACCATAATCT
77591 P T S CGCGCCGAGGAAAGAAGATAGCAACAGAATCTY
77591 P G S ATGACGTGGCAGACCAAGAAGATAGCAACAGAATCTY
77591 T T S TCACAGATTCTGTTGCTATCTTCTTTGATTATGGTATTGCTAGAATTTAAATTCAACGTTACTGGGCTCTGT
77591 T G S TCACAGATTCTGTTGCTATCTTCTTGGATTATGGTATTGCTAGAATTTAAATTCAACGTTACTGGGCTCTGT
TAGTCAAACGGCATAACTGATTTTATATCTAAACATCACAGATTCTGTTGCTATCTTCTT[TG]GATTATGGTATTGCTAG
77591 IS [TG] AATTTAAATTCAACGTTACTGGGCTCTGTTATTCAGAAGACTG
77608 I S GGCATAATTCTTGTTCCATTGCTCCAGTAAGAGAACTCAGTTAAGATT
77608 P T S CGCGCCGAGGAGGCACCCATAAACTTCTY
77608 P C S ATGACGTGGCAGACGGGCACCCATAAACTTCY
77608 T T S CACTAGAAGTTTATGGGTGCCTATCTTAACTGAGTTCTCTTACTGGAGCAATGGAACAAGAATTATGCCCA
77608 T C S CACTAGAAGTTTATGGGTGCCCATCTTAACTGAGTTCTCTTACTGGAGCAATGGAACAAGAATTATGCCCA
ATACAAGAGATCTAGATTTTGTTTAGTGTTTCACTATCTCACTAGAAGTTTATGGGTGCC[TC]ATCTTAACTGAGTTCTC
77608 IS [TC] TTACTGGAGCAATGGAACAAGAATTATGCCCACATTGCTTCAT
77641 I S ACCTGCCCTTTCCAACATTGGCACGCA
77641 P A S CGCGCCGAGGTAGGAGGCCAAGTGAGY
77641 P G S ATGACGTGGCAGACCAGGAGGCCAAGTGAY
77641 T A S GGGGCTCACTTGGCCTCCTAGCGTGCCAATGTTGGAAAGGGCAGGTTG
77641 T G S GGGGCTCACTTGGCCTCCTGGCGTGCCAATGTTGGAAAGGGCAGGTTG
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77641 IS [AG] GGAAAGGGCAGGTTGTCTGGGAATGGCCCCTGCTCTTTGCTCCTCAG
77682 I A TCTGCAGCCCAGCGGTATTGATCCCTATTTAACATT
77682 P C A CGCGCCGAGGCAAGGCTCAGAATTGATTGY
77682 P G A ATGACGTGGCAGACGAAGGCTCAGAATTGATTGY
77682 T C A ATGCCAATCAATTCTGAGCCTTGATGTTAAATAGGGATCAATACCGCTGGGCTGCAGATG
77682 T G A ATGCCAATCAATTCTGAGCCTTCATGTTAAATAGGGATCAATACCGCTGGGCTGCAGATG
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77682 IS [CG] TGGCATTGATTAACAATAAAAATGTTCCCTGCATGTCCAGCCAC
77689 I S TGAAGACCTCGAAGCTGGCCAACATGGGA
77689 P A S CGCGCCGAGGTAGCAAGGGGAAGATCATY
77689 P G S ATGACGTGGCAGACCAGCAAGGGGAAGATCAY
77689 T A S GCTGATGATCTTCCCCTTGCTACCCATGTTGGCCAGCTTCGAGGTCTTCAGC
77689 T G S GCTGATGATCTTCCCCTTGCTGCCCATGTTGGCCAGCTTCGAGGTCTTCAGC
CCTCTGCCTACCTGAAGACAGCAGGCTGCCGCTGCTGCCGCTGATGATCTTCCCCTTGCT[AG]CCCATGTTGGCCAG
77689 IS [AG] CTTCGAGGTCTTCAGCGTCCCCGTCTCGGTCAGGTCGATGGCGATC FLJ10210
77758 I S GTGGGACTAGACTGTCACTGGGAGGGAGTGA
77758 P A S CGCGCCGAGGTCAGAATGGGGATGGCY
77758 P G S ATGACGTGGCAGACCCAGAATGGGGATGGCY
77758 T A S CCTTGCCATCCCCATTCTGACACTCCCTCCCAGTGACAGTCTAGTCCCACCG
77758 T G S CCTTGCCATCCCCATTCTGGCACTCCCTCCCAGTGACAGTCTAGTCCCACCG
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77758 IS [AG] ACAGTCTAGTCCCACCGTACATTGTGTGGTACATTGTGTGGCCTT
77761 I S CCCTGCAGGGAGCTCTTTATTCTGTTGTGCTA
77761 P G S ATGACGTGGCAGACCACCTTTTCTCACTGAGCY
77761 P A S CGCGCCGAGGTACCTTTTCTCACTGAGCTY
77761 T G S TTGAAGCTCAGTGAGAAAAGGTGAGCACAACAGAATAAAGAGCTCCCTGCAGGGTG
77761 T A S TTGAAGCTCAGTGAGAAAAGGTAAGCACAACAGAATAAAGAGCTCCCTGCAGGGTG
ATGACTTCCAAATTGACCTGACAGTGTTACAGAGGGACTTGAAGCTCAGTGAGAAAAGGT[GA]AGCACAACAGAATAA
77761 IS [GA] AGAGCTCCCTGCAGGGTGTCTCGATGTCTTATTTCTGGTACCACT
77796 I S CCCGTGCTTTTCTTTGAAGTTTAAATGTGGACCTATTGTTTTTTCCTGATAATAATAT
77796 P T S CGCGCCGAGGAACAGGGTCAGGAGAGY
77796 P G S ATGACGTGGCAGACCACAGGGTCAGGAGAGY
77796 T T S TCCTCTCTCCTGACCCTGTTTATTATTATCAGGAAAAAACAATAGGTCCACATTTAAACTTCAAAGAAAAGCACGGGCT
77796 T G S TCCTCTCTCCTGACCCTGTGTATTATTATCAGGAAAAAACAATAGGTCCACATTTAAACTTCAAAGAAAAGCACGGGCT
CAAGACTGCTGCCTGCCCTCCTCCTCTTTCCTCATCTGCCTTCCTCTCTCCTGACCCTGT[TG]TATTATTATCAGGAAA
77796 IS [TG] AAACAATAGGTCCACATTTAAACTTCAAAGAAAAGCACGGGCTC
77825 I A GCTGGGGTGTTGAGGAAGTCCTAGATGACAATCGTATAATAA
77825 P C A ATGACGTGGCAGACCATTCATATAAAGACAGAGCAATAGY
77825 P T A CGCGCCGAGGTATTCATATAAAGACAGAGCAATAGY
77825 T C A GTTGCTATTGCTCTGTCTTTATATGAATGTATTATACGATTGTCATCTAGGACTTCCTCAACACCCCAGCCT
77825 T T A GTTGCTATTGCTCTGTCTTTATATGAATATATTATACGATTGTCATCTAGGACTTCCTCAACACCCCAGCCT
GCAAAGGCAGGGCCCTCAGGCTGGGGTGTTGAGGAAGTCCTAGATGACAATCGTATAATA[CT]ATTCATATAAAGACA
77825 IS [CT] GAGCAATAGCAACATGTCCTCAGCCTTACAAAAGGAACTTAAACG
77851 I S GGTTTCCCAGATGTAGAAAGTTCCGAAGACCTACAGAGTAACTATTT
77851 P T S CGCGCCGAGGAAGGAAGACAAAAGTCTGAATY
77851 P G S ATGACGTGGCAGACCAGGAAGACAAAAGTCTGAAY
77851 T T S TCTCATTCAGACTTTTGTCTTCCTTAATAGTTACTCTGTAGGTCTTCGGAACTTTCTACATCTGGGAAACCAG
77851 T G S TCTCATTCAGACTTTTGTCTTCCTGAATAGTTACTCTGTAGGTCTTCGGAACTTTCTACATCTGGGAAACCAG
TTTTTCAATTTTTATACTTACCTATAAGATCATAGATCTCATTCAGACTTTTGTCTTCCT[TG]AATAGTTACTCTGTAGGT
77851 IS [TG] CTTCGGAACTTTCTACATCTGGGAAACCAGTCCAGGGAACTC
77877 I A GCAGGTCGAATACCTCCTGGGGGTCACAA
77877 P C A ATGACGTGGCAGACCGGTGAACAATGAGAGATTY
77877 P T A CGCGCCGAGGTGGTGAACAATGAGAGATTCY
77877 T C A GTAGGAATCTCTCATTGTTCACCGTGTGACCCCCAGGAGGTATTCGACCTGCAC
77877 T T A GTAGGAATCTCTCATTGTTCACCATGTGACCCCCAGGAGGTATTCGACCTGCAC
CCGTCACCAAATCCCAGGCCAGGCACGCCAGTGCAGGTCGAATACCTCCTGGGGGTCACA[CT]GGTGAACAATGAGA
77877 IS [CT] GATTCCTACTAACCACACACTGTCTAGCCAGGGCATGGCGGGTCCT
77880 I S CGGCTGCCTGTGGGTGGGCT
77880 P C S ATGACGTGGCAGACGGGGAGCAGCTTCTY
77880 P T S CGCGCCGAGGAGGGAGCAGCTTCTGY
77880 T C S ATTCCAGAAGCTGCTCCCCGCCCACCCACAGGCAGCCGCC
77880 T T S ATTCCAGAAGCTGCTCCCTGCCCACCCACAGGCAGCCGCC
CACCCACAGGCGGCCGCCCGGCACCCCGGCACCCACGTGCCTATTCCAGAAGCTGCTCCC[CT]GCCCACCCACAGG
77880 IS [CT] CAGCCGCCCTGGCACCCAGCGCCCACGTGCCTATTCCAGAAGCTGCT
77904 I A GACAATGACTGCTGACAGCTCCCAGGCTA

FIGURE 129D

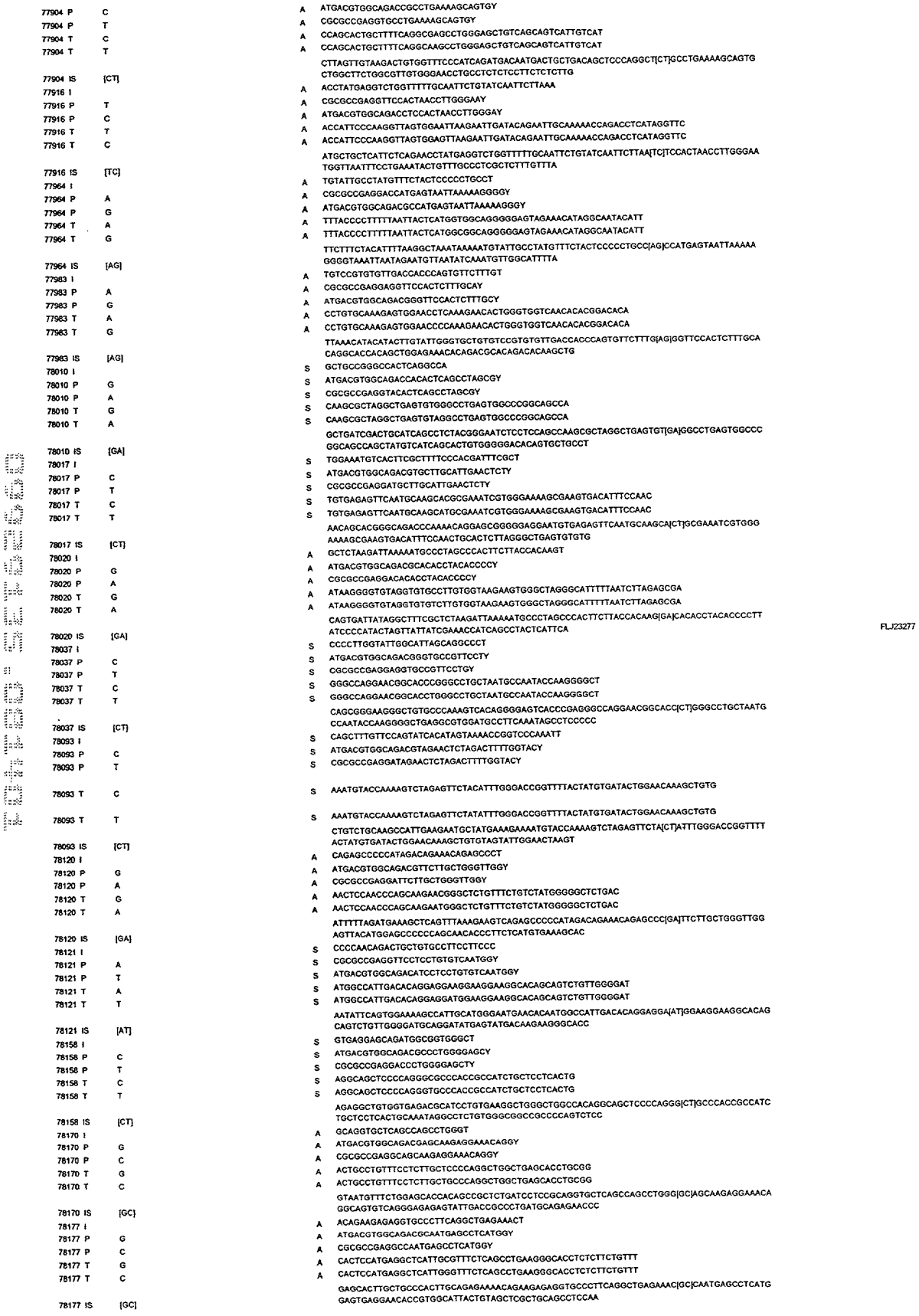

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77904 P T
77904 T C
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S ATGACGTGGCAGACGTGCTTGCATTGAACTCTY
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FLJ23277

FIGURE 129D

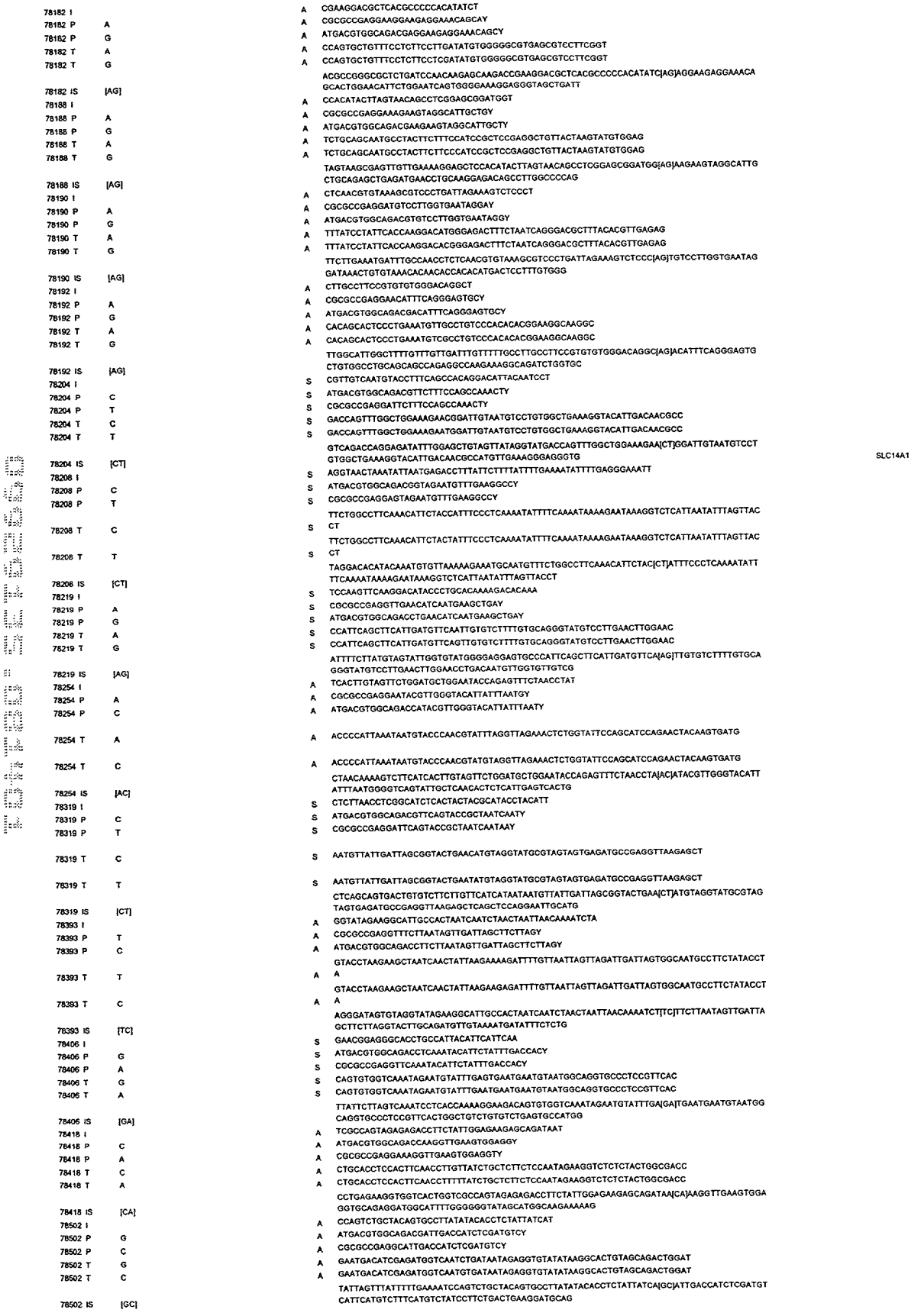

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78188 T G
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78190 P A
78190 P G
78190 T A
78190 T G
78190 IS [AG]
78192 I
78192 P A
78192 P G
78192 T A
78192 T G
78192 IS [AG]
78204 I
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78204 P T
78204 T C
78204 T T
78204 IS [CT]
78208 I
78208 P C
78208 P T
78208 T C
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78219 P G
78219 T A
78219 T G
78219 IS [AG]
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78254 P C
78254 T A
78254 T C
78254 IS [AC]
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78319 T T
78319 IS [CT]
78393 I
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78393 P C
78393 T T
78393 T C
78393 IS [TC]
78406 I
78406 P G
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78406 T G
78406 T A
78406 IS [GA]
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78418 P A
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78418 T A
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78502 T G
78502 T C
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A CCAGTGCTGTTTCCTCTTCCTCGATATGTGGGGGCGTGAGCGTCCTTCGGT
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A CGCGCCGAGGAAAGAAGTAGGCATTGCTGY
A ATGACGTGGCAGACGAAGAAGTAGGCATTGCTY
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A ATGACGTGGCAGACGTGTCCTTGGTGAATAGGY
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SLC14A1

FIGURE 129D

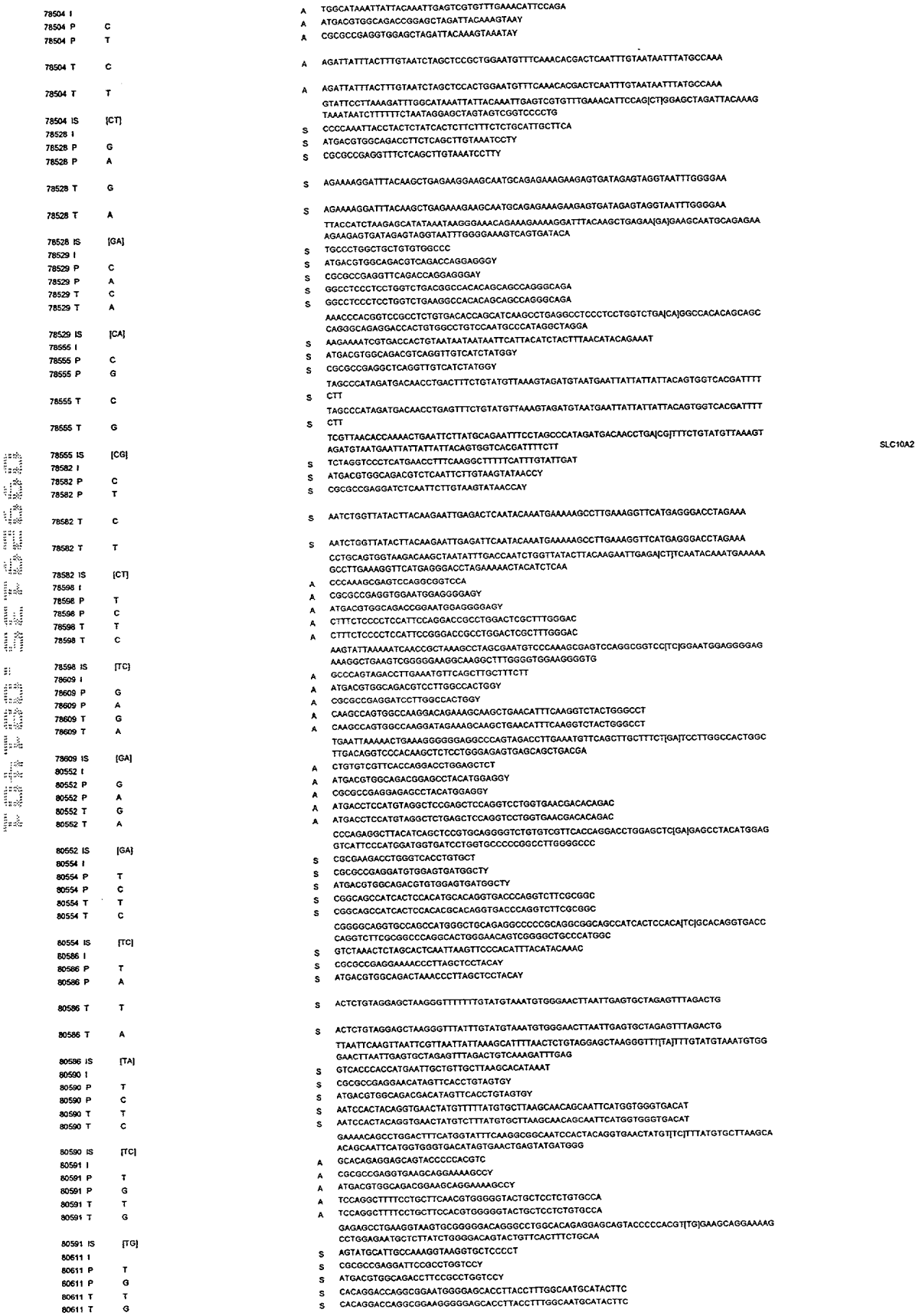

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SLC10A2

FIGURE 129D

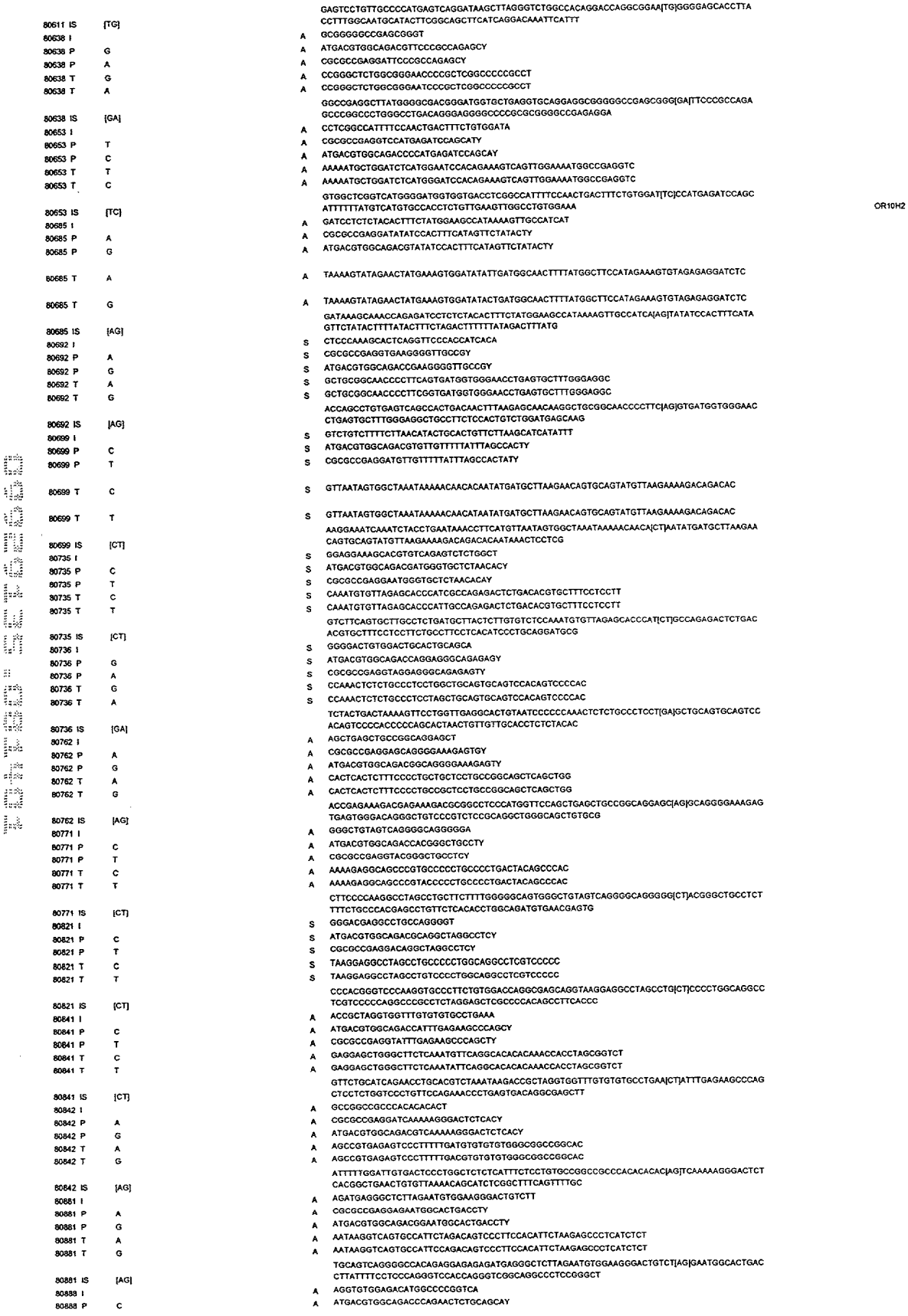

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80762 T G A CACTCACTCTTTCCCCTGCCGCTCCTGCCGGCAGCTCAGCTGG
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TCGTCCCCCAGGCCCGCCTCTAGGAGCTCGCCCCACAGCCTTCACCC
80821 IS [CT]
80841 I A ACCGCTAGGTGGTTTGTGTGTGCCTGAAA
80841 P C A ATGACGTGGCAGACCATTTGAGAAGCCCAGCY
80841 P T A CGCGCCGAGGTATTTGAGAAGCCCAGCTY
80841 T C A GAGGAGCTGGGCTTCTCAAATGTTCAGGCACACACAAACCACCTAGCGGTCT
80841 T T A GAGGAGCTGGGCTTCTCAAATATTCAGGCACACACAAACCACCTAGCGGTCT
GTTCTGCATCAGAACCTGCACGTCTAAATAAGACCGCTAGGTGGTTTGTGTGTGCCTGAA[CT]ATTTGAGAAGCCCAG
CTCCTCTGGTCCCTGTTCCAGAAACCCTGAGTGACAGGCGAGCTT
80841 IS [CT]
80842 I A GCCGGCCGCCCACACACACT
80842 P A A CGCGCCGAGGATCAAAAAGGGACTCTCACY
80842 P G A ATGACGTGGCAGACGTCAAAAAGGGACTCTCACY
80842 T A A AGCCGTGAGAGTCCCTTTTTGATGTGTGTGTGGGCGGCCGGCAC
80842 T G A AGCCGTGAGAGTCCCTTTTTGACGTGTGTGTGGGCGGCCGGCAC
ATTTTTGGATTGTGACTCCCTGGCTCTCTCATTTCTCCTGTGCCGGCCGCCCACACACAC[AG]TCAAAAAGGGACTCT
CACGGCTGAACTGTGTTAAAACAGCATCTCGGCTTTCAGTTTTGC
80842 IS [AG]
80881 I A AGATGAGGGCTCTTAGAATGTGGAAGGGACTGTCTT
80881 P A A CGCGCCGAGGAGAATGGCACTGACCTY
80881 P G A ATGACGTGGCAGACGGAATGGCACTGACCTY
80881 T A A AATAAGGTCAGTGCCATTCTAGACAGTCCCTTCCACATTCTAAGAGCCCTCATCTCT
80881 T G A AATAAGGTCAGTGCCATTCCAGACAGTCCCTTCCACATTCTAAGAGCCCTCATCTCT
TGCAGTCAGGGGCCACAGAGGAGAGAGATGAGGGCTCTTAGAATGTGGAAGGGACTGTCT[AG]GAATGGCACTGAC
CTTATTTTCCTCCCAGGGTCCACCAGGGTCGGCAGGCCCTCCGGGCT
80881 IS [AG]
80888 I A AGGTGTGGAGACATGGCCCCGGTCA
80888 P C A ATGACGTGGCAGACCCAGAACTCTGCAGCAY
OR10H2

FIGURE 129D

80868 P	T	A	CGCGCCGAGGTCAGAACTCTGCAGCAY	
80888 T	C	A	TGTCTGCTGCAGAGTTCTGGGACCGGGGCCATGTCTCCACACCTCA	
80888 T	T	A	TGTCTGCTGCAGAGTTCTGAGACCGGGGCCATGTCTCCACACCTCA	
			TCCCTCCAGGACTCACCTAGGCCCAGGAGAGCAGTGAGGTGTGGAGACATGGCCCCGGTC[CT]CAGAACTCTGCAG	
80888 IS	[CT]		CAGACACAAGCAGACAGGATGTGCTGGCCGGGGGGCCTCCTGCCCGTG	
80889 I		S	GCAGGAGGCCCCCGGCCAGA	
80889 P	G	S	ATGACGTGGCAGACCACATCCTGTCTGCTTGY	
80889 P	A	S	CGCGCCGAGGTACATCCTGTCTGCTTGTY	
80889 T	G	S	AGACACAAGCAGACAGGATGTGCTGGCCGGGGGGCCTCCTGCCC	
80889 T	A	S	AGACACAAGCAGACAGGATGTACTGGCCGGGGGCCTCCTGCCC	
			AGGTGTGGAGACATGGCCCCGGTCCCAGAACTCTGCAGCAGACACAAGCAGACAGGATGT[GA]CTGGCCGGGGGCC	
80889 IS	[GA]		TCCTGCCCGTGGGGTTTCCACAGCAACTGCCTCACACAAGAGGGAGA	
80912 I		A	CCACATCATCTCCTTTGGGCTGCAGGATGTCA	
80912 P	C	A	ATGACGTGGCAGACCGAAGCCATGTCCATCY	
80912 P	T	A	CGCGCCGAGGTGAAGCCATGTCCATCAY	
80912 T	C	A	GACCTGATGGACATGGCTTCGGACATCCTGCAGCCCAAAGGAGATGATGTGGCC	
80912 T	T	A	GACCTGATGGACATGGCTTCAGACATCCTGCAGCCCAAAGGAGATGATGTGGCC	
			GATGTCACGGAGGTACCAGCTGATCCGGGCCACATCATCTCCTTTGGGCTGCAGGATGTC[CT]GAAGCCATGTCCAT	
80912 IS	[CT]		CAGGTCAATACCTGGTGAGAAGGCATGATGGAGCTCATCCAGGCTC	
80969 I		A	GAGACTGAGCACCCTTCAGGAGCCAGCT	
80969 P	A	A	CGCGCCGAGGATGTGAATCTCAATGTCCACY	
80969 P	G	A	ATGACGTGGCAGACGTGTGAATCTCAATGTCCAY	
80969 T	A	A	TCATGTGGACATTGAGATTCACATGCTGGCTCCTGAAGGGTGCTCAGTCTCCT	
80969 T	G	A	TCATGTGGACATTGAGATTCACACGCTGGCTCCTGAAGGGTGCTCAGTCTCCT	
			GGCAGCAGTTCAAGCAGGACCTTAATCACCAAGGAGACTGAGCACCCTTCAGGAGCCAGC[AG]TGTGAATCTCAATG	
80969 IS	[AG]		TCCACATGAAGATGTGGTAGATGGGGCTGCAGCGACCTCGGGCAGG	TK2
80975 I		S	GCGCGGTTGGGGCCACTGCT	
80975 P	C	S	ATGACGTGGCAGACGAGGCCGTTTTAGGTAGY	
80975 P	T	S	CGCGCCGAGGAAGGCCGTTTTAGGTAGY	
80975 T	C	S	CAACCTACCTAAAACGGCCTCGCAGTGGCCCCAACCGCGCAC	
80975 T	T	S	CAACCTACCTAAAACGGCCTTGCAGTGGCCCCAACCGCGCAC	
			CTCCCCCGCCCGCCAGGCCCGGACGGCCTCGCCCTCTTAGCAACCTACCTAAAACGGCCT[CT]GCAGTGGCCCCAA	
80975 IS	[CT]		CCGCGCACTTGCTGCTTGTAACCCAGGCCTCGGCCCAAAACCCGCGA	
80979 I		S	CCCAGTGCCTGCCCCTCCCTT	
80979 P	T	S	CGCGCCGAGGAAGCACAAGCTGGAGAY	
80979 P	C	S	ATGACGTGGCAGACGAGCACAAGCTGGAGAY	
80979 T	T	S	GACTTCTCCAGCTTGTGCTTAGGGAGGGGCAGGCACTGGGGG	
80979 T	C	S	GACTTCTCCAGCTTGTGCTCAGGGAGGGGCAGGCACTGGGGG	
			AGTTGAGCCATGGGAGCCCTGAGAGCGCCACCACTGTGGGTGACTTCTCCAGCTTGTGCT[TC]AGGGAGGGGCAGG	
80979 IS	[TC]		CACTGGGGGGACCTGGGCTCTGAGCCCCATCTCCCCCTCTCCCTGCA	
81022 I		A	GGGAAGCACAGCACCAGAGCTGCTGT	
81022 P	G	A	ATGACGTGGCAGACGCGCACAGCAGGAY	
81022 P	A	A	CGCGCCGAGGACGCACAGCAGGAAY	
81022 T	G	A	AGACTTCCTGCTGTGCGCCAGCAGCTCTGGTGCTGTGCTTCCCGT	
81022 T	A	A	AGACTTCCTGCTGTGCGTCAGCAGCTCTGGTGCTGTGCTTCCCGT	
			GGTGGGTATGGCAGGAAGGGGTCCTGGGTCCTCACGGGAAGCACAGCACCAGAGCTGCTG[GA]CGCACAGCAGGAA	
81022 IS	[GA]		GTCTGGAGGGGAGCAGGGCCGGCGGCCTTAGCCAGGGCTCCGTCTCC	
81044 I		A	GGACTCACACCTTGGAGAGGTGAGTTGAGTGTA	
81044 P	C	A	ATGACGTGGCAGACCCTCCGAGATCCAGGY	
81044 P	T	A	CGCGCCGAGGTCTCCGAGATCCAGGTY	
81044 T	C	A	AGTAACCTGGATCTCGGAGGACACTCAACTCACCTCTCCAAGGTGTGAGTCCCC	
81044 T	T	A	AGTAACCTGGATCTCGGAGAACACTCAACTCACCTCTCCAAGGTGTGAGTCCCC	
			CCAACCCAGAAACAAAAGGACCGCTGGGGGACTCACACCTTGGAGAGGTGAGTTGAGTGT[CT]CTCCGAGATCCAGG	
81044 IS	[CT]		TTACTTTTCTGTTATGTATCCTTGGCTTGCCTTGACACCATCAGAA	
81072 I		S	ATCGATGGTTGGAAGGAGGGGTGGGGA	
81072 P	A	S	CGCGCCGAGGTGAGGTCTTCAAGCTGTY	
81072 P	G	S	ATGACGTGGCAGACCGAGGTCTTCAAGCTGY	
81072 T	A	S	AAACACAGCTTGAAGACCTCACCCCACCCCTCCTTCCAACCATCGATGT	
81072 T	G	S	AAACACAGCTTGAAGACCTCGCCCCACCCCTCCTTCCAACCATCGATGT	
			AAACAATGCATTTGAAGCACAAACAGTAAGCTGGCTATGGAAACACAGCTTGAAGACCTC[AG]CCCCACCCCTCCTTC	
81072 IS	[AG]		CAACCATCGATGTGCCTGAAGTCTTGCCCTGGCAGAGACCCTGCA	
81083 I		A	GGAGTTTTTGTTCTGTCTTTCAAACCATACAGGATATGAGGAGGTTGT	
81083 P	G	A	ATGACGTGGCAGACGTTTATTTCTTAGCCCTTTCAAY	
81083 P	A	A	CGCGCCGAGGATTTATTTCTTAGCCCTTTCAACY	
81083 T	G	A	CAAAGTTGAAAGGGCTAAGAAATAAACCAACCTCCTCATATCCTGTATGGTTTGAAAGACAGAACAAAAACTCCCC	
81083 T	A	A	CAAAGTTGAAAGGGCTAAGAAATAAATCAACCTCCTCATATCCTGTATGGTTTGAAAGACAGAACAAAAACTCCCC	
			GTCAGCTTTGGGGGGAGTTTTTGTTCTGTCTTTCAAACCATACAGGATATGAGGAGGTTG[GA]TTTATTTCTTAGCCCT	
81083 IS	[GA]		TTCAACTTTGTAGCTGCTATGGGGTTTGTTTTGAGGGGGCTGGG	
81084 I		S	TGTCGCAGTGGGGTTTGAAAGCTCTAAGGAGAA	
81084 P	A	S	CGCGCCGAGGTTATGCTTCTCCCTCACTY	
81084 P	G	S	ATGACGTGGCAGACCTATGCTTCTCCCTCACTY	
81084 T	A	S	TTAAAGTGAGGGAGAAGCATAATCTCCTTAGAGCTTTCAAACCCCACTGCGACAGG	
81084 T	G	S	TTAAAGTGAGGGAGAAGCATAGTCTCCTTAGAGCTTTCAAACCCCACTGCGACAGG	
			TGAGCATACATCTGAGACCATCAAGCTTTACACTTTGACTTAAAGTGAGGGAGAAGCATA[AG]TCTCCTTAGAGCTTTC	
81084 IS	[AG]		AAACCCCACTGCGACAGGTGGAAAACTGGAGAGACACCAGAGGA	
81098 I		A	GGACAAATGTGGGACTATGTGTGACAGTATGAGACTGGT	
81098 P	G	A	ATGACGTGGCAGACGTGTGAGAATGTGTGCGY	
81098 P	A	A	CGCGCCGAGGATGTGAGAATGTGTGCGY	
81098 T	G	A	CTGTCGCACACATTCTCACACCCAGTCTCATACTGTCACACATAGTCCCACATTTGTCCCA	
81098 T	A	A	CTGTCGCACACATTCTCACATCCAGTCTCATACTGTCACACATAGTCCCACATTTGTCCCA	
			TGTGTCAGTGTGAGACCATGTGGGACAAATGTGGGACTATGTGTGACAGTATGAGACTGG[GA]TGTGAGAATGTGTG	
81098 IS	[GA]		CGACAGTATGAGACCGTTGCCCCGGTGTATGCGGGAGCCTTTGACA	
81110 I		S	CCCAGATAGTTGACACTCAGGAACAGCACGGAC	
81110 P	A	S	CGCGCCGAGGTCAATAATGGCTCTGCCY	
81110 P	T	S	ATGACGTGGCAGACACAATAATGGCTCTGCCY	
81110 T	A	S	CAGAGGCAGAGCCATTATTGATCCGTGCTGTTCCTGAGTGTCAACTATCTGGGGG	
81110 T	T	S	CAGAGGCAGAGCCATTATTGTTCCGTGCTGTTCCTGAGTGTCAACTATCTGGGGG	
			CTTTGTGACATCTCACATTTTTTCCAAGAAGATGATGAGACAGAGGCAGAGCCATTATTG[AT]TCCGTGCTGTTCCTGA	
81110 IS	[AT]		GTGTCAACTATCTGGGGGGGACATTCCCAGGTAAGAAAAGCTAT	
81142 I		S	TGCTCCAGTTAAAGTCCTGTTAAAACACAAACCAGACATAATTCTTTCATTCT	
81142 P	C	S	ATGACGTGGCAGACGGGCATCACACAGTGY	
81142 P	T	S	CGCGCCGAGGAGGCATCACACAGTGAY	
81142 T	C	S	TATGTCACTGTGTGATGCCCGAATGAAAGAATTATGTCTGGTTTGTGTTTTAACAGGACTTTAACTGGAGCACA	
81142 T	T	S	TATGTCACTGTGTGATGCCTGAATGAAAGAATTATGTCTGGTTTGTGTTTTAACAGGACTTTAACTGGAGCACA	

FIGURE 129D

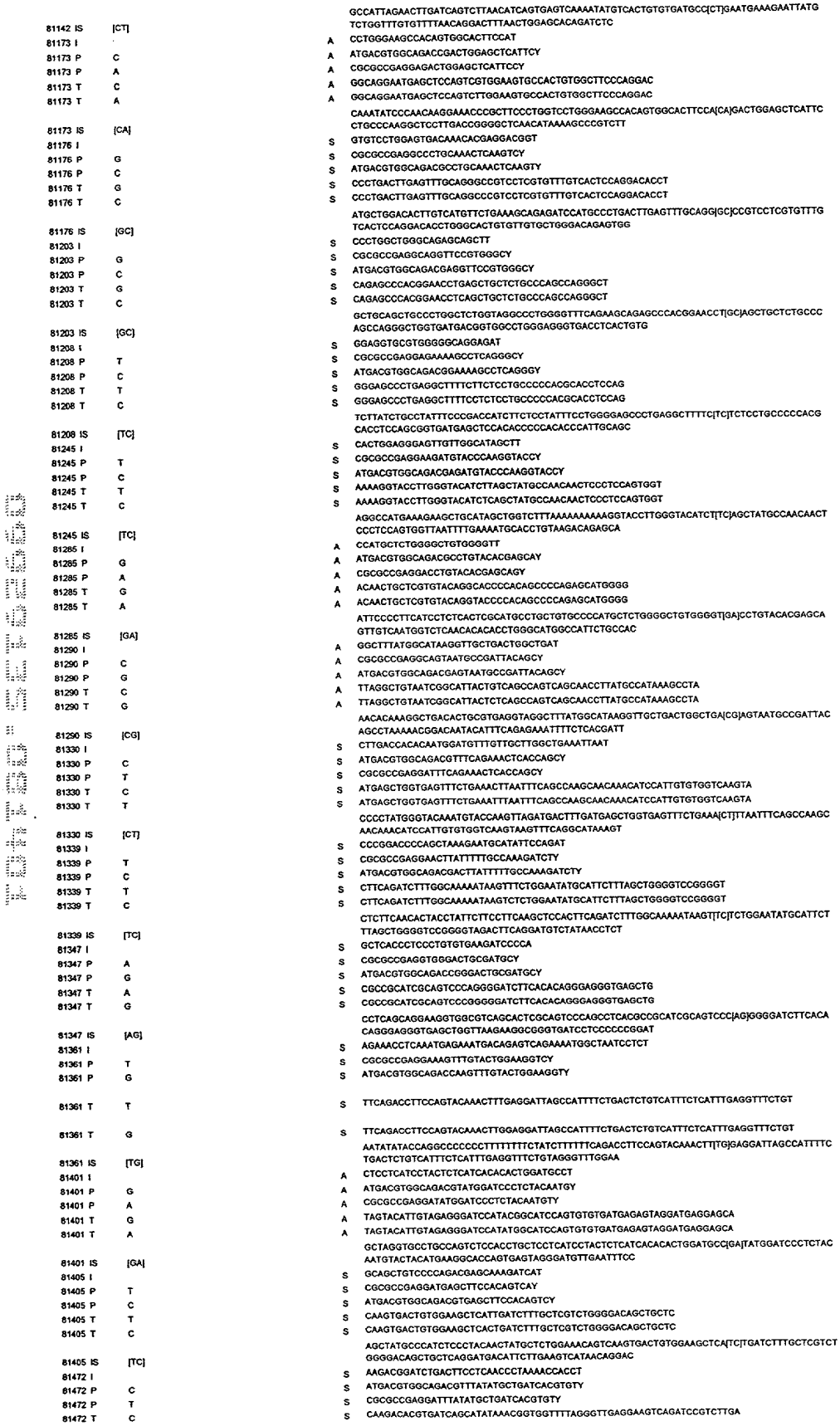
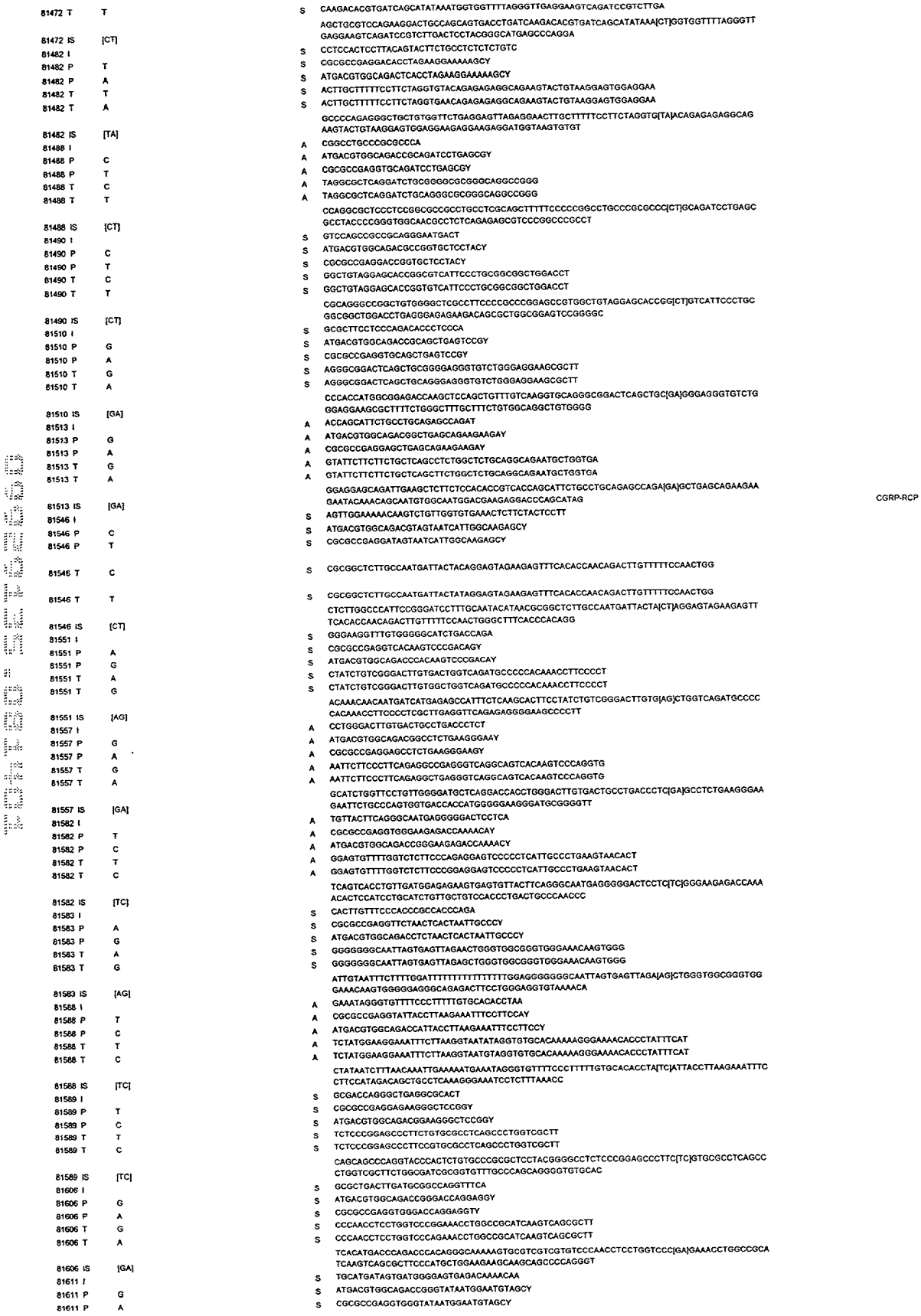

81142 IS [CT]
81173 I
81173 P C
81173 P A
81173 T C
81173 T A
81173 IS [CA]
81176 I
81176 P G
81176 P C
81176 T G
81176 T C
81176 IS [GC]
81203 I
81203 P G
81203 P C
81203 T G
81203 T C
81203 IS [GC]
81208 I
81208 P T
81208 P C
81208 T T
81208 T C
81208 IS [TC]
81245 I
81245 P T
81245 P C
81245 T T
81245 T C
81245 IS [TC]
81285 I
81285 P G
81285 P A
81285 T G
81285 T A
81285 IS [GA]
81290 I
81290 P C
81290 P G
81290 T C
81290 T G
81290 IS [CG]
81330 I
81330 P C
81330 P T
81330 T C
81330 T T
81330 IS [CT]
81339 I
81339 P T
81339 P C
81339 T T
81339 T C
81339 IS [TC]
81347 I
81347 P A
81347 P G
81347 T A
81347 T G
81347 IS [AG]
81361 I
81361 P T
81361 P G
81361 T T
81361 T G
81361 IS [TG]
81401 I
81401 P G
81401 P A
81401 T G
81401 T A
81401 IS [GA]
81405 I
81405 P T
81405 P C
81405 T T
81405 T C
81405 IS [TC]
81472 I
81472 P C
81472 P T
81472 T C
GCCATTAGAACTTGATCAGTCTTAACATCAGTGAGTCAAAATATGTCACTGTGTGATGCC[CT]GAATGAAAGAATTATG
TCTGGTTTGTGTTTTAACAGGACTTTAACTGGAGCACAGATCTC
A CCTGGGAAGCCACAGTGGCACTTCCAT
A ATGACGTGGCAGACCGACTGGAGCTCATTCY
A CGCGCCGAGGAGACTGGAGCTCATTCCY
A GGCAGGAATGAGCTCCAGTCGTGGAAGTGCCACTGTGGCTTCCCAGGAC
A GGCAGGAATGAGCTCCAGTCTTGGAAGTGCCACTGTGGCTTCCCAGGAC
CAAATATCCCAACAAGGAAACCCGCTTCCCTGGTCCTGGGAAGCCACAGTGGCACTTCCA[CA]GACTGGAGCTCATTC
CTGCCCAAGGCTCCTTGACCGGGGCTCAACATAAAAGCCCGTCTT
S GTGTCCTGGAGTGACAAACACGAGGACGGT
S CGCGCCGAGGCCCTGCAAACTCAAGTCY
S ATGACGTGGCAGACGCCTGCAAACTCAAGTY
S CCCTGACTTGAGTTTGCAGGGCCGTCCTCGTGTTTGTCACTCCAGGACACCT
S CCCTGACTTGAGTTTGCAGGCCCGTCCTCGTGTTTGTCACTCCAGGACACCT
ATGCTGGACACTTGTCATGTTCTGAAAGCAGAGATCCATGCCCTGACTTGAGTTTGCAGG[GC]CCGTCCTCGTGTTTG
TCACTCCAGGACACCTGGGCACTGTGTTGTGCTGGGACAGAGTGG
S CCCTGGCTGGGCAGAGCAGCTT
S CGCGCCGAGGCAGGTTCCGTGGGCY
S ATGACGTGGCAGACGAGGTTCCGTGGGCY
S CAGAGCCCACGGAACCTGAGCTGCTCTGCCCAGCCAGGGCT
S CAGAGCCCACGGAACCTCAGCTGCTCTGCCCAGCCAGGGCT
GCTGCAGCTGCCCTGGCTCTGGTAGGCCCTGGGGTTTCAGAAGCAGAGCCCACGGAACCT[GC]AGCTGCTCTGCCC
AGCCAGGGCTGGTGATGACGGTGGCCTGGGAGGGTGACCTCACTGTG
S GGAGGTGCGTGGGGGCAGGAGAT
S CGCGCCGAGGAGAAAAGCCTCAGGGCY
S ATGACGTGGCAGACGGAAAAGCCTCAGGGY
S GGGAGCCCTGAGGCTTTTCTTCTCCTGCCCCCACGCACCTCCAG
S GGGAGCCCTGAGGCTTTTCCTCTCCTGCCCCCACGCACCTCCAG
TCTTATCTGCCTATTTCCCGACCATCTTCTCCTATTTCCTGGGGAGCCCTGAGGCTTTTC[TC]TCTCCTGCCCCCACG
CACCTCCAGCGGTGATGAGCTCCACACCCCCACACCCATTGCAGC
S CACTGGAGGGAGTTGTTGGCATAGCTT
S CGCGCCGAGGAAGATGTACCCAAGGTACCY
S ATGACGTGGCAGACGAGATGTACCCAAGGTACCY
S AAAAGGTACCTTGGGTACATCTTAGCTATGCCAACAACTCCCTCCAGTGGT
S AAAAGGTACCTTGGGTACATCTCAGCTATGCCAACAACTCCCTCCAGTGGT
AGGCCATGAAAGAAGCTGCATAGCTGGTCTTTAAAAAAAAAAGGTACCTTGGGTACATCT[TC]AGCTATGCCAACAACT
CCCTCCAGTGGTTAATTTTGAAAATGCACCTGTAAGACAGAGCA
A CCATGCTCTGGGGCTGTGGGGTT
A ATGACGTGGCAGACGCCTGTACACGAGCAY
A CGCGCCGAGGACCTGTACACGAGCAGY
A ACAACTGCTCGTGTACAGGCACCCCACAGCCCCAGAGCATGGGG
A ACAACTGCTCGTGTACAGGTACCCCACAGCCCCAGAGCATGGGG
ATTCCCCTTCATCCTCTCACTCGCATGCCTGCTGTGCCCCATGCTCTGGGGCTGTGGGGT[GA]CCTGTACACGAGCA
GTTGTCAATGGTCTCAACACACACCTGGGCATGGCCATTCTGCCAC
A GGCTTTATGGCATAAGGTTGCTGACTGGCTGAT
A CGCGCCGAGGCAGTAATGCCGATTACAGCY
A ATGACGTGGCAGACGAGTAATGCCGATTACAGCY
A TTAGGCTGTAATCGGCATTACTGTCAGCCAGTCAGCAACCTTATGCCATAAAGCCTA
A TTAGGCTGTAATCGGCATTACTCTCAGCCAGTCAGCAACCTTATGCCATAAAGCCTA
AACACAAAGGCTGACACTGCGTGAGGTAGGCTTTATGGCATAAGGTTGCTGACTGGCTGA[CG]AGTAATGCCGATTAC
AGCCTAAAAACGGACAATACATTTCAGAGAAATTTTCTCACGATT
S CTTGACCACACAATGGATGTTTGTTGCTTGGCTGAAATTAAT
S ATGACGTGGCAGACGTTTCAGAAACTCACCAGCY
S CGCGCCGAGGATTTCAGAAACTCACCAGCY
S ATGAGCTGGTGAGTTTCTGAAACTTAATTTCAGCCAAGCAACAAACATCCATTGTGTGGTCAAGTA
S ATGAGCTGGTGAGTTTCTGAAATTTAATTTCAGCCAAGCAACAAACATCCATTGTGTGGTCAAGTA
CCCCTATGGGTACAAATGTACCAAGTTAGATGACTTTGATGAGCTGGTGAGTTTCTGAAA[CT]TTAATTTCAGCCAAGC
AACAAACATCCATTGTGTGGTCAAGTAAGTTTCAGGCATAAAGT
S CCCGGACCCCAGCTAAAGAATGCATATTCCAGAT
S CGCGCCGAGGAACTTATTTTTGCCAAAGATCTY
S ATGACGTGGCAGACGACTTATTTTTGCCAAAGATCTY
S CTTCAGATCTTTGGCAAAAATAAGTTTCTGGAATATGCATTCTTTAGCTGGGGTCCGGGGT
S CTTCAGATCTTTGGCAAAAATAAGTCTCTGGAATATGCATTCTTTAGCTGGGGTCCGGGGT
CTCTTCAACACTACCTATTCTTCCTTCAAGCTCCACTTCAGATCTTTGGCAAAAATAAGT[TC]TCTGGAATATGCATTCT
TTAGCTGGGGTCCGGGGTAGACTTCAGGATGTCTATAACCTCT
S GCTCACCCTCCCTGTGTGAAGATCCCCA
S CGCGCCGAGGTGGGACTGCGATGCY
S ATGACGTGGCAGACCGGGACTGCGATGCY
S CGCCGCATCGCAGTCCCAGGGGATCTTCACACAGGGAGGGGTGAGCTG
S CGCCGCATCGCAGTCCCGGGGGATCTTCACACAGGGAGGGGTGAGCTG
CCTCAGCAGGAAGGTGGCGTCAGCACTCGCAGTCCCAGCCTCACGCCGCATCGCAGTCCC[AG]GGGGATCTTCACA
CAGGGAGGGTGAGCTGGTTAAGAAGGCGGGTGATCCTCCCCCCGGAT
S AGAAACCTCAAATGAGAAATGACAGAGTCAGAAAATGGCTAATCCTCT
S CGCGCCGAGGAAAGTTTGTACTGGAAGGTCY
S ATGACGTGGCAGACCAAGTTTGTACTGGAAGGTY
S TTCAGACCTTCCAGTACAAACTTTGAGGATTAGCCATTTTCTGACTCTGTCATTTCTCATTTGAGGTTTCTGT
S TTCAGACCTTCCAGTACAAACTTGGAGGATTAGCCATTTTCTGACTCTGTCATTTCTCATTTGAGGTTTCTGT
AATATATACCAGGCCCCCCCTTTTTTTTCTATCTTTTTTCAGACCTTCCAGTACAAACTT[TG]GAGGATTAGCCATTTTC
TGACTCTGTCATTTCTCATTTGAGGTTTCTGTAGGGTTTGGAA
A CTCCTCATCCTACTCTCATCACACACTGGATGCCT
A ATGACGTGGCAGACGTATGGATCCCTCTACAATGY
A CGCGCCGAGGATATGGATCCCTCTACAATGTY
A TAGTACATTGTAGAGGGATCCATACGGCATCCAGTGTGTGATGAGAGTAGGATGAGGAGCA
A TAGTACATTGTAGAGGGATCCATATGGCATCCAGTGTGTGATGAGAGTAGGATGAGGAGCA
GCTAGGTGCCTGCCAGTCTCCACCTGCTCCTCATCCTACTCTCATCACACACTGGATGCC[GA]TATGGATCCCTCTAC
AATGTACTACATGAAGGCACCAGTGAGTAGGGATGTTGAATTTCC
S GCAGCTGTCCCCAGACGAGCAAAGATCAT
S CGCGCCGAGGATGAGCTTCCACAGTCAY
S ATGACGTGGCAGACGTGAGCTTCCACAGTCY
S CAAGTGACTGTGGAAGCTCATTGATCTTTGCTCGTCTGGGGACAGCTGCTC
S CAAGTGACTGTGGAAGCTCACTGATCTTTGCTCGTCTGGGGACAGCTGCTC
AGCTATGCCCATCTCCCTACAACTATGCTCTGGAAACAGTCAAGTGACTGTGGAAGCTCA[TC]TGATCTTTGCTCGTCT
GGGGACAGCTGCTCAGGATGACATTCTTGAAGTCATAACAGGAC
S AAGACGGATCTGACTTCCTCAACCCTAAAACCACCT
S ATGACGTGGCAGACGTTTATATGCTGATCACGTGTY
S CGCGCCGAGGATTTATATGCTGATCACGTGTY
S CAAGACACGTGATCAGCATATAAACGGTGGTTTTAGGGTTGAGGAAGTCAGATCCGTCTTGA

FIGURE 129D



CGRP-RCP

FIGURE 129D

81611 T	G		S	TCCAGCTACATTCCATTATACCCGTGTTTTGTCTCACTCCCCATCACTATCATGCATA
81611 T	A		S	TCCAGCTACATTCCATTATACCCATGTTTTGTCTCACTCCCCATCACTATCATGCATA
81611 IS	[GA]			AAACAAAGCTGTTTGAGGTAATAGCGTTTGTTTTAATTCCAGCTACATTCCATTATACCC[GA]TGTTTTGTCTCACTCCC CATCACTATCATGCATACTTAATAATGTGCTTAATGCATATTT
81636 I			S	GGCTGGACCAGGCACCCTTGCCT
81636 P	T		S	CGCGCCGAGGAGGGCACTTGGCGY
81636 P	C		S	ATGACGTGGCAGACGGGGCACTTGGCGY
81636 T	T		S	TGCCCGCCAAGTGCCCTGGCAAGGGTGCCTGGTCCAGCCCA
81636 T	C		S	TGCCCGCCAAGTGCCCCGGCAAGGGTGCCTGGTCCAGCCCA
81636 IS	[TC]			GGAGACCGCCCTGTACTGGAAAATGCTGGGCGACCCCAGCTGGCTGCCCGCCAAGTGCCC[TC]GGCAAGGGTGCCT GGTCCAGCCCATGGAAGTGGCTGTTTGGGGCGACTGCTGTTGCCTTG
81730 I			S	GGAAGGGCACCACTCCTGCAGCAGA
81730 P	G		S	ATGACGTGGCAGACCGTTCCACGTTTTAACTGTY
81730 P	A		S	CGCGCCGAGGTGTTCCACGTTTTAACTGTY
81730 T	G		S	ATGAACAGTTAAAACGTGGAACGCTGCTGCAGGAGTGGTGCCCTTCCTA
81730 T	A		S	ATGAACAGTTAAAACGTGGAACACTGCTGCAGGAGTGGTGCCCTTCCTA
81730 IS	[GA]			ACTTTGCTAAGAAAAGGTTTTTGTATATGAAGTTAGATATGAACAGTTAAAACGTGGAAC[GA]CTGCTGCAGGAGTGGT GCCCTTCCTATAAAAGGAGGCGTGTGAAGAGTGGGCCTACTGGG
81733 I			S	GCAGCTTATCTCTTGGAAGTGGCACAGAGACTTCACA
81733 P	G		S	ATGACGTGGCAGACCTACCTTGCTTAAAAATATTGACAY
81733 P	A		S	CGCGCCGAGGTTACCTTGCTTAAAAATATTGACAAY
81733 T	G		S	CCTATTGTCAATATTTTTAAGCAAGGTAGGTGAAGTCTCTGTGCCACTTCCAAGAGATAAGCTGCAT
81733 T	A		S	CCTATTGTCAATATTTTTAAGCAAGGTAAGTGAAGTCTCTGTGCCACTTCCAAGAGATAAGCTGCAT
81733 IS	[GA]			TCCTAGGAAACCCATGAGATTAGCAGATGATGCCTATTGTCAATATTTTTAAGCAAGGTA[GA]GTGAAGTCTCTGTGCC ACTTCCAAGAGATAAGCTGCATATCTCTAACAGGGAAGAAAGCA
81738 I			S	CGAAGCCTCGTGATTCGTCGGCCGT
81738 P	T		S	CGCGCCGAGGACCCAGCCCAACTCY
81738 P	C		S	ATGACGTGGCAGACGCCCAGCCCAACTY
81738 T	T		S	AGCTGAGTTGGGCTGGGTCGGCCGACGAATCACGAGGCTTCGCA
81738 T	C		S	AGCTGAGTTGGGCTGGGCCGGCCGACGAATCACGAGGCTTCGCA
81738 IS	[TC]			CAGCCAATGAGGTGATAGAAACGCAAAGCAGCGACCAATGACTAGCTGAGTTGGGCTGGG[TC]CGGCCGACGAATCA CGAGGCTTCGCACCCGGATATGGTTATGGGCTCGGAAATCTAGTTC
81744 I			S	CGCAAAAGCCCAGTAGCAAGGCTGGACA
81744 P	A		S	CGCGCCGAGGTTCAAATGTAGATCAAGTACAATCY
81744 P	G		S	ATGACGTGGCAGACCTCAAATGTAGATCAAGTACAATCY
81744 T	A		S	CATGGATTGTACTTGATCTACATTTGAAGTCCAGCCTTGCTACTGGGCTTTTGCGTA
81744 T	G		S	CATGGATTGTACTTGATCTACATTTGAGGTCCAGCCTTGCTACTGGGCTTTTGCGTA
81744 IS	[AG]			TCCTCTGACTACACTTCCAGGTATTCTAGTAATCATGGATTGTACTTGATCTACATTTGA[AG]GTCCAGCCTTGCTACT GGGCTTTTGCGTATGCTGAGTCTCTAAACCTTTAAGTATTTTGT
81764 I			A	GAGACCCACGGGGGAGAAAAAAGGACCATCC
81764 P	T		A	CGCGCCGAGGTAATACAAGGACTGAGGAATGY
81764 P	G		A	ATGACGTGGCAGACGAATACAAGGACTGAGGAATGY
81764 T	T		A	GTGGCATTCCTCAGTCCTTGTATTAGATGGTCCTTTTTTCTCCCCCGTGGGTCTCAA
81764 T	G		A	GTGGCATTCCTCAGTCCTTGTATTCGATGGTCCTTTTTTCTCCCCCGTGGGTCTCAA
81764 IS	[TG]			CACACACAAGAAAAGCAGTCTCATGGGATTGAGACCCACGGGGGAGAAAAAAGGACCATC[TG]AATACAAGGACTGA GGAATGCCACAATGACATACACCTGCTGTAAGCTCAGGTCCTGCCC
81799 I			A	AGCTATATTTTATTTTTAATTAAGATTTTTGGAGGAAAGTTATTGTATAAACTAAGGGGGA
81799 P	T		A	CGCGCCGAGGTTGGCATATATGTTAGATTTAACATTY
81799 P	C		A	ATGACGTGGCAGACCTGGCATATATGTTAGATTTAACATY
81799 T	T		A	TTATAATGTTAAATCTAACATATATGCCAACCCCCTTAGTTTATACAATAACTTTCCTCCAAAAATCTTAATTAAAAATAA AATATAGCT
81799 T	C		A	TTATAATGTTAAATCTAACATATATGCCAGCCCCCTTAGTTTATACAATAACTTTCCTCCAAAAATCTTAATTAAAAATAA AATATAGCT
81799 IS	[TC]			AGCTATATTTTATTTTTAATTAAGATTTTTGGAGGAAAGTTATTGTATAAACTAAGGGGG[TC]TGGCATATATGTTAGAT TTAACATTATAATGACAGTCATTTGTAAAACATTCCCTATAGT
81803 I			A	GCCCTTTTCTATTAGGGAACCAATAAGGCATTAATAGCCAAGCT
81803 P	A		A	CGCGCCGAGGATTTACTTTAAAAAGTCGCCATTY
81803 P	G		A	ATGACGTGGCAGACGTTTACTTTAAAAAGTCGCCATY
81803 T	A		A	CAACAATGGCGACTTTTTAAAGTAAATGCTTGGCTATTAATGCCTTATTGGTTCCCTAATAGAAAAGGGCAA
81803 T	G		A	CAACAATGGCGACTTTTTAAAGTAAACGCTTGGCTATTAATGCCTTATTGGTTCCCTAATAGAAAAGGGCAA
81803 IS	[AG]			GGAATCATATGAGCATTGCCCTTTTCTATTAGGGAACCAATAAGGCATTAATAGCCAAGC[AG]TTTACTTTAAAAAGTC GCCATTGTTGAACCCATATTAGTGTATTTTGGGGGAACTTCATG
81807 I			A	GGGTAGAAATGGATGATTATTTGGCCGTAGAGTTGTTA
81807 P	T		A	CGCGCCGAGGTAACCATTACTGTGTTTTTCTGY
81807 P	C		A	ATGACGTGGCAGACCAACCATTACTGTGTTTTTCTGY
81807 T	T		A	AAATCAGAAAAACACAGTAATGGTTAAACAACTCTACGGCCAAATAATCATCCATTTCTACCCTC
81807 T	C		A	AAATCAGAAAAACACAGTAATGGTTGAACAACTCTACGGCCAAATAATCATCCATTTCTACCCTC
81807 IS	[TC]			ATTTGTTATTTGTGACTATAAGAGGGTAGAAATGGATGATTATTTGGCCGTAGAGTTGTT[TC]AACCATTACTGTGTTTT TCTGATTTTTCTATGTCATCCTTTTTTTTGTAGGGCCCAGTAA
81814 I			A	GGTTTACCCTTGCCCTTGAATCTCCATGGTAACCAA
81814 P	T		A	CGCGCCGAGGTTGTAGTCTGTGTGTTGTAATY
81814 P	C		A	ATGACGTGGCAGACCTGTAGTCTGTGTGTTGTAATY
81814 T	T		A	GTTGATTACAACACACAGACTACAATGGTTACCATGGAGATTCAAGGGCAAGGGTAAACCTG
81814 T	C		A	GTTGATTACAACACACAGACTACAGTGGTTACCATGGAGATTCAAGGGCAAGGGTAAACCTG
81814 IS	[TC]			GATGTTTCCTTTGAAATAGTTCTCAGGTTTACCCTTGCCCTTGAATCTCCATGGTAACCA[TC]TGTAGTCTGTGTGTTG TAATCAACTGGATTACTCAAACAGCAGTCCAGCTGGCTGCTCCA
81845 I			S	TCACACATCTTCTCCTAGAGCCCAAGCACACCA
81845 P	G		S	ATGACGTGGCAGACCGAATCACCACAGAACAGY
81845 P	A		S	CGCGCCGAGGTGAATCACCACAGAACAGY
81845 T	G		S	TGTCCTGTTCTGTGGTGATTCGGGTGTGCTTGGGCTCTAGGAGAAGATGTGTGAAG
81845 T	A		S	TGTCCTGTTCTGTGGTGATTCAGGTGTGCTTGGGCTCTAGGAGAAGATGTGTGAAG
81845 IS	[GA]			CACCCCCACCCCATTTCTGCTTTCTGGAACCCCCGATCCTGTCCTGTTCTGTGGTGATTC[GA]GGTGTGCTTGGGCTC TAGGAGAAGATGTGTGAAGAATCGGCATCCTTTGACCTGACTCCC
81847 I			A	CCCTCAGGCCCGAGCCTGCCC
81847 P	T		A	CGCGCCGAGGTTCTTCTCCTCAGTTCCCY
81847 P	G		A	ATGACGTGGCAGACGTCTTCTCCTCAGTTCCCY
81847 T	T		A	CTTTGGGAACTGAGGAGAAGAAGGCAGGCTCGGGCCTGAGGGGG
81847 T	G		A	CTTTGGGAACTGAGGAGAAGACGGCAGGCTCGGGCCTGAGGGGG
81847 IS	[TG]			TTTTCTTCTCGGCAGCTACATCTTTGACCAGTGTCGTCCCCCCTCAGGCCCGAGCCTGCC[TG]TCTTCTCCTCAGTTC CCAAAGCTGCAGTCTGGTCCCCCCGCCAGGCTCGAGCCTGCCTTC
81852 I			A	CTTTACCTGAATTTGTTGTTGAGCTCTTTCAGCATGAAGAGCT
81852 P	G		A	ATGACGTGGCAGACGATTTCTTCAGTTTCTAGAAAGAGY
81852 P	A		A	CGCGCCGAGGAATTTCTTCAGTTTCTAGAAAGAGY
81852 T	G		A	CCCTCTCTTTCTAGAAACTGAAGAAATCGCTCTTCATGCTGAAAGAGCTCAACAACAAATTCAGGTAAAGCT

FIGURE 129D

81852 T	A	A	CCCTCTCTTTCTAGAAACTGAAGAAATTGCTCTTCATGCTGAAAGAGCTCAACAACAAATTCAGGTAAAGCT	
81852 IS	[GA]		GTAGGACAACGGAAAAAAGCTTTACCTGAATTTGTTGTTGAGCTCTTTCAGCATGAAGAGC[GA]ATTTCTTCAGTTTCTA GAAAGAGAGGGAATGACAGAGTTCTCAAGCCAGGATGAATAAAA	
81860 I		S	TTTGTTTCTTCCTTTCCCAGGTTATTGAAGATCCTATACAAGA	
81860 P	G	S	ATGACGTGGCAGACCAGAGCGAGTCAAATTTGTGY	
81860 P	A	S	CGCGCCGAGGTAGAGCGAGTCAAATTTGTGY	
81860 T	G	S	CAAACACAAATTTGACTCGCTCTGCTTGTATAGGATCTTCAATAACCTGGGAAAGGAAGAAACAAAAA	
81860 T	A	S	CAAACACAAATTTGACTCGCTCTACTTGTATAGGATCTTCAATAACCTGGGAAAGGAAGAAACAAAAA GACCAGGCATACTTGCCTAGTAATCCATTTTCTGTCTCAAACACAAATTTGACTCGCTCT[GA]CTTGTATAGGATCTTC AATAACCTGGGAAAGGAAGAAACAAAAATTAGTAAATAAAAGAA	
81860 IS	[GA]			
81879 I		S	GGGTAGGGTCTGACACTGCCAGGGGT	
81879 P	G	S	CGCGCCGAGGCCATCCCTCCTGGAAGY	
81879 P	C	S	ATGACGTGGCAGACGCATCCCTCCTGGAAY	
81879 T	G	S	AGACCTTCCAGGAGGGATGGCCCCTGGCAGTGTCAGACCCTACCCTG	
81879 T	C	S	AGACCTTCCAGGAGGGATGCCCCCTGGCAGTGTCAGACCCTACCCTG GTGGCTGGGTCCAGACATGAAGAGGTGCTACCGAGGTAAGCAGACCTTCCAGGAGGGATG[GC]CCCCTGGCAGTGT CAGACCCTACCCTGCTGAAATCTTCCCTTGGCTTCTGGGACACAGTA	
81879 IS	[GC]			
81888 I		S	TGAGCAAGGGGAGGGGGCTGGAA	
81888 P	A	S	CGCGCCGAGGTTCCCGAAGGTTAAATCCY	
81888 P	G	S	ATGACGTGGCAGACCTCCCGAAGGTTAAATCCY	
81888 T	A	S	GCTGGGATTTAACCTTCGGGAATCCAGCCCCCTCCCCTTGCTCAGA	
81888 T	G	S	GCTGGGATTTAACCTTCGGGAGTCCAGCCCCCTCCCCTTGCTCAGA CCCTTCCCCACCACAACCCACAGCACGGGGTCTGAGAATGCTGGGATTTAACCTTCGGGA[AG]TCCAGCCCCCTCCC CTTGCTCAGACAGGGTGGGGAGGGGCTGTGCCACAGGAGGCACAGC	
81888 IS	[AG]			
81892 I		S	TCAGGGCGATGGCGCCGCTT	
81892 P	T	S	CGCGCCGAGGATGAGAGTAAAGATCAAGGAAGY	
81892 P	C	S	ATGACGTGGCAGACGTGAGAGTAAAGATCAAGGAAY	
81892 T	T	S	GAGTCTTCCTTGATCTTTACTCTCATAGCGGCGCCATCGCCCTGAGT	
81892 T	C	S	GAGTCTTCCTTGATCTTTACTCTCACAGCGGCGCCATCGCCCTGAGT TCCTCCATCCCCAGCAGGATGGTTGACAGTGGGGAGAGTCTTCCTTGATCTTTACTCTCA[TC]AGCGGCGCCATCGC CCTGAGTCAGGGTCTGGGAGCCGAGAGGCCCCCACAAGCTGTGAAT	
81892 IS	[TC]			
81893 I		S	GATGGGAACCTGACAGGAAACATCCGGGAT	
81893 P	C	S	ATGACGTGGCAGACGTTCCTGCCCATTGTTY	
81893 P	T	S	CGCGCCGAGGATTCCTGCCCATTGTTGY	
81893 T	C	S	TCACCAACAATGGGCAGGAACTCCCGGATGTTTCCTGTCAGGTTCCCATCCA	
81893 T	T	S	TCACCAACAATGGGCAGGAATTCCCGGATGTTTCCTGTCAGGTTCCCATCCA TGTGGGGATTGAAAGGGTGGGAGGGCAAAGGAAGGTCCTCTCACCAACAATGGGCAGGAA[CT]TCCCGGATGTTTCC TGTCAGGTTCCCATCCATGATCTGCCAGTGGAATATGTCCTAGGGA	
81893 IS	[CT]			
81907 I		A	TCTGGGAGGATGGGACTCGGAAGACCTGA	
81907 P	C	A	ATGACGTGGCAGACCCACTCATTTGGATTGACAY	
81907 P	T	A	CGCGCCGAGGTCACTCATTTGGATTGACATAY	
81907 T	C	A	GTTGTATGTCAATCCAAATGAGTGGCAGGTCTTCCGAGTCCCATCCTCCCAGATC	
81907 T	T	A	GTTGTATGTCAATCCAAATGAGTGACAGGTCTTCCGAGTCCCATCCTCCCAGATC TGTTCAGGCAGACAGGGGCTCTCTGGAGAAGATCTGGGAGGATGGGACTCGGAAGACCTG[CT]CACTCATTTGGATT GACATACAACTGTAGGCAAAGTATCAGAGATGTCTAGTTTCTATCA	
81907 IS	[CT]			
81914 I		S	GGGCGTGGGGAGCCATACAGGGT	
81914 P	G	S	ATGACGTGGCAGACCCAGAGCCTGGGTGY	
81914 P	T	S	CGCGCCGAGGACAGAGCCTGGGTGY	
81914 T	G	S	GCCACACCCAGGCTCTGGCCCTGTATGGCTCCCCACGCCCCC	
81914 T	T	S	GCCACACCCAGGCTCTGTCCCTGTATGGCTCCCCACGCCCCC GGGCACCTCCTGAAAGCTCTCAGCCTCTGTTCCTGCTCAGAGGGCCACACCCAGGCTCTG[GT]CCCTGTATGGCTCC CCACGCCCCCCACCCGGCTGCCTCCGCTCACGTCGTTGGGACAGTT	
81914 IS	[GT]			
81920 I		S	TGTACTGAGAGCCTGGAACACCCCTGATAGGAT	
81920 P	C	S	ATGACGTGGCAGACGAGAAGGGGGAAAGGCY	
81920 P	T	S	CGCGCCGAGGAAGAAGGGGGAAAGGCY	
81920 T	C	S	GGATGCCTTTCCCCCTTCTCTCCTATCAGGGGTGTTCCAGGCTCTCAGTACAAA	
81920 T	T	S	GGATGCCTTTCCCCCTTCTTTCCTATCAGGGGTGTTCCAGGCTCTCAGTACAAA GTCGCTGGGAAACAAACTTGGTAAAGGAATTGTCTTTAAAAGGATGCCTTTCCCCCTTCT[CT]TCCTATCAGGGGTGTT CCAGGCTCTCAGTACAAAGAACAAGGAGTTCATTCATCTCAATA	
81920 IS	[CT]			
81921 I		A	TGGCCCCACACCTCACACCCCTT	
81921 P	G	A	ATGACGTGGCAGACGCCTTATCTCCTCCTGCY	
81921 P	C	A	CGCGCCGAGGCCCTTATCTCCTCCTGCY	
81921 T	G	A	AACTGCAGGAGGAGATAAGGCAGGGGTGTGAGGTGTGGGGCCAGG	
81921 T	C	A	AACTGCAGGAGGAGATAAGGGAGGGGTGTGAGGTGTGGGGCCAGG TGACCAGGGAGGCCCAGGCAGCCCCATCCTCTCCTCCCTGGCCCCACACCTCACACCCCT[GC]CCTTATCTCCTCCT GCAGTTGGTGTGTGAAGACGTCAATGTGGATCGGTTCTATCCTGTG	
81921 IS	[GC]			
81935 I		A	CCCTCTGCTACATCCTGCCCTTGAACTCCT	
81935 P	A	A	CGCGCCGAGGAGGAAGTTGCTCTTGCY	
81935 P	C	A	ATGACGTGGCAGACCGGAAGTTGCTCTTGCY	
81935 T	A	A	CAATGCAAGAGCAACTTCCTGGAGTTCAAGGGCAGGATGTAGCAGAGGGGG	
81935 T	C	A	CAATGCAAGAGCAACTTCCGGGAGTTCAAGGGCAGGATGTAGCAGAGGGGG TTTCCTAGCCAAATGTAGGCTTGGACTTTCCCCCTCTGCTACATCCTGCCCTTGAACTCC[AC]GGAAGTTGCTCTTGC ATTGCCAAAGGTTGTGCTCTATTTTGAGCTTTTGCGAAATGCTTT	
81935 IS	[AC]			
81939 I		A	GGACAGGGCTTCTCAACCCCTTTCCCTT	
81939 P	G	A	ATGACGTGGCAGACGCCTCCCGCCCY	
81939 P	C	A	CGCGCCGAGGCCCTCCCGCCCTY	
81939 T	G	A	TGGGAGGGCGGGAGGCAGGGAAAGGGGTTGAGAAGCCCTGTCCAA	
81939 T	C	A	TGGGAGGGCGGGAGGGAGGGAAAGGGGTTGAGAAGCCCTGTCCAA AGGAGGGAGACCATCATCCCTCCCCGACACTTGGACAGGGCTTCTCAACCCCTTTCCCT[GC]CCTCCCGCCCTCCC ACAGAGAATGGCTACGCCAGCACAGATGAGGAGATCTCAGAGTTCT	
81939 IS	[GC]			
81946 I		S	ACCCTCCTAGCTGACTCTGTTTCTCTGGGCT	
81946 P	T	S	CGCGCCGAGGAAGCAGAAAGCAAAAGGTY	
81946 P	C	S	ATGACGTGGCAGACGAGCAGAAAGCAAAAGGTY	
81946 T	T	S	CATCACCTTTTGCTTTCTGCTTGCCCAGAGAAACAGAGTCAGCTAGGAGGGTGG	
81946 T	C	S	CATCACCTTTTGCTTTCTGCTCGCCCAGAGAAACAGAGTCAGCTAGGAGGGTGG GGATGTAGGCATAGGGATCCGGCCGGCCTTTCTTCTTCACATCACCTTTTGCTTTCTGCT[TC]GCCCAGAGAAACAGA GTCAGCTAGGAGGGTGGGGTTCCCCTTCTGTCCCTGCCCTAGACT	
81946 IS	[TC]			
81957 I		A	CGTGCAGCCCCCGTCCCAGTAA	
81957 P	T	A	CGCGCCGAGGTGACATACCCAGGCTCY	
81957 P	C	A	ATGACGTGGCAGACCGACATACCCAGGCTY	
81957 T	T	A	CTGCGAGCCTGGGTATGTCATACTGGGACGGGGGCTGCACGCT	
81957 T	C	A	CTGCGAGCCTGGGTATGTCGTACTGGGACGGGGGCTGCACGCT GGACGCCCAGGTGCAGACGGAGGCCCCCGTGCCTGTCAGCGTGCAGCCCCCGTCCCAGTA[TC]GACATACCCAGGC TCGCAGCCTTTCTTCGGAGAGTGGAGGCCATGGTCATCCGAGAGCTG	
81957 IS	[TC]			
81960 I		S	AGACCAGCAGCTTATGAGCGATGATGAGGACAGT	
81960 P	G	S	ATGACGTGGCAGACCCTTCAGGATAGGCATGAY	

FIGURE 129D

81960 P	T	S	CGCGCCGAGGACTTCAGGATAGGCATGAY		
81960 T	G	S	AGCTTCATGCCTATCCTGAAGGCTGTCCTCATCATCGCTCATAAGCTGCTGGTCTAA		
81960 T	T	S	AGCTTCATGCCTATCCTGAAGTCTGTCCTCATCATCGCTCATAAGCTGCTGGTCTAA		
81960 IS	[GT]		GCCCAGGTGGCGGGCTGTAGCAGCTTCAGCGAGGTGTCCAGCTTCATGCCTATCCTGAAG[GT]CTGTCCTCATCATC GCTCATAAGCTGCTGGTCTAAACCAGGCAGCCTCTCTTGCTAGGAG		SEC31B-1
81975 I		A	CATCAGATCTGTTCCAAGACTTTTTACATTCTCCAAATCGTCTTTCATTGAT		
81975 P	A	A	CGCGCCGAGGATAAGACAGGTCCATAAGGTY		
81975 P	G	A	ATGACGTGGCAGACGTAAGACAGGTCCATAAGGY		
81975 T	A	A	TACTACCTTATGGACCTGTCTTATTCAATGAAAGACGATTTGGAGAATGTAAAAAGTCTTGGAACAGATCTGATGAA		
81975 T	G	A	TACTACCTTATGGACCTGTCTTACTCAATGAAAGACGATTTGGAGAATGTAAAAAGTCTTGGAACAGATCTGATGAA		
81975 IS	[AG]		CATTTCATTCATCAGATCTGTTCCAAGACTTTTTACATTCTCCAAATCGTCTTTCATTGA[AG]TAAGACAGGTCCATAAG GTAGTAGAGGTCAATGGGATAGTCTTCAGCTCTCTTGAATTTT		ITGB1
81991 I		S	GCCTTCCTTCACTGAGCCACTGCTCCTT		
81991 P	C	S	ATGACGTGGCAGACGTCACTCAGTTAGGTATGGAY		
81991 P	T	S	CGCGCCGAGGATCACTCAGTTAGGTATGGAY		
81991 T	C	S	GAAATCCATACCTAACTGAGTGACAGGAGCAGTGGCTCAGTGAAGGAAGGCAC		
81991 T	T	S	GAAATCCATACCTAACTGAGTGATAGGAGCAGTGGCTCAGTGAAGGAAGGCAC		
81991 IS	[CT]		AGGTGGCCCGGAGATTCCCTAGAATAATCCTGCGATTGAAATCCATACCTAACTGAGTGA[CT]AGGAGCAGTGGCTCA GTGAAGGAAGGCACTAAGGTAGAGGGCCTAGGCCTCCCCAGGTGC		
81998 I		A	GGCCCAAAACAGATTTGTTAACCTATCTGGGGT		
81998 P	A	A	CGCGCCGAGGAGGAGAAAAAAGCCAGAACY		
81998 P	G	A	ATGACGTGGCAGACGGGAGAAAAAAGCCAGAAY		
81998 T	A	A	TAAAGTTCTGGCTTTTTTCTCCTCCCCAGATAGGTTAACAAATCTGTTTTGGGCCTA		
81998 T	G	A	TAAAGTTCTGGCTTTTTTCTCCCCCCCAGATAGGTTAACAAATCTGTTTTGGGCCTA		
81998 IS	[AG]		GAGTTTGATGAGGAGAAACTAAGTAGTAGGCCCAAAACAGATTTGTTAACCTATCTGGGG[AG]GGAGAAAAAAGCCAG AACTTTATAAATTGTCCTCAGTAAGTTTGCTAAGACACTGAGGAG		
82001 I		A	CCATTGTCATCTTTCCAAACTTGTTTCTGAAAGGCATCACATT		
82001 P	G	A	ATGACGTGGCAGACGGAGAGGGGATGCTGY		
82001 P	A	A	CGCGCCGAGGAGAGAGGGGATGCTGY		
82001 T	G	A	CTGTCAGCATCCCCTCTCCATGTGATGCCTTTCAGAAACAAGTTTGGAAAGATGACAATGGCG		
82001 T	A	A	CTGTCAGCATCCCCTCTCTATGTGATGCCTTTCAGAAACAAGTTTGGAAAGATGACAATGGCG		
82001 IS	[GA]		TGTGTATTGTGGCTGACGCCATTGTCATCTTTCCAAACTTGTTTCTGAAAGGCATCACAT[GA]GAGAGGGGATGCTGA CAGGGATGACACAGTCCCAGCTCCAGAAACACCGTCAGCTGAACC		
82004 I		S	AAAGTGGGCTTATTACTTGGGCATTATAGAGAAAATACATTTCTA		
82004 P	A	S	CGCGCCGAGGTGATTCATTTTCAGGATGTTAAAGY		
82004 P	G	S	ATGACGTGGCAGACCGATTCATTTTCAGGATGTTAAAY		
82004 T	A	S	AAAGCTTTAACATCCTGAAAATGAATCAAGAAATGTATTTTCTCTATAATGCCCAAGTAATAAGCCCACTTTTC		
82004 T	G	S	AAAGCTTTAACATCCTGAAAATGAATCGAGAAATGTATTTTCTCTATAATGCCCAAGTAATAAGCCCACTTTTC		
82004 IS	[AG]		AAATATCTGAAATAGCAGAGTCACAAACACAGCAAAGCTTTAACATCCTGAAAATGAATC[AG]AGAAATGTATTTTCTCT ATAATGCCCAAGTAATAAGCCCACTTTTCAGTTGAATGGATAA		
82024 I		S	GGACAGCAATCTTTGGAGTTAATTAGCTGGGTTAAAACCAGATT		
82024 P	C	S	ATGACGTGGCAGACGGGAAGGAACCTTTAACTTY		
82024 P	T	S	CGCGCCGAGGAGGAAGGAACCTTTAACTTCY		
82024 T	C	S	CTTTGAAGTTAAAGGTTCCTTCCCATCTGGTTTTAACCCAGCTAATTAACTCCAAAGATTGCTGTCCAG		
82024 T	T	S	CTTTGAAGTTAAAGGTTCCTTCCTATCTGGTTTTAACCCAGCTAATTAACTCCAAAGATTGCTGTCCAG		
82024 IS	[CT]		CTCCAAGGGCCTTTTCTCCTCAGCTGGGCCTCTCTAGCTTTGAAGTTAAAGGTTCCTTCC[CT]ATCTGGTTTTAACCCA GCTAATTAACTCCAAAGATTGCTGTCCAGGGCACAGACTGACCA		
82028 I		A	GGGTGCAGAGGGAGGCAGCGGT		
82028 P	A	A	CGCGCCGAGGATCTGAGTGGTCCCCTY		
82028 P	G	A	ATGACGTGGCAGACGTCTGAGTGGTCCCCY		
82028 T	A	A	AGCCAGGGGACCACTCAGATCCGCTGCCTCCCTCTGCACCCTC		
82028 T	G	A	AGCCAGGGGACCACTCAGACCCGCTGCCTCCCTCTGCACCCTC		
82028 IS	[AG]		GAAAGGAGGCGGGGTCAGAGCCCCCTCCCGAGTGGGAGAGGGTGCAGAGGGAGGCAGCGG[AG]TCTGAGTGGTCC CCTGGCTCAGGGCCAAAATGAGCAAACAGGTCCAAGGGAGTTTTGCCT		
82051 I		S	GACCCAATGAGGGGCTCAGGGTTTCCAA		
82051 P	G	S	ATGACGTGGCAGACCTCAATGACATCGATGGCY		
82051 P	A	S	CGCGCCGAGGTTCAATGACATCGATGGCY		
82051 T	G	S	GATCGCCATCGATGTCATTGAGTGGAAACCCTGAGCCCCTCATTGGGTCAG		
82051 T	A	S	GATCGCCATCGATGTCATTGAATGGAAACCCTGAGCCCCTCATTGGGTCAG		
82051 IS	[GA]		CAAGGCTTATGAGGGCGAGGCCTTATAGAAGGTGACCCAGATCGCCATCGATGTCATTGA[GA]TGGAAACCCTGAGC CCCTCATTGGGTCAGACCTGATCAGCCACCTCTGCACCTGAATAAA		
82055 I		A	GGGCACAGTCTTAGCCCATAGGCCCAT		
82055 P	G	A	ATGACGTGGCAGACGTCGCAGCTCTGGGY		
82055 P	A	A	CGCGCCGAGGATCGCAGCTCTGGGY		
82055 T	G	A	CTTTCCCAGAGCTGCGACTGGGCCTATGGGCTAAGACTGTGCCCCG		
82055 T	A	A	CTTTCCCAGAGCTGCGATTGGGCCTATGGGCTAAGACTGTGCCCCG		
82055 IS	[GA]		GTTTAAGCAACAGATGTTGGAGCTGTTATGCCCGGGGCACAGTCTTAGCCCATAGGCCCA[GA]TCGCAGCTCTGGGA AAGGGAGAGATGGGAGGGAGAGACAGAGGACCCCGATTTGGAGGAA		
82069 I		S	CCAATACATCTGGGGACCTCTCAGAGGCAGAATAGTCA		
82069 P	A	S	CGCGCCGAGGTGAAGGCTTGTTATGGCY		
82069 P	G	S	ATGACGTGGCAGACCGAAGGCTTGTTATGGCY		
82069 T	A	S	TTGGGCCATAACAAGCCTTCAGACTATTCTGCCTCTGAGAGGTCCCCAGATGTATTGGAG		
82069 T	G	S	TTGGGCCATAACAAGCCTTCGGACTATTCTGCCTCTGAGAGGTCCCCAGATGTATTGGAG		
82069 IS	[AG]		CTGCCATTTAAATCTTCCCCTCTTGTATTTTCTTTGAACTTTGGGCCATAACAAGCCTTC[AG]GACTATTCTGCCTCTGA GAGGTCCCCAGATGTATTGGAGAAGCTGTGGGTTCGGATGTCT		
82087 I		S	GCTCCTGAGGAAAGGCCCACCCCCT		
82087 P	G	S	CGCGCCGAGGCCCAATCTCAACAGCATCY		
82087 P	C	S	ATGACGTGGCAGACGCCAATCTCAACAGCATY		
82087 T	G	S	AGCTGATGCTGTTGAGATTGGGGGGGGTGGGCCTTTCCTCAGGAGCCC		
82087 T	C	S	AGCTGATGCTGTTGAGATTGGCGGGGGTGGGCCTTTCCTCAGGAGCCC		
82087 IS	[GC]		CTTCTTAGTAGGGCCTTAGAGTCACCCAACAACTCCCAGAGCTGATGCTGTTGAGATTGG[GC]GGGGGTGGGCCTTT CCTCAGGAGCCCCCACTGTTGGAATACCTGGAGGGTGTGAAACCGC		
82088 I		A	CTGGGGGCAGGCAGGAAAGCCTT		
82088 P	G	A	ATGACGTGGCAGACGCCAGGAATGAGTGAAGY		
82088 P	A	A	CGCGCCGAGGACCAGGAATGAGTGAAGAY		
82088 T	G	A	ACCTTCTTCACTCATTCCTGGCAGGCTTTCCTGCCTGCCCCCAGCT		
82088 T	A	A	ACCTTCTTCACTCATTCCTGGTAGGCTTTCCTGCCTGCCCCCAGCT		
82088 IS	[GA]		TTGTGCAGGGCGCCAAGGGGGTGGTGAGGCCAGCCCAGCTGGGGGCAGGCAGGAAAGCCT[GA]CCAGGAATGAGT GAAGAAGGTAGAGCTGTGTTGTCCCCTCTGCCTCCCAGGTACTCATTG		
82092 I		S	AGAATACTGCAATGAAAGCTTCGAGCTATACACCTAAAGTTGAAGGT		
82092 P	C	S	ATGACGTGGCAGACGGAGTCCTATTTGCAAGTCY		
82092 P	T	S	CGCGCCGAGGAGAGTCCTATTTGCAAGTCY		

FIGURE 129D

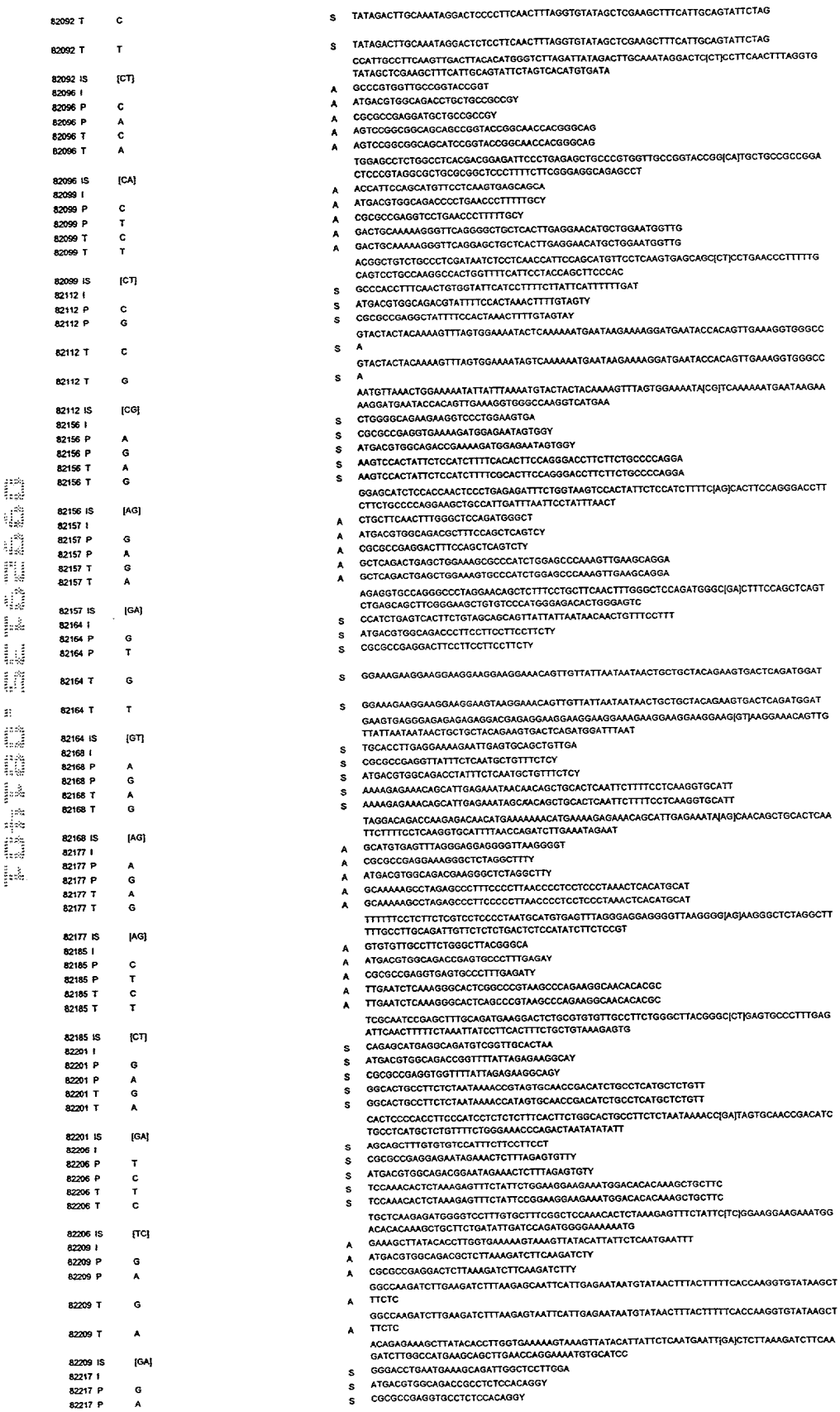

82092 T C
S TATAGACTTGCAAATAGGACTCCCCTTCAACTTTAGGTGTATAGCTCGAAGCTTTCATTGCAGTATTCTAG
82092 T T
S TATAGACTTGCAAATAGGACTCTCCTTCAACTTTAGGTGTATAGCTCGAAGCTTTCATTGCAGTATTCTAG
CCATTGCCTTCAAGTTGACTTACACATGGGTCTTAGATTATAGACTTGCAAATAGGACTC[CT]CCTTCAACTTTAGGTG
TATAGCTCGAAGCTTTCATTGCAGTATTCTAGTCACATGTGATA
82092 IS [CT]
82096 I
A GCCCGTGGTTGCCGGTACCGGT
82096 P C
A ATGACGTGGCAGACCTGCTGCCGCCGY
82096 P A
A CGCGCCGAGGATGCTGCCGCCGY
82096 T C
A AGTCCGGCGGCAGCAGCCGGTACCGGCAACCACGGGCAG
82096 T A
A AGTCCGGCGGCAGCATCCGGTACCGGCAACCACGGGCAG
TGGAGCCTCTGGCCTCACGACGGAGATTCCCTGAGAGCTGCCCGTGGTTGCCGGTACCGG[CA]TGCTGCCGCCGGA
CTCCCGTAGGCGCTGCGCGGCTCCCTTTTCTTCGGGAGGCAGAGCCT
82096 IS [CA]
82099 I
A ACCATTCCAGCATGTTCCTCAAGTGAGCAGCA
82099 P C
A ATGACGTGGCAGACCCCTGAACCCTTTTTGCY
82099 P T
A CGCGCCGAGGTCCTGAACCCTTTTTGCY
82099 T C
A GACTGCAAAAAGGGTTCAGGGGCTGCTCACTTGAGGAACATGCTGGAATGGTTG
82099 T T
A GACTGCAAAAAGGGTTCAGGAGCTGCTCACTTGAGGAACATGCTGGAATGGTTG
ACGGCTGTCTGCCCTCGATAATCTCCTCAACCATTCCAGCATGTTCCTCAAGTGAGCAGC[CT]CCTGAACCCTTTTTG
CAGTCCTGCCAAGGCCACTGGTTTTCATTCCTACCAGCTTCCCAC
82099 IS [CT]
82112 I
S GCCCACCTTTCAACTGTGGTATTCATCCTTTTCTTATTCATTTTTTGAT
82112 P C
S ATGACGTGGCAGACGTATTTTCCACTAAACTTTTGTAGTY
82112 P G
S CGCGCCGAGGCTATTTTCCACTAAACTTTTGTAGTAY
GTACTACTACAAAAGTTTAGTGGAAAATACTCAAAAAATGAATAAGAAAAGGATGAATACCACAGTTGAAAGGTGGGCC
82112 T C
S A
GTACTACTACAAAAGTTTAGTGGAAAATAGTCAAAAAATGAATAAGAAAAGGATGAATACCACAGTTGAAAGGTGGGCC
82112 T G
S A
AATGTTAAACTGGAAAAATATTATTTAAAATGTACTACTACAAAAGTTTAGTGGAAAATA[CG]TCAAAAAATGAATAAGAA
AAGGATGAATACCACAGTTGAAAGGTGGGCCAAGGTCATGAA
82112 IS [CG]
82156 I
S CTGGGGCAGAAGAAGGTCCCTGGAAGTGA
82156 P A
S CGCGCCGAGGTGAAAAGATGGAGAATAGTGGY
82156 P G
S ATGACGTGGCAGACCGAAAAGATGGAGAATAGTGGY
82156 T A
S AAGTCCACTATTCTCCATCTTTTCACACTTCCAGGGACCTTCTTCTGCCCCAGGA
82156 T G
S AAGTCCACTATTCTCCATCTTTTCGCACTTCCAGGGACCTTCTTCTGCCCCAGGA
GGAGCATCTCCACCAACTCCCTGAGAGATTTCTGGTAAGTCCACTATTCTCCATCTTTTC[AG]CACTTCCAGGGACCTT
CTTCTGCCCCAGGAAGCTGCCATTGATTTAATTCCTATTTAACT
82156 IS [AG]
82157 I
A CTGCTTCAACTTTGGGCTCCAGATGGGCT
82157 P G
A ATGACGTGGCAGACGCTTTCCAGCTCAGTCY
82157 P A
A CGCGCCGAGGACTTTCCAGCTCAGTCTY
82157 T G
A GCTCAGACTGAGCTGGAAAGCGCCCATCTGGAGCCCAAAGTTGAAGCAGGA
82157 T A
A GCTCAGACTGAGCTGGAAAGTGCCCATCTGGAGCCCAAAGTTGAAGCAGGA
AGAGGTGCCAGGGCCCTAGGAACAGCTCTTTCCTGCTTCAACTTTGGGCTCCAGATGGGC[GA]CTTTCCAGCTCAGT
CTGAGCAGCTTCGGGAAGCTGTGTCCCATGGGAGACACTGGGAGTC
82157 IS [GA]
82164 I
S CCATCTGAGTCACTTCTGTAGCAGCAGTTATTATTAATAACAACTGTTTCCTTT
82164 P G
S ATGACGTGGCAGACCCTTCCTTCCTTCCTTCTY
82164 P T
S CGCGCCGAGGACTTCCTTCCTTCCTTCTY
82164 T G
S GGAAAGAAGGAAGGAAGGAAGGAAGGAAACAGTTGTTATTAATAATAACTGCTGCTACAGAAGTGACTCAGATGGAT
82164 T T
S GGAAAGAAGGAAGGAAGGAAGTAAGGAAACAGTTGTTATTAATAATAACTGCTGCTACAGAAGTGACTCAGATGGAT
GAAGTGAGGGAGAGAGAGGACGAGAGGAAGGAAGGAAGGAAAGAAGGAAGGAAGGAAG[GT]AAGGAAACAGTTG
TTATTAATAATAACTGCTGCTACAGAAGTGACTCAGATGGATTTAAT
82164 IS [GT]
82168 I
S TGCACCTTGAGGAAAAGAATTGAGTGCAGCTGTTGA
82168 P A
S CGCGCCGAGGTTATTTCTCAATGCTGTTTCTCY
82168 P G
S ATGACGTGGCAGACCTATTTCTCAATGCTGTTTCTCY
82168 T A
S AAAAGAGAAACAGCATTGAGAAATAACAACAGCTGCACTCAATTCTTTTCCTCAAGGTGCATT
82168 T G
S AAAAGAGAAACAGCATTGAGAAATAGCAACAGCTGCACTCAATTCTTTTCCTCAAGGTGCATT
TAGGACAGACCAAGAGACAACATGAAAAAAACATGAAAAGAGAAACAGCATTGAGAAATA[AG]CAACAGCTGCACTCAA
TTCTTTTCCTCAAGGTGCATTTTAACCAGATCTTGAAAATAGAAT
82168 IS [AG]
82177 I
A GCATGTGAGTTTAGGGAGGAGGGGTTAAGGGGT
82177 P A
A CGCGCCGAGGAAAGGGCTCTAGGCTTTY
82177 P G
A ATGACGTGGCAGACGAAGGGCTCTAGGCTTY
82177 T A
A GCAAAAAGCCTAGAGCCCTTTCCCCTTAACCCCTCCTCCCTAAACTCACATGCAT
82177 T G
A GCAAAAAGCCTAGAGCCCTTCCCCCTTAACCCCTCCTCCCTAAACTCACATGCAT
TTTTTTCCTCTTCTCGTCCTCCCCTAATGCATGTGAGTTTAGGGAGGAGGGGTTAAGGGG[AG]AAGGGCTCTAGGCTT
TTTGCCTTGCAGATTGTTCTCTCTGACTCTCCATATCTTCTCCGT
82177 IS [AG]
82185 I
A GTGTGTTGCCTTCTGGGCTTACGGGCA
82185 P C
A ATGACGTGGCAGACCGAGTGCCCTTTGAGAY
82185 P T
A CGCGCCGAGGTGAGTGCCCTTTGAGATY
82185 T C
A TTGAATCTCAAAGGGCACTCGGCCCGTAAGCCCAGAAGGCAACACACGC
82185 T T
A TTGAATCTCAAAGGGCACTCAGCCCGTAAGCCCAGAAGGCAACACACGC
TCGCAATCCGAGCTTTGCAGATGAAGGACTCTGCGTGTGTTGCCTTCTGGGCTTACGGGC[CT]GAGTGCCCTTTGAG
ATTCAACTTTTTCTAAATTATCCTTCACTTTCTGCTGTAAAGAGTG
82185 IS [CT]
82201 I
S CAGAGCATGAGGCAGATGTCGGTTGCACTAA
82201 P G
S ATGACGTGGCAGACCGGTTTTATTAGAGAAGGCAY
82201 P A
S CGCGCCGAGGTGGTTTTATTAGAGAAGGCAGY
82201 T G
S GGCACTGCCTTCTCTAATAAAACCGTAGTGCAACCGACATCTGCCTCATGCTCTGTT
82201 T A
S GGCACTGCCTTCTCTAATAAAACCATAGTGCAACCGACATCTGCCTCATGCTCTGTT
CACTCCCCACCTTCCCATCCTCTCTCTTTCACTTCTGGCACTGCCTTCTCTAATAAAACC[GA]TAGTGCAACCGACATC
TGCCTCATGCTCTGTTTTCTGGGAAACCCAGACTAATATATATT
82201 IS [GA]
82206 I
S AGCAGCTTTGTGTGTCCATTTCTTCCTTCCT
82206 P T
S CGCGCCGAGGAGAATAGAAACTCTTTAGAGTGTTY
82206 P C
S ATGACGTGGCAGACGGAATAGAAACTCTTTAGAGTGTY
82206 T T
S TCCAAACACTCTAAAGAGTTTCTATTCTGGAAGGAAGAAATGGACACACAAAGCTGCTTC
82206 T C
S TCCAAACACTCTAAAGAGTTTCTATTCCGGAAGGAAGAAATGGACACACAAAGCTGCTTC
TGCTCAAGAGATGGGGTCCTTTGTGCTTTCGGCTCCAAACACTCTAAAGAGTTTCTATTC[TC]GGAAGGAAGAAATGG
ACACACAAAGCTGCTTCTGATATTGATCCAGATGGGGAAAAAATG
82206 IS [TC]
82209 I
A GAAAGCTTATACACCTTGGTGAAAAAGTAAAGTTATACATTATTCTCAATGAATTT
82209 P G
A ATGACGTGGCAGACGCTCTTAAAGATCTTCAAGATCTY
82209 P A
A CGCGCCGAGGACTCTTAAAGATCTTCAAGATCTTY
GGCCAAGATCTTGAAGATCTTTAAGAGCAATTCATTGAGAATAATGTATAACTTTACTTTTTCACCAAGGTGTATAAGCT
82209 T G
A TTCTC
GGCCAAGATCTTGAAGATCTTTAAGAGTAATTCATTGAGAATAATGTATAACTTTACTTTTTCACCAAGGTGTATAAGCT
82209 T A
A TTCTC
ACAGAGAAAGCTTATACACCTTGGTGAAAAAGTAAAGTTATACATTATTCTCAATGAATT[GA]CTCTTAAAGATCTTCAA
GATCTTGGCCATGAAGCAGCTTGAACCAGGAAAATGTGCATCC
82209 IS [GA]
82217 I
S GGGACCTGAATGAAAGCAGATTGGCTCCTTGGA
82217 P G
S ATGACGTGGCAGACCGCCTCTCCACAGGY
82217 P A
S CGCGCCGAGGTGCCTCTCCACAGGY

FIGURE 129D

82217 T	G	S	CACCCCTGTGGAGAGGCGCCAAGGAGCCAATCTGCTTTCATTCAGGTCCCTC	
82217 T	A	S	CACCCCTGTGGAGAGGCACCAAGGAGCCAATCTGCTTTCATTCAGGTCCCTC	
			GAGGCAGGACTGAGGTCTCAGAGGAGAGGCTAAGCTTTGCCTCCACCCCTGTGGAGAGGC[GA]CCAAGGAGCCAAT	
82217 IS	[GA]		CTGCTTTCATTCAGGTCCCTCTTGGATATCTTGGCTTCATAACCTTG	
82226 I		S	AGGTCAATTCCTCCAGAGGAAAAAAAGTTATAACAATAAATTTATACCCT	
82226 P	T	S	CGCGCCGAGGATAGTACCTAATAATGCTGGCY	
82226 P	C	S	ATGACGTGGCAGACGTAGTACCTAATAATGCTGGCY	
82226 T	T	S	GTATGCCAGCATTATTAGGTACTATGGGTATAAATTTATTGTTATAACTTTTTTTCCTCTGGAGGAATTGACCTTT	
82226 T	C	S	GTATGCCAGCATTATTAGGTACTACGGGTATAAATTTATTGTTATAACTTTTTTTCCTCTGGAGGAATTGACCTTT	
			CTTTTTTTAAATTGGCATTTCATAAAGTGTGATGCTGTATGCCAGCATTATTAGGTACTA[TC]GGGTATAAATTTATTGT	
82226 IS	[TC]		TATAACTTTTTTTCCTCTGGAGGAATTGACCTTTTCTCCAACA	
82255 I		S	CATCAGGTAGCGGCAGCTTTTCTGGGGTAT	
82255 P	G	S	ATGACGTGGCAGACCAAACAACAAAATCCAGTGGY	
82255 P	T	S	CGCGCCGAGGAAAACAACAAAATCCAGTGGY	
82255 T	G	S	GGTGCCACTGGATTTTGTTGTTTGTACCCCAGAAAAGCTGCCGCTACCTGATGCT	
82255 T	T	S	GGTGCCACTGGATTTTGTTGTTTTTACCCCAGAAAAGCTGCCGCTACCTGATGCT	
			AAGTTGAAGGTGAAGTCTCAGCAGCCAGTGGCCAATGGGTGCCACTGGATTTTGTTGTTT[GT]TACCCCAGAAAAGCT	
82255 IS	[GT]		GCCGCTACCTGATGCTGCTACTTTTTTAATACTGTCGTTCAAGCT	
82292 I		A	CCACCGGGACCTGGCTGCCCC	
82292 P	G	A	ATGACGTGGCAGACGCAATGTGCTGGTGACY	
82292 P	T	A	CGCGCCGAGGTCAATGTGCTGGTGACTY	
82292 T	G	A	CCTCAGTCACCAGCACATTGCGGGCAGCCAGGTCCCGGTGGAT	
82292 T	T	A	CCTCAGTCACCAGCACATTGAGGGCAGCCAGGTCCCGGTGGAT	
			GTGTCCTGAGGCACCCAAGCCCCCGCTCCCTGCAGTGTATCCACCGGGACCTGGCTGCCC[GT]CAATGTGCTGGTG	
82292 IS	[GT]		ACTGAGGACAATGTGATGAAGATTGCTGACTTTGGGCTGGCCCGCGG	
82295 I		S	CTGAGGAATCAGTCCCACGTGGGCCAAA	
82295 P	A	S	CGCGCCGAGGTAGCAAGATCAACGTGCY	
82295 P	G	S	ATGACGTGGCAGACCAGCAAGATCAACGTGCY	
82295 T	A	S	TTAAGCACGTTGATCTTGCTATTGGCCCACGTGGGACTGATTCCTCAGAT	
82295 T	G	S	TTAAGCACGTTGATCTTGCTGTTGGCCCACGTGGGACTGATTCCTCAGAT	
			TTCCTCCCTTTTCTGGGAACTAAAGGGATAGTTGCCTTTATTAAGCACGTTGATCTTGCT[AG]TTGGCCCACGTGGGA	
82295 IS	[AG]		CTGATTCCTCAGATGTTTCCACTCCTGGGCCCAGGCCACAGGTTC	
82405 I		A	GCACACTGTGAGCTGAAGCTGAAGTTTCCCAAAGT	
82405 P	G	A	ATGACGTGGCAGACGGTGAGTACAGTCCATGY	
82405 P	A	A	CGCGCCGAGGAGTGAGTACAGTCCATGGY	
82405 T	G	A	GGTACCATGGACTGTACTCACCCTTTGGGAAACTTCAGCTTCAGCTCACAGTGTGCCT	
82405 T	A	A	GGTACCATGGACTGTACTCACTCTTTGGGAAACTTCAGCTTCAGCTCACAGTGTGCCT	
			AGTTTGTTCCTTCAGAGCAGCTGAAGGCACACTGTGAGCTGAAGCTGAAGTTTCCCAAAG[GA]GTGAGTACAGTCCAT	
82405 IS	[GA]		GGTACCCAGCTCTGGGGCCTCCAAAGGCTCACACTGAATCACTTC	
82407 I		S	TCTGGAGAGGGTTGTCAAAATCAAAAGAGTTAAAATTCTGGAACTGAGT	
82407 P	G	S	ATGACGTGGCAGACCTAGAATAGAAGACAGAATTGAGGY	
82407 P	T	S	CGCGCCGAGGATAGAATAGAAGACAGAATTGAGGY	
82407 T	G	S	TTGACCTCAATTCTGTCTTCTATTCTAGCTCAGTTCCAGAATTTTAACTCTTTTGATTTTGACAACCCTCTCCAGAAA	
82407 T	T	S	TTGACCTCAATTCTGTCTTCTATTCTATCTCAGTTCCAGAATTTTAACTCTTTTGATTTTGACAACCCTCTCCAGAAA	
			GCAAGGAGAGAATATAAAAGTCTAGGAAGCATTTTGACCTCAATTCTGTCTTCTATTCTA[GT]CTCAGTTCCAGAATTTT	
82407 IS	[GT]		AACTCTTTTGATTTTGACAACCCTCTCCAGAAACTGTATCTAT	
82408 I		A	CTCAGTTCCAGAATTTTAACTCTTTTGATTTTGACAACCCTT	
82408 P	C	A	ATGACGTGGCAGACCTCCAGAAACTGTATCTATTTCCY	
82408 P	A	A	CGCGCCGAGGATCCAGAAACTGTATCTATTTCCY	
82408 T	C	A	ACAGGGAAATAGATACAGTTTCTGGAGAGGGTTGTCAAAATCAAAAGAGTTAAAATTCTGGAACTGAGCT	
82408 T	A	A	ACAGGGAAATAGATACAGTTTCTGGATAGGGTTGTCAAAATCAAAAGAGTTAAAATTCTGGAACTGAGCT	
			ATTCTGTCTTCTATTCTAGCTCAGTTCCAGAATTTTAACTCTTTTGATTTTGACAACCCT[CA]TCCAGAAACTGTATCTAT	
82408 IS	[CA]		TTCCCTGTTCTGATTGGTGGTACAATAGGTAAATTTAAGACT	
84165 I		S	TCTTCCCCTGGCCGGGTCACGAC	
84165 P	A	S	CGCGCCGAGGTGCCCTATTTATAGCTGAG	
84165 P	C	S	ATGACGTGGCAGACGGCCCTATTTATAGCTGAG	
84165 T	A	S	ACCCCTCAGCTATAAATAGGGCATCGTGACCCGGCCAGGGGAAGAAG	
84165 T	C	S	ACCCCTCAGCTATAAATAGGGCCTCGTGACCCGGCCAGGGGAAGAAG	
			gcctgtgcacaggcagcctgggaacagctccatcccaccccctcagctataaatagggc[ac]tcgtgacccggccaggggaagaagctgccgttgttctgggtactacagcag	
84165 IS	[ac]		aaggtaagc	
84166 I		S	ACCCTGTGCAAAGGCCTCTAATAGACACTGGGT	
84166 P	C	S	ATGACGTGGCAGACGAAAACACACAAGCAAGTG	
84166 P	T	S	CGCGCCGAGGAAAAACACACAAGCAAGTG	
84166 T	C	S	TTTTCACTTGCTTGTGTGTTTTCCCCAGTGTCTATTAGAGGCCTTTGCACAGGGTAG	
84166 T	T	S	TTTTCACTTGCTTGTGTGTTTTCCCAGTGTCTATTAGAGGCCTTTGCACAGGGTAG	
			agtctcccagctacactggaaactccagaaggcactttcactgcttgtgtgtttt[ct]cccagtgtctattagaggcctttgcacagggtaggctcttggagcagctgaaggtcaca	
84166 IS	[ct]			
84180 I		A	CTGCTCTGGCCCAGGCAGGTTACCT	
84180 P	A	A	CGCGCCGAGGAGGTCCTAGCTATGGAC	
84180 P	G	A	ATGACGTGGCAGACGGGTCCTAGCTATGGAC	
84180 T	A	A	TCATGTCCATAGCTAGGACCTGGTAACCTGCCTGGGCCAGAGCAGGG	
84180 T	G	A	TCATGTCCATAGCTAGGACCCGGTAACCTGCCTGGGCCAGAGCAGGG	
			accatgctggagtgtgcctgtttgtttttctagatccctgctctggcccaggcaggttacc[ag]ggtcctagctatggacatgaaaggctatggagagtcatctgctcctcccggtgggtg	
84180 IS	[ag]		tg	
84190 I		A	GCTACGGTGACGTGCCCCCAGGACT	
84190 P	C	A	CGCGCCGAGGCCGCATTCAAAGAGGTCY	
84190 P	G	A	ATGACGTGGCAGACGCGCATTCAAAGAGGTY	
84190 T	C	A	GCCAGACCTCTTTGAATGCGGGTCCTGGGGGCACGTCACCGTAGCTC	
84190 T	G	A	GCCAGACCTCTTTGAATGCGCGTCCTGGGGGCACGTCACCGTAGCTC	
			cagctccggcctggtgaggctggggaggacttgagctacggtgacgtgccccaggac[cg]cgcattcaaagaggtctggcaagtgatcctgaacgccaagggcctgggtca	
84190 IS	[cg]		gacaaagaa	IRS1
84213 I		A	GCTGGACTCTCCCTCCTGACATTAGCACCATTTA	
84213 P	C	A	ATGACGTGGCAGACCTCCTCTGGCTTCGG	
84213 P	T	A	CGCGCCGAGGTTCCTCTGGCTTCGG	
84213 T	C	A	ATTTCCGAAGCCAGAGGAGAAATGGTGCTAATGTCAGGAGGGAGAGTCCAGCAG	
84213 T	T	A	ATTTCCGAAGCCAGAGGAAAAATGGTGCTAATGTCAGGAGGGAGAGTCCAGCAG	
			attccctggtagctggactttctgctgctggactctcccctcctgacattagcaccatt[ct]tcctctggcttcggaaatgcttacggaaaggtgaggaagtttatgaatgtacttcaaaa	
84213 IS	[ct]			
84228 I		S	GGCTGGACCTCTTTGTTGTGGGGCCT	
84228 P	C	S	ATGACGTGGCAGACGCTCTCTGCTGGGGY	
84228 P	T	S	CGCGCCGAGGACTCTCTGCTGGGGAY	
84228 T	C	S	TAGCTCCCCAGCAGAGAGCGGCCCCACAACAAAAGAGGTCCAGCCCC	
84228 T	T	S	TAGCTCCCCAGCAGAGAGTGGCCCCACAACAAAAGAGGTCCAGCCCC	

FIGURE 129D

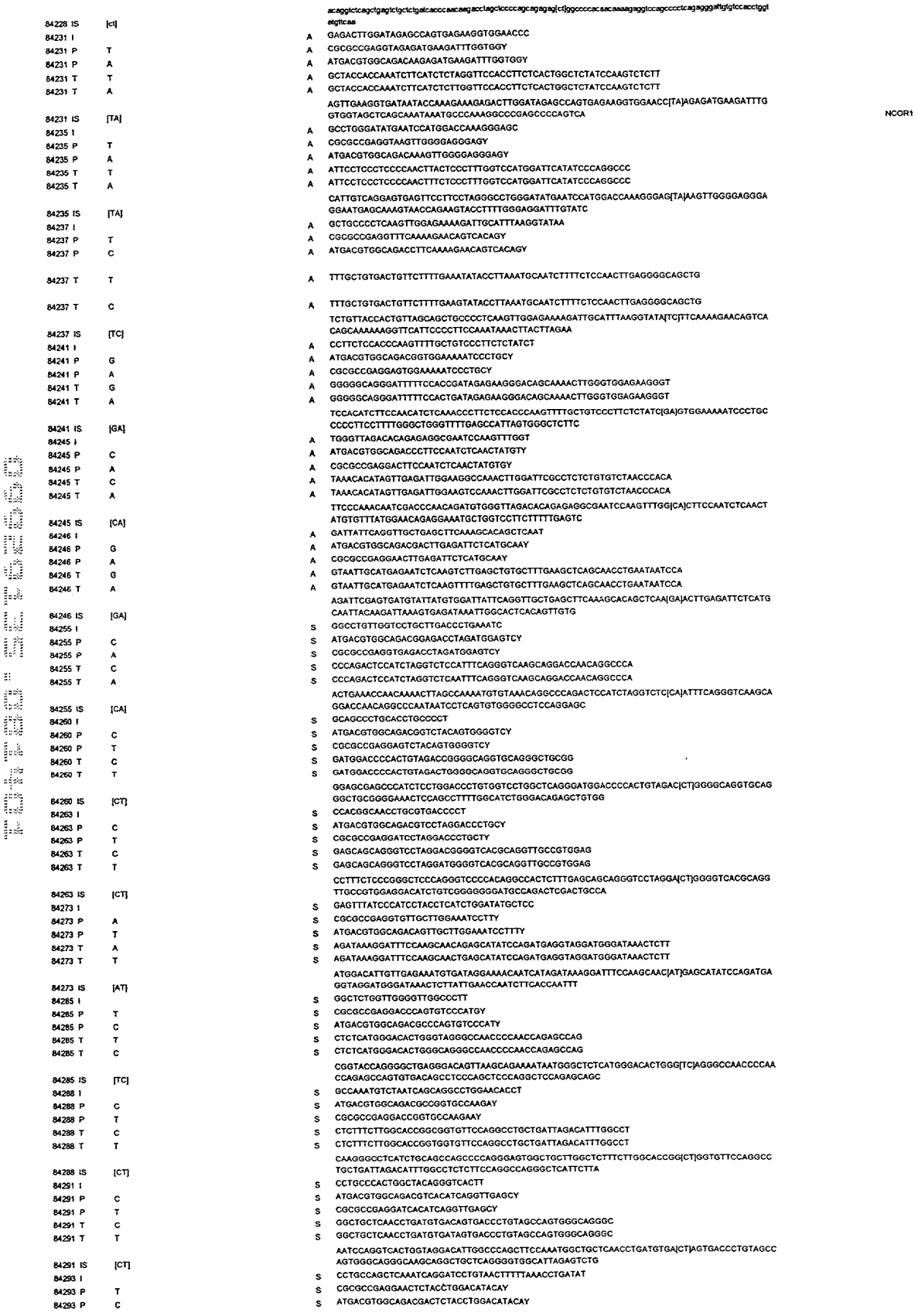

acaggctcagctgagtctgctctgatcacccaacaagacctagctcccagcagagag[ct]ggccccacaacaaagaggtccagcccctcagagggatgtgtgtccacctggt
atgttcaa
84228 IS [ct]
84231 I A GAGACTTGGATAGAGCCAGTGAGAAGGTGGAACCC
84231 P T A CGCGCCGAGGTAGAGATGAAGATTTGGTGGY
84231 P A A ATGACGTGGCAGACAAGAGATGAAGATTTGGTGGY
84231 T T A GCTACCACCAAATCTTCATCTCTAGGTTCCACCTTCTCACTGGCTCTATCCAAGTCTCTT
84231 T A A GCTACCACCAAATCTTCATCTCTTGGTTCCACCTTCTCACTGGCTCTATCCAAGTCTCTT
AGTTGAAGGTGATAATACCAAAGAAAGAGACTTGGATAGAGCCAGTGAGAAGGTGGAACC[TA]AGAGATGAAGATTTG
84231 IS [TA] GTGGTAGCTCAGCAAATAAATGCCCAAAGGCCCGAGCCCCAGTCA NCOR1
84235 I A GCCTGGGATATGAATCCATGGACCAAAGGGAGC
84235 P T A CGCGCCGAGGTAAGTTGGGGAGGGAGY
84235 P A A ATGACGTGGCAGACAAAGTTGGGGAGGGAGY
84235 T T A ATTCCTCCCTCCCCAACTTACTCCCTTTGGTCCATGGATTCATATCCCAGGCCC
84235 T A A ATTCCTCCCTCCCCAACTTTCTCCCTTTGGTCCATGGATTCATATCCCAGGCCC
CATTGTCAGGAGTGAGTTCCTTCCTAGGGCCTGGGATATGAATCCATGGACCAAAGGGAG[TA]AAGTTGGGGAGGGA
84235 IS [TA] GGAATGAGCAAAGTAACCAGAAGTACCTTTTGGGAGGATTTGTATC
84237 I A GCTGCCCCTCAAGTTGGAGAAAAGATTGCATTTAAGGTATAA
84237 P T A CGCGCCGAGGTTTCAAAAGAACAGTCACAGY
84237 P C A ATGACGTGGCAGACCTTCAAAAGAACAGTCACAGY
84237 T T A TTTGCTGTGACTGTTCTTTTGAAATATACCTTAAATGCAATCTTTTCTCCAACTTGAGGGGCAGCTG
84237 T C A TTTGCTGTGACTGTTCTTTTGAAGTATACCTTAAATGCAATCTTTTCTCCAACTTGAGGGGCAGCTG
TCTGTTACCACTGTTAGCAGCTGCCCCTCAAGTTGGAGAAAAGATTGCATTTAAGGTATA[TC]TTCAAAAGAACAGTCA
84237 IS [TC] CAGCAAAAAAGGTTCATTCCCCCTTCCAAATAAACTTACTTAGAA
84241 I A CCTTCTCCACCCAAGTTTTGCTGTCCCTTCTCTATCT
84241 P G A ATGACGTGGCAGACGGTGGAAAAATCCCTGCY
84241 P A A CGCGCCGAGGAGTGGAAAAATCCCTGCY
84241 T G A GGGGGCAGGGATTTTTCCACCGATAGAGAAGGGACAGCAAAACTTGGGTGGAGAAGGGT
84241 T A A GGGGGCAGGGATTTTTCCACTGATAGAGAAGGGACAGCAAAACTTGGGTGGAGAAGGGT
TCCACATCTTCCAACATCTCAAACCCTTCTCCACCCAAGTTTTGCTGTCCCTTCTCTATC[GA]GTGGAAAAATCCCTGC
84241 IS [GA] CCCCTTCCTTTTGGGCTGGGTTTTGAGCCATTAGTGGGCTCTTC
84245 I A TGGGTTAGACACAGAGAGGCGAATCCAAGTTTGGT
84245 P C A ATGACGTGGCAGACCCTTCCAATCTCAACTATGTY
84245 P A A CGCGCCGAGGACTTCCAATCTCAACTATGTGY
84245 T C A TAAACACATAGTTGAGATTGGAAGGCCAAACTTGGATTCGCCTCTCTGTGTCTAACCCACA
84245 T A A TAAACACATAGTTGAGATTGGAAGTCCAAACTTGGATTCGCCTCTCTGTGTCTAACCCACA
TTCCCAAACAATCGACCCAACAGATGTGGGTTAGACACAGAGAGGCGAATCCAAGTTTGG[CA]CTTCCAATCTCAACT
84245 IS [CA] ATGTGTTTATGGAACAGAGGAAATGCTGGTCCTTCTTTTTGAGTC
84246 I A GATTATTCAGGTTGCTGAGCTTCAAAGCACAGCTCAAT
84246 P G A ATGACGTGGCAGACGACTTGAGATTCTCATGCAAY
84246 P A A CGCGCCGAGGAACTTGAGATTCTCATGCAAY
84246 T G A GTAATTGCATGAGAATCTCAAGTCTTGAGCTGTGCTTTGAAGCTCAGCAACCTGAATAATCCA
84246 T A A GTAATTGCATGAGAATCTCAAGTTTTGAGCTGTGCTTTGAAGCTCAGCAACCTGAATAATCCA
AGATTCGAGTGATGTATTATGTGGATTATTCAGGTTGCTGAGCTTCAAAGCACAGCTCAA[GA]ACTTGAGATTCTCATG
84246 IS [GA] CAATTACAAGATTAAAGTGAGATAAATTGGCACTCACAGTTGTG
84255 I S GGCCTGTTGGTCCTGCTTGACCCTGAAATC
84255 P C S ATGACGTGGCAGACGGAGACCTAGATGGAGTCY
84255 P A S CGCGCCGAGGTGAGACCTAGATGGAGTCY
84255 T C S CCCAGACTCCATCTAGGTCTCCATTTCAGGGTCAAGCAGGACCAACAGGCCCA
84255 T A S CCCAGACTCCATCTAGGTCTCAATTTCAGGGTCAAGCAGGACCAACAGGCCCA
ACTGAAACCAACAAAACTTAGCCAAAATGTGTAAACAGGCCCAGACTCCATCTAGGTCTC[CA]ATTTCAGGGTCAAGCA
84255 IS [CA] GGACCAACAGGCCCAATAATCCTCAGTGTGGGGCCTCCAGGAGC
84260 I S GCAGCCCTGCACCTGCCCCT
84260 P C S ATGACGTGGCAGACGGTCTACAGTGGGGTCY
84260 P T S CGCGCCGAGGAGTCTACAGTGGGGTCY
84260 T C S GATGGACCCCACTGTAGACCGGGGCAGGTGCAGGGCTGCGG
84260 T T S GATGGACCCCACTGTAGACTGGGGCAGGTGCAGGGCTGCGG
GGAGCGAGCCCATCTCCTGGACCCTGTGGTCCTGGCTCAGGGATGGACCCCACTGTAGAC[CT]GGGGCAGGTGCAG
84260 IS [CT] GGCTGCGGGGAAACTCCAGCCTTTTGGCATCTGGGACAGAGCTGTGG
84263 I S CCACGGCAACCTGCGTGACCCCT
84263 P C S ATGACGTGGCAGACGTCCTAGGACCCTGCY
84263 P T S CGCGCCGAGGATCCTAGGACCCTGCTY
84263 T C S GAGCAGCAGGGTCCTAGGACGGGGTCACGCAGGTTGCCGTGGAG
84263 T T S GAGCAGCAGGGTCCTAGGATGGGGTCACGCAGGTTGCCGTGGAG
CCTTTCTCCCGGGCTCCCAGGGTCCCCACAGGCCACTCTTTGAGCAGCAGGGTCCTAGGA[CT]GGGGTCACGCAGG
84263 IS [CT] TTGCCGTGGAGGACATCTGTCGGGGGGGATGCCAGACTCGACTGCCA
84273 I S GAGTTTATCCCATCCTACCTCATCTGGATATGCTCC
84273 P A S CGCGCCGAGGTGTTGCTTGGAAATCCTTY
84273 P T S ATGACGTGGCAGACAGTTGCTTGGAAATCCTTTY
84273 T A S AGATAAAGGATTTCCAAGCAACAGAGCATATCCAGATGAGGTAGGATGGGATAAACTCTT
84273 T T S AGATAAAGGATTTCCAAGCAACTGAGCATATCCAGATGAGGTAGGATGGGATAAACTCTT
ATGGACATTGTTGAGAAATGTGATAGGAAAACAATCATAGATAAAGGATTTCCAAGCAAC[AT]GAGCATATCCAGATGA
84273 IS [AT] GGTAGGATGGGATAAACTCTTATTGAACCAATCTTCACCAATTT
84285 I S GGCTCTGGTTGGGGTTGGCCCTT
84285 P T S CGCGCCGAGGACCCAGTGTCCCATGY
84285 P C S ATGACGTGGCAGACGCCCAGTGTCCCATY
84285 T T S CTCTCATGGGACACTGGGTAGGGCCAACCCCAACCAGAGCCAG
84285 T C S CTCTCATGGGACACTGGGCAGGGCCAACCCCAACCAGAGCCAG
CGGTACCAGGGGCTGAGGGACAGTTAAGCAGAAAATAATGGGCTCTCATGGGACACTGGG[TC]AGGGCCAACCCCAA
84285 IS [TC] CCAGAGCCAGTGTGACAGCCTCCCAGCTCCCAGGCTCCAGAGCAGC
84288 I S GCCAAATGTCTAATCAGCAGGCCTGGAACACCT
84288 P C S ATGACGTGGCAGACGCCGGTGCCAAGAY
84288 P T S CGCGCCGAGGACCGGTGCCAAGAAY
84288 T C S CTCTTTCTTGGCACCGGCGGTGTTCCAGGCCTGCTGATTAGACATTTGGCCT
84288 T T S CTCTTTCTTGGCACCGGTGGTGTTCCAGGCCTGCTGATTAGACATTTGGCCT
CAAGGGCCTCATCTGCAGCCAGCCCCAGGGAGTGGCTGCTTGGCTCTTTCTTGGCACCGG[CT]GGTGTTCCAGGCC
84288 IS [CT] TGCTGATTAGACATTTGGCCTCTCTTCCAGGCCAGGGCTCATTCTTA
84291 I S CCTGCCCACTGGCTACAGGGTCACTT
84291 P C S ATGACGTGGCAGACGTCACATCAGGTTGAGCY
84291 P T S CGCGCCGAGGATCACATCAGGTTGAGCY
84291 T C S GGCTGCTCAACCTGATGTGACAGTGACCCTGTAGCCAGTGGGCAGGGC
84291 T T S GGCTGCTCAACCTGATGTGATAGTGACCCTGTAGCCAGTGGGCAGGGC
AATCCAGGTCACTGGTAGGACATTGGCCCAGCTTCCAAATGGCTGCTCAACCTGATGTGA[CT]AGTGACCCTGTAGCC
84291 IS [CT] AGTGGGCAGGGCAAGCAGGCTGCTCAGGGGTGGCATTAGAGTCTG
84293 I S CCTGCCAGCTCAAATCAGGATCCTGTAACTTTTTAAACCTGATAT
84293 P T S CGCGCCGAGGAACTCTACCTGGACATACAY
84293 P C S ATGACGTGGCAGACGACTCTACCTGGACATACAY

FIGURE 129D

84293 T	T	S	CCAGTGTATGTCCAGGTAGAGTTTATCAGGTTTAAAAAGTTACAGGATCCTGATTTGAGCTGGCAGGGT	
84293 T	C	S	CCAGTGTATGTCCAGGTAGAGTCTATCAGGTTTAAAAAGTTACAGGATCCTGATTTGAGCTGGCAGGGT	
84293 IS	[TC]		TCATCTAAGGAATGGAGTGGGAAGGCTCCTCCTAGTTTCCAGTGTATGTCCAGGTAGAGT[TC]TATCAGGTTTAAAAA GTTACAGGATCCTGATTTGAGCTGGCAGGGTTAAATATATGCCTT	
84339 I		S	ACTGTTGGTCCAGGCCATCCGGGTT	
84339 P	C	S	ATGACGTGGCAGACGTTCTTCATGCTGCGTY	
84339 P	T	S	CGCGCCGAGGATTCTTCATGCTGCGTTY	
84339 T	C	S	AGGGAACGCAGCATGAAGAACACCCGGATGGCCTGGACCAACAGTTC	
84339 T	T	S	AGGGAACGCAGCATGAAGAATACCCGGATGGCCTGGACCAACAGTTC	
84339 IS	[CT]		CGGCAACTGTGTCTCAGGCTCCCCTCGCAATTGCAGTGACAGGGAACGCAGCATGAAGAA[CT]ACCCGGATGGCCTG GACCAACAGTTCAGAGAGCAGAGAAGAGTGAGATTGCAGAGTCATT	
84372 I		S	CATGCGCGCGCGCACT	
84372 P	C	S	ATGACGTGGCAGACGCACACACACACACACY	
84372 P	T	S	CGCGCCGAGGACACACACACACACACY	
84372 T	C	S	GTGTGTGTGTGTGTGTGTGCGTGCGCGCGCGCGCATGTA	
84372 T	T	S	GTGTGTGTGTGTGTGTGTGTGTGCGCGCGCGCGCATGTA	
84372 IS	[CT]		TGGAAAAATATGTACCTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTG[CT]GTGCGCGCGCGCGC ATGTATACATATAGTATGTTGTAATATTAGCTTGTGATCTAGCATT	
84378 I		A	GCATTGGGAAGGATAATGGATGGCAGCCCAT	
84378 P	G	A	ATGACGTGGCAGACGCTTTTAAACATAATTTGCTTACACY	
84378 P	A	A	CGCGCCGAGGACTTTTAAACATAATTTGCTTACACY	
84378 T	G	A	TTCTGTGTAAGCAAATTATGTTTAAAAGCTGGGCTGCCATCCATTATCCTTCCCAATGCCC	
84378 T	A	A	TTCTGTGTAAGCAAATTATGTTTAAAAGTTGGGCTGCCATCCATTATCCTTCCCAATGCCC	
84378 IS	[GA]		GATATGTGGAAGAGATCAGCCTTGCCTGGGGCATTGGGAAGGATAATGGATGGCAGCCCA[GA]CTTTTAAACATAATT TGCTTACACAGAAATGTGAAGCAGATCTGTCAGGAAAATCAGTTG	
84396 I		S	CCTAACTGAAAGCAGCCAAGTCCCCTACATACTCATTATGTACC	
84396 P	C	S	ATGACGTGGCAGACGCCTTCTATAGATCCTGTTAGY	
84396 P	A	S	CGCGCCGAGGTCCTTCTATAGATCCTGTTAGTAY	
84396 T	C	S	TGCCTACTAACAGGATCTATAGAAGGCGTACATAATGAGTATGTAGGGGACTTGGCTGCTTTCAGTTAGGAA	
84396 T	A	S	TGCCTACTAACAGGATCTATAGAAGGAGTACATAATGAGTATGTAGGGGACTTGGCTGCTTTCAGTTAGGAA	
84396 IS	[CA]		GGGAGTGCATGCACACACATGCCCCCCTTTTTCTTGCCTACTAACAGGATCTATAGAAGG[CA]GTACATAATGAGTAT GTAGGGGACTTGGCTGCTTTCAGTTAGGAATGAGACACTGATATG	
84409 I		S	TCAAGCAACAAATCAACTCCACGAAGGGCTGTGT	
84409 P	T	S	CGCGCCGAGGAAACCATATCTGCCCGTY	
84409 P	C	S	ATGACGTGGCAGACGAACCATATCTGCCCGY	
84409 T	T	S	GGAAACGGGCAGATATGGTTTCACAGCCCTTCGTGGAGTTGATTTGTTGCTTGATC	
84409 T	C	S	GGAAACGGGCAGATATGGTTCCACAGCCCTTCGTGGAGTTGATTTGTTGCTTGATC	
84409 IS	[TC]		TTAGCTACTGGCTTGCCACTAGAGAGAGGCTCTCGGGAAAGGAAACGGGCAGATATGGTT[TC]CACAGCCCTTCGTG GAGTTGATTTGTTGCTTGATCCTGGGATGCTACAGATGCTTTAAAG	
84432 I		A	GTCCAGCAGCCCCAGCTCACAGCA	
84432 P	C	A	ATGACGTGGCAGACCTAGCCACATGTCACTGY	
84432 P	T	A	CGCGCCGAGGTTAGCCACATGTCACTGAY	
84432 T	C	A	CGCTTCAGTGACATGTGGCTAGGCTGTGAGCTGGGGCTGCTGGACAG	
84432 T	T	A	CGCTTCAGTGACATGTGGCTAAGCTGTGAGCTGGGGCTGCTGGACAG	
84432 IS	[CT]		GCATGCCGCTGCAGGGCCCTGGCCAGGAAGGAGCGCTGTCCAGCAGCCCCAGCTCACAGC[CT]TAGCCACATGTCA CTGAAGCGCTAACAATGCCAAGCCTCTCTAACCCAGAGGCTTTCTCA	
84451 I		A	CCGTCTTGCACGCACCCAGGCAA	
84451 P	C	A	ATGACGTGGCAGACCGAGCTAGATGCGTCAY	
84451 P	T	A	CGCGCCGAGGTGAGCTAGATGCGTCATY	
84451 T	C	A	AGGTATGACGCATCTAGCTCGTGCCTGGGTGCGTGCAAGACGGTT	
84451 T	T	A	AGGTATGACGCATCTAGCTCATGCCTGGGTGCGTGCAAGACGGTT	
84451 IS	[CT]		AAAAGCACGAACTTAAAAAAAACCATGTATTCTTTAAACCGTCTTGCACGCACCCAGGCA[CT]GAGCTAGATGCGTCAT ACCTTGCACCTACACCATCCACCTGAAAAATACAGTAAAATGAC	
84465 I		S	GTGACGGGTCCTGAGCCCAGTTCCAT	
84465 P	C	S	ATGACGTGGCAGACGAGGTCCAGTTTTATGCCY	
84465 P	T	S	CGCGCCGAGGAAGGTCCAGTTTTATGCCY	
84465 T	C	S	GGCAGGCATAAAACTGGACCTCTGGAACTGGGCTCAGGACCCGTCACTG	
84465 T	T	S	GGCAGGCATAAAACTGGACCTTTGGAACTGGGCTCAGGACCCGTCACTG	
84465 IS	[CT]		TGCAACAGGAGGGTGCCCAACATAAGAGGGCTGAATGAGGGCAGGCATAAAACTGGACCT[CT]TGGAACTGGGCTCA GGACCCGTCACTGCCTATACAGCCCCACGTGGAGAACCCACCACAT	
84475 I		A	AGCCCGCTGCCGCTGCGATATGA	
84475 P	T	A	CGCGCCGAGGTACACATGTCTTCCCACTY	
84475 P	C	A	ATGACGTGGCAGACCACACATGTCTTCCCACY	
84475 T	T	A	TGAGAGTGGGAAGACATGTGTACATATCGCAGCGGCAGCGGGCTTC	
84475 T	C	A	TGAGAGTGGGAAGACATGTGTGCATATCGCAGCGGCAGCGGGCTTC	
84475 IS	[TC]		CTCAGGGACTCTTGCCAGCTCATGAATAATATCGCTGAAGCCCGCTGCCGCTGCGATATG[TC]ACACATGTCTTCCCA CTCTCATCATCATAGTTGATTATGGACGGCCCCTGGTGATGGCTC	
84480 I		A	AAAATTCTTCGGTTCTTTCCCACAGGTGTGCATTTTTTAAAGTATCAGT	
84480 P	G	A	ATGACGTGGCAGACGTACAGAACAATTAATTTTATTCCTATTCY	
84480 P	A	A	CGCGCCGAGGATACAGAACAATTAATTTTATTCCTATTCY	
84480 T	G	A	CCTTGAATAGGAATAAAATTAATTGTTCTGTACCTGATACTTTAAAAAATGCACACCTGTGGGAAAGAACCGAAGAATT TTCT	
84480 T	A	A	CCTTGAATAGGAATAAAATTAATTGTTCTGTATCTGATACTTTAAAAAATGCACACCTGTGGGAAAGAACCGAAGAATTT TCT	
84480 IS	[GA]		ATAAGCCTTAAGAAAATTCTTCGGTTCTTTCCCACAGGTGTGCATTTTTTAAAGTATCAG[GA]TACAGAACAATTAATTT TATTCCTATTCAAGGTCTTTGTATACAGCCTTTAAAAAAAAAA	
84497 I		S	GTAGAAGGAGCACAGGACAACTCTCTTCACAA	
84497 P	G	S	ATGACGTGGCAGACCAAGGAAGCTGTGTGTTY	
84497 P	A	S	CGCGCCGAGGTAAGGAAGCTGTGTGTTTACY	
84497 T	G	S	TTGTGTAAACACACAGCTTCCTTGTGTGAAGAGAGTTGTCCTGTGCTCCTTCTACTG	
84497 T	A	S	TTGTGTAAACACACAGCTTCCTTATGTGAAGAGAGTTGTCCTGTGCTCCTTCTACTG	
84497 IS	[GA]		TAATGGGAGAATGTGGTTTTGATTCTGGGTGTTTGAATTGTGTAAACACACAGCTTCCTT[GA]TGTGAAGAGAGTTGTC CTGTGCTCCTTCTACTGTACTTTTTTTATTTTTTAATAGGAAAG	
84509 I		S	CCATGTGTAGGTATTGAAAAAGTTTGGAAGCACTGATCACCTGTTAT	
84509 P	C	S	ATGACGTGGCAGACGCATTGCCATTCCTCTACY	
84509 P	T	S	CGCGCCGAGGACATTGCCATTCCTCTACY	
84509 T	C	S	TGCAGTAGAGGAATGGCAATGCTAACAGGTGATCAGTGCTTCCAAACTTTTTCAATACCTACACATGGGA	
84509 T	T	S	TGCAGTAGAGGAATGGCAATGTTAACAGGTGATCAGTGCTTCCAAACTTTTTCAATACCTACACATGGGA	
84509 IS	[CT]		CCAAAAAGCTTTATATACATAGCTTTATACTATTTACATTGCAGTAGAGGAATGGCAATG[CT]TAACAGGTGATCAGTG CTTCCAAACTTTTTCAATACCTACACATGGGAGATCTAAAGAGT	CENPF
84524 I		A	TCTTCTTTCATGTGGGGAGTCACCCAAGTT	
84524 P	A	A	CGCGCCGAGGAGCACAATGGCTTTAGACY	
84524 P	G	A	ATGACGTGGCAGACGGCACAATGGCTTTAGAY	

FIGURE 129D

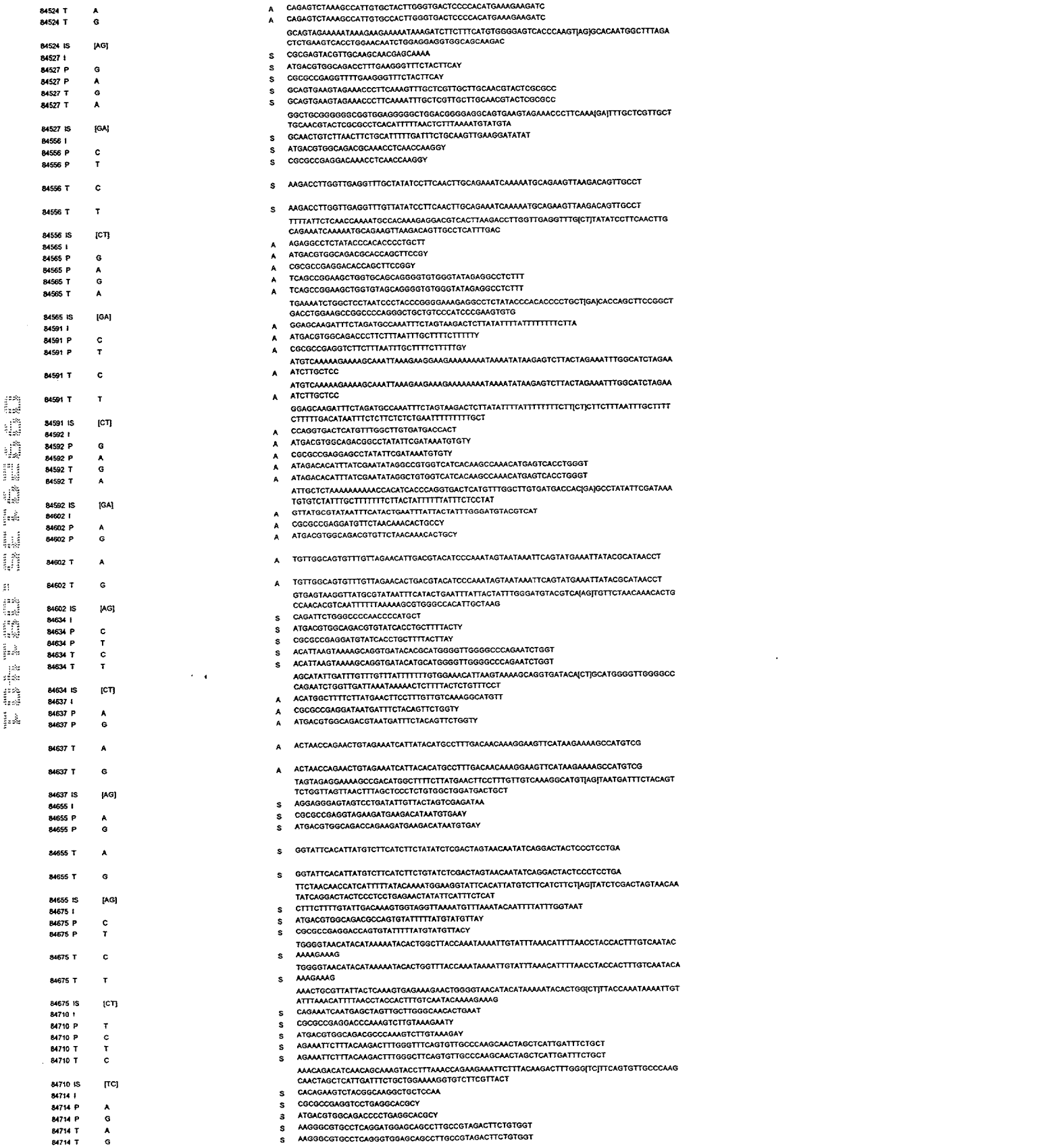

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84524 T G A CAGAGTCTAAAGCCATTGTGCCACTTGGGTGACTCCCCACATGAAAGAAGATC
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84524 IS [AG] CTCTGAAGTCACCTGGAACAATCTGGAGGAGGTGGCAGCAAGAC
84527 I S CGCGAGTACGTTGCAAGCAACGAGCAAAA
84527 P G S ATGACGTGGCAGACCTTTGAAGGGTTTCTACTTCAY
84527 P A S CGCGCCGAGGTTTTGAAGGGTTTCTACTTCAY
84527 T G S GCAGTGAAGTAGAAACCCTTCAAAGTTTGCTCGTTGCTTGCAACGTACTCGCGCC
84527 T A S GCAGTGAAGTAGAAACCCTTCAAAATTTGCTCGTTGCTTGCAACGTACTCGCGCC
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84527 IS [GA] TGCAACGTACTCGCGCCTCACATTTTTAACTCTTTAAAATGTATGTA
84556 I S GCAACTGTCTTAACTTCTGCATTTTTGATTTCTGCAAGTTGAAGGATATAT
84556 P C S ATGACGTGGCAGACGCAAACCTCAACCAAGGY
84556 P T S CGCGCCGAGGACAAACCTCAACCAAGGY
84556 T C S AAGACCTTGGTTGAGGTTTGCTATATCCTTCAACTTGCAGAAATCAAAAATGCAGAAGTTAAGACAGTTGCCT
84556 T T S AAGACCTTGGTTGAGGTTTGTTATATCCTTCAACTTGCAGAAATCAAAAATGCAGAAGTTAAGACAGTTGCCT
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84556 IS [CT] CAGAAATCAAAAATGCAGAAGTTAAGACAGTTGCCTCATTTGAC
84565 I A AGAGGCCTCTATACCCACACCCCTGCTT
84565 P G A ATGACGTGGCAGACGCACCAGCTTCCGY
84565 P A A CGCGCCGAGGACACCAGCTTCCGGY
84565 T G A TCAGCCGGAAGCTGGTGCAGCAGGGGTGTGGGTATAGAGGCCTCTTT
84565 T A A TCAGCCGGAAGCTGGTGTAGCAGGGGTGTGGGTATAGAGGCCTCTTT
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84565 IS [GA] GACCTGGAAGCCGGCCCCAGGGCTGCTGTCCCATCCCGAAGTGTG
84591 I A GGAGCAAGATTTCTAGATGCCAAATTTCTAGTAAGACTCTTATATTTTATTTTTTTTCTTA
84591 P C A ATGACGTGGCAGACCCTTCTTTAATTTGCTTTTCTTTTTY
84591 P T A CGCGCCGAGGTCTTCTTTAATTTGCTTTTCTTTTTGY
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84591 T C A ATCTTGCTCC
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84591 T T A ATCTTGCTCC
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84591 IS [CT] CTTTTTGACATAATTTCTCTTCTCTCTGAATTTTTTTTTGCT
84592 I A CCAGGTGACTCATGTTTGGCTTGTGATGACCACT
84592 P G A ATGACGTGGCAGACGGCCTATATTCGATAAATGTGTY
84592 P A A CGCGCCGAGGAGCCTATATTCGATAAATGTGTY
84592 T G A ATAGACACATTTATCGAATATAGGCCGTGGTCATCACAAGCCAAACATGAGTCACCTGGGT
84592 T A A ATAGACACATTTATCGAATATAGGCTGTGGTCATCACAAGCCAAACATGAGTCACCTGGGT
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84592 IS [GA] TGTGTCTATTTGCTTTTTTTCTTACTATTTTTTATTTCTCCTAT
84602 I A GTTATGCGTATAATTTCATACTGAATTTATTACTATTTGGGATGTACGTCAT
84602 P A A CGCGCCGAGGATGTTCTAACAAACACTGCCY
84602 P G A ATGACGTGGCAGACGTGTTCTAACAAACACTGCY
84602 T A A TGTTGGCAGTGTTTGTTAGAACATTGACGTACATCCCAAATAGTAATAAATTCAGTATGAAATTATACGCATAACCT
84602 T G A TGTTGGCAGTGTTTGTTAGAACACTGACGTACATCCCAAATAGTAATAAATTCAGTATGAAATTATACGCATAACCT
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84602 IS [AG] CCAACACGTCAATTTTTTAAAAAGCGTGGGCCACATTGCTAAG
84634 I S CAGATTCTGGGCCCCAACCCCATGCT
84634 P C S ATGACGTGGCAGACGTGTATCACCTGCTTTTACTY
84634 P T S CGCGCCGAGGATGTATCACCTGCTTTTACTTAY
84634 T C S ACATTAAGTAAAAGCAGGTGATACACGCATGGGGTTGGGGCCCAGAATCTGGT
84634 T T S ACATTAAGTAAAAGCAGGTGATACATGCATGGGGTTGGGGCCCAGAATCTGGT
AGCATATTGATTTGTTTGTTTATTTTTTTGTGGAAACATTAAGTAAAAGCAGGTGATACA[CT]GCATGGGGTTGGGGCC
84634 IS [CT] CAGAATCTGGTTGATTAAATAAAAACTCTTTTACTCTGTTTCCT
84637 I A ACATGGCTTTTCTTATGAACTTCCTTTGTTGTCAAAGGCATGTT
84637 P A A CGCGCCGAGGATAATGATTTCTACAGTTCTGGTY
84637 P G A ATGACGTGGCAGACGTAATGATTTCTACAGTTCTGGTY
84637 T A A ACTAACCAGAACTGTAGAAATCATTATACATGCCTTTGACAACAAAGGAAGTTCATAAGAAAAGCCATGTCG
84637 T G A ACTAACCAGAACTGTAGAAATCATTACACATGCCTTTGACAACAAAGGAAGTTCATAAGAAAAGCCATGTCG
TAGTAGAGGAAAAGCCGACATGGCTTTTCTTATGAACTTCCTTTGTTGTCAAAGGCATGT[AG]TAATGATTTCTACAGT
84637 IS [AG] TCTGGTTAGTTAACTTTAGCTCCCTCTGTGGCTGGATGACTGCT
84655 I S AGGAGGGAGTAGTCCTGATATTGTTACTAGTCGAGATAA
84655 P A S CGCGCCGAGGTAGAAGATGAAGACATAATGTGAAY
84655 P G S ATGACGTGGCAGACCAGAAGATGAAGACATAATGTGAY
84655 T A S GGTATTCACATTATGTCTTCATCTTCTATATCTCGACTAGTAACAATATCAGGACTACTCCCTCCTGA
84655 T G S GGTATTCACATTATGTCTTCATCTTCTGTATCTCGACTAGTAACAATATCAGGACTACTCCCTCCTGA
TTCTAACAACCATCATTTTTATACAAAATGGAAGGTATTCACATTATGTCTTCATCTTCT[AG]TATCTCGACTAGTAACAA
84655 IS [AG] TATCAGGACTACTCCCTCCTGAGAACTATATTCATTTCTCAT
84675 I S CTTTCTTTTGTATTGACAAAGTGGTAGGTTAAAATGTTTAAATACAATTTTATTTGGTAAT
84675 P C S ATGACGTGGCAGACGCCAGTGTATTTTTATGTATGTTACY
84675 P T S CGCGCCGAGGACCAGTGTATTTTTATGTATGTTACY
TGGGGTAACATACATAAAAATACACTGGCTTACCAAATAAAATTGTATTTAAACATTTTAACCTACCACTTTGTCAATAC
84675 T C S AAAAGAAAG
TGGGGTAACATACATAAAAATACACTGGTTTACCAAATAAAATTGTATTTAAACATTTTAACCTACCACTTTGTCAATACA
84675 T T S AAAGAAAG
AAACTGCGTTATTACTCAAAGTGAGAAAGAACTGGGGTAACATACATAAAAATACACTGG[CT]TTACCAAATAAAATTGT
84675 IS [CT] ATTTAAACATTTTAACCTACCACTTTGTCAATACAAAAGAAAG
84710 I S CAGAAATCAATGAGCTAGTTGCTTGGGCAACACTGAAT
84710 P T S CGCGCCGAGGACCCAAAGTCTTGTAAAGAATY
84710 P C S ATGACGTGGCAGACGCCCAAAGTCTTGTAAAGAY
84710 T T S AGAAATTCTTTACAAGACTTTGGGTTTCAGTGTTGCCCAAGCAACTAGCTCATTGATTTCTGCT
84710 T C S AGAAATTCTTTACAAGACTTTGGGCTTCAGTGTTGCCCAAGCAACTAGCTCATTGATTTCTGCT
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84710 IS [TC] CAACTAGCTCATTGATTTCTGCTGGAAAAGGTGTCTTCGTTACT
84714 I S CACAGAAGTCTACGGCAAGGCTGCTCCAA
84714 P A S CGCGCCGAGGTCCTGAGGCACGCY
84714 P G S ATGACGTGGCAGACCCCTGAGGCACGCY
84714 T A S AAGGGCGTGCCTCAGGATGGAGCAGCCTTGCCGTAGACTTCTGTGGT
84714 T G S AAGGGCGTGCCTCAGGGTGGAGCAGCCTTGCCGTAGACTTCTGTGGT

FIGURE 129D

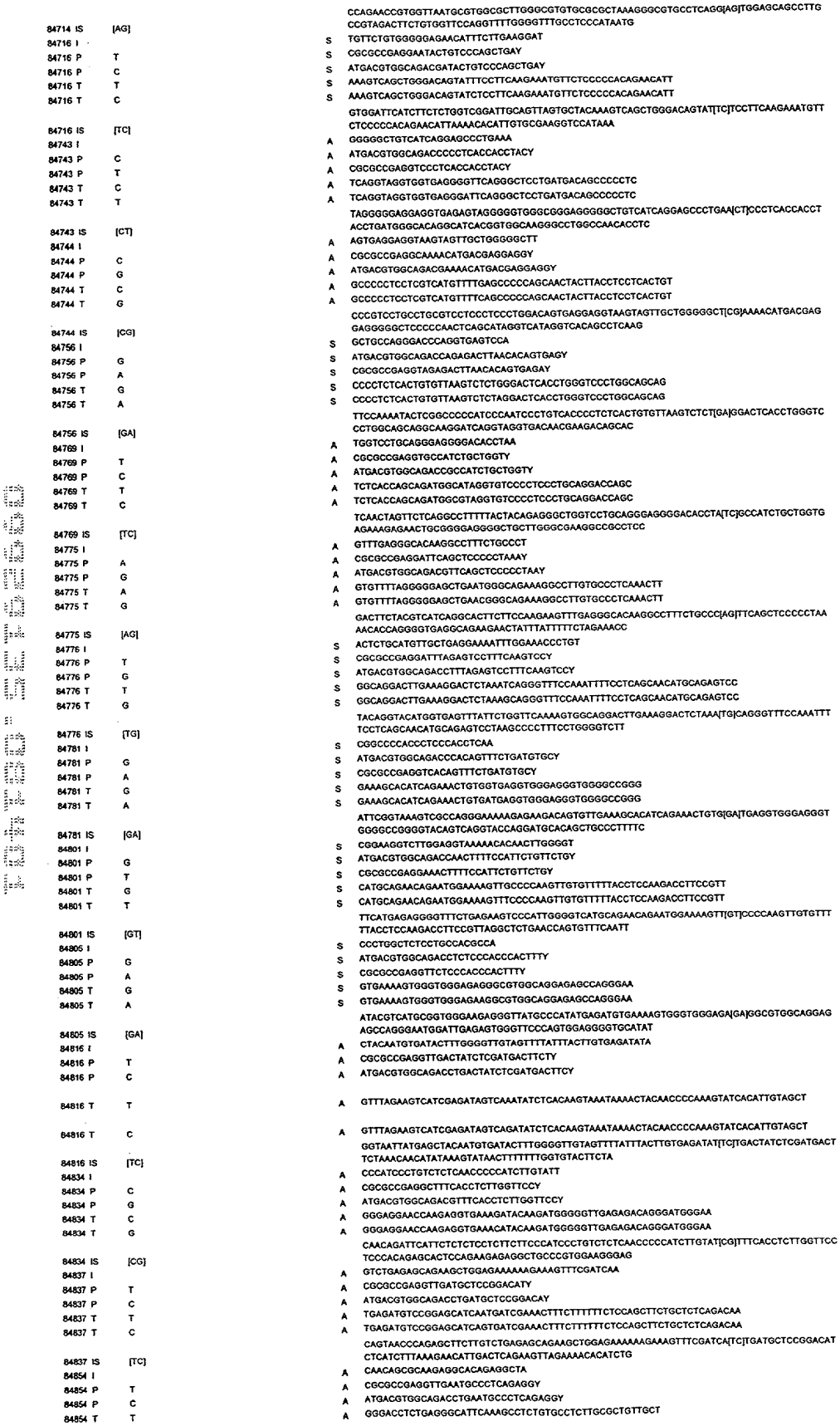

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84716 I
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A CGCGCCGAGGCTTTCACCTCTTGGTTCCY
A ATGACGTGGCAGACGTTTCACCTCTTGGTTCCY
A GGGAGGAACCAAGAGGTGAAAGATACAAGATGGGGGGTTGAGAGACAGGGATGGGAA
A GGGAGGAACCAAGAGGTGAAACATACAAGATGGGGGGTTGAGAGACAGGGATGGGAA
CAACAGATTCATTCTCTCTCCTCTTCTTCCCATCCCTGTCTCTCAACCCCCATCTTGTAT[CG]TTTCACCTCTTGGTTCC
TCCCACAGAGCACTCCAGAAGAGAGGCTGCCCGTGGAAGGGAG
A GTCTGAGAGCAGAAGCTGGAGAAAAAAGAAAGTTTCGATCAA
A CGCGCCGAGGTTGATGCTCCGGACATY
A ATGACGTGGCAGACCTGATGCTCCGGACAY
A TGAGATGTCCGGAGCATCAATGATCGAAACTTTCTTTTTTCTCCAGCTTCTGCTCTCAGACAA
A TGAGATGTCCGGAGCATCAGTGATCGAAACTTTCTTTTTTCTCCAGCTTCTGCTCTCAGACAA
CAGTAACCCAGAGCTTCTTGTCTGAGAGCAGAAGCTGGAGAAAAAAGAAAGTTTCGATCA[TC]TGATGCTCCGGACAT
CTCATCTTTAAAGAACATTGACTCAGAAGTTAGAAAACACATCTG
A CAACAGCGCAAGAGGCACAGAGGCTA
A CGCGCCGAGGTTGAATGCCCTCAGAGGY
A ATGACGTGGCAGACCTGAATGCCCTCAGAGGY
A GGGACCTCTGAGGGCATTCAAAGCCTCTGTGCCTCTTGCGCTGTTGCT

FIGURE 129D

84854 T	C		A	GGGACCTCTGAGGGCATTCAGAGCCTCTGTGCCTCTTGCGCTGTTGCT
				CATCTCCCCATGTGCCTCAACTCCCCCGACAAAAGCAACAGCGCAAGAGGCACAGAGGCT[TC]TGAATGCCCTCAGA
84854 IS	[TC]			GGTCCCACTGACCTGGACCTGTCCAGTGGGAAGCAGGGTCCTTTAT
84872 I			S	GGAAGGCAAAGAATGAAGACCAGATAGTGAGATTAGATTTATCAACAAAAAAGAGTT
84872 P	T		S	CGCGCCGAGGACAAGTGGGGTGGGY
84872 P	C		S	ATGACGTGGCAGACGCAAGTGGGGTGGGY
84872 T	T		S	CCATCCCACCCCACTTGTACTCTTTTTTGTTGATAAATCTAATCTCACTATCTGGTCTTCATTCTTTGCCTTCCAC
84872 T	C		S	CCATCCCACCCCACTTGCACTCTTTTTTGTTGATAAATCTAATCTCACTATCTGGTCTTCATTCTTTGCCTTCCAC
				CAGAAACCCCCAAACACCTAGCCAGCTGCTATCTTTATTTACACCATCCCACCCCACTTG[TC]ACTCTTTTTTGTTGATA
84872 IS	[TC]			AATCTAATCTCACTATCTGGTCTTCATTCTTTGCCTTCCACAT
84873 I			S	TGAAGAACAAAATGTGGAAGGCAAAGAATGAAGACCT
84873 P	T		S	CGCGCCGAGGAGATAGTGAGATTAGATTTATCAACAY
84873 P	C		S	ATGACGTGGCAGACGGATAGTGAGATTAGATTTATCAACY
84873 T	T		S	TTTTTGTTGATAAATCTAATCTCACTATCTGGTCTTCATTCTTTGCCTTCCACATTTTGTTCTTCATT
84873 T	C		S	TTTTTGTTGATAAATCTAATCTCACTATCCGGTCTTCATTCTTTGCCTTCCACATTTTGTTCTTCATT
				TATTTACACCATCCCACCCCACTTGTACTCTTTTTTGTTGATAAATCTAATCTCACTATC[TC]GGTCTTCATTCTTTGCCT
84873 IS	[TC]			TCCACATTTTGTTCTTCATTATTCTCACCACCCCTGTGATCA
84875 I			A	GACAACACTGCTTGCTGGTATAAACAAGACAAGGCTAGAC
84875 P	T		A	CGCGCCGAGGTCCTTACCAGATTCAAAGAGAY
84875 P	A		A	ATGACGTGGCAGACACCTTACCAGATTCAAAGAGY
84875 T	T		A	CTGATCTCTTTGAATCTGGTAAGGATCTAGCCTTGTCTTGTTTATACCAGCAAGCAGTGTTGTCAC
84875 T	A		A	CTGATCTCTTTGAATCTGGTAAGGTTCTAGCCTTGTCTTGTTTATACCAGCAAGCAGTGTTGTCAC
				TGAAAAATGAGAGCATTAAGTGACAACACTGCTTGCTGGTATAAACAAGACAAGGCTAGA[TA]CCTTACCAGATTCAAA
84875 IS	[TA]			GAGATCAGAGTGCCATGGACAAAAACAAATATATAAAACAGAAA
84879 I			S	GCCTCCCACACACGCCCCCACC
84879 P	A		S	CGCGCCGAGGTCCTCCAGCCAGAGY
84879 P	T		S	ATGACGTGGCAGACACCTCCAGCCAGAGY
84879 T	A		S	TGGGCTCTGGCTGGAGGAGTGGGGGCGTGTGTGGGAGGCAC
84879 T	T		S	TGGGCTCTGGCTGGAGGTGTGGGGGCGTGTGTGGGAGGCAC
				AAAAGATGGTTTAGGGTCCCTGCCGCTGCTTGTCTGCCTTCCCTGGGCTCTGGCTGGAGG[AT]GTGGGGGCGTGTG
84879 IS	[AT]			TGGGAGGCACCTTCCCCAGGTGCTGACGCCTGGAAACCCGGAGACAG
84889 I			S	GCTTTATGGGCAGTGAAAATGATCCTGATGGTAAGGAATGGC
84889 P	A		S	CGCGCCGAGGTTTAAAAGAGCTCTGCAGATATY
84889 P	C		S	ATGACGTGGCAGACGTTAAAAGAGCTCTGCAGAY
84889 T	A		S	GACTATATCTGCAGAGCTCTTTTAAACCATTCCTTACCATCAGGATCATTTTCACTGCCCATAAAGCTG
84889 T	C		S	GACTATATCTGCAGAGCTCTTTTAACCCATTCCTTACCATCAGGATCATTTTCACTGCCCATAAAGCTG
				GGATCATGGCTTCTCTAGGCAAAAATGAAAAAAATGACTATATCTGCAGAGCTCTTTTAA[AC]CCATTCCTTACCATCA
84889 IS	[AC]			GGATCATTTTCACTGCCCATAAAGCTGTAGGCATTCTCATGAGG
84894 I			A	CCTAAGAACATGACATGGCCCAAAACAAGAGCATGTA
84894 P	C		A	ATGACGTGGCAGACCAATATTTACAGCATCTGCTTCY
84894 P	T		A	CGCGCCGAGGTAATATTTACAGCATCTGCTTCY
84894 T	C		A	AAAGGAAGCAGATGCTGTAAATATTGACATGCTCTTGTTTTGGGCCATGTCATGTTCTTAGGTC
84894 T	T		A	AAAGGAAGCAGATGCTGTAAATATTAACATGCTCTTGTTTTGGGCCATGTCATGTTCTTAGGTC
				GTGTAGGTCAGTGTTGCAGTAGGACCTAAGAACATGACATGGCCCAAAACAAGAGCATGT[CT]AATATTTACAGCATC
84894 IS	[CT]			TGCTTCCTTTGCCTTGGAATCAGGAAAACTGGGCAAGGGAGCACA
84899 I			S	GGTCGGGGAAGGGAGGGGACAGA
84899 P	G		S	ATGACGTGGCAGACCCAGGGGAACCGGY
84899 P	A		S	CGCGCCGAGGTCAGGGGAACCGGY
84899 T	G		S	CTCCCCGGTTCCCCTGGCTGTCCCCTCCCCTTCCCCGACCTG
84899 T	A		S	CTCCCCGGTTCCCCTGACTGTCCCCTCCCCTTCCCCGACCTG
				CAGCGTGCGTATTGTCAGGTCAGCCCCTGCCATCCATTCTCACGCTCCCCGGTTCCCCTG[GA]CTGTCCCCTCCCCT
84899 IS	[GA]			TCCCCGACCTGCCCAGCACCAGGGAGTCAGACACCATGTGGCTTCT
84901 I			S	CTAGGACACCTGAAAGGAAAAAGCAAATCATTCACTAGCTGTTATGC
84901 P	A		S	CGCGCCGAGGTTCTTAGGCTTCTACTGCAY
84901 P	T		S	ATGACGTGGCAGACATCTTAGGCTTCTACTGCAY
84901 T	A		S	AAAATGCAGTAGAAGCCTAAGAACATAACAGCTAGTGAATGATTTGCTTTTTCCTTTCAGGTGTCCTAGCG
84901 T	T		S	AAAATGCAGTAGAAGCCTAAGATCATAACAGCTAGTGAATGATTTGCTTTTTCCTTTCAGGTGTCCTAGCG
				TGCAGTCAAAGCTCTCTCTACTTCAGGATGTGCTCAGAAAAATGCAGTAGAAGCCTAAGA[AT]CATAACAGCTAGTGAA
84901 IS	[AT]			TGATTTGCTTTTTCCTTTCAGGTGTCCTAGCGGCTACACCGGAA
84912 I			A	CAACCCAGGGAAGCCCCGGGGT
84912 P	A		A	CGCGCCGAGGACCGGATGTGACGCY
84912 P	G		A	ATGACGTGGCAGACGCCGGATGTGACGY
84912 T	A		A	AGTGGCGTCACATCCGGTCCCCGGGGCTTCCCTGGGTTGAC
84912 T	G		A	AGTGGCGTCACATCCGGCCCCCGGGGCTTCCCTGGGTTGAC
				CCACCCCAGTTCCGGCAGAATCCACTCCGCCCCTGCTGTCAACCCAGGGAAGCCCCGGGG[AG]CCGGATGTGACGC
84912 IS	[AG]			CACTAACTTACGCCTCGGGGATCAGAGAGAAGCGAGGTTCTCGTTCT
84916 I			A	CGTAGCTCCTCGTTGTGGAGACAAGATCAAAAATCAGAGT
84916 P	G		A	ATGACGTGGCAGACGGAAGAATGTGACTGTGGY
84916 P	A		A	CGCGCCGAGGAGAAGAATGTGACTGTGGY
84916 T	G		A	GGAGCCACAGTCACATTCTTCCCTCTGATTTTTGATCTTGTCTCCACAACGAGGAGCTACGTA
84916 T	A		A	GGAGCCACAGTCACATTCTTCTCTCTGATTTTTGATCTTGTCTCCACAACGAGGAGCTACGTA
				TCCATACACTAATTTTCCGTACGTAGCTCCTCGTTGTGGAGACAAGATCAAAAATCAGAG[GA]GAAGAATGTGACTGTG
84916 IS	[GA]			GCTCCCTTAAAGATTGTGCCAGTGATAGATGTTGTGAGACCTCT
84933 I			S	ATGACAAAACAAATTGCTAAGGAAAGAAAATCTAAAAAGGAAGAATTCAAATTAATC
84933 P	A		S	CGCGCCGAGGTTCCATGGTATTCATGCAAY
84933 P	T		S	ATGACGTGGCAGACATCCATGGTATTCATGCAAY
84933 T	A		S	AGCCTTGCATGAATACCATGGAAATTAATTTGAATTCTTCCTTTTTAGATTTTCTTTCCTTAGCAATTTGTTTTGTCATTT
84933 T	T		S	AGCCTTGCATGAATACCATGGATATTAATTTGAATTCTTCCTTTTTAGATTTTCTTTCCTTAGCAATTTGTTTTGTCATTT
				GGCCATTTTTATAAATAATCTACCACAGACTGAGTAAAAGCCTTGCATGAATACCATGGA[AT]ATTAATTTGAATTCTTC
84933 IS	[AT]			CTTTTTAGATTTTCTTTCCTTAGCAATTTGTTTTTGTCATTTTG
84937 I			A	GTTTCCCTGATATATGTTTCCAGTCTGTGTTCTCCCTTACACAGC
84937 P	T		A	CGCGCCGAGGTCACACCTCAGTCTCGY
84937 P	A		A	ATGACGTGGCAGACACACCTCAGTCTCGY
84937 T	T		A	TAGGCGAGACTGAGGTGTGACTGTGTAAGGGAGAACACAGACTGGAAACATATATCAGGGAAACAG
84937 T	A		A	TAGGCGAGACTGAGGTGTGTCTGTGTAAGGGAGAACACAGACTGGAAACATATATCAGGGAAACAG
				CTAGGGTGAGGTTCCTGTTTCCCTGATATATGTTTCCAGTCTGTGTTCTCCCTTACACAG[TA]CACACCTCAGTCTCGC
84937 IS	[TA]			CTAAAGGAACACTCTATCTCTGTCACAAAGAAAATATTGACTCA
84939 I			S	TTCAGGGGTGATTCAGGTTGGTGAAGGCCA
84939 P	G		S	ATGACGTGGCAGACCTGTGAGTCACCTGGGY

FIGURE 129D

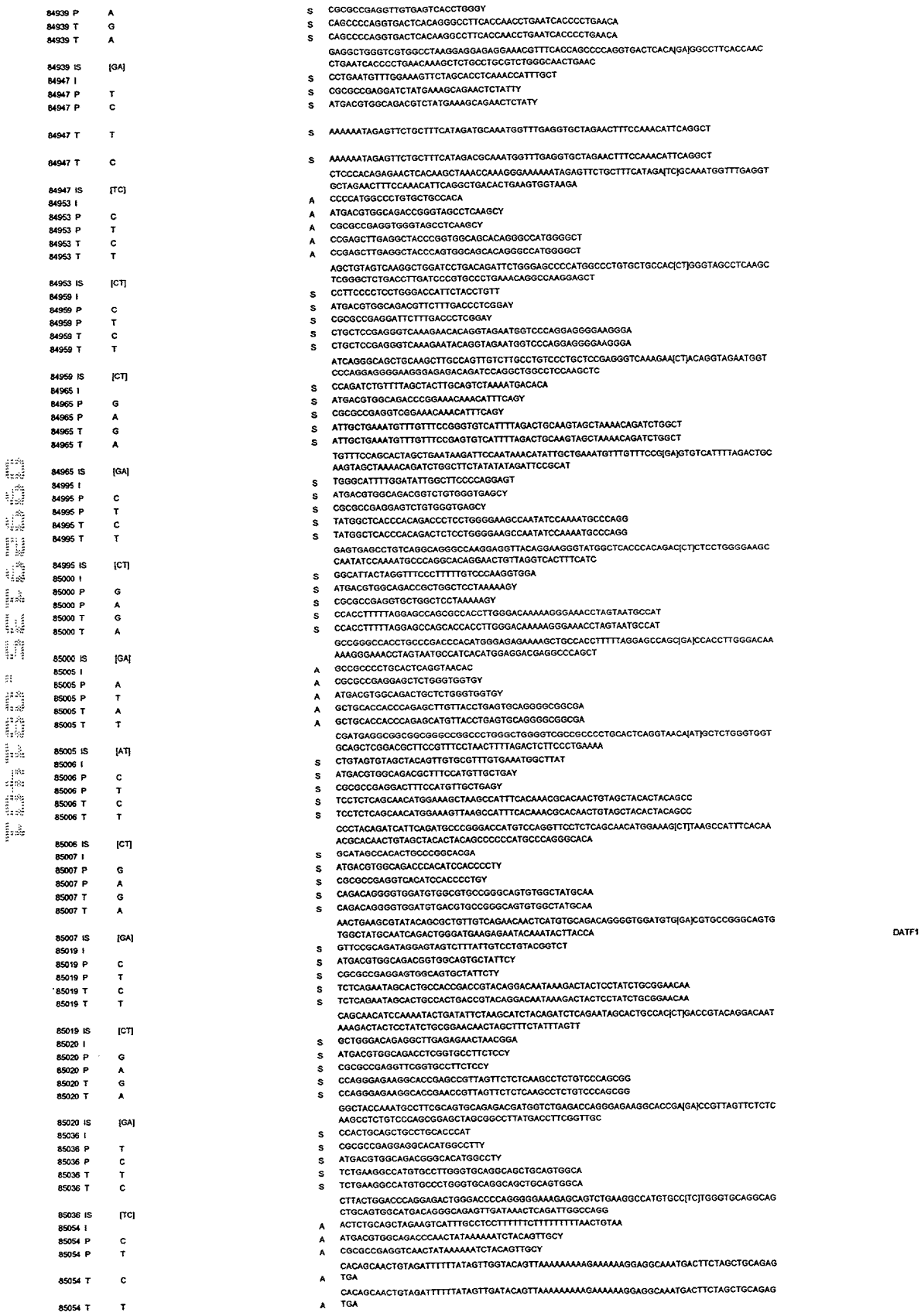

84939 P A S CGCGCCGAGGTTGTGAGTCACCTGGGY
84939 T G S CAGCCCCAGGTGACTCACAGGGCCTTCACCAACCTGAATCACCCCTGAACA
84939 T A S CAGCCCCAGGTGACTCACAAGGCCTTCACCAACCTGAATCACCCCTGAACA
GAGGCTGGGTCGTGGCCTAAGGAGGAGAGGAAACGTTTCACCAGCCCCAGGTGACTCAC[GA]GGCCTTCACCAAC
84939 IS [GA] CTGAATCACCCCTGAACAAAGCTCTGCCTGCGTCTGGGCAACTGAAC
84947 I S CCTGAATGTTTGGAAAGTTCTAGCACCTCAAACCATTTGCT
84947 P T S CGCGCCGAGGATCTATGAAAGCAGAACTCTATTY
84947 P C S ATGACGTGGCAGACGTCTATGAAAGCAGAACTCTATY
84947 T T S AAAAAATAGAGTTCTGCTTTCATAGATGCAAATGGTTTGAGGTGCTAGAACTTTCCAAACATTCAGGCT
84947 T C S AAAAAATAGAGTTCTGCTTTCATAGACGCAAATGGTTTGAGGTGCTAGAACTTTCCAAACATTCAGGCT
CTCCCACAGAGAACTCACAAGCTAAACCAAAGGGAAAAAATAGAGTTCTGCTTTCATAGA[TC]GCAAATGGTTTGAGGT
84947 IS [TC] GCTAGAACTTTCCAAACATTCAGGCTGACACTGAAGTGGTAAGA
84953 I A CCCCATGGCCCTGTGCTGCCACA
84953 P C A ATGACGTGGCAGACCGGGTAGCCTCAAGCY
84953 P T A CGCGCCGAGGTGGGTAGCCTCAAGCY
84953 T C A CCGAGCTTGAGGCTACCCGGTGGCAGCACAGGGCCATGGGGCT
84953 T T A CCGAGCTTGAGGCTACCCAGTGGCAGCACAGGGCCATGGGGCT
AGCTGTAGTCAAGGCTGGATCCTGACAGATTCTGGGAGCCCCATGGCCCTGTGCTGCCAC[CT]GGGTAGCCTCAAGC
84953 IS [CT] TCGGGCTCTGACCTTGATCCCGTGCCCTGAAACAGGCCAAGGAGCT
84959 I S CCTTCCCCTCCTGGGACCATTCTACCTGTT
84959 P C S ATGACGTGGCAGACGTTCTTTGACCCTCGGAY
84959 P T S CGCGCCGAGGATTCTTTGACCCTCGGAY
84959 T C S CTGCTCCGAGGGTCAAAGAACACAGGTAGAATGGTCCCAGGAGGGGAAGGGA
84959 T T S CTGCTCCGAGGGTCAAAGAATACAGGTAGAATGGTCCCAGGAGGGGAAGGGA
ATCAGGGCAGCTGCAAGCTTGCCAGTTGTCTTGCCTGTCCCTGCTCCGAGGGTCAAAGAA[CT]ACAGGTAGAATGGT
84959 IS [CT] CCCAGGAGGGGAAGGGAGAGACAGATCCAGGCTGGCCTCCAAGCTC
84965 I S CCAGATCTGTTTTAGCTACTTGCAGTCTAAAATGACACA
84965 P G S ATGACGTGGCAGACCCGGAAACAAACATTTCAGY
84965 P A S CGCGCCGAGGTCGGAAACAAACATTTCAGY
84965 T G S ATTGCTGAAATGTTTGTTTCCGGGTGTCATTTTAGACTGCAAGTAGCTAAAACAGATCTGGCT
84965 T A S ATTGCTGAAATGTTTGTTTCCGAGTGTCATTTTAGACTGCAAGTAGCTAAAACAGATCTGGCT
TGTTTCCAGCACTAGCTGAATAAGATTCCAATAAACATATTGCTGAAATGTTTGTTTCCG[GA]GTGTCATTTTAGACTGC
84965 IS [GA] AAGTAGCTAAAACAGATCTGGCTTCTATATATAGATTCCGCAT
84995 I S TGGGCATTTTGGATATTGGCTTCCCCAGGAGT
84995 P C S ATGACGTGGCAGACGGTCTGTGGGTGAGCY
84995 P T S CGCGCCGAGGAGTCTGTGGGTGAGCY
84995 T C S TATGGCTCACCCACAGACCCTCCTGGGGAAGCCAATATCCAAAATGCCCAGG
84995 T T S TATGGCTCACCCACAGACTCTCCTGGGGAAGCCAATATCCAAAATGCCCAGG
GAGTGAGCCTGTCAGGCAGGGCCAAGGAGGTTACAGGAAGGGTATGGCTCACCCACAGAC[CT]CTCCTGGGGAAGC
84995 IS [CT] CAATATCCAAAATGCCCAGGCACAGGAACTGTTAGGTCACTTTCATC
85000 I S GGCATTACTAGGTTTCCCTTTTTGTCCCAAGGTGGA
85000 P G S ATGACGTGGCAGACCGCTGGCTCCTAAAAAGY
85000 P A S CGCGCCGAGGTGCTGGCTCCTAAAAAGY
85000 T G S CCACCTTTTTAGGAGCCAGCGCCACCTTGGGACAAAAAGGGAAACCTAGTAATGCCAT
85000 T A S CCACCTTTTTAGGAGCCAGCACCACCTTGGGACAAAAAGGGAAACCTAGTAATGCCAT
GCCGGGCCACCTGCCCGACCCACATGGGAGAGAAAAGCTGCCACCTTTTTAGGAGCCAGC[GA]CCACCTTGGGACAA
85000 IS [GA] AAAGGGAAACCTAGTAATGCCATCACATGGAGGACGAGGCCCAGCT
85005 I A GCCGCCCCTGCACTCAGGTAACAC
85005 P A A CGCGCCGAGGAGCTCTGGGTGGTGY
85005 P T A ATGACGTGGCAGACTGCTCTGGGTGGTGY
85005 T A A GCTGCACCACCCAGAGCTTGTTACCTGAGTGCAGGGGCGGCGA
85005 T T A GCTGCACCACCCAGAGCATGTTACCTGAGTGCAGGGGCGGCGA
CGATGAGGCGGCGGCGGGCCGGCCCTGGGCTGGGGTCGCCGCCCCTGCACTCAGGTAACA[AT]GCTCTGGGTGGT
85005 IS [AT] GCAGCTCGGACGCTTCCGTTTCCTAACTTTTAGACTCTTCCCTGAAAA
85006 I S CTGTAGTGTAGCTACAGTTGTGCGTTTGTGAAATGGCTTAT
85006 P C S ATGACGTGGCAGACGCTTTCCATGTTGCTGAY
85006 P T S CGCGCCGAGGACTTTCCATGTTGCTGAGY
85006 T C S TCCTCTCAGCAACATGGAAAGCTAAGCCATTTCACAAACGCACAACTGTAGCTACACTACAGCC
85006 T T S TCCTCTCAGCAACATGGAAAGTTAAGCCATTTCACAAACGCACAACTGTAGCTACACTACAGCC
CCCTACAGATCATTCAGATGCCCGGGACCATGTCCAGGTTCCTCTCAGCAACATGGAAAG[CT]TAAGCCATTTCACAA
85006 IS [CT] ACGCACAACTGTAGCTACACTACAGCCCCCCATGCCCAGGGCACA
85007 I S GCATAGCCACACTGCCCGGCACGA
85007 P G S ATGACGTGGCAGACCCACATCCACCCCTY
85007 P A S CGCGCCGAGGTCACATCCACCCCTGY
85007 T G S CAGACAGGGGTGGATGTGGCGTGCCGGGCAGTGTGGCTATGCAA
85007 T A S CAGACAGGGGTGGATGTGACGTGCCGGGCAGTGTGGCTATGCAA
AACTGAAGCGTATACAGCGCTGTTGTCAGAACAACTCATGTGCAGACAGGGGTGGATGTG[GA]CGTGCCGGGCAGTG
85007 IS [GA] TGGCTATGCAATCAGACTGGGATGAAGAGAATACAAATACTTACCA
85019 I S GTTCCGCAGATAGGAGTAGTCTTTATTGTCCTGTACGGTCT
85019 P C S ATGACGTGGCAGACGGTGGCAGTGCTATTCY
85019 P T S CGCGCCGAGGAGTGGCAGTGCTATTCTY
85019 T C S TCTCAGAATAGCACTGCCACCGACCGTACAGGACAATAAAGACTACTCCTATCTGCGGAACAA
85019 T T S TCTCAGAATAGCACTGCCACTGACCGTACAGGACAATAAAGACTACTCCTATCTGCGGAACAA
CAGCAACATCCAAAATACTGATATTCTAAGCATCTACAGATCTCAGAATAGCACTGCCAC[CT]GACCGTACAGGACAAT
85019 IS [CT] AAAGACTACTCCTATCTGCGGAACAACTAGCTTTCTATTTAGTT
85020 I S GCTGGGACAGAGGCTTGAGAGAACTAACGGA
85020 P G S ATGACGTGGCAGACCTCGGTGCCTTCTCCY
85020 P A S CGCGCCGAGGTTCGGTGCCTTCTCCY
85020 T G S CCAGGGAGAAGGCACCGAGCCGTTAGTTCTCTCAAGCCTCTGTCCCAGCGG
85020 T A S CCAGGGAGAAGGCACCGAACCGTTAGTTCTCTCAAGCCTCTGTCCCAGCGG
GGCTACCAAATGCCTTCGCAGTGCAGAGACGATGGTCTGAGACCAGGGAGAAGGCACCGA[GA]CCGTTAGTTCTCTC
85020 IS [GA] AAGCCTCTGTCCCAGCGGAGCTAGCGGCCTTATGACCTTCGGTTGC
85036 I S CCACTGCAGCTGCCTGCACCCAT
85036 P T S CGCGCCGAGGAGGCACATGGCCTTY
85036 P C S ATGACGTGGCAGACGGGCACATGGCCTY
85036 T T S TCTGAAGGCCATGTGCCTTGGGTGCAGGCAGCTGCAGTGGCA
85036 T C S TCTGAAGGCCATGTGCCCTGGGTGCAGGCAGCTGCAGTGGCA
CTTACTGGACCCAGGAGACTGGGACCCCAGGGGGAAAGAGCAGTCTGAAGGCCATGTGCC[TC]TGGGTGCAGGCAG
85036 IS [TC] CTGCAGTGGCATGACAGGGCAGAGTTGATAAACTCAGATTGGCCAGG
85054 I A ACTCTGCAGCTAGAAGTCATTTGCCTCCTTTTTTCTTTTTTTTTAACTGTAA
85054 P C A ATGACGTGGCAGACCCAACTATAAAAAATCTACAGTTGCY
85054 P T A CGCGCCGAGGTCAACTATAAAAAATCTACAGTTGCY
CACAGCAACTGTAGATTTTTTATAGTTGGTACAGTTAAAAAAAAAGAAAAAAGGAGGCAAATGACTTCTAGCTGCAGAG
85054 T C A TGA
CACAGCAACTGTAGATTTTTTATAGTTGATACAGTTAAAAAAAAAGAAAAAAGGAGGCAAATGACTTCTAGCTGCAGAG
85054 T T A TGA
DATF1

FIGURE 129D

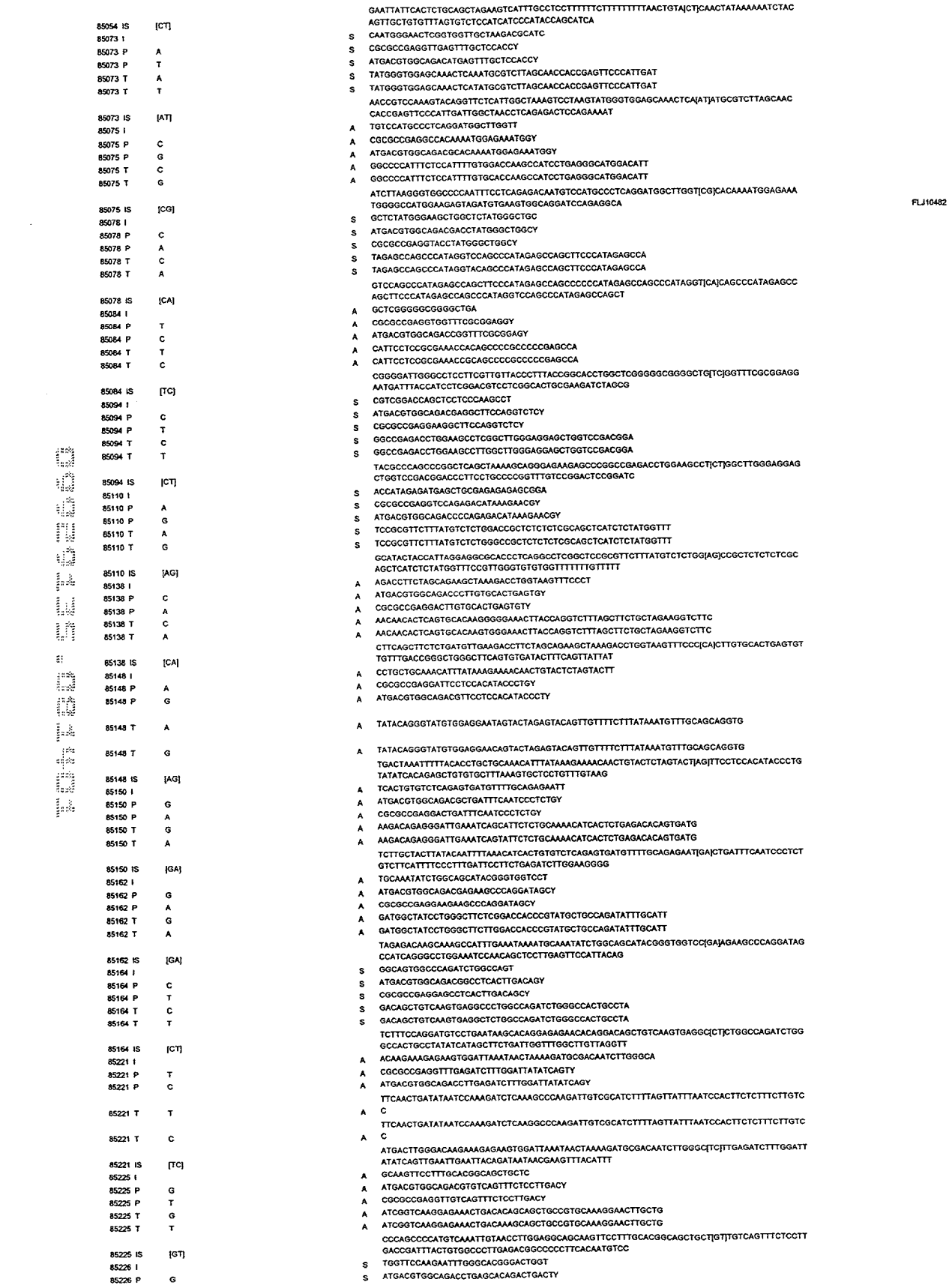


FIGURE 129D

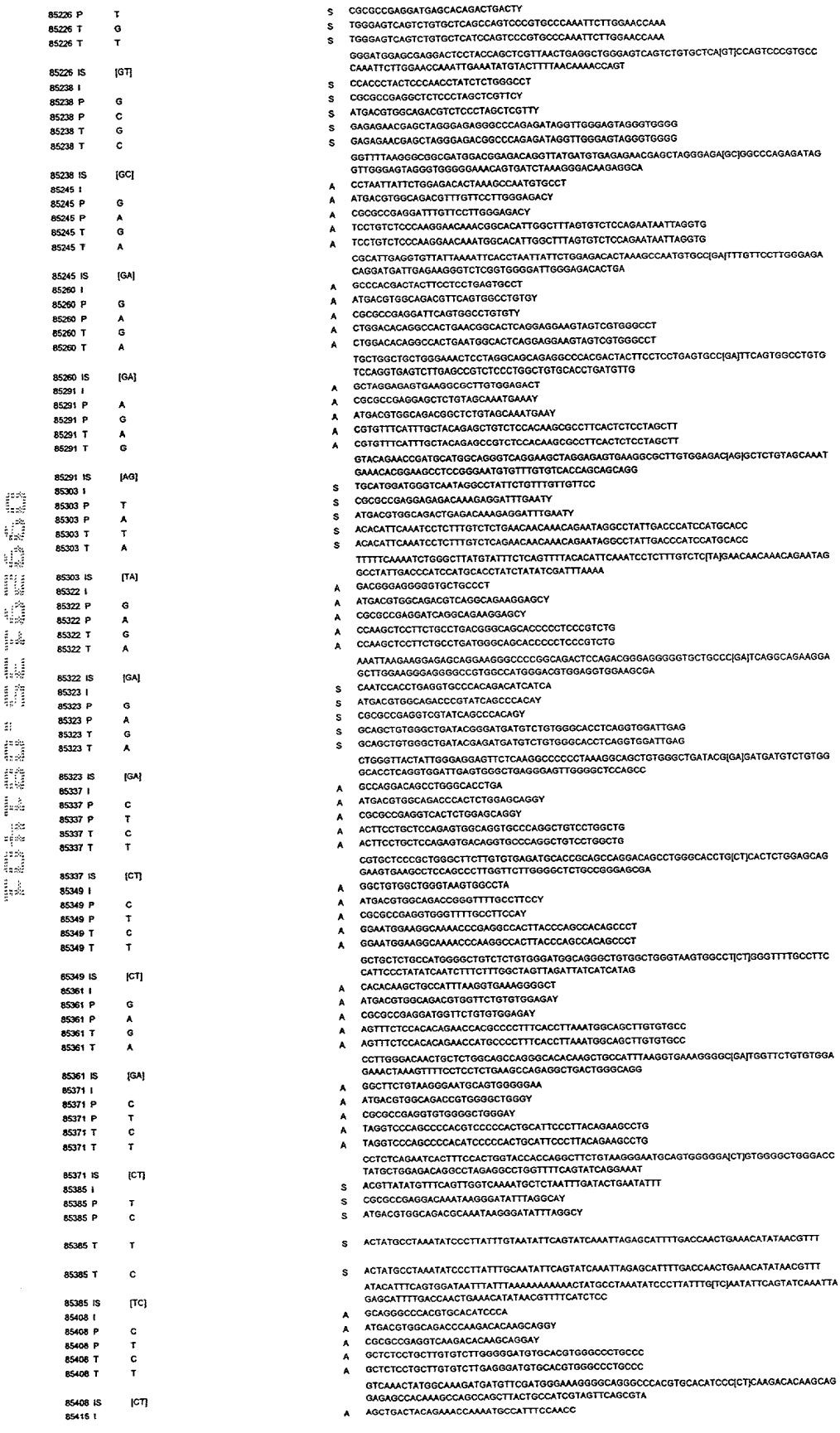

85226 P T
85226 T G
85226 T T
85226 IS [GT]
85238 I
85238 P G
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85245 T A
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85323 I
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85323 P A
85323 T G
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85349 P C
85349 P T
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85361 T A
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85385 P C
85385 T T
85385 T C
85385 IS [TC]
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85408 P T
85408 T C
85408 T T
85408 IS [CT]
85415 I
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S TGGGAGTCAGTCTGTGCTCATCCAGTCCCGTGCCCAAATTCTTGGAACCAAA
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S CCACCCTACTCCCAACCTATCTCTGGGCCT
S CGCGCCGAGGCTCTCCCTAGCTCGTTCY
S ATGACGTGGCAGACGTCTCCCTAGCTCGTTY
S GAGAGAACGAGCTAGGGAGAGGGCCCAGAGATAGGTTGGGAGTAGGGTGGGG
S GAGAGAACGAGCTAGGGAGACGGCCCAGAGATAGGTTGGGAGTAGGGTGGGG
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A ATGACGTGGCAGACGTTTGTTCCTTGGGAGACY
A CGCGCCGAGGATTTGTTCCTTGGGAGACY
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A TCCTGTCTCCCAAGGAACAAATGGCACATTGGCTTTAGTGTCTCCAGAATAATTAGGTG
CGCATTGAGGTGTTATTAAAATTCACCTAATTATTCTGGAGACACTAAAGCCAATGTGCC[GA]TTTGTTCCTTGGGAGA
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A ATGACGTGGCAGACGTTCAGTGGCCTGTGY
A CGCGCCGAGGATTCAGTGGCCTGTGTY
A CTGGACACAGGCCACTGAACGGCACTCAGGAGGAAGTAGTCGTGGGCCT
A CTGGACACAGGCCACTGAATGGCACTCAGGAGGAAGTAGTCGTGGGCCT
TGCTGGCTGCTGGGAAACTCCTAGGCAGCAGAGGCCCACGACTACTTCCTCCTGAGTGCC[GA]TTCAGTGGCCTGTG
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A GCTAGGAGAGTGAAGGCGCTTGTGGAGACT
A CGCGCCGAGGAGCTCTGTAGCAAATGAAAY
A ATGACGTGGCAGACGGCTCTGTAGCAAATGAAY
A CGTGTTTCATTTGCTACAGAGCTGTCTCCACAAGCGCCTTCACTCTCCTAGCTT
A CGTGTTTCATTTGCTACAGAGCCGTCTCCACAAGCGCCTTCACTCTCCTAGCTT
GTACAGAACCGATGCATGGCAGGGTCAGGAAGCTAGGAGAGTGAAGGCGCTTGTGGAGAC[AG]GCTCTGTAGCAAAT
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S CGCGCCGAGGAGAGACAAAGAGGATTTGAATY
S ATGACGTGGCAGACTGAGACAAAGAGGATTTGAATY
S ACACATTCAAATCCTCTTTGTCTCTGAACAACAAACAGAATAGGCCTATTGACCCATCCATGCACC
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TTTTTCAAAATCTGGGCTTATGTATTTCTCAGTTTTACACATTCAAATCCTCTTTGTCTC[TA]GAACAACAAACAGAATAG
GCCTATTGACCCATCCATGCACCTATCTATATCGATTTAAAA
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A ATGACGTGGCAGACGTCAGGCAGAAGGAGCY
A CGCGCCGAGGATCAGGCAGAAGGAGCY
A CCAAGCTCCTTCTGCCTGACGGGCAGCACCCCCTCCCGTCTG
A CCAAGCTCCTTCTGCCTGATGGGCAGCACCCCCTCCCGTCTG
AAATTAAGAAGGAGAGCAGGAAGGGCCCCGGCAGACTCCAGACGGGAGGGGGTGCTGCCC[GA]TCAGGCAGAAGGA
GCTTGGAAGGGAGGGGCCGTGGCCATGGGACGTGGAGGTGGAAGCGA
S CAATCCACCTGAGGTGCCCACAGACATCATCA
S ATGACGTGGCAGACCCGTATCAGCCCACAY
S CGCGCCGAGGTCGTATCAGCCCACAGY
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FIGURE 129D

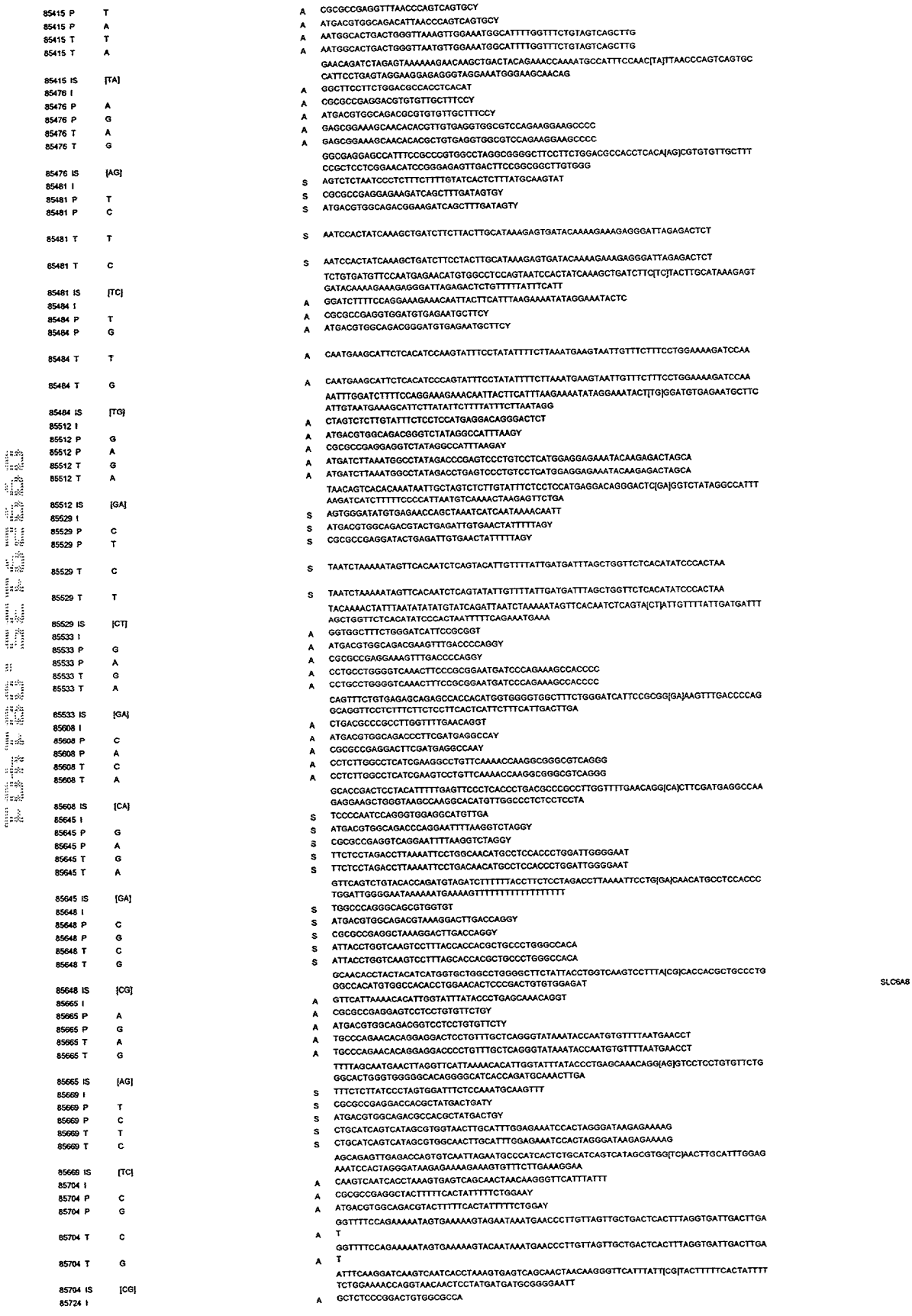

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FIGURE 129D

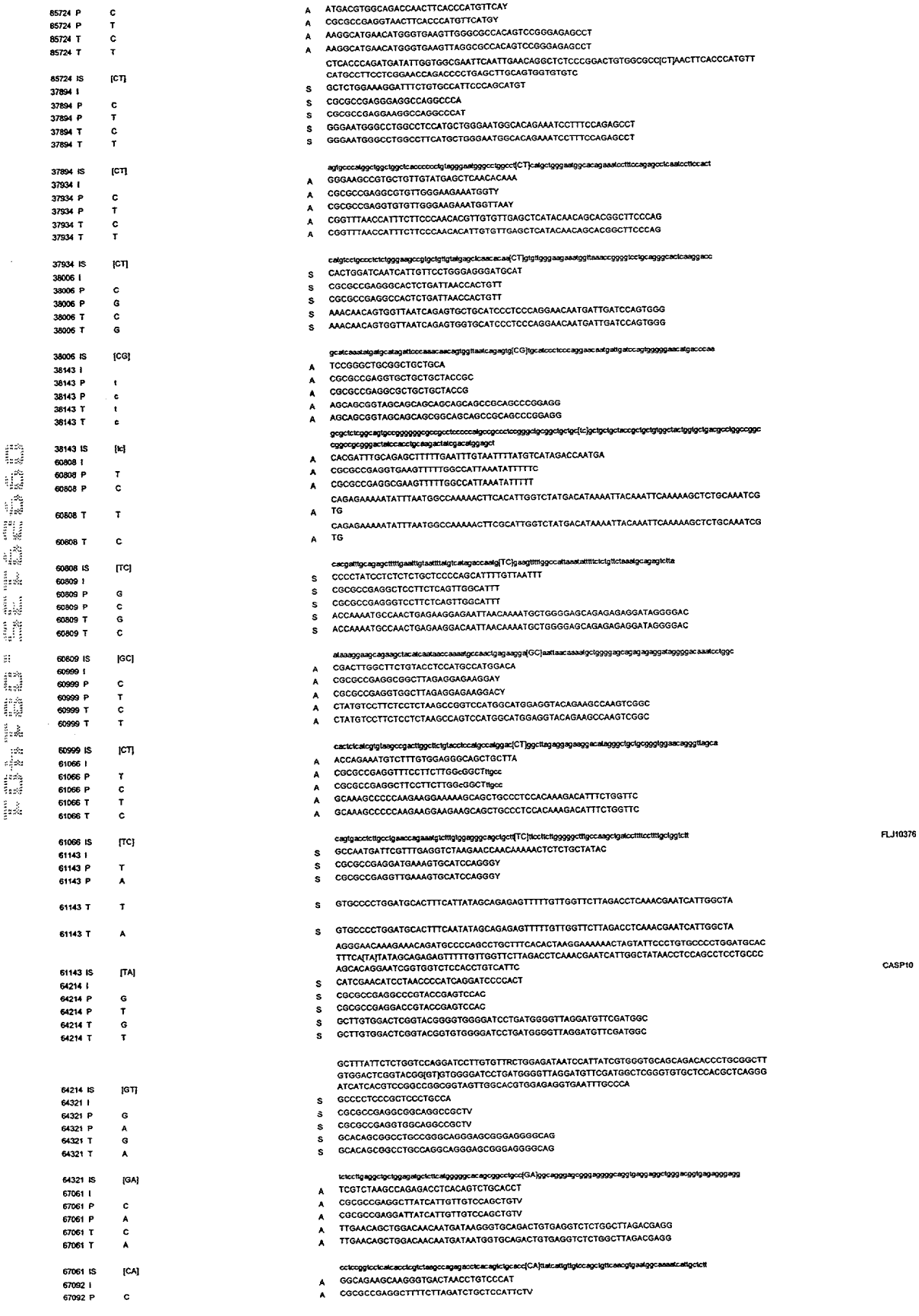

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85724 T C
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85724 T T
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37894 P T
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37894 T C
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60809 T C
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60999 P T
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67061 P A
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FIGURE 129D

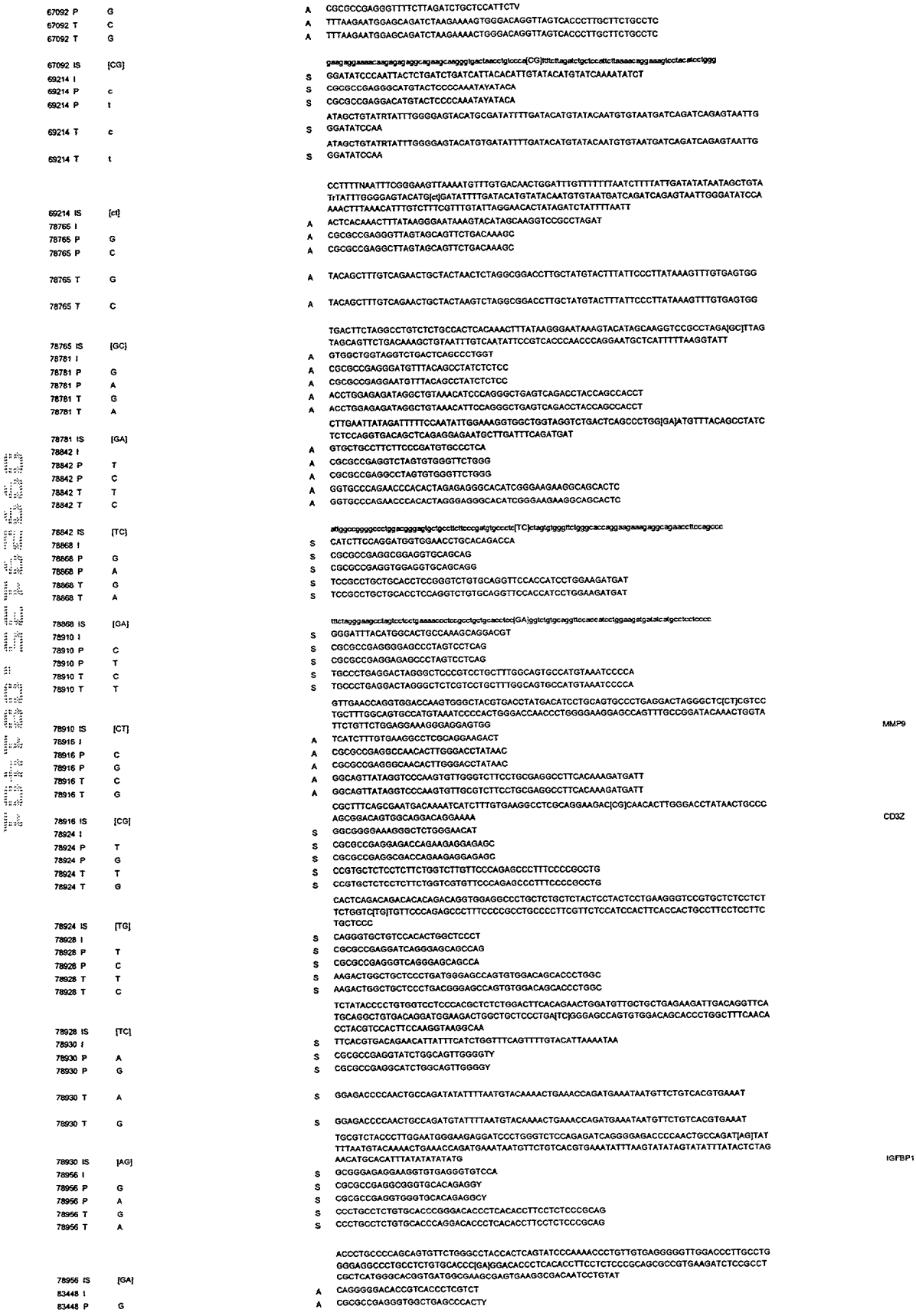


FIGURE 129D

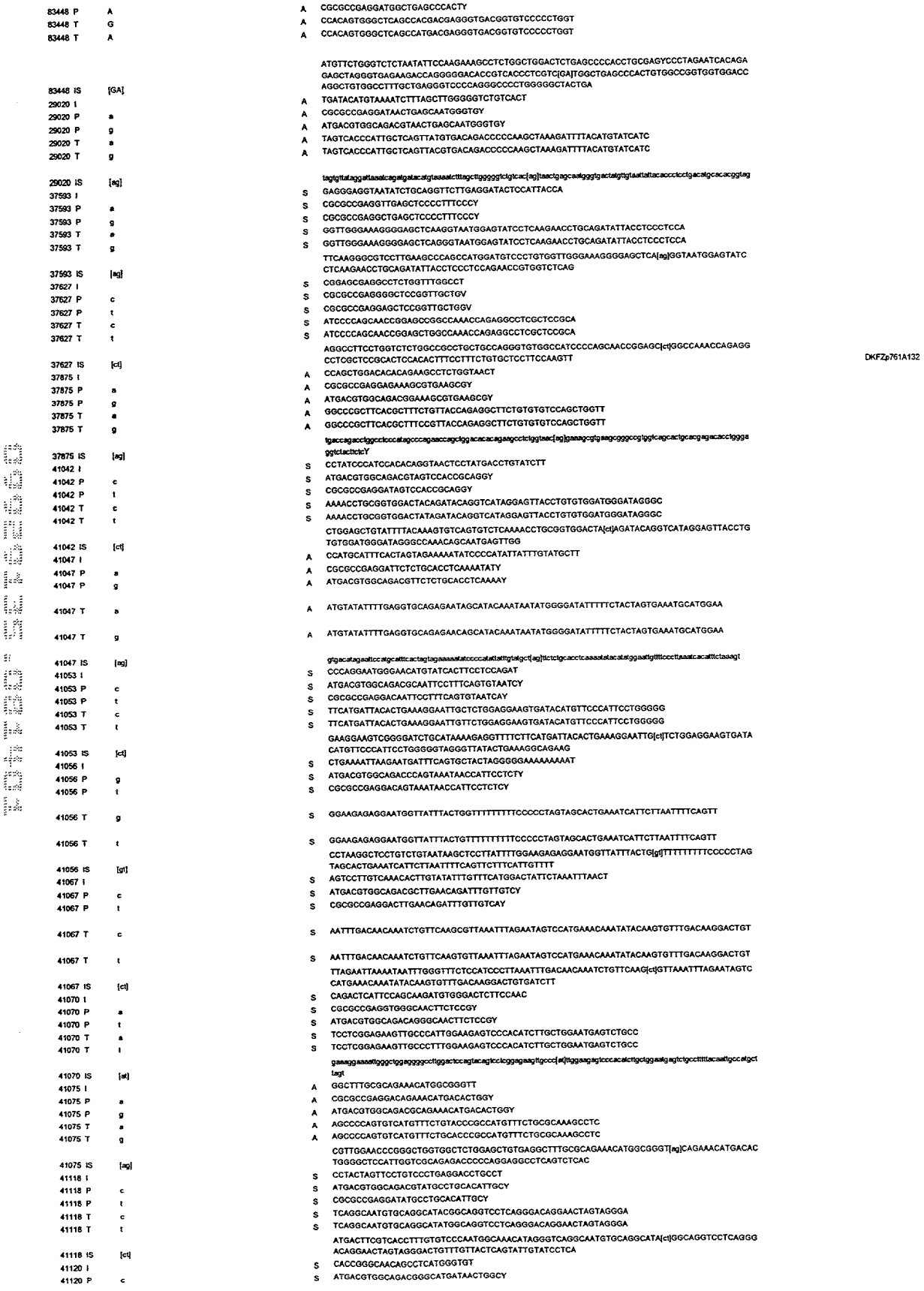


FIGURE 129D

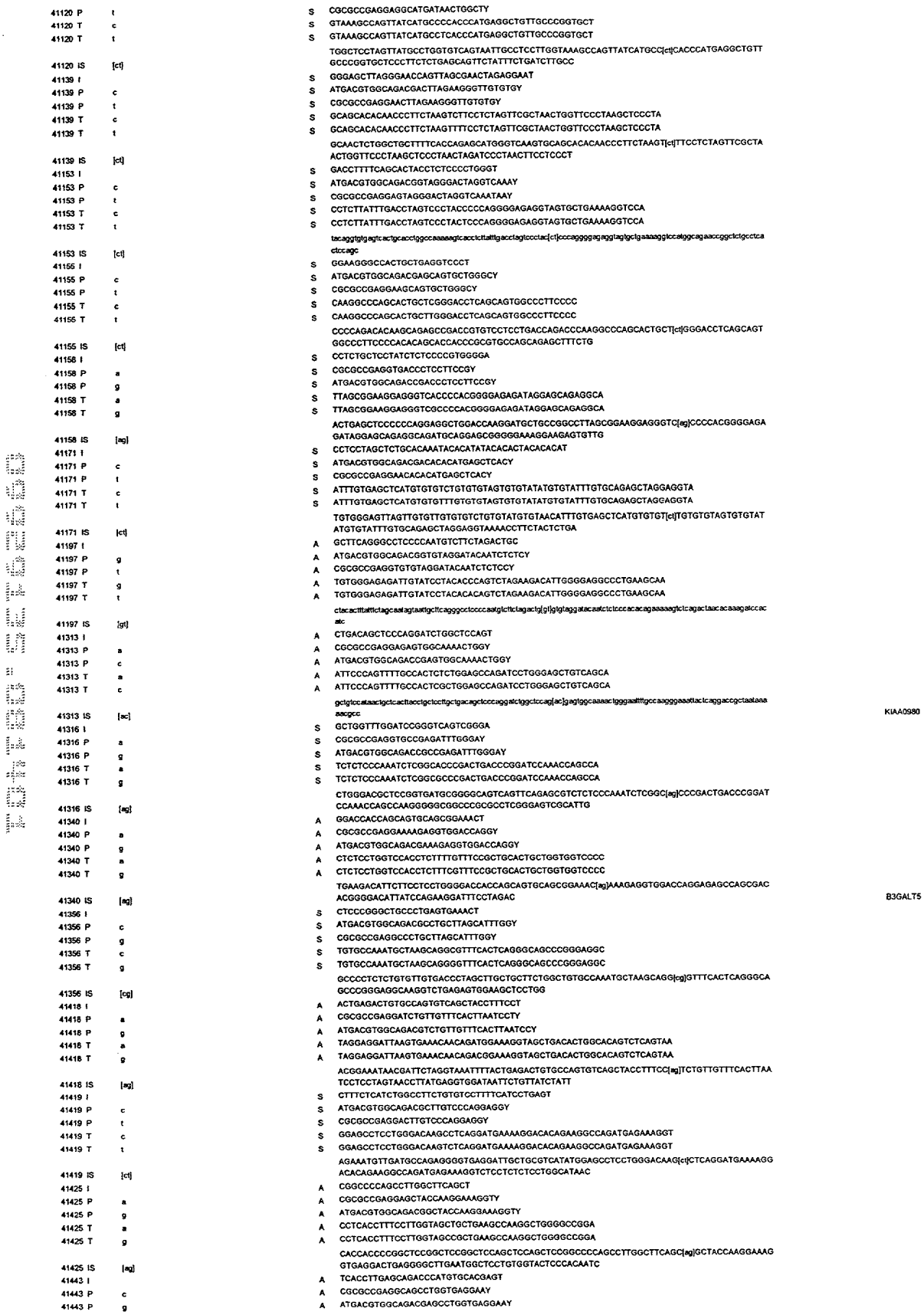

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41158 P a S CGCGCCGAGGTGACCCTCCTTCCGY
41158 P g S ATGACGTGGCAGACCGACCCTCCTTCCGY
41158 T a S TTAGCGGAAGGAGGGTCACCCCACGGGGAGAGATAGGAGCAGAGGCA
41158 T g S TTAGCGGAAGGAGGGTCGCCCCACGGGGAGAGATAGGAGCAGAGGCA
ACTGAGCTCCCCCCAGGAGGCTGGACCAAGGATGCTGCCGGCCTTAGCGGAAGGAGGGTC[ag]CCCCACGGGGAGA
41158 IS [ag] GATAGGAGCAGAGGCAGATGCAGGAGCGGGGGAAAGGAAGAGTGTTG
41171 I S CCTCCTAGCTCTGCACAAATACACATATACACACTACACACAT
41171 P c S ATGACGTGGCAGACGACACACATGAGCTCACY
41171 P t S CGCGCCGAGGAACACACATGAGCTCACY
41171 T c S ATTTGTGAGCTCATGTGTGTCTGTGTGTAGTGTGTATATGTGTATTTGTGCAGAGCTAGGAGGTA
41171 T t S ATTTGTGAGCTCATGTGTGTTTGTGTGTAGTGTGTATATGTGTATTTGTGCAGAGCTAGGAGGTA
TGTGGGAGTTAGTTGTGTTGTGTGTCTGTGTATGTGTAACATTTGTGAGCTCATGTGTGT[ct]TGTGTGTAGTGTGTAT
41171 IS [ct] ATGTGTATTTGTGCAGAGCTAGGAGGTAAAACCTTCTACTCTGA
41197 I A GCTTCAGGGCCTCCCCAATGTCTTCTAGACTGC
41197 P g A ATGACGTGGCAGACGGTGTAGGATACAATCTCTCY
41197 P t A CGCGCCGAGGTGTGTAGGATACAATCTCTCCY
41197 T g A TGTGGGAGAGATTGTATCCTACACCCAGTCTAGAAGACATTGGGGAGGCCCTGAAGCAA
41197 T t A TGTGGGAGAGATTGTATCCTACACACAGTCTAGAAGACATTGGGGAGGCCCTGAAGCAA
ctacacttattctagcaatagtaatgcttcagggcctcccaatgtcttctagactg[gt]gtgtaggatacaatctctcccacacagaaaaagtctctagactaacacaaagatccac
41197 IS [gt] atc
41313 I A CTGACAGCTCCCAGGATCTGGCTCCAGT
41313 P a A CGCGCCGAGGAGAGTGGCAAAACTGGY
41313 P c A ATGACGTGGCAGACCGAGTGGCAAAACTGGY
41313 T a A ATTCCCAGTTTTGCCACTCTCTGGAGCCAGATCCTGGGAGCTGTCAGCA
41313 T c A ATTCCCAGTTTTGCCACTCGCTGGAGCCAGATCCTGGGAGCTGTCAGCA
gctgtccataactgctcacttacctgctcttgctgacagctcccaggatctggctccag[ac]gagtggcaaaactgggaatttgccaagggaaatactactcaggaccgctaataaa
41313 IS [ac] aacgcc KIAA0980
41316 I S GCTGGTTTGGATCCGGGTCAGTCGGGA
41316 P a S CGCGCCGAGGTGCCGAGATTTGGGAY
41316 P g S ATGACGTGGCAGACCGCCGAGATTTGGGAY
41316 T a S TCTCTCCCAAATCTCGGCACCCGACTGACCCGGATCCAAACCAGCCA
41316 T g S TCTCTCCCAAATCTCGGCGCCCGACTGACCCGGATCCAAACCAGCCA
CTGGGACGCTCCGGTGATGCGGGGCAGTCAGTTCAGAGCGTCTCTCCCAAATCTCGGC[ag]CCCGACTGACCCGGAT
41316 IS [ag] CCAAACCAGCCAAGGGGGCGGCCCCGCGCCTCGGGAGTCGCATTG
41340 I A GGACCACCAGCAGTGCAGCGGAAACT
41340 P a A CGCGCCGAGGAAAAGAGGTGGACCAGGY
41340 P g A ATGACGTGGCAGACGAAAGAGGTGGACCAGGY
41340 T a A CTCTCCTGGTCCACCTCTTTTGTTTCCGCTGCACTGCTGGTGGTCCCC
41340 T g A CTCTCCTGGTCCACCTCTTTCGTTTCCGCTGCACTGCTGGTGGTCCCC
TGAAGACATTCTTCCTCGTGGGGACCACCAGCAGTGCAGCGGAAAC[ag]AAAGAGGTGGACCAGGAGAGCCAGCGAC
41340 IS [ag] ACGGGGACATTATCCAGAAGGATTTCCTAGAC B3GALT5
41356 I S CTCCCGGGCTGCCCTGAGTGAAACT
41356 P c S ATGACGTGGCAGACGCCTGCTTAGCATTTGGY
41356 P g S CGCGCCGAGGCCCTGCTTAGCATTTGGY
41356 T c S TGTGCCAAATGCTAAGCAGGCGTTTCACTCAGGGCAGCCCGGGAGGC
41356 T g S TGTGCCAAATGCTAAGCAGGGGTTTCACTCAGGGCAGCCCGGGAGGC
GCCCCTCTCTGTGTTGTGACCCTAGCTTGCTGCTTCTGGCTGTGCCAAATGCTAAGCAGG[cg]GTTTCACTCAGGGCA
41356 IS [cg] GCCCGGGAGGCAAGGTCTGAGAGTGGAAGCTCCTGG
41418 I A ACTGAGACTGTGCCAGTGTCAGCTACCTTTCCT
41418 P a A CGCGCCGAGGATCTGTTGTTTCACTTAATCCTY
41418 P g A ATGACGTGGCAGACGTCTGTTGTTTCACTTAATCCY
41418 T a A TAGGAGGATTAAGTGAAACAACAGATGGAAAGGTAGCTGACACTGGCACAGTCTCAGTAA
41418 T g A TAGGAGGATTAAGTGAAACAACAGACGGAAAGGTAGCTGACACTGGCACAGTCTCAGTAA
ACGGAAATAACGATTCTAGGTAAATTTTACTGAGACTGTGCCAGTGTCAGCTACCTTTCC[ag]TCTGTTGTTTCACTTAA
41418 IS [ag] TCCTCCTAGTAACCTTATGAGGTGGATAATTCTGTTATCTATT
41419 I S CTTTCTCATCTGGCCTTCTGTGTCCTTTTCATCCTGAGT
41419 P c S ATGACGTGGCAGACGCTTGTCCCAGGAGGY
41419 P t S CGCGCCGAGGACTTGTCCCAGGAGGY
41419 T c S GGAGCCTCCTGGGACAAGCCTCAGGATGAAAAGGACACAGAAGGCCAGATGAGAAAGGT
41419 T t S GGAGCCTCCTGGGACAAGTCTCAGGATGAAAAGGACACAGAAGGCCAGATGAGAAAGGT
AGAAATGTTGATGCCAGAGGGGTGAGGATTGCTGCGTCATATGGAGCCTCCTGGGACAAG[ct]CTCAGGATGAAAAGG
41419 IS [ct] ACACAGAAGGCCAGATGAGAAAGGTCTCCTCTCTCCTGGCATAAC
41425 I A CGGCCCCAGCCTTGGCTTCAGCT
41425 P a A CGCGCCGAGGAGCTACCAAGGAAAGGTY
41425 P g A ATGACGTGGCAGACGGCTACCAAGGAAAGGTY
41425 T a A CCTCACCTTTCCTTGGTAGCTGCTGAAGCCAAGGCTGGGGCCGGA
41425 T g A CCTCACCTTTCCTTGGTAGCCGCTGAAGCCAAGGCTGGGGCCGGA
CACCACCCCGGCTCCGGCTCCGGCTCCAGCTCCAGCTCCGGCCCCAGCCTTGGCTTCAGC[ag]GCTACCAAGGAAAG
41425 IS [ag] GTGAGGACTGAGGGGCTTGAATGGCTCCTGTGGTACTCCCACAATC
41443 I A TCACCTTGAGCAGACCCATGTGCACGAGT
41443 P c A CGCGCCGAGGCAGCCTGGTGAGGAAY
41443 P g A ATGACGTGGCAGACGAGCCTGGTGAGGAAY

FIGURE 129D

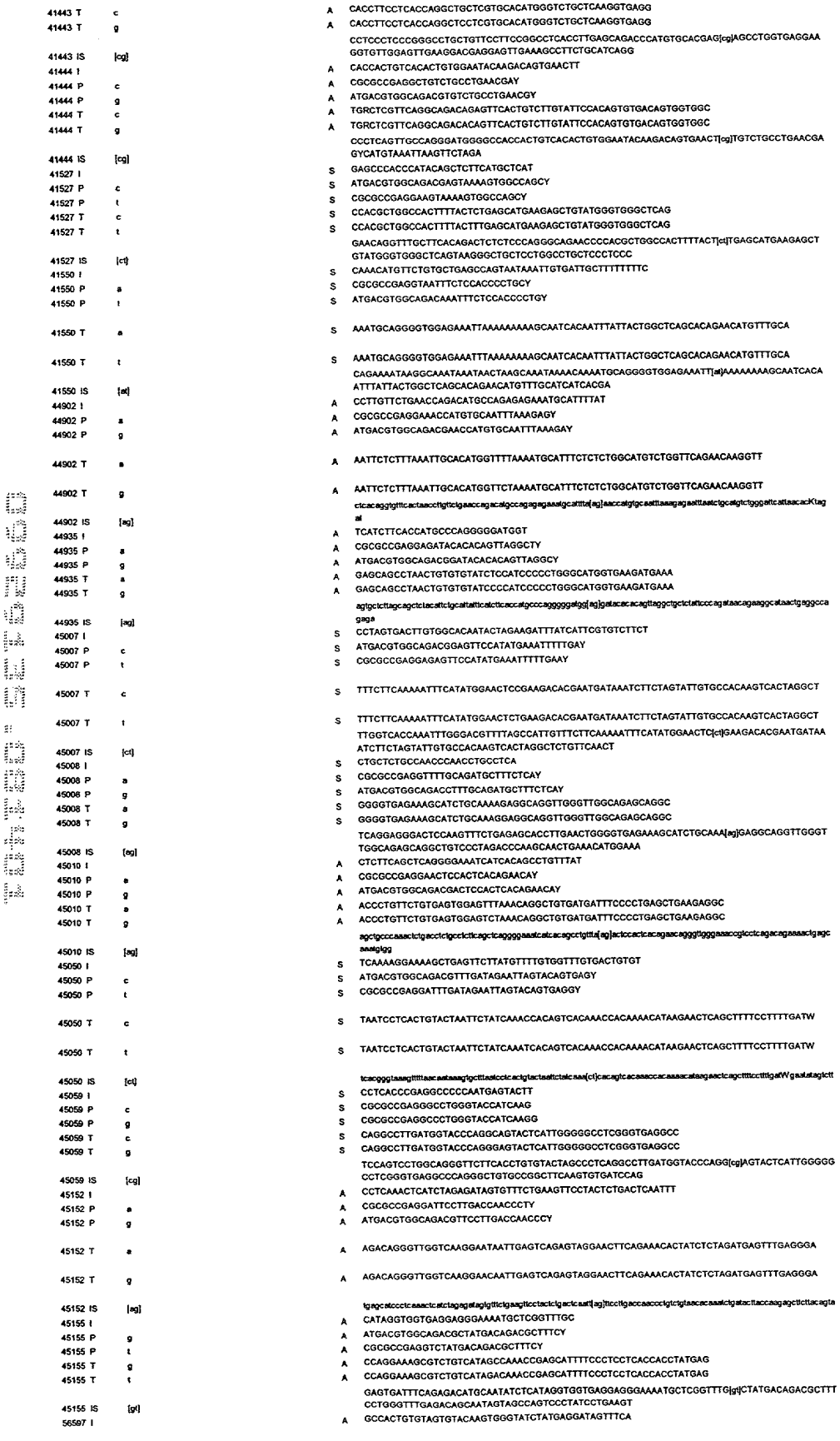


FIGURE 129D

56597	P	C	A	ATGACGTGGCAGACCGCTTCTCTCTAATAGGTAATACY
56597	P	T	A	CGCGCCGAGGTGCTTCTCTCTAATAGGTAATACY
56597	T	C	A	AATAGTATTACCTATTAGAGAGAAGCGGAAACTATCCTCATAGATACCCACTTGTACACTACACAGTGGCAA
56597	T	T	A	AATAGTATTACCTATTAGAGAGAAGCAGAAACTATCCTCATAGATACCCACTTGTACACTACACAGTGGCAA
56597	IS	[ct]		ttcagcaacacctctgccactgtgtagtgtacaagtgggtatctatgaggatagttc[ct]gctctctctaataggtaatactatttatgggttttaggactgaaattatttgtgc
56600	I		A	GAAACGAGGGCCTTCTTCGGGGTTCTGAT
56600	P	A	A	CGCGCCGAGGAAACTTCCTAGTGTGCTTCY
56600	P	G	A	ATGACGTGGCAGACGAACTTCCTAGTGTGCTTCY
56600	T	A	A	AGTGGAAGCACACTAGGAAGTTTTCAGAACCCCGAAGAAGGCCCTCGTTTCAC
56600	T	G	A	AGTGGAAGCACACTAGGAAGTTCTCAGAACCCCGAAGAAGGCCCTCGTTTCAC
56600	IS	[ag]		GGAAAGGACAGGGGCATCCTGAAGGAGCAGGTGAAACGAGGGCCTTCTTCGGGGTTCTGA[ag]AACTTCCTAGTGTG CTTCCACTGTTTGGGACAAAAGAAGTGTGCCGAGTTGTTGGGGTAT
56676	I		A	TGTCCCCTCCTGCCTTGGATAAATAATGACTAATTTTTAAATAACT
56676	P	A	A	CGCGCCGAGGAGATTGGTACAGCTCTGAY
56676	P	G	A	ATGACGTGGCAGACGGATTGGTACAGCTCTGAY
56676	T	A	A	AATCTCAGAGCTGTACCAATCTGTTATTTAAAAATTAGTCATTATTTATCCAAGGCAGGAGGGGACAAA
56676	T	G	A	AATCTCAGAGCTGTACCAATCCGTTATTTAAAAATTAGTCATTATTTATCCAAGGCAGGAGGGGACAAA
56676	IS	[ag]		actaacagttacagttgtcccctcctgccctggataaataatgactaatttttaaataac[ag]gatggtacagctctgagataggagacagaaagcatggaaggtcctcagacctttag
56677	I		S	CATTTCAGATACTTGTATATCGAGAAATTTGCAATATACCAACTTGGTAATCT
56677	P	C	S	ATGACGTGGCAGACGGTAATGGGTGGCTTGY
56677	P	T	S	CGCGCCGAGGAGTAATGGGTGGCTTGAY
56677	T	C	S	CCCCTCAAGCCACCCATTACCGATTACCAAGTTGGTATATTGCAAATTTCTCGATATACAAGTATCTGAAATGAC
56677	T	T	S	CCCCTCAAGCCACCCATTACTGATTACCAAGTTGGTATATTGCAAATTTCTCGATATACAAGTATCTGAAATGAC
56677	IS	[ct]		CTGGATTACTCTGAGTTTTAAGTTCTAATTATGCTGTATACCCCTCAAGCCACCCATTAC[ct]GATTACCAAGTTGGTAT ATTGCAAATTTCTCGATATACAAGTATCTGAAATGACAAGTAA
56680	I		S	CCTTATGGCTAGTGGCTTCCCTGTCCCTGTTT
56680	P	C	S	ATGACGTGGCAGACGTGTTTGTTTTTAACCCTCAGY
56680	P	T	S	CGCGCCGAGGATGTTTGTTTTTAACCCTCAGY
56680	T	C	S	GCATCTGAGGGTTAAAAACAAACACAACAGGGACAGGGAAGCCACTAGCCATAAGGTC
56680	T	T	S	GCATCTGAGGGTTAAAAACAAACATAACAGGGACAGGGAAGCCACTAGCCATAAGGTC
56680	IS	[ct]		aatcaaaggttagagtgtgctgtggcctggacttctgcatctgagggttaaaaacaaaca[ct]aacagggacagggaagccactagccataaggtcctgagggagggtgcaatgagctcct
56683	I		A	GTTCACACCGGTCAACTTTCTGGTACCGTGTTT
56683	P	A	A	CGCGCCGAGGATCTTTAATTTAGTATCTGTTGGTCY
56683	P	G	A	ATGACGTGGCAGACGTCTTTAATTTAGTATCTGTTGGTCY
56683	T	A	A	CTCAGACCAACAGATACTAAATTAAAGATAACACGGTACCAGAAAGTTGACCGGTGTGAACAG
56683	T	G	A	CTCAGACCAACAGATACTAAATTAAAGACAACACGGTACCAGAAAGTTGACCGGTGTGAACAG
56683	IS	[ag]		CAAATCTTAAGATATAGGAGGTATCACTGTTCACACCGGTCAACTTTCTGGTACCGTGTT[ag]TCTTTAATTTAGTATCT GTTGGTCTGAGAAACAATCTCATGGTGTTATGACTAGATTACC
56689	I		A	TGAGTTGGGATCATCTGGGGGTTTTAGAGAAGGGTAT
56689	P	A	A	CGCGCCGAGGAGGACAGCTTGGGGY
56689	P	G	A	ATGACGTGGCAGACGGGACAGCTTGGGGY
56689	T	A	A	TCTTCCCCAAGCTGTCCTTACCCTTCTCTAAAACCCCCAGATGATCCCAACTCAGC
56689	T	G	A	TCTTCCCCAAGCTGTCCCTACCCTTCTCTAAAACCCCCAGATGATCCCAACTCAGC
56689	IS	[ag]		ccctgcccagttagtagagtgctgagttgggatcatctgggggtttagagaagggtat[ag]ggacagctgggagaaggtagtgggagaaggactgggggagtgtatttggtcaac
56701	I		S	CTCTGGAACAGTATCACGTATTTGAAGACTGAAAATAACTGCTTTTGTTCAGC
56701	P	A	S	CGCGCCGAGGTTCTACATTTGGCGTCTTATTY
56701	P	T	S	ATGACGTGGCAGACATCTACATTTGGCGTCTTATTY
56701	T	A	S	TCAAAATAAGACGCCAAATGTAGAACTGAACAAAAGCAGTTATTTTCAGTCTTCAAATACGTGATACTGTTCCAGAGTT
56701	T	T	S	TCAAAATAAGACGCCAAATGTAGATCTGAACAAAAGCAGTTATTTTCAGTCTTCAAATACGTGATACTGTTCCAGAGTT
56701	IS	[at]		TAAAAAACTTTCAGAGGGAAAAGTACACTGCAAACATCAAAATAAGACGCCAAATGTAGA[at]CTGAACAAAAGCAGTTA TTTTCAGTCTTCAAATACGTGATACTGTTCCAGAGTTGACTTA
56703	I		A	CATGCAGAAGCCAAAATGGACTTGTAGAGTTGTTCCTAAAAACAA
56703	P	C	A	ATGACGTGGCAGACCTGAATGATAGGGCTTTAGCY
56703	P	T	A	CGCGCCGAGGTTGAATGATAGGGCTTTAGCY
56703	T	C	A	TTGTGCTAAAGCCCTATCATTCAGTGTTTTTAGGAACAACTCTACAAGTCCATTTTGGCTTCTGCATGGA
56703	T	T	A	TTGTGCTAAAGCCCTATCATTCAATGTTTTTAGGAACAACTCTACAAGTCCATTTTGGCTTCTGCATGGA
56703	IS	[ct]		AGAGCACACTTCTCTCCATGCAGAAGCCAAAATGGACTTGTAGAGTTGTTCCTAAAAACA[ct]TGAATGATAGGGCTTTA GCACAATAAAGGATAGTCTCATTTTATTAATCTGCACCACTAC
56739	I		S	GCTATGTAGCACCGTCCCACCCACACCT
56739	P	C	S	ATGACGTGGCAGACGAGAAGCAATCGCACAY
56739	P	G	S	CGCGCCGAGGCAGAAGCAATCGCACAY
56739	T	C	S	CGGGTGTGCGATTGCTTCTCGGTGTGGGTGGGACGGTGCTACATAGCCC
56739	T	G	S	CGGGTGTGCGATTGCTTCTGGGTGTGGGTGGGACGGTGCTACATAGCCC
56739	IS	[cg]		CAGGTAGGGGTTTGGGGTCCCTATGGCTCCAGTTTCTGACACGGGTGTGCGATTGCTTCT[cg]GGTGTGGGTGGGAC GGTGCTACATAGCCCAGTCTAATCTCTGTAAATGGGGAGGCTGAGG
56746	I		A	CGGCCCATGAGTCCACTCACGCCTCT
56746	P	C	A	CGCGCCGAGGCTAGCTCTCCCTTCCCY
56746	P	G	A	ATGACGTGGCAGACGTAGCTCTCCCTTCCCY
56746	T	C	A	CTGTGGGAAGGGAGAGCTAGGAGGCGTGAGTGGACTCATGGGCCGTG
56746	T	G	A	CTGTGGGAAGGGAGAGCTACGAGGCGTGAGTGGACTCATGGGCCGTG
56746	IS	[cg]		GCAGCCAGGGACAGCCCTACACAGGCACTGTCTCACGGCCCATGAGTCCACTCACGCCTC[cg]TAGCTCTCCCTTCCC ACAGCCCATTCCCTCAGTCCTGGCTCTCTGCAAACAGCTCCTCTG
56750	I		A	TCCTTTGTTTAAATCAAGATAGACACCCCTACCCCCAAACTC
56750	P	g	A	ATGACGTGGCAGACGAGCACACTTCAGGATG
56750	P	t	A	CGCGCCGAGGTAGCACACTTCAGGATGA
56750	T	g	A	ATTCTCATCCTGAAGTGTGCTCAGTTTGGGGGTAGGGGTGTCTATCTTGATTTAAACAAAGGACA
56750	T	t	A	ATTCTCATCCTGAAGTGTGCTAAGTTTGGGGGTAGGGGTGTCTATCTTGATTTAAACAAAGGACA
56750	IS	[gt]		TTTGGTCTCAAGGCATTTGTCCTTTGTTTAAATCAAGATAGACACCCCTACCCCCAAACT[gt]AGCACACTTCAGGATGA GAATGTCGGCCCAGGGAAGTCAGCCCGCCTCGGTGTGAATGAC
56903	I		S	TCATTCTTGAACTTTACATGGACCTCACTGTGGGCCT
56903	P	C	S	ATGACGTGGCAGACGTCAGCAGCCAGCAY
56903	P	T	S	CGCGCCGAGGATCAGCAGCCAGCAY
56903	T	C	S	TACATGCTGGCTGCTGACGGCCCACAGTGAGGTCCATGTAAAGTTCAAGAATGAAA
56903	T	T	S	TACATGCTGGCTGCTGATGGCCCACAGTGAGGTCCATGTAAAGTTCAAGAATGAAA

SEQUENCE LISTING

FIGURE 129D

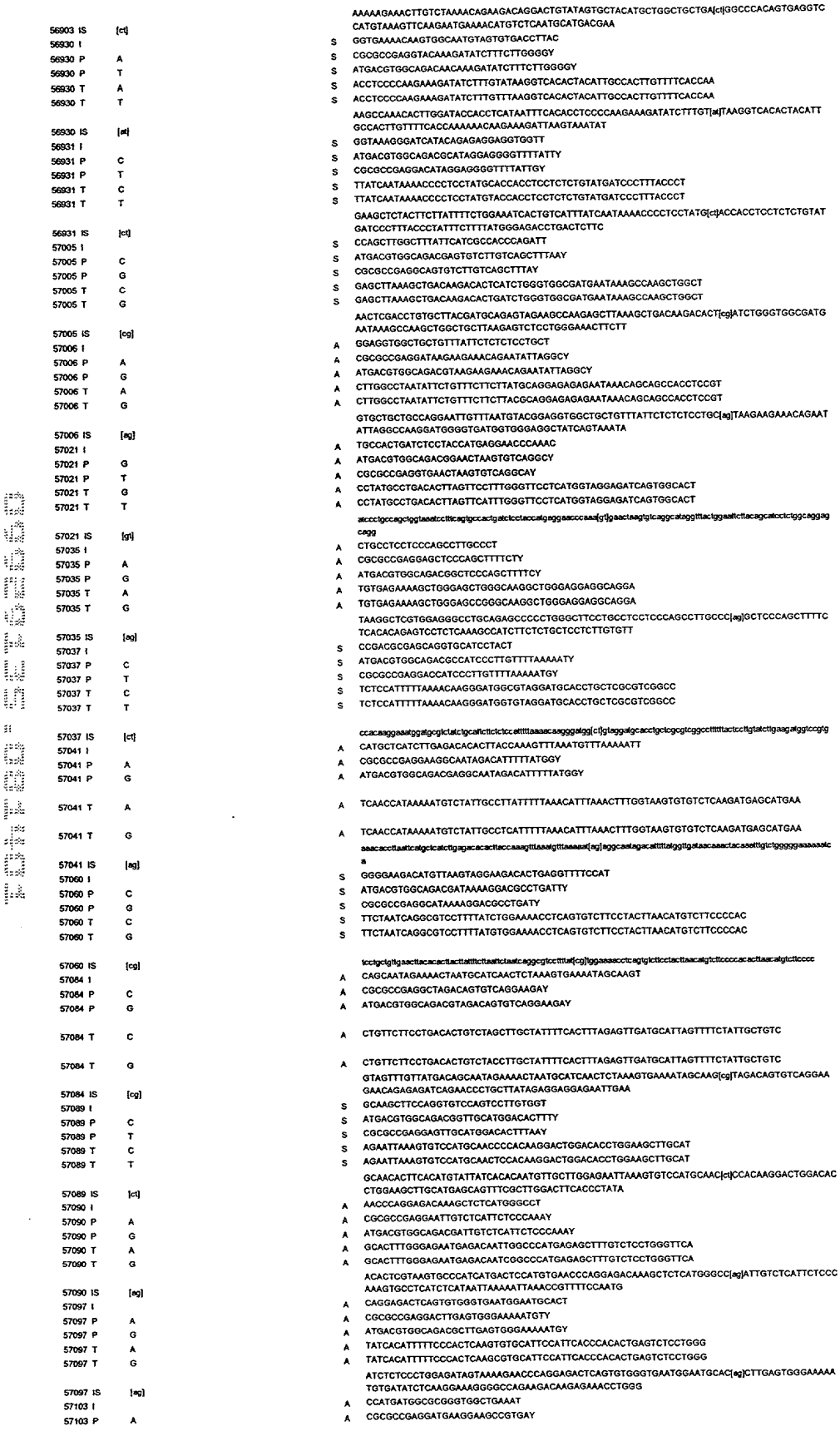


FIGURE 129D

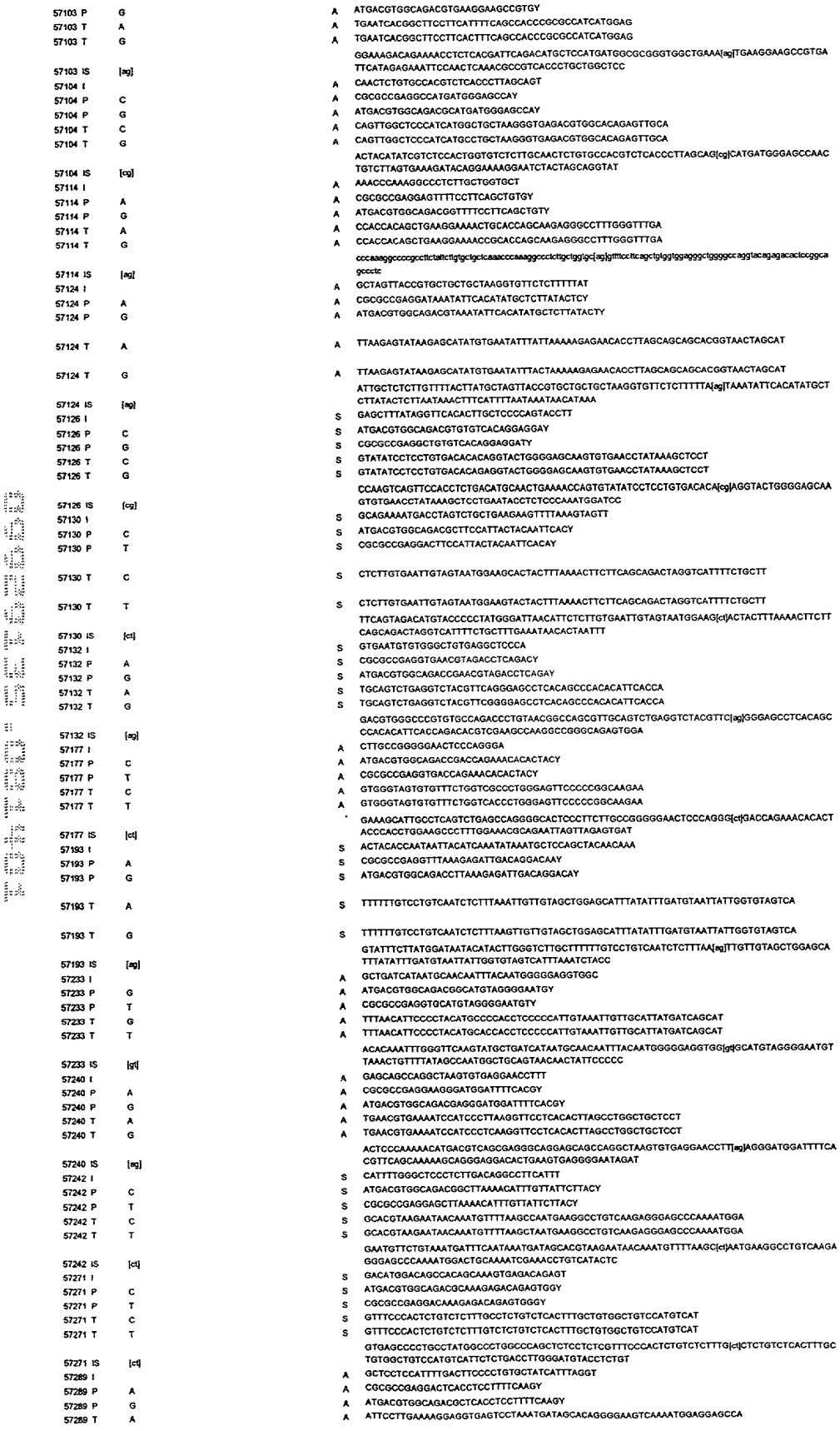

57103 P G A ATGACGTGGCAGACGTGAAGGAAGCCGTGY
57103 T A A TGAATCACGGCTTCCTTCATTTTCAGCCACCCGCGCCATCATGGAG
57103 T G A TGAATCACGGCTTCCTTCACTTTCAGCCACCCGCGCCATCATGGAG
GGAAAGACAGAAAACCTCTCACGATTCAGACATGCTCCATGATGGCGCGGGTGGCTGAAA[ag]TGAAGGAAGCCGTGA
57103 IS [ag] TTCATAGAGAAATTCCAACTCAAACGCCGTCACCCTGCTGGCTCC
57104 I A CAACTCTGTGCCACGTCTCACCCTTAGCAGT
57104 P C A CGCGCCGAGGCCATGATGGGAGCCAY
57104 P G A ATGACGTGGCAGACGCATGATGGGAGCCAY
57104 T C A CAGTTGGCTCCCATCATGGCTGCTAAGGGTGAGACGTGGCACAGAGTTGCA
57104 T G A CAGTTGGCTCCCATCATGCCTGCTAAGGGTGAGACGTGGCACAGAGTTGCA
ACTACATATCGTCTCCACTGGTGTCTCTTGCAACTCTGTGCCACGTCTCACCCTTAGCAG[cg]CATGATGGGAGCCAAC
57104 IS [cg] TGTCTTAGTGAAAGATACAGGAAAAGGAATCTACTAGCAGGTAT
57114 I A AAACCCAAAGGCCCTCTTGCTGGTGCT
57114 P A A CGCGCCGAGGAGTTTTCCTTCAGCTGTGY
57114 P G A ATGACGTGGCAGACGGTTTTCCTTCAGCTGTY
57114 T A A CCACCACAGCTGAAGGAAAACTGCACCAGCAAGAGGGCCTTTGGGTTTGA
57114 T G A CCACCACAGCTGAAGGAAAACCGCACCAGCAAGAGGGCCTTTGGGTTTGA
cccaaaggcccgccttctattcttgtgctgctcaaacccaaaggcccictgctggtgc[ag]gtttccttcagctgtggtggagggctggggccaggtacagagagacactccggca
57114 IS [ag] gccctc
57124 I A GCTAGTTACCGTGCTGCTGCTAAGGTGTTCTCTTTTTAT
57124 P A A CGCGCCGAGGATAAATATTCACATATGCTCTTATACTCY
57124 P G A ATGACGTGGCAGACGTAAATATTCACATATGCTCTTATACTY
57124 T A A TTAAGAGTATAAGAGCATATGTGAATATTTATTAAAAAGAGAACACCTTAGCAGCAGCACGGTAACTAGCAT
57124 T G A TTAAGAGTATAAGAGCATATGTGAATATTTACTAAAAAGAGAACACCTTAGCAGCAGCACGGTAACTAGCAT
ATTGCTCTCTTGTTTTACTTATGCTAGTTACCGTGCTGCTGCTAAGGTGTTCTCTTTTTA[ag]TAAATATTCACATATGCT
57124 IS [ag] CTTATACTCTTAATAAACTTTCATTTTAATAAATAACATAAA
57126 I S GAGCTTTATAGGTTCACACTTGCTCCCCAGTACCTT
57126 P C S ATGACGTGGCAGACGTGTGTCACAGGAGGAY
57126 P G S CGCGCCGAGGCTGTGTCACAGGAGGATY
57126 T C S GTATATCCTCCTGTGACACACAGGTACTGGGGAGCAAGTGTGAACCTATAAAGCTCCT
57126 T G S GTATATCCTCCTGTGACACAGAGGTACTGGGGAGCAAGTGTGAACCTATAAAGCTCCT
CCAAGTCAGTTCCACCTCTGACATGCAACTGAAAACCAGTGTATATCCTCCTGTGACACA[cg]AGGTACTGGGGAGCAA
57126 IS [cg] GTGTGAACCTATAAAGCTCCTGAATACCTCTCCCAAATGGATCC
57130 I S GCAGAAAATGACCTAGTCTGCTGAAGAAGTTTTAAAGTAGTT
57130 P C S ATGACGTGGCAGACGCTTCCATTACTACAATTCACY
57130 P T S CGCGCCGAGGACTTCCATTACTACAATTCACAY
57130 T C S CTCTTGTGAATTGTAGTAATGGAAGCACTACTTTAAAACTTCTTCAGCAGACTAGGTCATTTTCTGCTT
57130 T T S CTCTTGTGAATTGTAGTAATGGAAGTACTACTTTAAAACTTCTTCAGCAGACTAGGTCATTTTCTGCTT
TTCAGTAGACATGTACCCCCTATGGGATTAACATTCTCTTGTGAATTGTAGTAATGGAAG[ct]ACTACTTTAAAACTTCTT
57130 IS [ct] CAGCAGACTAGGTCATTTTCTGCTTTGAAATAACACTAATTT
57132 I S GTGAATGTGTGGGCTGTGAGGCTCCCA
57132 P A S CGCGCCGAGGTGAACGTAGACCTCAGACY
57132 P G S ATGACGTGGCAGACCGAACGTAGACCTCAGAY
57132 T A S TGCAGTCTGAGGTCTACGTTCAGGGAGCCTCACAGCCCACACATTCACCA
57132 T G S TGCAGTCTGAGGTCTACGTTCGGGGAGCCTCACAGCCCACACATTCACCA
GACGTGGGCCCGTGTGCCAGACCCTGTAACGGCCAGCGTTGCAGTCTGAGGTCTACGTTC[ag]GGGAGCCTCACAGC
57132 IS [ag] CCACACATTCACCAGACACGTCGAAGCCAAGGCCGGGCAGAGTGGA
57177 I A CTTGCCGGGGGAACTCCCAGGGA
57177 P C A ATGACGTGGCAGACCGACCAGAAACACACTACY
57177 P T A CGCGCCGAGGTGACCAGAAACACACTACY
57177 T C A GTGGGTAGTGTGTTTCTGGTCGCCCTGGGAGTTCCCCCGGCAAGAA
57177 T T A GTGGGTAGTGTGTTTCTGGTCACCCTGGGAGTTCCCCCGGCAAGAA
GAAAGCATTGCCTCAGTCTGAGCCAGGGGCACTCCCTTCTTGCCGGGGGAACTCCCAGGG[ct]GACCAGAAACACACT
57177 IS [ct] ACCCACCTGGAAGCCCTTTGGAAACGCAGAATTAGTTAGAGTGAT
57193 I S ACTACACCAATAATTACATCAAATATAAATGCTCCAGCTACAACAAA
57193 P A S CGCGCCGAGGTTTAAAGAGATTGACAGGACAAY
57193 P G S ATGACGTGGCAGACCTTAAAGAGATTGACAGGACAY
57193 T A S TTTTTTGTCCTGTCAATCTCTTTAAATTGTTGTAGCTGGAGCATTTATATTTGATGTAATTATTGGTGTAGTCA
57193 T G S TTTTTTGTCCTGTCAATCTCTTTAAGTTGTTGTAGCTGGAGCATTTATATTTGATGTAATTATTGGTGTAGTCA
GTATTTCTTATGGATAATACATACTTGGGTCTTGCTTTTTTGTCCTGTCAATCTCTTTAA[ag]TTGTTGTAGCTGGAGCA
57193 IS [ag] TTTATATTTGATGTAATTATTGGTGTAGTCATTTAAATCTACC
57233 I A GCTGATCATAATGCAACAATTTACAATGGGGGAGGTGGC
57233 P G A ATGACGTGGCAGACGGCATGTAGGGGAATGY
57233 P T A CGCGCCGAGGTGCATGTAGGGGAATGTY
57233 T G A TTTAACATTCCCCTACATGCCCCACCTCCCCCATTGTAAATTGTTGCATTATGATCAGCAT
57233 T T A TTTAACATTCCCCTACATGCACCACCTCCCCCATTGTAAATTGTTGCATTATGATCAGCAT
ACACAAATTTGGGTTCAAGTATGCTGATCATAATGCAACAATTTACAATGGGGGAGGTGG[gt]GCATGTAGGGGAATGT
57233 IS [gt] TAAACTGTTTTATAGCCAATGGCTGCAGTAACAACTATTCCCCC
57240 I A GAGCAGCCAGGCTAAGTGTGAGGAACCTTT
57240 P A A CGCGCCGAGGAAGGGATGGATTTTCACGY
57240 P G A ATGACGTGGCAGACGAGGGATGGATTTTCACGY
57240 T A A TGAACGTGAAAATCCATCCCTTAAGGTTCCTCACACTTAGCCTGGCTGCTCCT
57240 T G A TGAACGTGAAAATCCATCCCTCAAGGTTCCTCACACTTAGCCTGGCTGCTCCT
ACTCCCAAAAACATGACGTCAGCGAGGGCAGGAGCAGCCAGGCTAAGTGTGAGGAACCTT[ag]AGGGATGGATTTTCA
57240 IS [ag] CGTTCAGCAAAAAGCAGGGAGGACACTGAAGTGAGGGGAATAGAT
57242 I S CATTTTGGGCTCCCTCTTGACAGGCCTTCATTT
57242 P C S ATGACGTGGCAGACGGCTTAAAACATTTGTTATTCTTACY
57242 P T S CGCGCCGAGGAGCTTAAAACATTTGTTATTCTTACY
57242 T C S GCACGTAAGAATAACAAATGTTTTAAGCCAATGAAGGCCTGTCAAGAGGGAGCCCAAAATGGA
57242 T T S GCACGTAAGAATAACAAATGTTTTAAGCTAATGAAGGCCTGTCAAGAGGGAGCCCAAAATGGA
GAATGTTCTGTAAATGATTTCAATAAATGATAGCACGTAAGAATAACAAATGTTTTAAGC[ct]AATGAAGGCCTGTCAAGA
57242 IS [ct] GGGAGCCCAAAATGGACTGCAAAATCGAAACCTGTCATACTC
57271 I S GACATGGACAGCCACAGCAAAGTGAGACAGAGT
57271 P C S ATGACGTGGCAGACGCAAAGAGACAGAGTGGY
57271 P T S CGCGCCGAGGACAAAGAGACAGAGTGGGY
57271 T C S GTTTCCCACTCTGTCTCTTTGCCTCTGTCTCACTTTGCTGTGGCTGTCCATGTCAT
57271 T T S GTTTCCCACTCTGTCTCTTTGTCTCTGTCTCACTTTGCTGTGGCTGTCCATGTCAT
GTGAGCCCCTGCCTATGGCCCTGGCCCAGCTCTCCTCTCGTTTCCCACTCTGTCTCTTTG[ct]CTCTGTCTCACTTTGC
57271 IS [ct] TGTGGCTGTCCATGTCATTCTCTGACCTTGGGATGTACCTCTGT
57289 I A GCTCCTCCATTTTGACTTCCCCTGTGCTATCATTTAGGT
57289 P A A CGCGCCGAGGACTCACCTCCTTTTCAAGY
57289 P G A ATGACGTGGCAGACGCTCACCTCCTTTTCAAGY
57289 T A A ATTCCTTGAAAAGGAGGTGAGTCCTAAATGATAGCACAGGGGAAGTCAAAATGGAGGAGCCA

FIGURE 129D

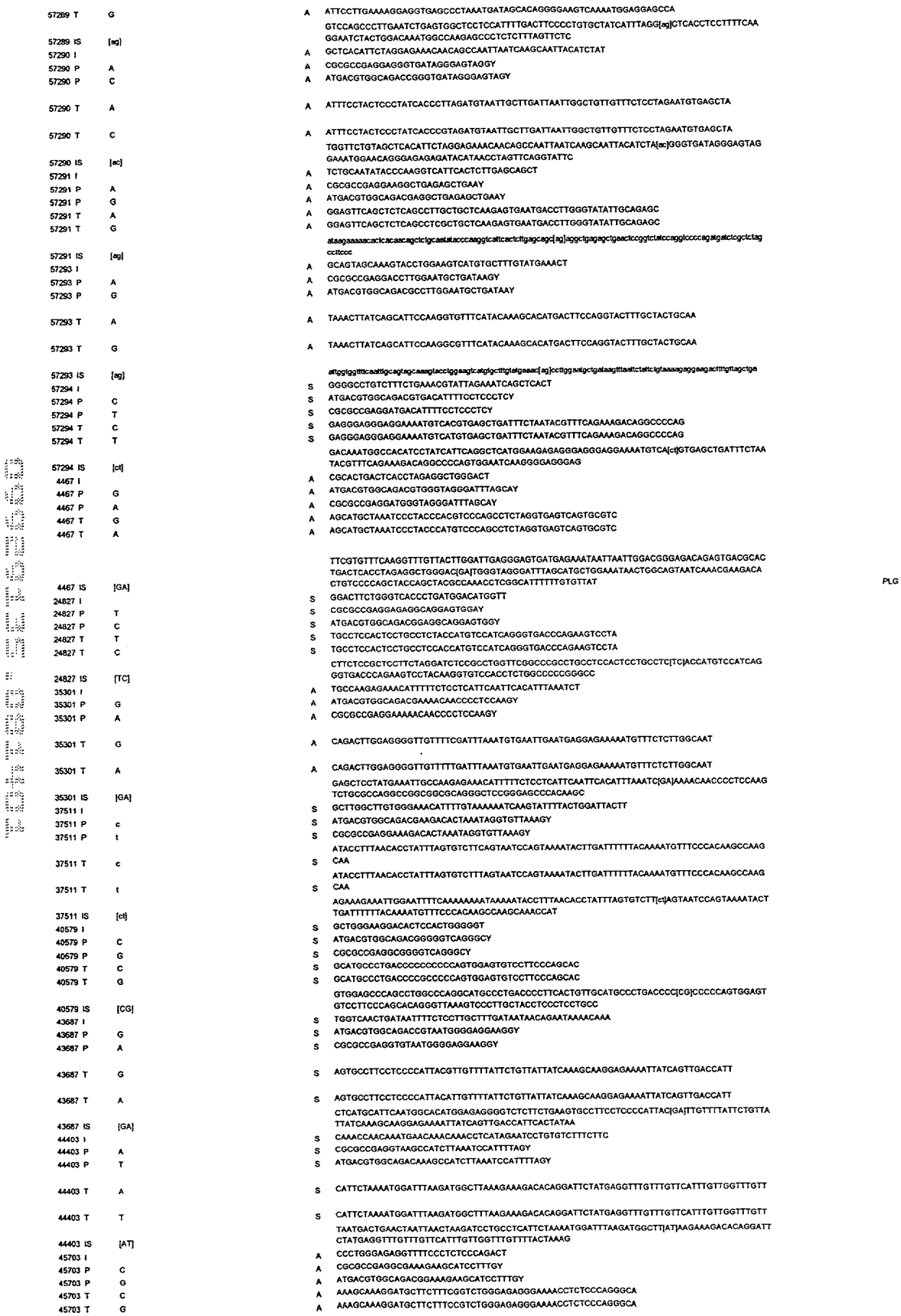


FIGURE 129D

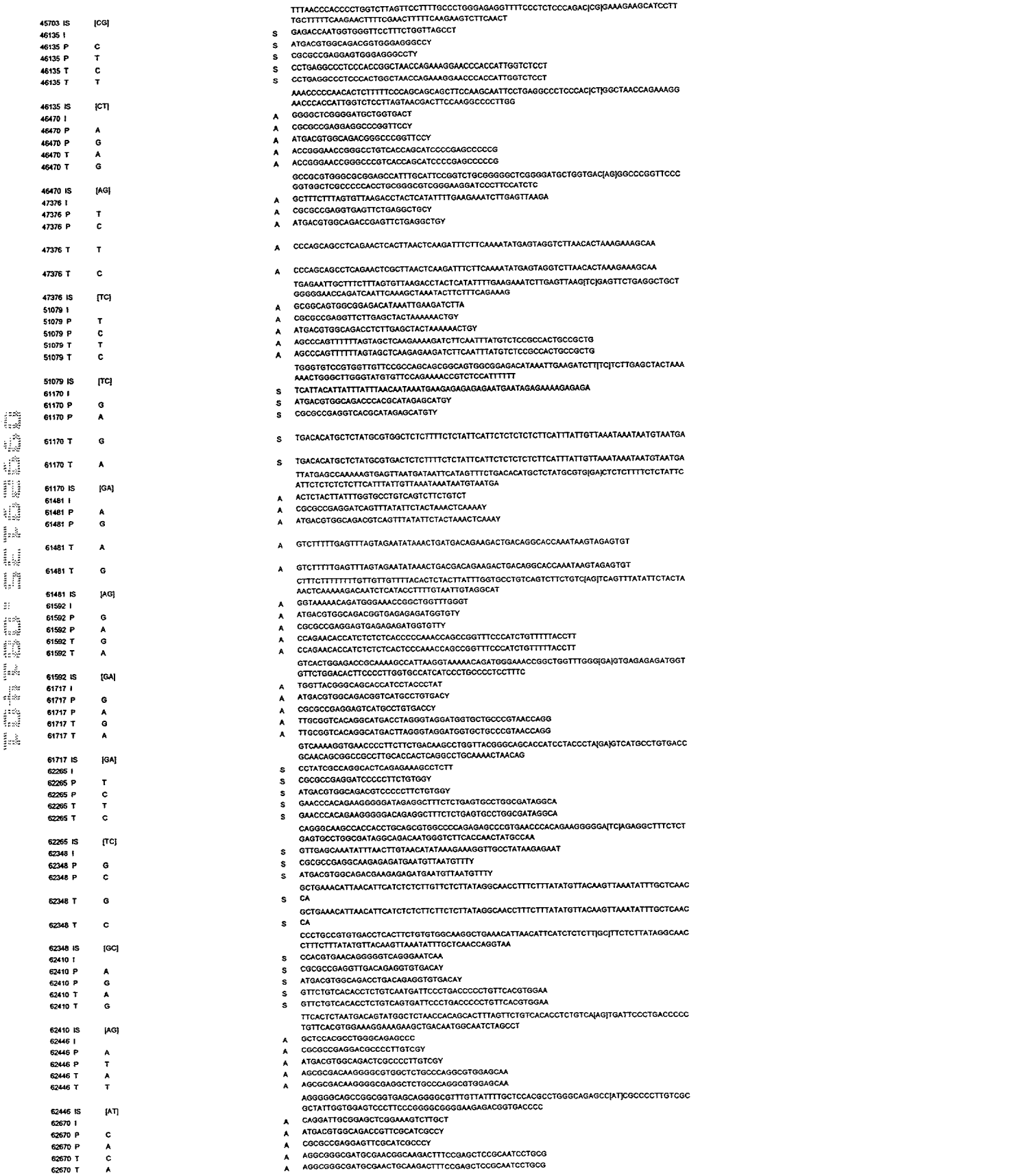


FIGURE 129D

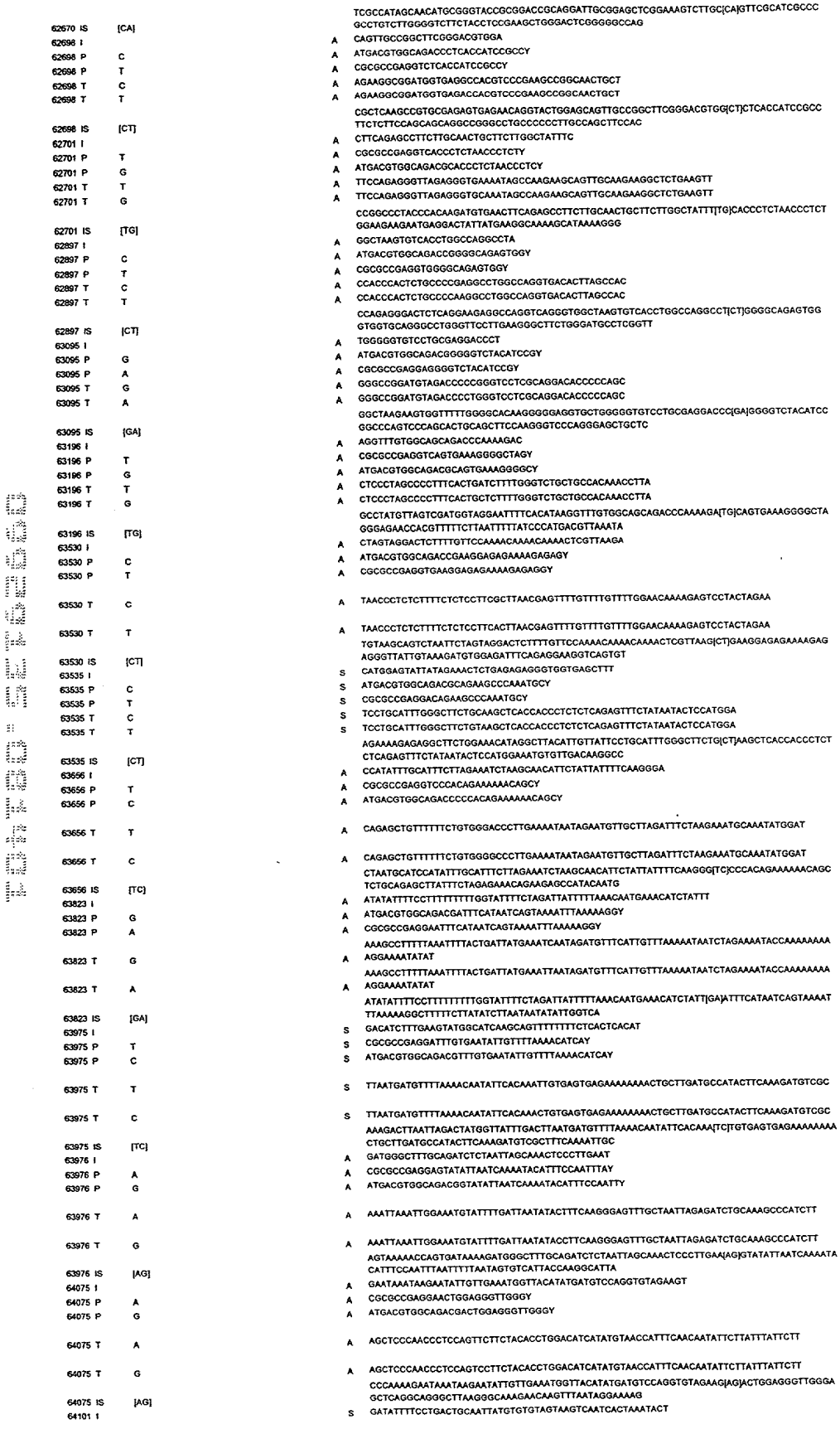
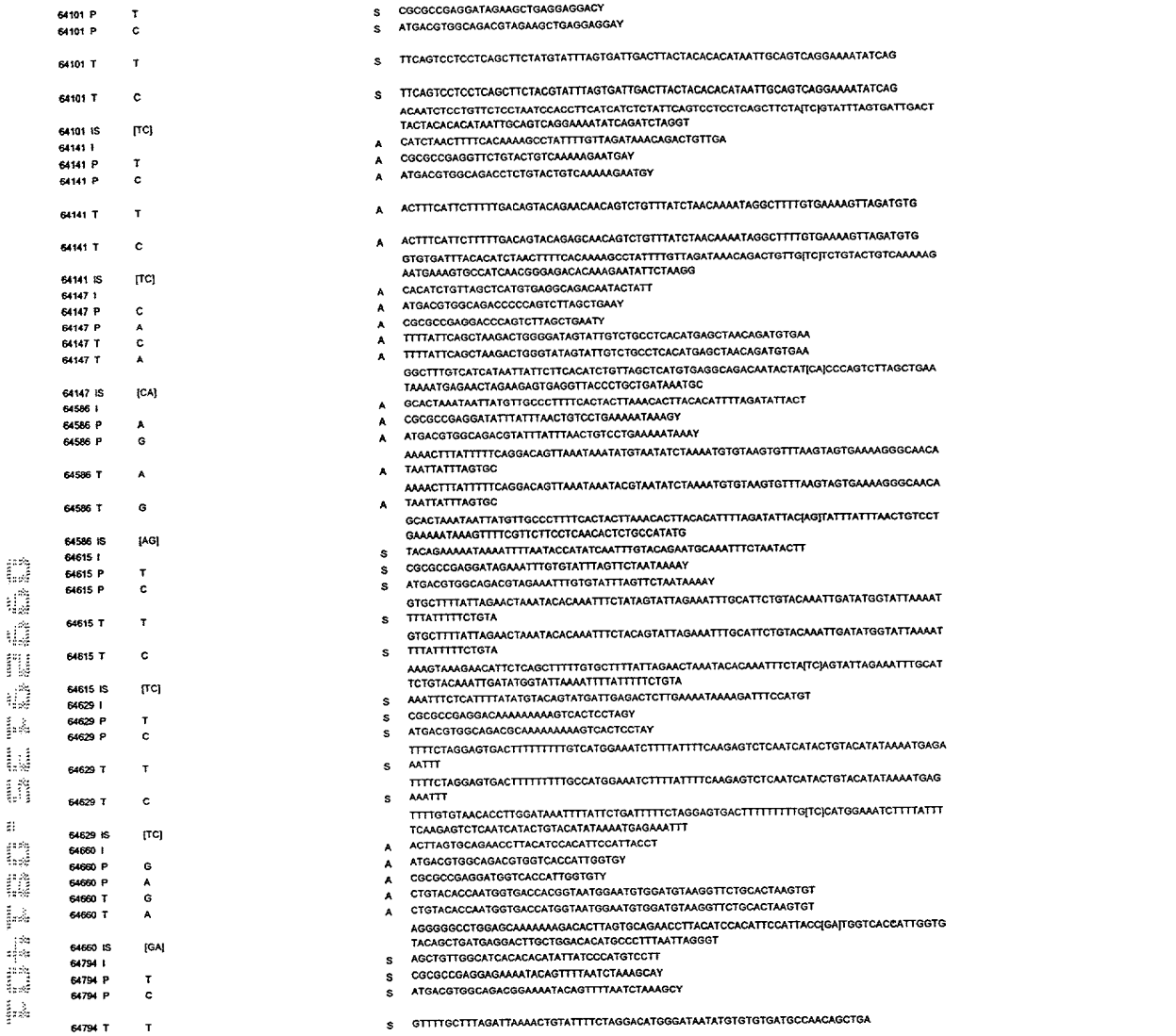

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62698 I
62698 P C
62698 P T
62698 T C
62698 T T
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CGCGCCGAGGTCTCACCATCCGCCY
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CGCTCAAGCCGTGCGAGAGTGAGAACAGGTACTGGAGCAGTTGCCGGCTTCGGGACGTGG[CT]CTCACCATCCGCC
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62698 IS [CT]
62701 I
62701 P T
62701 P G
62701 T T
62701 T G
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62897 P C
62897 P T
62897 T C
62897 T T
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63095 P G
63095 P A
63095 T G
63095 T A
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63196 P T
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63196 T G
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63196 IS [TG]
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63530 P C
63530 P T
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63530 T C
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63530 T T
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63535 P C
63535 P T
63535 T C
63535 T T
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63535 IS [CT]
63656 I
63656 P T
63656 P C
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63656 T C
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63823 P G
63823 P A
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63823 T G
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63823 T A
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63823 IS [GA]
63975 I
63975 P T
63975 P C
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63975 T C
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63976 I
63976 P A
63976 P G
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63976 T G
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64075 P A
64075 P G
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64075 T G
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GCTCAGGCAGGGCTTAAGGGCAAAGAACAAGTTTAATAGGAAAAG
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64101 I
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FIGURE 129D



DKFZP434E2135

FIGURE 129D

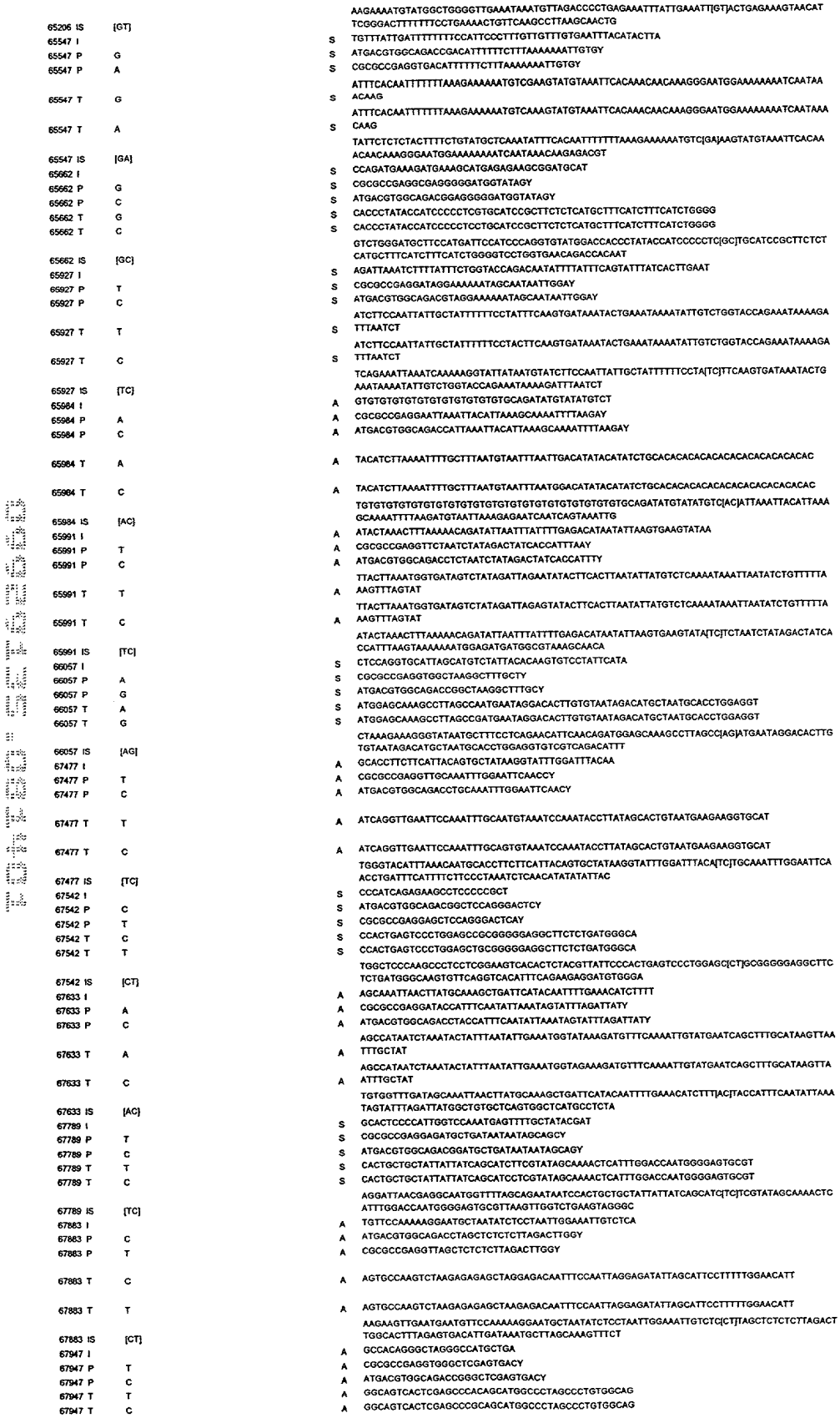
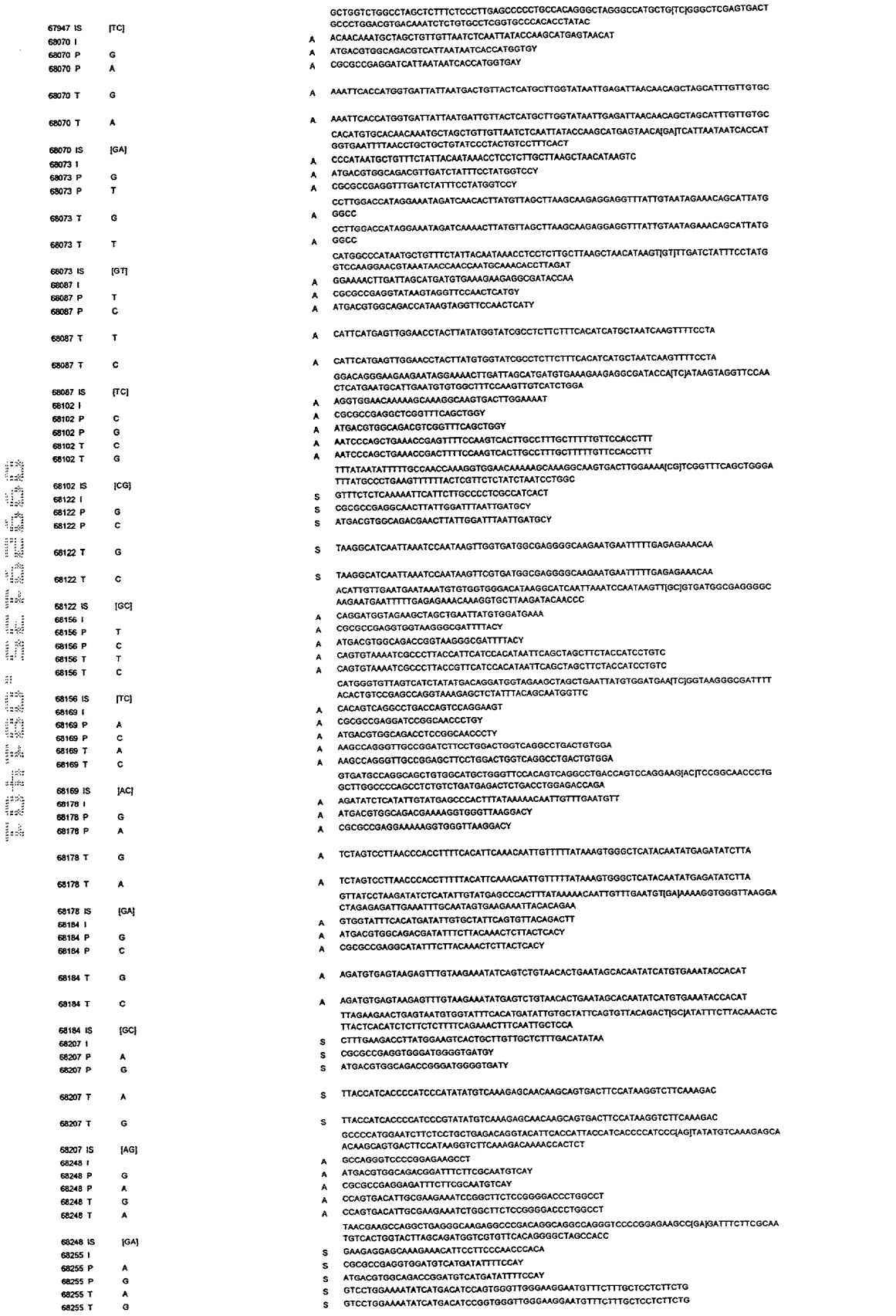


FIGURE 129D



AFAP

FIGURE 129D

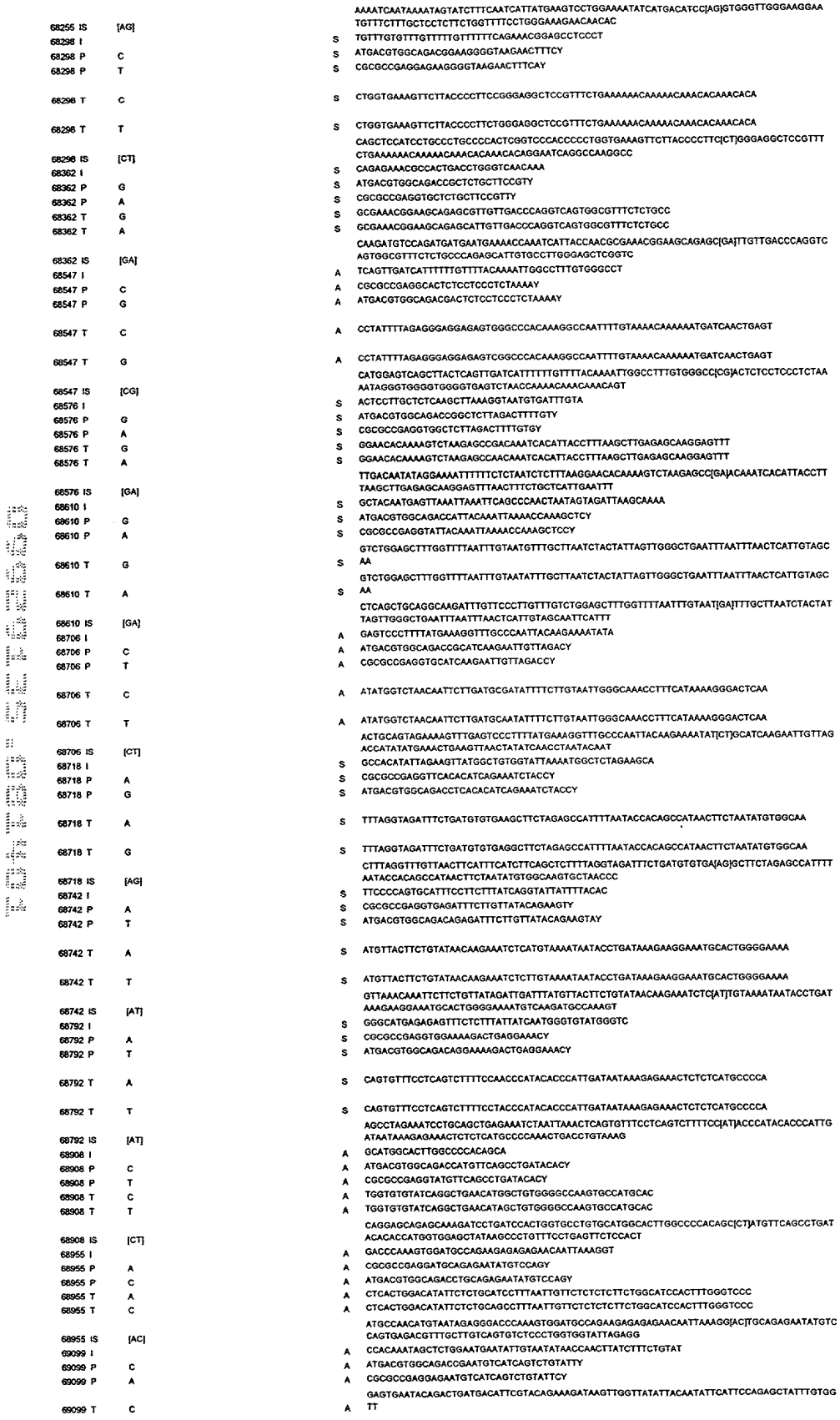

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68298 P C S ATGACGTGGCAGACGGAAGGGGTAAGAACTTTCY
68298 P T S CGCGCCGAGGAGAAGGGGTAAGAACTTTCAY
68298 T C S CTGGTGAAAGTTCTTACCCCTTCCGGGAGGCTCCGTTTCTGAAAAAACAAAAACAAACACAAACACA
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68362 P A S ATGACGTGGCAGACCGCTCTGCTTCCGTY
68362 T G S CGCGCCGAGGTGCTCTGCTTCCGTTY
68362 T A S GCGAAACGGAAGCAGAGCGTTGTTGACCCAGGTCAGTGGCGTTTCTCTGCC
68362 IS [GA] S GCGAAACGGAAGCAGAGCATTGTTGACCCAGGTCAGTGGCGTTTCTCTGCC
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68547 P G A TCAGTTGATCATTTTTTGTTTTACAAAATTGGCCTTTGTGGGCCT
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68576 T A S ATGACGTGGCAGACCGGCTCTTAGACTTTTGTY
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68610 T A S GCTACAATGAGTTAAATTAAATTCAGCCCAACTAATAGTAGATTAAGCAAAA
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68706 T C GTCTGGAGCTTTGGTTTTAATTTGTAATATTTGCTTAATCTACTATTAGTTGGGCTGAATTTAATTTAACTCATTGTAGC
68706 T T S AA
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68742 T A S CGCGCCGAGGTTCACACATCAGAAATCTACCY
68742 T T S ATGACGTGGCAGACCTCACACATCAGAAATCTACCY
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68792 T T S CGCGCCGAGGTGAGATTTCTTGTTATACAGAAGTY
68792 IS [AT] S ATGACGTGGCAGACAGAGATTTCTTGTTATACAGAAGTAY
68908 I S ATGTTACTTCTGTATAACAAGAAATCTCATGTAAAATAATACCTGATAAAGAAGGAAATGCACTGGGGAAAA
68908 P C S ATGTTACTTCTGTATAACAAGAAATCTCTTGTAAAATAATACCTGATAAAGAAGGAAATGCACTGGGGAAAA
68908 P T GTTAAACAAATTCTTCTGTTATAGATTGATTTATGTTACTTCTGTATAACAAGAAATCTC[AT]TGTAAAATAATACCTGAT
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68908 T T S GGGCATGAGAGAGTTTCTCTTTATTATCAATGGGTGTATGGGTC
68908 IS [CT] S CGCGCCGAGGTGGAAAAGACTGAGGAAACY
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68955 P C S CAGTGTTTCCTCAGTCTTTTCCTACCCATACACCCATTGATAATAAAGAGAAACTCTCTCATGCCCCA
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68955 T C ATAATAAAGAGAAACTCTCTCATGCCCCAAACTGACCTGTAAAG
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69099 I A ATGACGTGGCAGACCATGTTCAGCCTGATACACY
69099 P C A CGCGCCGAGGTATGTTCAGCCTGATACACY
69099 P A S TGGTGTGTATCAGGCTGAACATGGCTGTGGGGCCAAGTGCCATGCAC
69099 T A S TGGTGTGTATCAGGCTGAACATAGCTGTGGGGCCAAGTGCCATGCAC
69099 T C CAGGAGCAGAGCAAAGATCCTGATCCACTGGTGCCTGTGCATGGCACTTGGCCCCACAGC[CT]ATGTTCAGCCTGAT
69099 IS [AC] A ACACACCATGGTGGAGCTATAAGCCCTGTTTCCTGAGTTCTCCACT
69099 T C A GACCCAAAGTGGATGCCAGAAGAGAGAGAACAATTAAAGGT
69099 T T A CGCGCCGAGGATGCAGAGAATATGTCCAGY
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A TT

FIGURE 129D

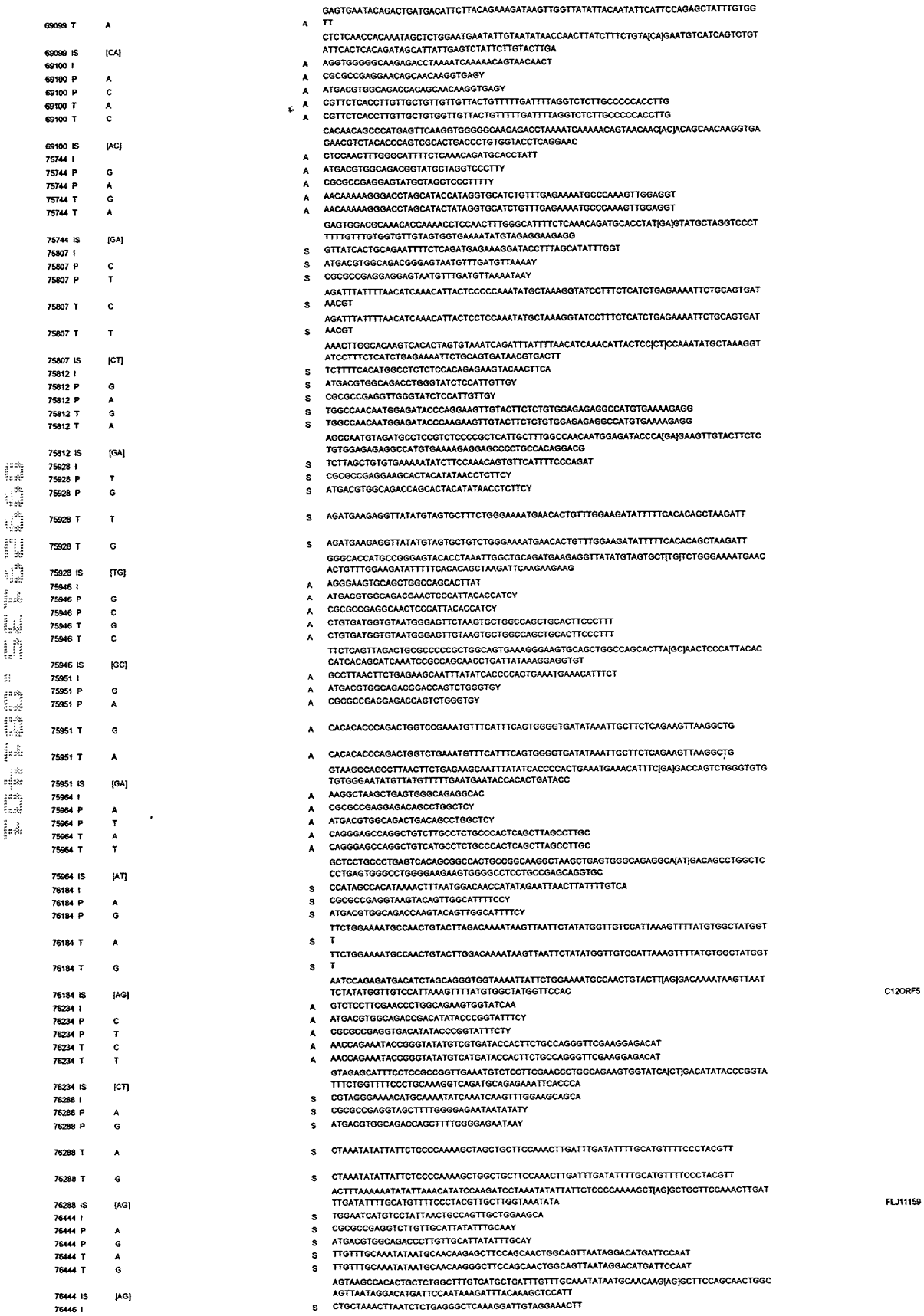

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75744 T A A AACAAAAAGGGACCTAGCATACTATAGGTGCATCTGTTTGAGAAAATGCCCAAAGTTGGAGGT
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75807 P T S CGCGCCGAGGAGGAGTAATGTTTGATGTTAAAATAAY
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75807 T C S AACGT
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75812 P A S CGCGCCGAGGTTGGGTATCTCCATTGTTGY
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75964 P A A CGCGCCGAGGAGACAGCCTGGCTCY
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76184 I S CCATAGCCACATAAAACTTTAATGGACAACCATATAGAATTAACTTATTTTGTCA
76184 P A S CGCGCCGAGGTAAGTACAGTTGGCATTTTCCY
76184 P G S ATGACGTGGCAGACCAAGTACAGTTGGCATTTTCY
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TTCTGGAAAATGCCAACTGTACTTGGACAAAATAAGTTAATTCTATATGGTTGTCCATTAAAGTTTTATGTGGCTATGGT
76184 T G S T
AATCCAGAGATGACATCTAGCAGGGTGGTAAAATTATTCTGGAAAATGCCAACTGTACTT[AG]GACAAAATAAGTTAAT
76184 IS [AG]
TCTATATGGTTGTCCATTAAAGTTTTATGTGGCTATGGTTCCAC
76234 I A GTCTCCTTCGAACCCTGGCAGAAGTGGTATCAA
76234 P C A ATGACGTGGCAGACCGACATATACCCGGTATTTCY
76234 P T A CGCGCCGAGGTGACATATACCCGGTATTTCTY
76234 T C A AACCAGAAATACCGGGTATATGTCGTGATACCACTTCTGCCAGGGTTCGAAGGAGACAT
76234 T T A AACCAGAAATACCGGGTATATGTCATGATACCACTTCTGCCAGGGTTCGAAGGAGACAT
GTAGAGCATTTCCTCCGCCGGTTGAAATGTCTCCTTCGAACCCTGGCAGAAGTGGTATCA[CT]GACATATACCCGGTA
76234 IS [CT]
TTTCTGGTTTTCCCTGCAAAGGTCAGATGCAGAGAAATTCACCCA
76288 I S CGTAGGGAAAACATGCAAAATATCAAATCAAGTTTGGAAGCAGCA
76288 P A S CGCGCCGAGGTAGCTTTTGGGGAGAATAATATATY
76288 P G S ATGACGTGGCAGACCAGCTTTTGGGGAGAATAAY
76288 T A S CTAAATATATTATTCTCCCCAAAAGCTAGCTGCTTCCAAACTTGATTTGATATTTTGCATGTTTTCCCTACGTT
76288 T G S CTAAATATATTATTCTCCCCAAAAGCTGGCTGCTTCCAAACTTGATTTGATATTTTGCATGTTTTCCCTACGTT
ACTTTAAAAAATATATTAAACATATCCAAGATCCTAAATATATTATTCTCCCCAAAAGCT[AG]GCTGCTTCCAAACTTGAT
76288 IS [AG]
TTGATATTTTGCATGTTTTCCCTACGTTGCTTGGTAAATATA
76444 I S TGGAATCATGTCCTATTAACTGCCAGTTGCTGGAAGCA
76444 P A S CGCGCCGAGGTCTTGTTGCATTATATTTGCAAY
76444 P G S ATGACGTGGCAGACCCTTGTTGCATTATATTTGCAY
76444 T A S TTGTTTGCAAATATAATGCAACAAGAGCTTCCAGCAACTGGCAGTTAATAGGACATGATTCCAAT
76444 T G S TTGTTTGCAAATATAATGCAACAAGGGCTTCCAGCAACTGGCAGTTAATAGGACATGATTCCAAT
AGTAAGCCACACTGCTCTGGCTTTGTCATGCTGATTTGTTTGCAAATATAATGCAACAAG[AG]GCTTCCAGCAACTGGC
76444 IS [AG]
AGTTAATAGGACATGATTCCAATAAAGATTTACAAAGCTCCATT
76446 I S CTGCTAAACTTAATCTCTGAGGGCTCAAAGGATTGTAGGAAACTT
C12ORF5
FLJ11159

FIGURE 129D

76446 P	T	S	CGCGCCGAGGATTCACAGAATGAGACTGAACY		
76446 P	C	S	ATGACGTGGCAGACGTTCACAGAATGAGACTGAAY		
76445 T	T	S	CAAAGTTCAGTCTCATTCTGTGAATAGTTTCCTACAATCCTTTGAGCCCTCAGAGATTAAGTTTAGCAGGT		
76446 T	C	S	CAAAGTTCAGTCTCATTCTGTGAACAGTTTCCTACAATCCTTTGAGCCCTCAGAGATTAAGTTTAGCAGGT		
76446 IS	[TC]		GGCTGGATTCTGCGTGGTGATAGCAGAATTCCCTGGCAAAGTTCAGTCTCATTCTGTGAA[TC]AGTTTCCTACAATCC TTTGAGCCCTCAGAGATTAAGTTTAGCAGGTTTCCAAAAAAAAGC		
76513 I		A	TGTACATGTCACTAGGAGCATCCCTGATCTCAAAAAACTCTGA		
76513 P	C	A	ATGACGTGGCAGACCCACCCCTCCTGTGY		
76513 P	T	A	CGCGCCGAGGTCACCCCTCCTGTGAY		
76513 T	C	A	GACTTCACAGGAGGGGTGGCAGAGTTTTTTGAGATCAGGGATGCTCCTAGTGACATGTACAAG		
76513 T	T	A	GACTTCACAGGAGGGGTGACAGAGTTTTTTGAGATCAGGGATGCTCCTAGTGACATGTACAAG		
76513 IS	[CT]		TGGCTTTCTTCATGATCTTGTACATGTCACTAGGAGCATCCCTGATCTCAAAAAACTCTG[CT]CACCCCTCCTGTGAAG TCCTCCATGGCCTCTGTGGTGTTCCCACCTTTCAGAGCTTCGTA		CAPN3
76642 I		S	TTACTATATGTAATAGACTTTATTTTTCAAAATAAAATTAGAATTAACAAAAAAATCATAA		
76642 P	A	S	CGCGCCGAGGTAGTTTGGAAAGAGAAAAATGCY		
76642 P	G	S	ATGACGTGGCAGACCAGTTTGGAAAGAGAAAAATGCY		
76642 T	A	S	TATTGCATTTTTCTCTTTCCAAACTATATGATTTTTTTGTTAATTCTAATTTTATTTTGAAAAATAAAGTCTATTACATATA GTAA		
76642 T	G	S	TATTGCATTTTTCTCTTTCCAAACTGTATGATTTTTTTGTTAATTCTAATTTTATTTTGAAAAATAAAGTCTATTACATATA GTAA		
76642 IS	[AG]		CAAATACATTCTCTTAGGCTATGGCATTATAGATTTATTGCATTTTTCTCTTTCCAAACT[AG]TATGATTTTTTTGTTAAT TCTAATTTTATTTTGAAAAATAAAGTCTATTACATATAGTAA		
76672 I		A	GCCCACCTGTCGCGCCTGGTT		
76672 P	A	A	CGCGCCGAGGATGCGCATGCGTACY		
76672 P	G	A	ATGACGTGGCAGACGTGCGCATGCGTACY		
76672 T	A	A	CTTAGTACGCATGCGCATACCAGGCGCGACAGGTGGGCGG		
76672 T	G	A	CTTAGTACGCATGCGCACACCAGGCGCGACAGGTGGGCGG		
76672 IS	[AG]		TTCCGGGACAACACAGCCCTAGGCGTCGCCTTCTGTGTCCGCCCACCTGTCGCGCCTGGT[AG]TGCGCATGCGTACT AAGTGCGAACCTTTCTCTGCCCCGCCCATAATCTTTAGATTTGCCT		
76693 I		A	CCGTCCTCGGGGGGGTCTCCTA		
76693 P	C	A	ATGACGTGGCAGACCCCCCCCACTTAAGTCY		
76693 P	T	A	CGCGCCGAGGTCCCCCCACTTAAGTCY		
76693 T	C	A	AAGAGACTTAAGTGGGGGGGAGGAGACCCCCCCGAGGACGGAG		
76693 T	T	A	AAGAGACTTAAGTGGGGGGAAGGAGACCCCCCCGAGGACGGAG		
76693 IS	[CT]		AGCGCCCCCGGGGCTGACCAGGCCGTGGCCGGCGCCTCTCCGTCCTCGGGGGGGTCTCCT[CT]CCCCCCACTTAA GTCTCTTCTGCTCGCGGTCATGCCCTGGGCCTCAGGAAAGACCGCGCC		
76773 I		S	GGTGGCACCTTGCCCAGCGCT		
76773 P	C	S	ATGACGTGGCAGACGCGTGCATTCTCCTGY		
76773 P	T	S	CGCGCCGAGGACGTGCATTCTCCTGTY		
76773 T	C	S	TCCCACAGGAGAATGCACGCGCGCTGGGCAAGGTGCCACCCT		
76773 T	T	S	TCCCACAGGAGAATGCACGTGCGCTGGGCAAGGTGCCACCCT		
76773 IS	[CT]		CCTCAACTGACAGGAGACTGCTCACCACATGCCCTCCGAGTTCCCACAGGAGAATGCACG[CT]GCGCTGGGCAAGGT GCCACCCTCGGCTCGGGACGGCAGCCTTGGCGTCTGGCTACGGGCG		
76778 I		A	CCACCTCCTAAGCCTAACCCAGGCAGATGT		
76778 P	A	A	CGCGCCGAGGAAGGCAGGTGGCAY		
76778 P	G	A	ATGACGTGGCAGACGAGGCAGGTGGCAY		
76778 T	A	A	ACGGTGCCACCTGCCTTCATCTGCCTGGGTTAGGCTTAGGAGGTGGGC		
76778 T	G	A	ACGGTGCCACCTGCCTCCATCTGCCTGGGTTAGGCTTAGGAGGTGGGC		
76778 IS	[AG]		GCTGCCTCCTTCCCGCCTCTGCATTGAACGCCCACCTCCTAAGCCTAACCCAGGCAGATG[AG]AGGCAGGTGGCACC GTGGCAGCCCTGGGGAGTGGGAGGAGGTGGGCCTGGGGGGCAGGCC		
76802 I		A	GGCAGGGCTGCTCTGCAGGGGT		
76802 P	G	A	ATGACGTGGCAGACGCGGCGTGAGGGY		
76802 P	A	A	CGCGCCGAGGACGGCGTGAGGGY		
76802 T	G	A	GTGCCCCTCACGCCGCCCCCTGCAGAGCAGCCCTGCCAC		
76802 T	A	A	GTGCCCCTCACGCCGTCCCCTGCAGAGCAGCCCTGCCAC		
76802 IS	[GA]		CCGACAGGGACAGACAGAACGAGCTACAGCGCTCAGGGTGGCAGGGCTGCTCTGCAGGGG[GA]CGGCGTGAGGGG CACAGGCAGGGCATCGCACACTCGCCACAGCCCCAGGAGGCACCGCAC		
76808 I		A	CCAGCCCCTCTTTGCAGACAGCCGA		
76808 P	C	A	ATGACGTGGCAGACCGAGGAGAGTGTCCTAGY		
76808 P	T	A	CGCGCCGAGGTGAGGAGAGTGTCCTAGGY		
76808 T	C	A	GCTGCCTAGGACACTCTCCTCGCGGCTGTCTGCAAAGAGGGGCTGGGG		
76808 T	T	A	GCTGCCTAGGACACTCTCCTCACGGCTGTCTGCAAAGAGGGGCTGGGG		
76808 IS	[CT]		CATCTTGGCCTTCTGATCCCTGTGTGATCCTTGACCCCAGCCCCTCTTTGCAGACAGCCG[CT]GAGGAGAGTGTCCTA GGCAGCGTCCTGCTCCCCAGCTACAATATTAGACCAGATGGGCCG		
76952 I		S	CCAGGCTTCGATTCTATTTGTTACTGTTCTTCTCTCTTTCC		
76952 P	A	S	CGCGCCGAGGTAGAAGCAGACAGCAGTAY		
76952 P	T	S	ATGACGTGGCAGACAAGAAGCAGACAGCAGTY		
76952 T	A	S	TCGGTACTGCTGTCTGCTTCTAGAAAGAGAGAAGAACAGTAACAAATAGAATCGAAGCCTGGAA		
76952 T	T	S	TCGGTACTGCTGTCTGCTTCTTGAAAGAGAGAAGAACAGTAACAAATAGAATCGAAGCCTGGAA		
76952 IS	[AT]		CCAGAGAGAAGACCTTCAAGCAATGGCCCTGGTAAGCATTCGGTACTGCTGTCTGCTTCT[AT]GAAAGAGAGAAGAAC AGTAACAAATAGAATCGAAGCCTGGAAAGTTCAAAAATTTGCTTT		
77012 I		A	GGTCTGTGCACCTAAATACTTTTAAAAGTAGAGATTCCATTAATGAA		
77012 P	T	A	CGCGCCGAGGTGGTGACAAAATAATTATAGAGTGY		
77012 P	C	A	ATGACGTGGCAGACCGGTGACAAAATAATTATAGAGTGY		
77012 T	T	A	ATACCACTCTATAATTATTTTGTCACCATCATTAATGGAATCTCTACTTTTAAAAGTATTTAGGTGCACAGACCAC		
77012 T	C	A	ATACCACTCTATAATTATTTTGTCACCGTCATTAATGGAATCTCTACTTTTAAAAGTATTTAGGTGCACAGACCAC		
77012 IS	[TC]		CTCTTGTTAGAAGTGGTCTGTGCACCTAAATACTTTTAAAAGTAGAGATTCCATTAATGA[TC]GGTGACAAAATAATTAT AGAGTGGTATGCCATTAACAAATTAAATGAAGGTATTGAGAAA		
77040 I		S	AGGAACACTGGTTTGCAGGAATCTGGCCCA		
77040 P	G	S	ATGACGTGGCAGACCGGGGCCCATGATY		
77040 P	A	S	CGCGCCGAGGTGGGGCCCATGATTTY		
77040 T	G	S	TGGCAAATCATGGGCCCCGGGGCCAGATTCCTGCAAACCAGTGTTCCTGC		
77040 T	A	S	TGGCAAATCATGGGCCCCAGGGCCAGATTCCTGCAAACCAGTGTTCCTGC		
77040 IS	[GA]		CGTCTGGGAGCCATATGCTTTGAAATGCTCTGTTTGCCAAAATGGCAAATCATGGGCCCC[GA]GGGCCAGATTCCTG CAAACCAGTGTTCCTGCAGGGACCTTGGGCTGTCTCATCAATCCAA		
77107 I		S	ACTGACAATATATTAGCACGGAAATGCAATTCAAATATATAATTTCTACTTAATTTTCATC		
77107 P	A	S	CGCGCCGAGGTTAACAAGATATTAACTTAGGAAAGCY		
77107 P	C	S	ATGACGTGGCAGACGTAACAAGATATTAACTTAGGAAAGCY		
77107 T	A	S	TAGGGCTTTCCTAAGTTAATATCTTGTTAAATGAAAATTAAGTAGAAATTATATATTTGAATTGCATTTCCGTGCTAATAT ATTGTCAGT		
77107 T	C	S	TAGGGCTTTCCTAAGTTAATATCTTGTTACATGAAAATTAAGTAGAAATTATATATTTGAATTGCATTTCCGTGCTAATAT ATTGTCAGT		
77107 IS	[AC]		GTTATACTTAAAGTAGAGACATGTTAGTGAGTAGGGCTTTCCTAAGTTAATATCTTGTTA[AC]ATGAAAATTAAGTAGAA ATTATATATTTGAATTGCATTTCCGTGCTAATATATTGTCAGT		
77139 I		A	TTATATAATATCATTTTAAGATAGATTCACAAACACATAAAGAAAAAAGAATAAGCATTAA		

FIGURE 129D

77139 P	T	A	CGCGCCGAGGTGAAAGGATCAAATGTATACAACY	
77139 P	C	A	ATGACGTGGCAGACCGAAAGGATCAAATGTATACAACY	
77139 T	T	A	GAGTGTTGTATACATTTGATCCTTTCATAATGCTTATTCTTTTTTCTTTATGTGTTTGTGAATCTATCTTAAAATGATATT ATATAA	
77139 T	C	A	GAGTGTTGTATACATTTGATCCTTTCGTAATGCTTATTCTTTTTTCTTTATGTGTTTGTGAATCTATCTTAAAATGATATT ATATAA	
77139 IS	[TC]		TTATATAATATCATTTTAAGATAGATTCACAAACACATAAAGAAAAAAGAATAAGCATTA[TC]GAAAGGATCAAATGTATA CAACACTCAAAGAGTATAAATTCTAATTGTTAGAAAAGTTCA	
77209 I		S	GCACAGCCACCTCCAAGAGCACCCAT	
77209 P	C	S	ATGACGTGGCAGACGAGCCTCTTCAGCCAY	
77209 P	T	S	CGCGCCGAGGAAGCCTCTTCAGCCAY	
77209 T	C	S	GCTGTGGCTGAAGAGGCTCTGGGTGCTCTTGGAGGTGGCTGTGCAT	
77209 T	T	S	GCTGTGGCTGAAGAGGCTTTGGGTGCTCTTGGAGGTGGCTGTGCAT	
77209 IS	[CT]		AGCTTACTCTGGCTTTGCCGAGATGGGGCTGCCCCAGCCAGGGCTGTGGCTGAAGAGGCT[CT]TGGGTGCTCTTGG AGGTGGCTGTGCATGTGGTCGTGGGTAAAGTGCTTCTGATATTGTTT	
77215 I		S	CTCTACGAGTTTTTCTTGCCGTTTACTTTGCGCTTCTTCTAT	
77215 P	C	S	ATGACGTGGCAGACGCTATAAGAAAGTTACAAGAAACATY	
77215 P	T	S	CGCGCCGAGGACTATAAGAAAGTTACAAGAAACATTAY	
77215 T	C	S	AAAGTAATGTTTCTTGTAACTTTCTTATAGCTAGAAGAAGCGCAAAGTAAACGGCAAGAAAAACTCGTAGAGAA	
77215 T	T	S	AAAGTAATGTTTCTTGTAACTTTCTTATAGTTAGAAGAAGCGCAAAGTAAACGGCAAGAAAAACTCGTAGAGAA	
77215 IS	[CT]		TGAAAACGTGCACTTTTAAATGTTTAGATGAAAGTAATGTTTCTTGTAACTTTCTTATAG[CT]TAGAAGAAGCGCAAAGT AAACGGCAAGAAAAACTCGTAGAGAAACACAAGGAAATACGTC	
77228 I		A	GGAAGCACATGAACGAGGAAAAGGGGACATCCA	
77228 P	C	A	ATGACGTGGCAGACCTAAATCTTACACCTATGAAGGATY	
77228 P	T	A	CGCGCCGAGGTTAAATCTTACACCTATGAAGGATY	
77228 T	C	A	GATAATCCTTCATAGGTGTAAGATTTAGGGATGTCCCCTTTTCCTCGTTCATGTGCTTCCAC	
77228 T	T	A	GATAATCCTTCATAGGTGTAAGATTTAAGGATGTCCCCTTTTCCTCGTTCATGTGCTTCCAC	
77228 IS	[CT]		ATGACTACGATGGAGAAGAATATGATGTGGAAGCACATGAACGAGGAAAAGGGGACATCC[CT]TAAATCTTACACCTA TGAAGGATTATCCCATTAACAGCAGAAGGCCAAGCCACATTGGAG	
77232 I		A	GAGGCAGACCTGAGAACAACAAACTTTCTTTAGTGGAGTT	
77232 P	G	A	ATGACGTGGCAGACGCATAGTATCTCTCTTAATTACCCY	
77232 P	A	A	CGCGCCGAGGACATAGTATCTCTCTTAATTACCCY	
77232 T	G	A	AGATGGGTAATTAAGAGAGATACTATGCACTCCACTAAAGAAAGTTTGTTGTTCTCAGGTCTGCCTCAT	
77232 T	A	A	AGATGGGTAATTAAGAGAGATACTATGTACTCCACTAAAGAAAGTTTGTTGTTCTCAGGTCTGCCTCAT	
77232 IS	[GA]		ATGGGCAAGGCTTTGATAAATGAGGCAGACCTGAGAACAACAAACTTTCTTTAGTGGAGT[GA]CATAGTATCTCTCTTA ATTACCCATCTCCCCTCTCACTAGTAGCTAGCGAACCCTGTCCC	
77385 I		A	CTGGGAGGGCTGACCCTCTTTTCAGTCAGT	
77385 P	G	A	ATGACGTGGCAGACGTCTTTTCCCTTACCTGTTTY	
77385 P	A	A	CGCGCCGAGGATCTTTTCCCTTACCTGTTTTY	
77385 T	G	A	GCAGAAAACAGGTAAGGGAAAAGACCTGACTGAAAAGAGGGTCAGCCCTCCCAGCA	
77385 T	A	A	GCAGAAAACAGGTAAGGGAAAAGATCTGACTGAAAAGAGGGTCAGCCCTCCCAGCA	
77385 IS	[GA]		ATGGTGCTCTATAGTCTTCAGTGCCACCATGCTGGGAGGGCTGACCCTCTTTTCAGTCAG[GA]TCTTTTCCCTTACCT GTTTTCTGCTTGGGTTCCAAATAGGATTTTTGTCTAGAGGGTGAA	
77530 I		A	GGTTGATGGACATTTTGTAGAACAGGTACTCCCTAGGAGCA	
77530 P	C	A	ATGACGTGGCAGACCAGATAATTTGAAAAGTGAATGAATGY	
77530 P	T	A	CGCGCCGAGGTAGATAATTTGAAAAGTGAATGAATGY	
77530 T	C	A	ACTGCATTCATTCACTTTTCAAATTATCTGGCTCCTAGGGAGTACCTGTTCTACAAAATGTCCATCAACCCT	
77530 T	T	A	ACTGCATTCATTCACTTTTCAAATTATCTAGCTCCTAGGGAGTACCTGTTCTACAAAATGTCCATCAACCCT	
77530 IS	[CT]		AAGCTTGATAGTGTGGGTAGGGTTGATGGACATTTTGTAGAACAGGTACTCCCTAGGAGC[CT]AGATAATTTGAAAAG TGAATGAATGCAGTCTGGATTTCATACCACTTAATTTAACTCTTC	
77539 I		S	CAGCCTCGGGAACCTAAACAGAAGCAACTGTGT	
77539 P	C	S	ATGACGTGGCAGACGATCTTGTTTGGGGCTTTY	
77539 P	T	S	CGCGCCGAGGAATCTTGTTTGGGGCTTTY	
77539 T	C	S	AATCAAAGCCCCAAACAAGATCCACAGTTGCTTCTGTTTAGGTTCCCGAGGCTGTT	
77539 T	T	S	AATCAAAGCCCCAAACAAGATTCACAGTTGCTTCTGTTTAGGTTCCCGAGGCTGTT	
77539 IS	[CT]		GTCTTAGAGACCCAAATATAGCACTTCTAACAATCCTATAATCAAAGCCCCAAACAAGAT[CT]CACAGTTGCTTCTGTTT AGGTTCCCGAGGCTGTTGGTTTTCTCATTCCCCAGGAAGCCTT	
77574 I		S	GCTCCAGGCCACAGACTTGATGCCCAT	
77574 P	C	S	ATGACGTGGCAGACGGGACCACTCGTAAGCY	
77574 P	T	S	CGCGCCGAGGAGGACCACTCGTAAGCY	
77574 T	C	S	CAGCGCTTACGAGTGGTCCCTGGGCATCAAGTCTGTGGCCTGGAGCCC	
77574 T	T	S	CAGCGCTTACGAGTGGTCCTTGGGCATCAAGTCTGTGGCCTGGAGCCC	
77574 IS	[CT]		ATTCTGCTGTACTCATTGGATGGCCGGTTGTTGTCCACGTACAGCGCTTACGAGTGGTCC[CT]TGGGCATCAAGTCTG TGGCCTGGAGCCCCAGCAGTCAGTTCCTGGCAGTTGGGAGCTATG	WDR8
77681 I		A	GCAGGGGAGGGGTACGGGGAGTAA	
77681 P	C	A	ATGACGTGGCAGACCTGTACAGAAGGAGGCAY	
77681 P	T	A	CGCGCCGAGGTTGTACAGAAGGAGGCAY	
77681 T	C	A	GATCTGCCTCCTTCTGTACAGTACTCCCCGTACCCCTCCCCTGCCA	
77681 T	T	A	GATCTGCCTCCTTCTGTACAATACTCCCCGTACCCCTCCCCTGCCA	
77681 IS	[CT]		GGTGGTGGCAAGGACCACCTGATAAGGCTGTGTCCTGGCAGGGGAGGGGTACGGGGAGTA[CT]TGTACAGAAGGAG GCAGATCATATGGTGCTAACCTATCTCTCTTTTTTGTTGCAGAAGGA	
77726 I		A	ACCCCCACTATTCCTGCCTAGTGGAA	
77726 P	C	A	ATGACGTGGCAGACCGGTTTTCAAGACGGAAY	
77726 P	T	A	CGCGCCGAGGTGGTTTTCAAGACGGAAAY	
77726 T	C	A	TTACTTTCCGTCTTGAAAACCGTCCACTAGGCAGGAATAGTGGGGGTGT	
77726 T	T	A	TTACTTTCCGTCTTGAAAACCATCCACTAGGCAGGAATAGTGGGGGTGT	
77726 IS	[CT]		TCACTGGGGCCATTTTGCTAGCTCCATTTATCAACACCCCCACTATTCCTGCCTAGTGGA[CT]GGTTTTCAAGACGGA AAGTAAGATGTCGTAAGATTAAAAGATCTTTCAGATCATTTCTTA	
77831 I		A	GCCCAAGTCTGAAATGAACCAAATTGCATGAGCTCTATTT	
77831 P	A	A	CGCGCCGAGGATGTGCCCCTCTTGTAAY	
77831 P	G	A	ATGACGTGGCAGACGTGTGCCCCTCTTGTY	
77831 T	A	A	TATATTACAAGAGGGGCACATAATAGAGCTCATGCAATTTGGTTCATTTCAGACTTGGGCCA	
77831 T	G	A	TATATTACAAGAGGGGCACACAATAGAGCTCATGCAATTTGGTTCATTTCAGACTTGGGCCA	
77831 IS	[AG]		AGCAGCTTTCACCTAAAGCTGGCCCAAGTCTGAAATGAACCAAATTGCATGAGCTCTATT[AG]TGTGCCCCTCTTGTAA TATAAAAATCTAATAAAAGTAAATAGCAAAGTCTAATAGATAAT	
77834 I		S	TGCCTAATTCAGTGTACACTCATTTGCAAGTAAAGCATACATTTAACAGTTCTAATAAT	
77834 P	T	S	CGCGCCGAGGAAATCAGTTGAATGTCATTACAGY	
77834 P	C	S	ATGACGTGGCAGACGAATCAGTTGAATGTCATTACAGY	
77834 T	T	S	TATACTGTAATGACATTCAACTGATTTTTATTAGAACTGTTAAATGTATGCTTTACTTGCAAATGAGTGTACACTGAATT AGGCAAG	
77834 T	C	S	TATACTGTAATGACATTCAACTGATTCTTATTAGAACTGTTAAATGTATGCTTTACTTGCAAATGAGTGTACACTGAATT AGGCAAG	

FIGURE 129D

				TTTGCCTTTTATTTTGTTGAGTTTTCCTGCCCTGTATACTGTAATGACATTCAACTGATT[TC]TTATTAGAACTGTTAAAT
77834	IS	[TC]		GTATGCTTTACTTGCAAATGAGTGTACACTGAATTAGGCAAG
77836	I		S	CCTCTGAAATGGGCTTGGAAGTTTCTAATCCCAAAGACTTCT
77836	P	G	S	CGCGCCGAGGCAACCCAGGATCTGGAY
77836	P	C	S	ATGACGTGGCAGACGAACCCAGGATCTGGATY
77836	T	G	S	TGCTATCCAGATCCTGGGTTGGAAGTCTTTGGGATTAGAAACTTCCAAGCCCATTTCAGAGGCT
77836	T	C	S	TGCTATCCAGATCCTGGGTTCGAAGTCTTTGGGATTAGAAACTTCCAAGCCCATTTCAGAGGCT
				CCCACGTTTTCAACTGAGTAAATATCTAAATATTTTTGCTTGCTATCCAGATCCTGGGTT[GC]GAAGTCTTTGGGATTA
77836	IS	[GC]		GAAACTTCCAAGCCCATTTCAGAGGCTTCCTAGTCCTTGGGAGG
77945	I		S	GCTGGGGCCTGAGGAGCACCGT
77945	P	C	S	ATGACGTGGCAGACGGTCCGGCCAGAGY
77945	P	T	S	CGCGCCGAGGAGTCCGGCCAGAGY
77945	T	C	S	GGCCCTCTGGCCGGACCCGGTGCTCCTCAGGCCCCAGCGC
77945	T	T	S	GGCCCTCTGGCCGGACTCGGTGCTCCTCAGGCCCCAGCGC
				GGACCGCGGCGGCCCCGCTAGACTCTGGTCGGGTCTGGAGTATTGGGCCCTCTGGCCGGAC[CT]CGGTGCTCCTCAG
77945	IS	[CT]		GCCCCAGCGCCCGGCACTGAGCCTCGCATCCACATTCGCAGAGTAAA
77999	I		S	TCACACTGACTTGGCGAGCAAGAGCACCT
77999	P	C	S	ATGACGTGGCAGACGGAGAGACGGCTCTGY
77999	P	T	S	CGCGCCGAGGAGAGAGACGGCTCTGY
77999	T	C	S	GCAACAGAGCCGTCTCTCCGGTGCTCTTGCTCGCCAAGTCAGTGTGAGG
77999	T	T	S	GCAACAGAGCCGTCTCTCTGGTGCTCTTGCTCGCCAAGTCAGTGTGAGG
				GAGGACCCACAGGGTAGACCGCCTCCTTGGCCGGTGACCCCTGCAACAGAGCCGTCTCTC[CT]GGTGCTCTTGCTC
77999	IS	[CT]		GCCAAGTCAGTGTGAGGCCCGGACGGAGGAAGCCCTGCTTGCTTCTC
78088	I		S	CCATTATCTTCATGTCACCCCATTTGGTTGAGCAGATGATAA
78088	P	A	S	CGCGCCGAGGTTGTTGGGATGAATGACAAY
78088	P	G	S	ATGACGTGGCAGACCTGTTGGGATGAATGACAAY
78088	T	A	S	TTTTTTGTCATTCATCCCAACAATATCATCTGCTCAACCAAATGGGGTGACATGAAGATAATGGCC
78088	T	G	S	TTTTTTGTCATTCATCCCAACAGTATCATCTGCTCAACCAAATGGGGTGACATGAAGATAATGGCC
				AAACACACATTTTAGAACATGGGGGAGGGGGAGATACTTTTTTTGTCATTCATCCCAACA[AG]TATCATCTGCTCAACC
78088	IS	[AG]		AAATGGGGTGACATGAAGATAATGGCCCACGTAAACACGTTTGG
78090	I		S	CTCTTCTGAGTCCTACCAGTCTACCTTCCTGATATGCTCT
78090	P	C	S	ATGACGTGGCAGACGAGTCTCTTTCAGGGTCTY
78090	P	T	S	CGCGCCGAGGAAGTCTCTTTCAGGGTCTY
78090	T	C	S	CTGGAGACCCTGAAAGAGACTCGAGCATATCAGGAAGGTAGACTGGTAGGACTCAGAAGAGCT
78090	T	T	S	CTGGAGACCCTGAAAGAGACTTGAGCATATCAGGAAGGTAGACTGGTAGGACTCAGAAGAGCT
				TACCTTGTTCCCTTCATCTAGCTCAGATGGTAGGTCCCACTGGAGACCCTGAAAGAGACT[CT]GAGCATATCAGGAAG
78090	IS	[CT]		GTAGACTGGTAGGACTCAGAAGAGCTCATCCATTCTGATCATTTA
78122	I		A	GCACTTTAAGCTGTGCTATGTCGTGCCTCATTTGCA
78122	P	C	A	ATGACGTGGCAGACCGAATTACACCAAGCCTCY
78122	P	T	A	CGCGCCGAGGTGAATTACACCAAGCCTCY
78122	T	C	A	AACAGAGGCTTGGTGTAATTCGGCAAATGAGGCACGACATAGCACAGCTTAAAGTGCAA
78122	T	T	A	AACAGAGGCTTGGTGTAATTCAGCAAATGAGGCACGACATAGCACAGCTTAAAGTGCAA
				TGAGCTGCTGCTTGCTGGTTAGCTTGCACTTTAAGCTGTGCTATGTCGTGCCTCATTTGC[CT]GAATTACACCAAGCC
78122	IS	[CT]		TCTGTTAAAAAAAAACAAGATCTAAGTCAGAAATTTGGGTAATTG
78184	I		A	AGGCAGGCAACATTTACTCACTTTTTACACACTTCTGTTTCATATAGGT
78184	P	A	A	CGCGCCGAGGAAAACATGACAGAAGGTATAGAAY
78184	P	C	A	ATGACGTGGCAGACCAAACATGACAGAAGGTATAGAY
78184	T	A	A	TTCCTTCTATACCTTCTGTCATGTTTTCCTATATGAAACAGAAGTGTGTAAAAAGTGAGTAAATGTTGCCTGCCTTA
78184	T	C	A	TTCCTTCTATACCTTCTGTCATGTTTGCCTATATGAAACAGAAGTGTGTAAAAAGTGAGTAAATGTTGCCTGCCTTA
				AAAAAAATGCTAAGGCAGGCAACATTTACTCACTTTTTACACACTTCTGTTTCATATAGG[AC]AAACATGACAGAAGGTA
78184	IS	[AC]		TAGAAGGAAGTGTTTTTATTATAAGAAATGCTTAGAATGAATG
78194	I		S	TGAGCGGCTGGTAACCCAGCTCTGGA
78194	P	G	S	ATGACGTGGCAGACCCTAGGGCACTGAGAGY
78194	P	A	S	CGCGCCGAGGTCTAGGGCACTGAGAGAY
78194	T	G	S	TCAATCTCTCAGTGCCCTAGGCCAGAGCTGGGTTACCAGCCGCTCAGC
78194	T	A	S	TCAATCTCTCAGTGCCCTAGACCAGAGCTGGGTTACCAGCCGCTCAGC
				GTGGCGTTTTTCAGGCTAGCAAAACACATCCTCTGTTTGTTCAATCTCTCAGTGCCCTAG[GA]CCAGAGCTGGGTTAC
78194	IS	[GA]		CAGCCGCTCAGCTCAAGATCGCCTGTTGGGATGTTAAACGGGCTC
78215	I		S	GTGGGTTCCTGGTGTTGGTTAAAATGCCTTTTATTCCAT
78215	P	T	S	CGCGCCGAGGATGCTTTGGAAATAGTGCAY
78215	P	C	S	ATGACGTGGCAGACGTGCTTTGGAAATAGTGCY
78215	T	T	S	TGTCTGCACTATTTCCAAAGCATTGGAATAAAAGGCATTTTAACCAACACCAGGAACCCACGG
78215	T	C	S	TGTCTGCACTATTTCCAAAGCACTGGAATAAAAGGCATTTTAACCAACACCAGGAACCCACGG
				TATTAGAGCTGTCAGCCTAGGAGCCTACCCCAGTTTTGTGTCTGCACTATTTCCAAAGCA[TC]TGGAATAAAAGGCATT
78215	IS	[TC]		TTAACCAACACCAGGAACCCACGGGAATCTTTTCAAAGGATCTG
78216	I		S	CCTTAGGCTGATCTGATGCAGATCCTTTGAAAAGATTCCCT
78216	P	C	S	ATGACGTGGCAGACGTGGGTTCCTGGTGTY
78216	P	T	S	CGCGCCGAGGATGGGTTCCTGGTGTTY
78216	T	C	S	AACCAACACCAGGAACCCACGGGAATCTTTTCAAAGGATCTGCATCAGATCAGCCTAAGGAA
78216	T	T	S	AACCAACACCAGGAACCCATGGGAATCTTTTCAAAGGATCTGCATCAGATCAGCCTAAGGAA
				TGTCTGCACTATTTCCAAAGCATTGGAATAAAAGGCATTTTAACCAACACCAGGAACCCA[CT]GGGAATCTTTTCAAAG
78216	IS	[CT]		GATCTGCATCAGATCAGCCTAAGGAACACTGCTGTCGGTGATGA
78243	I		S	GCTGAGATTCCTCCTTGGTTGAGGAAAATAGAGTAACGACAATTTTACTAT
78243	P	C	S	ATGACGTGGCAGACGACTCTTTTGCCATAGTGTY
78243	P	G	S	CGCGCCGAGGCACTCTTTTGCCATAGTGTY
78243	T	C	S	TGGGACACTATGGCAAAAGAGTCTAGTAAAATTGTCGTTACTCTATTTTCCTCAACCAAGGAGGAATCTCAGCAA
78243	T	G	S	TGGGACACTATGGCAAAAGAGTGTAGTAAAATTGTCGTTACTCTATTTTCCTCAACCAAGGAGGAATCTCAGCAA
				TAGGTGTTGGCAACAGTGGTACCATTGAAATAAACCCATGGGACACTATGGCAAAAGAGT[CG]TAGTAAAATTGTCGT
78243	IS	[CG]		TACTCTATTTTCCTCAACCAAGGAGGAATCTCAGCAATTTGCAGC
78288	I		S	CCCCTTGAGGGCAAATAGCACATCTGTGGTTGATAA
78288	P	G	S	ATGACGTGGCAGACCAGCTATGACTAGATGTTTTTCY
78288	P	A	S	CGCGCCGAGGTAGCTATGACTAGATGTTTTTCAY
78288	T	G	S	AATGTGAAAAACATCTAGTCATAGCTGTATCAACCACAGATGTGCTATTTGCCCTCAAGGGGGC
78288	T	A	S	AATGTGAAAAACATCTAGTCATAGCTATATCAACCACAGATGTGCTATTTGCCCTCAAGGGGGC
				TGGGCTTCCAAAAACTTATGAAACATTGTGAAAAAATGTGAAAAACATCTAGTCATAGCT[GA]TATCAACCACAGATGT
78288	IS	[GA]		GCTATTTGCCCTCAAGGGGGCACGATGTATTTCACACCAGAGAT
78357	I		S	ACAGTGATGTAGACCACAGTAAAACAAGTCAGGTGGTCAC
78357	P	A	S	CGCGCCGAGGTTTCAATGAATTCTAAATGGTTGCY
78357	P	T	S	ATGACGTGGCAGACATTCAATGAATTCTAAATGGTTGCY
78357	T	A	S	TGATGCAACCATTTAGAATTCATTGAAATGACCACCTGACTTGTTTTACTGTGGTCTACATCACTGTTA
78357	T	T	S	TGATGCAACCATTTAGAATTCATTGAATTGACCACCTGACTTGTTTTACTGTGGTCTACATCACTGTTA
				GCCTCGAAGCAAAGCATATCAGATTGTCCAAAATGATGCAACCATTTAGAATTCATTGAA[AT]TGACCACCTGACTTGT
78357	IS	[AT]		TTTACTGTGGTCTACATCACTGTTAGTGTTGGATGTGGTTTTAA

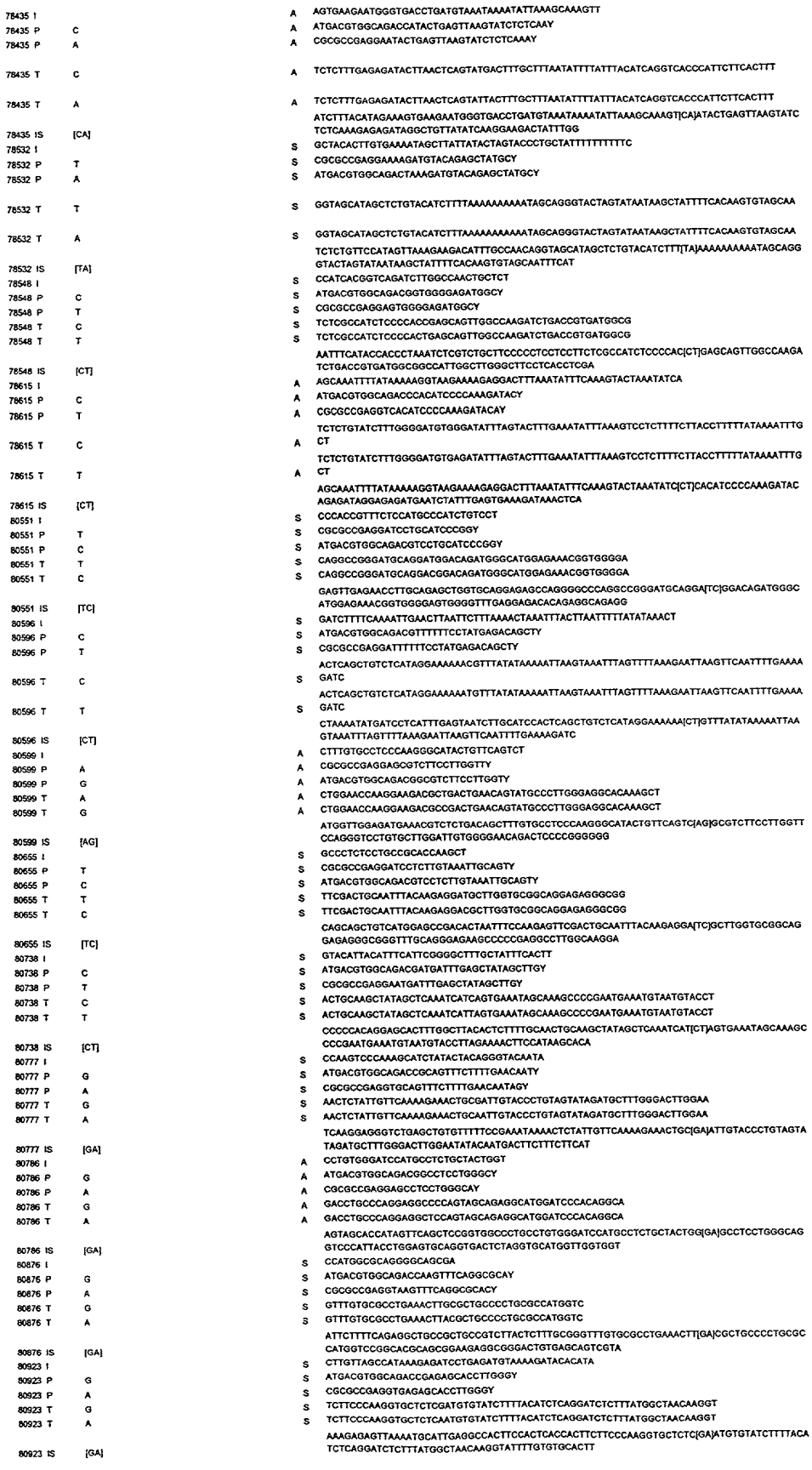

78435 I A AGTGAAGAATGGGTGACCTGATGTAAATAAAATATTAAAGCAAAGTT
78435 P C A ATGACGTGGCAGACCATACTGAGTTAAGTATCTCTCAAY
78435 P A A CGCGCCGAGGAATACTGAGTTAAGTATCTCTCAAAY
78435 T C A TCTCTTTGAGAGATACTTAACTCAGTATGACTTTGCTTTAATATTTTATTTACATCAGGTCACCCATTCTTCACTTT
78435 T A A TCTCTTTGAGAGATACTTAACTCAGTATTACTTTGCTTTAATATTTTATTTACATCAGGTCACCCATTCTTCACTTT
78435 IS [CA] ATCTTTACATAGAAAGTGAAGAATGGGTGACCTGATGTAAATAAAATATTAAAGCAAAGT[CA]ATACTGAGTTAAGTATC TCTCAAAGAGAGATAGGCTGTTATATCAAGGAAGACTATTTGG
78532 I S GCTACACTTGTGAAAATAGCTTATTATACTAGTACCCTGCTATTTTTTTTTTC
78532 P T S CGCGCCGAGGAAAAGATGTACAGAGCTATGCY
78532 P A S ATGACGTGGCAGACTAAAGATGTACAGAGCTATGCY
78532 T T S GGTAGCATAGCTCTGTACATCTTTTAAAAAAAAAATAGCAGGGTACTAGTATAATAAGCTATTTTCACAAGTGTAGCAA
78532 T A S GGTAGCATAGCTCTGTACATCTTTAAAAAAAAAAATAGCAGGGTACTAGTATAATAAGCTATTTTCACAAGTGTAGCAA
78532 IS [TA] TCTCTGTTCCATAGTTAAAGAAGACATTTGCCAACAGGTAGCATAGCTCTGTACATCTTT[TA]AAAAAAAAAATAGCAGG GTACTAGTATAATAAGCTATTTTCACAAGTGTAGCAATTTCAT
78548 I S CCATCACGGTCAGATCTTGGCCAACTGCTCT
78548 P C S ATGACGTGGCAGACGGTGGGGAGATGGCY
78548 P T S CGCGCCGAGGAGTGGGGAGATGGCY
78548 T C S TCTCGCCATCTCCCCACCGAGCAGTTGGCCAAGATCTGACCGTGATGGCG
78548 T T S TCTCGCCATCTCCCCACTGAGCAGTTGGCCAAGATCTGACCGTGATGGCG
78548 IS [CT] AATTTCATACCACCCTAAATCTCGTCTGCTTCCCCCTCCTCCTTCTCGCCATCTCCCCAC[CT]GAGCAGTTGGCCAAGA TCTGACCGTGATGGCGGCCATTGGCTTGGGCTTCCTCACCTCGA
78615 I A AGCAAATTTTATAAAAAGGTAAGAAAAGAGGACTTTAAATATTTCAAAGTACTAAATATCA
78615 P C A ATGACGTGGCAGACCCACATCCCCAAAGATACY
78615 P T A CGCGCCGAGGTCACATCCCCAAAGATACAY
78615 T C A TCTCTGTATCTTTGGGGATGTGGGATATTTAGTACTTTGAAATATTTAAAGTCCTCTTTTCTTACCTTTTTATAAAATTTG CT
78615 T T A TCTCTGTATCTTTGGGGATGTGAGATATTTAGTACTTTGAAATATTTAAAGTCCTCTTTTCTTACCTTTTTATAAAATTTG CT
78615 IS [CT] AGCAAATTTTATAAAAAGGTAAGAAAAGAGGACTTTAAATATTTCAAAGTACTAAATATC[CT]CACATCCCCAAAGATAC AGAGATAGGAGAGATGAATCTATTTGAGTGAAAGATAAACTCA
80551 I S CCCACCGTTTCTCCATGCCCATCTGTCCT
80551 P T S CGCGCCGAGGATCCTGCATCCCGGY
80551 P C S ATGACGTGGCAGACGTCCTGCATCCCGGY
80551 T T S CAGGCCGGGATGCAGGATGGACAGATGGGCATGGAGAAACGGTGGGGA
80551 T C S CAGGCCGGGATGCAGGACGGACAGATGGGCATGGAGAAACGGTGGGGA
80551 IS [TC] GAGTTGAGAACCTTGCAGAGCTGGTGCAGGAGAGCCAGGGGCCCAGGCCGGGATGCAGGA[TC]GGACAGATGGGC ATGGAGAAACGGTGGGGAGTGGGGTTTGAGGAGACACAGAGGCAGAGG
80596 I S GATCTTTTCAAAATTGAACTTAATTCTTTAAAACTAAATTTACTTAATTTTTATATAAACT
80596 P C S ATGACGTGGCAGACGTTTTTTCCTATGAGACAGCTY
80596 P T S CGCGCCGAGGATTTTTTCCTATGAGACAGCTY
80596 T C S ACTCAGCTGTCTCATAGGAAAAAACGTTTATATAAAAATTAAGTAAATTTAGTTTTAAAGAATTAAGTTCAATTTTGAAAA GATC
80596 T T S ACTCAGCTGTCTCATAGGAAAAAATGTTTATATAAAAATTAAGTAAATTTAGTTTTAAAGAATTAAGTTCAATTTTGAAAA GATC
80596 IS [CT] CTAAAATATGATCCTCATTTGAGTAATCTTGCATCCACTCAGCTGTCTCATAGGAAAAAA[CT]GTTTATATAAAAATTAA GTAAATTTAGTTTTAAAGAATTAAGTTCAATTTTGAAAAGATC
80599 I A CTTTGTGCCTCCCAAGGGCATACTGTTCAGTCT
80599 P A A CGCGCCGAGGAGGGTCTTCCTTGGTTY
80599 P G A ATGACGTGGCAGACGGCGTCTTCCTTGGTY
80599 T A A CTGGAACCAAGGAAGACGCTGACTGAACAGTATGCCCTTGGGAGGCACAAAGCT
80599 T G A CTGGAACCAAGGAAGACGCGACTGAACAGTATGCCCTTGGGAGGCACAAAGCT
80599 IS [AG] ATGGTTGGAGATGAAACGTCTCTGACAGCTTTGTGCCTCCCAAGGGCATACTGTTCAGTC[AG]GCGTCTTCCTTGGTT CCAGGGTCCTGTGCTTGGATTGTGGGGAACAGACTCCCCGGGGGG
80655 I S GCCCTCTCCTGCCGCACCAAGCT
80655 P T S CGCGCCGAGGATCCTCTTGTAAATTGCAGTY
80655 P C S ATGACGTGGCAGACGTCCTCTTGTAAATTGCAGTY
80655 T T S TTCGACTGCAATTTACAAGAGGATGCTTGGTGCGGCAGGAGAGGGCGG
80655 T C S TTCGACTGCAATTTACAAGAGGACGCTTGGTGCGGCAGGAGAGGGCGG
80655 IS [TC] CAGCAGCTGTCATGGAGCCGACACTAATTTCCAAGAGTTCGACTGCAATTTACAAGAGGA[TC]GCTTGGTGCGGCAG GAGAGGCCGGGTTTGCAGGGAGAAGCCCCCGAGGCCTTGGCAAGGA
80738 I S GTACATTACATTTCATTCGGGGCTTTGCTATTTCACTT
80738 P C S ATGACGTGGCAGACGATGATTTGAGCTATAGCTTGY
80738 P T S CGCGCCGAGGAATGATTTGAGCTATAGCTTGY
80738 T C S ACTGCAAGCTATAGCTCAAATCATCAGTGAAATAGCAAAGCCCCGAATGAAATGTAATGTACCT
80738 T T S ACTGCAAGCTATAGCTCAAATCATTAGTGAAATAGCAAAGCCCCGAATGAAATGTAATGTACCT
80738 IS [CT] CCCCCACAGGAGCACTTTGGCTTACACTCTTTTGCAACTGCAAGCTATAGCTCAAATCAT[CT]AGTGAAATAGCAAAGC CCCGAATGAAATGTAATGTACCTTAGAAAACTTCCATAAGCACA
80777 I S CCAAGTCCCAAAGCATCTATACTACAGGGTACAATA
80777 P G S ATGACGTGGCAGACCGCAGTTTCTTTTGAACAATY
80777 P A S CGCGCCGAGGTGCAGTTTCTTTTGAACAATAGY
80777 T G S AACTCTATTGTTCAAAAGAAACTGCGATTGTACCCTGTAGTATAGATGCTTTGGGACTTGGAA
80777 T A S AACTCTATTGTTCAAAAGAAACTGCAATTGTACCCTGTAGTATAGATGCTTTGGGACTTGGAA
80777 IS [GA] TCAAGGAGGGTCTGAGCTGTGTTTTTCCGAAATAAAACTCTATTGTTCAAAAGAAACTGC[GA]ATTGTACCCTGTAGTA TAGATGCTTTGGGACTTGGAATATACAATGACTTCTTTCTTCAT
80786 I A CCTGTGGGATCCATGCCTCTGCTACTGGT
80786 P G A ATGACGTGGCAGACGGCCTCCTGGGCY
80786 P A A CGCGCCGAGGAGCCTCCTGGGCAY
80786 T G A GACCTGCCCAGGAGGCCCCAGTAGCAGAGGCATGGATCCCACAGGCA
80786 T A A GACCTGCCCAGGAGGCTCCAGTAGCAGAGGCATGGATCCCACAGGCA
80786 IS [GA] AGTAGCACCATAGTTCAGCTCCGGTGGCCCTGCCTGTGGGATCCATGCCTCTGCTACTGG[GA]GCCTCCTGGGCAG GTCCCATTACCTGGAGTGCAGGTGACTCTAGGTGCATGGTTGGTGGT
80876 I S CCATGGCGCAGGGGCAGCGA
80876 P G S ATGACGTGGCAGACCAAGTTTCAGGCGCAY
80876 P A S CGCGCCGAGGTAAGTTTCAGGCGCACY
80876 T G S GTTTGTGCGCCTGAAACTTGCGCTGCCCCTGCGCCATGGTC
80876 T A S GTTTGTGCGCCTGAAACTTACGCTGCCCCTGCGCCATGGTC
80876 IS [GA] ATTCTTTTCAGAGGCTGCCGCTGCCGTCTTACTCTTTGCGGGTTTGTGCGCCTGAAACTT[GA]CGCTGCCCCTGCGC CATGGTCCGGCACGCAGCGGAAGAGGCGGGACTGTGAGCAGTCGTA
80923 I S CTTGTTAGCCATAAAGAGATCCTGAGATGTAAAAGATACACATA
80923 P G S ATGACGTGGCAGACCGAGAGCACCTTGGGY
80923 P A S CGCGCCGAGGTGAGAGCACCTTGGGY
80923 T G S TCTTCCCAAGGTGCTCTCGATGTGTATCTTTTACATCTCAGGATCTCTTTATGGCTAACAAGGT
80923 T A S TCTTCCCAAGGTGCTCTCAATGTGTATCTTTTACATCTCAGGATCTCTTTATGGCTAACAAGGT
80923 IS [GA] AAAGAGAGTTAAAATGCATTGAGGCCACTTCCACTCACCACTTCTTCCCAAGGTGCTCTC[GA]ATGTGTATCTTTTACA TCTCAGGATCTCTTTATGGCTAACAAGGTATTTTGTGTGCACTT

FIGURE 129D

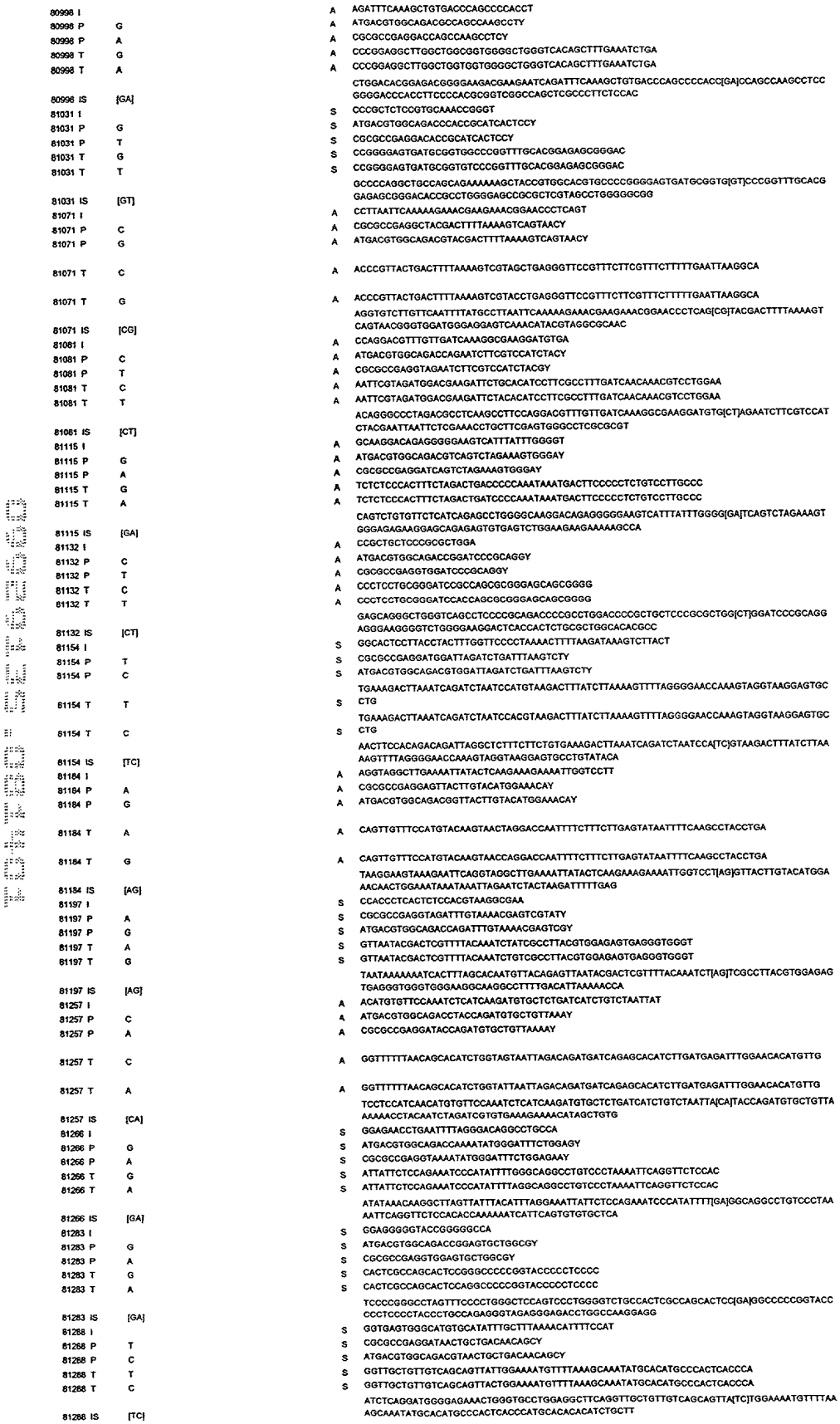

80998 I A AGATTTCAAAGCTGTGACCCAGCCCCACCT
80998 P G A ATGACGTGGCAGACGCCAGCCAAGCCTY
80998 P A A CGCGCCGAGGACCAGCCAAGCCTCY
80998 T G A CCCGGAGGCTTGGCTGGCGGTGGGGCTGGGTCACAGCTTTGAAATCTGA
80998 T A A CCCGGAGGCTTGGCTGGTGGTGGGGCTGGGTCACAGCTTTGAAATCTGA
CTGGACACGGAGACGGGGAAGACGAAGAATCAGATTTCAAAGCTGTGACCCAGCCCCACC[GA]CCAGCCAAGCCTCC
80998 IS [GA] GGGGACCCACCTTCCCCACGCGGTCGGCCAGCTCGCCCTTCTCCAC
81031 I S CCCGCTCTCCGTGCAAACCGGGT
81031 P G S ATGACGTGGCAGACCCACCGCATCACTCCY
81031 P T S CGCGCCGAGGACACCGCATCACTCCY
81031 T G S CCGGGGAGTGATGCGGTGGCCCGGTTTGCACGGAGAGCGGGAC
81031 T T S CCGGGGAGTGATGCGGTGTCCCGGTTTGCACGGAGAGCGGGAC
GCCCCAGGCTGCCAGCAGAAAAAAGCTACCGTGGCACGTGCCCCGGGGAGTGATGCGGTG[GT]CCCGGTTTGCACG
81031 IS [GT] GAGAGCGGGACACCGCCTGGGGAGCCGCGCTCGTAGCCTGGGGGCGG
81071 I A CCTTAATTCAAAAAGAAACGAAGAAACGGAACCCTCAGT
81071 P C A CGCGCCGAGGCTACGACTTTTAAAAGTCAGTAACY
81071 P G A ATGACGTGGCAGACGTACGACTTTTAAAAGTCAGTAACY
81071 T C A ACCCGTTACTGACTTTTAAAAGTCGTAGCTGAGGGTTCCGTTTCTTCGTTTCTTTTTGAATTAAGGCA
81071 T G A ACCCGTTACTGACTTTTAAAAGTCGTACCTGAGGGTTCCGTTTCTTCGTTTCTTTTTGAATTAAGGCA
AGGTGTCTTGTTCAATTTTATGCCTTAATTCAAAAAGAAACGAAGAAACGGAACCCTCAG[CG]TACGACTTTTAAAAGT
81071 IS [CG] CAGTAACGGGTGGATGGGAGGAGTCAAACATACGTAGGCGCAAC
81081 I A CCAGGACGTTTGTTGATCAAAGGCGAAGGATGTGA
81081 P C A ATGACGTGGCAGACCAGAATCTTCGTCCATCTACY
81081 P T A CGCGCCGAGGTAGAATCTTCGTCCATCTACGY
81081 T C A AATTCGTAGATGGACGAAGATTCTGCACATCCTTCGCCTTTGATCAACAAACGTCCTGGAA
81081 T T A AATTCGTAGATGGACGAAGATTCTACACATCCTTCGCCTTTGATCAACAAACGTCCTGGAA
ACAGGGCCCTAGACGCCTCAAGCCTTCCAGGACGTTTGTTGATCAAAGGCGAAGGATGTG[CT]AGAATCTTCGTCCAT
81081 IS [CT] CTACGAATTAATTCTCGAAACCTGCTTCGAGTGGGCCTCGCGCGT
81115 I A GCAAGGACAGAGGGGGAAGTCATTTATTTGGGGT
81115 P G A ATGACGTGGCAGACGTCAGTCTAGAAAGTGGGAY
81115 P A A CGCGCCGAGGATCAGTCTAGAAAGTGGGAY
81115 T G A TCTCTCCCACTTTCTAGACTGACCCCCAAATAAATGACTTCCCCCTCTGTCCTTGCCC
81115 T A A TCTCTCCCACTTTCTAGACTGATCCCCAAATAAATGACTTCCCCCTCTGTCCTTGCCC
CAGTCTGTGTTCTCATCAGAGCCTGGGGCAAGGACAGAGGGGGAAGTCATTTATTTGGGG[GA]TCAGTCTAGAAAGT
81115 IS [GA] GGGAGAGAAGGAGCAGAGAGTGTGAGTCTGGAAGAAGAAAAAGCCA
81132 I A CCGCTGCTCCCGCGCTGGA
81132 P C A ATGACGTGGCAGACCGGATCCCGCAGGY
81132 P T A CGCGCCGAGGTGGATCCCGCAGGY
81132 T C A CCCTCCTGCGGGATCCGCCAGCGCGGGAGCAGCGGGG
81132 T T A CCCTCCTGCGGGATCCACCAGCGCGGGAGCAGCGGGG
GAGCAGGGCTGGGTCAGCCTCCCCGCAGACCCCGCCTGGACCCCGCTGCTCCCGCGCTGG[CT]GGATCCCGCAGG
81132 IS [CT] AGGGAAGGGGTCTGGGGAAGGACTCACCACTCTGCGCTGGCACACGCC
81154 I S GGCACTCCTTACCTACTTTGGTTCCCCTAAAACTTTTAAGATAAAGTCTTACT
81154 P T S CGCGCCGAGGATGGATTAGATCTGATTTAAGTCTY
81154 P C S ATGACGTGGCAGACGTGGATTAGATCTGATTTAAGTCTY
TGAAAGACTTAAATCAGATCTAATCCATGTAAGACTTTATCTTAAAAGTTTTAGGGGAACCAAAGTAGGTAAGGAGTGC
81154 T T S CTG
TGAAAGACTTAAATCAGATCTAATCCACGTAAGACTTTATCTTAAAAGTTTTAGGGGAACCAAAGTAGGTAAGGAGTGC
81154 T C S CTG
AACTTCCACAGACAGATTAGGCTCTTTCTTCTGTGAAAGACTTAAATCAGATCTAATCCA[TC]GTAAGACTTTATCTTAA
81154 IS [TC] AAGTTTTAGGGGAACCAAAGTAGGTAAGGAGTGCCTGTATACA
81184 I A AGGTAGGCTTGAAAATTATACTCAAGAAAGAAAATTGGTCCTT
81184 P A A CGCGCCGAGGAGTTACTTGTACATGGAAACAY
81184 P G A ATGACGTGGCAGACGGTTACTTGTACATGGAAACAY
81184 T A A CAGTTGTTTCCATGTACAAGTAACTAGGACCAATTTTCTTTCTTGAGTATAATTTTCAAGCCTACCTGA
81184 T G A CAGTTGTTTCCATGTACAAGTAACCAGGACCAATTTTCTTTCTTGAGTATAATTTTCAAGCCTACCTGA
TAAGGAAGTAAAGAATTCAGGTAGGCTTGAAAATTATACTCAAGAAAGAAAATTGGTCCT[AG]GTTACTTGTACATGGA
81184 IS [AG] AACAACTGGAAATAAATAAATTAGAATCTACTAAGATTTTTGAG
81197 I S CCACCCTCACTCTCCACGTAAGGCGAA
81197 P A S CGCGCCGAGGTAGATTTGTAAAACGAGTCGTATY
81197 P G S ATGACGTGGCAGACCAGATTTGTAAAACGAGTCGY
81197 T A S GTTAATACGACTCGTTTTACAAATCTATCGCCTTACGTGGAGAGTGAGGGTGGGT
81197 T G S GTTAATACGACTCGTTTTACAAATCTGTCGCCTTACGTGGAGAGTGAGGGTGGGT
TAATAAAAAAATCACTTTAGCACAATGTTACAGAGTTAATACGACTCGTTTTACAAATCT[AG]TCGCCTTACGTGGAGAG
81197 IS [AG] TGAGGGTGGGTGGGAAGGCAAGGCCTTTTGACATTAAAAACCA
81257 I A ACATGTGTTCCAAATCTCATCAAGATGTGCTCTGATCATCTGTCTAATTAT
81257 P C A ATGACGTGGCAGACCTACCAGATGTGCTGTTAAAY
81257 P A A CGCGCCGAGGATACCAGATGTGCTGTTAAAAY
81257 T C A GGTTTTTTAACAGCACATCTGGTAGTAATTAGACAGATGATCAGAGCACATCTTGATGAGATTTGGAACACATGTTG
81257 T A A GGTTTTTTAACAGCACATCTGGTATTAATTAGACAGATGATCAGAGCACATCTTGATGAGATTTGGAACACATGTTG
TCCTCCATCAACATGTGTTCCAAATCTCATCAAGATGTGCTCTGATCATCTGTCTAATTA[CA]TACCAGATGTGCTGTTA
81257 IS [CA] AAAAACCTACAATCTAGATCGTGTGAAAGAAAACATAGCTGTG
81266 I S GGAGAACCTGAATTTTAGGGACAGGCCTGCCA
81266 P G S ATGACGTGGCAGACCAAAATATGGGATTTCTGGAGY
81266 P A S CGCGCCGAGGTAAAATATGGGATTTCTGGAGAAY
81266 T G S ATTATTCTCCAGAAATCCCATATTTTGGGCAGGCCTGTCCCTAAAATTCAGGTTCTCCAC
81266 T A S ATTATTCTCCAGAAATCCCATATTTTAGGCAGGCCTGTCCCTAAAATTCAGGTTCTCCAC
ATATAAACAAGGCTTAGTTATTTACATTTAGGAAATTATTCTCCAGAAATCCCATATTTT[GA]GGCAGGCCTGTCCCTAA
81266 IS [GA] AATTCAGGTTCTCCACACCAAAAAATCATTCAGTGTGTGCTCA
81283 I S GGAGGGGGTACCGGGGGCCA
81283 P G S ATGACGTGGCAGACCGGAGTGCTGGCGY
81283 P A S CGCGCCGAGGTGGAGTGCTGGCGY
81283 T G S CACTCGCCAGCACTCCGGGCCCCCGGTACCCCCTCCCC
81283 T A S CACTCGCCAGCACTCCAGGCCCCCGGTACCCCCTCCCC
TCCCCGGGCCTAGTTTCCCCTGGGCTCCAGTCCCTGGGGTCTGCCACTCGCCAGCACTCC[GA]GGCCCCCGGTACC
81283 IS [GA] CCCTCCCCTACCCTGCCAGAGGGTAGAGGGAGACCTGGCCAAGGAGG
81288 I S GGTGAGTGGGCATGTGCATATTTGCTTTAAAACATTTTCCAT
81288 P T S CGCGCCGAGGATAACTGCTGACAACAGCY
81288 P C S ATGACGTGGCAGACGTAACTGCTGACAACAGCY
81288 T T S GGTTGCTGTTGTCAGCAGTTATTGGAAAATGTTTTAAAGCAAATATGCACATGCCCACTCACCCA
81288 T C S GGTTGCTGTTGTCAGCAGTTACTGGAAAATGTTTTAAAGCAAATATGCACATGCCCACTCACCCA
ATCTCAGGATGGGGAGAAACTGGGTGCCTGGAGGCTTCAGGTTGCTGTTGTCAGCAGTTA[TC]TGGAAAATGTTTTAA
81288 IS [TC] AGCAAATATGCACATGCCCACTCACCCATGCACACACATCTGCTT

FIGURE 129D

81319 I		S	CAGAATCATTCTCCAGCTGGGCCCCTCAGA
81319 P	A	S	CGCGCCGAGGTGCTGGTGATCTTGCY
81319 P	G	S	ATGACGTGGCAGACCGCTGGTGATCTTGCY
81319 T	A	S	CTCGGCAAGATCACCAGCACTGAGGGGCCCAGCTGGAGAATGATTCTGCT
81319 T	G	S	CTCGGCAAGATCACCAGCGCTGAGGGGCCCAGCTGGAGAATGATTCTGCT
			ATGCCAAGACACCCGGGTTCTGAAAATGTGCTGTGTTCCTACCTCGGCAAGATCACCAGC[AG]CTGAGGGGCCCAGC
			TGGAGAATGATTCTGCTACAAAAGGAGACAGTTGAGACTTTTGCTT
81319 IS	[AG]		
81326 I		S	AGCTTAGCTTTCAGACAGAGGCTTTTTGGTTGC
81326 P	A	S	CGCGCCGAGGTTGTTTGATTTTCATTACAGTACTTY
81326 P	C	S	ATGACGTGGCAGACGTGTTTGATTTTCATTACAGTACTY
81326 T	A	S	CATCAAGTACTGTAATGAAAATCAAACAACAACCAAAAAGCCTCTGTCTGAAAGCTAAGCTGA
81326 T	C	S	CATCAAGTACTGTAATGAAAATCAAACACCAACCAAAAAGCCTCTGTCTGAAAGCTAAGCTGA
			AGTGAAATAGCTTGGTCCACACTTAATGCGTTCATCAAGTACTGTAATGAAAATCAAACA[AC]CAACCAAAAAGCCTCT
			GTCTGAAAGCTAAGCTGAAATAAGACGTGATTGCTTTTGATATC
81326 IS	[AC]		
81353 I		A	TGGTTTCTGACCCCATAATTGGTTTAGAATAACTTCAGTGCCTT
81353 P	G	A	ATGACGTGGCAGACGAACAGAACCTCCACAGY
81353 P	A	A	CGCGCCGAGGAAACAGAACCTCCACAGY
81353 T	G	A	TGTGCTGTGGAGGTTCTGTTCAGGCACTGAAGTTATTCTAAACCAATTATGGGGTCAGAAACCAAT
81353 T	A	A	TGTGCTGTGGAGGTTCTGTTTAGGCACTGAAGTTATTCTAAACCAATTATGGGGTCAGAAACCAAT
			AGGAATTGACCACAGATTGGTTTCTGACCCCATAATTGGTTTAGAATAACTTCAGTGCCT[GA]AACAGAACCTCCACAG
			CACAATCAATAAATCAAAAGCCAAATCAGGTCAGAGAAGGGGTCT
81353 IS	[GA]		
81432 I		S	ACTTTACTTTTCTCTGAGGAAGTGGTTTAGGGGCA
81432 P	A	S	CGCGCCGAGGTGCTACTGGCCCCY
81432 P	G	S	ATGACGTGGCAGACCGCTACTGGCCCCY
81432 T	A	S	GAGGGGGGCCAGTAGCAGCCCCTAAACCACTTCCTCAGAGAAAAGTAAAGTAA
81432 T	G	S	GAGGGGGGCCAGTAGCGGCCCCTAAACCACTTCCTCAGAGAAAAGTAAAGTAA
			TCCCCTGGGGGTCCTGCAGAGTACCTGTGCTGACCTGAGCCCACGAGGGGGGCCAGTAGC[AG]GCCCCTAAACCAC
			TTCCTCAGAGAAAAGTAAAGTAATATTCTTACCAAGAGAAGGCTTGC
81432 IS	[AG]		
81459 I		A	TGTCCGGGTTCCCTGCACACCTGTA
81459 P	C	A	ATGACGTGGCAGACCGCCAGGTTAAACAACCY
81459 P	T	A	CGCGCCGAGGTGCCAGGTTAAACAACCY
81459 T	C	A	CGATGGTTGTTTAACCTGGCGACAGGTGTGCAGGGAACCCGGACATC
81459 T	T	A	CGATGGTTGTTTAACCTGGCAACAGGTGTGCAGGGAACCCGGACATC
			CTTTTACTTGTTATTTCCGCAGGTGGTGATTCTAGATGTCCGGGTTCCCTGCACACCTGT[CT]GCCAGGTTAAACAAC
			CATCGAGCATGTGTCAATGGCATTGCTTGGGCCCCACATTCATCC
81459 IS	[CT]		
81479 I		A	AGGAATCCTTATAGCCCCAGGTTCCCTTA
81479 P	T	A	CGCGCCGAGGTTAAAGTCTAGTTGCTAGCTAAAY
81479 P	C	A	ATGACGTGGCAGACCTAAAGTCTAGTTGCTAGCTAAAY
81479 T	T	A	CGATTTTAGCTAGCAACTAGACTTTAAAAGGGAACGTGGGGCTATAAGGATTCCTTC
81479 T	C	A	CGATTTTAGCTAGCAACTAGACTTTAGAAGGGAACGTGGGGCTATAAGGATTCCTTC
			AATAGTAAAGACTTTCAGAACCTTTTTAAAGAAGGAATCCTTATAGCCCCACGTTCCCTT[TC]TAAAGTCTAGTTGCTAG
			CTAAAATCGAATGCAATTTTTCTTTCAATAAGCTTCAATATAA
81479 IS	[TC]		
81487 I		S	CCAATTCCCCAGCACTCATTTAGCACCCTACAGATTAT
81487 P	T	S	CGCGCCGAGGACCAAAGTGGTAACAGCY
81487 P	G	S	ATGACGTGGCAGACCCCAAAGTGGTAACAGCY
81487 T	T	S	CTCAGCTGTTACCACTTTGGTTAATCTGTAGGGTGCTAAATGAGTGCTGGGGAATTGGAG
81487 T	G	S	CTCAGCTGTTACCACTTTGGGTAATCTGTAGGGTGCTAAATGAGTGCTGGGGAATTGGAG
			CTTACATTCCTAATTCAGTGTTTATTGGTTAAAATTGTTCCTCAGCTGTTACCACTTTGG[TG]TAATCTGTAGGGTGCTA
			AATGAGTGCTGGGGAATTGGAGCCTTTTGCTGAGTCCTCCAGA
81487 IS	[TG]		
81502 I		S	GGCTGGAGGATTCAGCCCTCATCACCACT
81502 P	G	S	CGCGCCGAGGCTAGCTCTCTTCTCCCGY
81502 P	C	S	ATGACGTGGCAGACGTAGCTCTCTTCTCCCGY
81502 T	G	S	CCCCCGGGAGAAGAGAGCTAGGTGGTGATGAGGGCTGAATCCTCCAGCCAG
81502 T	C	S	CCCCCGGGAGAAGAGAGCTACGTGGTGATGAGGGCTGAATCCTCCAGCCAG
			CCCTCCAGGCAGGTCTATGAGGGGTGTGGAGGGAGGGCTGCCCCCGGGAGAAGAGAGCTA[GC]GTGGTGATGAGG
			GCTGAATCCTCCAGCCAGGGTGCTCAACAAGCCTGAGCTTGGGGTAAA
81502 IS	[GC]		
81515 I		A	GCGCCAGGCCACCCTGGGA
81515 P	C	A	ATGACGTGGCAGACCTCCAGGCACCCAGY
81515 P	T	A	CGCGCCGAGGTTCCAGGCACCCAGY
81515 T	C	A	GAGCCTGGGTGCCTGGAGCCCAGGGTGGCCTGGCGCCC
81515 T	T	A	GAGCCTGGGTGCCTGGAACCCAGGGTGGCCTGGCGCCC
			CCGAGAACAGGGGGCTGGGGAGAGAGGAAGAGGTGGGCCAGGGCGCCAGGCCACCCTGGG[CT]TCCAGGCACCCA
			GGCTCACTTCCTAGGAGGCAGCATGGGGAAGGGGATGGGCCGTACCTG
81515 IS	[CT]		
81523 I		A	CCACTCCCTGGTGTTTCCTAAGATTTTGTTTTGTCAGCATTT
81523 P	A	A	CGCGCCGAGGAAGAAGGCAGCTTTCAAGY
81523 P	C	A	ATGACGTGGCAGACCAGAAGGCAGCTTTCAAY
81523 T	A	A	ACATCTTGAAAGCTGCCTTCTTAATGCTGACAAAACAAAATCTTAGGAAACACCAGGGAGTGGTT
81523 T	C	A	ACATCTTGAAAGCTGCCTTCTGAATGCTGACAAAACAAAATCTTAGGAAACACCAGGGAGTGGTT
			ATTGCTTTGTGTTTTATAACCACTCCCTGGTGTTTCCTAAGATTTTGTTTTGTCAGCATT[AC]AGAAGGCAGCTTTCAAG
			ATGTTGTCATTTGATAATTCAGCTGCCTTCATGCTCTCAGCAT
81523 IS	[AC]		
81534 I		S	CCCCCGACCTCCTCTTGGCCGAAT
81534 P	C	S	ATGACGTGGCAGACGTTGACCTCCCCAAACY
81534 P	T	S	CGCGCCGAGGATTGACCTCCCCAAACTY
81534 T	C	S	CACCAGTTTGGGGAGGTCAACTTCGGCCAAGAGGAGGTCGGGGGCT
81534 T	T	S	CACCAGTTTGGGGAGGTCAATTTCGGCCAAGAGGAGGTCGGGGGCT
			CCAGACCTCATTCCCCTGCTCTGGTCCAGCGCGCAAAACTCACCAGTTTGGGGAGGTCAA[CT]TTCGGCCAAGAGGA
			GGTCGGGGGCTTCCAGCCACAGGTTCAGGTGAGGCTTTTCAGGCCT
81534 IS	[CT]		
81555 I		A	GGGGCTCAGGCTGGACAGTAATGCCTGT
81555 P	G	A	ATGACGTGGCAGACGGCTACAGACGCAGTY
81555 P	A	A	CGCGCCGAGGAGCTACAGACGCAGTGY
81555 T	G	A	TATCCACTGCGTCTGTAGCCCAGGCATTACTGTCCAGCCTGAGCCCCTG
81555 T	A	A	TATCCACTGCGTCTGTAGCTCAGGCATTACTGTCCAGCCTGAGCCCCTG
			GATGCCCGGAGGCCAGGATGTCAGGAGCGGTCAGGGGCTCAGGCTGGACAGTAATGCCTG[GA]GCTACAGACGCAG
			TGGATACACCTGCTGTTTAAATGACTACAGGTGTGGACTCCCTACCC
81555 IS	[GA]		
81569 I		S	CCTGGAATCATCTCCAGAGAAGGAGGCTGCAA
81569 P	G	S	ATGACGTGGCAGACCGTGGTTTGTGAGATATTTTCY
81569 P	A	S	CGCGCCGAGGTGTGGTTTGTGAGATATTTTCTY
81569 T	G	S	TTTAAGAAAATATCTCACAAACCACGTGCAGCCTCCTTCTCTGGAGATGATTCCAGGTC
81569 T	A	S	TTTAAGAAAATATCTCACAAACCACATGCAGCCTCCTTCTCTGGAGATGATTCCAGGTC
			GAGAAACCTGTGAAGGTTTTGTGAGGGAAGGATTTTTTAAGAAAATATCTCACAAACCAC[GA]TGCAGCCTCCTTCTCT
			GGAGATGATTCCAGGTCCTTGGGTGTGGAATTATCACTTTGCAT
81569 IS	[GA]		
81580 I		A	CTGGTGCTGCTTGCGAAGGCGCA
81580 P	T	A	CGCGCCGAGGTGCCTGGCTGGAGY
81580 P	C	A	ATGACGTGGCAGACCCCCTGGCTGGAGY
81580 T	T	A	CTTCCTCCAGCCAGGCAGCGCCTTCGCAAGCAGCACCAGGG
81580 T	C	A	CTTCCTCCAGCCAGGCGGCGCCTTCGCAAGCAGCACCAGGG
			CGGGAGCAAAAGGTAAGCAACTCTGGTTTTCGGCTTCCCTGGTGCTGCTTGCGAAGGCGC[TC]GCCTGGCTGGAGG
			AAGCCCTCAGCCCTGATGGATTGACTTCTCTCTTACACAGTACCACC
81580 IS	[TC]		
81581 I		S	CTGAGGAAGTCCACCGGCTGCTGAGAAGT

FIGURE 129D

81581 P	C	S	ATGACGTGGCAGACGTGCCCCTACCACTTY	
81581 P	T	S	CGCGCCGAGGATGCCCCTACCACTTTY	
81581 T	C	S	ACACAAAGTGGTAGGGGCACCTTCTCAGCAGCCGGTGGACTTCCTCAGTC	
81581 T	T	S	ACACAAAGTGGTAGGGGCATCTTCTCAGCAGCCGGTGGACTTCCTCAGTC	
81581 IS	[CT]		CAACATCTCGCCTTTGCCCTTGACACTGACTTTGCCTCGGCACACAAAGTGGTAGGGGCA[CT]CTTCTCAGCAGCCG GTGGACTTCCTCAGTCACCTGTTGATGGAGAGAAGTGAGTGTTACT	
81593 I		A	GACAACTATGCTTGTAATCAAGGGCTGCCTGTGTC	
81593 P	T	A	CGCGCCGAGGTTAAGACTTAAAAGTAGGGACTGY	
81593 P	A	A	ATGACGTGGCAGACATAAGACTTAAAAGTAGGGACTGY	
81593 T	T	A	CCCCCAGTCCCTACTTTTAAGTCTTAAACACAGGCAGCCCTTGATTACAAGCATAGTTGTCCC	
81593 T	A	A	CCCCCAGTCCCTACTTTTAAGTCTTATACACAGGCAGCCCTTGATTACAAGCATAGTTGTCCC	
81593 IS	[TA]		CTATGGGTCTCCTCAGGATGCTGAGGGACAACTATGCTTGTAATCAAGGGCTGCCTGTGT[TA]TAAGACTTAAAAGTA GGGACTGGGGGGCTTCTCTGGACCACTCAGTAAAGATCCCCAAAG	
81603 I		S	CTGTCATGTGGTAAGGCTCCCCCTGAGGT	
81603 P	C	S	ATGACGTGGCAGACGCAGCAGCTTCCCAY	
81603 P	T	S	CGCGCCGAGGACAGCAGCTTCCCATY	
81603 T	C	S	CCAGATGGGAAGCTGCTGCCCTCAGGGGGAGCCTTACCACATGACAGGT	
81603 T	T	S	CCAGATGGGAAGCTGCTGTCCTCAGGGGGAGCCTTACCACATGACAGGT	
81603 IS	[CT]		TGAGTGGGGGAGGGGTGGGGCTGAACAGAGAGGCTGGGGGGGCCAGATGGGAAGCTGCTG[CT]CCTCAGGGGGA GCCTTACCACATGACAGGTCAGATTTGCAGTGTAGACAGACTCCTCTGC	
81693 I		S	TCTCCATGCCCGCTTCAGTTATGCCACAA	
81693 P	G	S	ATGACGTGGCAGACCCCAAGGGAAGAGCAY	
81693 P	A	S	CGCGCCGAGGTCCAAGGGAAGAGCAAY	
81693 T	G	S	TGTTTTGCTCTTCCCTTGGGTGTGGCATAACTGAAGCGGGCATGGAGACG	
81693 T	A	S	TGTTTTGCTCTTCCCTTGGATGTGGCATAACTGAAGCGGGCATGGAGACG	
81693 IS	[GA]		TGGTGACAGCCTCTCCCTCACTGTCCTCCCAGATCTTAGTGTGTTTTGCTCTTCCCTTGG[GA]TGTGGCATAACTGAA GCGGGCATGGAGACGGCGGGGCATTGACCTATGACTCACAGATAT	
81727 I		S	GGTTCCTTTGAATTTCCTCCCAGAAAGCTCAGATTTCTTTCTTTTTTTTA	
81727 P	A	S	CGCGCCGAGGTCCCCCCTTCTTCTTCY	
81727 P	G	S	ATGACGTGGCAGACCCCCCCCTTCTTCTTCY	
81727 T	A	S	TACTGAAGAAGAAGGGGGGAAAAAAAAAGAAAGAAATCTGAGCTTTCTGGGAGGAAATTCAAAGGAACCAA	
81727 T	G	S	TACTGAAGAAGAAGGGGGGGAAAAAAAAGAAAGAAATCTGAGCTTTCTGGGAGGAAATTCAAAGGAACCAA	
81727 IS	[AG]		GCCTGTGGGTCTTCTCTTCTAGTATCAGTGAGGGGAGGGATTACTGAAGAAGAAGGGGGG[AG]AAAAAAAAGAAAGA AATCTGAGCTTTCTGGGAGGAAATTCAAAGGAACCAAGAGAAATTA	
81753 I		A	AAAACAACCCCAACACACCAGAAAACCATCTTATGCTTTTTTGC	
81753 P	G	A	ATGACGTGGCAGACGCACAATCCCATGATGCY	
81753 P	T	A	CGCGCCGAGGTCACAATCCCATGATGCY	
81753 T	G	A	ATCAGCATCATGGGATTGTGCCAAAAAAGCATAAGATGGTTTTCTGGTGTGTTGGGGTTGTTTTGC	
81753 T	T	A	ATCAGCATCATGGGATTGTGACAAAAAAGCATAAGATGGTTTTCTGGTGTGTTGGGGTTGTTTTGC	
81753 IS	[GT]		GAGCAGATAGTTTAGGCAAAACAACCCCAACACACCAGAAAACCATCTTATGCTTTTTTG[GT]CACAATCCCATGATGC TGATAGTGTTCCCTACTCAGAGTAGACTGAATTATGAGGGGTAG	
81776 I		A	GGCGCAGGGCTAGAGCGGCGT	
81776 P	A	A	CGCGCCGAGGAGGGCAGACGTGGY	
81776 P	C	A	ATGACGTGGCAGACCGGGCAGACGTGGY	
81776 T	A	A	CCTACCACGTCTGCCCTCGCCGCTCTAGCCCTGCGCCCC	
81776 T	C	A	CCTACCACGTCTGCCCGCGCCGCTCTAGCCCTGCGCCCC	
81776 IS	[AC]		ACCTAGCGGCCGGCGAGGCGGAGGTGCCGCGGCCGGGCTGGGGCGCAGGGCTAGAGCGGCG[AC]GGGCAGACGTG GTAGGTGGAGGGAGGCGGCGCCAGCCCCGCAGCCGCAGCTGTCGTTTCC	
81849 I		A	ACGTTTGTTGGGGGAAGGGAGAACGA	
81849 P	T	A	CGCGCCGAGGTTGGAAAACTAAAGCAAATGATTY	
81849 P	C	A	ATGACGTGGCAGACCTGGAAAACTAAAGCAAATGATY	
81849 T	T	A	AAAAAATCATTTGCTTTAGTTTTCCAACGTTCTCCCTTCCCCCAACAAACGTTA	
81849 T	C	A	AAAAAATCATTTGCTTTAGTTTTCCAGCGTTCTCCCTTCCCCCAACAAACGTTA	
81849 IS	[TC]		AACAACTAGAAATACATGGAATTTTTCTTTAAATAACGTTTGTTGGGGGAAGGGAGAACG[TC]TGGAAAACTAAAGCAA ATGATTTTTTCAATAGTGATCTTTGGTAAGGGTGTAAGGTGAAT	
81912 I		A	TGAACCCTGACATAATAGGTCCCTCGCCGGT	
81912 P	C	A	CGCGCCGAGGCTCCCGTAATCCCAGCY	
81912 P	G	A	ATGACGTGGCAGACGTCCCGTAATCCCAGCY	
81912 T	C	A	TCTAGCTGGGATTACGGGAGCCGGCGAGGGACCTATTATGTCAGGGTTCAGA	
81912 T	G	A	TCTAGCTGGGATTACGGGACCCGGCGAGGGACCTATTATGTCAGGGTTCAGA	
81912 IS	[CG]		GGAAAGGCTTGCATGCAGAGCTGGGTTGTCTGAACCCTGACATAATAGGTCCCTCGCCGG[CG]TCCCGTAATCCCAG CTAGAGGACTTTGGTCCCGTTTCCGGCAAGGCCACCACCTGACTTC	
81923 I		A	GATCCTGCTCTGTATCGTGGAGAAAGACCCAAGGC	
81923 P	T	A	CGCGCCGAGGTAAGTTCCCATTTCCAGTTAAY	
81923 P	A	A	ATGACGTGGCAGACAAAGTTCCCATTTCCAGTTAAY	
81923 T	T	A	GAGCTTAACTGGAAATGGGAACTTACCTTGGGTCTTTCTCCACGATACAGAGCAGGATCAC	
81923 T	A	A	GAGCTTAACTGGAAATGGGAACTTTCCTTGGGTCTTTCTCCACGATACAGAGCAGGATCAC	
81923 IS	[TA]		GCTTCTTAAAGGAATGAGCACATTGTGATCCTGCTCTGTATCGTGGAGAAAGACCCAAGG[TA]AAGTTCCCATTTCCA GTTAAGCTCAGCCTAACCTCTCTTAATAGCTATTCCTAGTTCTGC	
81936 I		S	CTCCAACTCCAGAAGGGACATTCAGGGTCTCAAT	
81936 P	C	S	ATGACGTGGCAGACGCAAAGCACTGGATATCTY	
81936 P	T	S	CGCGCCGAGGACAAAGCACTGGATATCTCY	
81936 T	C	S	CCGAGAGATATCCAGTGCTTTGCTTGAGACCCTGAATGTCCCTTCTGGAGTTGGAGAG	
81936 T	T	S	CCGAGAGATATCCAGTGCTTTGTTTGAGACCCTGAATGTCCCTTCTGGAGTTGGAGAG	
81936 IS	[CT]		AAGCAGGTGCCCACGGAGTTTGCAAAGGAGAAACTGAGCCGAGAGATATCCAGTGCTTTG[CT]TTGAGACCCTGAAT GTCCCTTCTGGAGTTGGAGAGTGGGTGAAAAGAGCCAGGTCTGGGA	
81940 I		A	CCAGCAGTGCGCCTGCGCGA	
81940 P	T	A	CGCGCCGAGGTCTTTCCCGCGCGY	
81940 P	C	A	ATGACGTGGCAGACCCTTTCCCGCGCY	
81940 T	T	A	GGAGCGCGCGGGAAAGACGCGCAGGCGCACTGCTGGCA	
81940 T	C	A	GGAGCGCGCGGGAAAGGCGCGCAGGCGCACTGCTGGCA	
81940 IS	[TC]		GGGTTTAGCTCCGCCCACCCCAGCACAGGCAAGCACCCTTGCCAGCAGTGCGCCTGCGCG[TC]CTTTCCCGCGCGC TCCAGGCTGGAGTTAATTCTGTCCTTGGCCGGCCGCCGTTCACAAAG	
81962 I		S	TTCCTCTCAGAGAGCAATTTATTTAAATATCAGTAAACCTATTTTTAAACTTAGATGAA	
81962 P	A	S	CGCGCCGAGGTTCAGCCCAACTGAGAY	
81962 P	G	S	ATGACGTGGCAGACCTCAGCCCAACTGAGAY	
81962 T	A	S	CTCCTCTCAGTTGGGCTGAATCATCTAAGTTTAAAAATAGGTTTACTGATATTTAAATAAATTGCTCTCTGAGAGGAACA	
81962 T	G	S	CTCCTCTCAGTTGGGCTGAGTCATCTAAGTTTAAAAATAGGTTTACTGATATTTAAATAAATTGCTCTCTGAGAGGAAC A	
81962 IS	[AG]		AATCTCTAAAACAGCATGTTAGAGAATTCTGAGACAAAGCACTCCTCTCAGTTGGGCTGA[AG]TCATCTAAGTTTAAAA ATAGGTTTACTGATATTTAAATAAATTGCTCTCTGAGAGGAACA	
82018 I		S	TGGATATATCACTTGACAGATTTCCGAAGAAGTCTGTTTCTTAT	
82018 P	C	S	ATGACGTGGCAGACGAAGAAATAGAATCAAATAGAAGAGCY	
82018 P	G	S	CGCGCCGAGGCAAGAAATAGAATCAAATAGAAGAGCY	
82018 T	C	S	TTCAGCTCTTCTATTTGATTCTATTTCTTCTAAGAAACAGACTTCTTCGGAAATCTGTCAAGTGATATATCCAAC	

FIGURE 129D

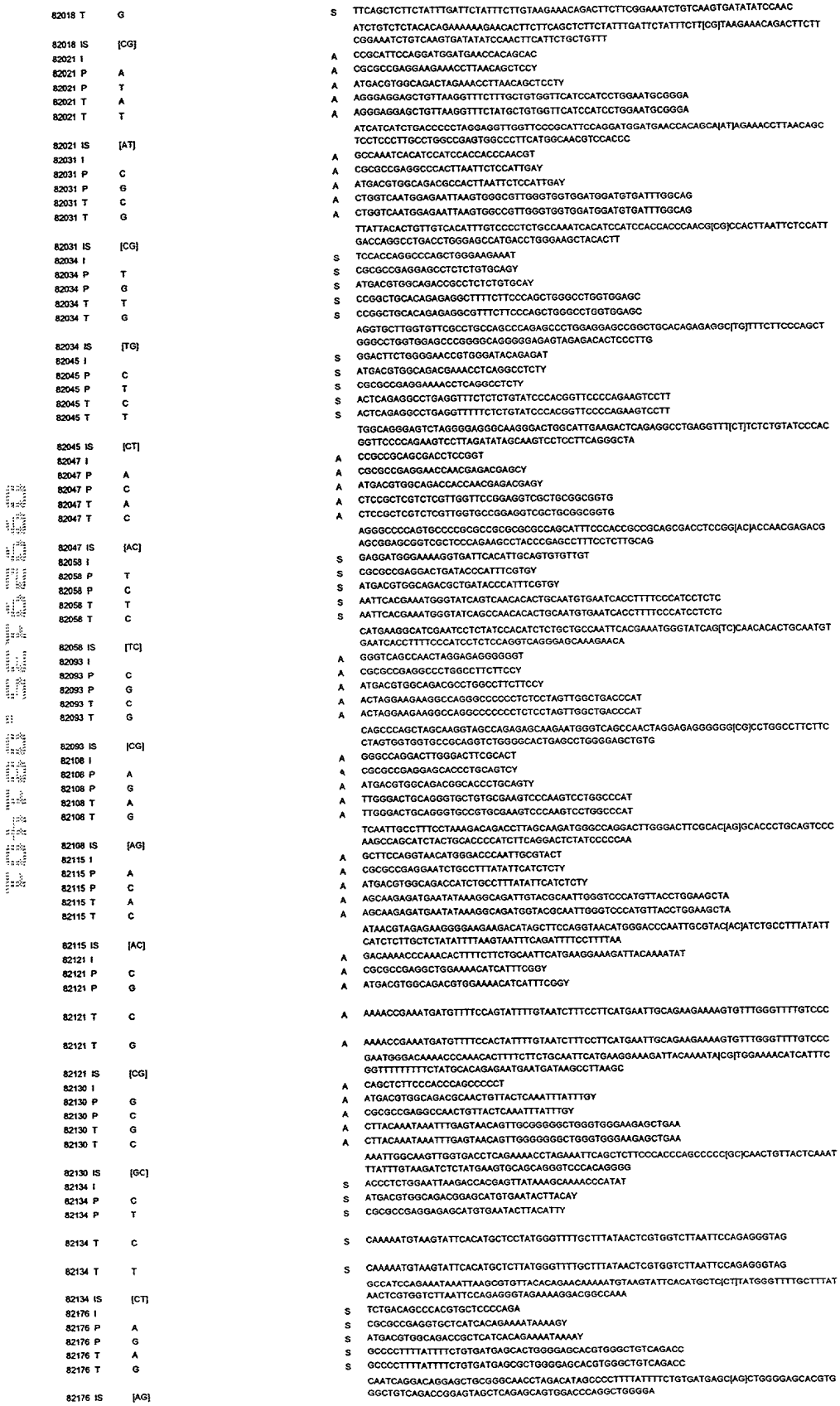
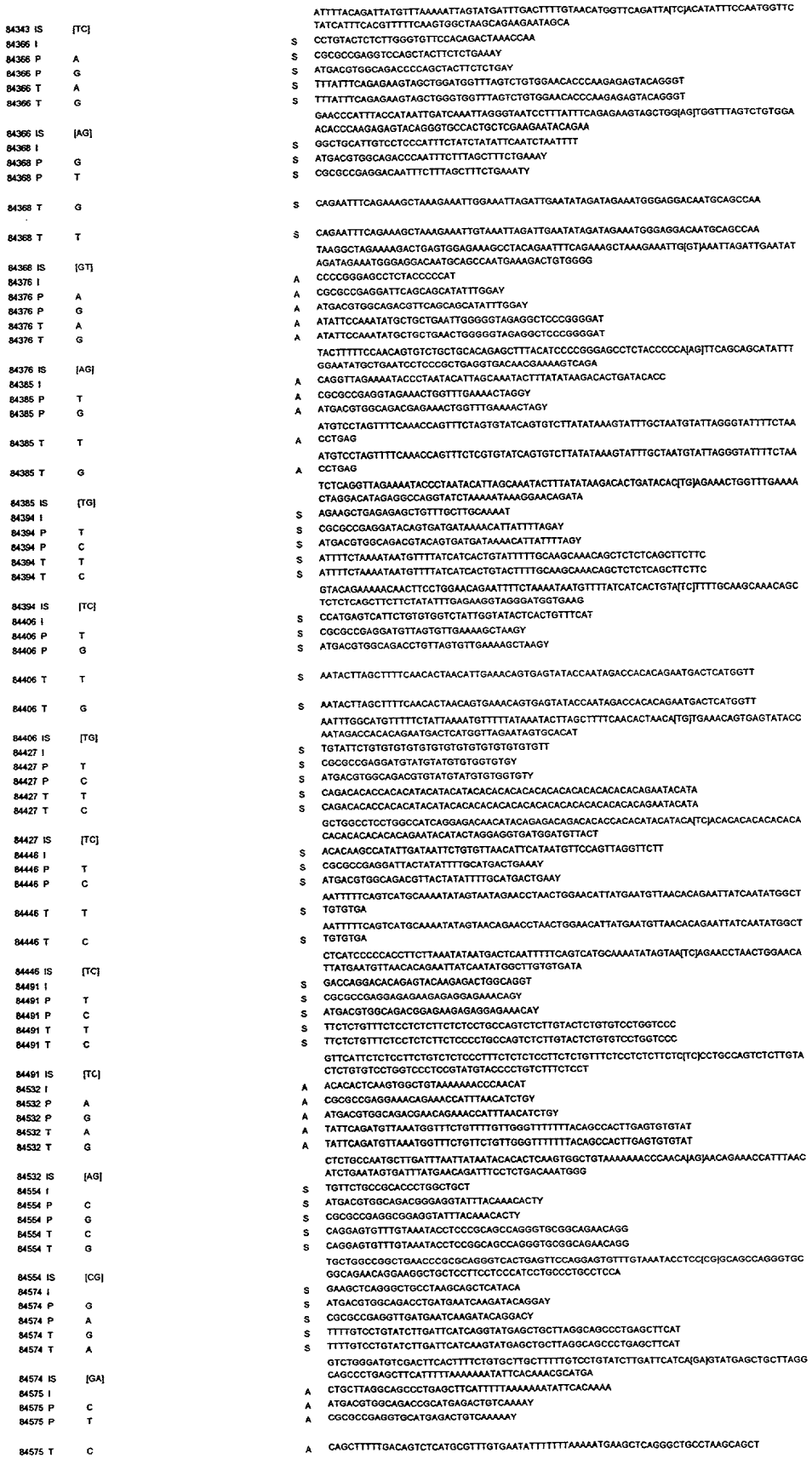

82018 T G
S TTCAGCTCTTCTATTTGATTCTATTTCTTGTAAGAAACAGACTTCTTCGGAAATCTGTCAAGTGATATATCCAAC
ATCTGTCTCTACACAGAAAAAAGAACACTTCTTCAGCTCTTCTATTTGATTCTATTTCTT[CG]TAAGAAACAGACTTCTT
82018 IS [CG]
CGGAAATCTGTCAAGTGATATATCCAACTTCATTCTGCTGTTT
82021 I
A CCGCATTCCAGGATGGATGAACCACAGCAC
82021 P A
A CGCGCCGAGGAAGAAACCTTAACAGCTCCY
82021 P T
A ATGACGTGGCAGACTAGAAACCTTAACAGCTCCTY
82021 T A
A AGGGAGGAGCTGTTAAGGTTTCTTTGCTGTGGTTCATCCATCCTGGAATGCGGGA
82021 T T
A AGGGAGGAGCTGTTAAGGTTTCTATGCTGTGGTTCATCCATCCTGGAATGCGGGA
ATCATCATCTGACCCCCTAGGAGGTTGGTTCCCGCATTCCAGGATGGATGAACCACAGCA[AT]AGAAACCTTAACAGC
82021 IS [AT]
TCCTCCCTTGCCTGGCCGAGTGGCCCTTCATGGCAACGTCCACCC
82031 I
A GCCAAATCACATCCATCCACCACCCAACGT
82031 P C
A CGCGCCGAGGCCCACTTAATTCTCCATTGAY
82031 P G
A ATGACGTGGCAGACGCCACTTAATTCTCCATTGAY
82031 T C
A CTGGTCAATGGAGAATTAAGTGGGCGTTGGGTGGTGGATGGATGTGATTTGGCAG
82031 T G
A CTGGTCAATGGAGAATTAAGTGGCCGTTGGGTGGTGGATGGATGTGATTTGGCAG
TTATTACACTGTTGTCACATTTGTCCCCTCTGCCAAATCACATCCATCCACCACCCAACG[CG]CCACTTAATTCTCCATT
82031 IS [CG]
GACCAGGCCTGACCTGGGAGCCATGACCTGGGAAGCTACACTT
82034 I
S TCCACCAGGCCCAGCTGGGAAGAAAT
82034 P T
S CGCGCCGAGGAGCCTCTCTGTGCAGY
82034 P G
S ATGACGTGGCAGACCGCCTCTCTGTGCAY
82034 T T
S CCGGCTGCACAGAGAGGCTTTTCTTCCCAGCTGGGCCTGGTGGAGC
82034 T G
S CCGGCTGCACAGAGAGGCGTTTCTTCCCAGCTGGGCCTGGTGGAGC
AGGTGCTTGGTGTTCGCCTGCCAGCCCAGAGCCCTGGAGGAGCCGGCTGCACAGAGAGGC[TG]TTTCTTCCCAGCT
82034 IS [TG]
GGGCCTGGTGGAGCCCGGGGCAGGGGGAGAGTAGAGACACTCCCTTG
82045 I
S GGACTTCTGGGGAACCGTGGGATACAGAGAT
82045 P C
S ATGACGTGGCAGACGAAACCTCAGGCCTCTY
82045 P T
S CGCGCCGAGGAAAACCTCAGGCCTCTY
82045 T C
S ACTCAGAGGCCTGAGGTTTCTCTCTGTATCCCACGGTTCCCCAGAAGTCCTT
82045 T T
S ACTCAGAGGCCTGAGGTTTTTCTCTGTATCCCACGGTTCCCCAGAAGTCCTT
TGGCAGGGAGTCTAGGGGAGGGCAAGGGACTGGCATTGAAGACTCAGAGGCCTGAGGTTT[CT]TCTCTGTATCCCAC
82045 IS [CT]
GGTTCCCCAGAAGTCCTTAGATATAGCAAGTCCTCCTTCAGGGCTA
82047 I
A CCGCCGCAGCGACCTCCGGT
82047 P A
A CGCGCCGAGGAACCAACGAGACGAGCY
82047 P C
A ATGACGTGGCAGACCACCAACGAGACGAGY
82047 T A
A CTCCGCTCGTCTCGTTGGTTCCGGAGGTCGCTGCGGCGGTG
82047 T C
A CTCCGCTCGTCTCGTTGGTGCCGGAGGTCGCTGCGGCGGTG
AGGGCCCCAGTGCCCCGCGCCGCGCGCGCCAGCATTTCCCACCGCCGCAGCGACCTCCGG[AC]ACCAACGAGACG
82047 IS [AC]
AGCGGAGCGGTCGCTCCCAGAAGCCTACCCGAGCCTTTCCTCTTGCAG
82058 I
S GAGGATGGGAAAAGGTGATTCACATTGCAGTGTGTTGT
82058 P T
S CGCGCCGAGGACTGATACCCATTTCGTGY
82058 P C
S ATGACGTGGCAGACGCTGATACCCATTTCGTGY
82058 T T
S AATTCACGAAATGGGTATCAGTCAACACACTGCAATGTGAATCACCTTTTCCCATCCTCTC
82058 T C
S AATTCACGAAATGGGTATCAGCCAACACACTGCAATGTGAATCACCTTTTCCCATCCTCTC
CATGAAGGCATCGAATCCTCTATCCACATCTCTGCTGCCAATTCACGAAATGGGTATCAG[TC]CAACACACTGCAATGT
82058 IS [TC]
GAATCACCTTTTCCCATCCTCTCCAGGTCAGGGAGCAAAGAACA
82093 I
A GGGTCAGCCAACTAGGAGAGGGGGGT
82093 P C
A CGCGCCGAGGCCCTGGCCTTCTTCCY
82093 P G
A ATGACGTGGCAGACGCCTGGCCTTCTTCCY
82093 T C
A ACTAGGAAGAAGGCCAGGGCCCCCCTCTCCTAGTTGGCTGACCCAT
82093 T G
A ACTAGGAAGAAGGCCAGGCCCCCCCTCTCCTAGTTGGCTGACCCAT
CAGCCCAGCTAGCAAGGTAGCCAGAGAGCAAGAATGGGTCAGCCAACTAGGAGAGGGGGG[CG]CCTGGCCTTCTTC
82093 IS [CG]
CTAGTGGTGGTGCCGCAGGTCTGGGGCACTGAGCCTGGGGAGCTGTG
82108 I
A GGGCCAGGACTTGGGACTTCGCACT
82108 P A
A CGCGCCGAGGAGCACCCTGCAGTCY
82108 P G
A ATGACGTGGCAGACGGCACCCTGCAGTY
82108 T A
A TTGGGACTGCAGGGTGCTGTGCGAAGTCCCAAGTCCTGGCCCAT
82108 T G
A TTGGGACTGCAGGGTGCCGTGCGAAGTCCCAAGTCCTGGCCCAT
TCAATTGCCTTTCCTAAAGACAGACCTTAGCAAGATGGGCCAGGACTTGGGACTTCGCAC[AG]GCACCCTGCAGTCCC
82108 IS [AG]
AAGCCAGCATCTACTGCACCCCATCTTCAGGACTCTATCCCCCAA
82115 I
A GCTTCCAGGTAACATGGGACCCAATTGCGTACT
82115 P A
A CGCGCCGAGGAATCTGCCTTTATATTCATCTCTY
82115 P C
A ATGACGTGGCAGACCATCTGCCTTTATATTCATCTCTY
82115 T A
A AGCAAGAGATGAATATAAAGGCAGATTGTACGCAATTGGGTCCCATGTTACCTGGAAGCTA
82115 T C
A AGCAAGAGATGAATATAAAGGCAGATGGTACGCAATTGGGTCCCATGTTACCTGGAAGCTA
ATAACGTAGAGAAGGGGAAGAAGACATAGCTTCCAGGTAACATGGGACCCAATTGCGTAC[AC]ATCTGCCTTTATATT
82115 IS [AC]
CATCTCTTGCTCTATATTTTAAGTAATTTCAGATTTTCCTTTTAA
82121 I
A GACAAAACCCAAACACTTTTCTTCTGCAATTCATGAAGGAAAGATTACAAAATAT
82121 P C
A CGCGCCGAGGCTGGAAAACATCATTTCGGY
82121 P G
A ATGACGTGGCAGACGTGGAAAACATCATTTCGGY
82121 T C
A AAAACCGAAATGATGTTTTCCAGTATTTTGTAATCTTTCCTTCATGAATTGCAGAAGAAAAGTGTTTGGGTTTTGTCCC
82121 T G
A AAAACCGAAATGATGTTTTCCACTATTTTGTAATCTTTCCTTCATGAATTGCAGAAGAAAAGTGTTTGGGTTTTGTCCC
GAATGGGACAAAACCCAAACACTTTTCTTCTGCAATTCATGAAGGAAAGATTACAAAATA[CG]TGGAAAACATCATTTC
82121 IS [CG]
GGTTTTTTTTTCTATGCACAGAGAATGAATGATAAGCCTTAAGC
82130 I
A CAGCTCTTCCCACCCAGCCCCCT
82130 P G
A ATGACGTGGCAGACGCAACTGTTACTCAAATTTATTTGY
82130 P C
A CGCGCCGAGGCCAACTGTTACTCAAATTTATTTGY
82130 T G
A CTTACAAATAAATTTGAGTAACAGTTGCGGGGGGCTGGGTGGGAAGAGCTGAA
82130 T C
A CTTACAAATAAATTTGAGTAACAGTTGGGGGGGCTGGGTGGGAAGAGCTGAA
AAATTGGCAAGTTGGTGACCTCAGAAAACCTAGAAATTCAGCTCTTCCCACCCAGCCCCC[GC]CAACTGTTACTCAAAT
82130 IS [GC]
TTATTTGTAAGATCTCTATGAAGTGCAGCAGGGTCCCACAGGGG
82134 I
S ACCCTCTGGAATTAAGACCACGAGTTATAAAGCAAAACCCATAT
82134 P C
S ATGACGTGGCAGACGGAGCATGTGAATACTTACAY
82134 P T
S CGCGCCGAGGAGACATGTGAATACTTACATTY
82134 T C
S CAAAAATGTAAGTATTCACATGCTCCTATGGGTTTTGCTTTATAACTCGTGGTCTTAATTCCAGAGGGTAG
82134 T T
S CAAAAATGTAAGTATTCACATGCTCTTATGGGTTTTGCTTTATAACTCGTGGTCTTAATTCCAGAGGGTAG
GCCATCCAGAAATAAATTAAGCGTGTTACACAGAACAAAAATGTAAGTATTCACATGCTC[CT]TATGGGTTTTGCTTTAT
82134 IS [CT]
AACTCGTGGTCTTAATTCCAGAGGGTAGAAAAGGACGGCCAAA
82176 I
S TCTGACAGCCCACGTGCTCCCCAGA
82176 P A
S CGCGCCGAGGTGCTCATCACAGAAAATAAAAGY
82176 P G
S ATGACGTGGCAGACCGCTCATCACAGAAAATAAAAY
82176 T A
S GCCCCTTTTATTTTCTGTGATGAGCACTGGGGAGCACGTGGGCTGTCAGACC
82176 T G
S GCCCCTTTTATTTTCTGTGATGAGCGCTGGGGAGCACGTGGGCTGTCAGACC
CAATCAGGACAGGAGCTGCGGGCAACCTAGACATAGCCCCTTTTATTTTCTGTGATGAGC[AG]CTGGGGAGCACGTG
82176 IS [AG]
GGCTGTCAGACCGGAGTAGCTCAGAGCAGTGGACCCAGGCTGGGGA

FIGURE 129D

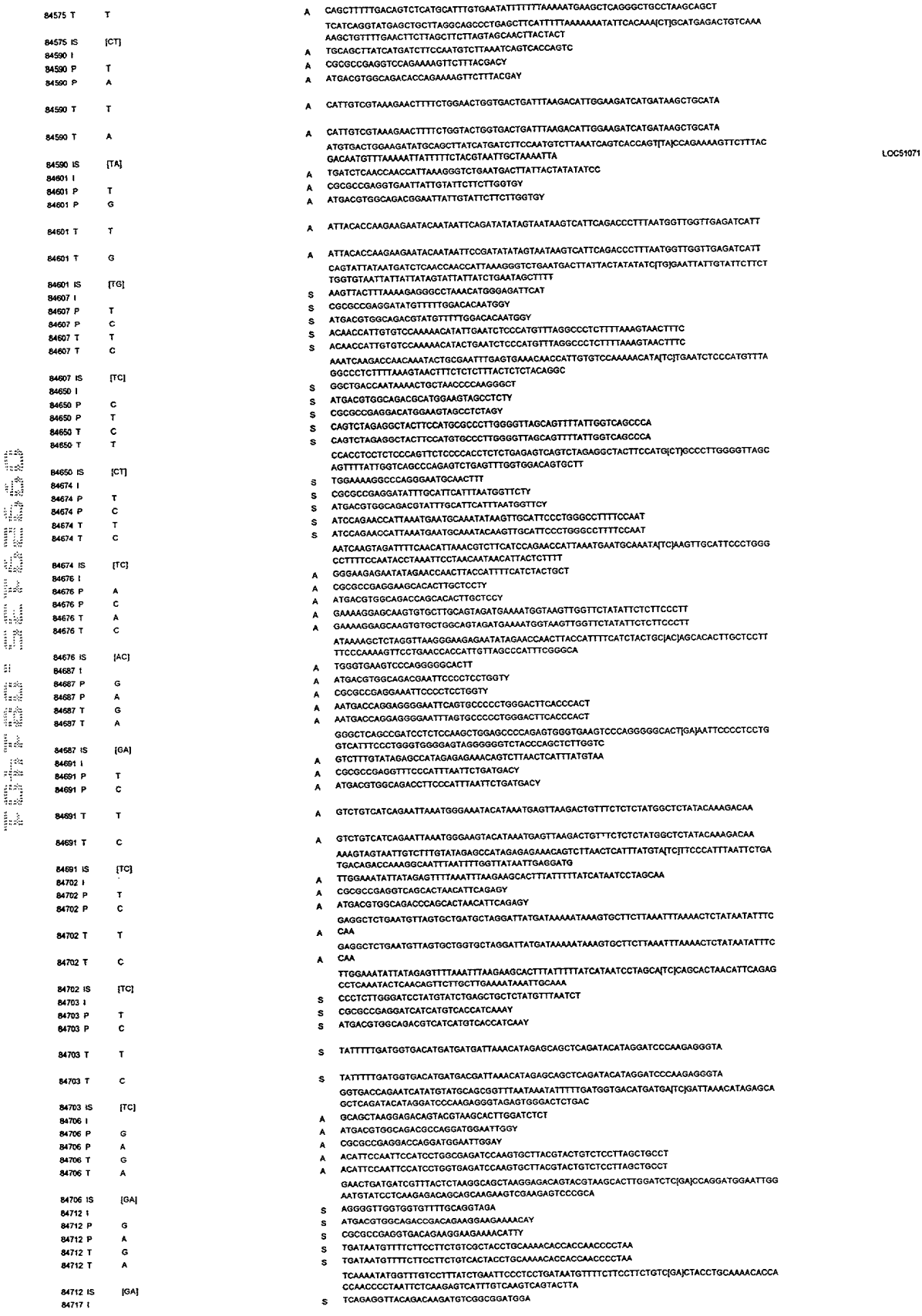
82210 I		A	CTCTTTTAAGTAGGTGAAACACTCATAATCTTATTTATAGAATTAATGTGCACAGA
82210 P	C	A	ATGACGTGGCAGACCAGGCAGTTTTTCAGAAGY
82210 P	T	A	CGCGCCGAGGTAGGCAGTTTTTCAGAAGCY
82210 T	C	A	TTTTGCTTCTGAAAAACTGCCTGCTGTGCACATTAATTCTATAAATAAGATTATGAGTGTTTCACCTACTTAAAAGAGCA
82210 T	T	A	TTTTGCTTCTGAAAAACTGCCTACTGTGCACATTAATTCTATAAATAAGATTATGAGTGTTTCACCTACTTAAAAGAGCA
82210 IS	[CT]		TTTTGCTCTTTTAAGTAGGTGAAACACTCATAATCTTATTTATAGAATTAATGTGCACAG[CT]AGGCAGTTTTTCAGAAG CAAAACCCAACCTAGATCTCAGGCTGGGCCAAATGATAAGATG
82402 I		S	AGAACAGATGAAACGGCAGAGATTCTCTGAGAATATCCCATAAGAT
82402 P	C	S	ATGACGTGGCAGACGCCCTTGATGCAGAGY
82402 P	T	S	CGCGCCGAGGACCCTTGATGCAGAGGY
82402 T	C	S	ATGGCCTCTGCATCAAGGGCTCTTATGGGATATTCTCAGAGAATCTCTGCCGTTTCATCTGTTCTGA
82402 T	T	S	ATGGCCTCTGCATCAAGGGTTCTTATGGGATATTCTCAGAGAATCTCTGCCGTTTCATCTGTTCTGA
82402 IS	[CT]		GCTAAGGTGACCCTCCCCTTCTGCTGGAAGTACCATGCCATATGGCCTCTGCATCAAGGG[CT]TCTTATGGGATATTC TCAGAGAATCTCTGCCGTTTCATCTGTTCTGATATCTACCCAAGC
82415 I		A	ACTGTGCTTCTTGTGGTACTCAAAAAGACTTGTTGAGAAGTGAT
82415 P	G	A	ATGACGTGGCAGACGTCGAAACTTCATGCTGAY
82415 P	A	A	CGCGCCGAGGATCGAAACTTCATGCTGACY
82415 T	G	A	ATAAGTCAGCATGAAGTTTCGACTCACTTCTCAACAAGTCTTTTTGAGTACCACAAGAAGCACAGTGT
82415 T	A	A	ATAAGTCAGCATGAAGTTTCGATTCACTTCTCAACAAGTCTTTTTGAGTACCACAAGAAGCACAGTGT
82415 IS	[GA]		ACAGCTTTTATCCCAACACTGTGCTTCTTGTGGTACTCAAAAAGACTTGTTGAGAAGTGA[GA]TCGAAACTTCATGCTG ACTTATGAAATCTTTACGGAAAGGTAACAATATTGTGAAAGCAG
84229 I		A	CCTGAAGTGCAAACTGACTTCAATTTTGAATAAAATTTAGCATTCAC
84229 P	A	A	CGCGCCGAGGAATTTATAGCCACTTTGAAAACTY
84229 P	T	A	ATGACGTGGCAGACTATTTATAGCCACTTTGAAAACTGY
84229 T	A	A	CCCTCAGTTTTCAAAGTGGCTATAAATTTGAATGCTAAATTTTATTCAAAATTGAAGTCAGTTTGCACTTCAGGGA
84229 T	T	A	CCCTCAGTTTTCAAAGTGGCTATAAATATGAATGCTAAATTTTATTCAAAATTGAAGTCAGTTTGCACTTCAGGGA
84229 IS	[AT]		TTAAAAAATTACTCCCTGAAGTGCAAACTGACTTCAATTTTGAATAAAATTTAGCATTCA[AT]ATTTATAGCCACTTTGAA AACTGAGGGTTTATTTATATCATATGAACTTGAACAGATACT
84253 I		S	CAGATGGAAATTCCCAGTTCTAACTTGATTTTTCAGTGTGTTGGTTT
84253 P	T	S	CGCGCCGAGGAATCTCCTTCATATACAAATGGTY
84253 P	G	S	ATGACGTGGCAGACCATCTCCTTCATATACAAATGGTY
84253 T	T	S	TTCTACCATTTGTATATGAAGGAGATTAACCAACACACTGAAAAATCAAGTTAGAACTGGGAATTTCCATCTGCT
84253 T	G	S	TTCTACCATTTGTATATGAAGGAGATGAACCAACACACTGAAAAATCAAGTTAGAACTGGGAATTTCCATCTGCT
84253 IS	[TG]		AAATTTAAAATAATCTCCCATTAGAAACCAAAACTTCTACCATTTGTATATGAAGGAGAT[TG]AACCAACACACTGAAAA ATCAAGTTAGAACTGGGAATTTCCATCTGCTAAATAAACAGCA
84257 I		S	GATGACCGCGGCTGCCTGACCTTCT
84257 P	C	S	ATGACGTGGCAGACGTCTCCAAGTTAGATATTCCAAY
84257 P	T	S	CGCGCCGAGGATCTCCAAGTTAGATATTCCAAAY
84257 T	C	S	CTGTTTTGGAATATCTAACTTGGAGACGAAGGTCAGGCAGCCGCGGTCATCGT
84257 T	T	S	CTGTTTTGGAATATCTAACTTGGAGATGAAGGTCAGGCAGCCGCGGTCATCGT
84257 IS	[CT]		AGCGTTCCATGGCAGACATGTTGCGTTGGATGCTCTGTTTTGGAATATCTAACTTGGAGA[CT]GAAGGTCAGGCAGCC GCGGTCATCGTAGTTAAAGAGCATTGGGCAGCAGTCATGGCCCTG
84295 I		A	CTTTGGTGGGAGGATGTTCGAGGCAGCT
84295 P	C	A	ATGACGTGGCAGACCGGGTATGGGGACTGY
84295 P	A	A	CGCGCCGAGGAGGGTATGGGGACTGTY
84295 T	C	A	GGCCACAGTCCCCATACCCGGCTGCCTCGAACATCCTCCCACCAAAGCC
84295 T	A	A	GGCCACAGTCCCCATACCCTGCTGCCTCGAACATCCTCCCACCAAAGCC
84295 IS	[CA]		CAGCATGCAGGTAAGAGAGGCTGGGGGCCCTGGCTTTGGTGGGAGGATGTTCGAGGCAGC[CA]GGGTATGGGGACT GTGGCCACCATCGGTGGGAGGTGGGGTTGGGTGGATCCCTCTCACTT
84299 I		S	CCTGAAAGGGGGAATGAGATTGCCACAACT
84299 P	C	S	ATGACGTGGCAGACGTCATACCAGGCCCTTY
84299 P	T	S	CGCGCCGAGGATCATACCAGGCCCTTY
84299 T	C	S	GTGCAAGGGCCTGGTATGACGTTGTGGCAATCTCATTCCCCCTTTCAGGTA
84299 T	T	S	GTGCAAGGGCCTGGTATGATGTTGTGGCAATCTCATTCCCCCTTTCAGGTA
84299 IS	[CT]		ATATGTTTTCCTTTTCTCTCCAGAGTGCCTAGGGCAGAGCTGTGCAAGGGCCTGGTATGA[CT]GTTGTGGCAATCTCA TTCCCCCTTTCAGGTATATAATGTTGACTCCAAAACCTATAATGC
84317 I		A	AGATGGGATGTAAATCACCATGACTGTCATCACTTATGAACAGTGT
84317 P	A	A	CGCGCCGAGGACTTAAACTCACACTACTTTTGTY
84317 P	G	A	ATGACGTGGCAGACGCTTAAACTCACACTACTTTTGY
84317 T	A	A	GATCACAAAAGTAGTGTGAGTTTAAGTCACTGTTCATAAGTGATGACAGTCATGGTGATTTACATCCCATCTAT
84317 T	G	A	GATCACAAAAGTAGTGTGAGTTTAAGCCACTGTTCATAAGTGATGACAGTCATGGTGATTTACATCCCATCTAT
84317 IS	[AG]		ATATTTAAGCTTAATAGATGGGATGTAAATCACCATGACTGTCATCACTTATGAACAGTG[AG]CTTAAACTCACACTACT TTTGTGATCATTAAAATGAACTTGTAATCATTAAAATGAATGT
84319 I		S	GTCATTCTCAAATAGAAAAGTAGTAGGACATTTAATAAAGGCAACAATTAATATTGAAT
84319 P	C	S	ATGACGTGGCAGACGAAGTGGAATCTTTTGGGTY
84319 P	G	S	CGCGCCGAGGCAAGTGGAATCTTTTGGGTY
84319 T	C	S	ATTTACCCAAAAGATTCCACTTCTTCAATATTAATTGTTGCCTTTATTAAATGTCCTACTACTTTTCTATTTGAGAATGAC AC
84319 T	G	S	ATTTACCCAAAAGATTCCACTTGTTCAATATTAATTGTTGCCTTTATTAAATGTCCTACTACTTTTCTATTTGAGAATGAC AC
84319 IS	[CG]		AATTAAGAGAATTATCCTTACATCATGCAAATAATTATATTTACCCAAAAGATTCCACTT[CG]TTCAATATTAATTGTTGC CTTTATTAAATGTCCTACTACTTTTCTATTTGAGAATGACAC
84334 I		S	GACAGTAGAAGTGTATTTGGGGGGAAATGCAATT
84334 P	T	S	CGCGCCGAGGATACTTATCACATCAGACTCCY
84334 P	C	S	ATGACGTGGCAGACGTACTTATCACATCAGACTCCY
84334 T	T	S	CACGGGAGTCTGATGTGATAAGTATATTGCATTTCCCCCCAAATACACTTCTACTGTCAG
84334 T	C	S	CACGGGAGTCTGATGTGATAAGTACATTGCATTTCCCCCCAAATACACTTCTACTGTCAG
84334 IS	[TC]		GAAAAAGGCTAACATTAAAACCACCAAATAAAATCCCACGGGAGTCTGATGTGATAAGTA[TC]ATTGCATTTCCCCCCA AATACACTTCTACTGTCAGTAGAAATATTTCCCATCCCTTTTAA
84343 I		S	GCTTAGCCACTTGAAAAACGTGAAATGATAGAACCATTGGAAATATGTT
84343 P	T	S	CGCGCCGAGGATAATCTGAACCATGTTACAAAAGY
84343 P	C	S	ATGACGTGGCAGACGTAATCTGAACCATGTTACAAAAY
84343 T	T	S	TTGACTTTTGTAACATGGTTCAGATTATACATATTTCCAATGGTTCTATCATTTCACGTTTTTCAAGTGGCTAAGCAG
84343 T	C	S	TTGACTTTTGTAACATGGTTCAGATTACACATATTTCCAATGGTTCTATCATTTCACGTTTTTCAAGTGGCTAAGCAG

FIGURE 129D



SUBSTITUTE SHEET (RULE 26)

FIGURE 129D



LOC51071

FIGURE 129D

84717 P	A	S	CGCGCCGAGGTAGCTTCGAGCCCTTGY
84717 P	G	S	ATGACGTGGCAGACCAGCTTCGAGCCCTY
84717 T	A	S	TCCGCAAGGGCTCGAAGCTACCATCCGCCGACATCTTGTCTGTAACCTCTGACC
84717 T	G	S	TCCGCAAGGGCTCGAAGCTGCCATCCGCCGACATCTTGTCTGTAACCTCTGACC
			GAAGCCGCCGTCGACAAGCTTCTGTCACAGAGATGCTCCTCTCCGCAAGGGCTCGAAGCT[AG]CCATCCGCCGACAT
			CTTGTCTGTAACCTCTGACCTCCGACGTCAGCGGAAGTGGAACGGC
84717 IS	[AG]		
84725 I		A	CCAGCACCAGGGAGGGGCACAGT
84725 P	G	A	ATGACGTGGCAGACGATCCTTTAAGAGGGGCY
84725 P	A	A	CGCGCCGAGGAATCCTTTAAGAGGGGCY
84725 T	G	A	GCCCGCCCCTCTTAAAGGATCCTGTGCCCCTCCCTGGTGCTGGGA
84725 T	A	A	GCCCGCCCCTCTTAAAGGATTCTGTGCCCCTCCCTGGTGCTGGGA
			GCACCCTGCACTTCCCGGTCCACGCCCCACCCGCCATCCCAGCACCAGGGAGGGGCACAG[GA]ATCCTTTAAGAGG
			GGCGGGCGTGGCTGACCCAAGGAAGCCGGTGTGGGAACACCTGCCAC
84725 IS	[GA]		
84728 I		A	ACCCCGGGCGAGCAGCCAT
84728 P	G	A	ATGACGTGGCAGACGAGGCTGGATCTCAGGY
84728 P	C	A	CGCGCCGAGGCAGGCTGGATCTCAGGY
84728 T	G	A	CATCCCTGAGATCCAGCCTCTGGCTGCTCGCCCGGGGTGG
84728 T	C	A	CATCCCTGAGATCCAGCCTGTGGCTGCTCGCCCGGGGTGG
			GCTCCCTCCGCCCCGCGCCATCGCGCTCGGAGTGACGGGCCCACCCCGGGCGAGCAGCCA[GC]AGGCTGGATCTC
			AGGGATGCCAGCTCCCCAGCGGAAGCACAGGCGTGGAGGCTTCTCTCA
84728 IS	[GC]		
84742 I		A	CATCCTGCACCGCGACCTGAAGCTA
84742 P	C	A	ATGACGTGGCAGACCAGTGAGTGCCAGGAY
84742 P	T	A	CGCGCCGAGGTAGTGAGTGCCAGGAAGY
84742 T	C	A	TCCCCTTCCTGGCACTCACTGAGCTTCAGGTCGCGGTGCAGGATGCA
84742 T	T	A	TCCCCTTCCTGGCACTCACTAAGCTTCAGGTCGCGGTGCAGGATGCA
			CCTGGTCAGCGGCCTGCGCTACCTGCACCAGCGGTGCATCCTGCACCGCGACCTGAAGCT[CT]AGTGAGTGCCAGG
			AAGGGGAACTGTGGGCGGGGGCGTCGGGAGGTGGGCACGGATCCACC
84742 IS	[CT]		
84774 I		A	ACCACATATGGCAGAACGGGACAGAGATTAAAT
84774 P	A	A	CGCGCCGAGGAAGGCTAAATAGGTTTGCTTY
84774 P	G	A	ATGACGTGGCAGACGAGGCTAAATAGGTTTGCTY
84774 T	A	A	GGGTAAGCAAACCTATTTAGCCTTTTTAATCTCTGTCCCGTTCTGCCATATGTGGTCT
84774 T	G	A	GGGTAAGCAAACCTATTTAGCCTCTTTAATCTCTGTCCCGTTCTGCCATATGTGGTCT
			AAAAATATCAGTGCAAAGATTGTATTAGACCACATATGGCAGAACGGGACAGAGATTAAA[AG]AGGCTAAATAGGTTTG
			CTTACCCTTTTTGCCTTTGAGCGCATTGGCGTATCTTGAGAGTA
84774 IS	[AG]		
84783 I		S	TGTCTTCTCACAGAGTCTTGAAGCCAGAGCAGCT
84783 P	C	S	ATGACGTGGCAGACGCCAGGATGTCACGGY
84783 P	T	S	CGCGCCGAGGACCAGGATGTCACGGY
84783 T	C	S	GCTCCCGTGACATCCTGGCGCTGCTCTGGCTTCAAGACTCTGTGAGAAGACAGC
84783 T	T	S	GCTCCCGTGACATCCTGGTGCTGCTCTGGCTTCAAGACTCTGTGAGAAGACAGC
			GGGCGCTGTGGATGGAGAGGAGGAGAAGCAGCAGTGGGGCCAGCTCCCGTGACATCCTGG[CT]GCTGCTCTGGCTT
			CAAGACTCTGTGAGAAGACAGCAGTGCTTGGAGTGCTGGATTCTGGC
84783 IS	[CT]		
84787 I		S	CAGGGAGCTGGTTGATTGGGTCTCAACCCA
84787 P	A	S	CGCGCCGAGGTTGATGACTGACCATATCCTY
84787 P	G	S	ATGACGTGGCAGACCTGATGACTGACCATATCCY
84787 T	A	S	AATTAGGATATGGTCAGTCATCAAGGGTTGAGACCCAATCAACCAGCTCCCTGAC
84787 T	G	S	AATTAGGATATGGTCAGTCATCAGGGGTTGAGACCCAATCAACCAGCTCCCTGAC
			CACTGTCCGTGGTCTGAGCAGCCACAGGCTGTAAACAAATTAGGATATGGTCAGTCATCA[AG]GGGTTGAGACCCAAT
			CAACCAGCTCCCTGACCCCTTGTTTGCTATGCATTTTCAGTTGTG
84787 IS	[AG]		
84791 I		S	GTATACTAATATAGCTTTGTCCTAAAACTTGGAAGCCATACCAT
84791 P	T	S	CGCGCCGAGGAAAATCCTTGATTCAGATTCCTY
84791 P	G	S	ATGACGTGGCAGACCAAATCCTTGATTCAGATTCCY
84791 T	T	S	AGAAAGGAATCTGAATCAAGGATTTTTGGTATGGCTTCCAAGTTTTAGGACAAAGCTATATTAGTATACCA
84791 T	G	S	AGAAAGGAATCTGAATCAAGGATTTTGTGGTATGGCTTCCAAGTTTTAGGACAAAGCTATATTAGTATACCA
			AAGATTTTTTTTTTGTACCTGTTTCCTGTCTATTTTAGAAAGGAATCTGAATCAAGGATTT[TG]TGGTATGGCTTCCAAGT
84791 IS	[TG]		TTTAGGACAAAGCTATATTAGTATACCAATTTAGTAGCTTATT
84792 I		S	CTCCTGAGACTACACCTGCTTTTAATTTGGTGTCAGTAGGAAT
84792 P	G	S	ATGACGTGGCAGACCGATGGTATACACATTTTACAAAAY
84792 P	T	S	CGCGCCGAGGAGATGGTATACACATTTTACAAAAGY
84792 T	G	S	ATGACTTTTGTAAAATGTGTATACCATCGTTCCTACTGACACCAAATTAAAAGCAGGTGTAGTCTCAGGAGCT
84792 T	T	S	ATGACTTTTGTAAAATGTGTATACCATCTTTCCTACTGACACCAAATTAAAAGCAGGTGTAGTCTCAGGAGCT
			AACAATTGATAATTTTTTTCTTAACATTAAAAAATGACTTTTGTAAAATGTGTATACCATC[GT]TTCCTACTGACACCAAAT
84792 IS	[GT]		TAAAAGCAGGTGTAGTCTCAGGAGCTCTTTCTGTTCACAGGC
84806 I		S	CACAGCCTTGCAGGCCAGGCCTTA
84806 P	G	S	ATGACGTGGCAGACCTCTATTAACAATTACAAGCGCY
84806 P	A	S	CGCGCCGAGGTTCTATTAACAATTACAAGCGCY
84806 T	G	S	CCTCGCGCTTGTAATTGTTAATAGAGAAGGCCTGGCCTGCAAGGCTGTGTC
84806 T	A	S	CCTCGCGCTTGTAATTGTTAATAGAAAAGGCCTGGCCTGCAAGGCTGTGTC
			CCCCGTCCGCCCCACCCAGTTCTCAACTCTCTGCTCCTCGCGCTTGTAATTGTTAATAGA[GA]AAGGCCTGGCCTGCA
84806 IS	[GA]		AGGCTGTGTCGTAGGGTCCCGGCCAGGCTGAAAGGGAGGGGTGGG
84851 I		A	CATTCAGGCAGCTCCCCAACACCCTGA
84851 P	C	A	ATGACGTGGCAGACCACACAATGCCCAGACY
84851 P	T	A	CGCGCCGAGGTACACAATGCCCAGACCY
84851 T	C	A	AGTGGGTCTGGGCATTGTGTGCAGGGTGTTGGGGAGCTGCCTGAATGCT
84851 T	T	A	AGTGGGTCTGGGCATTGTGTACAGGGTGTTGGGGAGCTGCCTGAATGCT
			ACTGGCTCTGAGGGTTGAACTTGGTTCCTTTCAGCATTCAGGCAGCTCCCCAACACCCTG[CT]ACACAATGCCCAGAC
84851 IS	[CT]		CCACTGGACCAGACAGACAGAGCCCGCCTCCAACAAGGGCACCCA
84853 I		A	AGCAGTGGATGGGAAGTGGTAAACAGGCCT
84853 P	G	A	ATGACGTGGCAGACGGAGCCAGCAGTAGAY
84853 P	A	A	CGCGCCGAGGAGAGCCAGCAGTAGACY
84853 T	G	A	GCAGGTCTACTGCTGGCTCCGGCCTGTTTACCACTTCCCATCCACTGCTCT
84853 T	A	A	GCAGGTCTACTGCTGGCTCTGGCCTGTTTACCACTTCCCATCCACTGCTCT
			AAATTTGAGATGCAGGTAATCCCCACATTAGAGCAGTGGATGGGAAGTGGTAAACAGGCC[GA]GAGCCAGCAGTAGA
84853 IS	[GA]		CCTGCGGCCTTGGCTGAGTCCTGGCTAATAAATACCCTGGTGTCTG
84866 I		S	CTGATTCACCTCCCCTCCTCCCTACACT
84866 P	T	S	CGCGCCGAGGAGATCATTACAGGGGACCY
84866 P	C	S	ATGACGTGGCAGACGGATCATTACAGGGGACCY
84866 T	T	S	GAGAGGTCCCCTGTAATGATCTGTGTAGGGAGGAGGGGAGGTGAATCAGAA
84866 T	C	S	GAGAGGTCCCCTGTAATGATCCGTGTAGGGAGGAGGGGAGGTGAATCAGAA
			GAGACAATGACCTACGGTGAATGAAGCTCAACACCCAAAGAGAGGTCCCCTGTAATGATC[TC]GTGTAGGGAGGAGG
84866 IS	[TC]		GGAGGTGAATCAGAAAACAAATTCCACGCTCCTGGAAACCCCAGAG
84871 I		S	GGAAGGTGAATGGGTGGGGGGCTAATCTCA
84871 P	A	S	CGCGCCGAGGTTTGGTCAACATTTGCTTTCY
84871 P	G	S	ATGACGTGGCAGACCTTGGTCAACATTTGCTTTCY
84871 T	A	S	AATAGAAAGCAAATGTTGACCAAAGAGATTAGCCCCCCACCCATTCACCTTCCCC
84871 T	G	S	AATAGAAAGCAAATGTTGACCAAGGAGATTAGCCCCCCACCCATTCACCTTCCCC

FIGURE 129D

				ACAGCCGATCCAAGTTTATTTAACCACCTAAAATTCAAATAGAAAGCAAATGTTGACCAA[AG]GAGATTAGCCCCCCAC
84871	IS	[AG]		CCATTCACCTTCCCCCAGAGTTTGTTATGAAATTAGGTCATGAT
84874	I		S	GGAGAGAGGAGGACATGGGGCTGCTT
84874	P	C	S	ATGACGTGGCAGACGTTGTGAAGAAGGAATTTGTACY
84874	P	T	S	CGCGCCGAGGATTGTGAAGAAGGAATTTGTACY
84874	T	C	S	ACTTGTACAAATTCCTTCTTCACAACAGCAGCCCCATGTCCTCCTCTCTCCCA
84874	T	T	S	ACTTGTACAAATTCCTTCTTCACAATAGCAGCCCCATGTCCTCCTCTCTCCCA
				TTTATTAGAATATAAAAGTTACAGAAAATGGACTAACTTGTACAAATTCCTTCTTCACAA[CT]AGCAGCCCCATGTCCTC
84874	IS	[CT]		CTCTCTCCCATAGACACAGTTTCATAGTTTCTATTCACTCACA
84897	I		A	CACTCTCTCTCCCATATCTTCTGCTTCTTCCCTTACCCA
84897	P	C	A	ATGACGTGGCAGACCCAAGCTCCATACCCTY
84897	P	T	A	CGCGCCGAGGTCAAGCTCCATACCCTCY
84897	T	C	A	TTAGGAGGGTATGGAGCTTGGGGGTAAGGGAAGAAGCAGAAGATATGGGAGAGAGAGTGGG
84897	T	T	A	TTAGGAGGGTATGGAGCTTGAGGGTAAGGGAAGAAGCAGAAGATATGGGAGAGAGAGTGGG
				CTGATCCTCCTTTCCCTGTCCCCACTCTCTCTCCCATATCTTCTGCTTCTTCCCTTACCC[CT]CAAGCTCCATACCCTC
84897	IS	[CT]		CTAATGCCCACACCTCTTACCTTAGGAAAGGCATCCCAGTTGAG
84903	I		S	TGAAAACAAACTGGGTTTGTACAAGTGAGAAAGACTAGAT
84903	P	C	S	ATGACGTGGCAGACGAGAAAGATTTTAGTCTGTTTAGCY
84903	P	T	S	CGCGCCGAGGAAGAAAGATTTTAGTCTGTTTAGCY
84903	T	C	S	TTCTGCTAAACAGACTAAAATCTTTCTCTCTAGTCTTTCTCACTTGTACAAACCCAGTTTGTTTTCAAA
84903	T	T	S	TTCTGCTAAACAGACTAAAATCTTTCTTTCTAGTCTTTCTCACTTGTACAAACCCAGTTTGTTTTCAAA
				AATATTGATCCATGTGCACGCAGATAAAATGGCTTCTGCTAAACAGACTAAAATCTTTCT[CT]TCTAGTCTTTCTCACTT
84903	IS	[CT]		GTACAAACCCAGTTTGTTTTCAAAAAATCACAGTAGCAATGCA
84922	I		S	TGTGCCTCGACTCCCACCACACACACT
84922	P	C	S	ATGACGTGGCAGACGGCATGGGTAGGCAY
84922	P	T	S	CGCGCCGAGGAGCATGGGTAGGCATY
84922	T	C	S	GAAGATGCCTACCCATGCCGTGTGTGTGGTGGGAGTCGAGGCACATG
84922	T	T	S	GAAGATGCCTACCCATGCTGTGTGTGTGGTGGGAGTCGAGGCACATG
				AGGTGACAGGATGGCCCCAAAGAGAGTTGTGCAGCTGTCCCTGAAGATGCCTACCCATGC[CT]GTGTGTGTGGTGGG
84922	IS	[CT]		AGTCGAGGCACATGTGGACATTCACAGGTAAGAGCTGGGAGGCGCT
84930	I		S	CCCCACCCTGGCCTGGGGGT
84930	P	T	S	CGCGCCGAGGACCTCAACCTACCGAGY
84930	P	C	S	ATGACGTGGCAGACGCCTCAACCTACCGAY
84930	T	T	S	AGAGCTCGGTAGGTTGAGGTCCCCCAGGCCAGGGTGGGGCT
84930	T	C	S	AGAGCTCGGTAGGTTGAGGCCCCCCAGGCCAGGGTGGGGCT
				CCTGGGCCGGCTTTGGGATTCCATCTAGAGCTCCCTCGGCTAGAGCTCGGTAGGTTGAGG[TC]CCCCCAGGCCAGG
84930	IS	[TC]		GTGGGGCTGCCATACTAGCTTCTGCCCTGTCACCCCACTCCTATGTC
84942	I		A	CTTACCCTTGGTTTGCCTGAAGAAAGCTGCTGTTTTTAATTTTC
84942	P	T	A	CGCGCCGAGGTTTTCCTCCAAGCAAGCY
84942	P	A	A	ATGACGTGGCAGACATTTCCTCCAAGCAAGCY
84942	T	T	A	TTGGGCTTGCTTGGAGGAAAAAAAATTAAAAACAGCAGCTTTCTTCAGGCAAACCAAGGGTAAGTA
84942	T	A	A	TTGGGCTTGCTTGGAGGAAATAAAATTAAAAACAGCAGCTTTCTTCAGGCAAACCAAGGGTAAGTA
				TGGCTCAGGGATGTTTACTTACCCTTGGTTTGCCTGAAGAAAGCTGCTGTTTTTAATTTT[TA]TTTCCTCCAAGCAAGC
84942	IS	[TA]		CCAAAACTTCCATGAGCAAAAGAGTCCAAAGAGGCAAGAGGACA
84984	I		A	TGGGTTTTCAGGATGCCTGAGTACATGGATCCTCTAAT
84984	P	C	A	CGCGCCGAGGCACATATCCCTTCATTATCTCTAY
84984	P	G	A	ATGACGTGGCAGACGACATATCCCTTCATTATCTCTACY
84984	T	C	A	TTCAGTAGAGATAATGAAGGGATATGTGTTAGAGGATCCATGTACTCAGGCATCCTGAAAACCCAGG
84984	T	G	A	TTCAGTAGAGATAATGAAGGGATATGTCTTAGAGGATCCATGTACTCAGGCATCCTGAAAACCCAGG
				TCAGAGCCGTGGGATTTCAAACCTGGGTTTTCAGGATGCCTGAGTACATGGATCCTCTAA[CG]ACATATCCCTTCATT
84964	IS	[CG]		ATCTCTACTGAATGTAGCTGATGTTAGGGGAAGTTCTGTGCTGGA
84989	I		S	CGAGCTGATGGCTCACCTGATGTACATGCATGT
84989	P	G	S	ATGACGTGGCAGACCCATCTACAGCAGCATCY
84989	P	T	S	CGCGCCGAGGACATCTACAGCAGCATCY
84989	T	G	S	GGGGGATGCTGCTGTAGATGGCATGCATGTACATCAGGTGAGCCATCAGCTCGGC
84989	T	T	S	GGGGGATGCTGCTGTAGATGTCATGCATGTACATCAGGTGAGCCATCAGCTCGGC
				CCACAATTACCTAAGGTCCAACAAGAGACAGTCTCCAGGAGGGGGATGCTGCTGTAGATG[GT]CATGCATGTACATCA
84989	IS	[GT]		GGTGAGCCATCAGCTCGGCCAGCCACCACCAGCAAAGAAGGCGGC
85026	I		A	CCACAGGAATCCTACTGACGTGGCTGTGTTTACGA
85026	P	C	A	ATGACGTGGCAGACCGCCTCCTCCCCY
85026	P	T	A	CGCGCCGAGGTGCCTCCTCCCCAY
85026	T	C	A	GCTTTGGGGAGGAGGCGCGTAAACACAGCCACGTCAGTAGGATTCCTGTGGCC
85026	T	T	A	GCTTTGGGGAGGAGGCACGTAAACACAGCCACGTCAGTAGGATTCCTGTGGCC
				AGAACAGTGTGTTAGCTTGGAAAGGGCCACAGGAATCCTACTGACGTGGCTGTGTTTACG[CT]GCCTCCTCCCCAAA
85026	IS	[CT]		GCCCTCTCTGTTCTCACACATGGCCTGGTCTGTCCCAAAGGCCTCA
85046	I		A	TGGTAGGGTATATCCATGGATGAATGTTCATCACACCCAT
85046	P	G	A	ATGACGTGGCAGACGTCTAATTCATACCAGGTGGY
85046	P	A	A	CGCGCCGAGGATCTAATTCATACCAGGTGGY
85046	T	G	A	CCTGCCACCTGGTATGAATTAGACTGGGTGTGATGAACATTCATCCATGGATATACCCTACCATT
85046	T	A	A	CCTGCCACCTGGTATGAATTAGATTGGGTGTGATGAACATTCATCCATGGATATACCCTACCATT
				TGGTTATAAGGCAACGCAAAATGGTAGGGTATATCCATGGATGAATGTTCATCACACCCA[GA]TCTAATTCATACCAGG
85046	IS	[GA]		TGGCAGGCTCAGCAAACTGAACCACCACAGGTGTCAGAGATACT
85056	I		S	GCCGCCCGAACATACGACCTTCCCAGT
85056	P	G	S	ATGACGTGGCAGACCCCTCATGACCCCCY
85056	P	T	S	CGCGCCGAGGACCTCATGACCCCCY
85056	T	G	S	TGCTGGGGGTCATGAGGGCTGGGAAGGTCGTATGTTCGGGCGGCTG
85056	T	T	S	TGCTGGGGGTCATGAGGTCTGGGAAGGTCGTATGTTCGGGCGGCTG
				CCCCCGTCCTCACCATCCAATGGGGACACTGTGGAGCTCCAAGTGCTGGGGGTCATGAGG[GT]CTGGGAAGGTCGT
85056	IS	[GT]		ATGTTCGGGCGGCTGGTCCCTTCTCTGGCTGGGCCTCCAGCAGTGGC
85063	I		S	GCTGCGGAAAGAGATCCAGCCTGGCTA
85063	P	G	S	ATGACGTGGCAGACCCCTCCTTTCCCCGY
85063	P	A	S	CGCGCCGAGGTCCTCCTTTCCCCGY
85063	T	G	S	AGGGCGGGGAAAGGAGGGAGCCAGGCTGGATCTCTTTCCGCAGCTC
85063	T	A	S	AGGGCGGGGAAAGGAGGAAGCCAGGCTGGATCTCTTTCCGCAGCTC
				TGGGCAATACAGTTTTGTGCTCACTGGGTGAAGAGGCTGACTTAGGGCGGGGAAAGGAGG[GA]AGCCAGGCTGGAT
85063	IS	[GA]		CTCTTTCCGCAGCTCTCCTCACGTTCCCCTCTAGTCCCGGCGCGGCG
85074	I		S	AGAGACACCAACCCTGCCCCCCTTT
85074	P	G	S	CGCGCCGAGGCTACTGGTATTTGAAAAAAGAACTY
85074	P	C	S	ATGACGTGGCAGACGTACTGGTATTTGAAAAAAGAACTY
85074	T	G	S	GGAGAGTTCTTTTTTCAAATACCAGTAGAAGGGGGGCAGGGTTGGTGTCTCTGA
85074	T	C	S	GGAGAGTTCTTTTTTCAAATACCAGTACAAGGGGGGCAGGGTTGGTGTCTCTGA
				TTCCCAGGGATGGTGGAGGGAAGTGGATAGCAGGGAGAGTTCTTTTTTCAAATACCAGTA[GC]AAGGGGGGCAGGGT
85074	IS	[GC]		TGGTGTCTCTGAAGAGATGACAGACAACTTTGTTTTATAGAGTCTT
85086	I		S	AAAGTATATTAGCACATTTCCTCCTTTTTAATGCAAAGATCATAATCCAAATAA
85086	P	A	S	CGCGCCGAGGTGAGAGAACAAGTATAGGGAAY

FIGURE 129D

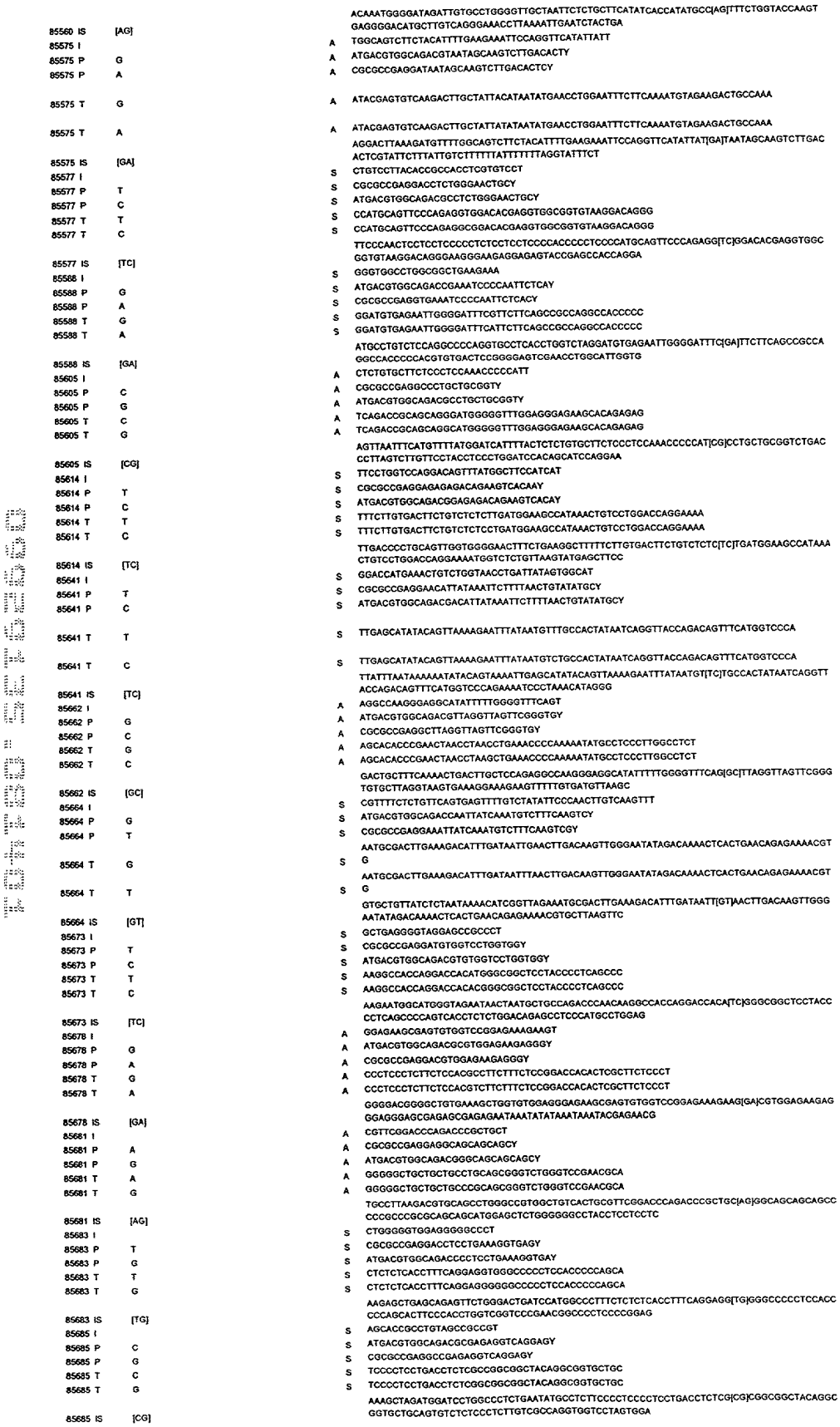
85086	P	G	S	ATGACGTGGCAGACCGAGAGAACAAGTATAGGGAY
85086	T	A	S	TATATTCCCTATACTTGTTCTCTCATATTTGGATTATGATCTTTGCATTAAAAAGGAGGAAATGTGCTAATATACTTTTA
85086	T	G	S	TATATTCCCTATACTTGTTCTCTCGTATTTGGATTATGATCTTTGCATTAAAAAGGAGGAAATGTGCTAATATACTTTTA
85086	IS	[AG]		CAGAAGTAGCAATAACTATTCTATAACCGTAAAATTTATATTCCCTATACTTGTTCTCT[AG]TATTTGGATTATGATCTT TGCATTAAAAAGGAGGAAATGTGCTAATATACTTTTATACTA
85091	I		S	CGCCAGGTGAAGGGAGACCTGGCA
85091	P	G	S	ATGACGTGGCAGACCTTCCTCAACTTCCAGAACY
85091	P	A	S	CGCGCCGAGGTTTCCTCAACTTCCAGAACY
85091	T	G	S	GGTTGTTCTGGAAGTTGAGGAAGGCCAGGTCTCCCTTCACCTGGCGGA
85091	T	A	S	GGTTGTTCTGGAAGTTGAGGAAAGCCAGGTCTCCCTTCACCTGGCGGA
85091	IS	[GA]		GAGAGAACCCGGGCCAGGCAAGCGGCGCACCTGCTGCAGGTTGTTCTGGAAGTTGAGGAA[GA]GCCAGGTCTCCCT TCACCTGGCGGATCACTTCCATGGTCAGTGCCTTTTCTTCATGGATG
85127	I		S	CAGTACTCCTCGCCCTAACCCGGCTT
85127	P	G	S	CGCGCCGAGGCGAACCTTCAGACAGACY
85127	P	C	S	ATGACGTGGCAGACGGAACCTTCAGACAGACY
85127	T	G	S	CGGGGTCTGTCTGAAGGTTCGAGCCGGGTTAGGGCGAGGAGTACTGCC
85127	T	C	S	CGGGGTCTGTCTGAAGGTTCCAGCCGGGTTAGGGCGAGGAGTACTGCC
85127	IS	[GC]		GGTTCCGCCGCGCCGGGCTGGGGAGCGGGGCTCCATCCGCCGGGGTCTGTCTGAAGGTTC[GC]AGCCGGGTTAGG GCGAGGAGTACTGCCCTGGAGTAGAGTCTGGGCTGAGGGTGTAGTTGA
85155	I		A	CATATTTGTGGTGGTCTCTGATCAGGCTTCCTCCTT
85155	P	A	A	CGCGCCGAGGATAAGTGGAGAACAGCACY
85155	P	G	A	ATGACGTGGCAGACGTAAGTGGAGAACAGCACY
85155	T	A	A	ACACGTGCTGTTCTCCACTTATAGGAGGAAGCCTGATCAGAGACCACCACAAATATGCC
85155	T	G	A	ACACGTGCTGTTCTCCACTTACAGGAGGAAGCCTGATCAGAGACCACCACAAATATGCC
85155	IS	[AG]		CCACTTGGGGCAGAAGAGGCCCTGGCATATTTGTGGTGGTCTCTGATCAGGCTTCCTCCT[AG]TAAGTGGAGAACAG CACGTGTAATTGGGCTCCACATGAAAATGTGACCTCTGGTTTGCAT
85220	I		S	CTTCTCTTTCTTGTCCCAAGTCATTCATTACTTAATTTTAGTCATGAAAT
85220	P	T	S	CGCGCCGAGGATGGGAGACCCCCAY
85220	P	C	S	ATGACGTGGCAGACGTGGGAGACCCCCY
85220	T	T	S	TCACTGGGGGTCTCCCATTTTCATGACTAAAATTAAGTAATGAATGACTTGGGACAAGAAAGAGAAGTG
85220	T	C	S	TCACTGGGGGTCTCCCACTTTCATGACTAAAATTAAGTAATGAATGACTTGGGACAAGAAAGAGAAGTG
85220	IS	[TC]		GAGAAACCGTCATTGCAGGACATGATTGAGGGAAAACCCCCATTCACTGGGGGTCTCCCA[TC]TTTCATGACTAAAAT TAAGTAATGAATGACTTGGGACAAGAAAGAGAAGTGGATTAAATA
85227	I		S	TGTGCAATTGGTTTAAATTTCCCCTGTGTGCTATGTCTCTC
85227	P	A	S	CGCGCCGAGGTGGGAGTCCAAGTCTGY
85227	P	T	S	ATGACGTGGCAGACAGGGAGTCCAAGTCTGY
85227	T	A	S	CCAGCAGACTTGGACTCCCAAGAGACATAGCACACAGGGGAAATTTAAACCAATTGCACAGT
85227	T	T	S	CCAGCAGACTTGGACTCCCTAGAGACATAGCACACAGGGGAAATTTAAACCAATTGCACAGT
85227	IS	[AT]		CTGATGGTGAAGGTGGAAGTATTCCCCTTCCTGTATCCTGACCAGCAGACTTGGACTCCC[AT]AGAGACATAGCACAC AGGGGAAATTTAAACCAATTGCACAGTCTTTATTTCTGTCTTTAT
85243	I		S	GGTAGCATAAGGGGCAGACTAAGGAATGACGT
85243	P	C	S	ATGACGTGGCAGACGCATGGGAGGTGGCY
85243	P	T	S	CGCGCCGAGGACATGGGAGGTGGCY
85243	T	C	S	GGCAGCCACCTCCCATGCCGTCATTCCTTAGTCTGCCCCTTATGCTACCAT
85243	T	T	S	GGCAGCCACCTCCCATGTCGTCATTCCTTAGTCTGCCCCTTATGCTACCAT
85243	IS	[CT]		ATTATCAAAAAACTAAGGCAGTTCATCAAAGCTTTTTATTTCTGGCAGCCACCTCCCATG[CT]CGTCATTCCTTAGTCTG CCCCTTATGCTACCATATGTTAAAGAGCGTGGTACTCCCCAAT
85261	I		A	GGCAAGTTTCCCGTGCAGTTAGAGAATGTTGACTCT
85261	P	A	A	CGCGCCGAGGATTTGTGGAGCTGGGAY
85261	P	G	A	ATGACGTGGCAGACGTTTGTGGAGCTGGGY
85261	T	A	A	CCTGTCCCAGCTCCACAAATGAGTCAACATTCTCTAACTGCACGGGAAACTTGCCCT
85261	T	G	A	CCTGTCCCAGCTCCACAAACGAGTCAACATTCTCTAACTGCACGGGAAACTTGCCCT
85261	IS	[AG]		GAGGATGGTCTACGATATGGAGAAGGGCAAGTTTCCCGTGCAGTTAGAGAATGTTGACTC[AG]TTTGTGGAGCTGGG ACAGGTATGTGGCATGTCCCCCAGCCCCTTCCTTTTTAATTAAATC
85284	I		S	ACGGAATGAAATGGATGATGACTTTTCACTTTTAATTCTATGAAGTTA
85284	P	G	S	ATGACGTGGCAGACCGATTTTTGAAATCTATACCAAGTY
85284	P	A	S	CGCGCCGAGGTGATTTTTGAAATCTATACCAAGTATTY
85284	T	G	S	ATATAATACTTGGTATAGATTTCAAAAATCGAACTTCATAGAATTAAAAGTGAAAAGTCATCATCCATTTCATTCCGTTT
85284	T	A	S	ATATAATACTTGGTATAGATTTCAAAAATCAAACTTCATAGAATTAAAAGTGAAAAGTCATCATCCATTTCATTCCGTTT
85284	IS	[GA]		GGTCATTATTTTTAAACTTTTCAAATTAGAAATATAATACTTGGTATAGATTTCAAAAATC[GA]AACTTCATAGAATTAAAA GTGAAAAGTCATCATCCATTTCATTCCGTTTCTTGATTTTTT
85285	I		A	GGGAGCACTTATTTCAAGGACATTACCACATAGAATTTGAATGCATCTATTA
85285	P	T	A	CGCGCCGAGGTAGTGGAAAAATTTTTGGCAAY
85285	P	C	A	ATGACGTGGCAGACCAGTGGAAAAATTTTTGGCAY
85285	T	T	A	TTTTTTGCCAAAAATTTTTCCACTAAATAGATGCATTCAAATTCTATGTGGTAATGTCCTTGAAATAAGTGCTCCCGT
85285	T	C	A	TTTTTTGCCAAAAATTTTTCCACTGAATAGATGCATTCAAATTCTATGTGGTAATGTCCTTGAAATAAGTGCTCCCGT
85285	IS	[TC]		GAGCCTTACGGGAGCACTTATTTCAAGGACATTACCACATAGAATTTGAATGCATCTATT[TC]AGTGGAAAAATTTTTG GCAAAAAATTTTTAAAAATTATTAGAATAAAAGAAGAAATATTT
85288	I		S	CATGGGAAGTGGCATCCTTGGCTTAGCTTATGTTC
85288	P	T	S	CGCGCCGAGGATGGCTAATACCGGTGTY
85288	P	A	S	ATGACGTGGCAGACTTGGCTAATACCGGTGTY
85288	T	T	S	AAAGACACCGGTATTAGCCATAACATAAGCTAAGCCAAGGATGCCACTTCCCATGAT
85288	T	A	S	AAAGACACCGGTATTAGCCAAAACATAAGCTAAGCCAAGGATGCCACTTCCCATGAT
85288	IS	[TA]		AAAAAATTTGATGCTAAAATATGAAGACTCACCTAAATCCAAAGACACCGGTATTAGCCA[TA]AACATAAGCTAAGCCAA GGATGCCACTTCCCATGATGGCATTCATCAAATTAAACACTGA
85341	I		S	TGTGGGCTGGAAACTCCATAACAGGCACTTGC
85341	P	A	S	CGCGCCGAGGTGCCTCCTCCGAGGY
85341	P	T	S	ATGACGTGGCAGACAGCCTCCTCCGAGGY
85341	T	A	S	CAGACCTCGGAGGAGGCACAAGTGCCTGTTATGGAGTTTCCAGCCCACAGC
85341	T	T	S	CAGACCTCGGAGGAGGCTCAAGTGCCTGTTATGGAGTTTCCAGCCCACAGC
85341	IS	[AT]		TCACTGCACAGTTCCCTGGCTGTGAAATGAGGTGGGTTTGGTGCAGACCTCGGAGGAGGC[AT]CAAGTGCCTGTTAT GGAGTTTCCAGCCCACAGCGCAGGGCCTGGCTGGTGGGAAAGAGCG
85358	I		S	CGAGGGTCCTGGCGATGGAGCCT
85358	P	C	S	ATGACGTGGCAGACGTAGCTTTCATCTTGCTGAY
85358	P	T	S	CGCGCCGAGGATAGCTTTCATCTTGCTGATY
85358	T	C	S	AGGGATCAGCAAGATGAAAGCTACGGCTCCATCGCCAGGACCCTCGGG
85358	T	T	S	AGGGATCAGCAAGATGAAAGCTATGGCTCCATCGCCAGGACCCTCGGG
85358	IS	[CT]		AGCTTAAGCTGAGGGTGATGCTGGGGGCTGTGTTGACAGGGATCAGCAAGATGAAAGCTA[CT]GGCTCCATCGCCAG GACCCTCGGGGGTGTCTTGTTTGGAAGCATCCCTGCTGGCCTCTGG
85362	I		A	GCTCCCTGAGAGCCGGAGCCTGGT
85362	P	G	A	ATGACGTGGCAGACGAAAGAAGCAGAGAAGCTAGY

FIGURE 129D

85362 P	C	A	CGCGCCGAGGCAAAGAAGCAGAGAAGCTAY
85362 T	G	A	GGAACTAGCTTCTCTGCTTCTTTCCCAGGCTCCGGCTCTCAGGGAGCCC
85362 T	C	A	GGAACTAGCTTCTCTGCTTCTTTGCCAGGCTCCGGCTCTCAGGGAGCCC
			AGCCCAAGCCCCACAGGGCCTGCCCCACTGACGGGGGGCTCCCTGAGAGCCGGAGCCTGG[GC]AAAGAAGCAGAG
			AAGCTAGTTCCCGCAGGCTGGCTCTTGGCACCTTCTAGACCCAGGCAG
85362 IS	[GC]		
85376 I		A	CTGACACAGGCTGTGCGCCAGTCTCT
85376 P	G	A	ATGACGTGGCAGACGGTTCCATCAGCTGTTCY
85376 P	A	A	CGCGCCGAGGAGTTCCATCAGCTGTTCTY
85376 T	G	A	CCACAGAACAGCTGATGGAACCGAGACTGGCGCACAGCCTGTGTCAGGT
85376 T	A	A	CCACAGAACAGCTGATGGAACTGAGACTGGCGCACAGCCTGTGTCAGGT
			TCTTGGGGTGGGGAGTGTGTGGGAGAAAAAAACACCTGACACAGGCTGTGCGCCAGTCTC[GA]GTTCCATCAGCTGT
			TCTGTGGCCTTGGGCAGAACATCTGAGTCAGCGCTGGGTTTCTCTT
85376 IS	[GA]		
85380 I		S	TGAGCCGAAGGAAGAAGCAGCAGCAAATACACT
85380 P	C	S	ATGACGTGGCAGACGAGATGGGGAACAGCCY
85380 P	T	S	CGCGCCGAGGAAGATGGGGAACAGCCY
85380 T	C	S	TTGGGGCTGTTCCCCATCTCGTGTATTTGCTGCTGCTTCTTCCTTCGGCTCATT
85380 T	T	S	TTGGGGCTGTTCCCCATCTTGTGTATTTGCTGCTGCTTCTTCCTTCGGCTCATT
			GCCGCCTGGGGATCTAGAGAGCACCCAGCCCAGCCTGCAGTTTGGGGCTGTTCCCCATCT[CT]GTGTATTTGCTGCT
			GCTTCTTCCTTCGGCTCATTTTGACCCTGTCTGCAGCTGTGAAGTT
85380 IS	[CT]		
85387 I		S	GATGGTGCGCTTGGTCTTGATGGTGGCT
85387 P	C	S	ATGACGTGGCAGACGATGGCCGCGTTGY
85387 P	T	S	CGCGCCGAGGAATGGCCGCGTTGY
85387 T	C	S	ATGTCAACGCGGCCATCGCCACCATCAAGACCAAGCGCACCATCCA
85387 T	T	S	ATGTCAACGCGGCCATTGCCACCATCAAGACCAAGCGCACCATCCA
			CATGGCCTGCTGCATGTTGTACAGGGGGGATGTGGTCCCGAAAGATGTCAACGCGGCCAT[CT]GCCACCATCAAGAC
			CAAGCGCACCATCCAGTTTGTAGATTGGTGCCCAACTGGATTTAAG
85387 IS	[CT]		
85420 I		A	CGTGGCAACTAAACAGTCTTGCCTTCCTGCACT
85420 P	G	A	ATGACGTGGCAGACGTGGACATTTTTCTTCATGCY
85420 P	A	A	CGCGCCGAGGATGGACATTTTTCTTCATGCY
85420 T	G	A	ATATGCATGAAGAAAAATGTCCACGTGCAGGAAGGCAAGACTGTTTAGTTGCCACGGA
85420 T	A	A	ATATGCATGAAGAAAAATGTCCATGTGCAGGAAGGCAAGACTGTTTAGTTGCCACGGA
			TGTTTCAGCAAACGGCGATGACCACTTCCGTGGCAACTAAACAGTCTTGCCTTCCTGCAC[GA]TGGACATTTTTCTTCA
			TGCATATTTCTCTTGCAAATGGTTCTATTGTTTGTATAACAGTA
85420 IS	[GA]		
85448 I		A	CGGCTCAGCAGCAGAGGTGTCTGCAAA
85448 P	T	A	CGCGCCGAGGTTACACCCTCTAATCCCCY
85448 P	C	A	ATGACGTGGCAGACCTACACCCTCTAATCCCCY
85448 T	T	A	AGTAGGGGATTAGAGGGTGTAATTGCAGACACCTCTGCTGCTGAGCCGGA
85448 T	C	A	AGTAGGGGATTAGAGGGTGTAGTTGCAGACACCTCTGCTGCTGAGCCGGA
			GTTGTGGCCTGCCCGCCCCGAGGCCAGGTGAATCCGGCTCAGCAGCAGAGGTGTCTGCAA[TC]TACACCCTCTAATC
			CCCTACTGTCAGATATGACCCTTTCCGCACATACCTGAGGGCCCTC
85448 IS	[TC]		
85457 I		S	TGCTGTGCTTTGAAGAACAGAACACATTCTAAATTGCTTGAGATTTTT
85457 P	C	S	ATGACGTGGCAGACGGAAATCACTGTCTTTTGCY
85457 P	T	S	CGCGCCGAGGAGAAATCACTGTCTTTTGCTY
85457 T	C	S	AAGAAGCAAAAGACAGTGATTTCCAAAATCTCAAGCAATTTAGAATGTGTTCTGTTCTTCAAAGCACAGCACA
85457 T	T	S	AAGAAGCAAAAGACAGTGATTTCTAAAATCTCAAGCAATTTAGAATGTGTTCTGTTCTTCAAAGCACAGCACA
			CATAAAAATCTGTACTGTCATAGTGACATCTAGGGCAAAGAAGCAAAAGACAGTGATTTC[CT]AAAATCTCAAGCAATTT
			AGAATGTGTTCTGTTCTTCAAAGCACAGCACATAACTGCTTCA
85457 IS	[CT]		
85474 I		S	CGCGCCTTGTGCTCCCCTATCCCT
85474 P	C	S	ATGACGTGGCAGACGCAGATACGCAGGCTY
85474 P	T	S	CGCGCCGAGGACAGATACGCAGGCTTY
85474 T	C	S	CCAGAAGCCTGCGTATCTGCGGGATAGGGGAGCACAAGGCGCGCA
85474 T	T	S	CCAGAAGCCTGCGTATCTGTGGGATAGGGGAGCACAAGGCGCGCA
			GTCTCCTCTTCTTTCTTGCCTCCGGCGTCCACCCAGGGTCTCCAGAAGCCTGCGTATCTG[CT]GGGATAGGGGAGCA
			CAAGGCGCGCAGAGGAGACGTGAGCCCAGACCCGGGAGAATCCACC
85474 IS	[CT]		
85491 I		A	TGGTAATACCTAAAAAGAGGTAGAGAGACTCTATGTTCACAAAATATAGTT
85491 P	A	A	CGCGCCGAGGAATTTCATTTTTACCTTTCTTCAGTY
85491 P	C	A	ATGACGTGGCAGACCATTTCATTTTTACCTTTCTTCAGY
			GTCCACTGAAGAAAGGTAAAAATGAAATTACTATATTTTGTGAACATAGAGTCTCTCTACCTCTTTTTAGGTATTACCAC
85491 T	A	A	A
			GTCCACTGAAGAAAGGTAAAAATGAAATGACTATATTTTGTGAACATAGAGTCTCTCTACCTCTTTTTAGGTATTACCAC
85491 T	C	A	A
			TATGTCTATGTGGTAATACCTAAAAAGAGGTAGAGAGACTCTATGTTCACAAAATATAGT[AC]ATTTCATTTTTACCTTT
			CTTCAGTGGACTGAATTGTATGGAAGGAAATTGATCAGATCTG
85491 IS	[AC]		
85493 I		S	TGGGAAGTGGGATTGAGGGGGACACAGATAT
85493 P	C	S	ATGACGTGGCAGACGGGCTTCATCAAGAAGTTATY
85493 P	T	S	CGCGCCGAGGAGGCTTCATCAAGAAGTTATAAY
85493 T	C	S	GATTTTATAACTTCTTGATGAAGCCCTATCTGTGTCCCCCTCAATCCCACTTCCCACT
85493 T	T	S	GATTTTATAACTTCTTGATGAAGCCTTATCTGTGTCCCCCTCAATCCCACTTCCCACT
			CTGTGCCCCGTTTGCTATAAAGCGTTTTGTGTTTTGATTTTATAACTTCTTGATGAAGCC[CT]TATCTGTGTCCCCCTC
			AATCCCACTTCCCACTGGGCAATCTCGTTTTATTAAAAAATTAT
85493 IS	[CT]		
85525 I		A	GGCACTCCCGGCTTTCTCTGCATTCACTTAA
85525 P	T	A	CGCGCCGAGGTTAACTCCGGTAGACATCAY
85525 P	C	A	ATGACGTGGCAGACCTAACTCCGGTAGACATCAY
85525 T	T	A	CCCATGATGTCTACCGGAGTTAATAAGTGAATGCAGAGAAAGCCGGGAGTGCCCA
85525 T	C	A	CCCATGATGTCTACCGGAGTTAGTAAGTGAATGCAGAGAAAGCCGGGAGTGCCCA
			AGAGGCTGGGGGCCGGGGCCCAAATGACTGGGCACTCCCGGCTTTCTCTGCATTCACTTA[TC]TAACTCCGGTAGAC
			ATCATGGGAAAGCAGGAATGTGGCCAGTTCACTCATAGATATAAAT
85525 IS	[TC]		
85549 I		A	GGTGAGGAGGAGGGCCTCTTTGTAGAATGAATTGATT
85549 P	G	A	ATGACGTGGCAGACGGCAATGTCTTCCCTCY
85549 P	A	A	CGCGCCGAGGAGCAATGTCTTCCCTCTY
85549 T	G	A	TGCAAGAGGGAAGACATTGCCATCAATTCATTCTACAAAGAGGCCCTCCTCCTCACCAA
85549 T	A	A	TGCAAGAGGGAAGACATTGCTATCAATTCATTCTACAAAGAGGCCCTCCTCCTCACCAA
			GAGATTAGTTGGAGAAAAGAGTTTGGTGAGGAGGAGGGCCTCTTTGTAGAATGAATTGAT[GA]GCAATGTCTTCCCTC
			TTGCAGGTTAGCCACTGGTCTGGATGGAATGAGGATTGAAAACAA
85549 IS	[GA]		
85553 I		A	CCGGAGAAAGCGAGCAGTTTATGTTGGAGCTTGT
85553 P	A	A	CGCGCCGAGGAAGTCAGGATAACCAGTTTTGY
85553 P	G	A	ATGACGTGGCAGACGAGTCAGGATAACCAGTTTTY
85553 T	A	A	AAGGCAAAACTGGTTATCCTGACTTCAAGCTCCAACATAAACTGCTCGCTTTCTCCGGGA
85553 T	G	A	AAGGCAAAACTGGTTATCCTGACTCCAAGCTCCAACATAAACTGCTCGCTTTCTCCGGGA
			TCAAGTGTATGTGGCGGGGCAAGTTTCCCGGAGAAAGCGAGCAGTTTATGTTGGAGCTTG[AG]AGTCAGGATAACCA
			GTTTTGCCTTTTTTCTGTGAACCAGCTCCAAAACAATGCTTTACTT
85553 IS	[AG]		
85560 I		A	TGGGGTTGCTAATTCTCTGCTTCATATCACCATATGCCT
85560 P	A	A	CGCGCCGAGGATTTCTGGTACCAAGTGAGY
85560 P	G	A	ATGACGTGGCAGACGTTTCTGGTACCAAGTGAGY
85560 T	A	A	TCCCCTCACTTGGTACCAGAAATGGCATATGGTGATATGAAGCAGAGAATTAGCAACCCCAGG
85560 T	G	A	TCCCCTCACTTGGTACCAGAAACGGCATATGGTGATATGAAGCAGAGAATTAGCAACCCCAGG

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FIGURE 129D



SUBSTITUTE SHEET (RULE 26)

FIGURE 129D

85692 I		S	ACACCTTCCCCACCGCACATACCAGGA		
85692 P	A	S	CGCGCCGAGGTTTCCAGGGTTTGCCY		
85692 P	G	S	ATGACGTGGCAGACCTTCCAGGGTTTGCCY		
85692 T	A	S	GCTGGGCAAACCCTGGAAACCTGGTATGTGCGGTGGGGAAGGTGTGG		
85692 T	G	S	GCTGGGCAAACCCTGGAAGCCTGGTATGTGCGGTGGGGAAGGTGTGG		
			CATTGACCAGCCTCTTCCACCTGGTGTTACTGTGACCTCCTGGCTGGGCAAACCCTGGAA[AG]CCTGGTATGTGCGG		
85692 IS	[AG]		TGGGGAAGGTGTGGCACAGCCTCCAGGCCTCAGCACCTTAATGGTG		
85703 I		S	GCAGCTTCTGCTTGGCCATGGCCAGA		
85703 P	G	S	ATGACGTGGCAGACCGAATAGTACATGCCAAAGTY		
85703 P	A	S	CGCGCCGAGGTGAATAGTACATGCCAAAGTTY		
85703 T	G	S	CAACAACTTTGGCATGTACTATTCGCTGGCCATGGCCAAGCAGAAGCTGCCC		
85703 T	A	S	CAACAACTTTGGCATGTACTATTCACTGGCCATGGCCAAGCAGAAGCTGCCC		
			GGTGCTGACCATCGCCATGCCTGTGCCCGTCATTGTCAACAACTTTGGCATGTACTATTC[GA]CTGGCCATGGCCAAG		
85703 IS	[GA]		CAGAAGCTGCCCAAGAAGAAGAACAAACACATCCCCCGGCCCCCG		KCNC3
85722 I		A	GTGGGTGGGGGGGTGGTGATTTTTTTTGTCA		
85722 P	C	A	ATGACGTGGCAGACCCTTCACACTTTAAAAGATCAATY		
85722 P	T	A	CGCGCCGAGGTCTTCACACTTTAAAAGATCAATCY		
85722 T	C	A	GATTGATTGATCTTTTAAAGTGTGAAGGGACAAAAAAAATCACCACCCCCCCCACCCACAG		
85722 T	T	A	GATTGATTGATCTTTTAAAGTGTGAAGAGACAAAAAAAATCACCACCCCCCCACCCACAG		
			CATAGGAATTGTGTGTGTGTGATTGTGTCTGTGGGTGGGGGGGGTGGTGATTTTTTTTGTC[CT]CTTCACACTTTAAAA		
85722 IS	[CT]		GATCAATCAATCGAATCCAATCAAACCTGATTTCCAAATTACTGG		
85725 I		S	GAGGCTGCTGGGGGCTTGGTGAT		
85725 P	C	S	ATGACGTGGCAGACGTGAGAACGTCAGGACAY		
85725 P	T	S	CGCGCCGAGGATGAGAACGTCAGGACAY		
85725 T	C	S	TTCATGTCCTGACGTTCTCACTCACCAAGCCCCCAGCAGCCTCGC		
85725 T	T	S	TTCATGTCCTGACGTTCTCATTCACCAAGCCCCCAGCAGCCTCGC		
			CTGAGCTTGCAGTGGTGTGTCAGCACGAAGACAAAGGTCATTCATGTCCTGACGTTCTCA[CT]TCACCAAGCCCCCAG		
85725 IS	[CT]		CAGCCTCGCTCCATCCTCACCTGGGATCCCATCAGGCCGAGGGCA		
85733 I		A	CCCGAGGGCTCAGCATCCCTCCAT		
85733 P	G	A	ATGACGTGGCAGACGAAAGACTGATCTACATGTTCAY		
85733 P	A	A	CGCGCCGAGGAAAAGACTGATCTACATGTTCAY		
85733 T	G	A	CAGGTGAACATGTAGATCAGTCTTTCTGGAGGGATGCTGAGCCCTCGGGCC		
85733 T	A	A	CAGGTGAACATGTAGATCAGTCTTTTTGGAGGGATGCTGAGCCCTCGGGCC		
			AGCCCTGAGTGAGGCAGCCGGGTGGCACCGCTGTGGGCCCGAGGGCTCAGCATCCCTCCA[GA]AAAGACTGATCTA		
85733 IS	[GA]		CATGTTCACCTGGGCCATGAAGTGTGACTTCTCCTGAAGAGAGCTGG		
85736 I		S	CCTGGTATTTGATGTTAATATTGTTTGCTGAAACTTGAACTTCTGA		
85736 P	G	S	ATGACGTGGCAGACCTGACGTAGAGGTTTTCTCY		
85736 P	A	S	CGCGCCGAGGTTGACGTAGAGGTTTTCTCY		
85736 T	G	S	CCTTGAGAAAACCTCTACGTCAGCAGAAGTTCAAGTTTCAGCAAACAATATTAACATCAAATACCAGGTA		
85736 T	A	S	CCTTGAGAAAACCTCTACGTCAACAGAAGTTCAAGTTTCAGCAAACAATATTAACATCAAATACCAGGTA		
			CTTAATATATTTACTTAAAGAGTCAAAGGCTTGAGTGTCCTTGAGAAAACCTCTACGTCA[GA]CAGAAGTTCAAGTTTCA		
85736 IS	[GA]		GCAAACAATATTAACATCAAATACCAGGTAGCTATAGGTCGCC		
89359 I		S	CTCACCAAAGGGGCCCCACCCTGA		
89359 P	A	S	CGCGCCGAGGTGACTTGAACAGACCATTACY		
89359 P	G	S	ATGACGTGGCAGACCGACTTGAACAGACCATTAY		
89359 T	A	S	GCCTGTAATGGTCTGTTCAAGTCACAGGGTGGGGCCCCTTTGGTGAGTC		
89359 T	G	S	GCCTGTAATGGTCTGTTCAAGTCGCAGGGTGGGGCCCCTTTGGTGAGTC		
			CTGATGGAGGGTCCCACTTACCCAAGCAGGTGACCATGCCTGTAATGGTCTGTTCAAGTC[AG]CAGGGTGGGGCCCC		
89359 IS	[AG]		TTTGGTGAGTCTTCTAAAGGCCTCAGGATCCCTGAGTGTGAGCAGC		
89442 I		S	CCACCCAAATTAGAACAAGTTACAGAAAAAGAAACTCTTATCTTCAATAACT		
89442 P	C	S	ATGACGTGGCAGACGTAACACCTAAACACCCTGY		
89442 P	T	S	CGCGCCGAGGATAACACCTAAACACCCTGY		
89442 T	C	S	GTTTCAGGGTGTTTAGGTGTTACGTTATTGAAGATAAGAGTTTCTTTTTCTGTAACTTGTTCTAATTTGGGTGGGT		
89442 T	T	S	GTTTCAGGGTGTTTAGGTGTTATGTTATTGAAGATAAGAGTTTCTTTTTCTGTAACTTGTTCTAATTTGGGTGGGT		
			TTTTCATAGCCCTTGGCAACTTGCTTCTGGGATATTCAGTTTCAGGGTGTTTAGGTGTTA[CT]GTTATTGAAGATAAGA		
89442 IS	[CT]		GTTTCTTTTTCTGTAACTTGTTCTAATTTGGGTGGGTAATAAGA		
89445 I		A	CGATATAGTCAAGGAATTTGCCAAGTATGATGTGGATCCCCT		
89445 P	A	A	CGCGCCGAGGAGAAGTGGATCAAACAGTACY		
89445 P	G	A	ATGACGTGGCAGACGGAAGTGGATCAAACAGTACY		
89445 T	A	A	CCGTGTACTGTTTGATCCACTTCTGGGGATCCACATCATACTTGGCAAATTCCTTGACTATATCGGG		
89445 T	G	A	CCGTGTACTGTTTGATCCACTTCCGGGGATCCACATCATACTTGGCAAATTCCTTGACTATATCGGG		
			AATACTGTTACATTTGCCCCGATATAGTCAAGGAATTTGCCAAGTATGATGTGGATCCCC[AG]GAAGTGGATCAAACAG		
89445 IS	[AG]		TACACGGGTATCAATGCGATCAACCAGAAGAAGTTTGTTATAGA		ARP3BETA
89466 I		S	AGCATAAGCTGAGATCTGCGGGCAAAGAACAAACT		
89466 P	C	S	ATGACGTGGCAGACGTTGAGTCATGATGCGAAY		
89466 P	T	S	CGCGCCGAGGATTGAGTCATGATGCGAAGY		
89466 T	C	S	TAAGCTTCGCATCATGACTCAACGTTTGTTCTTTGCCCGCAGATCTCAGCTTATGCTCT		
89466 T	T	S	TAAGCTTCGCATCATGACTCAATGTTTGTTCTTTGCCCGCAGATCTCAGCTTATGCTCT		
			AAACAGCTGTTTCTTGATGCACATCTTCACCTCTTCTTTAAGCTTCGCATCATGACTCAA[CT]GTTTGTTCTTTGCCCGC		
89466 IS	[CT]		AGATCTCAGCTTATGCTCTGCCTCTATTCCATGCTCAGTTTGC		
89468 I		A	GGCCCTGGAAGCCAATGCGCATGC		
89468 P	T	A	CGCGCCGAGGTGGCAGTCAACCGGY		
89468 P	A	A	ATGACGTGGCAGACAGGCAGTCAACCGGY		
89468 T	T	A	GTAACCGGTTGACTGCCACATGCGCATTGGCTTCCAGGGCCGG		
89468 T	A	A	GTAACCGGTTGACTGCCTCATGCGCATTGGCTTCCAGGGCCGG		
			TCCCAAAAGTGAACTGGCACAAAAAGGTGGGACTTCCGGCCCTGGAAGCCAATGCGCATG[TA]GGCAGTCAACCGGT		
89468 IS	[TA]		TACGCAATACTTCCTGTCGCGTGATCCTGAGGACCAATGAAAATGC		
89505 I		A	GGCCTTGATGAAGCCAGTGCTTTTTGGGAAAAAA		
89505 P	C	A	ATGACGTGGCAGACCGGAGCAAGGCAACY		
89505 P	T	A	CGCGCCGAGGTGGAGCAAGGCAACGY		
89505 T	C	A	CGTGCGTTGCCTTGCTCCGTTTTTCCCAAAAAGCACTGGCTTCATCAAGGCCAC		
89505 T	T	A	CGTGCGTTGCCTTGCTCCATTTTTCCCAAAAAGCACTGGCTTCATCAAGGCCAC		
			TCCCAGTGCACTCAGGAGATCGTCGGTGGCCTTGATGAAGCCAGTGCTTTTTGGGAAAAA[CT]GGAGCAAGGCAACG		
89505 IS	[CT]		CACGACAGAAGCGGTGCACCAAGGAGTAAAGATTCAGTTCCATGGG		
89506 I		A	CAGGTGGGAGTGAGGACGCAGGGTCT		
89506 P	G	A	ATGACGTGGCAGACGGCACTCGAGTCGAY		
89506 P	A	A	CGCGCCGAGGAGCACTCGAGTCGACY		
89506 T	G	A	AGCAGTCGACTCGAGTGCCGACCCTGCGTCCTCACTCCCACCTGTT		
89506 T	A	A	AGCAGTCGACTCGAGTGCTGACCCTGCGTCCTCACTCCCACCTGTT		
			GCTTCCTTCCTAGCTGACTTGACTCCCAGCAGTAACAGGTGGGAGTGAGGACGCAGGGTC[GA]GCACTCGAGTCGAC		
89506 IS	[GA]		TGCTCTGGCTCCAGGCGTATTTTCTGAAACTGGACTCTGCCAGCCC		
89593 I		A	CACAGAAGATGTTTATTTAGAACTTAAGTTGATTAAAAAATAAAAACAACACAGAAAACTT		
89593 P	G	A	ATGACGTGGCAGACGAGAATACTATCAGCCTAAACAY		

FIGURE 129D

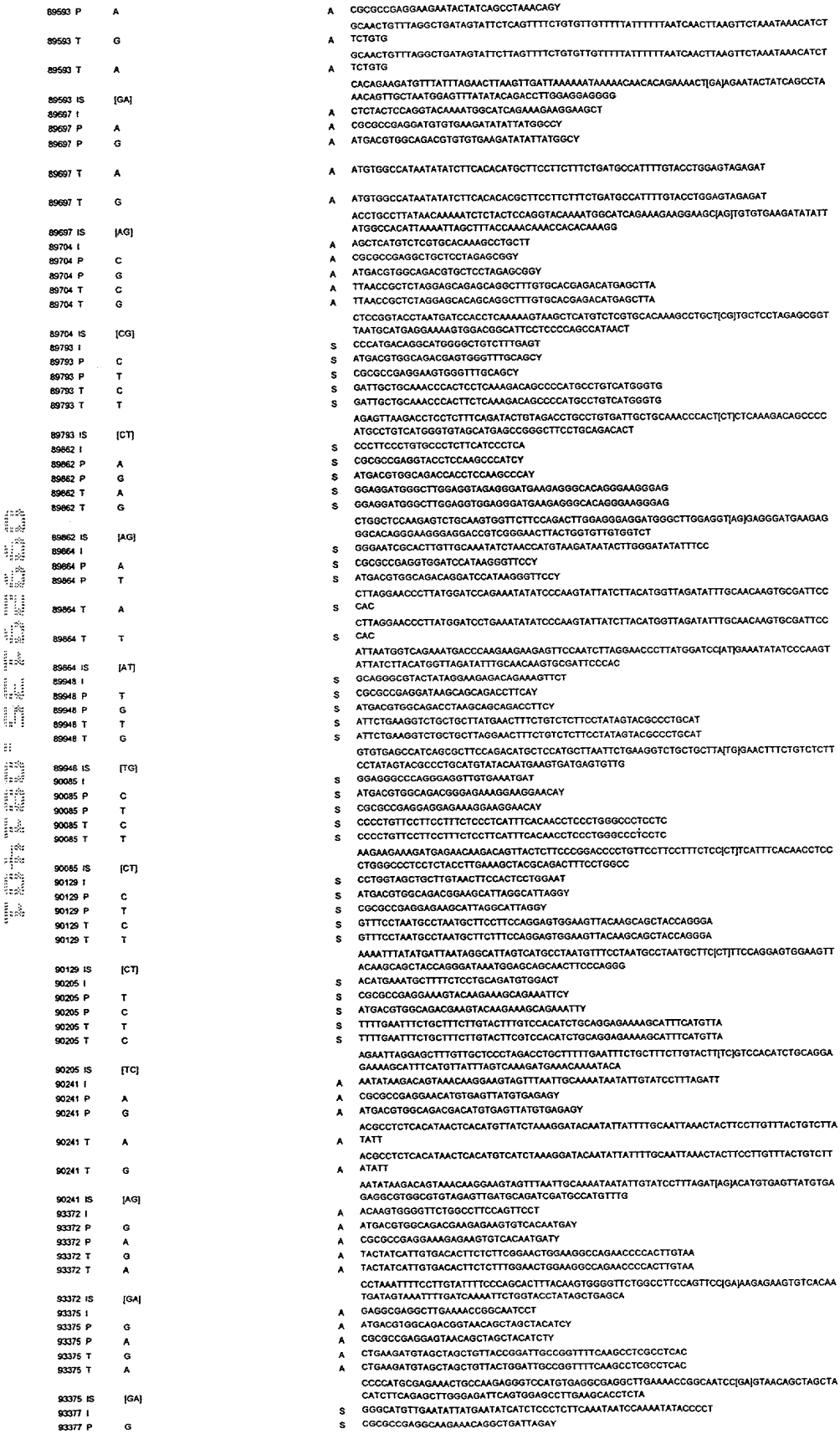

89593 P A A CGCGCCGAGGAAGAATACTATCAGCCTAAACAGY
GCAACTGTTTAGGCTGATAGTATTCTCAGTTTTCTGTGTTGTTTTTTATTTTTTAATCAACTTAAGTTCTAAATAAACATCT
89593 T G A TCTGTG
GCAACTGTTTAGGCTGATAGTATTCTTAGTTTTCTGTGTTGTTTTTTATTTTTTAATCAACTTAAGTTCTAAATAAACATCT
89593 T A A TCTGTG
CACAGAAGATGTTTATTTAGAACTTAAGTTGATTAAAAAATAAAAACAACACAGAAAACT[GA]AGAATACTATCAGCCTA
89593 IS [GA] AACAGTTGCTAATGGAGTTTATATACAGACCTTGGAGGAGGGG
89697 I A CTCTACTCCAGGTACAAAATGGCATCAGAAAGAAGGAAGCT
89697 P A A CGCGCCGAGGATGTGTGAAGATATATTATGGCCY
89697 P G A ATGACGTGGCAGACGTGTGTGAAGATATATTATGGCY
89697 T A A ATGTGGCCATAATATATCTTCACACATGCTTCCTTCTTTCTGATGCCATTTTGTACCTGGAGTAGAGAT
89697 T G A ATGTGGCCATAATATATCTTCACACACGCTTCCTTCTTTCTGATGCCATTTTGTACCTGGAGTAGAGAT
ACCTGCCTTATAACAAAAATCTCTACTCCAGGTACAAAATGGCATCAGAAAGAAGGAAGC[AG]TGTGTGAAGATATATT
89697 IS [AG] ATGGCCACATTAAAATTAGCTTTACCAAACAAACCACACAAAGG
89704 I A AGCTCATGTCTCGTGCACAAAGCCTGCTT
89704 P C A CGCGCCGAGGCTGCTCCTAGAGCGGY
89704 P G A ATGACGTGGCAGACGTGCTCCTAGAGCGGY
89704 T C A TTAACCGCTCTAGGAGCAGAGCAGGCTTTGTGCACGAGACATGAGCTTA
89704 T G A TTAACCGCTCTAGGAGCACAGCAGGCTTTGTGCACGAGACATGAGCTTA
CTCCGGTACCTAATGATCCACCTCAAAAAGTAAGCTCATGTCTCGTGCACAAAGCCTGCT[CG]TGCTCCTAGAGCGGT
89704 IS [CG] TAATGCATGAGGAAAAGTGGACGGCATTCCTCCCCAGCCATAACT
89793 I S CCCATGACAGGCATGGGGCTGTCTTTGAGT
89793 P C S ATGACGTGGCAGACGAGTGGGTTTGCAGCY
89793 P T S CGCGCCGAGGAAGTGGGTTTGCAGCY
89793 T C S GATTGCTGCAAACCCACTCCTCAAAGACAGCCCCATGCCTGTCATGGGTG
89793 T T S GATTGCTGCAAACCCACTTCTCAAAGACAGCCCCATGCCTGTCATGGGTG
AGAGTTAAGACCTCCTCTTTCAGATACTGTAGACCTGCCTGTGATTGCTGCAAACCCACT[CT]CTCAAAGACAGCCCC
89793 IS [CT] ATGCCTGTCATGGGTGTAGCATGAGCCGGGCTTCCTGCAGACACT
89862 I S CCCTTCCCTGTGCCCTCTTCATCCCTCA
89862 P A S CGCGCCGAGGTACCTCCAAGCCCATCY
89862 P G S ATGACGTGGCAGACCACCTCCAAGCCCAY
89862 T A S GGAGGATGGGCTTGGAGGTAGAGGGATGAAGAGGGCACAGGGAAGGGAG
89862 T G S GGAGGATGGGCTTGGAGGTGGAGGGATGAAGAGGGCACAGGGAAGGGAG
CTGGCTCCAAGAGTCTGCAAGTGGTTCTTCCAGACTTGGAGGGAGGATGGGCTTGGAGGT[AG]GAGGGATGAAGAG
89862 IS [AG] GGCACAGGGAAGGGAGGACCGTCGGGAACTTACTGGTGTTGTGGTCT
89864 I S GGGAATCGCACTTGTTGCAAATATCTAACCATGTAAGATAATACTTGGGATATATTTCC
89864 P A S CGCGCCGAGGTGGATCCATAAGGGTTCCY
89864 P T S ATGACGTGGCAGACAGGATCCATAAGGGTTCCY
CTTAGGAACCCTTATGGATCCAGAAATATATCCCAAGTATTATCTTACATGGTTAGATATTTGCAACAAGTGCGATTCC
89864 T A S CAC
CTTAGGAACCCTTATGGATCCTGAAATATATCCCAAGTATTATCTTACATGGTTAGATATTTGCAACAAGTGCGATTCC
89864 T T S CAC
ATTAATGGTCAGAAATGACCCAAGAAGAAGAGTTCCAATCTTAGGAACCCTTATGGATCC[AT]GAAATATATCCCAAGT
89864 IS [AT] ATTATCTTACATGGTTAGATATTTGCAACAAGTGCGATTCCCAC
89948 I S GCAGGGCGTACTATAGGAAGAGACAGAAAGTTCT
89948 P T S CGCGCCGAGGATAAGCAGCAGACCTTCAY
89948 P G S ATGACGTGGCAGACCTAAGCAGCAGACCTTCY
89948 T T S ATTCTGAAGGTCTGCTGCTTATGAACTTTCTGTCTCTTCCTATAGTACGCCCTGCAT
89948 T G S ATTCTGAAGGTCTGCTGCTTAGGAACTTTCTGTCTCTTCCTATAGTACGCCCTGCAT
GTGTGAGCCATCAGCGCTTCCAGACATGCTCCATGCTTAATTCTGAAGGTCTGCTGCTTA[TG]GAACTTTCTGTCTCTT
89948 IS [TG] CCTATAGTACGCCCTGCATGTATACAATGAAGTGATGAGTGTTG
90085 I S GGAGGGCCCAGGGAGGTTGTGAAATGAT
90085 P C S ATGACGTGGCAGACGGGAGAAAGGAAGGAACAY
90085 P T S CGCGCCGAGGAGGAGAAAGGAAGGAACAY
90085 T C S CCCCTGTTCCTTCCTTTCTCCCTCATTTCACAACCTCCCTGGGCCCTCCTC
90085 T T S CCCCTGTTCCTTCCTTTCTCCTTCATTTCACAACCTCCCTGGGCCCTCCTC
AAGAAGAAAGATGAGAACAAGACAGTTACTCTTCCCGGACCCCTGTTCCTTCCTTTCTCC[CT]TCATTTCACAACCTCC
90085 IS [CT] CTGGGCCCTCCTCTACCTTGAAAGCTACGCAGACTTTCCTGGCC
90129 I S CCTGGTAGCTGCTTGTAACTTCCACTCCTGGAAT
90129 P C S ATGACGTGGCAGACGGAAGCATTAGGCATTAGGY
90129 P T S CGCGCCGAGGAGAAGCATTAGGCATTAGGY
90129 T C S GTTTCCTAATGCCTAATGCTTCCTTCCAGGAGTGGAAGTTACAAGCAGCTACCAGGGA
90129 T T S GTTTCCTAATGCCTAATGCTTCTTTCCAGGAGTGGAAGTTACAAGCAGCTACCAGGGA
AAAATTTATATGATTAATAGGCATTAGTCATGCCTAATGTTTCCTAATGCCTAATGCTTC[CT]TTCCAGGAGTGGAAGTT
90129 IS [CT] ACAAGCAGCTACCAGGGATAAATGGAGCAGCAACTTCCCAGGG
90205 I S ACATGAAATGCTTTTCTCCTGCAGATGTGGACT
90205 P T S CGCGCCGAGGAAAGTACAAGAAAGCAGAAATTCY
90205 P C S ATGACGTGGCAGACGAAGTACAAGAAAGCAGAAATTY
90205 T T S TTTTGAATTTCTGCTTTCTTGTACTTTGTCCACATCTGCAGGAGAAAAGCATTTCATGTTA
90205 T C S TTTTGAATTTCTGCTTTCTTGTACTTCGTCCACATCTGCAGGAGAAAAGCATTTCATGTTA
AGAATTAGGAGCTTTGTTGCTCCCTAGACCTGCTTTTTGAATTTCTGCTTTCTTGTACTT[TC]GTCCACATCTGCAGGA
90205 IS [TC] GAAAAGCATTTCATGTTATTTAGTCAAAGATGAAACAAAATACA
90241 I A AATATAAGACAGTAAACAAGGAAGTAGTTTAATTGCAAAATAATATTGTATCCTTTAGATT
90241 P A A CGCGCCGAGGAACATGTGAGTTATGTGAGAGY
90241 P G A ATGACGTGGCAGACGACATGTGAGTTATGTGAGAGY
ACGCCTCTCACATAACTCACATGTTATCTAAAGGATACAATATTATTTTGCAATTAAACTACTTCCTTGTTTACTGTCTTA
90241 T A A TATT
ACGCCTCTCACATAACTCACATGTCATCTAAAGGATACAATATTATTTTGCAATTAAACTACTTCCTTGTTTACTGTCTT
90241 T G A ATATT
AATATAAGACAGTAAACAAGGAAGTAGTTTAATTGCAAAATAATATTGTATCCTTTAGAT[AG]ACATGTGAGTTATGTGA
90241 IS [AG] GAGGCGTGGCGTGTAGAGTTGATGCAGATCGATGCCATGTTTG
93372 I A ACAAGTGGGGTTCTGGCCTTCCAGTTCCT
93372 P G A ATGACGTGGCAGACGAAGAGAAGTGTCACAATGAY
93372 P A A CGCGCCGAGGAAAGAGAAGTGTCACAATGATY
93372 T G A TACTATCATTGTGACACTTCTCTTCGGAACTGGAAGGCCAGAACCCCACTTGTAA
93372 T A A TACTATCATTGTGACACTTCTCTTTGGAACTGGAAGGCCAGAACCCCACTTGTAA
CCTAAATTTTCCTTGTATTTTCCCAGCACTTTACAAGTGGGGTTCTGGCCTTCCAGTTCC[GA]AAGAGAAGTGTCACAA
93372 IS [GA] TGATAGTAAATTTTGATCAAAATTCTGGTACCTATAGCTGAGCA
93375 I A GAGGCGAGGCTTGAAAACCGGCAATCCT
93375 P G A ATGACGTGGCAGACGGTAACAGCTAGCTACATCY
93375 P A A CGCGCCGAGGAGTAACAGCTAGCTACATCTY
93375 T G A CTGAAGATGTAGCTAGCTGTTACCGGATTGCCGGTTTTCAAGCCTCGCCTCAC
93375 T A A CTGAAGATGTAGCTAGCTGTTACTGGATTGCCGGTTTTCAAGCCTCGCCTCAC
CCCCATGCGAGAAACTGCCAAGAGGGTCCATGTGAGGCGAGGCTTGAAAACCGGCAATCC[GA]GTAACAGCTAGCTA
93375 IS [GA] CATCTTCAGAGCTTGGGAGATTCAGTGGAGCCTTGAAGCACCTCTA
93377 I S GGGCATGTTGAATATTATGAATATCATCTCCCTCTTCAAATAATCCAAAATATACCCCT
93377 P G S CGCGCCGAGGCAAGAAACAGGCTGATTAGAY

FIGURE 129D

93377	P	C	S	ATGACGTGGCAGACGAAGAAACAGGCTGATTAGAY
				CACCTCTAATCAGCCTGTTTCTTGGGGGTATATTTTGGATTATTTGAAGAGGGAGATGATATTCATAATATTCAACATG
93377	T	G	S	CCCAA
				CACCTCTAATCAGCCTGTTTCTTCGGGGTATATTTTGGATTATTTGAAGAGGGAGATGATATTCATAATATTCAACATG
93377	T	C	S	CCCAA
				ATCTTCAGAGCTTGGGAGATTCAGTGGAGCCTTGAAGCACCTCTAATCAGCCTGTTTCTT[GC]GGGGTATATTTTGGA
93377	IS	[GC]		TTATTTGAAGAGGGAGATGATATTCATAATATTCAACATGCCCAA
93379	I		A	GATGGTCAAGGATGTCTCAGGAAGAAGAGGGCAT
93379	P	A	A	CGCGCCGAGGAGAAGAGTACAGGAAACTTGY
93379	P	G	A	ATGACGTGGCAGACGGAAGAGTACAGGAAACTTGY
93379	T	A	A	TACCCAAGTTTCCTGTACTCTTCTTGCCCTCTTCTTCCTGAGACATCCTTGACCATCAC
93379	T	G	A	TACCCAAGTTTCCTGTACTCTTCCTGCCCTCTTCTTCCTGAGACATCCTTGACCATCAC
				GACACAGTTATCTCAGTGGAGAGCTGTGATGGTCAAGGATGTCTCAGGAAGAAGAGGGCA[AG]GAAGAGTACAGGAA
93379	IS	[AG]		ACTTGGGTAGAACAAGGAATCTCGGGGCATAACAACAAAAGAAATC
93383	I		A	GGGTCTTGACATCTTTATGAACACAGAAAGACCAGTGCTAACAAT
93383	P	G	A	ATGACGTGGCAGACGTAAAGAGAAAAACGAGGCTY
93383	P	A	A	CGCGCCGAGGATAAAGAGAAAAACGAGGCTY
93383	T	G	A	TAAAAGCCTCGTTTTTCTCTTTACTTGTTAGCACTGGTCTTTCTGTGTTCATAAAGATGTCAAGACCCAA
93383	T	A	A	TAAAAGCCTCGTTTTTCTCTTTATTTGTTAGCACTGGTCTTTCTGTGTTCATAAAGATGTCAAGACCCAA
				TTCTTGTTTTTTTTTTGGGTCTTGACATCTTTATGAACACAGAAAGACCAGTGCTAACAA[GA]TAAAGAGAAAAACGAG
93383	IS	[GA]		GCTTTTACCACTACTCGTTCAGGTCTGCTGACAGTACATTTTTA
93390	I		S	GTTTGTGACATGGCCCAGACTTTTCTCATCTTTTCAAAAGTAAGAT
93390	P	T	S	CGCGCCGAGGAGTACGTATGAAGAAACAGCY
93390	P	C	S	ATGACGTGGCAGACGGTACGTATGAAGAAACAGCY
93390	T	T	S	AGTCGCTGTTTCTTCATACGTACTTCTTACTTTTGAAAAGATGAGAAAAGTCTGGGCCATGTCACAAACAT
93390	T	C	S	AGTCGCTGTTTCTTCATACGTACCTCTTACTTTTGAAAAGATGAGAAAAGTCTGGGCCATGTCACAAACAT
				ACCTAGTGGGTGGCAGTCACAAAAGAGATAAACAATAAGTCGCTGTTTCTTCATACGTAC[TC]TCTTACTTTTGAAAAG
93390	IS	[TC]		ATGAGAAAAGTCTGGGCCATGTCACAAACATTGCCAAAAATAAG
93391	I		S	GGTCTCTACACATTCACCGTGGCCACC
93391	P	A	S	CGCGCCGAGGTGCAGGATGTATTGGTACAY
93391	P	C	S	ATGACGTGGCAGACGGCAGGATGTATTGGTACY
93391	T	A	S	TGCCTGTACCAATACATCCTGCAGTGGCCACGGTGAATGTGTAGAGACCAT
93391	T	C	S	TGCCTGTACCAATACATCCTGCCGTGGCCACGGTGAATGTGTAGAGACCAT
				TAATAGTCCTCCTCATCATGCTTTGTATTTTCCGTAGCTGCCTGTACCAATACATCCTGC[AC]GTGGCCACGGTGAATG
93391	IS	[AC]		TGTAGAGACCATCAATAATTACACTTGCAAGTGTGACCCTGGCT
93399	I		S	TGGACAGCATCGCATCTCACAGCTGGAACT
93399	P	T	S	CGCGCCGAGGACACGAGAGAGCACTTTY
93399	P	C	S	ATGACGTGGCAGACGCACGAGAGAGCACTY
93399	T	T	S	TTCTAAAGTGCTCTCTCGTGTGTTCCAGCTGTGAGATGCGATGCTGTCCACC
93399	T	C	S	TTCTAAAGTGCTCTCTCGTGCGTTCCAGCTGTGAGATGCGATGCTGTCCACC
				GGTTACCTTGGGAAACGTATTGCTGGAGATGCAAACAAACTTCTAAAGTGCTCTCTCGTG[TC]GTTCCAGCTGTGAGA
93399	IS	[TC]		TGCGATGCTGTCCACCAGCCCCCGAAGGGTTTGGTGAGGTGTGCT
93402	I		A	GCTGGACTCTCCCTCCTGACATTAGCACCATTTA
93402	P	C	A	ATGACGTGGCAGACCTCCTCTGGCTTCGGY
93402	P	T	A	CGCGCCGAGGTTCCTCTGGCTTCGGY
93402	T	C	A	ATTTCCGAAGCCAGAGGAGAAATGGTGCTAATGTCAGGAGGGAGAGTCCAGCAG
93402	T	T	A	ATTTCCGAAGCCAGAGGAAAAATGGTGCTAATGTCAGGAGGGAGAGTCCAGCAG
				ATTCCCTTGGTAGCTGGACTTTCTGCTGCTGGACTCTCCCTCCTGACATTAGCACCATTT[CT]TCCTCTGGCTTCGGA
93402	IS	[CT]		AATGCTTACGGAAAGGTGAGGAAGTTTATGAATGTACTTCAAAAA
93404	I		A	CAGAGAAGTTCTGGCTGAACACTGGCAACT
93404	P	A	A	CGCGCCGAGGAACAAAGCCAACAGTCAAY
93404	P	G	A	ATGACGTGGCAGACGACAAAGCCAACAGTCAY
93404	T	A	A	TGTTTTGACTGTTGGCTTTGTTGTTGCCAGTGTTCAGCCAGAACTTCTCTGAA
93404	T	G	A	TGTTTTGACTGTTGGCTTTGTCGTTGCCAGTGTTCAGCCAGAACTTCTCTGAA
				ATTAACTTAGCATGTGTTGAAAAAAAAGTTTCAGAGAAGTTCTGGCTGAACACTGGCAAC[AG]ACAAAGCCAACAGTCA
93404	IS	[AG]		AAACAGAGATGTGATAAGGATCAGAACAGCAGAGGTTCTTTTAA
93405	I		S	ATGGGGATTGAAATAATTGCTGGACTTTTGAGAGATAGAC
93405	P	A	S	CGCGCCGAGGTATATTAAATTGCAAACTGGCAGY
93405	P	T	S	ATGACGTGGCAGACAATATTAAATTGCAAACTGGCAY
93405	T	A	S	ACTACTGCCAGTTTGCAATTTAATATATCTATCTCTCAAAAGTCCAGCAATTATTTCAATCCCCATTT
93405	T	T	S	ACTACTGCCAGTTTGCAATTTAATATTTCTATCTCTCAAAAGTCCAGCAATTATTTCAATCCCCATTT
				GACTTTAAAACCTAGTTATGTATCAACTGCCCCCACTACTGCCAGTTTGCAATTTAATAT[AT]TCTATCTCTCAAAAGTC
93405	IS	[AT]		CAGCAATTATTTCAATCCCCATTTACAGAAATGGGGCTTGTAG
93406	I		A	CCCATTTACAGAAATGGGGCTTGTAGGAATCAA
93406	P	T	A	CGCGCCGAGGTTGTGAGGGCTAAAGGTY
93406	P	C	A	ATGACGTGGCAGACCTGTGAGGGCTAAAGGTY
93406	T	T	A	ATTGACCTTTAGCCCTCACAATGATTCCTACAAGCCCCATTTCTGTAAATGGGGA
93406	T	C	A	ATTGACCTTTAGCCCTCACAGTGATTCCTACAAGCCCCATTTCTGTAAATGGGGA
				TCTCAAAAGTCCAGCAATTATTTCAATCCCCATTTACAGAAATGGGGCTTGTAGGAATCA[TC]TGTGAGGGCTAAAGGT
93406	IS	[TC]		CAATAGAAATAAAAGGGAAAAAATTTTTTAAAAAAGGAGGTGTA

FIGURE 129E

SNP	OLIGO	PM	DC	OLIGO_SEQUENCE	GPCO	GPCH	SHORT_GENE_NAME
4031	I		A	TGACAGGTTCTGATTTGCATTTTGCAAGGTTCTGTTGACARTTA			
4031	P	C	A	CGCGCCGAGGCTCACAAAACAGCATCGTGT			
4031	P	T	A	CGCGCCGAGGTTCACAAAACAGCATCGTGT			
4031	T	C	A	TTGCACACGATGCTGTTTTGTGAGAAYTGTCAACAGAACCTTGCAAAATGCAAATCAGAACCTGTCATA			
4031	T	T	A	TTGCACACGATGCTGTTTTGTGAAAAYTGTCAACAGAACCTTGCAAAATGCAAATCAGAACCTGTCATA			
4031	IS	[CT]		AGGAAACAATTTGGAGGCCGTAAGGTATGACAGGTTCTGATTTGCATTTTGCAAGGTTCTGTTGACARTT[CT]TCACAAAACAGCATCGTGTGCAAACACCAA AGACCATCTTCAGTTTGTTTCCAGTCTAAATCTCAAGTTCAATTAGTGNTTATTTGCTGCACAAATAATTAACTACTA	ctg13980	1	
6939	I		A	GCAGGAACCTTCCCCAGGCAGAGCCT			
6939	P	C	A	CGCGCCGAGGCTTCACCGTGACACCAG			
6939	P	A	A	CGCGCCGAGGATTCACCGTGACACCAG			
6939	T	C	A	ATCCCTGGTGTCACGGTGAAGGGCTCTGCCTGGGGAAGGTTCCTGCCG			
6939	T	A	A	ATCCCTGGTGTCACGGTGAATGGCTCTGCCTGGGGAAGGTTCCTGCCG			
6939	IS	[CA]		ACAGAGCACCGGAGGGACCCGCACGGCAGGAACCTTCCCCAGGCAGAGCC[CA]TTCACCGTGACACCAGGGATCCCACAAGGGCCCAGGGCCGCCCCGG CAGA	ctg16586	20	
6962	I		S	CCTGCAGTCCTCTGCCAGCTGCCAA			
6962	P	G	S	CGCGCCGAGGCACCCTTGCCAAGGTG			
6962	P	A	S	CGCGCCGAGGTACCCTTGCCAAGGTGT			
6962	T	G	S	AGTCACACCTTGGCAAGGGTGTGGCAGCTGGCAGAGGACTGCAGGTC			
6962	T	A	S	AGTCACACCTTGGCAAGGGTATGGCAGCTGGCAGAGGACTGCAGGTC			
6962	IS	[GA]		CACATCTCCGAAGGTGGCTCCAGGACTCCAAGTCACACCTTGGCAAGGGT[GA]TGGCAGCTGGCAGAGGACTGCAGGTCCTTGTCAGGCAGAACCTGCCG GGT	ctg16586	20	
6972	I		S	GGCACTCAGTTCCACTAACGAATGATGCCCGTT			
6972	P	C	S	CGCGCCGAGGGTGGACAGACAGAATGATGGGY			
6972	P	T	S	CGCGCCGAGGATGGACAGACAGAATGATGGAY			
6972	T	C	S	CCTGTCCATCATTCTGTCTGTCCACACGGGCATCATTCGTTAGTGGAACTGAGTGCCCG			
6972	T	T	S	CCTGTCCATCATTCTGTCTGTCCATACGGGCATCATTCGTTAGTGGAACTGAGTGCCCG			
6972	IS	[CT]		TCACATAAAGCCCACGCATTCATCTGCCTGTCCATCATTCTGTCTGTCCA[CT]ACGGGCATCATTCGTTAGTGGAACTGAGTGCCCGCTGTCGAGCTGACAA G	ctg16586	20	
7035	I		A	TCTCCTAGGCTCTGGTTCATCAGGGTTCATCTTCATCACA			
7035	P	C	A	CGCGCCGAGGCGTCTTGTGGGTGTTGGY			
7035	P	T	A	CGCGCCGAGGTGTCTTGTGGGTGTTGGY			
7035	T	C	A	AACCCCAACACCCACAAGACGGTGATGAAGATGAACCCTGATGAACCAGAGCCTAGGAGATG			
7035	T	T	A	AACCCCAACACCCACAAGACAGTGATGAAGATGAACCCTGATGAACCAGAGCCTAGGAGATG			
7035	IS	[CT]		TTTATTGAGCATCTCCTAGGCTCTGGTTCATCAGGGTTCATCTTCATCAC[CT]GTCTTGTGGGTGTTGGGGTTACCACCTCTGTTGTAGAGATGGACAAGTA C	ctg16586	20	
7051	I		S	GAAGGGAACGAGGGAAAGACAGAATACCCCT			
7051	P	G	S	CGCGCCGAGGCGGCAAAGAGAACAGCAT			
7051	P	C	S	CGCGCCGAGGGGGCAAAGAGAACAGCAT			
7051	T	G	S	ATCCATGCTGTTCTCTTTGCCGGGGGTATTCTGTCTTTCCCTCGTTCCCTTCTT			
7051	T	C	S	ATCCATGCTGTTCTCTTTGCCCGGGGTATTCTGTCTTTCCCTCGTTCCCTTCTT			
7051	IS	[GC]		TACTTACTTCTACCCCAGGGCCTGTGCACATCCATGCTGTTCTCTTTGCC[GC]GGGGTATTCTGTCTTTCCCTCGTTCCCTTCTTTACTCAAAATCCCATATG	ctg14210	12	
7066	I		S	TTTATTTCTCTTGTTTACAAAAGAATTGACATAGGTAAAGGATCAAAAGAA			
7066	P	G	S	CGCGCCGAGGCGGCAGTGACTTTGGTC			
7066	P	A	S	CGCGCCGAGGTGGCAGTGACTTTGGTC			
7066	T	G	S	GAAGGACCAAAGTCACTGCCGTCTTTTGATCCTTTACCTATGTCAATTCTTTTGTAAACAAGAGAAATAAA			
7066	T	A	S	GAAGGACCAAAGTCACTGCCATCTTTTGATCCTTTACCTATGTCAATTCTTTTGTAAACAAGAGAAATAAA			
7066	IS	[GA]		CCTAGTATCTGTTTCTGGAATTTGGTGGGAGAAGGACCAAAGTCACTGCC[GA]TCTTTTGATCCTTTACCTATGTCAATTCTTTTGTAAACAAGAGAAATAAA	ctg14210	12	
7096	I		A	AATACATCTCCACATTTTTTATCAGGATGATTTTTTAAAAAAAGCAGACAT			
7096	P	A	A	CGCGCCGAGGACACTCCTCTTTCTTAGCCT			
7096	P	G	A	CGCGCCGAGGGCACTCCTCTTTCTTAGCC			
7096	T	A	A	GTAAAGGCTAAGAAAGAGGAGTGTTGTCTGCTTTTTTTAAAAAATCATCCTGATAAAAAATGTGGAGATGTATT			
7096	T	G	A	GTAAAGGCTAAGAAAGAGGAGTGCTGTCTGCTTTTTTTAAAAAATCATCCTGATAAAAAATGTGGAGATGTATT			
7096	IS	[AG]		AATACATCTCCACATTTTTTATCAGGATGATTTTTTAAAAAAAGCAGACA[AG]CACTCCTCTTTCTTAGCCTTTACAAGGTACCACTAATGATCTCCCTTAAG	ctg14210	12	
7121	I		A	CCAGCAGTGTCCACTATAGGACCCCCTCACAA			
7121	P	T	A	CGCGCCGAGGTAGGGCATGTGGGAGAAG			
7121	P	C	A	CGCGCCGAGGCAGGGCATGTGGGAGA			
7121	T	T	A	CTGGCTTCTCCCACATGCCCTATGTGAGGGGGTCCTATAGTGGACACTGCTGGAT			
7121	T	C	A	CTGGCTTCTCCCACATGCCCTGTGTGAGGGGGTCCTATAGTGGACACTGCTGGAT			
7121	IS	[TC]		AGAGCATGTAGGGTAAGATCCAGCAGTGTCCACTATAGGACCCCCTCACA[TC]AGGGCATGTGGGAGAAGCCAGGCACCCTGGGCTTGAGACAGAGTCAT GCC			
7145	I		A	GCTGCTGATAACGGATGGTGGCTCCAATGCAA			
7145	P	C	A	CGCGCCGAGGCGCAACAGTTGGAGTGAG			
7145	P	T	A	CGCGCCGAGGTGCAACAGTTGGAGTGAG			
7145	T	C	A	AGCACTCACTCCAACTGTTGCGTGCATTGGAGCCACCATCCGTTATCAGCAGCGC			
7145	T	T	A	AGCACTCACTCCAACTGTTGCATGCATTGGAGCCACCATCCGTTATCAGCAGCGC			
7145	IS	[CT]		GAACTGCAAGCTGATGAGCGCTGCTGATAACGGATGGTGGCTCCAATGCA[CT]GCAACAGTTGGAGTGAGTGCTTAACACAGTTAGTGTCCAATCATTAAAG T			
7147	I		A	GTACATGTTTTTCAAAATACAACCCATTCACAGCATTAAAACAACAGATT			
7147	P	INS	A	CGCGCCGAGGGATGTTATAGGCTGAATTACATCCCY			
7147	P	DEL	A	CGCGCCGAGGGTGTTATAGGCTGAATTACATCCCY			
7147	T	INS	A	GGGAGGGGATGTAATTCAGCCTATAACATCATCTGTTGTTTTAATGCTGTGAATGGGTTGTATTTTGAAAAACATGTAC			
7147	T	DEL	A	GGGAGGGGATGTAATTCAGCCTATAACACATCTGTTGTTTTAATGCTGTGAATGGGTTGTATTTTGAAAAACATGTAC			
7147	IS	[A-]		GTACATGTTTTTCAAAATACAACCCATTCACAGCATTAAAACAACAGATG[A-]TGTTATAGGCTGAATTACATCCCCTCCCCAACTTCGTATGTTGAAGTTC	ctg22fin4	22	
7151	I		A	ATTTGTAGAAATTTTATGCTTATAATCAGTTGCCTCGAAGGAGTTTTTAAC			
7151	P	T	A	CGCGCCGAGGTGCTCTTTGAAGTTTCTTCAGG			
7151	P	A	A	CGCGCCGAGGAGCTCTTTGAAGTTTCTTCAGG			
7151	T	T	A	AAGACCTGAAGAAACTTCAAAGAGCATTAAAAACTCCTTCGAGGCAACTGATTATAAGCATAAAATTTCTACAAAT			
7151	T	A	A	AAGACCTGAAGAAACTTCAAAGAGCTTTAAAAACTCCTTCGAGGCAACTGATTATAAGCATAAAATTTCTACAAAT			
7151	IS	[TA]		ATTTGTAGAAATTTTATGCTTATAATCAGTTGCCTCGAAGGAGTTTTTAA[TA]GCTCTTTGAAGTTTCTTCAGGTCTTGTCTTTCTTTGTTACCTTGCCGCCC	ctg22fin4	22	
7154	I		A	CTGCTTTTGAAATGCCGGTTAAAAGCTGCCTCACAA			
7154	P	T	A	CGCGCCGAGGTTCCCCTTCCTTTGTTCC			
7154	P	C	A	CGCGCCGAGGCTCCCCTTCCTTTGTTCC			
7154	T	T	A	GAGGGGAACAAAGGAAGGGGAATGTGAGGCAGCTTTTAACCGGCATTTCAAAAGCAGGA			
7154	T	C	A	GAGGGGAACAAAGGAAGGGGAGTGTGAGGCAGCTTTTAACCGGCATTTCAAAAGCAGGA			
7154	IS	[TC]		CCCTGGCCAGGGTTCCTGCTTTTGAAATGCCGGTTAAAAGCTGCCTCACA[TC]TCCCCTTCCTTTGTTCCCCTCAATTGTTTCCTCCCAAGCCCTTCTTCCTC	ctg22fin4	22	
7170	I		S	GGCCCTCACTAGACGCAGATACCCAATCTTGATCTTTA			
7170	P	G	S	CGCGCCGAGGCCAGCCATCAGAAGCATG			
7170	P	A	S	CGCGCCGAGGTCAGCCATCAGAAGCATG			
7170	T	G	S	GGGTCATGCTTCTGATGGCTGGAAAGATCAAGATTGGGTATCTGCGTCTAGTGAGGGCCTC			
7170	T	A	S	GGGTCATGCTTCTGATGGCTGAAAAGATCAAGATTGGGTATCTGCGTCTAGTGAGGGCCTC			

FIGURE 129E

7170 IS	[GA]			AGTTTGTAAAGAAAAAAAAGGGTTTATTGGGGTCATGCTTCTGATGGCTG[GA]AAAGATCAAGATTGGGTATCTGCGTCTAGTGAGGGCCTCAGGCTGTCTC C		
7209 I			A	GGGCTGTGTCCACCATGGCTCCTGTCA		
7209 P	C		A	CGCGCCGAGGCTCCTGCTGCTCCTCT		
7209 P	T		A	CGCGCCGAGGTTCCTGCTGCTCCTCTC		
7209 T	C		A	GTGAGAGAGGAGCAGCAGGAGGACAGGAGCCATGGTGGACACAGCCCTT		
7209 T	T		A	GTGAGAGAGGAGCAGCAGGAAGACAGGAGCCATGGTGGACACAGCCCTT		
7209 IS	[CT]			CCACTCCAGCTCTGGACCTCAGAAGGGCTGTGTCCACCATGGCTCCTGTC[CT]TCCTGCTGCTCCTCTCTCACTTCCCAGGTAAGGACAGGCCTCCCACGT CC		
7275 I			S	GGGCCCAGGTGCCTTTTATTCCCATCAAACCA	ctg17326	12
7275 P	A		S	CGCGCCGAGGTTGGGCGGCCTGG		
7275 P	G		S	CGCGCCGAGGCTGGGCGGCCTGG		
7275 T	A		S	CTCACCAGGCCGCCCAAGGTTTGATGGGAATAAAAGGCACCTGGGCCCAC		
7275 T	G		S	CTCACCAGGCCGCCCAGGGTTTGATGGGAATAAAAGGCACCTGGGCCCAC		
7275 IS	[AG]			TCTCTCTGTGAAGTGCGGTTAGCAGCCCCCCTCCCTCACCAGGCCGCCCA[AG]GGTTTGATGGGAATAAAAGGCACCTGGGCCCACTGCTGGACCTGCGG GTG		
7306 I			A	GCCTCGGTGCCATCTCTCTACTCCCTTAGAGGTATCT	ctg17326	12
7306 P	C		A	CGCGCCGAGGCTGTGGCCTCCTGTCC		
7306 P	A		A	CGCGCCGAGGATGTGGCCTCCTGTCC		
7306 T	C		A	CCCAGGACAGGAGGCCACAGGATACCTCTAAGGGAGTAGAGAGATGGCACCGAGGCCA		
7306 T	A		A	CCCAGGACAGGAGGCCACATGATACCTCTAAGGGAGTAGAGAGATGGCACCGAGGCCA		
7306 IS	[CA]			CCCACTGAGGTGTGGCCTCGGTGCCATCTCTCTACTCCCTTAGAGGTATC[CA]TGTGGCCTCCTGTCCTGGGCAGTGGTGGTGACCATGGAGAGGAGAAG GTA		
7342 I			A	CCAAGCAGGATAGCAAAGGCTCAGTGACCCCT	ctg17326	12
7342 P	C		A	CGCGCCGAGGCACATGTTTAGTATGTCTGGGAATTT		
7342 P	A		A	CGCGCCGAGGAACATGTTTAGTATGTCTGGGAAAATT		
7342 T	C		A	ACCATTTCCCAGACATACTAAACATGTGGGGGTCACTGAGCCTTTGCTATCCTGCTTGGGT		
7342 T	A		A	ACCATTTCCCAGACATACTAAACATGTTGGGGTCACTGAGCCTTTGCTATCCTGCTTGGGT		
7342 IS	[CA]			AAAAAAAAAAAAGGGCAACCCAAGCAGGATAGCAAAGGCTCAGTGACCCC[CA]ACATGTTTAGTATGTCTGGGAAATGGTCTGCAGTTTTGAGTCAGGAGAT G		
7359 I			A	TTCTATGTGGAGTAAATACTTGATGTTATCAGTGGTGAATGTGTTTTTAGT	ctg13206	14
7359 P	A		A	CGCGCCGAGGACCCATTCTATCTACAGCTGT		
7359 P	G		A	CGCGCCGAGGGCCCATTCTATCTACAGCTG		
7359 T	A		A	GGAGACAGCTGTAGATAGAATGGGTCTAAAAACACATTCACCACTGATAACATCAAGTATTTACTCCACATAGAA		
7359 T	G		A	GGAGACAGCTGTAGATAGAATGGGCCTAAAAACACATTCACCACTGATAACATCAAGTATTTACTCCACATAGAA		
7359 IS	[AG]			TTCTATGTGGAGTAAATACTTGATGTTATCAGTGGTGAATGTGTTTTTAG[AG]CCCATTCTATCTACAGCTGTCTCCCAAATGGCTGTCAGGCTTTTCCTGGC	ctg13206	14
7366 I			S	ATGAGAAAAACAGCCCCATAAATATGGAACCATAAAAACCTATTTCTGAAT		
7366 P	C		S	CGCGCCGAGGGGAATCGTAAATCAAGGAAGATTAC		
7366 P	T		S	CGCGCCGAGGAGAATCGTAAATCAAGGAAGATTACA		
7366 T	C		S	TGATTGTAATCTTCCTTGATTTACGATTCCTTCAGAAATAGGTTTTTATGGTTCCATATTTATGGGGCTGTTTTTCTCAT		
7366 T	T		S	TGATTGTAATCTTCCTTGATTTACGATTCTTTCAGAAATAGGTTTTTATGGTTCCATATTTATGGGGCTGTTTTTCTCAT		
7366 IS	[CT]			GTTTCAAATATTTTCAAATTTTGATTGTAATCTTCCTTGATTTACGATTC[CT]TTCAGAAATAGGTTTTTATGGTTCCATATTTATGGGGCTGTTTTTCTCAT		
7374 I			S	GGCAACCCTTCCATCATTCTATCAACCATGCCACCT		
7374 P	G		S	CGCGCCGAGGCCCTTCTCCCTGCCG		
7374 P	T		S	CGCGCCGAGGACCTTCTCCCTGCCG		
7374 T	G		S	AACTCGGCAGGGAGAAGGGGGTGGCATGGTTGATAGAATGATGGAAGGGTTGCCCA		
7374 T	T		S	AACTCGGCAGGGAGAAGGTGGTGGCATGGTTGATAGAATGATGGAAGGGTTGCCCA		
7374 IS	[GT]			GAACTCGGCGCCTGAGCCGGCAGCTGACCACCAACTCGGCAGGGAGAAGG[GT]GGTGGCATGGTTGATAGAATGATGGAAGGGTTGCCCAGTGCACAGG CTGG		
7539 I			A	GGCTAACATCCAAACCCCTTTGTATAATCTCCATTGTCTTGCAAGC	ctg12325	11
7539 P	T		A	CGCGCCGAGGTGTGATTCCCACCTCCC		
7539 P	G		A	CGCGCCGAGGGGTGATTCCCACCTCCC		
7539 T	T		A	GAATGGGAGGTGGGAATCACACTTGCAAGACAATGGAGATTATACAAAGGGGTTTGGATGTTAGCCAA		
7539 T	G		A	GAATGGGAGGTGGGAATCACCCTTGCAAGACAATGGAGATTATACAAAGGGGTTTGGATGTTAGCCAA		
7539 IS	[TG]			CTCTTGGCTAACATCCAAACCCCTTTGTATAATCTCCATTGTCTTGCAAG[TG]GTGATTCCCACCTCCCATTCCAAACCCATTTCCACTCACTCCTCCATTCT	ctg12325	11
7560 I			S	ATTTCCAAATATTTTTGATCCAAGATTGATTGAATCTCAGGATGGGGAACT		
7560 P	C		S	CGCGCCGAGGGCATGGATACAGAGGGCATT		
7560 P	T		S	CGCGCCGAGGACATGGATACAGAGGGCTTTT		
7560 T	C		S	AGTCAGCCCTCTGTATCCATGCGTTCCCCATCCTGAGATTCAATCAATCTTGGATCAAAAATATTTGGAAAT		
7560 T	T		S	AGTCAGCCCTCTGTATCCATGTGTTCCCCATCCTGAGATTCAATCAATCTTGGATCAAAAATATTTGGAAAT		
7560 IS	[CT]			TATAGTTTATAATATATATTTACAAATGCAGTCAGCCCTCTGTATCCATG[CT]GTTCCCCATCCTGAGATTCAATCAATCTTGGATCAAAAATATTTGGAAAT	ctg15064	7
7579 I			A	CACCCTCACCTCCAGCGAGCCCCA		
7579 P	C		A	CGCGCCGAGGCTGCCTCCATCACAACTG		
7579 P	T		A	CGCGCCGAGGTTGCCTCCATCACAACTG		
7579 T	C		A	GGGGCAGTTGTGATGGAGGCAGGGGGCTCGCTGGAGGTGAGGGTGGA		
7579 T	T		A	GGGGCAGTTGTGATGGAGGCAAGGGGCTCGCTGGAGGTGAGGGTGGA		
7579 IS	[CT]			AGAAAGAGTTGTCCACACTTGACCGTCCACCCTCACCTCCAGCGAGCCCC[CT]TGCCTCCATCACAACTGCCCCCAGGGGTCTAAAATCATCCTCCAGTCC AT		
14387 I			A	TTCAGTGCCTCATGTACTGTGTGGGTCTGGTGTAGT	ctg15064	7
14387 P	G		A	CGCGCCGAGGGGTTGTCAGATAAAATACAGGATGTY		
14387 P	A		A	CGCGCCGAGGAGTTGTCAGATAAAATACAGGATGTY		
14387 T	G		A	CTGGACATCCTGTATTTTATCTGACAACCCTACACCAGACCCACACAGTACATGAGGCACTGAAGT		
14387 T	A		A	CTGGACATCCTGTATTTTATCTGACAACTCTACACCAGACCCACACAGTACATGAGGCACTGAAGT		
14387 IS	[GA]			CAAAACAAATCTACTTCAGTGCCTCATGTACTGTGTGGGTCTGGTGTAG[GA]GTTGTCAGATAAAATACAGGATGTCCAGTTATATTTGAATATTAAGTAAAA	ctg15064	7
14389 I			A	GTGAGTTGTGGTTTTTATTCATCGTGTGACTAC		
14389 P	G		A	CGCGCCGAGGGAGTCATTCTGCCTGCCY		
14389 P	T		A	CGCGCCGAGGTAGTCATTCTGCCTGCCCY		
14389 T	G		A	TTTCGGGCAGGCAGAATGACTCTAGTCACACGATGAATAAAAACCACAACTCAC		
14389 T	T		A	TTTCGGGCAGGCAGAATGACTATAGTCACACGATGAATAAAAACCACAACTCAC		
14389 IS	[GT]			GTGAGTTGTGGTTTTTATTCATCGTGTGACTA[GT]AGTCATTCTGCCTGCCCGAAAGTTATGTCAGAGAAACCTAGGATTTAGCTGAAGAAATGAAAAAAAA		
14731 I			A	CTTGTAAGTGGCTGGGCTGGGAGACCATCTA		
14731 P	T		A	CGCGCCGAGGTAGGTCTACCTGAGCTTAGTTCY		
14731 P	C		A	CGCGCCGAGGCAGGTCTACCTGAGCTTAGTY		
14731 T	T		A	ATAGGAACTAAGCTCAGGTAGACCTAAGATGGTCTCCCAGCCCAGCCACTTACAAGCC		
14731 T	C		A	ATAGGAACTAAGCTCAGGTAGACCTGAGATGGTCTCCCAGCCCAGCCACTTACAAGCC		
14731 IS	[TC]			ATTTGCCCAAGGTCAAATGGCTTGTAAGTGGCTGGGCTGGGAGACCATCT[TC]AGGTCTACCTGAGCTTAGTTCCTATGCTCTATCGATGAAGGAATTCTGC T		
14746 I			S	TGGACTCTGAAAATCCTGTGTCCCAGGAAACTGCTT	ctg15131	10
14746 P	G		S	CGCGCCGAGGCATTTCTGGGCAAACTGGTY		
14746 P	T		S	CGCGCCGAGGAATTTCTGGGCAAACTGGTY		
14746 T	G		S	CCAAACCAGTTTGCCCAGAAATGAGCAGTTTCCTGGGACACAGGATTTTCAGAGTCCAGA		
14746 T	T		S	CCAAACCAGTTTGCCCAGAAATTAGCAGTTTCCTGGGACACAGGATTTTCAGAGTCCAGA		

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FIGURE 129E

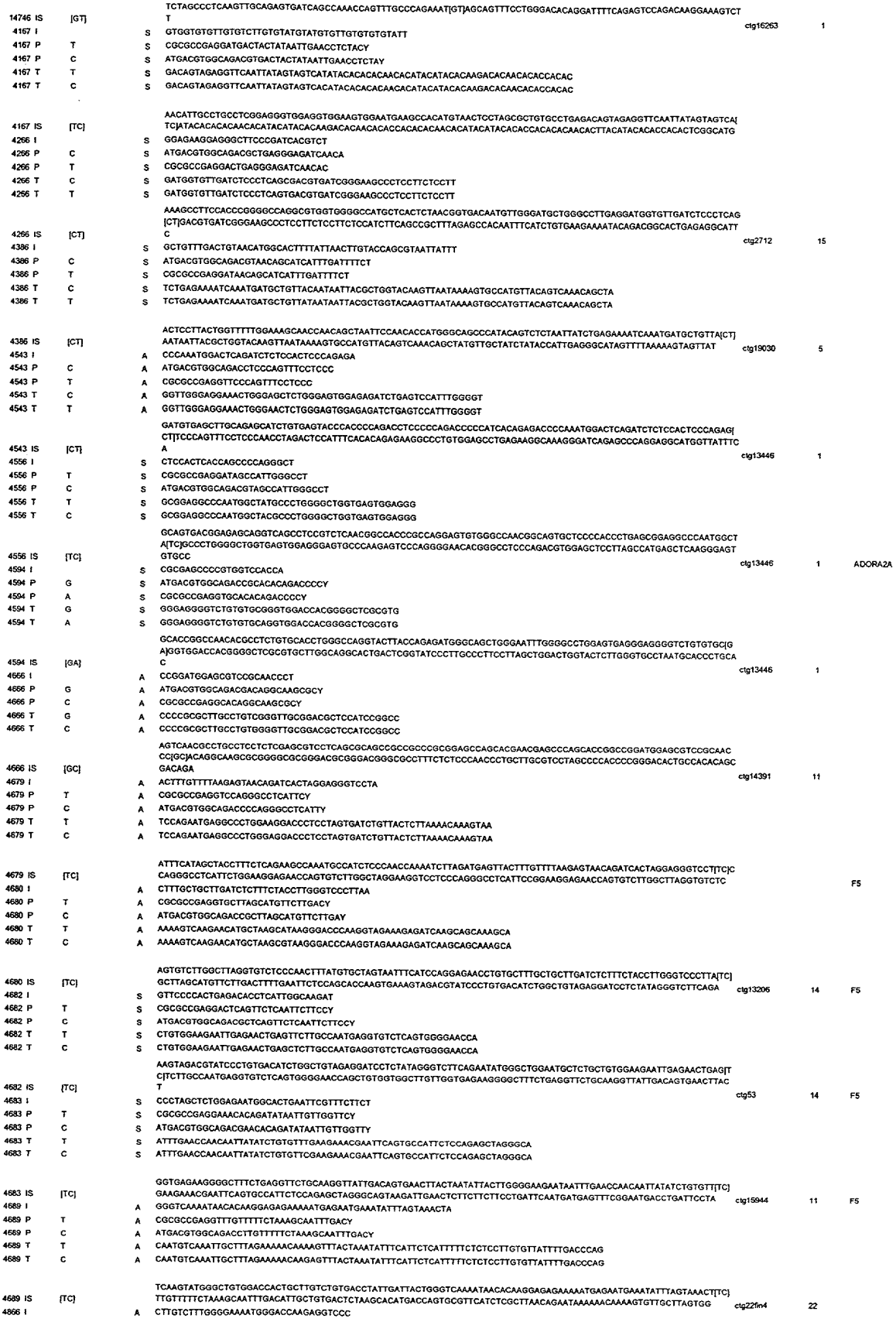

14746 IS [GT] TCTAGCCCTCAAGTTGCAGAGTGATCAGCCAAACCAGTTTGCCCAGAAAT[GT]AGCAGTTTCCTGGGACACAGGATTTTCAGAGTCCAGACAAGGAAAGTCT T ctg16263 1
4167 I S GTGGTGTGTTGTGTCTTGTGTATGTATGTGTTGTGTGTGTATT
4167 P T S CGCGCCGAGGATGACTACTATAATTGAACCTCTACY
4167 P C S ATGACGTGGCAGACGTGACTACTATAATTGAACCTCTAY
4167 T T S GACAGTAGAGGTTCAATTATAGTAGTCATATACACACACAACACATACATACACAAGACACAACACACCACAC
4167 T C S GACAGTAGAGGTTCAATTATAGTAGTCACATACACACACAACACATACATACACAAGACACAACACACCACAC
4167 IS [TC] AACATTGCCTGCCTCGGAGGGTGGAGGTGGAAGTGGAATGAAGCCACATGTAACTCCTAGCGCTGTGCCTGAGACAGTAGAGGTTCAATTATAGTAGTCA[TC]ATACACACACAACACATACATACACAAGACACAACACACCACACACAACACATACATACACCACACACAACACTTACATACACACCACACTCGGCATG
4266 I S GGAGAAGGAGGGCTTCCCGATCACGTCT
4266 P C S ATGACGTGGCAGACGCTGAGGGAGATCAACA
4266 P T S CGCGCCGAGGACTGAGGGAGATCAACAC
4266 T C S GATGGTGTTGATCTCCCTCAGCGACGTGATCGGGAAGCCCTCCTTCTCCTT
4266 T T S GATGGTGTTGATCTCCCTCAGTGACGTGATCGGGAAGCCCTCCTTCTCCTT
4266 IS [CT] AAAGCCTTCCACCCGGGGCCAGGCGTGGTGGGGCCATGCTCACTCTAACGGTGACAATGTTGGGATGCTGGGCCTTGAGGATGGTGTTGATCTCCCTCAG [CT]GACGTGATCGGGAAGCCCTCCTTCTCCTTCTCCATCTTCAGCCGCTTTAGAGCCACAATTTCATCTGTGAAGAAAATACAGACGGCACTGAGAGGCATT C ctg2712 15
4386 I S GCTGTTTGACTGTAACATGGCACTTTTATTAACTTGTACCAGCGTAATTATTT
4386 P C S ATGACGTGGCAGACGTAACAGCATCATTTGATTTTCT
4386 P T S CGCGCCGAGGATAACAGCATCATTTGATTTTCT
4386 T C S TCTGAGAAAATCAAATGATGCTGTTACAATAATTACGCTGGTACAAGTTAATAAAAGTGCCATGTTACAGTCAAACAGCTA
4386 T T S TCTGAGAAAATCAAATGATGCTGTTATAATAATTACGCTGGTACAAGTTAATAAAAGTGCCATGTTACAGTCAAACAGCTA
4386 IS [CT] ACTCCTTACTGGTTTTTGGAAAGCAACCAACAGCTAATTCCAACACCATGGGCAGCCCATACAGTCTCTAATTATCTGAGAAAATCAAATGATGCTGTTA[CT] AATAATTACGCTGGTACAAGTTAATAAAAGTGCCATGTTACAGTCAAACAGCTATGTTGCTATCTATACCATTGAGGGCATAGTTTAAAAAGTAGTTAT ctg19030 5
4543 I A CCCAAATGGACTCAGATCTCTCCACTCCCAGAGA
4543 P C A ATGACGTGGCAGACCTCCCAGTTTCCTCCC
4543 P T A CGCGCCGAGGTTCCCAGTTTCCTCCC
4543 T C A GGTTGGGAGGAAACTGGGAGCTCTGGGAGTGGAGAGATCTGAGTCCATTTGGGGT
4543 T T A GGTTGGGAGGAAACTGGGAACTCTGGGAGTGGAGAGATCTGAGTCCATTTGGGGT
4543 IS [CT] GATGTGAGCTTGCAGAGCATCTGTGAGTACCCACCCCAGACCTCCCCCAGACCCCCATCACAGAGACCCCAAATGGACTCAGATCTCTCCACTCCCAGAG[CT]TCCCAGTTTCCTCCCAACCTAGACTCCATTTCACACAGAGAAGGCCCTGTGGAGCCTGAGAAGGCAAAGGGATCAGAGCCCAGGAGGCATGGTTATTTC A ctg13446 1
4556 I S CTCCACTCACCAGCCCCAGGGCT
4556 P T S CGCGCCGAGGATAGCCATTGGGCCT
4556 P C S ATGACGTGGCAGACGTAGCCATTGGGCCT
4556 T T S GCGGAGGCCCAATGGCTATGCCCTGGGGCTGGTGAGTGGAGGG
4556 T C S GCGGAGGCCCAATGGCTACGCCCTGGGGCTGGTGAGTGGAGGG
4556 IS [TC] GCAGTGACGGAGAGCAGGTCAGCCTCCGTCTCAACGGCCACCCGCCAGGAGTGTGGGCCAACGGCAGTGCTCCCCACCCTGAGCGGAGGCCCAATGGCT A[TC]GCCCTGGGGCTGGTGAGTGGAGGGAGTGCCCAAGAGTCCCAGGGGAACACGGGCCTCCCAGACGTGGAGCTCCTTAGCCATGAGCTCAAGGGAGT GTGCC ctg13446 1 ADORA2A
4594 I S CGCGAGCCCCGTGGTCCACCA
4594 P G S ATGACGTGGCAGACCGCACACAGACCCCY
4594 P A S CGCGCCGAGGTGCACACAGACCCCY
4594 T G S GGGAGGGGTCTGTGTGCGGGTGGACCACGGGGCTCGCGTG
4594 T A S GGGAGGGGTCTGTGTGCAGGTGGACCACGGGGCTCGCGTG
4594 IS [GA] GCACCGGCCAACACGCCTCTGTGCACCTGGGCCAGGTACTTACCAGAGATGGGCAGCTGGGAATTTGGGGCCTGGAGTGAGGGAGGGGTCTGTGTGC[G A]GGTGGACCACGGGGCTCGCGTGCTTGGCAGGCACTGACTCGGTATCCCTTGCCCTTCCTTAGCTGGACTGGTACTCTTGGGTGCCTAATGCACCCTGCA C ctg13446 1
4666 I A CCGGATGGAGCGTCCGCAACCCT
4666 P G A ATGACGTGGCAGACGACAGGCAAGCGCY
4666 P C A CGCGCCGAGGCACAGGCAAGCGCY
4666 T G A CCCCGCGCTTGCCTGTCGGGTTGCGGACGCTCCATCCGGCC
4666 T C A CCCCGCGCTTGCCTGTGGGGTTGCGGACGCTCCATCCGGCC
4666 IS [GC] AGTCAACGCCTGCCTCCTCTCGAGCGTCCTCAGCGCAGCCGCCGCCCGCGGAGCCAGCACGAACGAGCCCAGCACCGGCCGGATGGAGCGTCCGCAAC CC[GC]ACAGGCAAGCGCGGGGCGCGGGACGCGGGACGGGCGCCTTTCTCTCCCAACCCTGCTTGCGTCCTAGCCCCACCCCGGGACACTGCCACACAGC GACAGA ctg14391 11
4679 I A ACTTTGTTTTAAGAGTAACAGATCACTAGGAGGGTCCTA
4679 P T A CGCGCCGAGGTCCAGGGCCTCATTCY
4679 P C A ATGACGTGGCAGACCCCAGGGCCTCATTY
4679 T T A TCCAGAATGAGGCCCTGGAAGGACCCTCCTAGTGATCTGTTACTCTTAAAACAAAGTAA
4679 T C A TCCAGAATGAGGCCCTGGGAGGACCCTCCTAGTGATCTGTTACTCTTAAAACAAAGTAA
4679 IS [TC] ATTTCATAGCTACCTTTCTCAGAAGCCAAATGCCATCTCCCAACCAAAATCTTAGATGAGTTACTTTGTTTTAAGAGTAACAGATCACTAGGAGGGTCCT[TC]C CAGGGCCTCATTCTGGAAGGAGAACCAGTGTCTTGGCTAGGAAGGTCCTCCCAGGGCCTCATTCCGGAAGGAGAACCAGTGTCTTGGCTTAGGTGTCTC
4680 I A CTTTGCTGCTTGATCTCTTTCTACCTTGGGTCCCTTAA F5
4680 P T A CGCGCCGAGGTGCTTAGCATGTTCTTGACY
4680 P C A ATGACGTGGCAGACCGCTTAGCATGTTCTTGAY
4680 T T A AAAAGTCAAGAACATGCTAAGCATAAGGGACCCAAGGTAGAAAGAGATCAAGCAGCAAAGCA
4680 T C A AAAAGTCAAGAACATGCTAAGCGTAAGGGACCCAAGGTAGAAAGAGATCAAGCAGCAAAGCA
4680 IS [TC] AGTGTCTTGGCTTAGGTGTCTCCCAACTTTATGTGCTAGTAATTTCATCCAGGAGAACCTGTGCTTTGCTGCTTGATCTCTTTCTACCTTGGGTCCCTTA[TC] GCTTAGCATGTTCTTGACTTTTGAATTCTCCAGCACCAAGTGAAAGTAGACGTATCCCTGTGACATCTGGCTGTAGAGGATCCTCTATAGGGTCTTCAGA ctg13206 14 F5
4682 I S GTTCCCCACTGAGACACCTCATTGGCAAGAT
4682 P T S CGCGCCGAGGACTCAGTTCTCAATTCTTCCY
4682 P C S ATGACGTGGCAGACGCTCAGTTCTCAATTCTTCCY
4682 T T S CTGTGGAAGAATTGAGAACTGAGTTCTTGCCAATGAGGTGTCTCAGTGGGGAACCA
4682 T C S CTGTGGAAGAATTGAGAACTGAGCTCTTGCCAATGAGGTGTCTCAGTGGGGAACCA
4682 IS [TC] AAGTAGACGTATCCCTGTGACATCTGGCTGTAGAGGATCCTCTATAGGGTCTTCAGAATATGGGCTGGAATGCTCTGCTGTGGAAGAATTGAGAACTGAG[T C]TCTTGCCAATGAGGTGTCTCAGTGGGGAACCAGCTGTGGTGGCTTGTTGGTGAGAAGGGGCTTTCTGAGGTTCTGCAAGGTTATTGACAGTGAACTTAC T ctg53 14 F5
4683 I S CCCTAGCTCTGGAGAATGGCACTGAATTCGTTTCTTCT
4683 P T S CGCGCCGAGGAAACACAGATATAATTGTTGGTTCY
4683 P C S ATGACGTGGCAGACGAACACAGATATAATTGTTGGTTY
4683 T T S ATTTGAACCAACAATTATATCTGTGTTTGAAGAAACGAATTCAGTGCCATTCTCCAGAGCTAGGGCA
4683 T C S ATTTGAACCAACAATTATATCTGTGTTCGAAGAAACGAATTCAGTGCCATTCTCCAGAGCTAGGGCA
4683 IS [TC] GGTGAGAAGGGGCTTTCTGAGGTTCTGCAAGGTTATTGACAGTGAACTTACTAATATTACTTGGGGAAGAATAATTTGAACCAACAATTATATCTGTGTT[TC] GAAGAAACGAATTCAGTGCCATTCTCCAGAGCTAGGGCAGTAAGATTGAACTCTTCTTCTTCCTGATTCAATGATGAGTTTCGGAATGACCTGATTCCTA ctg15944 11 F5
4689 I A GGGTCAAAATAACACAAGGAGAGAAAAATGAGAATGAAATATTTAGTAAACTA
4689 P T A CGCGCCGAGGTTTGTTTTTCTAAAGCAATTTGACY
4689 P C A ATGACGTGGCAGACCTTGTTTTTCTAAAGCAATTTGACY
4689 T T A CAATGTCAAATTGCTTTAGAAAAACAAAAGTTTACTAAATATTTCATTCTCATTTTTCTCTCCTTGTGTTATTTTGACCCAG
4689 T C A CAATGTCAAATTGCTTTAGAAAAACAAGAGTTTACTAAATATTTCATTCTCATTTTTCTCTCCTTGTGTTATTTTGACCCAG
4689 IS [TC] TCAAGTATGGGCTGTGGACCACTGCTTGTCTGTGACCTATTGATTACTGGGTCAAAATAACACAAGGAGAGAAAAATGAGAATGAAATATTTAGTAAACT[TC] TTGTTTTTCTAAAGCAATTTGACATTGCTGTGACTCTAAGCACATGACCAGTGCGTTCATCTCGCTTAACAGAATAAAAAACAAAAGTGTTGCTTAGTGG
4866 I A CTTGTCTTTGGGGAAAATGGGACCAAGAGGTCCC ctg22fin4 22

FIGURE 129E

4866 P	T	A	CGCGCCGAGGTGGATAACCTTGGACAGAY			
4866 P	A	A	ATGACGTGGCAGACAGGATAACCTTGGACAGAY			
4866 T	T	A	CTTGTCTGTCCAAGGTTATCCAGGACCTCTTGGTCCCATTTTCCCCAAAGACAAGCA			
4866 T	A	A	CTTGTCTGTCCAAGGTTATCCTGGACCTCTTGGTCCCATTTTCCCCAAAGACAAGCA			
4866 IS	[TA]		AGAGAGAGGTGCCCAGTGGTCAGTATGCTTGTCTTTGGGGAAAATGGGACCAAGAGGTCC[TA]GGATAACCTTGGACAGACAAGGTTTGCAGAGAGAGAAG TTGGCAAGTGCAGGCTCCTGGG			
4924 I		A	CCAGAGCTCGCTTTACCCCGGGGAATGT			
4924 P	C	A	ATGACGTGGCAGACCAGGTCGGGGCAG			
4924 P	A	A	CGCGCCGAGGAAGGTCGGGGCAG			
4924 T	C	A	CCTACTGCCCCGACCTGCATTCCCCGGGGTAAAGCGAGCTCTGGAG			
4924 T	A	A	CCTACTGCCCCGACCTTCATTCCCCGGGGTAAAGCGAGCTCTGGAG			
4924 IS	[CA]		GACCCAGGACACTACAGTTTCTCTATGCGATCTCCAGAGCTCGCTTTACCCCGGGGAATG[CA]AGGTCGGGGCAGTAGGGAAGCCCCTAGGGATGCAGGG AGGCGGGCGCTGAGGAGTGGAGG			
4948 I		A	ACAAGACAAAGGGCAGAGCTCATTCTGACCCATA	MULTIPLE	MULTIPLE	
4948 P	C	A	ATGACGTGGCAGACCCCTTCCCATCTCTTATCC			
4948 P	T	A	CGCGCCGAGGTCCTTCCCATCTCTTATCC			
4948 T	C	A	TCAGGGATAAGAGATGGGAAGGGATGGGTCAGAATGAGCTCTGCCCTTTGTCTTGTGG			
4948 T	T	A	TCAGGGATAAGAGATGGGAAGGAATGGGTCAGAATGAGCTCTGCCCTTTGTCTTGTGG			
4948 IS	[CT]		TATTGAGTTTCTGTTACTATGGGCCCCACAAGACAAAGGGCAGAGCTCATTCTGACCCAT[CT]CCTTCCCATCTCTTATCCCTGATGTCACTACTGAGCTGG GAATCACAGGAGACTAGAGCA			
4965 I		A	ACTTCTTTGCCAGCATTGATTTTTCTGAAAGAAAAGGTTTTTTCTGACTCTATTTATCA	MULTIPLE	22	
4965 P	T	A	CGCGCCGAGGTATAGTGTTCTGTTCTACAGTAGT			
4965 P	C	A	ATGACGTGGCAGACCATAGTGTTCTGTTCTACAGTAG			
4965 T	T	A	AAGAACTACTGTAGAACAGAACACTATAGATAAATAGAGTCAGAAAAAACCTTTTCTTTCAGAAAAATCAATGCTGGCAAAGAAGTCT			
4965 T	C	A	AAGAACTACTGTAGAACAGAACACTATGGATAAATAGAGTCAGAAAAAACCTTTTCTTTCAGAAAAATCAATGCTGGCAAAGAAGTCT			
4965 IS	[TC]		AGACTTCTTTGCCAGCATTGATTTTTCTGAAAGAAAAGGTTTTTTCTGACTCTATTTATC[TC]ATAGTGTTCTGTTCTACAGTAGTTCTTTCAGATGCTAATGAG ATGTTTCATGGAAAAAAG			
5040 I		S	GCCTCCACTCAATACCATGTTATACACCCTCTTGT	MULTIPLE	MULTIPLE	
5040 P	G	S	CGCGCCGAGGCCTACTGTCAAAGGAGTTTG			
5040 P	C	S	ATGACGTGGCAGACGCTACTGTCAAAGGAGTTT			
5040 T	G	S	TCAACAAACTCCTTTGACAGTAGGCAAGAGGGTGTATAACATGGTATTGAGTGGAGGCAG			
5040 T	C	S	TCAACAAACTCCTTTGACAGTAGCCAAGAGGGTGTATAACATGGTATTGAGTGGAGGCAG			
5040 IS	[GC]		GGAGAATGGTATTCTTTCTCAGGTAAAGAAACTATCTTCAACAAACTCCTTTGACAGTAG[GC]CAAGAGGGTGTATAACATGGTATTGAGTGGAGGCAGAAA TATTAACCTAAACCAGAGCTA			
5044 I		A	GCTTCATCTAAGTTTCACAACACTGCTCTCATGTCCAGAAAA	ctg22fin4	22	
5044 P	C	A	ATGACGTGGCAGACCGCAACTTTACTTCTCACG			
5044 P	T	A	CGCGCCGAGGTGCAACTTTACTTCTCACG			
5044 T	C	A	AGCACGTGAGAAGTAAAGTTGCGTTTCTGGACATGAGAGCAGTGTTGTGAAACTTAGATGAAGCAT			
5044 T	T	A	AGCACGTGAGAAGTAAAGTTGCATTTCTGGACATGAGAGCAGTGTTGTGAAACTTAGATGAAGCAT			
5044 IS	[CT]		CTCGCTGCCTTCTCTATATGCTTCATCTAAGTTTCACAACACTGCTCTCATGTCCAGAAA[CT]GCAACTTTACTTCTCACGTGCTCCTTTTATTTATTTATTTTT TAAACACTACTCAAATGC	ctg22fin4	22	
5064 I		A	GGCTGGGCGGTTTCCGCTCCCA			
5064 P	C	A	ATGACGTGGCAGACCGAGTGGGATTAATAGTGC			
5064 P	T	A	CGCGCCGAGGTGAGTGGGATTAATAGTGC			
5064 T	C	A	AGCCGCACTATTAATCCCACTCGGGGAGCGGAAACCGCCCAGCCCT			
5064 T	T	A	AGCCGCACTATTAATCCCACTCAGGGAGCGGAAACCGCCCAGCCCT			
5064 IS	[CT]		GTGCGCTGCAGGTAAGACAAAGGCCTGGAGCCGGGGGAGGGCTGGGCGGTTTCCGCTCCC[CT]GAGTGGGATTAATAGTGCGGCTCTCGTCCTCAACAG GAGGCTAGCGAAGCGTACCTGGTG	ctg22fin4	22	
5088 I		S	ATCACGGGGCACCCACTGGGCT			
5088 P	C	S	ATGACGTGGCAGACGTGAGGCAGAGCCC			
5088 P	T	S	CGCGCCGAGGATGAGGCAGAGCCC			
5088 T	C	S	CCGCGGGCTCTGCCTCACGCCCAGTGGGTGCCCCGTGATGT			
5088 T	T	S	CCGCGGGCTCTGCCTCATGCCCAGTGGGTGCCCCGTGATGT			
5088 IS	[CT]		CGGGCGAGGGTGGCCTGTGGGCAGGGCTGGAGCTGCCCCACAGCCGCGGGCTCTGCCTCA[CT]GCCCAGTGGGTGCCCCGTGATGTGGCAGGGCTGGC CTTGAGTTTCCTGCTTCTCACGAGC	ctg22fin4	22	
5110 I		A	GCGGGTGGCCAGGCCTGCA			
5110 P	C	A	ATGACGTGGCAGACCCGCCTCATTCGTAC			
5110 P	T	A	CGCGCCGAGGTCGCCTCATTCGTACC			
5110 T	C	A	GGCAGGTACGAATGAGGCGGGCAGGCCTGGCCACCCGCTC			
5110 T	T	A	GGCAGGTACGAATGAGGCGAGCAGGCCTGGCCACCCGCTC			
5110 IS	[CT]		GCACCCTTGATATTTCTTGATTGGTGTTGTGGGGAGGCCGGAGCGGGTGGCCAGGCCTGC[CT]CGCCTCATTCGTACCTGCCCGCCTCCATTGAGCTTGT TGGTCAGCTTCACTTTGCTGAAG	ctg22fin7	22	
5113 I		S	CTCTGATTTGGTACAATTCTTATCTTTAAGTATTTGGTTCTTAACCTAGTATGTT			
5113 P	T	S	CGCGCCGAGGATAAGAATCGCTTAGGAAGAAG			
5113 P	C	S	ATGACGTGGCAGACGTAAGAATCGCTTAGGAAGAA			
5113 T	T	S	TTATCTTCTTCCTAAGCGATTCTTATACATACTAGGTTAAGAACCAAATACTTAAAGATAAGAATTGTACCAAATCAGAGCA			
5113 T	C	S	TTATCTTCTTCCTAAGCGATTCTTACACATACTAGGTTAAGAACCAAATACTTAAAGATAAGAATTGTACCAAATCAGAGCA			
5113 IS	[TC]		AGAAACTCCGTGTGTGAGGCTAAAAAGTTGCATTTTTATCTTCTTCCTAAGCGATTCTTA[TC]ACATACTAGGTTAAGAACCAAATACTTAAAGATAAGAATTG TACCAAATCAGAGCACTTC			
5116 I		S	GAGGACAGCCTGTCCTTTCCTAAATACTCACCCACT			
5116 P	C	S	ATGACGTGGCAGACGAAAGCACAGCCACC			
5116 P	T	S	CGCGCCGAGGAAAAGCACAGCCACC			
5116 T	C	S	GCTCGGTGGCTGTGCTTTCGTGGGTGAGTATTTAGGAAAGGACAGGCTGTCCTCAG			
5116 T	T	S	GCTCGGTGGCTGTGCTTTTGTGGGTGAGTATTTAGGAAAGGACAGGCTGTCCTCAG			
5116 IS	[CT]		GAGCAGCAGTCACGCACACGGATGCTCTGGGCCAGGTAGCCTGCTCGGTGGCTGTGCTTT[CT]GTGGGTGAGTATTTAGGAAAGGACAGGCTGTCCTCAG TGAAGGGTTGTCCTCACTTCAGG			
5128 I		S	CCTTGGGGACCTGTTGATTAATTGAGTGGCCCA			
5128 P	A	S	CGCGCCGAGGTGCCTGCCCCCA			
5128 P	G	S	ATGACGTGGCAGACCGCCTGCCCCC			
5128 T	A	S	CTGCTGGGGGCAGGCAGGGCCACTCAATTAATCAACAGGTCCCCAAGGTC			
5128 T	G	S	CTGCTGGGGGCAGGCGGGGCCACTCAATTAATCAACAGGTCCCCAAGGTC			
5128 IS	[AG]		GAGGGGCTGTCAGCCTGTCTGTGAGGAGGTAGAGTCGGGGGCAGGCTGCTGGGGGCAGGC[AG]GGGCCACTCAATTAATCAACAGGTCCCCAAGGTCGT AGGAGTCGAAGAGATCGCTGATGC			
5129 I		S	GCCCAGGGTTTGAGCTTGCACCCATGT			
5129 P	C	S	ATGACGTGGCAGACGATGGCAGCAGCCA			
5129 P	T	S	CGCGCCGAGGAATGGCAGCAGCCA			
5129 T	C	S	CACGTGGCTGCTGCCATCCATGGGTGCAAGCTCAAACCCTGGGCTG			
5129 T	T	S	CACGTGGCTGCTGCCATTCATGGGTGCAAGCTCAAACCCTGGGCTG			
5129 IS	[CT]		TCTGGGCAGCTGGACACTTACACTTAGTGTGTATGGACAGACGCACGTGGCTGCTGCCAT[CT]CATGGGTGCAAGCTCAAACCCTGGGCTGGCACTGAGA CCAACTCCATCTGGCCTAACTAA			
5149 I		A	GTTTCAGCTCCAACAAATCTCAATCTTACCTTCCTTTCAGGATGT	ctg28098	3	
5149 P	A	A	CGCGCCGAGGAGATTCATAAGAGCCCTTG			
5149 P	G	A	ATGACGTGGCAGACGGATTCATAAGAGCCCTTG			
5149 T	A	A	ACACCAAGGGCTCTTATGAATCTCATCCTGAAAGGAAGGTAAGATTGAGATTTGTTGGAGCTGAAACCT			
5149 T	G	A	ACACCAAGGGCTCTTATGAATCCCATCCTGAAAGGAAGGTAAGATTGAGATTTGTTGGAGCTGAAACCT			
5149 IS	[AG]		TCCCTCTCATACTGAGGTTTCAGCTCCAACAAATCTCAATCTTACCTTCCTTTCAGGATG[AG]GATTCATAAGAGCCCTTGGTGTCTGGAAGCACCAACTGAA CGCAGGCCTTGGATGATGAA			

FIGURE 129E

5153 I		A	CTCCAGTCACTTTTCCTTTAAAGAAAGAGCTCCCTTCATGCT			
5153 P	A	A	CGCGCCGAGGAATTAAAGTATGACTGATTTTACTGG			
5153 P	G	A	ATGACGTGGCAGACGATTAAAGTATGACTGATTTTACTGG			
5153 T	A	A	AATTCCAGTAAAATCAGTCATACTTTAATTGCATGAAGGGAGCTCTTTCTTTAAAGGAAAAGTGACTGGAGAA			
5153 T	G	A	AATTCCAGTAAAATCAGTCATACTTTAATCGCATGAAGGGAGCTCTTTCTTTAAAGGAAAAGTGACTGGAGAA			
5153 IS	[AG]		AAGTCGCAGCTACCATCTTCTCCAGTCACTTTTCCTTTAAAGAAAGAGCTCCCTTCATGC[AG]ATTAAAGTATGACTGATTTTACTGGAATTGGATGTACAGTT ATTTGGGGGCCATTTATCT	ctg15131	10	
5159 I		A	GCTAAGTTCCTGATGTTGCCCACCAGGCTC			
5159 P	T	A	CGCGCCGAGGTTTGCTCTGAGCAGC			
5159 P	A	A	ATGACGTGGCAGACATTGCTCTGAGCAGC			
5159 T	T	A	CAGCGCTGCTCAGAGCAAAAGCCTGGTGGGCAACATCAGGAACTTAGCAA			
5159 T	A	A	CAGCGCTGCTCAGAGCAATAGCCTGGTGGGCAACATCAGGAACTTAGCAA			
5159 IS	[TA]		TAGGGAGCTGGAGACAGCAGAGCCTGGGGTTGCTAAGTTCCTGATGTTGCCCACCAGGCT[TA]TTGCTCTGAGCAGCGCTGCCTCCCAGCTTTCTGGAAC CTTCTGGGACGCCTGGGGTGCAT	ctg13446	1	
5160 I		S	CCAGACACTGCTGTGGGGACTTTACTGCTGTAAAA			
5160 P	G	S	ATGACGTGGCAGACCTCACTCAAGCCTTATAAGTC			
5160 P	A	S	CGCGCCGAGGTTCACTCAAGCCTTATAAGTC			
5160 T	G	S	CTTAGACTTATAAGGCTTGAGTGAGTTTACAGCAGTAAAGTCCCCACAGCAGTGTCTGGCA			
5160 T	A	S	CTTAGACTTATAAGGCTTGAGTGAATTTACAGCAGTAAAGTCCCCACAGCAGTGTCTGGCA			
5160 IS	[GA]		CTATCTGTAAAATAGGGATAATAATGGTACCTATATCTTAGACTTATAAGGCTTGAGTGA[GA]TTTACAGCAGTAAAGTCCCCACAGCAGTGTCTGGCACAGA GGAAGCCCTCAAACATTCAC	ctg13446	1	
5161 I		A	ACTGCCCCACTTCCATGCTGAAGCCAA			
5161 P	C	A	ATGACGTGGCAGACCGCTTGTTCATCTGCA			
5161 P	T	A	CGCGCCGAGGTGCTTGTTCATCTGCAAT			
5161 T	C	A	TGGAATTGCAGATGAACAAGCGTGGCTTCAGCATGGAAGTGGGGCAGTAT			
5161 T	T	A	TGGAATTGCAGATGAACAAGCATGGCTTCAGCATGGAAGTGGGGCAGTAT			
5161 IS	[CT]		AGGAGAGAGATTGAGGGGCAATTAACAAAGATATACTGCCCCACTTCCATGCTGAAGCCA[CT]GCTTGTTCATCTGCAATTCCAAAACTTTGGATGGGTGCA TAACAACCTGTGAATGAAGCA	ctg13980	1	
5162 I		S	GTCAATCCCTGGATTTTTATTGAAACCATTGGAGAAGAGCCATA			
5162 P	G	S	ATGACGTGGCAGACCTCAAATAAATCTGCCAAGTATCY			
5162 P	A	S	CGCGCCGAGGTTCAAATAAATCTGCCAAGTATCY			
5162 T	G	S	CTAGGATACTTGGCAGATTTATTTGAGATGGCTCTTCTCCAATGGTTTCAATAAAAATCCAGGGATTGACGC			
5162 T	A	S	CTAGGATACTTGGCAGATTTATTTGAAATGGCTCTTCTCCAATGGTTTCAATAAAAATCCAGGGATTGACGC			
5162 IS	[GA]		AATGCCCAAAAACTACACAGTGAGTTGCAAAGAGCTAGGATACTTGGCAGATTTATTTGA[GA]ATGGCTCTTCTCCAATGGTTTCAATAAAAATCCAGGGATT GACGCTTCACTGGTAATCCG	ctg19	19	
5165 I		S	CATGCGGTCAGCCCCAAGGTGGGT			
5165 P	G	S	ATGACGTGGCAGACCGTGACCACCCTCAG			
5165 P	T	S	CGCGCCGAGGAGTGACCACCCTCAG			
5165 T	G	S	AGAGCTGAGGGTGGTCACGCCCACCTTGGGGCTGACCGCATGGT			
5165 T	T	S	AGAGCTGAGGGTGGTCACTCCCACCTTGGGGCTGACCGCATGGT			
5165 IS	[GT]		AGCATTACCGGCCAGCTCTCGTCTTAAATTCAGACACTTGCGAGAGCTGAGGGTGGTCAC[GT]CCCACCTTGGGGCTGACCGCATGGTAAGCAGGTGAGG CTGCTCTGCTGGCCAGGGGCCTC	ctg15907	6	
5170 I		A	GCCCAGTGGCCTTCCCTCCCATGA			
5170 P	C	A	ATGACGTGGCAGACCTGGGCCCGCAT			
5170 P	T	A	CGCGCCGAGGTTGGGCCCGCAT			
5170 T	C	A	GTCCATGCGGGCCCAGCATGGGAGGGAAGGCCACTGGGCTT			
5170 T	T	A	GTCCATGCGGGCCCAACATGGGAGGGAAGGCCACTGGGCTT			
5170 IS	[CT]		CATGCGGTGAGTGGGGAAGGGGGGAGCTTGGGGTGAAGCCCAGTGGCCTTCCCTCCCATG[CT]TGGGCCCGCATGGACCAGTCCCCTCCTTGCCCTGGG TCTGGGGTCATGCCCTGCTTGGGC	ctg18037	7	
5195 I		S	GGTCCCTGGGAAGGGGGCCTGAATT			
5195 P	T	S	CGCGCCGAGGAAAGAGATCCCCAAAGTTTG			
5195 P	C	S	ATGACGTGGCAGACGAAGAGATCCCCAAAGTTT			
5195 T	T	S	TCCCCAAACTTTGGGGATCTCTTTATTCAGGCCCCCTTCCCAGGGACCCC			
5195 T	C	S	TCCCCAAACTTTGGGGATCTCTTCATTCAGGCCCCCTTCCCAGGGACCCC			
5195 IS	[TC]		CCTCTCCACAGACACCAACCACCAGTCCCCTAGAAAATCCCCAAACTTTGGGGATCTCTT[TC]ATTCAGGCCCCCTTCCCAGGGACCCCACTACATTCAGTG CTCACCCTCAGGGTCCCCCAA	MULTIPLE	MULTIPLE	
5202 I		A	CTTGAGGCCAGTAGTTCTAGACCAGCCTGACCT			
5202 P	G	A	ATGACGTGGCAGACGCTATGATGAAACCCCATC			
5202 P	A	A	CGCGCCGAGGACTATGATGAAACCCCATC			
5202 T	G	A	TAGAGATGGGGTTTCATCATAGCGGTCAGGCTGGTCTAGAACTACTGGCCTCAAGTG			
5202 T	A	A	TAGAGATGGGGTTTCATCATAGTGGTCAGGCTGGTCTAGAACTACTGGCCTCAAGTG			
5202 IS	[GA]		ACTTTGGGAGGCCAAGGCAGGCAGATCACTTGAGGCCAGTAGTTCTAGACCAGCCTGACC[GA]CTATGATGAAACCCCATCTCTACTAGAAATACAAAAATT AGCCAGGCGTGGTGGTGTGCA	ctg16105	5	
5206 I		A	GCTTGGCTTACAGGGAGCTGCCAATCCT			
5206 P	G	A	ATGACGTGGCAGACGTGATAACCACCAAGCAC			
5206 P	A	A	CGCGCCGAGGATGATAACCACCAAGCAC			
5206 T	G	A	AAACGTGCTTGGTGGTTATCACGGATTGGCAGCTCCCTGTAAGCCAAGCCT			
5206 T	A	A	AAACGTGCTTGGTGGTTATCATGGATTGGCAGCTCCCTGTAAGCCAAGCCT			
5206 IS	[GA]		GGAAATTAACACATATAAAATATTTGGCATGAGGCTTGGCTTACAGGGAGCTGCCAATCC[GA]TGATAACCACCAAGCACGTTTGCCCCTTGGGTAAGACCA GGGTGTGTGTCCTCATCCCTG	ctg16105	5	
5208 I		A	TCCAAGTTAGCCCTCAGGCCTACCTAGGTTAAATCATT			
5208 P	A	A	CGCGCCGAGGATAAAGGTGCCAGGCA			
5208 P	G	A	ATGACGTGGCAGACGTAAAGGTGCCAGGC			
5208 T	A	A	TGACTGCCTGGCACCTTTATATGATTTAACCTAGGTAGGCCTGAGGGCTAACTTGGATA			
5208 T	G	A	TGACTGCCTGGCACCTTTACATGATTTAACCTAGGTAGGCCTGAGGGCTAACTTGGATA			
5208 IS	[AG]		TCCAGCAAATCGTTCTCCCTCTATCCAAGTTAGCCCTCAGGCCTACCTAGGTTAAATCAT[AG]TAAAGGTGCCAGGCAGTCATTCTGCAGACTGTCTTACCAT ATTTGGGCCTCAGTTCCATT	ctg16105	5	
5220 I		S	GCAGTAAAAGAAGCCTGGCCTTTGGAGTCAGAAA			
5220 P	G	S	ATGACGTGGCAGACCAGCAGGGTGACTTG			
5220 P	A	S	CGCGCCGAGGTAGCAGGGTGACTTGG			
5220 T	G	S	GACCCCAAGTCACCCTGCTGTTCTGACTCCAAAGGCCAGGCTTCTTTTACTGCAC			
5220 T	A	S	GACCCCAAGTCACCCTGCTATTCTGACTCCAAAGGCCAGGCTTCTTTTACTGCAC			
5220 IS	[GA]		ATCCTCATCTTACAGAGAAGGAAATGGGGTGCTCTGGGTCTGACCCCAAGTCACCCTGCT[GA]TTCTGACTCCAAAGGCCAGGCTTCTTTTACTGCACCATG ATGTTCTTATCTATATACAGC	ctg16105	5	
5222 I		A	CCATAAAAGCCTCCAAGCCACGTGTAGATGTGAGAA			
5222 P	C	A	ATGACGTGGCAGACCACATTTGACAGAACATTTCAA			
5222 P	T	A	CGCGCCGAGGTACATTTGACAGAACATTTCAAC			
5222 T	C	A	ATGAGTTGAAATGTTCTGTCAAATGTGTCTCACATCTACACGTGGCTTGGAGGCTTTTATGGGG			
5222 T	T	A	ATGAGTTGAAATGTTCTGTCAAATGTATCTCACATCTACACGTGGCTTGGAGGCTTTTATGGGG			
5222 IS	[CT]		ATTTCTTTTCTACCTGGACAGGGCCCCATAAAAGCCTCCAAGCCACGTGTAGATGTGAGA[CT]ACATTTGACAGAACATTTCAACTCATAGCTTATAATGATG CCATTTCTCCAGCTGTGCAA	ctg16105	5	TGFBI
5257 I		A	CAGATCCCGCCCCAACAATGCTCCACA			
5257 P	C	A	ATGACGTGGCAGACCCACTCTGGTTGTTCC			
5257 P	T	A	CGCGCCGAGGTCACTCTGGTTGTTCCG			
5257 T	C	A	GACGCGGAACAACCAGAGTGGGTGGAGCATTGTTGGGGCGGGATCTGGG			
5257 T	T	A	GACGCGGAACAACCAGAGTGAGTGGAGCATTGTTGGGGCGGGATCTGGG			
5257 IS	[CT]		TCCCAGCTCCGCCTAAATGCTATTCCAAGATGCCCAGATCCCGCCCCAACAATGCTCCAC[CT]CACTCTGGTTGTTCCGCGTCTAGGGTCCCACCCTCAACC TCCCGTAGATACAGGCGAGGG	ctg2712	15	
5276 I		A	GGGAAGCTGGTACCAACAGCCCCAGATT			

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FIGURE 129E

5276 P	G	A	ATGACGTGGCAGACGCCTCCCCGAAAGG			
5276 P	A	A	CGCGCCGAGGACCTCCCCGAAAGG			
5276 T	G	A	TTCCCCTTTCGGGGAGGCATCTGGGGCTGTTGGTACCAGCTTCCCTC			
5276 T	A	A	TTCCCCTTTCGGGGAGGTATCTGGGGCTGTTGGTACCAGCTTCCCTC			
5276 IS	[GA]		TTCTCTCCTCCAGGAGCAGAACCCTGCTGGAGAGGGAAGCTGGTACCAACAGCCCCAGAT[GA]CCTCCCCGAAAGGGGAAGGACCCCAAAGGAGTGGGCC ACTCACGGACTCATGGCGGTAAA			
5361 I		A	GGGTGCTTGTTGGCTGGGGTGATGTC			
5361 P	A	A	CGCGCCGAGGACCTCCAGAAGCTACAG			
5361 P	T	A	ATGACGTGGCAGACTCCTCCAGAAGCTACAG			
5361 T	A	A	TCAGCTGTAGCTTCTGGAGGTACATCACCCCAGCCAACAAGCACCCAA			
5361 T	T	A	TCAGCTGTAGCTTCTGGAGGAACATCACCCCAGCCAACAAGCACCCAA			
5361 IS	[AT]		TGACATGAGCGGGGTAGGTATTCCCCCAGAGTTTTGGGTGCTTGTTGGCTGGGGTGATGT[AT]CCTCCAGAAGCTACAGCTGACATTATCAGTGAGGATAT TGCTTCAGAGTCCGTGCCTGAC	ctg13284	10	
5362 I		S	GTTGGAAGCTCTAACCAGGGAGCTTGGCTGA			
5362 P	G	S	ATGACGTGGCAGACCCATATGTTGCCCTTGC			
5362 P	A	S	CGCGCCGAGGTCATATGTTGCCCTTGC			
5362 T	G	S	TCCTGCAAGGGCAACATATGGCAGCCAAGCTCCCTGGTTAGAGCTTCCAACAA			
5362 T	A	S	TCCTGCAAGGGCAACATATGACAGCCAAGCTCCCTGGTTAGAGCTTCCAACAA			
5362 IS	[GA]		TCCCAGAGGAGGACTTCCGGAGGAGATGGAGGAATGTTCTTCCTGCAAGGGCAACATATG[GA]CAGCCAAGCTCCCTGGTTAGAGCTTCCAACAACCTCTC GGTGCCCAGTTATGGGGGATTT	ctg15749	X	
5369 I		S	GCTCCCCCGGGCCTGCGA			
5369 P	G	S	ATGACGTGGCAGACCGTCGGGAAGAGGGY			
5369 P	A	S	CGCGCCGAGGTGTCGGGAAGAGGGY			
5369 T	G	S	TGTGCCCTCTTCCCGACGCGCAGGCCCGGGGGAGCCC			
5369 T	A	S	TGTGCCCTCTTCCCGACACGCAGGCCCGGGGGAGCCC			
5369 IS	[GA]		GGGGGAGTCGAGGTAGGGGTCCCAACTGTCCCCCAGGTATCGGTGTGCCCTCTTCCCGAC[GA]CGCAGGCCCGGGGGAGCCCCGGACCCCGCATCCCC CAGGGCGCGGAAACTGGCGAGGCCC	ctg14583	1	
5377 I		S	GCTCAATTTCAAACTGCCTGTGATCCACTCGGTCT			
5377 P	C	S	ATGACGTGGCAGACGAGGAAGGCTTTCCGTY			
5377 P	T	S	CGCGCCGAGGAAGGAAGGCTTTCCGTY			
5377 T	C	S	TTGAACGGAAAGCCTTCCTCGACCGAGTGGATCACAGGCAGTTTGAAATTGAGCGA			
5377 T	T	S	TTGAACGGAAAGCCTTCCTTGACCGAGTGGATCACAGGCAGTTTGAAATTGAGCGA			
5377 IS	[CT]		TGGATTCTACTGACAAACACTGTTTTCATCTTCTAGGTACATTGAACGGAAAGCCTTCCT[CT]GACCGAGTGGATCACAGGCAGTTTGAAATTGAGCGAGAT CTCAGGCTGAGCAAAATGAAA	ctg14583	1	
5379 I		A	GATTCAGGAAGGTGAGTGCTAGAAACAGAACCAAGACTAAGAAA			
5379 P	C	A	ATGACGTGGCAGACCCCATCATGGCCTCC			
5379 P	T	A	CGCGCCGAGGTCCATCATGGCCTCC			
5379 T	C	A	GAAGGGAGGCCATGATGGGTTCTTAGTCTTGGTTCTGTTTCTAGCACTCACCTTCCTGAATCTG			
5379 T	T	A	GAAGGGAGGCCATGATGGATTCTTAGTCTTGGTTCTGTTTCTAGCACTCACCTTCCTGAATCTG			
5379 IS	[CT]		GAAGAGGGGACAGTGCAGATTCAGGAAGGTGAGTGCTAGAAACAGAACCAAGACTAAGAA[CT]CCATCATGGCCTCCCTTCCTTCCCCACCAGACCATCTC CTGTCATCCTCCTCCTTCCGT	ctg14583	1	
5381 I		S	CTCGCACAGTAATACACAGCCGTGTCCTCGC			
5381 P	C	S	ATGACGTGGCAGACGCTCTCAGGCTGTTCA			
5381 P	A	S	CGCGCCGAGGTCTCTCAGGCTGTTCATT			
5381 T	C	S	TGCAAATGAACAGCCTGAGAGCCGAGGACACGGCTGTGTATTACTGTGCGAGAG			
5381 T	A	S	TGCAAATGAACAGCCTGAGAGACGAGGACACGGCTGTGTATTACTGTGCGAGAG			
5381 IS	[CA]		TCACCATCTCCAGAGACAACGCCAAGAACTCACTGTATCTGCAAATGAACAGCCTGAGAG[CA]CGAGGACACGGCTGTGTATTACTGTGCGAGAGACACAG TGAGGGGAGGTCAGTGTGAGCC	ctg16775	19	
5399 I		A	CTCTTGGTCAAGTTCTCCTTGCCCAGTGATACAATACAA			
5399 P	T	A	CGCGCCGAGGTACTATTTGTTCCCAGGCTY			
5399 P	C	A	ATGACGTGGCAGACCACTATTTGTTCCCAGGCY			
5399 T	T	A	AAATAGCCTGGGAACAAATAGTATGTATTGTATCACTGGGCAAGGAGAACTTGACCAAGAGGT			
5399 T	C	A	AAATAGCCTGGGAACAAATAGTGTGTATTGTATCACTGGGCAAGGAGAACTTGACCAAGAGGT			
5399 IS	[TC]		CTACCCTACCTGCTGGAACCACCTCTTGGTCAAGTTCTCCTTGCCCAGTGATACAATACA[TC]ACTATTTGTTCCCAGGCTATTTCGTTCCCCAACTGGTCCA AGGGTCTGAGGGTAAGAAAC			
5416 I		A	CAACCTCTGCCTCCCGGGTTCAAGCT			
5416 P	G	A	ATGACGTGGCAGACGATTCTCTTGCCTCAGC			
5416 P	A	A	CGCGCCGAGGAATTCTCTTGCCTCAGC			
5416 T	G	A	GGAGGCTGAGGCAAGAGAATCGCTTGAACCCGGGAGGCAGAGGTTGCA			
5416 T	A	A	GGAGGCTGAGGCAAGAGAATTGCTTGAACCCGGGAGGCAGAGGTTGCA			
5416 IS	[GA]		AAGCTGGAGTGCAGGGGCACGATCTCGGCTCACTGCAACCTCTGCCTCCCGGGTTCAAGC[GA]ATTCTCTTGCCTCAGCCTCCGAGTAGCTGGGGTTAC AGGCACCCGCCACCACACCCAGC			
5438 I		S	CAGTGCATTATGGAACTTTTTAACCTTTTATGGAAACTTTACAAAACCAGCAA			
5438 P	A	S	CGCGCCGAGGTAAAATGGAAGAGTCAAGTTTCT			
5438 P	G	S	ATGACGTGGCAGACCAAAATGGAAGAGTCAAGTTTC			
5438 T	A	S	TAATAGAAACTTGACTCTTCCATTTTATGCTGGTTTTGTAAAGTTTCCATAAAAGGTTAAAAAGTTCCATAATGCACTGTT			
5438 T	G	S	TAATAGAAACTTGACTCTTCCATTTTGTGCTGGTTTTGTAAAGTTTCCATAAAAGGTTAAAAAGTTCCATAATGCACTGTT			
5438 IS	[AG]		TTACTTAATATCTTTTGTAAATGCTTTATGTAAATAATAGAAACTTGACTCTTCCATTTT[AG]TGCTGGTTTTGTAAAGTTTCCATAAAAGGTTAAAAAGTTCCAT AATGCACTGTTTCCTTA	ctg2712	15	
5451 I		A	CAAACAGAATGGGGGCATGAACTTTTTTCCCCATAACTTA			
5451 P	C	A	ATGACGTGGCAGACCAATAAACAACAGTTTTAGCCT			
5451 P	T	A	CGCGCCGAGGTAATAAACAACAGTTTTAGCCTC			
5451 T	C	A	TACTGAGGCTAAAACTGTTGTTTATTGAAGTTATGGGGAAAAAAGTTCATGCCCCCATTCTGTTTGTT			
5451 T	T	A	TACTGAGGCTAAAACTGTTGTTTATTAAAGTTATGGGGAAAAAAGTTCATGCCCCCATTCTGTTTGTT			
5451 IS	[CT]		ACTCTTCAAATGAGGTTGGAACAAACAGAATGGGGGCATGAACTTTTTTCCCCATAACTT[CT]AATAAACAACAGTTTTAGCCTCAGTAGGCTTTATGCAAGC CTTCAACATCTTTTTCTAGG	ctg2712	15	
5516 I		S	GGCTGGTCTTAAACTCCTGGCCTTAAGCAACCA			
5516 P	G	S	ATGACGTGGCAGACCTCCTGCCTCAGCCY			
5516 P	A	S	CGCGCCGAGGTTCCTGCCTCAGCCY			
5516 T	G	S	GGGAGGCTGAGGCAGGAGGGTTGCTTAAGGCCAGGAGTTTAAGACCAGCCTA			
5516 T	A	S	GGGAGGCTGAGGCAGGAAGGTTGCTTAAGGCCAGGAGTTTAAGACCAGCCTA			
5516 IS	[GA]		GAAGGCCACGTGCAGTGGCTTACATCTGCAATCTCAGTGCTTTGGGAGGCTGAGGCAGGA[GA]GGTTGCTTAAGGCCAGGAGTTTAAGACCAGCCTAGGC AACATAGTGAGACTCCGTTTCTG	ctg2712	15	
5517 I		A	GTGTTCCTGTCCCCTGTAGTGTTTTTGTTATTAGACCCTTTTTA			
5517 P	T	A	CGCGCCGAGGTCTCCTTGGTTTAGGAATGY			
5517 P	C	A	ATGACGTGGCAGACCCTCCTTGGTTTAGGAATGY			
5517 T	T	A	CCCCCATTCCTAAACCAAGGAGAAAAAAGGGTCTAATAACAAAAACACTACAGGGGACAGGAACACGG			
5517 T	C	A	CCCCCATTCCTAAACCAAGGAGGAAAAAAGGGTCTAATAACAAAAACACTACAGGGGACAGGAACACGG			
5517 IS	[TC]		ATTTGACCCCCGGCTCCGTGTTCCTGTCCCCTGTAGTGTTTTTGTTATTAGACCCTTTTT[TC]CTCCTTGGTTTAGGAATGGGGGCCCCAGGGCCACCCTTG TCCAGGCTCCCTCTACCGTAG			
5536 I		A	CTGCACCACCCACTCCTGGTTGCCT			
5536 P	A	A	CGCGCCGAGGATTGAGCACCGTCTCGY			
5536 P	G	A	ATGACGTGGCAGACGTTGAGCACCGTCTCY			
5536 T	A	A	CGGGCGAGACGGTGCTCAATGGCAACCAGGAGTGGGTGGTGCAGGC			
5536 T	G	A	CGGGCGAGACGGTGCTCAACGGCAACCAGGAGTGGGTGGTGCAGGC			
5536 IS	[AG]		ACTCTGCCGGATGGCTGCGGTCAGCGGGAGGTCCGCCTGCACCACCCACTCCTGGTTGCC[AG]TTGAGCACCGTCTCGCCCGGCATGGCGAGGGAATGC CGCTTGGGGACGTCCTTGGTCAGC	ctg_na	NA	
5539 I		A	TTGACCGACCTCTGACCCAGAGCTT			
5539 P	A	A	CGCGCCGAGGAGCCCCTACTTCACCY			

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FIGURE 129E

5539 P	G	A	ATGACGTGGCAGACGGCCCCTACTTCACCY				
5539 T	A	A	TTAGGGTGAAGTAGGGGCTAGCTCTGGGTCAGAGGTCGGTCAATA				
5539 T	G	A	TTAGGGTGAAGTAGGGGCCAGCTCTGGGTCAGAGGTCGGTCAATA				
5539 IS	[AG]		TTCACCTGGGCTGAACCAGAGTGGGGAGGAATAATATTGACCGACCTCTGACCCAGAGCT[AG]GCCCCTACTTCACCCTAAAGGAGGCTTCCCACCACATA CTTACCTAGCCGATTCCGGGAC	ctg_na	NA	
5543 I		S	TCTGTCACACTGTGCCTAAGAACTCCAAACGGAAAGA				
5543 P	G	S	ATGACGTGGCAGACCGCCAAATGGCTGTTY				
5543 P	A	S	CGCGCCGAGGTGCCAAATGGCTGTTTAAY				
5543 T	G	S	CTTTTTAAACAGCCATTTGGCGCTTTCCGTTTGGAGTTCTTAGGCACAGTGTGACAGAGT				
5543 T	A	S	CTTTTTAAACAGCCATTTGGCACTTTCCGTTTGGAGTTCTTAGGCACAGTGTGACAGAGT				
5543 IS	[GA]		GGGTTCTATTCTGAAGGCTATTCAATTTGATTTGGGGCACTTTTTAAACAGCCATTTGGC[GA]CTTTCCGTTTGGAGTTCTTAGGCACAGTGTGACAGAGTCA GCTTGGTGAGCCCTTCCCCA	ctg_na	NA	SIATBC
5556 I		S	CCCAGTCCTGGCGGGCTCCAT				
5556 P	T	S	CGCGCCGAGGATGAAGCCCCATCACCY				
5556 P	G	S	ATGACGTGGCAGACCTGAAGCCCCATCACY				
5556 T	T	S	TGGGGGTGATGGGGCTTCATTGGAGCCCGCCAGGACTGGGGA				
5556 T	G	S	TGGGGGTGATGGGGCTTCAGTGGAGCCCGCCAGGACTGGGGA				
5556 IS	[TG]		TCCCAAACCTCGCCCCTTCTCCCTGCAGGCACTGGCAGAGCTGGGGGTGATGGGGCTTCA[TG]TGGAGCCCGCCAGGACTGGGGACACAAGCCTAGGCC TGTACCGTCTGCAGCCCCATCTCC	ctg15972	16	
5557 I		S	CAGAAGGAGCTCCAGGCTCCTCCCCT				
5557 P	T	S	CGCGCCGAGGATGTGGTTCACCCGCY				
5557 P	C	S	ATGACGTGGCAGACGTGTGGTTCACCCGY				
5557 T	T	S	GATGGCGGGTGAACCACATGGGGAGGAGCCTGGAGCTCCTTCTGCA				
5557 T	C	S	GATGGCGGGTGAACCACACGGGGAGGAGCCTGGAGCTCCTTCTGCA				
5557 IS	[TC]		GCGGAAGGTCTCGGGGAGTCGAAGGCAGAGGGGAAAGGACGGGATGGCGGGTGAACCACA[TC]GGGGAGGAGCCTGGAGCTCCTTCTGCATTTTCTTAG GAAGTGCTGCAGGGACCCACTGGA	ctg14840	6	
5598 I		S	GATGGCAGTACTGGGGTGAGGTGGAGAGAATTTTAATA				
5598 P	G	S	ATGACGTGGCAGACCTCTTGAAGCAAATTCATCACY				
5598 P	A	S	CGCGCCGAGGTTCTTGAAGCAAATTCATCACY				
5598 T	G	S	AGCAGTGATGAATTTGCTTCAAGAGATTAAAATTCTCTCCACCTCACCCCAGTACTGCCATCCC				
5598 T	A	S	AGCAGTGATGAATTTGCTTCAAGAAATTAAAATTCTCTCCACCTCACCCCAGTACTGCCATCCC				
5598 IS	[GA]		TTTTGGTAATAAGAGATTTATTTGGTTTTAATTATTAGCAGTGATGAATTTGCTTCAAGA[GA]ATTAAAATTCTCTCCACCTCACCCCAGTACTGCCATCCCTT CACCTAACACTCTCTCCCT	ctg14840	6	
5630 I		A	GCACCTCGGCATCCTGTGGCCAA				
5630 P	T	A	CGCGCCGAGGTGTCTCCATAGGTCCGY				
5630 P	C	A	ATGACGTGGCAGACCGTCTCCATAGGTCCGY				
5630 T	T	A	AGACCGGACCTATGGAGACATGGCCACAGGATGCCGAGGTGCAT				
5630 T	C	A	AGACCGGACCTATGGAGACGTGGCCACAGGATGCCGAGGTGCAT				
5630 IS	[TC]		GGCCCCCAGAGCCTCAGCGTCCCCCAGGCTTTGAGCATGCACCTCGGCATCCTGTGGCCA[TC]GTCTCCATAGGTCCGGTCTGGACACTGGCGGATGGCT GCAGCGCTGCACATCAGGCCACC	ctg14840	6	
5634 I		A	CATCGTCTCGTGGAAATCCTCACAGCACTGTGT				
5634 P	A	A	CGCGCCGAGGAAATAGGTACCATTTTTATGCCY				
5634 P	C	A	ATGACGTGGCAGACCAATAGGTACCATTTTTATGCCY				
5634 T	A	A	AACGGGCATAAAAATGGTACCTATTTCACAGTGCTGTGAGGATTTCCACGAGACGATGCT				
5634 T	C	A	AACGGGCATAAAAATGGTACCTATTGCACAGTGCTGTGAGGATTTCCACGAGACGATGCT				
5634 IS	[AC]		GACGGCGGTTATGCTAAGCCCTGGTGAGCATCGTCTCGTGGAAATCCTCACAGCACTGTG[AC]AATAGGTACCATTTTTATGCCCGTTTTATAAAAAGGGAA ACTTGGGCTCAGAGAAGTTAA	ctg3461	17	
5639 I		S	CCACCTCCTCACCTGGCAGACGAAAGGT				
5639 P	T	S	CGCGCCGAGGAAACTGGTTCCTCCCAY				
5639 P	C	S	ATGACGTGGCAGACGAACTGGTTCCTCCCAY				
5639 T	T	S	ACATTGGGAGGAACCAGTTTCCTTTCGTCTGCCAGGTGAGGAGGTGGTG				
5639 T	C	S	ACATTGGGAGGAACCAGTTCCCTTTCGTCTGCCAGGTGAGGAGGTGGTG				
5639 IS	[TC]		GGCTTTAGCTGCTGTCTTCCCCCTGGGGCTCGATGGTTACCACATTGGGAGGAACCAGTT[TC]CCTTTCGTCTGCCAGGTGAGGAGGTGGTGGGCAAATTC CTTACAGGATGTGACTCTCCCA	ctg14489	1	
5641 I		S	GGAGAAGGGGGACATCATGACATTTTGCAACGCA				
5641 P	G	S	ATGACGTGGCAGACCTCTAGCACTGCAAACAGY				
5641 P	A	S	CGCGCCGAGGTTCTAGCACTGCAAACAGY				
5641 T	G	S	ATCTCTGTTTGCAGTGCTAGAGGCGTTGCAAAATGTCATGATGTCCCCCTTCTCCGA				
5641 T	A	S	ATCTCTGTTTGCAGTGCTAGAAGCGTTGCAAAATGTCATGATGTCCCCCTTCTCCGA				
5641 IS	[GA]		GTTCATGGCACAGAGGAATTAATGAATAAATTACAGCTCATCTCTGTTTGCAGTGCTAGA[GA]GCGTTGCAAAATGTCATGATGTCCCCCTTCTCCGATTCCC CTTTCTGGATCTGGAGAAAA	ctg13297	17	
5653 I		S	GCAACTACTGAGAGCCCCAGACAAACCTGAAAAATGTAGA				
5653 P	A	S	CGCGCCGAGGTTCGTTTTTCTGGAAGTTTCY				
5653 P	G	S	ATGACGTGGCAGACCTCGTTTTTCTGGAAGTTTCY				
5653 T	A	S	TTATGAAACTTCCAGAAAAACGAACTACATTTTTCAGGTTTGTCTGGGGCTCTCAGTAGTTGCCC				
5653 T	G	S	TTATGAAACTTCCAGAAAAACGAGCTACATTTTTCAGGTTTGTCTGGGGCTCTCAGTAGTTGCCC				
5653 IS	[AG]		GGCAGGAATGGGCTATGTGAATGAAAAAAGGTATCCGTTATGAAACTTCCAGAAAAACGA[AG]CTACATTTTTCAGGTTTGTCTGGGGCTCTCAGTAGTTGC CCAAGGGACGGAGTTTAAACC	ctg22fin4	22	
5686 I		S	CTGGGCTCCCCCACTACGCACCTATT				
5686 P	G	S	CGCGCCGAGGCCTTGCACTCCTCTTCAY				
5686 P	C	S	ATGACGTGGCAGACGCTTGCACTCCTCTTCY				
5686 T	G	S	CTTCTGAAGAGGAGTGCAAGGATAGGTGCGTAGTGGGGGAGCCCAGGG				
5686 T	C	S	CTTCTGAAGAGGAGTGCAAGCATAGGTGCGTAGTGGGGGAGCCCAGGG				
5686 IS	[GC]		GACTCTCTTCTGCAGGTGCATGATGACGATCTTTTGTCTTCTTCTGAAGAGGAGTGCAAG[GC]ATAGGTGCGTAGTGGGGGAGCCCAGGGACGGGCTGGT TCTGGGTCCAGGCTCCTGGCCCA	ctg22fin4	22	
5687 I		S	CCCCTGTCCCTGAGGGCCAAAGTCAC				
5687 P	A	S	CGCGCCGAGGTGACTTTCTGCTCCCCY				
5687 P	C	S	ATGACGTGGCAGACGGACTTTCTGCTCCCCY				
5687 T	A	S	GGGAGGGGAGCAGAAAGTCATGACTTTGGCCCTCAGGGACAGGGGAC				
5687 T	C	S	GGGAGGGGAGCAGAAAGTCCTGACTTTGGCCCTCAGGGACAGGGGAC				
5687 IS	[AC]		TTCGTACTTGTTGCTGTGCTTACTGTTCTTCACGTGCTGTGGGGAGGGGAGCAGAAAGTC[AC]TGACTTTGGCCCTCAGGGACAGGGGACAGGAGTGGAC CAGGACCCAGGCTGTCAGTCAAC	ctg22fin4	22	
5698 I		A	CCTCCTATGGGTTGTCACCAAGCTAGGTGCTATTC				
5698 P	G	A	ATGACGTGGCAGACGGTCATCTGCTCCTGTY				
5698 P	T	A	CGCGCCGAGGTGTCATCTGCTCCTGTTY				
5698 T	G	A	TGTGAACAGGAGCAGATGACCAATAGCACCTAGCTTGGTGACAACCCATAGGAGGTA				
5698 T	T	A	TGTGAACAGGAGCAGATGACAAATAGCACCTAGCTTGGTGACAACCCATAGGAGGTA				
5698 IS	[GT]		GTGGCCCATGGCATTTTATAGGCATACCTCCTATGGGTTGTCACCAAGCTAGGTGCTATT[GT]GTCATCTGCTCCTGTTCACACCAGAGAACCAGGCTACAA GAGAAAAAGCAGAGGCCAAGA	ctg15907	6	CYP19
5725 I		S	TGCCTGCCTGCAATGTGTTTGTGCACATGA				
5725 P	G	S	ATGACGTGGCAGACCGTGCACATGTGTATGTY				
5725 P	A	S	CGCGCCGAGGTGTGCACATGTGTATGTGY				
5725 T	G	S	TATCCACATACACATGTGCACGCATGTGCACAAACACATTGCAGGCAGGCATG				
5725 T	A	S	TATCCACATACACATGTGCACACATGTGCACAAACACATTGCAGGCAGGCATG				
5725 IS	[GA]		CCTGGCCAGAGAAGCAACACACACGTGCACAGACATGTTTATCCACATACACATGTGCAC[GA]CATGTGCACAAACACATTGCAGGCAGGCATGTTGACGC CTCAGGCAGCGGAGGACCCTGA			USP6
5729 I		A	GCAGTGACTTCTTGACATGTTAATCCTTGTCTTAAAGTTACATTTTCCCTT				
5729 P	G	A	ATGACGTGGCAGACGTCACCACTCCCACCY				
5729 P	A	A	CGCGCCGAGGATCACCACTCCCACCY				

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FIGURE 129E

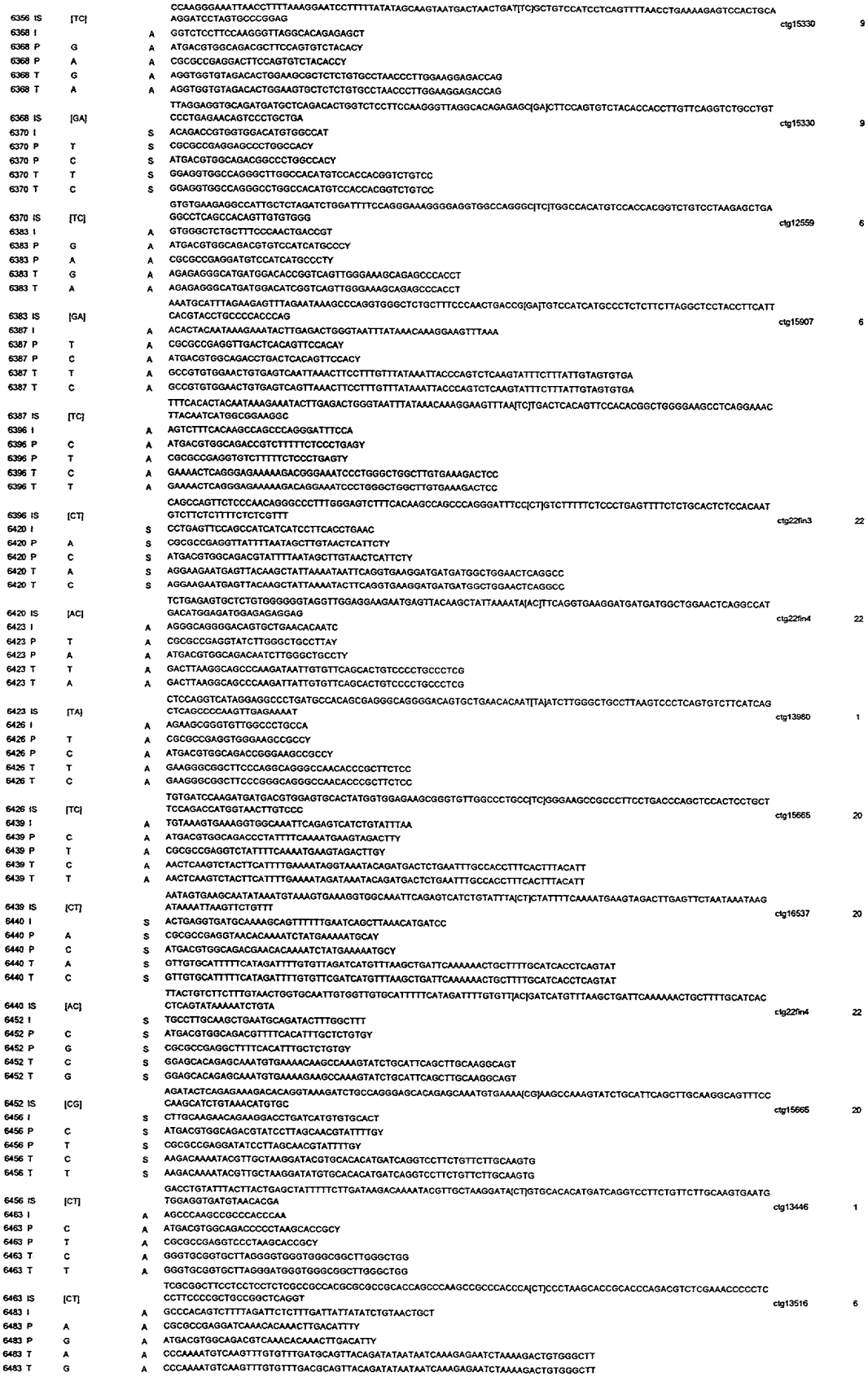
5729 T	G	A	GTGGGGTGGGAGTGGTGACAGGGAAAATGTAACTTTAAGACAAGGATTAACATGTCAAGAAGTCACTGCAA			
5729 T	A	A	GTGGGGTGGGAGTGGTGATAGGGAAAATGTAACTTTAAGACAAGGATTAACATGTCAAGAAGTCACTGCAA			
5729 IS	[GA]		TTTTACACTTGCAGTGACTTCTTGACATGTTAATCCTTGTCTTAAAGTTACATTTTCCCT[GA]TCACCACTCCCACCCCACTCTTTCCAAGAAGAGCTAGCCCA ATCTCCATGTTGCCAATTT			
5756 I		S	GAACTGTGGGCCGCAGGGGGTT			
5756 P	C	S	ATGACGTGGCAGACGCCAGGAGCTGATGY			
5756 P	T	S	CGCGCCGAGGACCAGGAGCTGATGCY			
5756 T	C	S	GGCTGCATCAGCTCCTGGCACCCCCTGCGGCCCACAGTTCTG			
5756 T	T	S	GGCTGCATCAGCTCCTGGTACCCCCTGCGGCCCACAGTTCTG			
5756 IS	[CT]		AAACCAGACTCCCCACAGGCATGCGGGGGGGTGGGCTGAGACCTGGCTGCATCAGCTCCTGG[CT]ACCCCCTGCGGCCCACAGTTCTGGTCCGTGTACACG CCCTGCGACACCCAGAACAAAGAC	ctg22fin4	22	
5770 I		S	GCAGGCCCGGGAGAGGCTAACAGGA			
5770 P	G	S	ATGACGTGGCAGACCTCATCAACATATTAGTAAATCAGTTY			
5770 P	A	S	CGCGCCGAGGTTCATCAACATATTAGTAAATCAGTTY			
5770 T	G	S	GCACAACTGATTTACTAATATGTTGATGAGCCTGTTAGCCTCTCCCGGGCCTGCTG			
5770 T	A	S	GCACAACTGATTTACTAATATGTTGATGAACCTGTTAGCCTCTCCCGGGCCTGCTG			
5770 IS	[GA]		TGGGTCTCCCACAGGATACTTGGGAGTTGAAGCACAACTGATTTACTAATATGTTGATGA[GA]CCTGTTAGCCTCTCCCGGGCCTGCTGCAGCCTCACTCTT CACAACGCTGAAGCGATTCCA			
5790 I		S	GGTCCTAGACTTCCAGTAAGAATGACTCAGAGTCTCCCA			
5790 P	G	S	ATGACGTGGCAGACCGCTCTGAAATACTGAAGTATY			
5790 P	A	S	CGCGCCGAGGTGCTCTGAAATACTGAAGTATTY			
5790 T	G	S	AATAAATACTTCAGTATTTCAGAGCGGGGAGACTCTGAGTCATTCTTACTGGAAGTCTAGGACCAG			
5790 T	A	S	AATAAATACTTCAGTATTTCAGAGCAGGGAGACTCTGAGTCATTCTTACTGGAAGTCTAGGACCAG			
5790 IS	[GA]		CCTCACTGTCACCTTCCCGAGAATACCCTAAGACCAATAAATACTTCAGTATTTCAGAGC[GA]GGGAGACTCTGAGTCATTCTTACTGGAAGTCTAGGACCA GGTCACATGTGAATACTATTT	ctg12414	1	
5795 I		A	TGGCCTCCTGTGAAGCCCCTCGAAGA			
5795 P	C	A	ATGACGTGGCAGACCCGTGGTGGAGCCY			
5795 P	T	A	CGCGCCGAGGTCGTGGTGGAGCCY			
5795 T	C	A	GCCTGGCTCCACCACGGCTTCGAGGGGCTTCACAGGAGGCCATC			
5795 T	T	A	GCCTGGCTCCACCACGACTTCGAGGGGCTTCACAGGAGGCCATC			
5795 IS	[CT]		ACGAACAAAGCAGCTGCCTCTCCCACTGGGTCAGATGGCCTCCTGTGAAGCCCCTCGAAG[CT]CGTGGTGGAGCCAGGCCAGGGCAGGACTCACCTTGCC GGTCCGCAGGGTGAGGGGGGTGT			
5798 I		A	AGGCAGTCAGGCACCTAGGTCAACAAGCT			
5798 P	G	A	ATGACGTGGCAGACGCAGGATACGTGACGTY			
5798 P	A	A	CGCGCCGAGGACAGGATACGTGACGTY			
5798 T	G	A	CAACACGTCACGTATCCTGCGCTTGTTGACCTAGGTGCCTGACTGCCTGT			
5798 T	A	A	CAACACGTCACGTATCCTGTGCTTGTTGACCTAGGTGCCTGACTGCCTGT			
5798 IS	[GA]		AGTGGCAGTCAGCCACCTAGGTCAATAAGCACAGGCAGTCAGGCACCTAGGTCAACAAGC[GA]CAGGATACGTGACGTGTTGTGTGAGGGAAAAGGAGGA TGGAGGTGGGGAGGGTGCGGGTA			
5802 I		S	CAAAGTCTGCTTTGAAATTTTTATGCTCTAATTTGTACTAAATCAAGAGAAAAATA			
5802 P	A	S	CGCGCCGAGGTGGAGAAACTGATTTTTGTAC			
5802 P	G	S	ATGACGTGGCAGACCGGAGAAACTGATTTTTGTACY			
5802 T	A	S	AATGGTACAAAAATCAGTTTCTCCAATTTTTCTCTTGATTTAGTACAAATTAGAGCATAAAAATTTCAAAGCAGACTTTGAA			
5802 T	G	S	AATGGTACAAAAATCAGTTTCTCCGATTTTTCTCTTGATTTAGTACAAATTAGAGCATAAAAATTTCAAAGCAGACTTTGAA			
5802 IS	[AG]		TCTACCATACGAGGTTATAGTAATAGGATTACACATAATGGTACAAAAATCAGTTTCTCC[AG]ATTTTTCTCTTGATTTAGTACAAATTAGAGCATAAAAATTTC AAAGCAGACTTTGAAAAT	ctg15861	13	
5870 I		S	GCAGAATGTAGAGCTTGACGTGCACGCACAAAAT			
5870 P	T	S	CGCGCCGAGGACGTGCTGTACCCGY			
5870 P	C	S	ATGACGTGGCAGACGCGTGCTGTACCCGY			
5870 T	T	S	CCTTCGGGTACAGCACGTTTTTGTGCGTGCACGTCAAGCTCTACATTCTGCTG			
5870 T	C	S	CCTTCGGGTACAGCACGCTTTTGTGCGTGCACGTCAAGCTCTACATTCTGCTG			
5870 IS	[TC]		TTCGCCAATTACCGCCTGTGGGAGGCCCTGGGCTTCGTCATTGCCTTCGGGTACAGCACG[TC]TTTTGTGCGTGCACGTCAAGCTCTACATTCTGCTGGGG GTCCTGAGCCTGACCATGGTGG	ctg16861	13	
5930 I		S	GAGCACCAATCCACAGGCCACTGGACT			
5930 P	T	S	CGCGCCGAGGATGGTGATTTTGCCAACG			
5930 P	C	S	ATGACGTGGCAGACGTGGTGATTTTGCCAAC			
5930 T	T	S	CTCACGTTGGCAAAATCACCATGTCCAGTGGCCTGTGGATTGGTGCTCGG			
5930 T	C	S	CTCACGTTGGCAAAATCACCACGTCCAGTGGCCTGTGGATTGGTGCTCGG			
5930 IS	[TC]		CTCCATGTAGCTGCACGGGGAGCTTGGGGCCTCCACCCACTCACGTTGGCAAAATCACCA[TC]GTCCAGTGGCCTGTGGATTGGTGCTCGGTGGACACGG ATGCGTGTGCCCCAGCAGGCTGG			
5971 I		S	GAGGAGGTGCCTCTTTGCCTCATCACCTGT			
5971 P	T	S	CGCGCCGAGGACTCCACAAGAAACAAGGY			
5971 P	C	S	ATGACGTGGCAGACGCTCCACAAGAAACAAGGY			
5971 T	T	S	CTGCCCTTGTTTCTTGTGGAGTCAGGTGATGAGGCAAAGAGGCACCTCCTCCA			
5971 T	C	S	CTGCCCTTGTTTCTTGTGGAGCCAGGTGATGAGGCAAAGAGGCACCTCCTCCA			
5971 IS	[TC]		CACCTTACCCTGAAAGTGGTGAAGCCCAGTGATGAGGAGCTGCCCTTGTTTCTTGTGGAG[TC]CAGGTGATGAGGCAAAGAGGCACCTCCTCCAGGTGCG AAGGTCCAGCTCAGTGGCACAAG	ctg17253	1	UBD
6018 I		A	GCAAACTCCTAACGGGGTTTTGGCACATCACAAAA			
6018 P	C	A	ATGACGTGGCAGACCAATTAGGCGACTGCAC			
6018 P	T	A	CGCGCCGAGGTAATTAGGCGACTGCACT			
6018 T	C	A	ATGGAGTGCAGTCGCCTAATTGTTTGTGATGTGCCAAAACCCCGTTAGGAGTTTGCTC			
6018 T	T	A	ATGGAGTGCAGTCGCCTAATTATTTGTGATGTGCCAAAACCCCGTTAGGAGTTTGCTC			
6018 IS	[CT]		TTTTGGCAGAACTTCCAAGGTAACGAGCAAACTCCTAACGGGGTTTTGGCACATCACAAA[CT]AATTAGGCGACTGCACTCCATAATCAGCCTAGGGGGACG GGGAGGCCATGCGCCTGCCAG	ctg15071	9	
6100 I		S	CTCACTCCCCATGGGTTTTGGGACTCTAACCA			
6100 P	G	S	ATGACGTGGCAGACCGGCTCCTCTGCTT			
6100 P	A	S	CGCGCCGAGGTGGCTCCTCTGCTTC			
6100 T	G	S	GCAGGAAGCAGAGGAGCCGGGTTAGAGTCCCAAAACCCATGGGGAGTGAGCC			
6100 T	A	S	GCAGGAAGCAGAGGAGCCAGGTTAGAGTCCCAAAACCCATGGGGAGTGAGCC			
6100 IS	[GA]		CGGGCTCCAAGCCGCCCACGGCCCATGTTTCTGCTAGGTCTAGCAGGAAGCAGAGGAGCC[GA]GGTTAGAGTCCCAAAACCCATGGGGAGTGAGCCGGC TGCTTCCGGCCAGCCTCGGATTAA	ctg15071	9	
6154 I		A	CATCCTGCCTCCCAACCCTGTAATTACGGTGT			
6154 P	C	A	CGCGCCGAGGCTTCCCAACGCCCA			
6154 P	G	A	ATGACGTGGCAGACGTTCCCAACGCCCA			
6154 T	C	A	GCGATGGGCGTTGGGAAGCACCGTAATTACAGGGTTGGGAGGCAGGATGCC			
6154 T	G	A	GCGATGGGCGTTGGGAACCACCGTAATTACAGGGTTGGGAGGCAGGATGCC			
6154 IS	[CG]		TTGAAAGGCACCTCCTCCCCCAGCGCAGGCATCCTGCCTCCCAACCCTGTAATTACGGTG[CG]TTCCCAACGCCCATCGCGTGGTTTGCTCCCATTCTTTG GCTTCCAATAGTTGCAAGGGAT			
6157 I		A	CCCAATTCCCACTCCCATTGGGTGTCGGT			
6157 P	G	A	ATGACGTGGCAGACGTTCTAGAGAAGCCAATCAG			
6157 P	A	A	CGCGCCGAGGATTCTAGAGAAGCCAATCAG			
6157 T	G	A	GACGCTGATTGGCTTCTCTAGAACCCGACACCCAATGGGAGTGGGAATTGGGGA			
6157 T	A	A	GACGCTGATTGGCTTCTCTAGAATCCGACACCCAATGGGAGTGGGAATTGGGGA			
6157 IS	[GA]		GGGTCCTTCTTCCTGAATACTCATGACGCGTCCCCAATTCCCACTCCCATTGGGTGTCGG[GA]TTCTAGAGAAGCCAATCAGCGTCTCCGCAGTCCCGGTT CTAAAGTCCCCAGTCACCCACC			
6183 I		S	CATGAAGTAAGACTTTAAAAATATTTTTTGCTGACCTCTTTCATTGGTAATCT			
6183 P	T	S	CGCGCCGAGGAAATGCTTTCTTGGACTGGY			
6183 P	C	S	ATGACGTGGCAGACGAATGCTTTCTTGGACTGGY			
6183 T	T	S	AATACCAGTCCAAGAAAGCATTTGATTACCAATGAAAGAGGTCAGCAAAAAATATTTTTAAAGTCTTACTTCATGAT			

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FIGURE 129E

6183 T	C	S	AATACCAGTCCAAGAAAGCATTCGATTACCAATGAAAGAGGTCAGCAAAAAATATTTTTAAAGTCTTACTTCATGAT		
6183 IS	[TC]		TATTATCCAACCAGCAAGACAGTCAATAAATTCACAAAAATACCAGTCCAAGAAAGCATT[TC]GATTACCAATGAAAGAGGTCAGCAAAAAATATTTTTAAAGT CTTACTTCATGATGTGGTG	ctg14326	3
6205 I		S	GCCACCTGGGAGATTCTAATTCTCCACACCAGAA		
6205 P	G	S	ATGACGTGGCAGACCGTGGCTGATACTAAAGTAC		
6205 P	A	S	CGCGCCGAGGTGTGGCTGATACTAAAGTACT		
6205 T	G	S	GATAAGTACTTTAGTATCAGCCACGTCTGGTGTGGAGAATTAGAATCTCCCAGGTGGCTT		
6205 T	A	S	GATAAGTACTTTAGTATCAGCCACATCTGGTGTGGAGAATTAGAATCTCCCAGGTGGCTT		
6205 IS	[GA]		GCTTGATGTGTGGTTGGCGCTCAAAGCCTGTTTATTGATAAGTACTTTAGTATCAGCCAC[GA]TCTGGTGTGGAGAATTAGAATCTCCCAGGTGGCTTTGAA TAAAGTACAAATAACTGACTT	ctg14326	3
6212 I		A	CTTCTCCAAATTCCACGTCTTCCATGAGTGTGGGTAATAAT		
6212 P	A	A	CGCGCCGAGGATGCCTCATGGAACTG		
6212 P	G	A	ATGACGTGGCAGACGTGCCTCATGGAACTG		
6212 T	A	A	AAAGCAGTTCCATGAGGCATTTATTACCCACACTCATGGAAGACGTGGAATTTGGAGAAGGA		
6212 T	G	A	AAAGCAGTTCCATGAGGCACTTATTACCCACACTCATGGAAGACGTGGAATTTGGAGAAGGA		
6212 IS	[AG]		TGCGTTAGGCCAGGCTCTTCCTTCTCCAAATTCCACGTCTTCCATGAGTGTGGGTAATAA[AG]TGCCTCATGGAACTGCTTTGAGCCTTAATTGACGTAAAAA ATACTGGCTTTGGAGTTCCA	ctg16306	4
6228 I		S	CCAGATGCTTAAGGAAACCAGGTGTCCCTCCT		
6228 P	T	S	CGCGCCGAGGACCAAAAATGGCAGAATCA		
6228 P	C	S	ATGACGTGGCAGACGCCAAAAATGGCAGAATC		
6228 T	T	S	TTTCTGATTCTGCCATTTTTGGTGGAGGGACACCTGGTTTCCTTAAGCATCTGGGT		
6228 T	C	S	TTTCTGATTCTGCCATTTTTGGCGGAGGGACACCTGGTTTCCTTAAGCATCTGGGT		
6228 IS	[TC]		GCATTGCCCCGCCTGGGGAGCCGTCCCGGCACCTCGGGTTTCTGATTCTGCCATTTTTGG[TC]GGAGGGACACCTGGTTTCCTTAAGCATCTGGGTCATGA GGTCCTGCAAACTTCTGCACTT	ctg13980	1
6237 I		A	GCTTGGGGCTGGAGGGGTGGGA		
6237 P	C	A	ATGACGTGGCAGACCGGGCGGGTGTGY		
6237 P	T	A	CGCGCCGAGGTGGGCGGGTGTGY		
6237 T	C	A	TCCACACACCCGCCCGCCCACCCCTCCAGCCCCAAGCTG		
6237 T	T	A	TCCACACACCCGCCCACCCACCCCTCCAGCCCCAAGCTG		
6237 IS	[CT]		TATCGGAGTGCTCTTCCCTCAGTCTGCTGCTAGTGCCCAGCTTGGGGCTGGAGGGGTGGG[CT]GGGCGGGTGTGTGGAGTCCTGGAGACTGTGGCCGAG AGGACAAGCCCTGAGCTAGGTTGG	ctg13980	1
6239 I		S	CCTTCTGCAGCAGGGGTCTTGCTGCT		
6239 P	C	S	ATGACGTGGCAGACGCATATGCACTTAAATAACAGGY		
6239 P	T	S	CGCGCCGAGGACATATGCACTTAAATAACAGGA		
6239 T	C	S	TGTGTCCTGTTATTTAAGTGCATATGCGCAGCAAGACCCCTGCTGCAGAAGGAA		
6239 T	T	S	TGTGTCCTGTTATTTAAGTGCATATGTGCAGCAAGACCCCTGCTGCAGAAGGAA		
6239 IS	[CT]		GTGAAACTTAAAAAGAAATAAGATTAAGCTATATTGTGTCCTGTTATTTAAGTGCATATG[CT]GCAGCAAGACCCCTGCTGCAGAAGGAAAGCATTTTTTCATT AAGTGTTTTTGTCCCTCTC	ctg15972	16
6245 I		A	GGGTGGCCACCTCCAAGGCTCTTTTCTA		
6245 P	C	A	ATGACGTGGCAGACCTTTATTCCTTGGCTGGAA		
6245 P	T	A	CGCGCCGAGGTTTTATTCCTTGGCTGGAA		
6245 T	C	A	ACGGTTCCAGCCAAGGAATAAAGAGAAAAGAGCCTTGGAGGTGGCCACCCTG		
6245 T	T	A	ACGGTTCCAGCCAAGGAATAAAAAGAAAAGAGCCTTGGAGGTGGCCACCCTG		
6245 IS	[CT]		ACACAGCCCTTCGGGCAGCTTGGGATCCTGCCAGGGTGGCCACCTCCAAGGCTCTTTTCT[CT]TTTATTCCTTGGCTGGAACCGTCACCCTGCCTGGCACA GAGAAGGGCTTAGTGAGGTTTG	ctg15907	6
6256 I		A	ACAGAGGAAGAAGCTGCTGTGCCAAGCCT		
6256 P	G	A	ATGACGTGGCAGACGTCAGGCTCCTAGGC		
6256 P	A	A	CGCGCCGAGGATCAGGCTCCTAGGC		
6256 T	G	A	GTACGCCTAGGAGCCTGACGGCTTGGCACAGCAGCTTCTTCCTCTGTGA		
6256 T	A	A	GTACGCCTAGGAGCCTGATGGCTTGGCACAGCAGCTTCTTCCTCTGTGA		
6256 IS	[GA]		TAGACCAGTTTACAGAGGAATACACTAGGCTCACAGAGGAAGAAGCTGCTGTGCCAAGCC[GA]TCAGGCTCCTAGGCGTACACTCTGACCCTTCCATCATG CCCCAGCTAAGCTGTGAAAGGT	ctg22fin6	22
6267 I		S	GCCCCATCAAGTCATTAACCCTGTCCCCCA		
6267 P	A	S	CGCGCCGAGGTGTAAGGCAGACTGAAGC		
6267 P	G	S	ATGACGTGGCAGACCGTAAGGCAGACTGAAG		
6267 T	A	S	CTCTGCTTCAGTCTGCCTTACAGGGGGACAGGGTTAATGACTTGATGGGGCCA		
6267 T	G	S	CTCTGCTTCAGTCTGCCTTACGGGGGGACAGGGTTAATGACTTGATGGGGCCA		
6267 IS	[AG]		TGGTCTCAAAAATGGCCAGAACCACTGCCAGCCTCCCATCTCTGCTTCAGTCTGCCTTAC[AG]GGGGGACAGGGTTAATGACTTGATGGGGCCAACATCCC TTCCCTCATAAACCAGGCTGCC	ctg15907	6
6288 I		S	CAGAGAGACCCACAGTGAGCCCTGGGT		
6288 P	T	S	CGCGCCGAGGATCAGAGGCACCTCC		
6288 P	G	S	ATGACGTGGCAGACCTCAGAGGCACCTCC		
6288 T	T	S	TATGGGAGGTGCCTCTGATCCCAGGGCTCACTGTGGGTCTCTCTGTT		
6288 T	G	S	TATGGGAGGTGCCTCTGAGCCCAGGGCTCACTGTGGGTCTCTCTGTT		
6288 IS	[TG]		CAGCTCCCAGATGTGAGTGTCTCAGGGATCCAGACATGGGGGTATGGGAGGTGCCTCTGA[TG]CCCAGGGCTCACTGTGGGTCTCTCTGTTCACAGGGGT CCTGTCCCAGGTGCAGCTGCAGG		
6298 I		S	AGTTTGGCTTATGTGGTGGCTCTTGAATGGAATATTTCTCTTACAATTT		
6298 P	T	S	CGCGCCGAGGAGATTGTGTTTCTATTGTTCTTTG		
6298 P	G	S	ATGACGTGGCAGACCGATTGTGTTTCTATTGTTCTTT		
6298 T	T	S	AGAACAAAGAACAATAGAAACACAATCTAATTGTAAGAGAAATATTCCATTCAAGAGCCACCACATAAGCCAAACTGA		
6298 T	G	S	AGAACAAAGAACAATAGAAACACAATCGAATTGTAAGAGAAATATTCCATTCAAGAGCCACCACATAAGCCAAACTGA		
6298 IS	[TG]		TTAAGACTGTTTAGAAAACGGGTTATATATTTGAGAACAAAGAACAATAGAAACACAATC[TG]AATTGTAAGAGAAATATTCCATTCAAGAGCCACCACATAAG CCAAACTGACAGAGTGGGA	ctg16920	19
6311 I		S	CCTTCCACACCCCCAATCCTGGGACCC		
6311 P	A	S	CGCGCCGAGGTCTCCCATGGCCTG		
6311 P	C	S	ATGACGTGGCAGACGCTCCCATGGCCT		
6311 T	A	S	TTGACAGGCCATGGGAGAGGTCCCAGGATTGGGGGTGTGGAAGGAT		
6311 T	C	S	TTGACAGGCCATGGGAGCGGTCCCAGGATTGGGGGTGTGGAAGGAT		
6311 IS	[AC]		CACAAGGTCCCCTTGTTTCACCACTGACCCACCCAGATGCTGCTTGACAGGCCATGGGAG[AC]GGTCCCAGGATTGGGGGTGTGGAAGGATAGACTCCAC TCTGAACCAATTCCCTTAGGACC		
6324 I		S	CCTTTACCTTGGACCCCTCACCAAGGCTT		
6324 P	G	S	CGCGCCGAGGCCCTCTGGGCTACAG		
6324 P	C	S	ATGACGTGGCAGACGCCTCTGGGCTACAG		
6324 T	G	S	GTCCCTGTAGCCCAGAGGGAGCCTTGGTGAGGGGTCCAAGGTAAAGGGT		
6324 T	C	S	GTCCCTGTAGCCCAGAGGCAGCCTTGGTGAGGGGTCCAAGGTAAAGGGT		
6324 IS	[GC]		GAAAAGGCTTAGGCCCCTTGTCCTCTGGCAGCCCAGCTCGGTGTCCCTGTAGCCCAGAGG[GC]AGCCTTGGTGAGGGGTCCAAGGTAAAGGGTGCAAGG GCCTGGGGGCATTGGCCACCCGTC	ctg15907	6
6326 I		S	GGACACTGTGACACCGAGCCCATCCCA		
6326 P	G	S	ATGACGTGGCAGACCCACATGACCCAGATGA		
6326 P	A	S	CGCGCCGAGGTCACATGACCCAGATGA		
6326 T	G	S	ACTTTCATCTGGGTCATGTGGGGGATGGGCTCGGTGTCACAGTGTCCTG		
6326 T	A	S	ACTTTCATCTGGGTCATGTGAGGGATGGGCTCGGTGTCACAGTGTCCTG		
6326 IS	[GA]		GGGGGGCGATCCGGACAGGGAAGTGCTCACCACACTCTCGACTTTCATCTGGGTCATGTG[GA]GGGATGGGCTCGGTGTCACAGTGTCCTGCCCAGCCCA CCTGGCCAGACCTCCCTCTGGGC	ctg15330	9
6356 I		A	GGAAATTAACCTTTTAAAGGAATCCTTTTTATATAGCAAGTAATGACTAACTGATA		
6356 P	T	A	CGCGCCGAGGTGCTGTCCATCCTCAGY		
6356 P	C	A	ATGACGTGGCAGACCGCTGTCCATCCTCAY		
6356 T	T	A	AAAACTGAGGATGGACAGCAATCAGTTAGTCATTACTTGCTATATAAAAAGGATTCCTTTAAAAGGTTAATTTCCCT		
6356 T	C	A	AAAACTGAGGATGGACAGCGATCAGTTAGTCATTACTTGCTATATAAAAAGGATTCCTTTAAAAGGTTAATTTCCCT		

FIGURE 129E



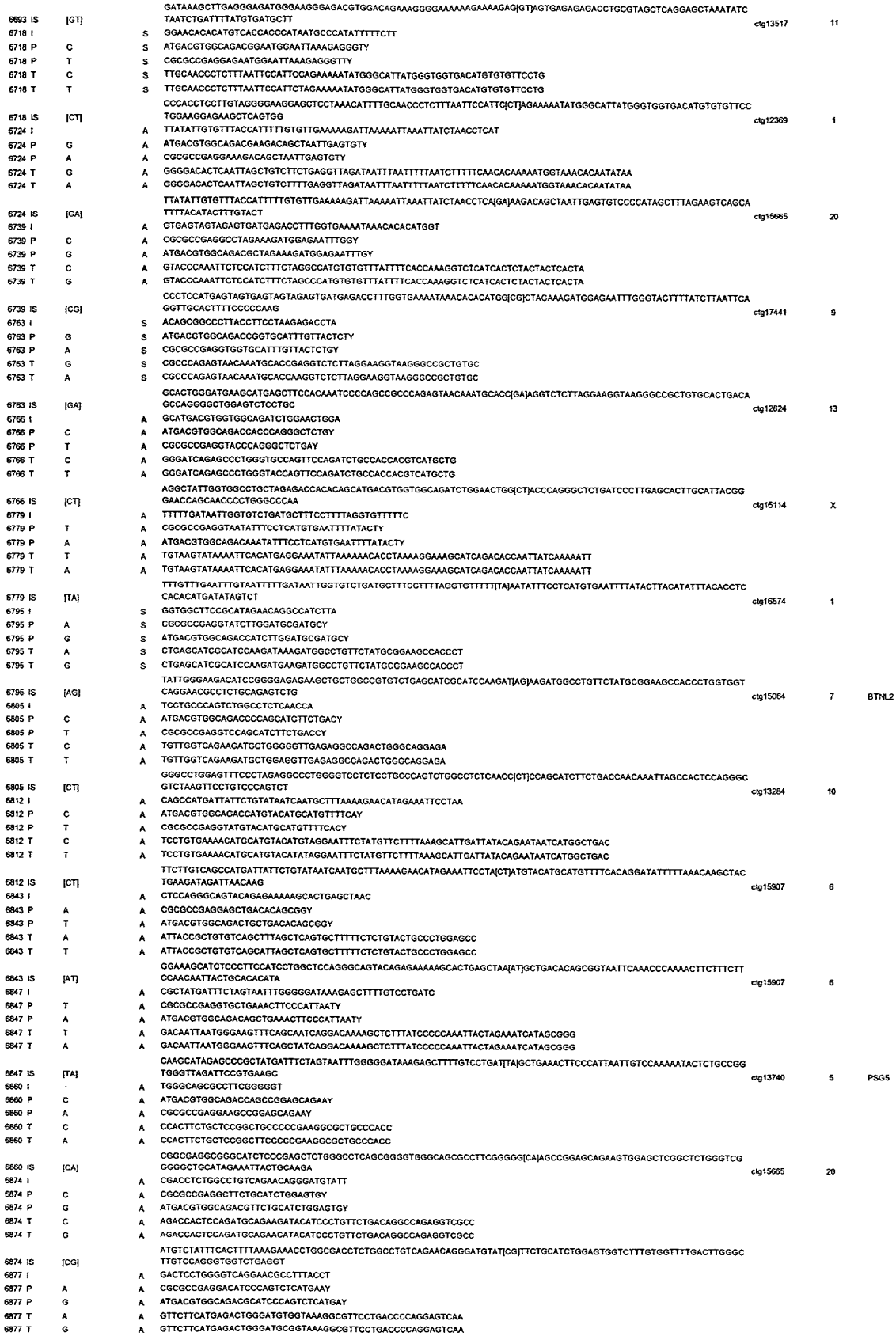
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FIGURE 129E

				GGTTGATTAGAAAAGCCCACAGTCTTTTAGATTCTCTTTGATTATTATATCTGTAACTGC[AG]TCAAACACAAACTTGACATTTTGGGTGTCAGTAGCACAGGT		
6483 IS	[AG]			CATGTGGGAATAAATTTCC	ctg22fin4	22
6499 I		S		AGTCAGGACCACTGACAGTTCCGTGTGAACACT		
6499 P	T	S		CGCGCCGAGGATGTCAGAAAAACGCGAY		
6499 P	C	S		ATGACGTGGCAGACGTGTCAGAAAAACGCGAY		
6499 T	T	S		GGCCTCGCGTTTTTCTGACATGTGTTCACACGGAACTGTCAGTGGTCCTGACTGC		
6499 T	C	S		GGCCTCGCGTTTTTCTGACACGTGTTCACACGGAACTGTCAGTGGTCCTGACTGC		
				TGCTTGTGGGGCCTTGTTCGGAGGAACCACACCGCCAGGCGGCCTCGCGTTTTTCTGACA[TC]GTGTTCACACGGAACTGTCAGTGGTCCTGACTGCACA		
6499 IS	[TC]			GCCTGCGGAATGCCGCCCGGGCC		
6500 I		A		CACTAGGGTAAGGTCCCCCCAGCTTTCAGAAATAAGA		
6500 P	C	A		ATGACGTGGCAGACCGTTGGAGGAGTTGGAY		
6500 P	T	A		CGCGCCGAGGTGTTGGAGGAGTTGGACY		
6500 T	C	A		TTGAGTCCAACTCCTCCAACGCTTATTTCTGAAAGCTGGGGGGGACCTTACCCTAGTGAC		
6500 T	T	A		TTGAGTCCAACTCCTCCAACACTTATTTCTGAAAGCTGGGGGGACCTTACCCTAGTGAC		
				TACAGGCAAGGTCATAAGTCAAGTCACTAGGGTAAGGTCCCCCCAGCTTTCAGAAATAAG[CT]GTTGGAGGAGTTGGACTCAATCCTGGCATTCTATGGATC		
6500 IS	[CT]			TAAAACTCCCAGATGGGATAC	ctg15478	1
6520 I		S		GCAAGGAGAGAGAAGGATGAGGTTTGTGAGCAGAAAT		
6520 P	C	S		ATGACGTGGCAGACGGAGGCGACTGTGC		
6520 P	T	S		CGCGCCGAGGAGAGGCGACTGTGC		
6520 T	C	S		CGTGGCACAGTCGCCTCCTTTCTGCTCACAAACCTCATCCTTCTCTCTCCTTGCAG		
6520 T	T	S		CGTGGCACAGTCGCCTCTTTTCTGCTCACAAACCTCATCCTTCTCTCTCCTTGCAG		
				GGGGACTCAGCTGTGTATCTCTGTGCCAGCAGCTTAGCCACAGCGTGGCACAGTCGCCTC[CT]TTTCTGCTCACAAACCTCATCCTTCTCTCTCCTTGCAGC		
6520 IS	[CT]			TCCTACAAACCCTTAACAGAG	ctg15907	6
6540 I		S		TGCCATATTGGCCAGGCTGGTCTCGAAT		
6540 P	C	S		ATGACGTGGCAGACGTCTCTACCTCAGTTGATCT		
6540 P	G	S		CGCGCCGAGGCTCTCTACCTCAGTTGATCT		
6540 T	C	S		GGGCAGATCAACTGAGGTAGAGACTTCGAGACCAGCCTGGCCAATATGGCAAA		
6540 T	G	S		GGGCAGATCAACTGAGGTAGAGAGTTCGAGACCAGCCTGGCCAATATGGCAAA		
				TCACACCTGTAATCCCAACATTTTGGGAGGCTGAGGCGGGCAGATCAACTGAGGTAGAGA[CG]TTCGAGACCAGCCTGGCCAATATGGCAAACTCCTGCCT		
6540 IS	[CG]			CTATTAAAAATATAAAGTTAGC	ctg15907	6
6549 I		A		CTACTTCTCCAAGATTCTAATTCAAACTCTCTTCACTCCTTAACT		
6549 P	G	A		ATGACGTGGCAGACGTCTAACCACTTATATCCAGAAG		
6549 P	A	A		CGCGCCGAGGATCTAACCACTTATATCCAGAAG		
6549 T	G	A		GACCCTTCTGGATATAAGTGGTTAGACGTTAAGGAGTGAAGAGAGTTTGAATTAGAATCTTGGAGAAGTAGCA		
6549 T	A	A		GACCCTTCTGGATATAAGTGGTTAGATGTTAAGGAGTGAAGAGAGTTTGAATTAGAATCTTGGAGAAGTAGCA		
				CATGTTATTTTCTTTGCTACTTCTCCAAGATTCTAATTCAAACTCTCTTCACTCCTTAAC[GA]TCTAACCACTTATATCCAGAAGGGTCAGCCAGTCAATGTAT		
6549 IS	[GA]			CAGCCTGTCAACGTAGAAT	ctg15590	7
6559 I		A		TGCAGTCCATAGTTGTCCATATAAGGCCCTTAACTTTTAAGCTAGATAAAAA		
6559 P	C	A		ATGACGTGGCAGACCTGGTCTTGTGTACAACTT		
6559 P	T	A		CGCGCCGAGGTTGGTCTTGTGTACAACTTC		
6559 T	C	A		TTCCGAAGTTGTACACAAGACCAGTTTTATCTAGCTTAAAAGTTAAGGGCCTTATATGGACAACTATGGACTGCATT		
6559 T	T	A		TTCCGAAGTTGTACACAAGACCAATTTTATCTAGCTTAAAAGTTAAGGGCCTTATATGGACAACTATGGACTGCATT		
				CTCTTTAAATGCAGTCCATAGTTGTCCATATAAGGCCCTTAACTTTTAAGCTAGATAAAA[CT]TGGTCTTGTGTACAACTTCGGAATTCCTTTTTTTCAAGTAA		
6559 IS	[CT]			CTCAAGGTTACTACAGTGG	ctg13414	X
6585 I		A		GGTGAAGCCATCTGCAGGGACAGGAGTT		
6585 P	A	A		CGCGCCGAGGATGTTAGCAGGAAGGTAAAC		
6585 P	G	A		ATGACGTGGCAGACGTGTTAGCAGGAAGGTAAA		
6585 T	A	A		CTGTGTTTACCTTCCTGCTAACATACTCCTGTCCCTGCAGATGGCTTCACCCC		
6585 T	G	A		CTGTGTTTACCTTCCTGCTAACACACTCCTGTCCCTGCAGATGGCTTCACCCC		
				AGCCCCCCCACAGAAGGAAGCCAGCATTAGCGGGGTGAAGCCATCTGCAGGGACAGGAGT[AG]TGTTAGCAGGAAGGTAAACACAGGGCCTTTTCCAGGA		
6585 IS	[AG]			AATGTTATCAAGGGTACCCCATT	ctg15907	6
6599 I		A		TGTATGCTAAGTTCATTGGTTCTGAGTGATTTCGTAATGGCAACTA		
6599 P	T	A		CGCGCCGAGGTGTTTAATTGTCACAGTAACTCA		
6599 P	C	A		ATGACGTGGCAGACCGTTTAATTGTCACAGTAACTC		
6599 T	T	A		TTATTGAGTTACTGTGACAATTAAACAAGTTGCCATTACGAAATCACTCAGAACCAATGAACTTAGCATACACT		
6599 T	C	A		TTATTGAGTTACTGTGACAATTAAACGAGTTGCCATTACGAAATCACTCAGAACCAATGAACTTAGCATACACT		
				TTCTGTAGTTCTTAGTGTATGCTAAGTTCATTGGTTCTGAGTGATTTCGTAATGGCAACT[TC]GTTTAATTGTCACAGTAACTCAATAAAATTTTTGTAGATAAA		
6599 IS	[TC]			CTGAGTCTCAGAGAGATT	ctg14747	2
6600 I		A		CTGAAAGTTGTAAGTATAGTATGACTCATCTCTTGTATTTTTCTGTCTTTCTT		
6600 P	C	A		CGCGCCGAGGCATTTCCTTCTTTCTTCTTTCTC		
6600 P	G	A		ATGACGTGGCAGACGATTTCCTTCTTTCTTCTTTCTC		
6600 T	C	A		CAAAGAGAAAGAAGAAAGAAGGAAATGAGAAAGACAGAAAAATACAAGAGATGAGTCATACTATACTTACAACTTTCAGCC		
6600 T	G	A		CAAAGAGAAAGAAGAAAGAAGGAAATCAGAAAGACAGAAAAATACAAGAGATGAGTCATACTATACTTACAACTTTCAGCC		
				CTATCAGGCTGAAAGTTGTAAGTATAGTATGACTCATCTCTTGTATTTTTCTGTCTTTCT[CG]ATTTCCTTCTTTCTTCTTTCTCTTTGGTTGGTTTTCACGTCC		
6600 IS	[CG]			AGTGTCTTGTCTTACATT		
6606 I		S		GGCACTGTCAGAGGCACGCCCCA		
6606 P	A	S		CGCGCCGAGGTCACGCCCAGTGC		
6606 P	G	S		ATGACGTGGCAGACCCACGCCCAGTGC		
6606 T	A	S		GGAGGCACTGGGCGTGAGGGGCGTGCCTCTGACAGTGCCCC		
6606 T	G	S		GGAGGCACTGGGCGTGGGGGGCGTGCCTCTGACAGTGCCCC		
				GTTCTCCAGCACCATGTTGCAGTGCCTGGTGGGGAACAGGGAGGGGAGGCACTGGGCGTG[AG]GGGGCGTGCCTCTGACAGTGCCCCCTACTGCCTGCT		
6606 IS	[AG]			GCTCGCCCCCTCCAGCAGCATGGC	ctg15972	16
6615 I		A		CTGCTCCAAGAAACAGGAGGGAGAAAATGCTATCATGTT		
6615 P	A	A		CGCGCCGAGGATATGTGGTCCTTAAATGTAGTAT		
6615 P	G	A		ATGACGTGGCAGACGTATGTGGTCCTTAAATGTAGT		
6615 T	A	A		TGAAATACTACATTTAAGGACCACATATACATGATAGCATTTTCTCCCTCCTGTTTCTTGGAGCAGGT		
6615 T	G	A		TGAAATACTACATTTAAGGACCACATACACATGATAGCATTTTCTCCCTCCTGTTTCTTGGAGCAGGT		
				ACATAATGCTGGAACCAGAGACCTGCTCCAAGAAACAGGAGGGAGAAAATGCTATCATGT[AG]TATGTGGTCCTTAAATGTAGTATTTCAGAACAAAACAAAA		
6615 IS	[AG]			CAAAATTCTGAGAGCCAGTT	ctg17036	17
6623 I		S		AGATGCTGCATAAGACTGCTATAAAAGCTGACAGATATGCAGAAAAAAATACC		
6623 P	C	S		ATGACGTGGCAGACGGTATTCATTAGCAAGTCATAG		
6623 P	A	S		CGCGCCGAGGTGTATTCATTAGCAAGTCATAGG		
6623 T	C	S		ATTCCCTATGACTTGCTAATGAATACCGTATTTTTTTCTGCATATCTGTCAGCTTTTATAGCAGTCTTATGCAGCATCTCA		
6623 T	A	S		ATTCCCTATGACTTGCTAATGAATACAGTATTTTTTTCTGCATATCTGTCAGCTTTTATAGCAGTCTTATGCAGCATCTCA		
				AACCCTGCCCATATTCTCCCTTCTATTCACTGTAATTCCCTATGACTTGCTAATGAATAC[CA]GTATTTTTTTCTGCATATCTGTCAGCTTTTATAGCAGTCTTA		
6623 IS	[CA]			TGCAGCATCTCAGTGATT	MULTIPLE	MULTIPLE
6689 I		A		GGTTGAAGTCAGATTTGCAGCTTTCTAGGCAGGAGAA		
6689 P	T	A		CGCGCCGAGGTAAGACAATCTGCATCTTCACY		
6689 P	C	A		ATGACGTGGCAGACCAAGACAATCTGCATCTTCAY		
6689 T	T	A		TCCTGTGAAGATGCAGATTGTCTTATCTCCTGCCTAGAAAGCTGCAAATCTGACTTCAACCTC		
6689 T	C	A		TCCTGTGAAGATGCAGATTGTCTTGTCTCCTGCCTAGAAAGCTGCAAATCTGACTTCAACCTC		
				GAAGGACATGAATAAAGCACAGGAGGTTGAAGTCAGATTTGCAGCTTTCTAGGCAGGAGA[TC]AAGACAATCTGCATCTTCACAGGAGGGATGGCCATGCT		
6689 IS	[TC]			CCTGGGGGCATCAGTGCTGATT	ctg12369	1
6693 I		A		AGGGAGACGTGGACAGAAAGGGGAAAAAAGAAAAGAGC		
6693 P	G	A		ATGACGTGGCAGACGAGTGAGAGAGACCTGCY		
6693 P	T	A		CGCGCCGAGGTAGTGAGAGAGACCTGCY		
6693 T	G	A		CTACGCAGGTCTCTCTCACTCCTCTTTTCTTTTTTCCCCTTTCTGTCCACGTCTCCCTTC		
6693 T	T	A		CTACGCAGGTCTCTCTCACTACTCTTTTCTTTTTTCCCCTTTCTGTCCACGTCTCCCTTC		

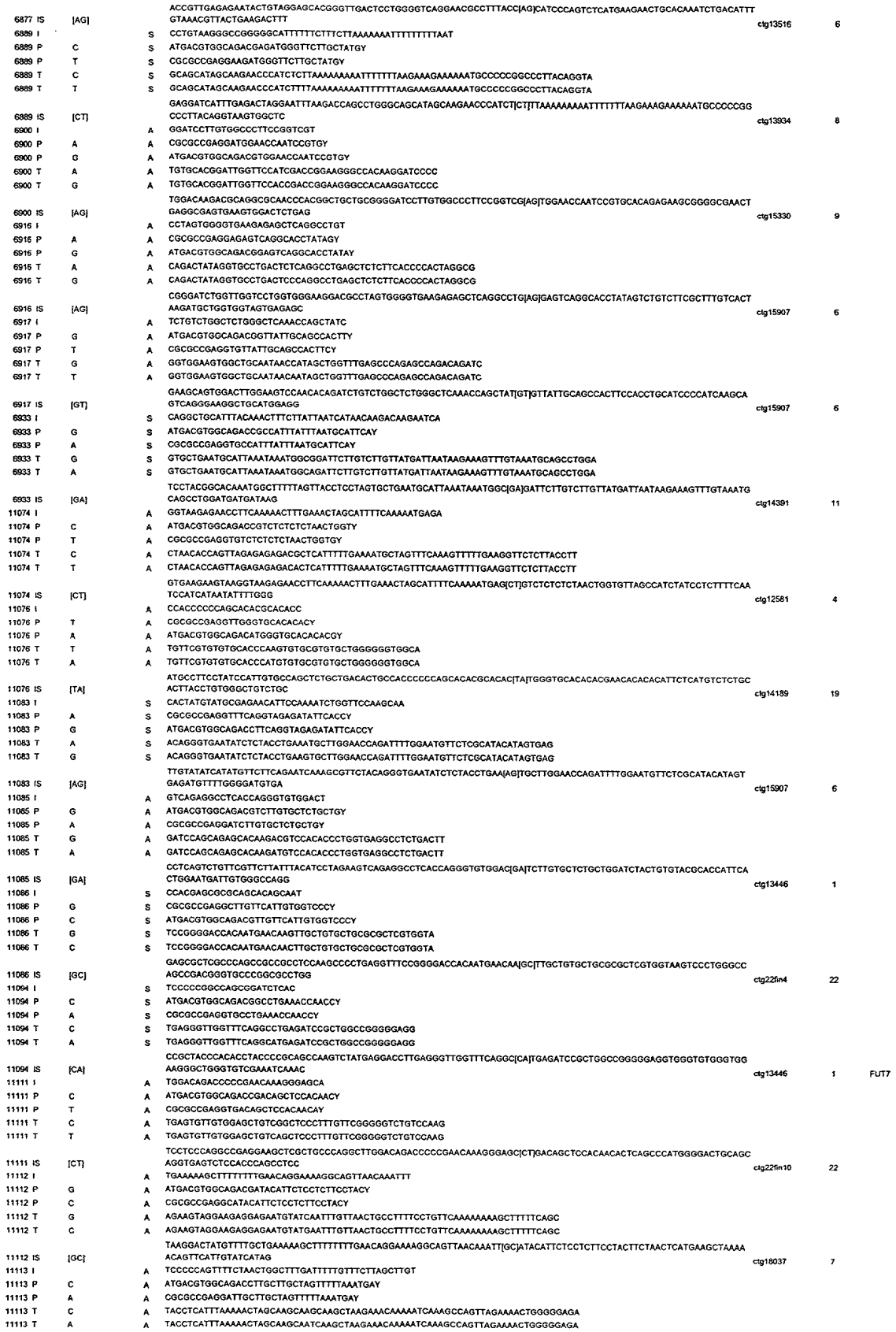
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FIGURE 129E



Application No. 10/501,687 Amendment dated March 26, 2007 Reply to Office Action of September 26, 2006

FIGURE 129E



Applicant's Docket No. 2007-0127.02 Filed: June 26, 2007

FIGURE 129E

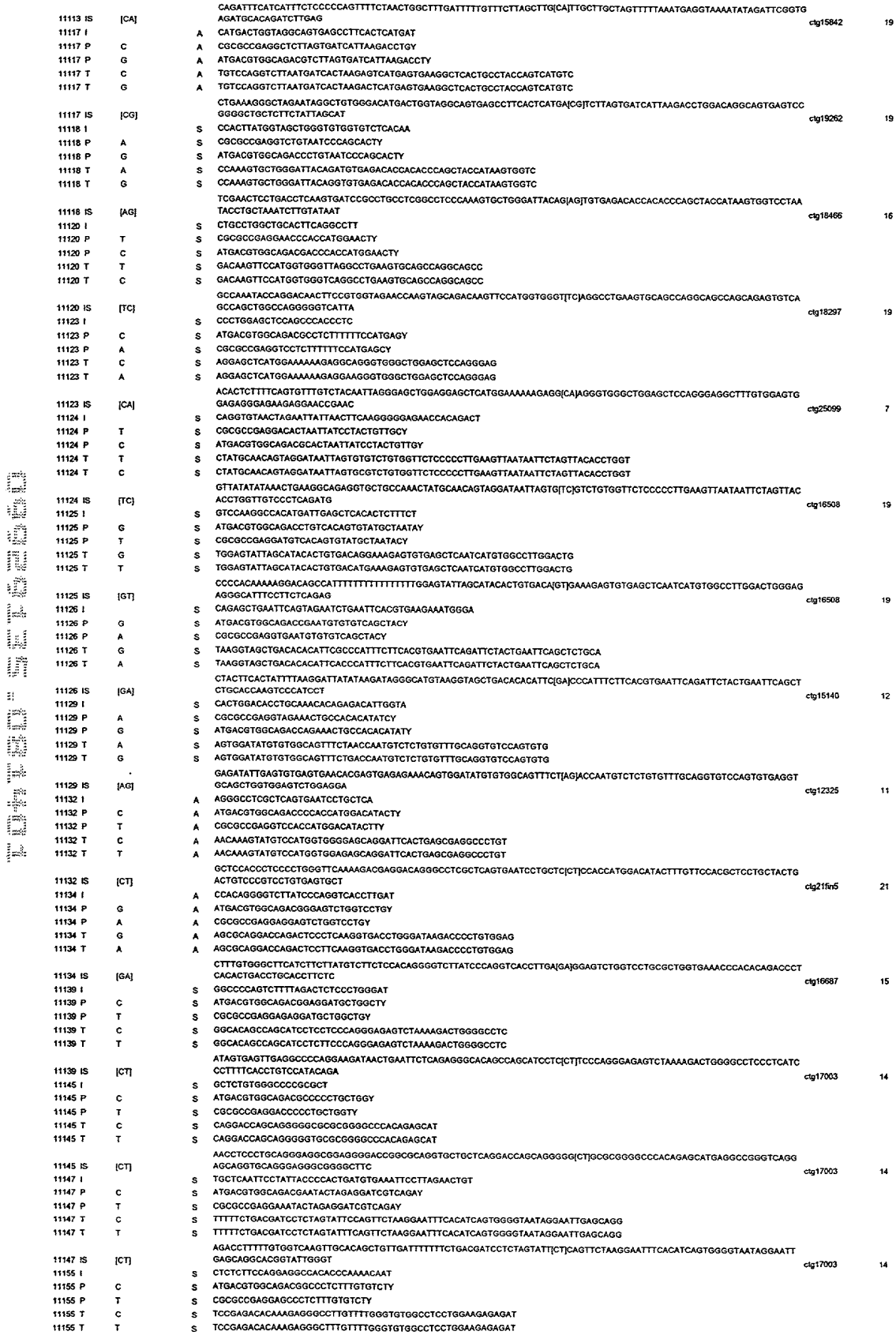


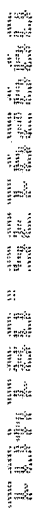
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FIGURE 129E

				TTAACAGGGGCAGCCGGCGGAGCACTATACGGCCACTGTTCTCCGAGACACAAAGAGGGC[CT]TTGTTTTGGGTGTGGCCTCCTGGAAGAGAGATGGGGA			
11155	IS	[CT]		GTACAGGCTGCTCCACACCGTCC	ctg2846	11	
11160	I		S	GGATCAGCAAAGGCCTAAGGCCAGGTACCT			
11160	P	C	S	ATGACGTGGCAGACGTGGGTCATGCCTGTY			
11160	P	T	S	CGCGCCGAGGATGGGTCATGCCTGTAY			
11160	T	C	S	TGATTACAGGCATGACCCACGGTACCTGGCCTTAGGCCTTTGCTGATCCAT			
11160	T	T	S	TGATTACAGGCATGACCCATGGTACCTGGCCTTAGGCCTTTGCTGATCCAT			
				GGGTTCAATAGATTCTCTTGTTTTGGCCTCCCAAAGTGCCGTGATTACAGGCATGACCCA[CT]GGTACCTGGCCTTAGGCCTTTGCTGATCCATCGGCCCTC			
11160	IS	[CT]		TCAGTACTTCCCTTGGTGTAT	ctg22fin3	22	
11211	I		S	GCCATGTGTGTGGATGTGCACGTTTTGGTA			
11211	P	G	S	ATGACGTGGCAGACCTGAGAACTTACAAGCCTAAAY			
11211	P	A	S	CGCGCCGAGGTTGAGAACTTACAAGCCTAAAY			
11211	T	G	S	TGACTTTAGGCTTGTAAGTTCTCAGACCAAAACGTGCACATCCACACACATGGCAC			
11211	T	A	S	TGACTTTAGGCTTGTAAGTTCTCAAACCAAAACGTGCACATCCACACACATGGCAC			
				GAACGGGAAGCATACGGGTAGGGGAGGCATCAGTCGTGACTTTAGGCTTGTAAGTTCTCA[GA]ACCAAAACGTGCACATCCACACACATGGCACCGCAGCC			
11211	IS	[GA]		AAGCAGAGGCCGGTGAAAGGCA	ctg22fin3	22	
11213	I		A	CCTTCCACTGGACTGATCTCCTTACTGCCCCT			
11213	P	G	A	ATGACGTGGCAGACGGGCCTCAGTTTCCTY			
11213	P	A	A	CGCGCCGAGGAGGCCTCAGTTTCCTCY			
11213	T	G	A	AGATGAGGAAACTGAGGCCCGGGGCAGTAAGGAGATCAGTCCAGTGGAAGGCC			
11213	T	A	A	AGATGAGGAAACTGAGGCCTGGGGCAGTAAGGAGATCAGTCCAGTGGAAGGCC			
				GAGGACAGTGCAGGAAGCCAGGCCTGTGGCCTTCCACTGGACTGATCTCCTTACTGCCCC[GA]GGCCTCAGTTTCCTCATCTGTCTTTTGGGTTAAACGGG			
11213	IS	[GA]		GTCGTGGCGAGGATTAAGACAG	ctg22fin6	22	
11226	I		S	CGAGGCGGGCTCACCCGGGT			
11226	P	G	S	ATGACGTGGCAGACCCCTGGGTTCGCTY			
11226	P	T	S	CGCGCCGAGGACCTGGGTTCGCTCY			
11226	T	G	S	ATCAGAGCGAACCCAGGGCCCGGGTGAGCCCGCCTCGGC			
11226	T	T	S	ATCAGAGCGAACCCAGGTCCCGGGTGAGCCCGCCTCGGC			
				GTCATCTGCCAGCTCTCCAAGGAGCTGGCGGGAAACCGCTGCAATCAGAGCGAACCCAGG[GT]CCCGGGTGAGCCCGCCTCGGCACAGCACTCCAGCTG			
11226	IS	[GT]		CCCCCAGTGCCTTTTGGGGACACA	ctg22fin4	22	
11242	I		A	CTCTGACCAGAGCTTCTAGAAGCGTTTCCCTCTCA			
11242	P	C	A	ATGACGTGGCAGACCGTGGGCAGCCCY			
11242	P	T	A	CGCGCCGAGGTGTGGGCAGCCCY			
11242	T	C	A	GCTGGGGCTGCCCACGGAGAGGGAAACGCTTCTAGAAGCTCTGGTCAGAGCA			
11242	T	T	A	GCTGGGGCTGCCCACAGAGAGGGAAACGCTTCTAGAAGCTCTGGTCAGAGCA			
				AGCCGGAGTGCACAGAGTCATCCTTGCTCTGACCAGAGCTTCTAGAAGCGTTTCCCTCTC[CT]GTGGGCAGCCCCAGCGGCTTCAGAGAAGAGCAAACCG			
11242	IS	[CT]		CCAGTGCGCTCAGCTGTGAAATT	ctg22fin4	22	
11243	I		S	TGCCCAGACAGCTACACTGAGAGACCTCCA			
11243	P	G	S	ATGACGTGGCAGACCGACTGGAGAAGAAGGCY			
11243	P	A	S	CGCGCCGAGGTGACTGGAGAAGAAGGCY			
11243	T	G	S	CCGGGCCTTCTTCTCCAGTCGGGAGGTCTCTCAGTGTAGCTGTCTGGGCAGC			
11243	T	A	S	CCGGGCCTTCTTCTCCAGTCAGGAGGTCTCTCAGTGTAGCTGTCTGGGCAGC			
				AGCTGTGAAATTGTCTCTGACAGGCCTGACCCTGGAGGCCCCGGGCCTTCTTGTCCAGTC[GA]GGAGGTCTCTCAGTGTAGCTGTCTGGGCAGCCCTTGG			
11243	IS	[GA]		CATGGCTAGAGCTGTGCTCCTGC	ctg22fin4	22	
11244	I		S	CGTGGTCCCCGCTTCCCTCCCTCA			
11244	P	A	S	CGCGCCGAGGTATGTCCGATGAGGCTGY			
11244	P	G	S	ATGACGTGGCAGACCATGTCCGATGAGGCTY			
11244	T	A	S	GGCACAGCCTCATCGGACATAGAGGGAGGGAAGCGGGGACCACGCC			
11244	T	G	S	GGCACAGCCTCATCGGACATGGAGGGAGGGAAGCGGGGACCACGCC			
				ACCAGAAGCTGGCTCTGAGGTTTCCTGTGCAAGGGAACTTGGCACAGCCTCATCGGACAT[AG]GAGGGAGGGAAGCGGGGACCACGCCCTGCAGCTTCAC			
11244	IS	[AG]		ACCTGTCGCTGCTGCTCTGGGTG	MULTIPLE	MULTIPLE	
11247	I		S	GACCATGGGCGAGGCTCCCCACT			
11247	P	C	S	ATGACGTGGCAGACGCTATCTCCACCACCAY			
11247	P	T	S	CGCGCCGAGGACTATCTCCACCACCACY			
11247	T	C	S	GACTGTGGTGGTGGAGATAGCGTGGGGAGCCTCGCCCATGGTCTC			
11247	T	T	S	GACTGTGGTGGTGGAGATAGTGTGGGGAGCCTCGCCCATGGTCTC			
				TGGAGCCCCAGGCCACAGGCCAGTCTCGCTTGGCTCTCATGACTGTGGTGGTGGAGATAG[CT]GTGGGGAGCCTCGCCCATGGTCTCACGTGGCAAGAA			
11247	IS	[CT]		GTGCCTTTAGCTCTGGATCCCAAC	MULTIPLE	MULTIPLE	GTF3C5
11253	I		A	GGTGATCTGCACTTCACTGTAATATTCTAGGAGTGGATTTCTCAATTTTC			
11253	P	T	A	CGCGCCGAGGTATCATTCCTTGGTAATTTAGATCTY			
11253	P	G	A	ATGACGTGGCAGACGATCATTCCTTGGTAATTTAGATCY			
11253	T	T	A	TCCCAGATCTAAATTACCAAGGAATGATAAAAATTGAGAAATCCACTCCTAGAATATTACAGTGAAGTGCAGATCACCCA			
11253	T	G	A	TCCCAGATCTAAATTACCAAGGAATGATCAAAATTGAGAAATCCACTCCTAGAATATTACAGTGAAGTGCAGATCACCCA			
				CTCCTTTCCTGGGTGATCTGCACTTCACTGTAATATTCTAGGAGTGGATTTCTCAATTTT[TG]ATCATTCCTTGGTAATTTAGATCTGGGATCTCATGTCTTTT			
11253	IS	[TG]		CAATTCTGAAAAATTCTGA	ctg22fin1	22	
11256	I		A	ACCTCTCTTCCTGCACTCTGCCGGCA			
11256	P	C	A	ATGACGTGGCAGACCCCCTAGAAGAAACTTCTGY			
11256	P	T	A	CGCGCCGAGGTCCCTAGAAGAAACTTCTGAY			
11256	T	C	A	AATATCAGAAGTTTCTTCTAGGGGGCCGGCAGAGTGCAGGAAGAGAGGTGG			
11256	T	T	A	AATATCAGAAGTTTCTTCTAGGGAGCCGGCAGAGTGCAGGAAGAGAGGTGG			
				CCGCTCAGCTGTCTTGGGGCCTGGGGGCGGCTCCCACCTCTCTTCCTGCACTCTGCCGGC[CT]CCCTAGAAGAAACTTCTGATATTGATGTTGGGCCCCA			
11256	IS	[CT]		CAGCCCTGCCATTGCCCAATGCA	ctg22fin1	22	
11257	I		S	CCAGCCTGGCTGTTCCTTGTCCCCT			
11257	P	T	S	CGCGCCGAGGACCAGGTTCAACAACGY			
11257	P	C	S	ATGACGTGGCAGACGCCAGGTTCAACAACGY			
11257	T	T	S	TCCTCGTTGTTGAACCTGGTGGGGACAAGGAACAGCCAGGCTGGGG			
11257	T	C	S	TCCTCGTTGTTGAACCTGGCGGGGACAAGGAACAGCCAGGCTGGGG			
				TGAACTGCTGAGACACGGACGCCTGAGGGCAGGTGCAGACATCCTCGTTGTTGAACCTGG[TC]GGGGACAAGGAACAGCCAGGCTGGGGAGCAGCTGAC			
11257	IS	[TC]		GGGCAGGGAGCCCAGTGGGCACCA	MULTIPLE	22	
11258	I		S	CCCAGCCTGGCTGTTCCTTGTCCCT			
11258	P	G	S	CGCGCCGAGGCACCAGGTTCAACAACGY			
11258	P	C	S	ATGACGTGGCAGACGACCAGGTTCAACAACGY			
11258	T	G	S	TCCTCGTTGTTGAACCTGGTGGGGACAAGGAACAGCCAGGCTGGGGA			
11258	T	C	S	TCCTCGTTGTTGAACCTGGTCGGGACAAGGAACAGCCAGGCTGGGGA			
				GAACTGCTGAGACACGGACGCCTGAGGGCAGGTGCAGACATCCTCGTTGTTGAACCTGGT[GC]GGGACAAGGAACAGCCAGGCTGGGGAGCAGCTGACG			
11258	IS	[GC]		GGCAGGGAGCCCAGTGGGCACCAG	ctg22fin4	22	
11272	I		A	AGCTTGCAAGGCAGAAAAAGGCAGGAAGAAGTCA			
11272	P	T	A	CGCGCCGAGGTCCTGGGCCATGGY			
11272	P	C	A	ATGACGTGGCAGACCCCTGGGCCATGGY			
11272	T	T	A	CAGCCCATGGCCCAGGAGACTTCTTCCTGCCTTTTTCTGCCTTGCAAGCTGG			
11272	T	C	A	CAGCCCATGGCCCAGGGGACTTCTTCCTGCCTTTTTCTGCCTTGCAAGCTGG			
				CAATCCAGTGGAGTGATCCTTCTGTCCAGCTTGCAAGGCAGAAAAAGGCAGGAAGAAGTC[TC]CCTGGGCCATGGGCTGCCTCTCAGGGTGGGGTTCTTTT			
11272	IS	[TC]		GGGAGCCAGGAACTGTAAGAAA	ctg22fin4	22	
11294	I		S	CTTTCTCCTCCTGTCCTCACAGATACAGGAAGTTACTGTTT			
11294	P	C	S	ATGACGTGGCAGACGCCAGTTTCTAACTTTACTCAY			
11294	P	T	S	CGCGCCGAGGACCAGTTTCTAACTTTACTCAAY			
11294	T	C	S	GGACTTGAGTAAAGTTAGAAACTGGCAACAGTAACTTCCTGTATCTGTGAGGACAGGAGGAGAAAGGC			
11294	T	T	S	GGACTTGAGTAAAGTTAGAAACTGGTAACAGTAACTTCCTGTATCTGTGAGGACAGGAGGAGAAAGGC			

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FIGURE 129E



				TGCCTTTCTCTCCTGCAGGTCTCTGTCTGAGAAAGGGACTTGAGTAAAGTTAGAAACTGG[CT]AACAGTAACTTCCTGTATCTGTGAGGACAGGAGGAGAAA		
11294	IS	[CT]		GGCTAGGGAAACTGGAGGGGG	ctg22fin4	22
11314	I		S	CCACCACGCCCAGCTAATTTTTGTATTTTTAGTAGAAACAGGTA		
11314	P	G	S	ATGACGTGGCAGACCTCACCATGTTGGCCY		
11314	P	A	S	CGCGCCGAGGTTCACCATGTTGGCCAY		
11314	T	G	S	ACCCTGGCCAACATGGTGAGACCTGTTTCTACTAAAAATACAAAAATTAGCTGGGCGTGGTGGTG		
11314	T	A	S	ACCCTGGCCAACATGGTGAAACCTGTTTCTACTAAAAATACAAAAATTAGCTGGGCGTGGTGGTG		
				AGGCTAACGTGGGAGGATCACGAGGTCAAGAGATTGAGCCCACCCTGGCCAACATGGTGA[GA]ACCTGTTTCTACTAAAAATACAAAAATTAGCTGGGCGT		
11314	IS	[GA]		GGTGGTGGGTACCTGTAATCCC	ctg22fin4	22
11322	I		S	GGGCAAGTAAGAAATAAACCCTGTTACCCAACAGGTGT		
11322	P	T	S	CGCGCCGAGGATGTGAAGCTGTAACTGTCY		
11322	P	G	S	ATGACGTGGCAGACCTGTGAAGCTGTAACTGTCY		
11322	T	T	S	ATATGACAGTTACAGCTTCACATCACCTGTTGGGTAACAGGGTTTATTTCTTACTTGCCCGC		
11322	T	G	S	ATATGACAGTTACAGCTTCACAGCACCTGTTGGGTAACAGGGTTTATTTCTTACTTGCCCGC		
				TCTGGTTAGCATGTATAGCAAGTGGAATTTCACCACATATATGACAGTTACAGCTTCACA[TG]CACCTGTTGGGTAACAGGGTTTATTTCTTACTTGCCCGCT		
11322	IS	[TG]		ACATCTGCTATTTGGATTGT	ctg22fin4	22
11323	I		S	GTTGAGAAGCTACCCGCGGGGTTGTAGACA		
11323	P	G	S	ATGACGTGGCAGACCTCGGACCTCATGGCY		
11323	P	A	S	CGCGCCGAGGTTCGGACCTCATGGCY		
11323	T	G	S	CTCTGCCATGAGGTCCGAGGTCTACAACCCCGCGGGTAGCTTCTCAACAG		
11323	T	A	S	CTCTGCCATGAGGTCCGAAGTCTACAACCCCGCGGGTAGCTTCTCAACAG		
				TTCCAATTCCGGGAGCCGATCTTCTATGCGTTCCTGAATTATCTCTGCCATGAGGTCCGA[GA]GTCTACAACCCCGCGGGTAGCTTCTCAACAGCGAACAC		
11323	IS	[GA]		GAGCAGGAAGCTCCCGGTTTCA	ctg22fin4	22
11344	I		A	AGAGCAGGCTGGAGGAACTGGGGGT		
11344	P	A	A	CGCGCCGAGGACTCTTCGGGATGAGTCY		
11344	P	G	A	ATGACGTGGCAGACGCTCTTCGGGATGAGTY		
11344	T	A	A	TCCTGACTCATCCCGAAGAGTCCCCCAGTTCCTCCAGCCTGCTCTAC		
11344	T	G	A	TCCTGACTCATCCCGAAGAGCCCCCCAGTTCCTCCAGCCTGCTCTAC		
				GCCAGTAGAGGAGGCTAGAGGAACTGGGGGGCCAGTAGAGCAGGCTGGAGGAACTGGGGG[AG]CTCTTCGGGATGAGTCAGGAGTGGGCAGCTGACCT		
11344	IS	[AG]		GGGACCTTTCCAGGGACAGTTTGAA	ctg22fin4	22
11345	I		A	ACCCATGTATCCACTGCTGCCCCCAA		
11345	P	T	A	CGCGCCGAGGTTGTTGTGAATGTCCAGAAY		
11345	P	C	A	ATGACGTGGCAGACCTGTTGTGAATGTCCAGAAY		
11345	T	T	A	GGACTTCTGGACATTCACAACAATGGGGGCAGCAGTGGATACATGGGTAT .		
11345	T	C	A	GGACTTCTGGACATTCACAACAGTGGGGGCAGCAGTGGATACATGGGTAT		
				TATCTGCTTAGTAACCCACTAGCTGCAGAGGATACCCATGTATCCACTGCTGCCCCCA[TC]TGTTGTGAATGTCCAGAAGTCCTGAGCTTTGAGCTCTGTCC		
11345	IS	[TC]		ACCATGTTTTATTTCCTGA	ctg22fin1	22
11346	I		A	CCAAAATACATCATGAAATTATCGCAATTAAGTTTACCCAAAAGCTACT		
11346	P	A	A	CGCGCCGAGGAATGTACACTATTTTCAGCCCY		
11346	P	G	A	ATGACGTGGCAGACGATGTACACTATTTTCAGCCCY		
11346	T	A	A	AGATGGGCTGAAAATAGTGTACATTGTAGCTTTTGGGTAAACTTAATTGCGATAATTTCATGATGTATTTTGGTA		
11346	T	G	A	AGATGGGCTGAAAATAGTGTACATCGTAGCTTTTGGGTAAACTTAATTGCGATAATTTCATGATGTATTTTGGTA		
				TCTAAGAAGTTACCAAAATACATCATGAAATTATCGCAATTAAGTTTACCCAAAAGCTAC[AG]ATGTACACTATTTTCAGCCCATCTATTCCCATCTCCAGCCA		
11346	IS	[AG]		TGCCTGGCTACATTTTCCT		
11366	I		A	GCACTAATGCCTGTGATTAAACCCCAAGCTGGCT		
11366	P	G	A	ATGACGTGGCAGACGAGTAATTCCGCCACCY		
11366	P	A	A	CGCGCCGAGGAAGTAATTCCGCCACCTY		
11366	T	G	A	GGAAAGGTGGCGGAATTACTCGCCAGCTTGGGGTTTAATCACAGGCATTAGTGCTG		
11366	T	A	A	GGAAAGGTGGCGGAATTACTTGCCAGCTTGGGGTTTAATCACAGGCATTAGTGCTG		
				GGCCCAGGACTTCTCAGAGCCTCTGCAGCACTAATGCCTGTGATTAAACCCCAAGCTGGC[GA]AGTAATTCCGCCACCTTTCCAAAATGTATTGAGCCAGCA		
11366	IS	[GA]		GGCTCCAGACTGGGCTTGCTG	ctg22fin4	22
11368	I		A	GGATGTGCCTGGCACACATGCTCATGTGA		
11368	P	T	A	CGCGCCGAGGTGAGTCTGCGTGTGAGY		
11368	P	C	A	ATGACGTGGCAGACCGAGTCTGCGTGTGAY		
11368	T	T	A	TGTGCTCACACGCAGACTCACACATGAGCATGTGTGCCAGGCACATCCAA		
11368	T	C	A	TGTGCTCACACGCAGACTCGCACATGAGCATGTGTGCCAGGCACATCCAA		
				GCGTGTGTCTGTGTGAGCCTGTACATGTGATTGGATGTGCCTGGCACACATGCTCATGTG[TC]GAGTCTGCGTGTGAGCACACTGGCACACACGGGCACAT		
11368	IS	[TC]		TCAAGTGTATCTTAGTGCCTGC	ctg22fin4	22
11376	I		S	CGCCCAAGCCTTCCTCACCAACCCA		
11376	P	G	S	ATGACGTGGCAGACCACCGCACCCCAAY		
11376	P	A	S	CGCGCCGAGGTACCGCACCCCAAAY		
11376	T	G	S	GAACTTTGGGGTGCGGTGGGGTTGGTGAGGAAGGCTTGGGCGGG		
11376	T	A	S	GAACTTTGGGGTGCGGTAGGGTTGGTGAGGAAGGCTTGGGCGGG		
				GAAGTGAAGAGATTGCCCAGGGATTCACAGCAGGCCAGCGGCAGAACTTTGGGGTGCGGT[GA]GGGTTGGTGAGGAAGGCTTGGGCGGGGCCTCTGCTT		
11376	IS	[GA]		GAAGGCCACACCCTGGGCAAGATG		
11394	I		S	TCATAAAATGTGAAGATACGCCTCATATTACTAGAAATTGCATTGTT		
11394	P	C	S	ATGACGTGGCAGACGCAGGAACTATAGCCAATGY		
11394	P	T	S	CGCGCCGAGGACAGGAACTATAGCCAATGY		
11394	T	C	S	TCAGCATTGGCTATAGTTCCTGCACAATGCAATTTCTAGTAATATGAGGCGTATCTTCACATTTTATGACA		
11394	T	T	S	TCAGCATTGGCTATAGTTCCTGTACAATGCAATTTCTAGTAATATGAGGCGTATCTTCACATTTTATGACA		
				TCCACACTTATTTTCTGCCTTAAAGGCCAGACATGATCTCAGCATTGGCTATAGTTCCTG[CT]ACAATGCAATTTCTAGTAATATGAGGCGTATCTTCACATTT		
11394	IS	[CT]		TATGACAAATTGATTTTAA	ctg13446	1
11397	I		A	CTTGACCTTTCTTTACATTATGCATTTCCCCAACCTTTTAGCTCTTTTAATGATAA		
11397	P	T	A	CGCGCCGAGGTGAAAGAACAATAAATACTGAGCY		
11397	P	C	A	ATGACGTGGCAGACCGAAAGAACAATAAATACTGAGCY		
11397	T	T	A	ATGAGCTCAGTATTTATTGTTCTTTCATATCATTAAAAGAGCTAAAAGGTTGGGGAAATGCATAATGTAAAGAAAGGTCAAGTG		
11397	T	C	A	ATGAGCTCAGTATTTATTGTTCTTTCGTATCATTAAAAGAGCTAAAAGGTTGGGGAAATGCATAATGTAAAGAAAGGTCAAGTG		
				TACCACTTGACCTTTCTTTACATTATGCATTTCCCCAACCTTTTAGCTCTTTTAATGATA[TC]GAAAGAACAATAAATACTGAGCTCATTCAAGCATATAATGGA		
11397	IS	[TC]		TGTGGATCTTGAACATCA	ctg16829	1
11404	I		A	CCACCCAACCCTCATTCCCCCAGTGTGA		
11404	P	C	A	ATGACGTGGCAGACCTGGAGGCCTCTCGY		
11404	P	T	A	CGCGCCGAGGTTGGAGGCCTCTCGY		
11404	T	C	A	CATCCGAGAGGCCTCCAGCACACTGGGGGAATGAGGGTTGGGTGGGC		
11404	T	T	A	CATCCGAGAGGCCTCCAACACACTGGGGGAATGAGGGTTGGGTGGGC		
				TTAAGCAAGCTCACATCCCCTCATCCCACTGGCCCACCCAACCCTCATTCCCCCAGTGTG[CT]TGGAGGCCTCTCGGATGGGCATGGAGATGGCACACACT		
11404	IS	[CT]		GACCTGCATAGCTCCGCCCCGT	ctg15972	16
11417	I		S	GGAGTGCAATGGCGTGATCTTGGCTCGT		
11417	P	G	S	ATGACGTGGCAGACCTGCAACCTCCACCTY		
11417	P	T	S	CGCGCCGAGGATGCAACCTCCACCTY		
11417	T	G	S	CGGGAGGTGGAGGTTGCAGCGAGCCAAGATCACGCCATTGCACTCCAG		
11417	T	T	S	CGGGAGGTGGAGGTTGCATCGAGCCAAGATCACGCCATTGCACTCCAG		
				CCCAGCTACTCGAGACCCTGAGGCAGGAGGATCACTTGAACCCGGGAGGTGGAGGTTGCA[GT]CGAGCCAAGATCACGCCATTGCACTCCAGCCTGGGCA		
11417	IS	[GT]		ACAAGAGCGAGAATCTGTCTCAA		
11424	I		A	ACCCCAGCTCACCCCTACCACTGAGTT		
11424	P	G	A	ATGACGTGGCAGACGACCCAGAGGAGAGTCY		
11424	P	A	A	CGCGCCGAGGAACCCAGAGGAGAGTCTY		
11424	T	G	A	AATGAGACTCTCCTCTGGGTCACTCAGTGGTAGGGGTGAGCTGGGGTGG		
11424	T	A	A	AATGAGACTCTCCTCTGGGTTACTCAGTGGTAGGGGTGAGCTGGGGTGG		

FIGURE 129E

				GAGTCTCATTCCTCTCCTAGCGGTCAGTGAGGCCACCCCAGCTCACCCCTACCACTGAGT[GA]ACCCAGAGGAGAGTCTCATTCCTCTCCTAGCTGTCAGT		
11424 IS	[GA]			GAGGTCACCCCAGCTCAGGCCT		
11425 I			S	CACCAGGAGCACAGATGTGTTCATGCTGAATGTGA		
11425 P	G		S	ATGACGTGGCAGACCGCTCATGCACACAGY		
11425 P	A		S	CGCGCCGAGGTGCTCATGCACACAGY		
11425 T	G		S	CTACCTGTGTGCATGAGCGCACATTCAGCATGAACACATCTGTGCTCCTGGTGGC		
11425 T	A		S	CTACCTGTGTGCATGAGCACACATTCAGCATGAACACATCTGTGCTCCTGGTGGC		
				TTAATCTCCTCTGCCACTGGGGAAACTCGGGAGCGACTACTGCTACCTGTGTGCATGAGC[GA]CACATTCAGCATGAACACATCTGTGCTCCTGGTGGCCA		
11425 IS	[GA]			CCTGTCTGGCTCCGGCTCTGGA	ctg17253	1
11430 I			A	TCCATGTGTAAAGTTAGAAGGATAACTATGTAGTAATACTTTTTTTTCCCAT		
11430 P	G		A	ATGACGTGGCAGACGAAACAAGAGTCTTGCTCTY		
11430 P	A		A	CGCGCCGAGGAAAACAAGAGTCTTGCTCTGY		
11430 T	G		A	GTGGCAGAGCAAGACTCTTGTTTCTGGGAAAAAAAAGTATTACTACATAGTTATCCTTCTAACTTTACACATGGAAT		
11430 T	A		A	GTGGCAGAGCAAGACTCTTGTTTTTGGGAAAAAAAAGTATTACTACATAGTTATCCTTCTAACTTTACACATGGAAT		
				CAAACAGATTCCATGTGTAAAGTTAGAAGGATAACTATGTAGTAATACTTTTTTTTCCCA[GA]AAACAAGAGTCTTGCTCTGCCACCCAGGCTGGAGTGCAGA		
11430 IS	[GA]			GGCTGCATAGCTCACTGCAG	ctg17326	12
11444 I			S	CTGGTTTCTGAGGTTCATTAGGATCTTTCTTTTTTCTCTTCTTTGGGAT		
11444 P	G		S	ATGACGTGGCAGACCCTTCTGCTTTTTCCCTGY		
11444 P	T		S	CGCGCCGAGGACTTCTGCTTTTTCCCTGY		
11444 T	G		S	GAAGCAGGGAAAAAGCAGAAGGTCCCAAAGAAGAGAAAAAAGAAAGATCCTAATGAACCTCAGAAACCAGTT		
11444 T	T		S	GAAGCAGGGAAAAAGCAGAAGTTCCCAAAGAAGAGAAAAAAGAAAGATCCTAATGAACCTCAGAAACCAGTT		
				TTCTGGAGGCAAATTTCCAGCCAGAAGACAGTGGTGGTGGAAGCAGGGAAAAAGCAGAAG[GT]TCCCAAAGAAGAGAAAAAAGAAAGATCCTAATGAACCT		
11444 IS	[GT]			CAGAAACCAGTTTCAGCATATG	ctg16306	4
11448 I			A	TGCAGTCTCCTTGATTGTATTCTTTCTATATTTCAAGTTTAAATTTCTAGAGTTA		
11448 P	T		A	CGCGCCGAGGTTGCTTTCATTTAGAATGTAAAACAY		
11448 P	C		A	ATGACGTGGCAGACCTGCTTTCATTTAGAATGTAAAACY		
11448 T	T		A	ATGATGTTTTACATTCTAAATGAAAGCAAAACTCTAGAAATTTAAACTTGAAATATAGAAAGAATACAATCAAGGAGACTGCATA		
11448 T	C		A	ATGATGTTTTACATTCTAAATGAAAGCAGAACTCTAGAAATTTAAACTTGAAATATAGAAAGAATACAATCAAGGAGACTGCATA		
				AATTTATGCAGTCTCCTTGATTGTATTCTTTCTATATTTCAAGTTTAAATTTCTAGAGTT[TC]TGCTTTCATTTAGAATGTAAAACATCATAAGAGAAATGGCTC		
11448 IS	[TC]			TCACCCTAGCAATTGAAA	ctg17042	11
11450 I			A	GCCTCCCCCGGGGTCTACCGGA		
11450 P	C		A	ATGACGTGGCAGACCGCCACCTTCCTGGY		
11450 P	T		A	CGCGCCGAGGTGCCACCTTCCTGGY		
11450 T	C		A	ACCGCCAGGAAGGTGGCGCCGGTAGACCCCGGGGGAGGCAA		
11450 T	T		A	ACCGCCAGGAAGGTGGCACCGGTAGACCCCGGGGGAGGCAA		
				AGCTTCTCTGAGACCATGGGTGCTTACTAAGCAAGGATTGCCTCCCCCGGGGTCTACCGG[CT]GCCACCTTCCTGGCGGTATGCCGGGGAAACACTAGCG		
11450 IS	[CT]			AGGGGCTGGACTTCTCAGACACT	ctg14153	X
11451 I			A	CCTTAGAATGTATGTGGCATGTGTTCATTTTTCTATAATATTTCAAATGACTC		
11451 P	G		A	ATGACGTGGCAGACGTCCTCCAGAAATGAAAAGTY		
11451 P	T		A	CGCGCCGAGGTTCCTCCAGAAATGAAAAGTTY		
11451 T	G		A	GACAAACTTTTCATTTCTGGAGGACAGTCATTTGAAATATTATAGAAAAATGAACACATGCCACATACATTCTAAGGAA		
11451 T	T		A	GACAAACTTTTCATTTCTGGAGGAAAGTCATTTGAAATATTATAGAAAAATGAACACATGCCACATACATTCTAAGGAA		
				TATATTTTCCTTAGAATGTATGTGGCATGTGTTCATTTTTCTATAATATTTCAAATGACT[GT]TCCTCCAGAAATGAAAAGTTTGTCCTGATTCACTTGCAGTTT		
11451 IS	[GT]			TCAATTCAATATCTGATT	ctg18251	1
11456 I			A	GCTGAACATGGAACATGTTTTCTTGGAGCCATTTACAACTTAACTT		
11456 P	G		A	ATGACGTGGCAGACGGGACTATACCTACAGCTACY		
11456 P	A		A	CGCGCCGAGGAGGACTATACCTACAGCTACY		
11456 T	G		A	ACTGGTAGCTGTAGGTATAGTCCCAGTTAAGTTGTAAATGGCTCCAAGAAAACATGTTCCATGTTCAGCCC		
11456 T	A		A	ACTGGTAGCTGTAGGTATAGTCCTAGTTAAGTTGTAAATGGCTCCAAGAAAACATGTTCCATGTTCAGCCC		
				CTTCCCACTAGATGGGCTGAACATGGAACATGTTTTCTTGGAGCCATTTACAACTTAACT[GA]GGACTATACCTACAGCTACCAGTATAGATCCTGGACCTTA		
11456 IS	[GA]			AGAATGACCCCAAAACTCAA	ctg16114	X
11458 I			S	GTGTGCGTGTGTGTGTATGAAAAGTTGTAGCACACACATATATC		
11458 P	A		S	CGCGCCGAGGTAGATATTATTTGCCTGGCCY		
11458 P	C		S	ATGACGTGGCAGACGAGATATTATTTGCCTGGCCY		
11458 T	A		S	CATAGGCCAGGCAAATAATATCTAATATATGTGTGTGCTACAACTTTTCATACACACACACGCACACAC		
11458 T	C		S	CATAGGCCAGGCAAATAATATCTCATATATGTGTGTGCTACAACTTTTCATACACACACACGCACACAC		
				AGCAATCCAAGAATCCATAAGTATTCTAAGAACTGCCCATAGGCCAGGCAAATAATATCT[AC]ATATATGTGTGTGCTACAACTTTTCATACACACACACGCAC		
11458 IS	[AC]			ACACACATTAATAACACTC	ctg16574	1
11459 I			A	CGTCAGTGAATTTAGAACCTCTCAAAACCTGTTATTTGCTCTTTTTGCT		
11459 P	G		A	ATGACGTGGCAGACGAGACTTTTGTGTTCTTCCCY		
11459 P	A		A	CGCGCCGAGGAAGACTTTTGTGTTCTTCCCY		
11459 T	G		A	ACTTGGGAAGAACACAAAAGTCTCGCAAAAAGAGCAAATAACAGGTTTTGAGAGGTTCTAAATTCACTGACGGT		
11459 T	A		A	ACTTGGGAAGAACACAAAAGTCTTGCAAAAAGAGCAAATAACAGGTTTTGAGAGGTTCTAAATTCACTGACGGT		
				AATATTTATCACCGTCAGTGAATTTAGAACCTCTCAAAACCTGTTATTTGCTCTTTTGC[GA]AGACTTTTGTGTTCTTCCCAAGTTAGAGGCCAGTGATAATC		
11459 IS	[GA]			TCTTTCATTGACTTAACCC		
11461 I			A	CTGGGGATGATTTTCATATCCACCTTTAGTTTTCTGTTTTCCAGGA		
11461 P	C		A	ATGACGTGGCAGACCTAATTTTCTCCATTCCTTCAACY		
11461 P	T		A	CGCGCCGAGGTTAATTTTCTCCATTCCTTCAACY		
11461 T	C		A	AATGGTTGAAGGAATGGAGAAAATTAGCCTGGAAAACAGAAAACTAAAGGTGGATATGAAAATCATCCCCAGTA		
11461 T	T		A	AATGGTTGAAGGAATGGAGAAAATTAACCTGGAAAACAGAAAACTAAAGGTGGATATGAAAATCATCCCCAGTA		
				ACCATCCTTTAAATACTGGGGATGATTTTCATATCCACCTTTAGTTTTCTGTTTTCCAGG[CT]TAATTTTCTCCATTCCTTCAACCATTCCTGATGGAAGTGCC		
11461 IS	[CT]			ATTTCTAGATCTCTCCCTA	ctg19	19
11462 I			A	CAGTCCCCAAATTTTATTTCTCTCAATACGCAAATACATATCTTTCCTTCCTA		
11462 P	T		A	CGCGCCGAGGTTTGCAAATACCTTCCTCTTY		
11462 P	C		A	ATGACGTGGCAGACCTTGCAAATACCTTCCTCTTY		
11462 T	T		A	AGGCAAGAGGAAGGTATTTGCAAAAGGAAGGAAAGATATGTATTTGCGTATTGAGAGAAATAAAATTTGGGGACTGGG		
11462 T	C		A	AGGCAAGAGGAAGGTATTTGCAAGAGGAAGGAAAGATATGTATTTGCGTATTGAGAGAAATAAAATTTGGGGACTGGG		
				AACAGCCCCAGTCCCCAAATTTTATTTCTCTCAATACGCAAATACATATCTTTCCTTCCT[TC]TTGCAAATACCTTCCTCTTGCCTTTCACAAGATAAAAAAAAA		
11462 IS	[TC]			AAAATTAAAGCTTGTTTC	ctg12325	11
11483 I			A	ACAGTTGATCCAGAAGTTGGCACAGCTGGCT		
11483 P	G		A	ATGACGTGGCAGACGTGATACTGGTGCCCTY		
11483 P	A		A	CGCGCCGAGGATGATACTGGTGCCCTCY		
11483 T	G		A	TATGGAGGGCACCAGTATCACGCCAGCTGTGCCAACTTCTGGATCAACTGTGT		
11483 T	A		A	TATGGAGGGCACCAGTATCATGCCAGCTGTGCCAACTTCTGGATCAACTGTGT		
				CAGGACGAGGCCAGGAGGCTTTGGTTCGACACAGTTGATCCAGAAGTTGGCACAGCTGGC[GA]TGATACTGGTGCCCTCCATAGGCCAGCTTGAAACTGT		
11483 IS	[GA]			CTGTTTCTGAGTTGAATGCCTGC	ctg19	19
11518 I			S	GCCCTTGTTCTTTGTGAGGCATTCCCTTCCCT		
11518 P	C		S	ATGACGTGGCAGACGGTTCCAGGGCTGCY		
11518 P	G		S	CGCGCCGAGGCGTTCCAGGGCTGCY		
11518 T	C		S	GAGAGCAGCCCTGGAACCGGGAAGGGAATGCCTCACAAAGAACAAGGGCTG		
11518 T	G		S	GAGAGCAGCCCTGGAACGGGAAGGGAATGCCTCACAAAGAACAAGGGCTG		
				CAAGGAAAGGAAGAAGCGATGGAGGCTGCCTCTGCTAAACACCGAGAGCAGCCCTGGAAC[CG]GGGAAGGGAATGCCTCACAAAGAACAAGGGCTGTAGT		
11518 IS	[CG]			AGAGACTCATCCCTTAGAGTACT	ctg16911	9
11520 I			A	GCTTCCTCCTAAAGTACTCAGGGGCAGCCTCT		
11520 P	A		A	CGCGCCGAGGATACAGCCACTGTGCAY		
11520 P	G		A	ATGACGTGGCAGACGTACAGCCACTGTGCY		
11520 T	A		A	TAGATGCACAGTGGCTGTATGAGGCTGCCCCTGAGTACTTTAGGAGGAAGCTG		
11520 T	G		A	TAGATGCACAGTGGCTGTACGAGGCTGCCCCTGAGTACTTTAGGAGGAAGCTG		

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FIGURE 129E

				TGGGGCGGCTCAGTTTCTGGCGGTTCTCAGCTTCCTCCTAAAGTACTCAGGGGCAGCCTC[AG]TACAGCCACTGTGCATCTATGACGCAGAGGTCCCGCAT			
11520	IS	[AG]		GTAGCACTTGTTGGTGTAGAGC	ctg22fin4	22	DKFZp762F2011
11552	I		A	AAACTCCATAAACACAGTCAGAAACTATTAATTACAAACATACATAAATGCTTA			
11552	P	C	A	ATGACGTGGCAGACCCTGCTGTGTAGAAGAGAY			
11552	P	T	A	CGCGCCGAGGTCTGCTGTGTAGAAGAGAAY			
11552	T	C	A	TGTGTTCTCTTCTACACAGCAGGAAGCATTTATGTATGTTTGTAATTAATAGTTTCTGACTGTGTTTATGGAGTTTTT			
11552	T	T	A	TGTGTTCTCTTCTACACAGCAGAAAGCATTTATGTATGTTTGTAATTAATAGTTTCTGACTGTGTTTATGGAGTTTTT			
				AAAGAAAAAACTCCATAAACACAGTCAGAAACTATTAATTACAAACATACATAAATGCTT[CT]CTGCTGTGTAGAAGAGAACACACTGGCCTGGGAGGCAGAA			
11552	IS	[CT]		GATGTGGGTTCACAGTCCAG	ctg22fin5	22	
11557	I		S	TCTAGGCAGTTGCTGGGAACTGGCTAGAGACT			
11557	P	T	S	CGCGCCGAGGATAAGGTTAAGATGTGAGGAGAY			
11557	P	C	S	ATGACGTGGCAGACGTAAGGTTAAGATGTGAGGAGY			
11557	T	T	S	CCCATCTCCTCACATCTTAACCTTATGTCTCTAGCCAGTTCCCAGCAACTGCCTAGAGA			
11557	T	C	S	CCCATCTCCTCACATCTTAACCTTACGTCTCTAGCCAGTTCCCAGCAACTGCCTAGAGA			
				CAGATTACTTCCTTTCCCCTGTCCAGAAATCAAAACCCATCTCCTCACATCTTAACCTTA[TC]GTCTCTAGCCAGTTCCCAGCAACTGCCTAGAGACACTGTA			
11557	IS	[TC]		ACGCCTGGTCAGCCATCATC	ctg22fin6	22	
11560	I		A	GGCACAATAAATGCAATGCAGTTGACTCATCCA			
11560	P	C	A	ATGACGTGGCAGACCGGAGCCATCCTTCTY			
11560	P	T	A	CGCGCCGAGGTGGAGCCATCCTTCTTAY			
11560	T	C	A	GGGGTAAGAAGGATGGCTCCGGGATGAGTCAACTGCATTGCATTTATTGTGCCCT			
11560	T	T	A	GGGGTAAGAAGGATGGCTCCAGGATGAGTCAACTGCATTGCATTTATTGTGCCCT			
				TTACAATGTAATAATAATAGAAATAAAGGGCACAATAAATGCAATGCAGTTGACTCATCC[CT]GGAGCCATCCTTCTTACCCCTCACTGGTCTGTGGAAAAATT			
11560	IS	[CT]		GTCTTCCATGAAAGCAGTC			
11572	I		S	TCACTCTGTGTGTGATGAAGGTGCTATAGGTTATTGA			
11572	P	G	S	ATGACGTGGCAGACCACTGACCATGAATCTAGTTCY			
11572	P	A	S	CGCGCCGAGGTACTGACCATGAATCTAGTTCY			
11572	T	G	S	ATGGGAACTAGATTCATGGTCAGTGCAATAACCTATAGCACCTTCATCACACACAGAGTGAGA			
11572	T	A	S	ATGGGAACTAGATTCATGGTCAGTACAATAACCTATAGCACCTTCATCACACACAGAGTGAGA			
				TGGGTAGTAGCCACCTACAGCACCTTCTAAGTCATGATGGGAACTAGATTCATGGTCAGT[GA]CAATAACCTATAGCACCTTCATCACACACAGAGTGAGAG			
11572	IS	[GA]		GAATTAGACTTGATGACAGAG			NFE2L3
11633	I		A	GTGGGAACTGCTCTCACCTTTGACCAGGAACA			
11633	P	C	A	ATGACGTGGCAGACCTCCTGGTTCTAGAAGACAY			
11633	P	T	A	CGCGCCGAGGTTCCTGGTTCTAGAAGACAY			
11633	T	C	A	GATTTGTCTTCTAGAACCAGGAGGTTCCTGGTCAAAGGTGAGAGCAGTTCCCACTG			
11633	T	T	A	GATTTGTCTTCTAGAACCAGGAAGTTCCTGGTCAAAGGTGAGAGCAGTTCCCACTG			
				AAAACAAAGGCTTGCAATTTTCCTTAGCAGTGGGAACTGCTCTCACCTTTGACCAGGAAC[CT]TCCTGGTTCTAGAAGACAAATCCTTAAATCTCCTCCCATA			
11633	IS	[CT]		TCAGGCAGCCCACAGGATTC	ctg15379	X	
11634	I		A	CCTTCTTCACCATCTGGGAGCTCTGGGGT			
11634	P	C	A	ATGACGTGGCAGACCTCCTAGGCTTGGCAY			
11634	P	A	A	CGCGCCGAGGATCCTAGGCTTGGCACY			
11634	T	C	A	CAGTGTGCCAAGCCTAGGAGCCCCAGAGCTCCCAGATGGTGAAGAAGGGG			
11634	T	A	A	CAGTGTGCCAAGCCTAGGATCCCCAGAGCTCCCAGATGGTGAAGAAGGGG			
				CACTCTCCTGGGGTGAACCATCTGGGGATCCCCCTTCTTCACCATCTGGGAGCTCTGGGG[CA]TCCTAGGCTTGGCACACTGGGGGTTTGATCACTGCTTG			
11634	IS	[CA]		TGGGGGACTGAGACCTGCAGGG	ctg15665	20	
11691	I		A	CCATCTCTTGATCTGTGTGAGATACTGAAGAAATGTCTTCTTTTTCCTTCAA			
11691	P	T	A	CGCGCCGAGGTGGCTAACGCTTTACTAATCY			
11691	P	C	A	ATGACGTGGCAGACCGGCTAACGCTTTACTAATY			
11691	T	T	A	CTCAGATTAGTAAAGCGTTAGCCATGAAGGAAAAAGAAGACATTTCTTCAGTATCTCACACAGATCAAGAGATGGTT			
11691	T	C	A	CTCAGATTAGTAAAGCGTTAGCCGTGAAGGAAAAAGAAGACATTTCTTCAGTATCTCACACAGATCAAGAGATGGTT			
				AGTTCTGAACCATCTCTTGATCTGTGTGAGATACTGAAGAAATGTCTTCTTTTTCCTTCA[TC]GGCTAACGCTTTACTAATCTGAGAGGACTGTAACTTTTATC			
11691	IS	[TC]		CCAGTGAGGCCCTTTCCAG	ctg13390	6	
11699	I		S	GGGTAAACTCGCGAGGGGATCCTACCTCTTT			
11699	P	G	S	CGCGCCGAGGCCAGATGGTTCCACACY			
11699	P	C	S	ATGACGTGGCAGACGCAGATGGTTCCACACY			
11699	T	G	S	TCCCGTGTGGAACCATCTGGAAGAGGTAGGATCCCCTCGCGAGTTTACCCCG			
11699	T	C	S	TCCCGTGTGGAACCATCTGCAAGAGGTAGGATCCCCTCGCGAGTTTACCCCG			
				GACGACTTCGGAGGGCCCAGGGTCCTTTGAGCTCCTAGAGGTCCCGTGTGGAACCATCTG[GC]AAGAGGTAGGATCCCCTCGCGAGTTTACCCCGGACGT			
11699	IS	[GC]		GTGGCGAATAAAGTTAAGCATTT	ctg14932	16	
11702	I		A	CCTGTGTGTCTGTTGGGCATAGGTGCAACAT			
11702	P	G	A	ATGACGTGGCAGACGGTATACCCCACGTAACAY			
11702	P	A	A	CGCGCCGAGGAGTATACCCCACGTAACATY			
11702	T	G	A	TCATATGTTACGTGGGGTATACCTGTTGCACCTATGCCCAACAGACACACAGGTA			
11702	T	A	A	TCATATGTTACGTGGGGTATACTTGTTGCACCTATGCCCAACAGACACACAGGTA			
				CAAACAAACAAACAAACAAACAAACACCTACCTGTGTGTCTGTTGGGCATAGGTGCAACA[GA]GTATACCCCACGTAACATATGAGCATGGTAAAAAATTTCT			
11702	IS	[GA]		TTGCCTTATTACAATTTCTC	ctg15945	3	
11707	I		S	CAGGACCAGCCAGGCTTTCCTTAGTTTCACAA			
11707	P	A	S	CGCGCCGAGGTGCCTGAGGTGGGY			
11707	P	G	S	ATGACGTGGCAGACCGCCTGAGGTGGGY			
11707	T	A	S	CCAGCCCACCTCAGGCATGTGAAACTAAGGAAAGCCTGGCTGGTCCTGCA			
11707	T	G	S	CCAGCCCACCTCAGGCGTGTGAAACTAAGGAAAGCCTGGCTGGTCCTGCA			
				GGCTGGATGCTGACGGGGAGAGCAGGAGCACTTGGGTGTCCAGCCCAGCCCACCTCAGGC[AG]TGTGAAACTAAGGAAAGCCTGGCTGGTCCTGCAGCC			
11707	IS	[AG]		TCAGCTTCCCCTAGAGAAGACCCC	ctg15296	11	
11726	I		A	GGCCTCTCCAGGCCCTTCCCCT			
11726	P	G	A	ATGACGTGGCAGACGCCCTGAACCCTCGY			
11726	P	A	A	CGCGCCGAGGACCCTGAACCCTCGY			
11726	T	G	A	ACTTCGAGGGTTCAGGGCGGGGAAGGGCCTGGAGAGGCCAC			
11726	T	A	A	ACTTCGAGGGTTCAGGGTGGGGAAGGGCCTGGAGAGGCCAC			
				GCTGGACCCTGGACCACCGCCACTGGCTTCTCTCAGGGTGGCCTCTCCAGGCCCTTCCCC[GA]CCCTGAACCCTCGAAGTCCAGGAGTCAGAGGGGCCTC			
11726	IS	[GA]		ACCACATATGTCCCCTCCTCAGA	ctg16920	19	
11732	I		A	GGCTCAGAGATTGTGAGGCTGCCTGCTTA			
11732	P	C	A	ATGACGTGGCAGACCATGTGGGAGAAGCACY			
11732	P	T	A	CGCGCCGAGGTATGTGGGAGAAGCACAY			
11732	T	C	A	AGTCTGTGCTTCTCCCACATGAAGCAGGCAGCCTCACAATCTCTGAGCCCT			
11732	T	T	A	AGTCTGTGCTTCTCCCACATAAAGCAGGCAGCCTCACAATCTCTGAGCCCT			
				TGTGATACAAGACAGATGCATGGCAATCTGAGGGCTCAGAGATTGTGAGGCTGCCTGCTT[CT]ATGTGGGAGAAGCACAGACTTTCTCAAGTGTGAATTGA			
11732	IS	[CT]		GCAGCAGCATTGGGTCATGGAA	ctg17003	14	
11738	I		S	AGTGTGATCAGTCACCTGACCATCACCCATGATCA			
11738	P	A	S	CGCGCCGAGGTATCCACCTAAGGCCTTTY			
11738	P	G	S	ATGACGTGGCAGACCATCCACCTAAGGCCTY			
11738	T	A	S	CTTGAAAGGCCTTAGGTGGATAGATCATGGGTGATGGTCAGGTGACTGATCACACTGG			
11738	T	G	S	CTTGAAAGGCCTTAGGTGGATGGATCATGGGTGATGGTCAGGTGACTGATCACACTGG			
				AAATTAGCTGTCAAAAGCGTGAGGCTGCTTAAGCTCCATCTTGAAAGGCCTTAGGTGGAT[AG]GATCATGGGTGATGGTCAGGTGACTGATCACACTGGAG			
11738	IS	[AG]		ACATTTGAGAGGGAAGGCCCTC	ctg17003	14	
11743	I		S	GTTCTACACTGAAACCCTCTTCCCTATTTCTGCCTGTTTCA			
11743	P	A	S	CGCGCCGAGGTAGTTCCTCAAATTTACTCACGY			
11743	P	G	S	ATGACGTGGCAGACCAGTTCCTCAAATTTACTCACY			
11743	T	A	S	AGGACGTGAGTAAATTTGAGGAACTAGAAACAGGCAGAAATAGGGAAGAGGGTTTCAGTGTAGAACAT			
11743	T	G	S	AGGACGTGAGTAAATTTGAGGAACTGGAAACAGGCAGAAATAGGGAAGAGGGTTTCAGTGTAGAACAT			

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FIGURE 129E

				ATATTTTGTTACAGAAGCACAAATGGATAAGACAAAGGACGTGAGTAAATTTGAGGAACT[AG]GAAACAGGCAGAAATAGGGAAGAGGGTTTCAGTGTAGAA			
11743	IS	[AG]		CATGCAGTGGTTTGGAGGCAT	ctg16920	19	
11788	I		A	GGGGCAGCTTGTTCTGCAGGTCTAGCACT			
11788	P	A	A	CGCGCCGAGGAGCCTTGCCCATCTTY			
11788	P	G	A	ATGACGTGGCAGACGGGCCTTGCCCATCTY			
11788	T	A	A	CACCAAGATGGGCAAGGCTGTGCTAGACCTGCAGAACAAGCTGCCCCTG			
11788	T	G	A	CACCAAGATGGGCAAGGCCGTGCTAGACCTGCAGAACAAGCTGCCCCTG			
				ACCTGTGGCGCTGGCGTAGACCACGCGGGCCAGGGGCAGCTTGTTCTGCAGGTCTAGCAC[AG]GCCTTGCCCATCTTGGTGGAGCCGGCATTCTTGGCTT			
11788	IS	[AG]		TGTGACACTCGTCGAACACGATC	ctg16687	15	
11790	I		S	GGATTAGGGATTTAATCTTTCCTCTGCCCTTCAGGTTCCT			
11790	P	C	S	ATGACGTGGCAGACGTGAGCCACCTCACAY			
11790	P	T	S	CGCGCCGAGGATGAGCCACCTCACAGY			
11790	T	C	S	TAACCTGTGAGGTGGCTCACGGAACCTGAAGGGCAGAGGAAAGATTAAATCCCTAATCCAA			
11790	T	T	S	TAACCTGTGAGGTGGCTCATGGAACCTGAAGGGCAGAGGAAAGATTAAATCCCTAATCCAA			
				CAGCCAGAAGAGCAGTGTTGTGACGCTGTCTTTCTGTTTCATAACCTGTGAGGTGGCTCA[CT]GGAACCTGAAGGGCAGAGGAAAGATTAAATCCCTAATCC			
11790	IS	[CT]		AATAATAAGGTTTTCTTCCAT			
11805	I		S	AGGCAGGGAAAGCTATGGGTCAGAATCAGGAAT			
11805	P	T	S	CGCGCCGAGGAACCTCATTGTCTTGATGAGY			
11805	P	C	S	ATGACGTGGCAGACGACCTCATTGTCTTGATGAGY			
11805	T	T	S	CCCCCTCATCAAGACAATGAGGTTTTCCTGATTCTGACCCATAGCTTTCCCTGCCTCA			
11805	T	C	S	CCCCCTCATCAAGACAATGAGGTCTTCCTGATTCTGACCCATAGCTTTCCCTGCCTCA			
				AGGCCATCAGATCAAGCTAGACTGGCTTGTCCTCAGGCCCCCTCATCAAGACAATGAGGT[TC]TTCCTGATTCTGACCCATAGCTTTCCCTGCCTCATATGC			
11805	IS	[TC]		CCACAGCCAGGAAAACAGAGG	MULTIPLE	MULTIPLE	
11815	I		A	CTGCTGAAAATGAAGCAACTGGCCCTGGCA			
11815	P	C	A	ATGACGTGGCAGACCTTATTCCTCCACCTCTTGY			
11815	P	T	A	CGCGCCGAGGAGGTCCATTGTTTCCAGTY			
11815	T	C	A	GGAGCAAGAGGTGGAGGAATAAGGCCAGGGCCAGTTGCTTCATTTTCAGCAGGG			
11815	T	T	A	GGAGCAAGAGGTGGAGGAATAAAGCCAGGGCCAGTTGCTTCATTTTCAGCAGGG			
				GGTAATTTAAATGTGCCTGATTCATCTCTCCCTGCTGAAAATGAAGCAACTGGCCCTGGC[CT]TTATTCCTCCACCTCTTGCTCCAATCAGCGGTCCATTGTT			
11815	IS	[CT]		TCCAGTGGATACAAGGGGCC	ctg14007	17	MGEA6
11817	I		A	TGGCCTTATTCCTCCACCTCTTGCTCCAATCAGT			
11817	P	C	A	ATGACGTGGCAGACCGGTCCATTGTTTCCAGY			
11817	P	A	A	CGCGCCGAGGAGGTCCATTGTTTCCAGTY			
11817	T	C	A	ATCCACTGGAAACAATGGACCGCTGATTGGAGCAAGAGGTGGAGGAATAAGGCCAGG			
11817	T	A	A	ATCCACTGGAAACAATGGACCTCTGATTGGAGCAAGAGGTGGAGGAATAAGGCCAGG			
				CCCTGCTGAAAATGAAGCAACTGGCCCTGGCCTTATTCCTCCACCTCTTGCTCCAATCAG[CA]GGTCCATTGTTTCCAGTGGATACAAGGGGCCCGTTCATG			
11817	IS	[CA]		AGAAGAGGACCTCCTTTCCCC	ctg22fin4	22	
11819	I		A	AGTCCAGCTAGCATTGATTCCAACCCTCCTTCATCAATTTTAATTTAA			
11819	P	T	A	CGCGCCGAGGTTCAGTGCAAAGAAATGAAGY			
11819	P	C	A	ATGACGTGGCAGACCTCAGTGCAAAGAAATGAAGY			
11819	T	T	A	ATTACTTCATTTCTTTGCACTGAATAAATTAAAATTGATGAAGGAGGGTTGGAATCAATGCTAGCTGGACTTC			
11819	T	C	A	ATTACTTCATTTCTTTGCACTGAGTAAATTAAAATTGATGAAGGAGGGTTGGAATCAATGCTAGCTGGACTTC			
				AAATACAGCCAGAAGTCCAGCTAGCATTGATTCCAACCCTCCTTCATCAATTTTAATTTA[TC]TCAGTGCAAAGAAATGAAGTAATTTGCTGGCCACACTGACT			
11819	IS	[TC]		ATGCATCTAACTGGATTGA			
11843	I		A	CATCCCTGTTCCAGCCCCGTGTTGTT			
11843	P	C	A	CGCGCCGAGGCCCGGCCATGTGAY			
11843	P	G	A	ATGACGTGGCAGACGCCGGCCATGTGAY			
11843	T	C	A	TGAGTCACATGGCCGGGACAACACGGGGCTGGAACAGGGATGCT			
11843	T	G	A	TGAGTCACATGGCCGGCACAACACGGGGCTGGAACAGGGATGCT			
				TATCGGGCAAGGGGACAAGGTCTGGCTTCCCGGAGCATCCCTGTTCCAGCCCCGTGTTGT[CG]CCGGCCATGTGACTCACAGCTCCTCTCATTTTCATGAG			
11843	IS	[CG]		TGTCTGGGTTTGACGAGAAATA	ctg17207	19	
11847	I		A	CCAACAACTAGCTTTGCAGGCTTCTCACACACCT			
11847	P	G	A	ATGACGTGGCAGACGTGCTACCCTCCCAGY			
11847	P	A	A	CGCGCCGAGGATGCTACCCTCCCAGY			
11847	T	G	A	CACACTGGGAGGGTAGCACGGTGTGTGAGAAGCCTGCAAAGCTAGTTGTTGGGA			
11847	T	A	A	CACACTGGGAGGGTAGCATGGTGTGTGAGAAGCCTGCAAAGCTAGTTGTTGGGA			
				CAAAGCTAGGACAAAAACCAGGGTCTCCCAACAACTAGCTTTGCAGGCTTCTCACACACC[GA]TGCTACCCTCCGAGTGTGGAAAGGAACCACTCAGCCTC			
11847	IS	[GA]		CCCACACTTTCTGCCATAGGAG	ctg15842	19	
11862	I		A	GCTCACAGGCCGGTGGGTGCAAT			
11862	P	A	A	CGCGCCGAGGACCCTGAAGGACACACY			
11862	P	G	A	ATGACGTGGCAGACGCCCTGAAGGACACAY			
11862	T	A	A	GGCTGTGTGTCCTTCAGGGTTTGCACCCACCGGCCTGTGAGCGC			
11862	T	G	A	GGCTGTGTGTCCTTCAGGGCTTGCACCCACCGGCCTGTGAGCGC			
				GGAACTCAAGGCACAGGAGCCTGGCTTTTGCGCAGGGCGCTCACAGGCCGGTGGGTGCAA[AG]CCCTGAAGGACACACAGCCTGTCCCTTTAGCGCCCAT			
11862	IS	[AG]		CGCTTCTGGTGTGAGCTCCCGCT	ctg15842	19	
11902	I		S	GTGTCTGCTCCCTCCCTCTGGTCCCA			
11902	P	A	S	CGCGCCGAGGTGGCACATCTCTGGACY			
11902	P	G	S	ATGACGTGGCAGACCGGCACATCTCTGGAY			
11902	T	A	S	GGGGGTCCAGAGATGTGCCAGGGACCAGAGGGAGGGAGCAGACACCC			
11902	T	G	S	GGGGGTCCAGAGATGTGCCGGGGACCAGAGGGAGGGAGCAGACACCC			
				GAATACGCCGTTGCCCGTCATCTCTCCGACAGCAGGGCAGGGGGTCCAGAGATGTGCC[AG]GGGACCAGAGGGAGGGAGCAGACACCCACCCGGCCT			
11902	IS	[AG]		GGGCAGGTCCTCCTCATTGCTTGC	ctg19247	7	
11908	I		A	TCTCAAAACAACAACAACAACAACAACAACAATAAGTGAACATCAGCAT			
11908	P	A	A	CGCGCCGAGGAGTACCCCAGCCCTY			
11908	P	G	A	ATGACGTGGCAGACGGTACCCCAGCCCY			
11908	T	A	A	GGACAGGGCTGGGGTACTTGCTGATGTTCACTTATTGTTGTTGTTGTTGTTGTTGTTTTGAGACG			
11908	T	G	A	GGACAGGGCTGGGGTACCTGCTGATGTTCACTTATTGTTGTTGTTGTTGTTGTTTTGAGACG			
				AGCGAGACTCCGTCTCAAAACAACAACAACAACAACAACAACAATAAGTGAACATCAGCA[AG]GTACCCCAGCCCTGTCCTCTGAACACAGCACACTTTCCC			
11908	IS	[AG]		AGGAATGGAAGACTTGCTCCT	MULTIPLE	18	
11915	I		S	GGAAGGTTTCTTCCCAGAGTCAAGATCCACTTCTGGT			
11915	P	G	S	ATGACGTGGCAGACCAATACCCTGGTCTCTGTY			
11915	P	T	S	CGCGCCGAGGAAATACCCTGGTCTCTGTY			
11915	T	G	S	GAGAACAGAGACCAGGGTATTGCCAGAAGTGGATCTTGACTCTGGGAAGAAACCTTCCGA			
11915	T	T	S	GAGAACAGAGACCAGGGTATTTCCAGAAGTGGATCTTGACTCTGGGAAGAAACCTTCCGA			
				CCGCATAAAAACCATTAAGACATCTTCTGGGGAAATCAAGAGAACAGAGACCAGGGTATT[GT]CCAGAAGTGGATCTTGACTCTGGGAAGAAACCTTCCGAG			
11915	IS	[GT]		CAGATGGTGTCTGTGATGGCC	ctg15907	6	
11917	I		A	CAGTTTTTGTCTCTCTCGTCAGGATTGTTTTGGTAGGCAT			
11917	P	C	A	ATGACGTGGCAGACCACTTTCAGAACTCTTCCATY			
11917	P	A	A	CGCGCCGAGGAACTTTCAGAACTCTTCCATTAY			
11917	T	C	A	AATCTAATGGAAGAGTTCTGAAAGTGTGCCTACCAAAACAATCCTGACGAGAGAGACAAAAACTGCA			
11917	T	A	A	AATCTAATGGAAGAGTTCTGAAAGTTTGCCTACCAAAACAATCCTGACGAGAGAGACAAAAACTGCA			
				TAGCATCAGCTCTAATATATGCAGTTTTTGTCTCTCTCGTCAGGATTGTTTTGGTAGGCA[CA]ACTTTCAGAACTCTTCCATTAGATTTCTTCAAAATTGTTTA			
11917	IS	[CA]		GGGTTCCTCTCAAGTTTTG	ctg17129	17	
12009	I		A	GGCCCCTTCTCTGGCCTGTCTACCCT			
12009	P	G	A	ATGACGTGGCAGACGCCCTGGCAAACGY			
12009	P	A	A	CGCGCCGAGGACCCTGGCAAACGGY			
12009	T	G	A	CCAGCCGTTTGCCAGGGCGGGTAGACAGGCCAGAGAAGGGGCCGG			
12009	T	A	A	CCAGCCGTTTGCCAGGGTGGGTAGACAGGCCAGAGAAGGGGCCGG			

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FIGURE 129E

				AACTCTCCAGCACCCCATGTGGGCTCTGCACTGCCGGCCCCTTCTCTGGCCTGTCTACCC[GA]CCCTGGCAAACGGCTGGCAAGTCCCCAGCCTTGTTCCT			
12009	IS	[GA]		CTGCTTAGTGTGCCCTTTTCTC	ctg16335	2	
12012	I		A	GCTGGTGTCACTGATGTCCCCGTGCA			
12012	P	C	A	ATGACGTGGCAGACCGGGCATGAGCCCY			
12012	P	T	A	CGCGCCGAGGTGGGCATGAGCCCY			
12012	T	C	A	AGAAGGGCTCATGCCCGGCACGGGGACATCAGTGACACCAGCGC			
12012	T	T	A	AGAAGGGCTCATGCCCAGCACGGGGACATCAGTGACACCAGCGC			
				GCAAGGGTCAGAATCAGGACCGGAGCCCCAGATGCGCTGGTGTCACTGATGTCCCCGTGC[CT]GGGCATGAGCCCTTCTGTGCAAGGAGCTCCAATGTCT			
12012	IS	[CT]		CCCGGCCAGTGATGATGTGAAAA	ctg15907	6	
12014	I		S	CATGTGGCCCCCAGCCTATGATGCCA			
12014	P	G	S	ATGACGTGGCAGACCGTTCCCTTGCCTGY			
12014	P	A	S	CGCGCCGAGGTGTTCCCTTGCCTGCY			
12014	T	G	S	CAGAGCAGGCAAGGGAACGGGCATCATAGGCTGGGGGCCACATGTT			
12014	T	A	S	CAGAGCAGGCAAGGGAACAGGCATCATAGGCTGGGGGCCACATGTT			
				CTCAACATTTCCGCCCACACCTCCTCAGCCCCTGCCAGGAGACAGAGCAGGCAAGGGAAC[GA]GGCATCATAGGCTGGGGGCCACATGTTGAAATCTGCT			
12014	IS	[GA]		CCTTGGGGAATTTGTCATTTAAG	ctg16537	20	
12016	I		S	CAATCCACGCCGTCCCCTTGTCCACT			
12016	P	C	S	ATGACGTGGCAGACGTGACTCTGGATTTGGTACY			
12016	P	T	S	CGCGCCGAGGATGACTCTGGATTTGGTACY			
12016	T	C	S	GATGGTACCAAATCCAGAGTCACGTGGACAAGGGGACGGCGTGGATTGAG			
12016	T	T	S	GATGGTACCAAATCCAGAGTCATGTGGACAAGGGGACGGCGTGGATTGAG			
				GCTGCTGATGAGAGAGGACAAACAAATAAGATGGACAAGATGGTACCAAATCCAGAGTCA[CT]GTGGACAAGGGGACGGCGTGGATTGAGTGGCTGGGGC			
12016	IS	[CT]		AGTTGTAACTTCATGCTGCTGGG	ctg13915	12	
12018	I		S	GTGTTGCTTGCCACAGAGAATGCAGTTAACTCCAATAATCTTTAGT			
12018	P	T	S	CGCGCCGAGGACTCATGGATGACAAAGTGY			
12018	P	C	S	ATGACGTGGCAGACGCTCATGGATGACAAAGTY			
12018	T	T	S	TGGGCACTTTGTCATCCATGAGTCTAAAGATTATTGGAGTTAACTGCATTCTCTGTGGCAAGCAACACGC			
12018	T	C	S	TGGGCACTTTGTCATCCATGAGCCTAAAGATTATTGGAGTTAACTGCATTCTCTGTGGCAAGCAACACGC			
				TCCTGCCATCTATTTCGCTAGGAGATCAGAAGAATTAATGGGCACTTTGTCATCCATGAG[TC]CTAAAGATTATTGGAGTTAACTGCATTCTCTGTGGCAAGC			
12018	IS	[TC]		AACACGCTGGCTCCTTGCCG	ctg15907	6	
12020	I		S	ACAGAGGTGGAGACAATACATCTATACTGTCCTGTTCCTACCA			
12020	P	G	S	ATGACGTGGCAGACCTAACTCCTGCCCGGY			
12020	P	A	S	CGCGCCGAGGTTAACTCCTGCCCGGY			
12020	T	G	S	GTTGCCGGGCAGGAGTTAGGGTAGGAACAGGACAGTATAGATGTATTGTCTCCACCTCTGTCT			
12020	T	A	S	GTTGCCGGGCAGGAGTTAAGGTAGGAACAGGACAGTATAGATGTATTGTCTCCACCTCTGTCT			
				GGTGGGGGTCCTCTCCCTCAGGAACACCCCTCCACTGGCTGGGTTGCCGGGCAGGAGTTA[GA]GGTAGGAACAGGACAGTATAGATGTATTGTCTCCACC			
12020	IS	[GA]		TCTGTCTGAGGCACACAGTGTGA	ctg_na	NA	
12025	I		A	CGCACCGTCTCTTCATCCCCCAGAAACTGA			
12025	P	C	A	ATGACGTGGCAGACCATGGGCTTGATAGGCY			
12025	P	T	A	CGCGCCGAGGTATGGGCTTGATAGGCTY			
12025	T	C	A	TTGAAGCCTATCAAGCCCATGCAGTTTCTGGGGGATGAAGAGACGGTGCGCA			
12025	T	T	A	TTGAAGCCTATCAAGCCCATACAGTTTCTGGGGGATGAAGAGACGGTGCGCA			
				GCCCTGGGCAGCCACAGCTTCCATGGCTTTGCGCACCGTCTCTTCATCCCCCAGAAACTG[CT]ATGGGCTTGATAGGCTTCAAGTTCTTGTCCAATTCATAG			
12025	IS	[CT]		ACAATGGGAATACCAGTCGGC	ctg17450	X	PGAM1
12027	I		A	GCTTTGACCATAATGATACCATGAGAACTAAATGCTTTTCACAAGTCCTT			
12027	P	C	A	CGCGCCGAGGCTTGTTTAACCCGTGCCY			
12027	P	G	A	ATGACGTGGCAGACGTTGTTTAACCCGTGCCY			
12027	T	C	A	CTGTGGCACGGGTTAAACAAGAGGACTTGTGAAAAGCATTTAGTTCTCATGGTATCATTATGGTCAAAGCCA			
12027	T	G	A	CTGTGGCACGGGTTAAACAACAGGACTTGTGAAAAGCATTTAGTTCTCATGGTATCATTATGGTCAAAGCCA			
				TTGTCCCCCTGGCTTTGACCATAATGATACCATGAGAACTAAATGCTTTTCACAAGTCCT[CG]TTGTTTAACCCGTGCCACAGCCTTAGGAGCTGGGTTCACT			
12027	IS	[CG]		GATCATTTCCATCTTATTCT	ctg17129	17	
12031	I		A	CCTGCTTCCCCTTCACCTTCCACCATGATTGTAC			
12031	P	A	A	CGCGCCGAGGAGTTTCCTGAGGCCACY			
12031	P	T	A	ATGACGTGGCAGACTGTTTCCTGAGGCCAY			
12031	T	A	A	TGGGGTGGCCTCAGGAAACTTACAATCATGGTGGAAGGTGAAGGGGAAGCAGGCA			
12031	T	T	A	TGGGGTGGCCTCAGGAAACATACAATCATGGTGGAAGGTGAAGGGGAAGCAGGCA			
				CCTCCTCCTCCGGGCATGTTAGACATGCCTGCTTCCCCTTCACCTTCCACCATGATTGTA[AT]GTTTCCTGAGGCCACCCCAGCCATGCTTCCTGCACAGCC			
12031	IS	[AT]		TGATGAACTTTGAGTTAATTA	ctg14210	12	
12033	I		A	GGAGCAGCTTTGCTTGGAGTCTGGCCATAT			
12033	P	A	A	CGCGCCGAGGATTAACTACCTCCCACATCTY			
12033	P	G	A	ATGACGTGGCAGACGTTAACTACCTCCCACATCY			
12033	T	A	A	GACTAGATGTGGGAGGTAGTTAATTATGGCCAGACTCCAAGCAAAGCTGCTCCCA			
12033	T	G	A	GACTAGATGTGGGAGGTAGTTAACTATGGCCAGACTCCAAGCAAAGCTGCTCCCA			
				TCAGCCATTCTTCCTATGGACCAGATGGGTGGGAGCAGCTTTGCTTGGAGTCTGGCCATA[AG]TTAACTACCTCCCACATCTAGTCTTTGCACGCCAGTCTT			
12033	IS	[AG]		TTCATGCTATGGCTCACAGAA	ctg15907	6	
12040	I		A	TCCTTCCCAACAGGGCCTGGGACACA			
12040	P	C	A	ATGACGTGGCAGACCGGCTTGATCATCATGAGY			
12040	P	T	A	CGCGCCGAGGTGGCTTGATCATCATGAGY			
12040	T	C	A	GGGCCTCATGATGATCAAGCCGGTGTCCCAGGCCCTGTTGGGAAGGATC			
12040	T	T	A	GGGCCTCATGATGATCAAGCCAGTGTCCCAGGCCCTGTTGGGAAGGATC			
				ACTTACTTCTGTAGGGTATGTAACTGAGCATATGATCCTTCCCAACAGGGCCTGGGACAC[CT]GGCTTGATCATCATGAGGCCCAGGACGGAGCCACACAT			
12040	IS	[CT]		AGGTCATGATAGTGGAAGCAGC	ctg15907	6	
12042	I		S	TGTGAAACACACAGCTTCCTTGGCCCCAATT			
12042	P	G	S	CGCGCCGAGGCTAGGTGATTCAAATTCATGGAY			
12042	P	C	S	ATGACGTGGCAGACGTAGGTGATTCAAATTCATGGY			
12042	T	G	S	TAAATCCATGAATTTGAATCACCTAGATTGGGGCCAAGGAAGCTGTGTGTTTCACAAA			
12042	T	C	S	TAAATCCATGAATTTGAATCACCTACATTGGGGCCAAGGAAGCTGTGTGTTTCACAAA			
				TTACTTTCCAGGTACAGATTTTCAGGTTCCTCACCTAAATCCATGAATTTGAATCACCTA[GC]ATTGGGGCCAAGGAAGCTGTGTGTTTCACAAACAGCTGCA			
12042	IS	[GC]		GTGGTTCAACAGGAAAGCTT	ctg14391	11	
12043	I		A	CCTGCTGCAGCACCTTCAGATTAGGCTCATTTC			
12043	P	T	A	CGCGCCGAGGTCACACCTGCATATTTTCCY			
12043	P	G	A	ATGACGTGGCAGACGCACACCTGCATATTTTCY			
12043	T	T	A	TGGGGGAAAATATGCAGGTGTGAAAATGAGCCTAATCTGAAGGTGCTGCAGCAGGTC			
12043	T	G	A	TGGGGGAAAATATGCAGGTGTGCAAATGAGCCTAATCTGAAGGTGCTGCAGCAGGTC			
				TTTGCTGGAGGGGATGCATTTTTCAAGACCTGCTGCAGCACCTTCAGATTAGGCTCATTT[TG]CACACCTGCATATTTTCCCCCAATTTTCCAGCGTAACCCT			
12043	IS	[TG]		GTGTGAATCATTGCAGTTTT	ctg13516	6	
12048	I		S	TGCAGAGTCTCTGCTCTCCCTTGTCAAATACGCT			
12048	P	C	S	ATGACGTGGCAGACGTTTGTGACATACATTGGAAGY			
12048	P	T	S	CGCGCCGAGGATTTGTGACATACATTGGAAGY			
12048	T	C	S	ATGCCTTCCAATGTATGTCACAAACGCGTATTTGACAAGGGAGAGCAGAGACTCTGCAGG			
12048	T	T	S	ATGCCTTCCAATGTATGTCACAAATGCGTATTTGACAAGGGAGAGCAGAGACTCTGCAGG			
				AGGTCCACAGTCACACAGATGACAGAAATGTGCCCGATGCCTTCCAATGTATGTCACAAA[CT]GCGTATTTGACAAGGGAGAGCAGAGACTCTGCAGGTGG			
12048	IS	[CT]		TGAGTTTTGCCTGCAGCGCCAC	ctg15907	6	
12058	I		S	AGTTACCAGGGAGAAGGAAGTGACCTTTGGTGGT			
12058	P	G	S	CGCGCCGAGGCAGATAACTGGTTTTATTTCACTGY			
12058	P	C	S	ATGACGTGGCAGACGAGATAACTGGTTTTATTTCACTGY			
12058	T	G	S	AAAACAGTGAAATAAAACCAGTTATCTGCCACCAAAGGTCACTTCCTTCTCCCTGGTAACTGG			
12058	T	C	S	AAAACAGTGAAATAAAACCAGTTATCTCCCACCAAAGGTCACTTCCTTCTCCCTGGTAACTGG			

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FIGURE 129E

				TGAGGATCTGCATCTTTAACAGGCTGAAACCAGAAAACAGTGAAATAAAACCAGTTATCT[GC]CCACCAAAGGTCACTTCCTTCTCCCTGGTAACTGGACTCT			
12058	IS	[GC]		CCTCTGGCTGCAACACCTCT	ctg15478	1	
12059	I		S	TGACTTAGTTTGCTGGGTTATCTGCTGTGCCTGATT			
12059	P	C	S	ATGACGTGGCAGACGAGTACCGAATTTATAAAGCACY			
12059	P	T	S	CGCGCCGAGGAAGTACCGAATTTATAAAGCACY			
12059	T	C	S	ACCTGTGCTTTATAAATTCGGTACTCATCAGGCACAGCAGATAACCCAGCAAACTAAGTCACA			
12059	T	T	S	ACCTGTGCTTTATAAATTCGGTACTTATCAGGCACAGCAGATAACCCAGCAAACTAAGTCACA			
				TTCCAATGAGCCTGTGGGAAAATATTAACAAGCATACCTGTGCTTTATAAATTCGGTACT[CT]ATCAGGCACAGCAGATAACCCAGCAAACTAAGTCACATCT			
12059	IS	[CT]		ATTCTGGAATTTCAGGGTTT			
12064	I		S	GTGGGCGCTCGGCACCATGCT			
12064	P	T	S	CGCGCCGAGGAGTCTGAGGATGGCCY			
12064	P	C	S	ATGACGTGGCAGACGGTCTGAGGATGGCCY			
12064	T	T	S	CTTTGGCCATCCTCAGACTGCATGGTGCCGAGCGCCCACAA			
12064	T	C	S	CTTTGGCCATCCTCAGACCGCATGGTGCCGAGCGCCCACAA			
				TGTAAGTCACAAGTGGGCCAAGTCCCCACTAATCAGCCTCTCCTTTGGCCATCCTCAGAC[TC]GCATGGTGCCGAGCGCCCACAACAGGCTCATGGAACAG			
12064	IS	[TC]		CTGGCCCTCCTGTGCACCACGC	ctg15907	6	
12069	I		S	AGCCCATCATTTGTTTTTGTGGCAAAGGGATATGTTGTCATAATAAATTCT			
12069	P	C	S	ATGACGTGGCAGACGATCAGTGGTTCCGAGY			
12069	P	G	S	CGCGCCGAGGCATCAGTGGTTCCGAGY			
12069	T	C	S	CTGGCTCGGAACCACTGATCGAATTTATTATGACAACATATCCCTTTGCCACAAAAACAAATGATGGGCTAA			
12069	T	G	S	CTGGCTCGGAACCACTGATGGAATTTATTATGACAACATATCCCTTTGCCACAAAAACAAATGATGGGCTAA			
				ACAATATCCCCTAGTGGGGATCGGTGGGGGCAACATTGTCCCTGGCTCGGAACCACTGAT[CG]GAATTTATTATGACAACATATCCCTTTGCCACAAAAACA			
12069	IS	[CG]		AATGATGGGCTAACCGTGTGT	ctg15330	9	
12071	I		A	TGTGCCTCATCAGCAAAATGGGGATGATAATGAATGGTAA			
12071	P	C	A	ATGACGTGGCAGACCCTGCCTCATAGAAATGTGY			
12071	P	T	A	CGCGCCGAGGTCTGCCTCATAGAAATGTGY			
12071	T	C	A	TTCTCACATTTCTATGAGGCAGGTACCATTCATTATCATCCCCATTTTGCTGATGAGGCACAGA			
12071	T	T	A	TTCTCACATTTCTATGAGGCAGATACCATTCATTATCATCCCCATTTTGCTGATGAGGCACAGA			
				GGGCTGGTTACTCCACCTCTCTGTGCCTCATCAGCAAAATGGGGATGATAATGAATGGTA[CT]CTGCCTCATAGAAATGTGAGAATAGAGTGAATGAACTCA			
12071	IS	[CT]		TATAAAGCTCTAGGCACCATG	ctg15140	12	
12086	I		A	GCCTGCCCTCAAATCATTGGTTCAAATCGCTCTA			
12086	P	T	A	CGCGCCGAGGTGAGAAGTTTGGGAGCTY			
12086	P	C	A	ATGACGTGGCAGACCGAGAAGTTTGGGAGCY			
12086	T	T	A	TGGGAGCTCCCAAACTTCTCAAGAGCGATTTGAACCAATGATTTGAGGGCAGGCTG			
12086	T	C	A	TGGGAGCTCCCAAACTTCTCGAGAGCGATTTGAACCAATGATTTGAGGGCAGGCTG			
				AGTCCTAAACTGTCCCTATCTTCACCAGCCTGCCCTCAAATCATTGGTTCAAATCGCTCT[TC]GAGAAGTTTGGGAGCTCCCAGGGCGGGGGCTTTCTAACA			
12086	IS	[TC]		GCTCTGCCTAGCTCGGGCCTG	ctg15478	1	
12090	I		S	TGGGCCAGTGTCCCCTACTAAGCAGCC			
12090	P	A	S	CGCGCCGAGGTTTCTGGGACATGCTGTY			
12090	P	T	S	ATGACGTGGCAGACATTCTGGGACATGCTGTY			
12090	T	A	S	GAGAACAGCATGTCCCAGAAAGCTGCTTAGTAGGGGACACTGGCCCACT			
12090	T	T	S	GAGAACAGCATGTCCCAGAATGCTGCTTAGTAGGGGACACTGGCCCACT			
				TCTGAGTGGACATCAAGGAAGCTGCAGGGGCAGCCCCGCAGAGAACAGCATGTCCCAGAA[AT]GCTGCTTAGTAGGGGACACTGGCCCACTCTCTCTGCC			
12090	IS	[AT]		CCTCCCAGACTCCAGCCTCACTA	ctg22fin4	22	
12092	I		A	CTGTGGGCACTGGGGGAAACTTAGGCT			
12092	P	G	A	ATGACGTGGCAGACGCCTCCTCCAAGGCY			
12092	P	A	A	CGCGCCGAGGACCTCCTCCAAGGCY			
12092	T	G	A	GAGAGCCTTGGAGGAGGCGCCTAAGTTTCCCCCAGTGCCCACAGCA			
12092	T	A	A	GAGAGCCTTGGAGGAGGTGCCTAAGTTTCCCCCAGTGCCCACAGCA			
				TGGGTGGTGCGTGTATTTTCAGTGCCGGAGGGTGCTGTGGGCACTGGGGGAAACTTAGGC[GA]CCTCCTCCAAGGCTCTCTTGGTGCCTCCTCATCTGTT			
12092	IS	[GA]		CCTTCAGCTTCTGGATCTTGAGC	ctg15665	20	
12093	I		A	GCTCCCAAAATGTGTTCCATGGTACACTAGAGTAGCAA			
12093	P	C	A	ATGACGTGGCAGACCATACAAAGAGATGGAATCCAY			
12093	P	T	A	CGCGCCGAGGTATACAAAGAGATGGAATCCAAAY			
12093	T	C	A	TATTTTTGGATTCCATCTCTTTGTATGTGCTACTCTAGTGTACCATGGAACACATTTTGGGAGCTG			
12093	T	T	A	TATTTTTGGATTCCATCTCTTTGTATATGCTACTCTAGTGTACCATGGAACACATTTTGGGAGCTG			
				CTGAAGGGTAAGCAGAGCCGCCAGCTCCCAAAATGTGTTCCATGGTACACTAGAGTAGCA[CT]ATACAAAGAGATGGAATCCAAAAATAATACGAAGCTTAG			
12093	IS	[CT]		GACAAAAGGGGCACTGTTTTC	ctg13980	1	
12095	I		S	GCCCTCATTCTCAGCCCCTCACCATCCT			
12095	P	C	S	ATGACGTGGCAGACGTGCGCCACCTGGY			
12095	P	T	S	CGCGCCGAGGATGCGCCACCTGGY			
12095	T	C	S	GGCCCCAGGTGGCGCACGGATGGTGAGGGGCTGAGAATGAGGGCAC			
12095	T	T	S	GGCCCCAGGTGGCGCATGGATGGTGAGGGGCTGAGAATGAGGGCAC			
				GGAGGATGCCAGGCCTGGAGACGTCCAGCCGCAGGCGGCTGCTGGGCCCCAGGTGGCGCA[CT]GGATGGTGAGGGGCTGAGAATGAGGGCACCGACTG			
12095	IS	[CT]		TGAAGCTGGGGCATCGATGACCCAA	ctg16537	20	SEMA7A
12096	I		S	CATGGGCTCTTGGGCTGGGAGCAA			
12096	P	A	S	CGCGCCGAGGTCGCTGCATTTAGTCAAGY			
12096	P	G	S	ATGACGTGGCAGACCCGCTGCATTTAGTCAAY			
12096	T	A	S	CAAACTTGACTAAATGCAGCGATGCTCCCAGCCCAAGAGCCCATGGG			
12096	T	G	S	CAAACTTGACTAAATGCAGCGGTGCTCCCAGCCCAAGAGCCCATGGG			
				CCAAGACTTTATCTTCTGGAAAATATTTTTCAGACTCCTCAAACTTGACTAAATGCAGCG[AG]TGCTCCCAGCCCAAGAGCCCATGGGTCGGGGAGTGGGTT			
12096	IS	[AG]		TGGATAGGAGAGCTGGGACTC	ctg22fin3	22	SEMA7A
12097	I		S	GCACCCTGGCAGGGACCCTGGAAT			
12097	P	C	S	ATGACGTGGCAGACGGCCATCAGATAACCCTY			
12097	P	T	S	CGCGCCGAGGAGCCATCAGATAACCCTY			
12097	T	C	S	GGTGAGGGTTATCTGATGGCCTTCCAGGGTCCCTGCCAGGGTGCGA			
12097	T	T	S	GGTGAGGGTTATCTGATGGCTTTCCAGGGTCCCTGCCAGGGTGCGA			
				GGAGTTGTGTGGGGAAGCGAGGGGGAAAGGCTGGAGAAGTGGTGAGGGTTATCTGATGGC[CT]TTCCAGGGTCCCTGCCAGGGTGCGACACTCACCTCC			
12097	IS	[CT]		TTCAGCCTCTTCACAGCATACACC	ctg15665	20	
12101	I		S	TGCGCCACCTCTTTGGTATTGATCTCTTCCATCTGT			
12101	P	G	S	ATGACGTGGCAGACCCCTGAATTACTTCCATTGCY			
12101	P	T	S	CGCGCCGAGGACCTGAATTACTTCCATTGCY			
12101	T	G	S	GTCAGCAATGGAAGTAATTCAGGGCAGATGGAAGAGATCAATACCAAAGAGGTGGCGCAGC			
12101	T	T	S	GTCAGCAATGGAAGTAATTCAGGTCAGATGGAAGAGATCAATACCAAAGAGGTGGCGCAGC			
				AGCCCGGGAGCCCAACCCTTCGGTGACCGGCGCGCAGGTCAGCAATGGAAGTAATTCAGG[GT]CAGATGGAAGAGATCAATACCAAAGAGGTGGCGCAGC			
12101	IS	[GT]		GTATCACCACCGAGCTCAAGCGC	ctg14243	19	
12102	I		A	ACATCCCAATATGGTGGGGACCTCACAAACACATTA			
12102	P	C	A	ATGACGTGGCAGACCGGAGCAATTCAATATGCY			
12102	P	T	A	CGCGCCGAGGTGGAGCAATTCAATATGCAY			
12102	T	C	A	ACCTTGCATATTGAATTGCTCCGAATGTGTTTGTGAGGTCCCCACCATATTGGGATGTCT			
12102	T	T	A	ACCTTGCATATTGAATTGCTCCAAATGTGTTTGTGAGGTCCCCACCATATTGGGATGTCT			
				AGAAATGATTGTAGCAACATCCCAGACATCCCAATATGGTGGGGACCTCACAAACACATT[CT]GGAGCAATTCAATATGCAAGGTAAGTTTTGGTGCTAATAG			
12102	IS	[CT]		GCCAATGTTTTCATAATGTA	ctg15590	7	
12105	I		A	CCCAGGAGCCCACAGACTGGGTTTCCT			
12105	P	A	A	CGCGCCGAGGATCTGCGTACTTGCCAY			
12105	P	G	A	ATGACGTGGCAGACGTCTGCGTACTTGCCY			
12105	T	A	A	TGTGTGGCAAGTACGCAGATGGAAACCCAGTCTGTGGGCTCCTGGGTG			
12105	T	G	A	TGTGTGGCAAGTACGCAGACGGAAACCCAGTCTGTGGGCTCCTGGGTG			

PRELIMINARY DRAFT

				GAGAGGGGCCAGCTGGAGGTAGCAGGGAGTAGCACCCAGGAGCCCACAGACTGGGTTTCC[AG]TCTGCGTACTTGCCACACACTATGTGACCCCTTGGCA			
12105	IS	[AG]		TGAGCCCCGTTTGCCTCATCTGC	ctg15144	12	
12106	I		A	CACCTCCTCAGCCTCCTGGTTCCCCT			
12106	P	C	A	CGCGCCGAGGCCTACCCCCTGCGY			
12106	P	G	A	ATGACGTGGCAGACGCTACCCCCTGCGY			
12106	T	C	A	TGTGCGCAGGGGGTAGGGGGGAACCAGGAGGCTGAGGAGGTGCT			
12106	T	G	A	TGTGCGCAGGGGGTAGCGGGGAACCAGGAGGCTGAGGAGGTGCT			
				CAAGGGGGCCTGAGGGAGCTGCAGTAGGGTCTCAGCACCTCCTCAGCCTCCTGGTTCCCC[CG]CTACCCCCTGCGCACAGATATCCAGTTCTGGAACAGC			
12106	IS	[CG]		CGGCAGTCCCTGGAGGGCCTGTC	ctg19262	19	
12110	I		A	GGGCGTTCTTCTCTGAGCCTGTTTCCACTA			
12110	P	T	A	CGCGCCGAGGTTTAAAATGATTATGGTGATGGAGY			
12110	P	C	A	ATGACGTGGCAGACCTTAAAATGATTATGGTGATGGAGY			
12110	T	T	A	CAGTCTCCATCACCATAATCATTTTAAAAGTGGAAACAGGCTCAGAGAAGAACGCCCCT			
12110	T	C	A	CAGTCTCCATCACCATAATCATTTTAAGAGTGGAAACAGGCTCAGAGAAGAACGCCCCT			
				GAGACCTGAGTTCCAGTCCTGGCTTTGTCAGGGGCGTTCTTCTCTGAGCCTGTTTCCACT[TC]TTAAAATGATTATGGTGATGGAGACTGACTCTGATTCAC			
12110	IS	[TC]		AGGGGCAGGGTCCATCATTGC	ctg22fin4	22	
12112	I		S	GCCCAGGGCCCTCTGTGGGTT			
12112	P	C	S	ATGACGTGGCAGACGCAGGATCATCCAGGCY			
12112	P	T	S	CGCGCCGAGGACAGGATCATCCAGGCY			
12112	T	C	S	CCCAGCCTGGATGATCCTGCACCCACAGAGGGCCCTGGGCAA			
12112	T	T	S	CCCAGCCTGGATGATCCTGTACCCACAGAGGGCCCTGGGCAA			
				CTTCGGTACCACACAGCACACACATAGAGCAGAGGTTCCCAGCCTGGATGATCCTG[CT]ACCCACAGAGGGCCCTGGGCAATGTCTGGAGACATCTGTGGT			
12112	IS	[CT]		TGTCACAGCCTGGGCGGG	ctg15279	10	
12114	I		A	CACAGCTCAAAAATGTTTTACCTGATTAAAAAAAAACCCAAACTAGA			
12114	P	T	A	CGCGCCGAGGTTGTTTGATCATTTTTGAAAGTAACY			
12114	P	C	A	ATGACGTGGCAGACCTGTTTGATCATTTTTGAAAGTAACY			
12114	T	T	A	TAGGGTTACTTTCAAAAATGATCAAACAACTAGTTTGGGTTTTTTTTTAATCAGGTAAAACATTTTTGAGCTGTGGA			
12114	T	C	A	TAGGGTTACTTTCAAAAATGATCAAACAGCTAGTTTGGGTTTTTTTTTAATCAGGTAAAACATTTTTGAGCTGTGGA			
				ATTTTAAACTCTTCCACAGCTCAAAAATGTTTTACCTGATTAAAAAAAAACCCAAACTAG[TC]TGTTTGATCATTTTTGAAAGTAACCCTAGAACTCTACAACTA			
12114	IS	[TC]		ACATGAACTGGCACTGAG	MULTIPLE	MULTIPLE	
12119	I		S	TCACTAGGAATTTTCATTTTCATTTAGGTTTTGTAATGTCCTTGTCTT			
12119	P	T	S	CGCGCCGAGGATTTTCATGACTGTTGATAATTTGTY			
12119	P	C	S	ATGACGTGGCAGACGTTTTCATGACTGTTGATAATTTGY			
12119	T	T	S	TAAGACAAATTATCAACAGTCATGAAAATAGACAAGGACATTACAAAACCTAAATGAAAATGAAAATTCCTAGTGATG			
12119	T	C	S	TAAGACAAATTATCAACAGTCATGAAAACAGACAAGGACATTACAAAACCTAAATGAAAATGAAAATTCCTAGTGATG			
				TAATCTCAGGTGTTTTCATAGATCAAAGTGGGTAAGACAAATTATCAACAGTCATGAAAA[TC]AGACAAGGACATTACAAAACCTAAATGAAAATGAAAATTCC			
12119	IS	[TC]		TAGTGATGTTATATCCTAA	ctg15540	4	
12120	I		A	GGCGAGGGGCCCCCGCC			
12120	P	T	A	CGCGCCGAGGTGGGCTGCGATGGY			
12120	P	G	A	ATGACGTGGCAGACGGGGCTGCGATGGY			
12120	T	T	A	CAGGCCATCGCAGCCCAGCGGGGGCCCCTCGCCCC			
12120	T	G	A	CAGGCCATCGCAGCCCCGCGGGGGCCCCTCGCCCC			
				CCCGGGCACATTCGAGGAGTGCCACCGGAAGTGCAAGGGTGAGGGGCGAGGGGCCCCCGC[TG]GGGCTGCGATGGCCTGGATCTCGGGGGAAGGGGG			
12120	IS	[TG]		AGGACACTGGGGACTCTGGGATTTGG	ctg15064	7	
12128	I		S	TCCACTTGTAAACTTTGAATATGATTACTCCGAACACTGTGACCACT			
12128	P	C	S	ATGACGTGGCAGACGAACCCCACAGAAACCY			
12128	P	T	S	CGCGCCGAGGAAACCCCACAGAAACCAY			
12128	T	C	S	ATCCTGGTTTCTGTGGGGTTCGTGGTCACAGTGTTCGGAGTAATCATATTCAAAGTTTACAAGTGGAAG			
12128	T	T	S	ATCCTGGTTTCTGTGGGGTTTGTGGTCACAGTGTTCGGAGTAATCATATTCAAAGTTTACAAGTGGAAG			
				GCAGAAAAAAAATCTCACCTTTTATCTACTTCTTTCTCTAATCCTGGTTTCTGTGGGGTT[CT]GTGGTCACAGTGTTCGGAGTAATCATATTCAAAGTTTACAA			
12128	IS	[CT]		GTGGAAGCAGTCTAGAGAC	ctg22fin7	22	
12136	I		S	CAGCTATGCCCTCTGCTCCTCATCCTCCTAT			
12136	P	C	S	ATGACGTGGCAGACGGTATAGTTCAAAGTCGTTTCY			
12136	P	T	S	CGCGCCGAGGAGTATAGTTCAAAGTCGTTTCCY			
12136	T	C	S	ACTGGGAAACGACTTTGAACTATACCTAGGAGGATGAGGAGCAGAGGGCATAGCTGGG			
12136	T	T	S	ACTGGGAAACGACTTTGAACTATACTTAGGAGGATGAGGAGCAGAGGGCATAGCTGGG			
				TGAAAGGAATTGGAAGGAGAAGTGAGCTTAAGGGGACTGGGAAACGACTTTGAACTATAC[CT]TAGGAGGATGAGGAGCAGAGGGCATAGCTGGGGACGA			
12136	IS	[CT]		TTACCACCAAATGAAAGCAATCC	ctg18911	9	
12137	I		A	GCAAGGCCGCCTGCCCGCA			
12137	P	C	A	ATGACGTGGCAGACCGTGGCCCAGGCY			
12137	P	T	A	CGCGCCGAGGTGTGGCCCAGGCY			
12137	T	C	A	CACGGCCTGGGCCACGGCGGGCAGGCGGCCTTGCAG			
12137	T	T	A	CACGGCCTGGGCCACAGCGGGCAGGCGGCCTTGCAG			
				GCACACAAAGGAGGACACTTATGAGAACCTGCATAAGGTGCTGCAAGGCCGCCTGCCCGC[CT]GTGGCCCAGGCCGTGGCCCAGCTCGCAGGGCAGCTC			
12137	IS	[CT]		CTCATCCGGCTCAGCCACGATCGC	ctg17004	X	TFR2
12140	I		A	GGTGCTAGAACTCCGGCCGGCAC			
12140	P	G	A	ATGACGTGGCAGACGCTCCTTTTCTCGCCY			
12140	P	T	A	CGCGCCGAGGTCTCCTTTTCTCGCCAY			
12140	T	G	A	GCAGTGGCGAGAAAAGGAGCTGCCGGCCGGAGTTCTAGCACCGA			
12140	T	T	A	GCAGTGGCGAGAAAAGGAGATGCCGGCCGGAGTTCTAGCACCGA			
				GGCTTCCCTCACCCGGCCGCTCCGCACCTCTCCTTCTCGGTGCTAGAACTCCGGCCGGCA[GT]CTCCTTTTCTCGCCACTGCCTCCTGCCCTGCGGAGAA			
12140	IS	[GT]		GCGAGAGGGCGAGACACCCGAGC			
12142	I		S	TCTTTCTCTCCCAACCCGTGTCAGGTCCTTCC			
12142	P	A	S	CGCGCCGAGGTTCCTGGATACTCATAACGY			
12142	P	T	S	ATGACGTGGCAGACATCCTGGATACTCATAACGCY			
12142	T	A	S	GGCCGCGTTATGAGTATCCAGGAAGAAGGACCTGACACGGGTTGGGAGAGAAAGAGA			
12142	T	T	S	GGCCGCGTTATGAGTATCCAGGATGAAGGACCTGACACGGGTTGGGAGAGAAAGAGA			
				CTCTAGAAACGCGACGCCCAATGGGAGTGAGAAATGGGGCCGCGTTATGAGTATCCAGGA[AT]GAAGGACCTGACACGGGTTGGGAGAGAAAGAGAAACT			
12142	IS	[AT]		CTGGGGAGATGGGGAATTCTCAA	ctg15064	7	
12151	I		A	CGGGCCCAAGGCTGCTGCCC			
12151	P	G	A	ATGACGTGGCAGACGGTGTGTGTCAAAGGGY			
12151	P	T	A	CGCGCCGAGGTGTGTGTGTCAAAGGGAY			
12151	T	G	A	TGGTTCCCTTTGACACACACCGGCAGCAGCCTTGGGCCCGTG			
12151	T	T	A	TGGTTCCCTTTGACACACACAGGCAGCAGCCTTGGGCCCGTG			
				TTGAGTGTGAAGCAGAGAACAAGGCCTGAGAGGAAAAGTCACGGGCCCAAGGCTGCTGCC[GT]GTGTGTGTCAAAGGGAACCACTCATCAGTATTCGAGG			
12151	IS	[GT]		GATCGTCTTCCCGTCATTCCTTC	ctg19247	7	
12158	I		A	GCAGGCCTGGTCTCCACGAGCTCCT			
12158	P	A	A	CGCGCCGAGGACGTCCTGGGTCTGY			
12158	P	G	A	ATGACGTGGCAGACGCGTCCTGGGTCTGY			
12158	T	A	A	GGACCAGACCCAGGACGTGGAGCTCGTGGAGACCAGGCCTGCAG			
12158	T	G	A	GGACCAGACCCAGGACGCGGAGCTCGTGGAGACCAGGCCTGCAG			
				ACCACAGCTGCCCACTTCTGGAAGGTTCCATCCCCTGCAGGCCTGGTCTCCACGAGCTCC[AG]CGTCCTGGGTCTGGTCCTCCCCATCCCGCTGCCAGGT			
12158	IS	[AG]		CAGTATGATCTCCGCAGGGTAGA	ctg25099	7	MULTIPLE SHORT GENE NAMES
12169	I		A	CCATCCCATCCTCGTCTTTATCCCAACCGAACA			
12169	P	T	A	CGCGCCGAGGTCCTTCCTTCCCCACY			
12169	P	C	A	ATGACGTGGCAGACCCCTTCCTTCCCCACY			
12169	T	T	A	AGTGGTGGGGAAGGAAGGAGTTGGGTTGGGATAAAGACGAGGATGGGATGGGG			
12169	T	C	A	AGTGGTGGGGAAGGAAGGGGTTGGGTTGGGATAAAGACGAGGATGGGATGGGG			

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FIGURE 129E

				ACCTTCCAGCTCATACCTAATTCCAACCCCATCCCATCCTCGTCTTTATCCCAACCCAAC[TC]CCTTCCTTCCCCACCACTGCCCCAGATCCCAAAGTGACAG			
12169	IS	[TC]		CTCTCACGTTGGCACATTTA	ctg15140	12	
12174	I		A	GGCTAGGGGACAGCAGTGTGTCCAATGCA			
12174	P	C	A	ATGACGTGGCAGACCCACCCTTTTTCTTGCAY			
12174	P	T	A	CGCGCCGAGGTCACCCTTTTTCTTGCAGY			
12174	T	C	A	GCACCTGCAAGAAAAAGGGTGGGCATTGGACACACTGCTGTCCCCTAGCCCC			
12174	T	T	A	GCACCTGCAAGAAAAAGGGTGAGCATTGGACACACTGCTGTCCCCTAGCCCC			
				AGAGGTGGGTGGGGCAGTGGTTGGGGCAGGGGGGGCTAGGGGACAGCAGTGTGTCCAATGC[CT]CACCCTTTTTCTTGCAGGTGCTCCGAACCCTGGGTT			
12174	IS	[CT]		ACGTGGACGAGGCGGGCACTGTGA	ctg15064	7	
12203	I		S	GGAGCTCCATAAGATTTTATTTGTGGCTTTTAAGGAGAGAACATTTCCTCC			
12203	P	T	S	CGCGCCGAGGATCTGTTGGATCAAAGGGY			
12203	P	A	S	ATGACGTGGCAGACTTCTGTTGGATCAAAGGGY			
12203	T	T	S	GGAGCCCTTTGATCCAACAGATGAGGAAATGTTCTCTCCTTAAAAGCCACAAATAAAATCTTATGGAGCTCCAA			
12203	T	A	S	GGAGCCCTTTGATCCAACAGAAGAGGAAATGTTCTCTCCTTAAAAGCCACAAATAAAATCTTATGGAGCTCCAA			
				TGAAGGCGATTAAAATGCACACAAATTTGTTTCTGGCTTGGAGCCCTTTGATCCAACAGA[TA]GAGGAAATGTTCTCTCCTTAAAAGCCACAAATAAAATCTTA			
12203	IS	[TA]		TGGAGCTCCAAATATGCCC	ctg13740	5	
12216	I		A	CCTTCTTGAGAAGTGAAAAATGCAAAGTCCTTTCTGTCA			
12216	P	T	A	CGCGCCGAGGTCCTCACCACTGACTTGY			
12216	P	C	A	ATGACGTGGCAGACCCCTCACCACTGACTTY			
12216	T	T	A	TTTGCAAGTCAGTGGTGAGGAGACAGAAAGGACTTTGCATTTTTCACTTCTCAAGAAGGCT			
12216	T	C	A	TTTGCAAGTCAGTGGTGAGGGGACAGAAAGGACTTTGCATTTTTCACTTCTCAAGAAGGCT			
				CTGGGGTAGGGCTCTTTATAAGCCTTCTTGAGAAGTGAAAAATGCAAAGTCCTTTCTGTC[TC]CCTCACCACTGACTTGCAAACTCCAGCGAAGGCCTCACC			
12216	IS	[TC]		CCTCAGCTGGCCCAGAGCCTC			
12221	I		A	CCTCACCGAGCATGCTTCCCTAGGATCCA			
12221	P	C	A	ATGACGTGGCAGACCGTCTTCCAGAGAACCTY			
12221	P	T	A	CGCGCCGAGGTGTCTTCCAGAGAACCTGY			
12221	T	C	A	CCCACAGGTTCTCTGGAAGACGGGATCCTAGGGAAGCATGCTCGGTGAGGAA			
12221	T	T	A	CCCACAGGTTCTCTGGAAGACAGGATCCTAGGGAAGCATGCTCGGTGAGGAA			
				AGAGAGGAACCAATACCTTCAAGGCTCTTCTTCCTCACCGAGCATGCTTCCCTAGGATCC[CT]GTCTTCCAGAGAACCTGTGGGCTGACTGCCCTCCGAAG			
12221	IS	[CT]		AGAGTTCTGGATGTCTGGCTCA	ctg19262	19	SMOH
12223	I		A	GGTTGCCGGGTGGAAATGCCTTTTCTACAAAAGA			
12223	P	C	A	ATGACGTGGCAGACCTAAATCCATCTGTTTGCAACY			
12223	P	T	A	CGCGCCGAGGTTAAATCCATCTGTTTGCAACY			
12223	T	C	A	AGAGGTTGCAAACAGATGGATTTAGCTTTTGTAGAAAAGGCATTTCCACCCGGCAACCCT			
12223	T	T	A	AGAGGTTGCAAACAGATGGATTTAACTTTTGTAGAAAAGGCATTTCCACCCGGCAACCCT			
				CTTCCCCAGTTCCTCAGGATGGGGAAGGGTTGCCGGGTGGAAATGCCTTTTCTACAAAAG[CT]TAAATCCATCTGTTTGCAACCTCTAGGCCCTAAGACAAT			
12223	IS	[CT]		TTAACCATCCTTTTCCAGAAC	ctg_na	NA	
12288	I		S	ACCGTACCCGGCCTCTTGGGCTTA			
12288	P	A	S	CGCGCCGAGGTTCTGATGAGAAAAGGTGGY			
12288	P	G	S	ATGACGTGGCAGACCTCTGATGAGAAAAGGTGGY			
12288	T	A	S	GTCACCACCTTTTCTCATCAGAAAAGCCCAAGAGGCCGGGTACGGTGG			
12288	T	G	S	GTCACCACCTTTTCTCATCAGAGAAGCCCAAGAGGCCGGGTACGGTGG			
				CGCCTCTGATATTTCTTTCAAAGCATTGGCCCAGTATCGTCACCACCTTTTCTCATCAGA[AG]AAGCCCAAGAGGCCGGGTACGGTGGCTCACGCTTGTAAT			
12288	IS	[AG]		CCCAGCACTTTGGGAGGCCAA	ctg22fin3	22	
12302	I		S	GCCCTTTTATTGAATTAGATAGCCATGTGAGCCTGA			
12302	P	A	S	CGCGCCGAGGTGGGTACTTGGGACCY			
12302	P	G	S	ATGACGTGGCAGACCGGGTACTTGGGACCY			
12302	T	A	S	ATGTGGTCCCAAGTACCCACAGGCTCACATGGCTATCTAATTCAATAAAAGGGCCT			
12302	T	G	S	ATGTGGTCCCAAGTACCCGCAGGCTCACATGGCTATCTAATTCAATAAAAGGGCCT			
				TAGAAGTGAGATTCTCATCCAGAGATAATCCAGTAGGAAAAAATGTGGTCCCAAGTACCC[AG]CAGGCTCACATGGCTATCTAATTCAATAAAAGGGCCTTAT			
12302	IS	[AG]		TTTTTCTTGAAATATCTGTT	ctg19247	7	
12323	I		A	AGGAGGAGAAGGAAAAAAAAGAATTAGAAAACAACATCCTCTATGGTAGCTTT			
12323	P	G	A	ATGACGTGGCAGACGAAAATGGACCAAACAGTTTATY			
12323	P	C	A	CGCGCCGAGGCAAAATGGACCAAACAGTTTATY			
12323	T	G	A	ATAAATAAACTGTTTGGTCCATTTTCAAGCTACCATAGAGGATGTTGTTTTCTAATTCTTTTTTTTCCTTCTCCTCCTTA			
12323	T	C	A	ATAAATAAACTGTTTGGTCCATTTTGAAGCTACCATAGAGGATGTTGTTTTCTAATTCTTTTTTTTCCTTCTCCTCCTTA			
				GGAGAATAAGGAGGAGAAGGAAAAAAAAGAATTAGAAAACAACATCCTCTATGGTAGCTT[GC]AAAATGGACCAAACAGTTTATTTATGCATATGTTCGTTTT			
12323	IS	[GC]		ATACAAATAATCCCAGAATC	ctg15972	16	
12326	I		A	GTGAGTCTCCCTTGGCGGCCGTTCA			
12326	P	T	A	CGCGCCGAGGTTGGGATGCCGCCY			
12326	P	C	A	ATGACGTGGCAGACCTGGGATGCCGCCY			
12326	T	T	A	AGCTGGCGGCATCCCAAGAACGGCCGCCAAGGGAGACTCACCT			
12326	T	C	A	AGCTGGCGGCATCCCAGGAACGGCCGCCAAGGGAGACTCACCT			
				GCAGGGAAGGAGCTGAGGAATGACTGGACTGTGCAGGTGAGTCTCCCTTGGCGGCCGTTC[TC]TGGGATGCCGCCAGCTCCATTGCTCATGCCGCCTGC			
12326	IS	[TC]		GCTGCCAATCTGACATTCATGCCT	ctg14932	16	
12351	I		A	ACCAGGAGGAAGCCCACGCCCTA			
12351	P	T	A	CGCGCCGAGGTGCACACCTGATGCCY			
12351	P	C	A	ATGACGTGGCAGACCGCACACCTGATGCY			
12351	T	T	A	ATGTGGCATCAGGTGTGCAAGGGCGTGGGCTTCCTCCTGGTGA			
12351	T	C	A	ATGTGGCATCAGGTGTGCGAGGGCGTGGGCTTCCTCCTGGTGA			
				GGCCTCTGCTTCCCTGCCCCTCCCCCTGCCCCCACCTCACCAGGAGGAAGCCCACGCCCT[TC]GCACACCTGATGCCACATCCGCTTGAGTGGCAGGCGA			
12351	IS	[TC]		GTGAAGATGTTGCCCAAATCCTG	ctg18037	7	
12362	I		A	GGAGGTGCAACAGGCCACTCATCGTGAT			
12362	P	G	A	ATGACGTGGCAGACGGCCTCCCCTTCTACY			
12362	P	A	A	CGCGCCGAGGAGCCTCCCCTTCTACY			
12362	T	G	A	GAGGGTAGAAGGGGAGGCCTCACGATGAGTGGCCTGTTGCACCTCCAG			
12362	T	A	A	GAGGGTAGAAGGGGAGGCTTCACGATGAGTGGCCTGTTGCACCTCCAG			
				CCTGCCCAACAGCAACACGCCCGCAGCTGACCTGGAGGTGCAACAGGCCACTCATCGTGA[GA]GCCTCCCCTTCTACCCTCAACGACAAAAGTGGCCTGC			
12362	IS	[GA]		ATTTAGGGAAGCCTGGCCACCGG	ctg15054	1	SCA1
12370	I		A	TGGAAGTCAAGAAACCACTTTACCTCCTAGCTCTGTCAT			
12370	P	A	A	CGCGCCGAGGATAACCAGCCATGAATCCY			
12370	P	C	A	ATGACGTGGCAGACCTAACCAGCCATGAATCCY			
12370	T	A	A	TCTAGGATTCATGGCTGGTTATTGACAGAGCTAGGAGGTAAAGTGGTTTCTTGACTTCCAGA			
12370	T	C	A	TCTAGGATTCATGGCTGGTTAGTGACAGAGCTAGGAGGTAAAGTGGTTTCTTGACTTCCAGA			
				CATTGTGGCATCATAGAAAATCTGGAAGTCAAGAAACCACTTTACCTCCTAGCTCTGTCA[AC]TAACCAGCCATGAATCCTAGAGTGATTCATTTCACTTCTCT			
12370	IS	[AC]		GGGAGATGGCTCCCTCATT	ctg16166	14	
12391	I		A	CCCGAGATGCCGAGGATTTTGACAAGGACTCA			
12391	P	T	A	CGCGCCGAGGTGTCGTCCCGGATGY			
12391	P	C	A	ATGACGTGGCAGACCGTCGTCCCGGATGY			
12391	T	T	A	CTATCATCCGGGACGACAGAGTCCTTGTCAAAATCCTCGGCATCTCGGGCA			
12391	T	C	A	CTATCATCCGGGACGACGGAGTCCTTGTCAAAATCCTCGGCATCTCGGGCA			
				GGGAGGTGCAGAGCGCATGCTCTCTCTTGCCCGAGATGCCGAGGATTTTGACAAGGACTC[TC]GTCGTCCCGGATGATAGTGCTCAGGTTAATGCCAGTG			
12391	IS	[TC]		GGAGGGCGGCGCCCAATAGTAAC	ctg12325	11	
12393	I		A	AGACCAGCCTGGCCAACATAGTGAAACCCA			
12393	P	T	A	CGCGCCGAGGTATCTCTACTAAAAATACAAAAATTAGCCY			
12393	P	C	A	ATGACGTGGCAGACCATCTCTACTAAAAATACAAAAATTAGCY			
12393	T	T	A	GCCCGGCTAATTTTTGTATTTTTAGTAGAGATAGGGTTTCACTATGTTGGCCAGGCTGGTCTTG			
12393	T	C	A	GCCCGGCTAATTTTTGTATTTTTAGTAGAGATGGGGTTTCACTATGTTGGCCAGGCTGGTCTTG			

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FIGURE 129E

				GGAGGCCGAGATGGGCAAGGTCAGGAGTTCAAGACCAGCCTGGCCAACATAGTGAAACCC[TC]ATCTCTACTAAAAATACAAAAATTAGCCGGGCATGGTG		
12393 IS	[TC]			GCACGTGCCTATAGTCCCAGCT	ctg5212	19
12395 I			A	GGTCAGGCTAGGGTGAGGACCACGCT		
12395 P	A		A	CGCGCCGAGGAGCCTGCTCACGCY		
12395 P	G		A	ATGACGTGGCAGACGGCCTGCTCACGCY		
12395 T	A		A	AGATGCGTGAGCAGGCTGCGTGGTCCTCACCCTAGCCTGACCAG		
12395 T	G		A	AGATGCGTGAGCAGGCCGCGTGGTCCTCACCCTAGCCTGACCAG		
				GAGGTGCTGCATGCAGAGTGACCCAGTAAATTCCTGGTCAGGCTAGGGTGAGGACCACGC[AG]GCCTGCTCACGCATCTTCCGTCCCTGTCTCCCCGCTG		
12395 IS	[AG]			CTCAGCACCTCTGCTCTCTGGCC	ctg15907	6
12429 I			S	CAATTCTACTCTGTACTCAGTGGCCATTAAGCCAGCATTT		
12429 P	G		S	CGCGCCGAGGCTGCCTCTGCTGCAY		
12429 P	C		S	ATGACGTGGCAGACGTGCCTCTGCTGCAY		
12429 T	G		S	CTGATGCAGCAGAGGCAGAATGCTGGCTTAATGGCCACTGAGTACAGAGTAGAATTGGA		
12429 T	C		S	CTGATGCAGCAGAGGCACAATGCTGGCTTAATGGCCACTGAGTACAGAGTAGAATTGGA		
				CTCGTGGTGGCCCTGCTTCCTCACTGCTTCGGAGACGCTCATGCTGATGCAGCAGAGGCA[GC]AATGCTGGCTTAATGGCCACTGAGTACAGAGTAGAATT		
12429 IS	[GC]			GGAGTAAACTGAGGGCTGTTTC	ctg25099	7
12471 I			A	CTCTGGAAACCGGCCAGTTCTGCCGAAATAAAA		
12471 P	C		A	ATGACGTGGCAGACCCACAGTTTCACTCCTGY		
12471 P	T		A	CGCGCCGAGGTCACAGTTTCACTCCTGGY		
12471 T	C		A	TAAGCCAGGAGTGAAACTGTGGTTTATTTCGGCAGAACTGGCCGGTTTCCAGAGAC		
12471 T	T		A	TAAGCCAGGAGTGAAACTGTGATTTATTTCGGCAGAACTGGCCGGTTTCCAGAGAC		
				CCTGAAGGAGATGCCCGATACCGGGGGTCTCTGGAAACCGGCCAGTTCTGCCGAAATAAA[CT]CACAGTTTCACTCCTGGCTTAGGCAAGCAGCTGGCAGA		
12471 IS	[CT]			GACCTTGGAGACAGCCATGGGC	ctg12483	1
12479 I			A	CCTTAGTTTTCTGATGGGGAAGAGAGATCACTCATATAAAGATTTAATC		
12479 P	G		A	ATGACGTGGCAGACGCAGGCTTTATACCTGTAATY		
12479 P	T		A	CGCGCCGAGGTCAGGCTTTATACCTGTAATACY		
12479 T	G		A	TGAGGTATTACAGGTATAAAGCCTGCATTAAATCTTTATATGAGTGATCTCTCTTCCCCATCAGAAAACTAAGGAA		
12479 T	T		A	TGAGGTATTACAGGTATAAAGCCTGAATTAAATCTTTATATGAGTGATCTCTCTTCCCCATCAGAAAACTAAGGAA		
				TTTGAAAATTTTCCTTAGTTTTCTGATGGGGAAGAGAGATCACTCATATAAAGATTTAAT[GT]CAGGCTTTATACCTGTAATACCTCATACTGTAATATTCATG		
12479 IS	[GT]			GCTTATGATATTTGTATCT	ctg22fin6	22
12482 I			S	AGTGTGCAAACCATCCGAAATGTGTTCAGCGTA		
12482 P	A		S	CGCGCCGAGGTGAAGCTGGATATCGGCY		
12482 P	G		S	ATGACGTGGCAGACCGAAGCTGGATATCGGY		
12482 T	A		S	GAGAGCCGATATCCAGCTTCAACGCTGAACACATTTCGGATGGTTTGCACACTCA		
12482 T	G		S	GAGAGCCGATATCCAGCTTCGACGCTGAACACATTTCGGATGGTTTGCACACTCA		
				TTCATAGTGGTTTGGAAAATGGTTGACTATTTGGTCATCTGAGAGCCGATATCCAGCTTC[AG]ACGCTGAACACATTTCGGATGGTTTGCACACTCATCCTGA		
12482 IS	[AG]			AAGAGATGAGCAGGAGAGAC	ctg12325	11
12484 I			A	GTGCAAGTGTGTCCTATGGATGACAAGGGCTATAGTCA		
12484 P	T		A	CGCGCCGAGGTTGTGTCCCCAAGGAAY		
12484 P	C		A	ATGACGTGGCAGACCTGTGTCCCCAAGGAAY		
12484 T	T		A	CACTTTCCTTGGGGACACAAGACTATAGCCCTTGTCATCCATAGGACACACTTGCACTT		
12484 T	C		A	CACTTTCCTTGGGGACACAGGACTATAGCCCTTGTCATCCATAGGACACACTTGCACTT		
				CGAGTTCTGAGTTAACTCGGCAAGTGCAAGTGTGTCCTATGGATGACAAGGGCTATAGTC[TC]TGTGTCCCCAAGGAAAGTGGACAAAAGCTCATGGAGCC		
12484 IS	[TC]			TGTGCCTTCTGGTGATGGGCGC	ctg15285	12
12526 I			A	CCAAAACCCTTGAAACTTCATGTTGTTACAGATGACTGCAAACT		
12526 P	A		A	CGCGCCGAGGACAACACCAATTTTTCTAACTTY		
12526 P	G		A	ATGACGTGGCAGACGCAACACCAATTTTTCTAACTY		
12526 T	A		A	TTTCAAGTTAGAAAAATTGGTGTTGTGTTTGCAGTCATCTGTAACAACATGAAGTTTCAAGGGTTTTGGCA		
12526 T	G		A	TTTCAAGTTAGAAAAATTGGTGTTGCGTTTGCAGTCATCTGTAACAACATGAAGTTTCAAGGGTTTTGGCA		
				TACTTCATGTGGGTCTGCCAAAACCCTTGAAACTTCATGTTGTTACAGATGACTGCAAAC[AG]CAACACCAATTTTTCTAACTTGAAATGATGTTATAAGTGAA		
12526 IS	[AG]			TTCCCAGCTTGCTGAACCA		
12529 I			S	CCCTAAAGAGACTTATTCACAAACTGCAAATGAGTGTTTGCACAT		
12529 P	G		S	ATGACGTGGCAGACCCCTCAGCCTCTGGY		
12529 P	T		S	CGCGCCGAGGACCTCAGCCTCTGGTY		
12529 T	G		S	TTAAACCAGAGGCTGAGGGTGTGCAAACACTCATTTGCAGTTTGTGAATAAGTCTCTTTAGGGGT		
12529 T	T		S	TTAAACCAGAGGCTGAGGTTGTGCAAACACTCATTTGCAGTTTGTGAATAAGTCTCTTTAGGGGT		
				TCAGTAGCCCTATTAGAGATTATGTTAACACTTGAAGAGGAGTTAAACCAGAGGCTGAGG[GT]TGTGCAAACACTCATTTGCAGTTTGTGAATAAGTCTCTTT		
12529 IS	[GT]			AGGGGTGGCAGTTTGTTTCT	ctg18709	X
12530 I			S	GTTCCCAAAGGAATTGTCATGTGAAGTAATGTTCTCTCTGTTCTTATTTTCAACT		
12530 P	T		S	CGCGCCGAGGAAATTGCCCAGACTGAAGY		
12530 P	G		S	ATGACGTGGCAGACCAATTGCCCAGACTGAAY		
12530 T	T		S	TTTGCTTCAGTCTGGGCAATTTGTTGAAAATAAGAACAGAGAGAACATTACTTCACATGACAATTCCTTTGGGAACGC		
12530 T	G		S	TTTGCTTCAGTCTGGGCAATTGGTTGAAAATAAGAACAGAGAGAACATTACTTCACATGACAATTCCTTTGGGAACGC		
				TTAACTTCTTTACATGCCCAACTACTCTTGACAGTTACTTTTGCTTCAGTCTGGGCAATT[TG]GTTGAAAATAAGAACAGAGAGAACATTACTTCACATGACAA		
12530 IS	[TG]			TTCCTTTGGGAACGCATAC	ctg16263	1
12532 I			A	GCTGCCCTCTCCTGACCTCCCCCT		
12532 P	C		A	CGCGCCGAGGCCTCCAGAAGCATTCCTY		
12532 P	G		A	ATGACGTGGCAGACGCTCCAGAAGCATTCCY		
12532 T	C		A	AATAAGGAATGCTTCTGGAGGGGGGGAGGTCAGGAGAGGGCAGCTC		
12532 T	G		A	AATAAGGAATGCTTCTGGAGCGGGGGAGGTCAGGAGAGGGCAGCTC		
				TCTAAACATGGGAACAAACTCCCCAAAAAGAGACAGAGCTGCCCTCTCCTGACCTCCCCC[CG]CTCCAGAAGCATTCCTTATTCGTGGTCTTTTTTGTTTGTT		
12532 IS	[CG]			TGTTTGTTTGTTGTGGTTA	ctg13960	1
12542 I			S	TGCCCGACTCCCCTGCCCTGTA		
12542 P	A		S	CGCGCCGAGGTGCCCATCGAGCTCY		
12542 P	G		S	ATGACGTGGCAGACCGCCCATCGAGCTY		
12542 T	A		S	GCTTGAGCTCGATGGGCAACAGGGCAGGGGAGTCGGGCACA		
12542 T	G		S	GCTTGAGCTCGATGGGCGACAGGGCAGGGGAGTCGGGCACA		
				GAGGGCCTGACCTGCAGGGCCGGCAGGTACTTGGGCAGCTCCTGCTTGAGCTCGATGGGC[AG]ACAGGGCAGGGGAGTCGGGCACATAGTCGCCCTCTG		
12542 IS	[AG]			TCAGGGCGCTGCTCTGCGGCGTTC	ctg15907	6
12559 I			A	CTCTTGCAAGGGGTAAGGGCACTCCTCTA		
12559 P	C		A	ATGACGTGGCAGACCGGAGGAACAGCCTY		
12559 P	T		A	CGCGCCGAGGTGGAGGAACAGCCTGY		
12559 T	C		A	CTCCCAGGCTGTTCCTCCGAGAGGAGTGCCCTTACCCCTTGCAAGAGGT		
12559 T	T		A	CTCCCAGGCTGTTCCTCCAAGAGGAGTGCCCTTACCCCTTGCAAGAGGT		
				TCCTTGGGTCCTTGTCATATTGTGGAAGGAACCTCTTGCAAGGGGTAAGGGCACTCCTCT[CT]GGAGGAACAGCCTGGGAGTGGCTACTTTGAGGCTCTTG		
12559 IS	[CT]			GTGCTGGAGTGTCATCAGCACA	ctg16105	5
12582 I			S	CATACATGACTCATAACACATATTCTATCCTGTCGGTCACATTGCTTT		
12582 P	G		S	ATGACGTGGCAGACCCCTTTCTAATACAATTTCTTGGY		
12582 P	T		S	CGCGCCGAGGACCTTTCTAATACAATTTCTTGGY		
12582 T	G		S	CTCTCCAAGAAATTGTATTAGAAAGGGAAGCAATGTGACCGACAGGATAGAATATGTGTTATGAGTCATGTATGTT		
12582 T	T		S	CTCTCCAAGAAATTGTATTAGAAAGGTAAGCAATGTGACCGACAGGATAGAATATGTGTTATGAGTCATGTATGTT		
				ACTTCTTGTGTCCATTATTCAAGAAGATACCAGCCTCTCCAAGAAATTGTATTAGAAAGG[GT]AAGCAATGTGACCGACAGGATAGAATATGTGTTATGAGTC		
12582 IS	[GT]			ATGTATGTTGATTTTATATC	ctg16105	5
12589 I			A	CCCAAATTATAGGGCCTCTCCTCAGAGCTTTCTGGT		
12589 P	C		A	ATGACGTGGCAGACCTTTGTGCAAGCCCGY		
12589 P	A		A	CGCGCCGAGGATTTGTGCAAGCCCGY		
12589 T	C		A	AAATCGGGCTTGCACAAAGCCAGAAAGCTCTGAGGAGAGGCCCTATAATTTGGGCT		
12589 T	A		A	AAATCGGGCTTGCACAAATCCAGAAAGCTCTGAGGAGAGGCCCTATAATTTGGGCT		

Do not duplicate

FIGURE 129E

				TTTAAGATTGACCTTTCTCCTGAAGCCCAAATTATAGGGCCTCTCCTCAGAGCTTTCTGG[CA]TTTGTGCAAGCCCGATTTCCCAAGGAAGGTCCTTCATTGG		
12589	IS	[CA]		CCTCTGAGAGAGGCAGTATC	ctg13934	8
12592	I		A	GGATTTTCAGATTCATTCCTAGAGGCTACGAGTCCCCAT		
12592	P	A	A	CGCGCCGAGGATTCTCTAGGCTTCATGATGY		
12592	P	G	A	ATGACGTGGCAGACGTTCTCTAGGCTTCATGATGY		
12592	T	A	A	AAAGCATCATGAAGCCTAGAGAATTGGGGACTCGTAGCCTCTAGGAATGAATCTGAAAATCCCA		
12592	T	G	A	AAAGCATCATGAAGCCTAGAGAACTGGGGACTCGTAGCCTCTAGGAATGAATCTGAAAATCCCA		
				ATTCCATGACCCTAACACTCTGGGATTTTCAGATTCATTCCTAGAGGCTACGAGTCCCCA[AG]TTCTCTAGGCTTCATGATGCTTTTCTTCGATGAGGCTAGG		
12592	IS	[AG]		ATTTGAGGATCGCTAAGGCA	ctg15665	20
12618	I		S	TCCCTTCAGCTGTAGAACCCATAATAATGTCCCTCATCCT		
12618	P	T	S	CGCGCCGAGGATGCAGCCACTTTATAGACY		
12618	P	C	S	ATGACGTGGCAGACGTGCAGCCACTTTATAGACY		
12618	T	T	S	ATCTGTCTATAAAGTGGCTGCATGGATGAGGGACATTATTATGGGTTCTACAGCTGAAGGGAAC		
12618	T	C	S	ATCTGTCTATAAAGTGGCTGCACGGATGAGGGACATTATTATGGGTTCTACAGCTGAAGGGAAC		
				CTCCCTTATGTGAGAGTGAGCGTAGGCAGAGCCTAGCAATCTGTCTATAAAGTGGCTGCA[TC]GGATGAGGGACATTATTATGGGTTCTACAGCTGAAGGG		
12618	IS	[TC]		AACTGGGTTCCAAGCCCAACTC		
12624	I		S	AGGCATGAGAAACTTGAGATAAGAGTGAATTCTGAAACGT		
12624	P	C	S	ATGACGTGGCAGACGAGAACTTCTCTTGGTAAATATGAY		
12624	P	T	S	CGCGCCGAGGAAGAACTTCTCTTGGTAAATATGAY		
12624	T	C	S	TTCATCATATTTACCAAGAGAAGTTCTCGTTTCAGAATTCACTCTTATCTCAAGTTTCTCATGCCTAA		
12624	T	T	S	TTCATCATATTTACCAAGAGAAGTTCTTCGTTTCAGAATTCACTCTTATCTCAAGTTTCTCATGCCTAA		
				TAAAGAAAAATTTAAAAAGAAAAAAAATAATATTTCATCATATTTACCAAGAGAAGTTCT[CT]CGTTTCAGAATTCACTCTTATCTCAAGTTTCTCATGCCTAAAA		
12624	IS	[CT]		CTTCACTTAGAGACAAA		
12634	I		S	GTTCAGACCCACTGTTTTATAGACATGGCCGTCACTCA		
12634	P	A	S	CGCGCCGAGGTGCAAGCTTAGCCTCAY		
12634	P	G	S	ATGACGTGGCAGACCGCAAGCTTAGCCTCY		
12634	T	A	S	ACAATGAGGCTAAGCTTGCAGAGTGACGGCCATGTCTATAAAACAGTGGGTCTGAACTG		
12634	T	G	S	ACAATGAGGCTAAGCTTGCGGAGTGACGGCCATGTCTATAAAACAGTGGGTCTGAACTG		
				CCTGCAAAGACGATGCTATTGTGCCCATTTTACAGAGGAGTACAATGAGGCTAAGCTTGC[AG]GAGTGACGGCCATGTCTATAAAACAGTGGGTCTGAACTG		
12634	IS	[AG]		CAACTCAGGTCAGCCTGGTTC	ctg_na	NA
12639	I		A	CCCACAGAGGTGTACACATGGGGAAACTGAGC		
12639	P	G	A	ATGACGTGGCAGACGCTCAGTGACCTGTCCY		
12639	P	T	A	CGCGCCGAGGTCTCAGTGACCTGTCCY		
12639	T	G	A	ACTTGGACAGGTCACTGAGCCTCAGTTTCCCCATGTGTACACCTCTGTGGGCT		
12639	T	T	A	ACTTGGACAGGTCACTGAGACTCAGTTTCCCCATGTGTACACCTCTGTGGGCT		
				CCCTTCTGAGCCTCATCTCATTGCCTCAGCCCACAGAGGTGTACACATGGGGAAACTGAG[GT]CTCAGTGACCTGTCCAAGTCCCCACAGCCAGGATGGCA		
12639	IS	[GT]		GGGCAGGGACTTGAAGTCAGGA	ctg_na	NA
12640	I		A	ACCCTTTTCTTCCATAGTGCTGAGGTCCTGGGT		
12640	P	G	A	ATGACGTGGCAGACGGAACTGGTTCCTGACTY		
12640	P	A	A	CGCGCCGAGGAGAACTGGTTCCTGACTY		
12640	T	G	A	CAGCAGTCAGGAACCAGTTCCCCCAGGACCTCAGCACTATGGAAGAAAAGGGTCA		
12640	T	A	A	CAGCAGTCAGGAACCAGTTCTCCCAGGACCTCAGCACTATGGAAGAAAAGGGTCA		
				AGCTAGGGCCCTAGATATACCTGGCTTGACCCTTTTCTTCCATAGTGCTGAGGTCCTGGG[GA]GAACTGGTTCCTGACTGCTGGAGTGCCTGCAACCAGGT		
12640	IS	[GA]		CACCATGGATGCCTGACTGTCT	ctg25114	1
12649	I		S	GAACTTAGATGCCATAGACACTATATTGCAGAAAGGTTGTGGAAAAGAT		
12649	P	C	S	ATGACGTGGCAGACGGATAGAAATGAGTCACAACTY		
12649	P	T	S	CGCGCCGAGGAGATAGAAATGAGTCACAACTTATY		
12649	T	C	S	GGAAATAAGTTGTGACTCATTTCTATCCTCTTTTCCACAACCTTTCTGCAATATAGTGTCTATGGCATCTAAGTTCTC		
12649	T	T	S	GGAAATAAGTTGTGACTCATTTCTATCTTCTTTTCCACAACCTTTCTGCAATATAGTGTCTATGGCATCTAAGTTCTC		
				GCTGCTCACCACATTGCATTGCAATTGATACCAGGAAATAAGTTGTGACTCATTTCTATC[CT]TCTTTTCCACAACCTTTCTGCAATATAGTGTCTATGGCATC		
12649	IS	[CT]		TAAGTTCTCCCTGGGACAA	ctg53	14
12650	I		A	GGTAAGTTCCTTTACTTTTCTTCAATTCTGCTGACATTTAGCCCCATTTAT		
12650	P	A	A	CGCGCCGAGGATCAAGAGGATATCTTCCTAAACY		
12650	P	G	A	ATGACGTGGCAGACGTCAAGAGGATATCTTCCTAAACY		
12650	T	A	A	GGAAGTTTAGGAAGATATCCTCTTGATTAAATGGGGCTAAATGTCAGCAGAATTGAAGAAAAGTAAAGGAACTTACCAA		
12650	T	G	A	GGAAGTTTAGGAAGATATCCTCTTGACTAAATGGGGCTAAATGTCAGCAGAATTGAAGAAAAGTAAAGGAACTTACCAA		
				ATCAAGTATTGGTAAGTTCCTTTACTTTTCTTCAATTCTGCTGACATTTAGCCCCATTTA[AG]TCAAGAGGATATCTTCCTAAACTTCCCAGACTTCTTCGCTG		
12650	IS	[AG]		CAGCACAGCAGAAGCTTAA	ctg53	14
12652	I		S	TTTTATTGCCATGCAATTTTGAGGAAGGGGCT		
12652	P	T	S	CGCGCCGAGGATCAGGTGTTAACTCTTAAAGGY		
12652	P	C	S	ATGACGTGGCAGACGTCAGGTGTTAACTCTTAAAGGY		
12652	T	T	S	TGAGCCTTTAAGAGTTAACACCTGATGCCCCTTCCTCAAAATTGCATGGCAATAAAACA		
12652	T	C	S	TGAGCCTTTAAGAGTTAACACCTGACGCCCCTTCCTCAAAATTGCATGGCAATAAAACA		
				TAGCCCCTTTTCCATGGCACTTTTTCAGCAGCAAATGAGCCTTTAAGAGTTAACACCTGA[TC]GCCCCTTCCTCAAAATTGCATGGCAATAAAACAAAATGAA		
12652	IS	[TC]		ATAAAAAGGATTATCTATTA	ctg16861	13
12657	I		S	CCAGGAGCTGGGCCGCAGGTTA		
12657	P	A	S	CGCGCCGAGGTGCCCTGACAGCAAY		
12657	P	G	S	ATGACGTGGCAGACCGCCCTGACAGCAY		
12657	T	A	S	ATGTTTGCTGTCAGGGCAAACCTGCGGCCCAGCTCCTGGGG		
12657	T	G	S	ATGTTTGCTGTCAGGGCGAACCTGCGGCCCAGCTCCTGGGG		
				CCGGTCACGGTCAGGCCGCACACTACGCAAGAACTTCTTAAAGATGTTTGCTGTCAGGGC[AG]AACCTGCGGCCCAGCTCCTGGGGCTGGCCTTTCTCTC		
12657	IS	[AG]		CTTTGGGTTCACGTGCCCCCCCA	ctg17036	17
12659	I		A	CTAGCACCTGGCACTTGCTACATACCCATAAAACACATAA		
12659	P	C	A	ATGACGTGGCAGACCTGAATATCACTGACCACCY		
12659	P	T	A	CGCGCCGAGGTTGAATATCACTGACCACCY		
12659	T	C	A	CTGGGGTGGTCAGTGATATTCAGTATGTGTTTTATGGGTATGTAGCAAGTGCCAGGTGCTAGCG		
12659	T	T	A	CTGGGGTGGTCAGTGATATTCAATATGTGTTTTATGGGTATGTAGCAAGTGCCAGGTGCTAGCG		
				GTATGTCACCCCAGAACCTCGCTAGCACCTGGCACTTGCTACATACCCATAAAACACATA[CT]TGAATATCACTGACCACCCCAGATCACCCTCCAGGCTGC		
12659	IS	[CT]		TTGCTACCCTCAGACGGTAAC		
12660	I		A	TCCTGTCTCTCAAGAAATTTATCTCTGAGTCAGTGACTTTTGCATCTT		
12660	P	A	A	CGCGCCGAGGAAGTGTCACCACAGAAAGY		
12660	P	G	A	ATGACGTGGCAGACGAGTGTCACCACAGAAAGY		
12660	T	A	A	AGCCCTTTCTGTGGTGACACTTAGATGCAAAAGTCACTGACTCAGAGATAAATTTCTTGAGAGACAGGAGT		
12660	T	G	A	AGCCCTTTCTGTGGTGACACTCAGATGCAAAAGTCACTGACTCAGAGATAAATTTCTTGAGAGACAGGAGT		
				AAGCAATGAATACTCCTGTCTCTCAAGAAATTTATCTCTGAGTCAGTGACTTTTGCATCT[AG]AGTGTCACCACAGAAAGGGCTCCAGGAGGGAGGACTAGA		
12660	IS	[AG]		GAGAGAAATGATCGTTGATGT	ctg16306	4
12661	I		A	GCCCTTACTTAGGGTGATAGAAATTCTTTTTCTTTTTGCTCCTTTGTGA		
12661	P	T	A	CGCGCCGAGGTCACATTCTTCCATCGGTY		
12661	P	C	A	ATGACGTGGCAGACCCACATTCTTCCATCGGY		
12661	T	T	A	GCTGACCGATGGAAGAATGTGACACAAGGAGCAAAAAGAAAAAGAATTTCTATCACCCTAAGTAAGGGCTT		
12661	T	C	A	GCTGACCGATGGAAGAATGTGGCACAAAGGAGCAAAAAGAAAAAGAATTTCTATCACCCTAAGTAAGGGCTT		
				TCTTCAAGGGAAGCCCTTACTTAGGGTGATAGAAATTCTTTTTCTTTTTGCTCCTTTGTG[TC]CACATTCTTCCATCGGTCAGCAGGCAACTGACAGGTGTAC		
12661	IS	[TC]		CCCTCCCTGAGCCCCATTCA	ctg19247	7
12668	I		A	CCCCGGCACAAAGGTAAGCTAGCCTCCA		
12668	P	C	A	ATGACGTGGCAGACCGAGGCTGGAGTGAAY		
12668	P	T	A	CGCGCCGAGGTGAGGCTGGAGTGAATY		
12668	T	C	A	CCCCATTCACTCCAGCCTCGGGAGGCTAGCTTACCTTTGTGCCCGGGGAT		
12668	T	T	A	CCCCATTCACTCCAGCCTCAGGAGGCTAGCTTACCTTTGTGCCGGGGAT		

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FIGURE 129E

				CCACGTGGATGAGTTCATGTCCTTTGTCCCCATCCCCGGCACAAAGGTAAGCTAGCCTCC[CT]GAGGCTGGAGTGAATGGGGTAGCAGCAAACCAATATAT			
12668	IS	[CT]		TACCCGCCCCTGCCAGCAGAGG	ctg14493	3	
12670	I		S	TCTTTCCAGTGCCACAGGTGCATAACCTATTTCTCTCTAT			
12670	P	C	S	ATGACGTGGCAGACGAGCATTACCACCAACACY			
12670	P	T	S	CGCGCCGAGGAAGCATTACCACCAACACY			
12670	T	C	S	TATTGTGTTGGTGGTAATGCTCTAGAGAGAAATAGGTTATGCACCTGTGGCACTGGAAAGAGG			
12670	T	T	S	TATTGTGTTGGTGGTAATGCTTTAGAGAGAAATAGGTTATGCACCTGTGGCACTGGAAAGAGG			
				CACAGCTCAAGTGTTCAATAGTCACATAAGGCTAGTGGCTATTGTGTTGGTGGTAATGCT[CT]TAGAGAGAAATAGGTTATGCACCTGTGGCACTGGAAAGA			
12670	IS	[CT]		GGTTCTTTCATTTTCTTATGG	ctg15972	16	
12722	I		S	ACCATTTGTTGATCTCCTGCCTATATCTAATACATAAGCACTCCAAGAAACT			
12722	P	C	S	ATGACGTGGCAGACGTATTCCCTCTATAAGCAATCCY			
12722	P	G	S	CGCGCCGAGGCTATTCCCTCTATAAGCAATCCY			
12722	T	C	S	AAATGGATTGCTTATAGAGGGAATACGTTTCTTGGAGTGCTTATGTATTAGATATAGGCAGGAGATCAACAAATGGTTA			
12722	T	G	S	AAATGGATTGCTTATAGAGGGAATAGGTTTCTTGGAGTGCTTATGTATTAGATATAGGCAGGAGATCAACAAATGGTTA			
				TCTCGTTTTTTGTTTTGTTTTGTTTTGTTTTAAATAAATGGATTGCTTATAGAGGGAATA[CG]GTTTCTTGGAGTGCTTATGTATTAGATATAGGCAGGAGATC			
12722	IS	[CG]		AACAAATGGTTATAGTGAA	ctg15972	16	
12724	I		A	CAGCCCTCCAGACCCCTTTGTGTAGAGCA			
12724	P	T	A	CGCGCCGAGGTGTGTGCCCAGGGY			
12724	P	C	A	ATGACGTGGCAGACCGTGTGCCCAGGGY			
12724	T	T	A	GAGGCCCTGGGCACACAGCTCTACACAAAGGGGTCTGGAGGGCTGGG			
12724	T	C	A	GAGGCCCTGGGCACACGGCTCTACACAAAGGGGTCTGGAGGGCTGGG			
				CAGAGAGCAGGGCGTGGGACAGCGCTCCCGCCCAGCCCTCCAGACCCCTTTGTGTAGAGC[TC]GTGTGCCCAGGGCCTCGGAGCTGTACAAAGCTTGGT			
12724	IS	[TC]		TCAAAATTTGGCTTGGATACTTAG	ctg15907	6	
12737	I		S	GTATCTGCCTTCAGGACTCCTTTGTTTCTCTGGGTTC			
12737	P	C	S	ATGACGTGGCAGACGGACCATTTTCTTAATTTTAAAATCTTY			
12737	P	A	S	CGCGCCGAGGTGACCATTTTCTTAATTTTAAAATCTTAAY			
12737	T	C	S	TAAATTAAGATTTTAAAATTAAGAAAATGGTCCAACCCAGAGAAACAAAGGAGTCCTGAAGGCAGATACTA			
12737	T	A	S	TAAATTAAGATTTTAAAATTAAGAAAATGGTCAAACCCAGAGAAACAAAGGAGTCCTGAAGGCAGATACTA			
				TACAGGGATAGTAGGAGAATAAGAGAAATAAATTAAGATTTTAAAATTAAGAAAATGGTC[CA]AACCCAGAGAAACAAAGGAGTCCTGAAGGCAGATACTACC			
12737	IS	[CA]		CTCAGGGCATCTGTTGATGC	ctg15907	6	
12743	I		S	GGATGTCTAATAGCATCTCTGACCTCAGCCCAGTAGATT			
12743	P	T	S	CGCGCCGAGGACCAGTAGCATTCCCCY			
12743	P	C	S	ATGACGTGGCAGACGCCAGTAGCATTCCCY			
12743	T	T	S	ACTGGGGGAATGCTACTGGTATCTACTGGGCTGAGGTCAGAGATGCTATTAGACATCCAA			
12743	T	C	S	ACTGGGGGAATGCTACTGGCATCTACTGGGCTGAGGTCAGAGATGCTATTAGACATCCAA			
				GCAATGTCCAGGGACATTTTTCATTGTCACAAGTTGCGGGGACTGGGGGAATGCTACTGG[TC]ATCTACTGGGCTGAGGTCAGAGATGCTATTAGACATCC			
12743	IS	[TC]		AATAATGCACAAATCAGCCTCA	ctg15907	6	
12760	I		A	CTCTAAGTAGGCTGTGCTGGCTTGGCTGGT			
12760	P	A	A	CGCGCCGAGGAACTTCACCTTGAGAGGTY			
12760	P	G	A	ATGACGTGGCAGACGACTTCACCTTGAGAGGTY			
12760	T	A	A	ACCGACCTCTCAAGGTGAAGTTCCAGCCAAGCCAGCACAGCCTACTTAGAGCA			
12760	T	G	A	ACCGACCTCTCAAGGTGAAGTCCCAGCCAAGCCAGCACAGCCTACTTAGAGCA			
				AGGGGAAAGGTCTTAGATAGCAGATTGGTTGCTCTAAGTAGGCTGTGCTGGCTTGGCTGG[AG]ACTTCACCTTGAGAGGTCGGTGAACATCACAGCTGCAT			
12760	IS	[AG]		AGGGAATGCAGGGACAGGCGGA	ctg15907	6	
12765	I		A	GCTTCCACTTGTTTCTGCAAGCAGAAAGCCATCT			
12765	P	G	A	ATGACGTGGCAGACGTTATCTACAGTGTGGCTAATY			
12765	P	A	A	CGCGCCGAGGATTATCTACAGTGTGGCTAATCY			
12765	T	G	A	AAGTGATTAGCCACACTGTAGATAACGATGGCTTTCTGCTTGCAGAAACAAGTGGAAGCCG			
12765	T	A	A	AAGTGATTAGCCACACTGTAGATAATGATGGCTTTCTGCTTGCAGAAACAAGTGGAAGCCG			
				ACCATCTCCATGGTAACACAGACACCGGCTTCCACTTGTTTCTGCAAGCAGAAAGCCATC[GA]TTATCTACAGTGTGGCTAATCACTTCCATAAATTCGATCA			
12765	IS	[GA]		AGATCTTGTACAAGACCCTT	ctg15907	6	
12786	I		S	GGGCATAAGAATAGCTTCATGGCTCCAAGTCTGATCATTC			
12786	P	C	S	ATGACGTGGCAGACGGTGCATAGGTCAGTATATTGY			
12786	P	A	S	CGCGCCGAGGTGTGCATAGGTCAGTATATTGY			
12786	T	C	S	GTCACAATATACTGACCTATGCACCAATGATCAGACTTGGAGCCATGAAGCTATTCTTATGCCCAA			
12786	T	A	S	GTCACAATATACTGACCTATGCACAAATGATCAGACTTGGAGCCATGAAGCTATTCTTATGCCCAA			
				TTTCTACCACGGGATGAACAGCTTTTAAGGAGATTGGTCACAATATACTGACCTATGCAC[CA]AATGATCAGACTTGGAGCCATGAAGCTATTCTTATGCCCA			
12786	IS	[CA]		AGAAACCTGGTCACATTAGG	ctg13446	1	
12798	I		S	AGCTGATCAGACTGTGGTCTAAATACAATGCAGACCAGATTCT			
12798	P	T	S	CGCGCCGAGGAGAGAATGATGGAGACAGTY			
12798	P	C	S	ATGACGTGGCAGACGGAGAATGATGGAGACAGTY			
12798	T	T	S	CTGAACTGTCTCCATCATTCTCTGAATCTGGTCTGCATTGTATTTAGACCACAGTCTGATCAGCTTT			
12798	T	C	S	CTGAACTGTCTCCATCATTCTCCGAATCTGGTCTGCATTGTATTTAGACCACAGTCTGATCAGCTTT			
				TTAAATTCGTTGCTTATGACTTTGTAAGTAATAAGTTGCTGAACTGTCTCCATCATTCTC[TC]GAATCTGGTCTGCATTGTATTTAGACCACAGTCTGATCAGC			
12798	IS	[TC]		TTTCCTTGGGCTGCAAGGG	ctg13446	1	
12802	I		A	CCCTTAGTAATATACAGAAGATAGGACTCAAGCTTATTTGGGATA			
12802	P	C	A	ATGACGTGGCAGACCCTGATCAATTCTTTCTGATGY			
12802	P	T	A	CGCGCCGAGGTCTGATCAATTCTTTCTGATGTY			
12802	T	C	A	AACAACATCAGAAAGAATTGATCAGGATCCCAAATAAGCTTGAGTCCTATCTTCTGTATATTACTAAGGGCT			
12802	T	T	A	AACAACATCAGAAAGAATTGATCAGAATCCCAAATAAGCTTGAGTCCTATCTTCTGTATATTACTAAGGGCT			
				TGAGAATAAATAAAAGCCCTTAGTAATATACAGAAGATAGGACTCAAGCTTATTTGGGAT[CT]CTGATCAATTCTTTCTGATGTTGTTGAAAATGACAAAGTTG			
12802	IS	[CT]		GGTGGCTACATGGCTTCAG	ctg13414	X	
12813	I		A	GGCTCCTCTACTGGGTTTCTGTCTTTCATTCAATGTAATATTGTTCCT			
12813	P	G	A	ATGACGTGGCAGACGTTTAGCTATTAACAATCAGCTATY			
12813	P	A	A	CGCGCCGAGGATTTAGCTATTAACAATCAGCTATGY			
12813	T	G	A	TGTTCATAGCTGATTGTTAATAGCTAAACGGAACAATATTACATTGAATGAAAGACAGAAACCCAGTAGAGGAGCCCT			
12813	T	A	A	TGTTCATAGCTGATTGTTAATAGCTAAATGGAACAATATTACATTGAATGAAAGACAGAAACCCAGTAGAGGAGCCCT			
				TGATGGGGGCCAGGGCTCCTCTACTGGGTTTCTGTCTTTCATTCAATGTAATATTGTTCC[GA]TTTAGCTATTAACAATCAGCTATGAACAAAGGGTGAAGAA			
12813	IS	[GA]		CACTGACAGTCACAGTAAAG	ctg13414	X	
12857	I		A	CCTTCCTGGCTGCTGCCCAAGGAT			
12857	P	C	A	CGCGCCGAGGCCACCAGGCCAGCY			
12857	P	G	A	ATGACGTGGCAGACGCACCAGGCCAGCY			
12857	T	C	A	CGAGGCTGGCCTGGTGGTCCTTGGGCAGCAGCCAGGAAGGCG			
12857	T	G	A	CGAGGCTGGCCTGGTGCTCCTTGGGCAGCAGCCAGGAAGGCG			
				GGTCAGCCGACCCCGCCCTTGCCACTCCCTCTCATCGCCTTCCTGGCTGCTGCCCAAGGA[CG]CACCAGGCCAGCCTCGGGGCTCTCAACCCCTCTTCCC			
12857	IS	[CG]		ACGTGCCTTGGGGCTCAGCCGTG	ctg13414	X	
12859	I		A	CCAGTGCAGTTCCACAGCCACCAGGAA			
12859	P	C	A	ATGACGTGGCAGACCGGGCTGCGGGY			
12859	P	T	A	CGCGCCGAGGTGGGCTGCGGGY			
12859	T	C	A	ACCCCCCGCAGCCCGTCCTGGTGGCTGTGGAACTGCACTGGGT			
12859	T	T	A	ACCCCCCGCAGCCCATCCTGGTGGCTGTGGAACTGCACTGGGT			
				TCTCCTAAGCTGCCTTCCACCATCTGCCCGCCACCCAGTGCAGTTCCACAGCCACCAGGA[CT]GGGCTGCGGGGGGTGTCCCGACTGGCTCTGGGGTGCT			
12859	IS	[CT]		GGGGAAAGCACTGTGGGGCGGGC	ctg14493	3	KIAA0015
12861	I		S	CTGAAGTGAGGCAGATGCATGAGTGATTGAGAATAATGCTT			
12861	P	T	S	CGCGCCGAGGACCTTGGTGAAGCATTCY			
12861	P	C	S	ATGACGTGGCAGACGCCTTGGTGAAGCATTY			
12861	T	T	S	AATGGAATGCTTCACCAAGGTAGCATTATTCTCAATCACTCATGCATCTGCCTCACTTCAGTA			
12861	T	C	S	AATGGAATGCTTCACCAAGGCAGCATTATTCTCAATCACTCATGCATCTGCCTCACTTCAGTA			

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FIGURE 129E

				GTATCACAGAAGATGGTAGTACCTGAACCTCATGCTTCTAAATGGAATGCTTCACCAAGG[TC]AGCATTATTCTCAATCACTCATGCATCTGCCTCACTTCAG			
12861	IS	[TC]		TACGGAGCAAATATGTATCA	ctg13921	8	
12867	I		A	CCTGGGTTCAAGCAATTCTCCTGCCTCAGGA			
12867	P	T	A	CGCGCCGAGGTGCCTGAGCAGTGGY			
12867	P	C	A	ATGACGTGGCAGACCGCCTGAGCAGTGGY			
12867	T	T	A	GTCCCCACTGCTCAGGCACCTGAGGCAGGAGAATTGCTTGAACCCAGGAG			
12867	T	C	A	GTCCCCACTGCTCAGGCGCCTGAGGCAGGAGAATTGCTTGAACCCAGGAG			
				TGCAATCTCAGCTCACTGCAACCTCTGCCTCCTGGGTTCAAGCAATTCTCCTGCCTCAGG[TC]GCCTGAGCAGTGGGGACCACAGGCGTGCACCACCTCAC			
12867	IS	[TC]		CCAGCTAATTTTGTATTTTTAG	ctg15907	6	
12872	I		A	GACCTGCTACAGTCAGCAGGACCTGCTT			
12872	P	A	A	CGCGCCGAGGACAGTCAGCAGCACCY			
12872	P	G	A	ATGACGTGGCAGACGCAGTCAGCAGCACY			
12872	T	A	A	GGCAGGTGCTGCTGACTGTAGCAGGTCCTGCTGACTGTAGCAGGTCCT			
12872	T	G	A	GGCAGGTGCTGCTGACTGCAGCAGGTCCTGCTGACTGTAGCAGGTCCT			
				GACATTGGCGGTCTCACTGCTAGCCCCTAGAAGGACCTGCTACAGTCAGCAGGACCTGCT[AG]CAGTCAGCAGCACCTGCCAAGAAGATATTCTTACTCCC			
12872	IS	[AG]		CTTTATGGTGAGGACAACTGTG	ctg15907	6	
12878	I		S	CAGCTGCCCACTCCTCTGTGTCCTCTTAGAA			
12878	P	A	S	CGCGCCGAGGTTGTGCTCTGGGTGTY			
12878	P	G	S	ATGACGTGGCAGACCTGTGCTCTGGGTGTY			
12878	T	A	S	ACACACACCCAGAGCACAATCTAAGAGGACACAGAGGAGTGGGCAGCTGGC			
12878	T	G	S	ACACACACCCAGAGCACAGTCTAAGAGGACACAGAGGAGTGGGCAGCTGGC			
				AGTCACCTCCACTCCAGTGAGCTCCTTAATCCAGCAGAGAAGACACACACCCAGAGCACA[AG]TCTAAGAGGACACAGAGGAGTGGGCAGCTGGCTTGGCT			
12878	IS	[AG]		GTTGCACTTGAAGACAGGATCC	ctg15907	6	
12887	I		A	GGATTTCCACCTGAGTTTTGGGGGAACATGAGCT			
12887	P	G	A	ATGACGTGGCAGACGTCCAGCCCTCAGCY			
12887	P	A	A	CGCGCCGAGGATCCAGCCCTCAGCY			
12887	T	G	A	AGCTGCTGAGGGCTGGACGCTCATGTTCCCCCAAAACTCAGGTGGAAATCCTC			
12887	T	A	A	AGCTGCTGAGGGCTGGATGCTCATGTTCCCCCAAAACTCAGGTGGAAATCCTC			
				CTCCTAATGCCACTGCTTTGGGGGTGAGGATTTCCACCTGAGTTTTGGGGGAACATGAGC[GA]TCCAGCCCTCAGCAGCTGTTACTGTGACCCGCAAACCT			
12887	IS	[GA]		GCCGCCCCCCTGCTCTTGCCCA	ctg15907	6	
12888	I		A	TCTCTTGTCCAGAGCAGGTAGCTGGGACCT			
12888	P	G	A	ATGACGTGGCAGACGGGCATCTGCTCAGY			
12888	P	A	A	CGCGCCGAGGAGGCATCTGCTCAGCY			
12888	T	G	A	GAGGGCTGAGCAGATGCCCGGTCCCAGCTACCTGCTCTGGACAAGAGATG			
12888	T	A	A	GAGGGCTGAGCAGATGCCTGGTCCCAGCTACCTGCTCTGGACAAGAGATG			
				CAGGTCACGAGGCTGTCCCTTCTGTGAGCCATCTCTTGTCCAGAGCAGGTAGCTGGGACC[GA]GGCATCTGCTCAGCCCTCCGGGCTCTCCGTGGTGGGC			
12888	IS	[GA]		AGTCCGCAGCCTGTCCTCCAGGG	ctg15907	6	
12891	I		S	CCCAGGCCCTACCCCCAGAACTGGT			
12891	P	T	S	CGCGCCGAGGATCTTGCTGGACCAGGY			
12891	P	C	S	ATGACGTGGCAGACGTCTTGCTGGACCAGGY			
12891	T	T	S	AGATCCTGGTCCAGCAAGATCCAGTTCTGGGGGTAGGGCCTGGGCA			
12891	T	C	S	AGATCCTGGTCCAGCAAGACCCAGTTCTGGGGGTAGGGCCTGGGCA			
				TGTAGGACTCACTTGAGGAGCCTCTAAAAATCCTCATGTCCAGATCCTGGTCCAGCAAGA[TC]CCAGTTCTGGGGGTAGGGCCTGGGCATCAGCATTTTTTA			
12891	IS	[TC]		TCTATAGCTATGTAAAGAACG	ctg14747	2	
12894	I		S	CTGAACCCCCCACAGCAGGGGCT			
12894	P	C	S	ATGACGTGGCAGACGGCCAGTCCTGCTY			
12894	P	T	S	CGCGCCGAGGAGCCAGTCCTGCTGY			
12894	T	C	S	CCTGCAGCAGGACTGGCCGCCCCTGCTGTGGGGGGTTCAGAA			
12894	T	T	S	CCTGCAGCAGGACTGGCTGCCCCTGCTGTGGGGGGTTCAGAA			
				TGACCTTGGGCCAGAAGGTCAAACTCCGAAGACTGAAACTCTGCCTGCAGCAGGACTGGC[CT]GCCCCTGCTGTGGGGGGTTCAGAAAATAAAATGCCGC			
12894	IS	[CT]		GCAGCCCTTGCCAGGGAAGTGTC	ctg17042	11	
12895	I		S	CCAGACAGCCCTGTTAACACCTGGGCAGA			
12895	P	A	S	CGCGCCGAGGTTCTGTGAAAGGAGAAATGTY			
12895	P	G	S	ATGACGTGGCAGACCTCTGTGAAAGGAGAAATGTY			
12895	T	A	S	CAAGACATTTCTCCTTTCACAGAACTGCCCAGGTGTTAACAGGGCTGTCTGGAC			
12895	T	G	S	CAAGACATTTCTCCTTTCACAGAGCTGCCCAGGTGTTAACAGGGCTGTCTGGAC			
				TGTGGTGGTTTATATTCATGTTTGTGGAAAAATCTTGCAAGACATTTCTCCTTTCACAGA[AG]CTGCCCAGGTGTTAACAGGGCTGTCTGGACGGGGCTCTT			
12895	IS	[AG]		TTGCTTCCCCCTCAATCTGGG	ctg16920	19	
12898	I		A	GGGAGGCTGAGGCGGGTGGATCAA			
12898	P	C	A	ATGACGTGGCAGACCGAGGTCAAGAGATCGAY			
12898	P	T	A	CGCGCCGAGGTGAGGTCAAGAGATCGAGY			
12898	T	C	A	TGGTCTCGATCTCTTGACCTCGTGATCCACCCGCCTCAGCCTCCCAA			
12898	T	T	A	TGGTCTCGATCTCTTGACCTCATGATCCACCCGCCTCAGCCTCCCAA			
				TGGGCGCAGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCTGAGGCGGGTGGATCA[CT]GAGGTCAAGAGATCGAGACCATCCTGGTCAACATGGT			
12898	IS	[CT]		GAAACCCGTCTCTACTAAAAAA	ctg15907	6	MULTIPLE SHORT GENE NAMES
12899	I		A	TGGTCAACATGGTGAAACCCCGTCTCTACTAAAAAAAAATACAAAGAAAAAAAC			
12899	P	A	A	CGCGCCGAGGATTAGCTGGGCGTGGY			
12899	P	T	A	ATGACGTGGCAGACTTTAGCTGGGCGTGGY			
12899	T	A	A	GCCACCACGCCCAGCTAATTTTTTTTCTTTGTATTTTTTTTTAGTAGAGACGGGGTTTCACCATGTTGACCAGG			
12899	T	T	A	GCCACCACGCCCAGCTAAATTTTTTTCTTTGTATTTTTTTTTAGTAGAGACGGGGTTTCACCATGTTGACCAGG			
				ACCATCCTGGTCAACATGGTGAAACCCCGTCTCTACTAAAAAAAAATACAAAGAAAAAAA[AT]TTAGCTGGGCGTGGTGGCGCATGCCTGTAGTCCCAGCTG			
12899	IS	[AT]		CTGGGGAGGCTGAGGCAGGAG	ctg17036	17	
12902	I		S	CCCACGCACAGTGCAGAGGACCCT			
12902	P	C	S	ATGACGTGGCAGACGTAGGTGGCCACAGAY			
12902	P	T	S	CGCGCCGAGGATAGGTGGCCACAGAGY			
12902	T	C	S	AGACCTCTGTGGCCACCTACGGGTCCTCTGCACTGTGCGTGGGGC			
12902	T	T	S	AGACCTCTGTGGCCACCTATGGGTCCTCTGCACTGTGCGTGGGGC			
				ACCTTTGCAGGAGGACAAGCCATGCCGGCCTCAACTAGCGGAGACCTCTGTGGCCACCTA[CT]GGGTCCTCTGCACTGTGCGTGGGGCAGTGGGGACGG			
12902	IS	[CT]		AGCTTCCTGCCCCCCGGGGCCTGC	ctg17036	17	
12905	I		A	CCCGGCACCAGTCTCAAGGCCATA			
12905	P	C	A	ATGACGTGGCAGACCGGCTCCGACAGCY			
12905	P	T	A	CGCGCCGAGGTGGCTCCGACAGCY			
12905	T	C	A	TGACGCTGTCGGAGCCGATGGCCTTGAGACTGGTGCCGGGCT			
12905	T	T	A	TGACGCTGTCGGAGCCAATGGCCTTGAGACTGGTGCCGGGCT			
				CTGACGAGGTCTGCCGAGGACGCGTTTCTCTCTGCAGCCCGGCACCAGTCTCAAGGCCAT[CT]GGCTCCGACAGCGTCACCTCCTGGGACCTTCCCTTCA			
12905	IS	[CT]		TGTATGGTCCCAGCGGCATGCGG	ctg15907	6	
12908	I		S	CCTGGCCGGTCTCAGAGCGAGACAA			
12908	P	A	S	CGCGCCGAGGTGCTGCTCACCAGCY			
12908	P	G	S	ATGACGTGGCAGACCGCTGCTCACCAGY			
12908	T	A	S	GAGGGCTGGTGAGCAGCATGTCTCGCTCTGAGACCGGCCAGGCT			
12908	T	G	S	GAGGGCTGGTGAGCAGCGTGTCTCGCTCTGAGACCGGCCAGGCT			
				AGGCGCAGGGCCGATTGTCCACTTCTGGCCCCTGAGGTACCGGGAGGGCTGGTGAGCAGC[AG]TGTCTCGCTCTGAGACCGGCCAGGCTGCTGGGGCA			
12908	IS	[AG]		GGCATCTGATGTACAGTAGTTCCCA	ctg13740	5	
12912	I		A	GGCTGGGCCAGCAGCCGTGA			
12912	P	C	A	ATGACGTGGCAGACCGCAGTGGGATTCCY			
12912	P	T	A	CGCGCCGAGGTGCAGTGGGATTCCCY			
12912	T	C	A	ACACGGGAATCCCACTGCGCACGGCTGCTGGCCCAGCCCC			
12912	T	T	A	ACACGGGAATCCCACTGCACACGGCTGCTGGCCCAGCCCC			

SEQUENCE LISTING

FIGURE 129E

				TAGAGGAACCCCTTCCACAGGGCACCCCTTCCACAGGGAGGGGCTGGGCCAGCAGCCGTG[CT]GCAGTGGGATTCCCGTGTCTGGGGGCTTCAGTCTTC		
12912	IS	[CT]		TCAGGGGACACACGCCCAAGAGGC	ctg15330	9
12920	I		S	CAGATGCCTTTGGCCTGGCCCCAT		
12920	P	C	S	ATGACGTGGCAGACGGCTCCCCCTCACY		
12920	P	T	S	CGCGCCGAGGAGCTCCCCCTCACAY		
12920	T	C	S	GGAGTGTGAGGGGGAGCCTGGGGCCAGGCCAAAGGCATCTGCA		
12920	T	T	S	GGAGTGTGAGGGGGAGCTTGGGGCCAGGCCAAAGGCATCTGCA		
				GGGTGGTCCTGGCCTGGAGGAGCTGATGGGTATGTGGTCTTGGGGAGTGTGAGGGGGAGC[CT]TGGGGCCAGGCCAAAGGCATCTGCAGAAAGAAGACC		
12920	IS	[CT]		TACTGCCTTGGGACTCAGCCCGGC	ctg16170	4
12921	I		S	GCTTCATAAGTTGCCTGTTCACCCTTTGAACTTGT		
12921	P	C	S	ATGACGTGGCAGACGCCTCTTATAAAGACGCCY		
12921	P	T	S	CGCGCCGAGGACCTCTTATAAAGACGCCCY		
12921	T	C	S	ACAAGGGCGTCTTTATAAGAGGCCAAGTTCAAAGGGTGAACAGGCAACTTATGAAGCAA		
12921	T	T	S	ACAAGGGCGTCTTTATAAGAGGTCAAGTTCAAAGGGTGAACAGGCAACTTATGAAGCAA		
				AGTAGCAGAAGGTTCATTTCTCTCACTGACAGACATAAACAAGGGCGTCTTTATAAGAGG[CT]CAAGTTCAAAGGGTGAACAGGCAACTTATGAAGCAAACTT		
12921	IS	[CT]		TAAAAGCCTGAAACAGGGTT		
12923	I		A	GGGGAGTCGGCACAGGGCGCT		
12923	P	G	A	ATGACGTGGCAGACGCCAACATTGCTGAGGY		
12923	P	A	A	CGCGCCGAGGACCAACATTGCTGAGGY		
12923	T	G	A	TTGGCCTCAGCAATGTTGGCGCGCCCTGTGCCGACTCCCCTG		
12923	T	A	A	TTGGCCTCAGCAATGTTGGTGCGCCCTGTGCCGACTCCCCTG		
				CCTCACCACTAACCAAAGGAACAGGGGAGCCTAAGGCACAGGGGAGTCGGCACAGGGCGC[GA]CCAACATTGCTGAGGCCAAGCCGCTGTGCAGCCAGC		
12923	IS	[GA]		GGGCAGACGCACCCAGGGCCGCAG	ctg53	14
12936	I		A	CCGAGTTGCCAGGAGCTGAGGTCTGCT		
12936	P	G	A	ATGACGTGGCAGACGGGAGGAGAGTTGTGAGY		
12936	P	A	A	CGCGCCGAGGAGGAGGAGAGTTGTGAGY		
12936	T	G	A	TTCACTCACAACTCTCCTCCCGCAGACCTCAGCTCCTGGCAACTCGGGC		
12936	T	A	A	TTCACTCACAACTCTCCTCCTGCAGACCTCAGCTCCTGGCAACTCGGGC		
				TATTAAGAATGTCCCGCTGTCCAGGGCCACAGGCCCGAGTTGCCAGGAGCTGAGGTCTGC[GA]GGAGGAGAGTTGTGAGTGAAGATGAGGGAAAGTTGAA		
12936	IS	[GA]		TTTGGCTCTTCTGGGCACAAATA	ctg18433	19
12938	I		A	GGGACTGATAACAGCAGCCCCTACCTCATGAT		
12938	P	C	A	CGCGCCGAGGCAGTGTTGGGAGACTTGY		
12938	P	G	A	ATGACGTGGCAGACGAGTGTTGGGAGACTTGY		
12938	T	C	A	CATCCAAGTCTCCCAACACTGTCATGAGGTAGGGGCTGCTGTTATCAGTCCCGT		
12938	T	G	A	CATCCAAGTCTCCCAACACTCTCATGAGGTAGGGGCTGCTGTTATCAGTCCCGT		
				CTGAACCACAGTTTCCTCCTCTGTAAGACGGGACTGATAACAGCAGCCCCTACCTCATGA[CG]AGTGTTGGGAGACTTGGATGAATGGATGCTTGTGAAGC		
12938	IS	[CG]		ACTTAGTGCCGGGGCCAGCTGG	ctg18466	16
12939	I		S	CGGGACCTTGTGCCTCCTTCCCCT		
12939	P	T	S	CGCGCCGAGGAACGCCGCCTGCY		
12939	P	C	S	ATGACGTGGCAGACGACGCCGCCTGCY		
12939	T	T	S	GTGAGCAGGCGGCGTTGGGGAAGGAGGCACAAGGTCCCGGG		
12939	T	C	S	GTGAGCAGGCGGCGTCGGGGAAGGAGGCACAAGGTCCCGGG		
				GCTGGGTGCAGGGCGAGGACATCCTGAGCCTGCCCGAGGGCACCGGTGAGCAGGCGGCGT[TC]GGGGAAGGAGGCACAAGGTCCCGGGAACTGCTGCG		
12939	IS	[TC]		GGGCTAGGAGGGCAGAGTTAAGGAC	ctg22fin6	22
12954	I		A	CCCCTTTTTCTTAGAGAACACGAACTTGCCCCAT		
12954	P	G	A	ATGACGTGGCAGACGTCCTTATCTAGTGCTGATTCY		
12954	P	C	A	CGCGCCGAGGCTCCTTATCTAGTGCTGATTCY		
12954	T	G	A	TTTAGAATCAGCACTAGATAAGGACTGGGGCAAGTTCGTGTTCTCTAAGAAAAAGGGGCC		
12954	T	C	A	TTTAGAATCAGCACTAGATAAGGAGTGGGGCAAGTTCGTGTTCTCTAAGAAAAAGGGGCC		
				TGTCTCTAGTCCCTCTTATCCCCTAGGCCCCTTTTTCTTAGAGAACACGAACTTGCCCCA[GC]TCCTTATCTAGTGCTGATTCTAAAACTAACTTGTCAGGGA		
12954	IS	[GC]		AGAGGTATTTGTTTATTGTT	ctg22fin4	22
12972	I		A	TGTAGAACACACTCTGGAATTCTCTATTCCCCTGGATGGT		
12972	P	A	A	CGCGCCGAGGAGACAATCATAGATGATGGGY		
12972	P	G	A	ATGACGTGGCAGACGGACAATCATAGATGATGGGY		
12972	T	A	A	TTCCCCCATCATCTATGATTGTCTCCATCCAGGGGAATAGAGAATTCCAGAGTGTGTTCTACAAC		
12972	T	G	A	TTCCCCCATCATCTATGATTGTCCCCATCCAGGGGAATAGAGAATTCCAGAGTGTGTTCTACAAC		
				AGGCCAGGCTGCACACCTGGTTGTAGAACACACTCTGGAATTCTCTATTCCCCTGGATGG[AG]GACAATCATAGATGATGGGGGAAGTGACCCGTGGGTAA		
12972	IS	[AG]		AAGTCCAGGCCATCGGGGAGGC	ctg22fin4	22
13001	I		A	TGTTGGGATCTCACCAGGGCAGGGGA		
13001	P	C	A	ATGACGTGGCAGACCGGGTGGGAATGGAY		
13001	P	T	A	CGCGCCGAGGTGGGTGGGAATGGAGY		
13001	T	C	A	CTGCCTCCATTCCCACCCGCCCCTGCCCTGGTGAGATCCCAACAAT		
13001	T	T	A	CTGCCTCCATTCCCACCCACCCCTGCCCTGGTGAGATCCCAACAAT		
				CAGGCCCAGGGGAGGCTGGAGCACCTCCATTCCATTGTTGGGATCTCACCAGGGCAGGGG[CT]GGGTGGGAATGGAGGCAGCTGGCAGGGGGGATGGG		
13001	IS	[CT]		GAGGGAGGCCAGCGGGTGTACCTGG	ctg22fin4	22
13022	I		A	TCTGTAGAAGGTCAGTTGGAATTCAGGGCATTGCTT		
13022	P	A	A	CGCGCCGAGGATTTATTCCTCGTCGGGY		
13022	P	G	A	ATGACGTGGCAGACGTTTATTCCTCGTCGGGY		
13022	T	A	A	GGAGCCCGACGAGGAATAAATAGCAATGCCCTGAATTCCAACTGACCTTCTACAGAAA		
13022	T	G	A	GGAGCCCGACGAGGAATAAACAGCAATGCCCTGAATTCCAACTGACCTTCTACAGAAA		
				TATTTTTGGTTTCTTTCAGCACTTTTCTGTAGAAGGTCAGTTGGAATTCAGGGCATTGCT[AG]TTTATTCCTCGTCGGGCTCCCTTTGACCTTTTTGAGAACA		
13022	IS	[AG]		AGAAGAAAAAGAACAACATC	ctg15508	17
13030	I		S	GGTCCTGCCTCTGCTGCTACCCTGATT		
13030	P	C	S	ATGACGTGGCAGACGAGATCTGAGTTTGTTCTGCY		
13030	P	T	S	CGCGCCGAGGAAGATCTGAGTTTGTTCTGCY		
13030	T	C	S	ACCAGCAGAACAAACTCAGATCTCATCAGGGTAGCAGCAGAGGCAGGACCAG		
13030	T	T	S	ACCAGCAGAACAAACTCAGATCTTATCAGGGTAGCAGCAGAGGCAGGACCAG		
				GGACTCCAGCTCTACGTCCCACATTTTAGAATACCCCACCAGCAGAACAAACTCAGATCT[CT]ATCAGGGTAGCAGCAGAGGCAGGACCAGAAGGCAATCAA		
13030	IS	[CT]		GAGCTTCCAGAAATGCCACAC		ATP1A2
13032	I		A	CAGAGGGGAGACCATTCCTGGGCCTA		
13032	P	T	A	CGCGCCGAGGTCTAGCTCAGGACACCY		
13032	P	C	A	ATGACGTGGCAGACCCTAGCTCAGGACACCY		
13032	T	T	A	CCCTGGTGTCCTGAGCTAGAAGGCCCAGGAATGGTCTCCCCTCTGAC		
13032	T	C	A	CCCTGGTGTCCTGAGCTAGGAGGCCCAGGAATGGTCTCCCCTCTGAC		
				GAGACATAGGAAGTATCTGGTAAGGTTGGAGAGGTCAGAGGGGAGACCATTCCTGGGCCT[TC]CTAGCTCAGGACACCAGGGCATGTGGGTGGCAGACAG		
13032	IS	[TC]		GAGCATCCTCTGCAAGGAGGCTG	ctg15907	6
13060	I		S	CCTGCAGGATCAGCCCCTAGCATTCCTTA		
13060	P	A	S	CGCGCCGAGGTAGGATTCTGCAGAGCAY		
13060	P	G	S	ATGACGTGGCAGACCAGGATTCTGCAGAGCY		
13060	T	A	S	CTCATGCTCTGCAGAATCCTAAAGGAATGCTAGGGGCTGATCCTGCAGGAG		
13060	T	G	S	CTCATGCTCTGCAGAATCCTGAAGGAATGCTAGGGGCTGATCCTGCAGGAG		
				CCTGGATCACCACTGGGCCTGGGTGTGTGACGGTGGAAGTCTCATGCTCTGCAGAATCCT[AG]AAGGAATGCTAGGGGCTGATCCTGCAGGAGGCTGGCC		
13060	IS	[AG]		CTTTCTGGGTCTAGGGCCAGGTC	ctg22fin4	22
13062	I		A	AGATAGCTTTCCAATGATTAGACGAATTGATTCTTTCTGTGACTCATCAGTTCT		
13062	P	A	A	CGCGCCGAGGATTTCCTGTAAAATTCATGTCTTGY		
13062	P	C	A	ATGACGTGGCAGACCTTTCCTGTAAAATTCATGTCTTY		
13062	T	A	A	ACAGCAAGACATGAATTTTACAGGAAATGAACTGATGAGTCACAGAAAGAATCAATTCGTCTAATCATTGGAAAGCTATCTGT		
13062	T	C	A	ACAGCAAGACATGAATTTTACAGGAAAGGAACTGATGAGTCACAGAAAGAATCAATTCGTCTAATCATTGGAAAGCTATCTGT		

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FIGURE 129E

				TTTTCACAGATAGCTTTCCAATGATTAGACGAATTGATTCTTTCTGTGACTCATCAGTTC[AC]TTTCCTGTAAAATTCATGTCTTGCTGTTGATTTGTGAATAAG			
13062	IS	[AC]		GTATCGTAAATAAAACAT	ctg15064	7	
13069	I		S	CTTGCTATCCCCTCGGCCATGCTGCT			
13069	P	C	S	ATGACGTGGCAGACGCCCACCTGTGCAY			
13069	P	T	S	CGCGCCGAGGACCCACCTGTGCACY			
13069	T	C	S	CTACGTGCACAGGTGGGCGCAGCATGGCCGAGGGGATAGCAAGCT			
13069	T	T	S	CTACGTGCACAGGTGGGTGCAGCATGGCCGAGGGGATAGCAAGCT			
				TGGCGGAGATTGTCATGGCCATAGACTCGGTGCACCGGCTTGGCTACGTGCACAGGTGGG[CT]GCAGCATGGCCGAGGGGATAGCAAGCTTGTTCCCTG			
13069	IS	[CT]		GCCGGGTTCTTGGAAGGTCAGAGC	ctg25099	7	
13070	I		A	CTCAGCATATCTCATCTTCTACAAAAGACTCCAAAGATTTCTCTTTTCACCT			
13070	P	A	A	CGCGCCGAGGAGCTCCCAATTACTGCCY			
13070	P	G	A	ATGACGTGGCAGACGGCTCCCAATTACTGCY			
13070	T	A	A	ATGTGGCAGTAATTGGGAGCTGGTGAAAAGAGAAATCTTTGGAGTCTTTTGTAGAAGATGAGATATGCTGAGCT			
13070	T	G	A	ATGTGGCAGTAATTGGGAGCCGGTGAAAAGAGAAATCTTTGGAGTCTTTTGTAGAAGATGAGATATGCTGAGCT			
				GCACGGCAGCTCAGCATATCTCATCTTCTACAAAAGACTCCAAAGATTTCTCTTTTCACC[AG]GCTCCCAATTACTGCCACATAACACATGCCTTGAAATGTG			
13070	IS	[AG]		ATTGCCTCTGGTTTGTAACT			
13086	I		A	CCAGGGCAACAACCTTGGGTAATTAGAAAAGTCAGAAAAACATACT			
13086	P	A	A	CGCGCCGAGGAAACAAACTCATTTAGACTAGAGAY			
13086	P	G	A	ATGACGTGGCAGACGAACAAACTCATTTAGACTAGAGAY			
13086	T	A	A	AGTGTCTCTAGTCTAAATGAGTTTGTTTGTATGTTTTTCTGACTTTTCTAATTACCCAAGGTTGTTGCCCTGGCC			
13086	T	G	A	AGTGTCTCTAGTCTAAATGAGTTTGTTCGTATGTTTTTCTGACTTTTCTAATTACCCAAGGTTGTTGCCCTGGCC			
				TGAATAAAAGAGAGGCCAGGGCAACAACCTTGGGTAATTAGAAAAGTCAGAAAAACATAC[AG]AACAAACTCATTTAGACTAGAGACACTGTGATTGATCTTG			
13086	IS	[AG]		CTACACTAGACTATTACATT	ctg16170	4	
13093	I		S	AGACACGGCAAGACAATAACTTTGTAATCGAGCTAGTTTTGCT			
13093	P	T	S	CGCGCCGAGGATTCACCAAGCTAAATTGCY			
13093	P	C	S	ATGACGTGGCAGACGTTCACCAAGCTAAATTGCY			
13093	T	T	S	TTCTGCAATTTAGCTTGGTGAATGCAAAACTAGCTCGATTACAAAGTTATTGTCTTGCCGTGTCTTT			
13093	T	C	S	TTCTGCAATTTAGCTTGGTGAACGCAAAACTAGCTCGATTACAAAGTTATTGTCTTGCCGTGTCTTT			
				CTTTGTGGCCTCAGTCATGTAACTTTGAGTTAGCAGTTTTCTGCAATTTAGCTTGGTGAA[TC]GCAAAACTAGCTCGATTACAAAGTTATTGTCTTGCCGTGT			
13093	IS	[TC]		CTTTCCGTGTTGTGAATAAC			
13122	I		A	AGCTGACCAGGTTGTCAGGCTTGTGTTCCA			
13122	P	T	A	CGCGCCGAGGTATGTTACTCTGCATGACTCY			
13122	P	C	A	ATGACGTGGCAGACCATGTTACTCTGCATGACTY			
13122	T	T	A	AGGGGAGTCATGCAGAGTAACATAGGAACACAAGCCTGACAACCTGGTCAGCTTC			
13122	T	C	A	AGGGGAGTCATGCAGAGTAACATGGGAACACAAGCCTGACAACCTGGTCAGCTTC			
				TTGAGAGTTCAAAGGAGCTAGAGTAAGTGGAAGCTGACCAGGTTGTCAGGCTTGTGTTCC[TC]ATGTTACTCTGCATGACTCCCCTTTAAACGTCAGTCTTT			
13122	IS	[TC]		GTTCTGCAATGCCGTCTTGTC	ctg15581	4	
13161	I		S	GCCAAGAGCCCTCTATGCCACAATCCTTTTTTAAAGATTAAATATGAGAA			
13161	P	G	S	ATGACGTGGCAGACCGCTTTTCTTGTTCCTTCAY			
13161	P	A	S	CGCGCCGAGGTGCTTTTCTTGTTCCTTCAY			
13161	T	G	S	GTCATGAAGGAACAAGAAAAGCGTCTCATATTTAATCTTTAAAAAAGGATTGTGGCATAGAGGGCTCTTGGCGG			
13161	T	A	S	GTCATGAAGGAACAAGAAAAGCATCTCATATTTAATCTTTAAAAAAGGATTGTGGCATAGAGGGCTCTTGGCGG			
				TCCGTGTTTGCTGCCCGTGGGTCCCTTGTTTTCTTCAAGTCATGAAGGAACAAGAAAAGC[GA]TCTCATATTTAATCTTTAAAAAAGGATTGTGGCATAGAGG			
13161	IS	[GA]		GCTCTTGGCGGCGTATAAGC	ctg15581	4	
13167	I		S	CGCACACAAAGGCCCCAAGAGCGTATCC			
13167	P	A	S	CGCGCCGAGGTAGCGCCCGAAAATGY			
13167	P	C	S	ATGACGTGGCAGACGAGCGCCCGAAAATGY			
13167	T	A	S	ACCGCATTTTCGGGCGCTAGATACGCTCTTGGGGCCTTTGTGTGCGTT			
13167	T	C	S	ACCGCATTTTCGGGCGCTCGATACGCTCTTGGGGCCTTTGTGTGCGTT			
				AGCGACGGTTCCCTCGTATCTCTGCCTGTGTCCTGCAAGCTCACCGCATTTTCGGGCGCT[AC]GATACGCTCTTGGGGCCTTTGTGTGCGTTCTCTGTCTT			
13167	IS	[AC]		ATTTCCGGCGACGTGCCGCGT	ctg16170	4	FLJ23544
13185	I		S	AGTTTGCTTACCTTCTCTGACCTGCAGTAGGCATATTCTTAAAAC			
13185	P	A	S	CGCGCCGAGGTGGAGCTATGCAGAGTCY			
13185	P	C	S	ATGACGTGGCAGACGGGAGCTATGCAGAGTY			
13185	T	A	S	AAGGGACTCTGCATAGCTCCATTTTAAGAATATGCCTACTGCAGGTCAGAGAAGGTAAGCAAACTGC			
13185	T	C	S	AAGGGACTCTGCATAGCTCCCTTTTAAGAATATGCCTACTGCAGGTCAGAGAAGGTAAGCAAACTGC			
				TCAAGAGAGGTGAGAAAAAGGAGCCACAGCAGGATGATTCAAGGGACTCTGCATAGCTCC[AC]TTTTAAGAATATGCCTACTGCAGGTCAGAGAAGGTAAG			
13185	IS	[AC]		CAAACTGCCTAAGGCCACACAG	ctg14391	11	
13220	I		A	GCACAACCAGAAGCTGGTGTGGCTTACTCTT			
13220	P	A	A	CGCGCCGAGGATGAGTGTGTCCTGAGCY			
13220	P	G	A	ATGACGTGGCAGACGTGAGTGTGTCCTGAGCY			
13220	T	A	A	AAATGCTCAGGACACACTCATAGAGTAAGCCACACCAGCTTCTGGTTGTGCCT			
13220	T	G	A	AAATGCTCAGGACACACTCACAGAGTAAGCCACACCAGCTTCTGGTTGTGCCT			
				CCAGGCCTCTGATCTAGGTCGGTACAAGAGGCACAACCAGAAGCTGGTGTGGCTTACTCT[AG]TGAGTGTGTCCTGAGCATTTGCTGAATTATGACAAGCA			
13220	IS	[AG]		TTTCTCCAAATGTCCTGTTTGA			
13226	I		A	GCTGGCAGATTGTGTGGAGGTTGCAGTTCTGA			
13226	P	T	A	CGCGCCGAGGTCCTGAGGCTGAAGAAGY			
13226	P	C	A	ATGACGTGGCAGACCCCTGAGGCTGAAGAAY			
13226	T	T	A	GCCCCTTCTTCAGCCTCAGGACAGAACTGCAACCTCCACACAATCTGCCAGCCG			
13226	T	C	A	GCCCCTTCTTCAGCCTCAGGGCAGAACTGCAACCTCCACACAATCTGCCAGCCG			
				CCAGAAGACCGTGTTGTCCCCTGGTGTCGGCTGGCAGATTGTGTGGAGGTTGCAGTTCTG[TC]CCTGAGGCTGAAGAAGGGGCTAAGAGACACAAATGAA			
13226	IS	[TC]		GACCCAGGCCGAGCTCCTGAGGA	ctg16114	X	
13288	I		A	TCCTTACCTTGGAGATCCTAGTCTGATGGAGGAGACAC			
13288	P	G	A	ATGACGTGGCAGACGGTCCCACCTCTGGY			
13288	P	T	A	CGCGCCGAGGTGTCCCACCTCTGGAY			
13288	T	G	A	AATCTCCAGAGGTGGGACCTGTCTCCTCCATCAGACTAGGATCTCCAAGGTAAGGACC			
13288	T	T	A	AATCTCCAGAGGTGGGACATGTCTCCTCCATCAGACTAGGATCTCCAAGGTAAGGACC			
				GATGGGGTGGGCCAGGGAACTGGTCCTTACCTTGGAGATCCTAGTCTGATGGAGGAGACA[GT]GTCCCACCTCTGGAGATTGTCATCTGATGGGAAGATA			
13288	IS	[GT]		GGAACATGGTCTCATGATCTTTG	ctg13445	1	
13298	I		S	GGTCTTGATAGGGTCCCCCGGCCTCT			
13298	P	C	S	ATGACGTGGCAGACGCTCCACTCAGCTCAY			
13298	P	T	S	CGCGCCGAGGACTCCACTCAGCTCATCY			
13298	T	C	S	CTGAGATGAGCTGAGTGGAGCGAGGCCGGGGGACCCTATCAAGACCTT			
13298	T	T	S	CTGAGATGAGCTGAGTGGAGTGAGGCCGGGGGACCCTATCAAGACCTT			
				CCCAGGGCACAGTGGGGACCAGGCATGAGGCACCTGCAGACTGAGATGAGCTGAGTGGAG[CT]GAGGCCGGGGGACCCTATCAAGACCTTTCCCCTCCA			
13298	IS	[CT]		GCTGGAGCCAGACCTGAGCTGTGA	ctg21fin5	21	
13327	I		S	ACACAGGCCTACACAGCAAGGAGGCCA			
13327	P	A	S	CGCGCCGAGGTCCTGTACATGAGACAGGY			
13327	P	G	S	ATGACGTGGCAGACCCCTGTACATGAGACAGGY			
13327	T	A	S	GCTTCCTGTCTCATGTACAGGAGGCCTCCTTGCTGTGTAGGCCTGTGTTC			
13327	T	G	S	GCTTCCTGTCTCATGTACAGGGGGCCTCCTTGCTGTGTAGGCCTGTGTTC			
				ATCTTGTTTTTGCGGGTCCATCTGTACATCTTGTGTTTTGCTTCCTGTCTCATGTACAGG[AG]GGCCTCCTTGCTGTGTAGGCCTGTGTTCAATTCTAGGGG			
13327	IS	[AG]		TCAGTTGTCTGGCAGATGGGC	ctg12325	11	
13366	I		A	ACGCGCCAGGGGTGGCCAA			
13366	P	C	A	ATGACGTGGCAGACCGGTGGGCCGTCY			
13366	P	T	A	CGCGCCGAGGTGGTGGGCCGTCY			
13366	T	C	A	GGTGGACGGCCCACCGTGGCCACCCCTGGCGCGTGG			
13366	T	T	A	GGTGGACGGCCCACCATGGCCACCCCTGGCGCGTGG			

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FIGURE 129E

				CATCATCAAGGTCATGGTGAGCCGCGGGCGGGAGCACCGTCCACGCGCCAGGGGTGGCCA[CT]GGTGGGCCGTCCACCCACTCCGGGCCTCACTTTACC		
13366 IS	[CT]			CCTCTGTGAGTGCGGAGGCCGAAG	ctg13740	5
13371 I			S	CCTTGGCCCAGCCCAGCCCAT		
13371 P	C		S	ATGACGTGGCAGACGCCCACTCCCTGCY		
13371 P	T		S	CGCGCCGAGGACCCACTCCCTGCTY		
13371 T	C		S	GGCCAGCAGGGAGTGGGCTGGGCTGGGCTGGGCCAAGGTA		
13371 T	T		S	GGCCAGCAGGGAGTGGGTTGGGCTGGGCTGGGCCAAGGTA		
				TGGGTGAGATCGTGACCACCATTCCCACCATAGGTGAGGTGGGGGCCAGCAGGGAGTGGG[CT]TGGGCTGGGCTGGGCCAAGGTACAAGGCCTCACCCT		
13371 IS	[CT]			GCATCCCGCACCCAGGCTTCAACG	ctg14708	2
13397 I			A	TTCAGTGGGTTCTCTTGGGCTCTAGGTCCTGT		
13397 P	C		A	CGCGCCGAGGCAGAATGTTGTGAGGGGY		
13397 P	G		A	ATGACGTGGCAGACGAGAATGTTGTGAGGGGY		
13397 T	C		A	TAAACCCCTCACAACATTCTGCAGGACCTAGAGCCCAAGAGAACCCACTGAAGA		
13397 T	G		A	TAAACCCCTCACAACATTCTCCAGGACCTAGAGCCCAAGAGAACCCACTGAAGA		
				TGCCTCCGCCATCCCACAGATGATGGATCTTCAGTGGGTTCTCTTGGGCTCTAGGTCCTG[CG]AGAATGTTGTGAGGGGTTTATTTTTTTTTAATAGTGTTC		
13397 IS	[CG]			ATAAAGAAATACATAGTATTC	ctg15665	20
13405 I			S	AGCAAGTCATCCAGCCTCTCTGGATCTCAGTGA		
13405 P	A		S	CGCGCCGAGGTTAATCTTCATTGATGAATAGTGACY		
13405 P	G		S	ATGACGTGGCAGACCTAATCTTCATTGATGAATAGTGACY		
13405 T	A		S	TGCCGTCACTATTCATCAATGAAGATTAACACTGAGATCCAGAGAGGCTGGATGACTTGCTCA		
13405 T	G		S	TGCCGTCACTATTCATCAATGAAGATTAGCACTGAGATCCAGAGAGGCTGGATGACTTGCTCA		
				TGCCTTGGGGAAATGTGGAGAACATTCAATCTTGCCGTCACTATTCATCAATGAAGATTA[AG]CACTGAGATCCAGAGAGGCTGGATGACTTGCTCAAGTTC		
13405 IS	[AG]			ACCAGCATGGTAGTGGCAAAG		
13416 I			S	CTGCGCCTCCCGCTCCCCATCA		
13416 P	G		S	ATGACGTGGCAGACCCTGGCTGGTATCCCY		
13416 P	A		S	CGCGCCGAGGTCTGGCTGGTATCCCY		
13416 T	G		S	AACCGGGATACCAGCCAGGGATGGGGAGCGGGAGGCGCAGGG		
13416 T	A		S	AACCGGGATACCAGCCAGAGATGGGGAGCGGGAGGCGCAGGG		
				AGTGGCTCATTCTTTCTGTTGCACCACGGACCGTCATTCTGTAACCGGGATACCAGCCAG[GA]GATGGGGAGCGGGAGGCGCAGGGCAGGGGCGTCCCT		
13416 IS	[GA]			CCTCTCAGCACAGCCTCCCCGCGC	ctg16339	X
13419 I			A	ACAAATAGGGAATCACGGTGTGAAGCCCAGGAT		
13419 P	G		A	ATGACGTGGCAGACGCCTTCTTTGGCTTCCY		
13419 P	A		A	CGCGCCGAGGACCTTCTTTGGCTTCCTY		
13419 T	G		A	TCACAGGAAGCCAAAGAAGGCTCCTGGGCTTCACACCGTGATTCCCTATTTGTGT		
13419 T	A		A	TCACAGGAAGCCAAAGAAGGTTCCTGGGCTTCACACCGTGATTCCCTATTTGTGT		
				ACTTCTTCTTGTTTAGATGATGAAGGACACAAATAGGGAATCACGGTGTGAAGCCCAGGA[GA]CCTTCTTTGGCTTCCTGTGACTGCCACGGACTTGGAATC		
13419 IS	[GA]			ATGTGGTCCCCGAATTAACTT	ctg17403	17
13420 I			A	AGCCTTCTTTGGCTTCCTGTGACTGCCAA		
13420 P	C		A	ATGACGTGGCAGACCGGACTTGGAATCATGTGY		
13420 P	T		A	CGCGCCGAGGTGGACTTGGAATCATGTGY		
13420 T	C		A	GGACCACATGATTCCAAGTCCGTGGCAGTCACAGGAAGCCAAAGAAGGCTCC		
13420 T	T		A	GGACCACATGATTCCAAGTCCATGGCAGTCACAGGAAGCCAAAGAAGGCTCC		
				CACAAATAGGGAATCACGGTGTGAAGCCCAGGAGCCTTCTTTGGCTTCCTGTGACTGCCA[CT]GGACTTGGAATCATGTGGTCCCCGAATTAACTTTCCATA		
13420 IS	[CT]			GTATTCTGAACTATGAACTGG	ctg22fin3	22
13432 I			S	TGCTGATTTCTCCCACAACTCAATAGTTTCCTGAATTAAAATAACAGCTTCA		
13432 P	G		S	ATGACGTGGCAGACCGACACTTACCTTTGGAAGY		
13432 P	A		S	CGCGCCGAGGTGACACTTACCTTTGGAAGY		
13432 T	G		S	CGTCCTTCCAAAGGTAAGTGTCGGAAGCTGTTATTTTAATTCAGGAAACTATTGAGTTGTGGGAGAAATCAGCAAA		
13432 T	A		S	CGTCCTTCCAAAGGTAAGTGTCAGAAGCTGTTATTTTAATTCAGGAAACTATTGAGTTGTGGGAGAAATCAGCAAA		
				GGCTCGAAAATGAGACGCTTTTCTGCTTGGATCAGCCCCGTCCTTCCAAAGGTAAGTGTC[GA]GAAGCTGTTATTTTAATTCAGGAAACTATTGAGTTGTGG		
13432 IS	[GA]			GAGAAATCAGCAAAGGCAAGG	ctg15907	6
13473 I			A	AGGAGATGGGCCCTGCAAGCCTCTTC		
13473 P	G		A	ATGACGTGGCAGACGCTTAGCCGTCTGTTCY		
13473 P	T		A	CGCGCCGAGGTCTTAGCCGTCTGTTCAY		
13473 T	G		A	TTTCTGAACAGACGGCTAAGCAAGAGGCTTGCAGGGCCCATCTCCTCA		
13473 T	T		A	TTTCTGAACAGACGGCTAAGAAAGAGGCTTGCAGGGCCCATCTCCTCA		
				ACCTGTACTGAGCTCCGTGAGGATAAATAACTCTGAGGAGATGGGCCCTGCAAGCCTCTT[GT]CTTAGCCGTCTGTTCAGAAAATAGCGTTTTCGAAATGCC		
13473 IS	[GT]			CTGAGTTGACCTAATGTCTTA	ctg17042	11
13513 I			S	CACACCTCAGGATGGAGACACTGGGGCA		
13513 P	G		S	ATGACGTGGCAGACCCTGGGCACCAGGY		
13513 P	A		S	CGCGCCGAGGTCTGGGCACCAGGY		
13513 T	G		S	CCTCCCTGGTGCCCAGGGCCCCAGTGTCTCCATCCTGAGGTGTGGC		
13513 T	A		S	CCTCCCTGGTGCCCAGAGCCCCAGTGTCTCCATCCTGAGGTGTGGC		
				TCCCCTGCTGCCCCACCCTAAGGCCCTGCCTCCTCCACTGCTCTCCTCCCTGGTGCCCAG[GA]GCCCCAGTGTCTCCATCCTGAGGTGTGGCTGAGGAAG		
13513 IS	[GA]			GAAGTAGGTATGTGGCACAGAGA	ctg14932	16
13577 I			A	GGGGGTCAGAAGGTCAACAGAACAGGCTAGAT		
13577 P	A		A	CGCGCCGAGGAGCTTCCAGAACTGACTAY		
13577 P	G		A	ATGACGTGGCAGACGGCTTCCAGAACTGACTY		
13577 T	A		A	TGATTAGTCAGTTCTGGAAGCTTCTAGCCTGTTCTGTTGACCTTCTGACCCCCTG		
13577 T	G		A	TGATTAGTCAGTTCTGGAAGCCTCTAGCCTGTTCTGTTGACCTTCTGACCCCCTG		
				GGTGAGCACCATCCGGACTCTAGAAGCCAGGGGGTCAGAAGGTCAACAGAACAGGCTAGA[AG]GCTTCCAGAACTGACTAATCATGGTTCCCATAAGCCAT		
13577 IS	[AG]			TTTCTAACACAGTAGAGATATT	ctg13657	1
13607 I			A	TGCAGATGTTTACAGCTCAGCTGCATAATTCTCTCCCA		
13607 P	C		A	ATGACGTGGCAGACCTCTGAAGCCTCCCTGY		
13607 P	T		A	CGCGCCGAGGTTCTGAAGCCTCCCTGY		
13607 T	C		A	CTGACAGGGAGGCTTCAGAGGGGAGAGAATTATGCAGCTGAGCTGTAAACATCTGCAAT		
13607 T	T		A	CTGACAGGGAGGCTTCAGAAGGGAGAGAATTATGCAGCTGAGCTGTAAACATCTGCAAT		
				GATCCCAGGAGGAATCAGAGAATTGCAGATGTTTACAGCTCAGCTGCATAATTCTCTCCC[CT]TCTGAAGCCTCCCTGTCAGGTGGGCATCCAGCCTCCTGA		
13607 IS	[CT]			TGAATACCTCAAGAGACGGGG	ctg16105	5
13611 I			A	TGTGTAAACATAGGCAGGCCACTTAGCCTCTCACA		
13611 P	C		A	ATGACGTGGCAGACCTCCTCAGTTTCCACCCY		
13611 P	T		A	CGCGCCGAGGTTCCTCAGTTTCCACCCY		
13611 T	C		A	ACAAGGGTGGAAACTGAGGAGGTGAGAGGCTAAGTGGCCTGCCTATGTTTACACAGC		
13611 T	T		A	ACAAGGGTGGAAACTGAGGAAGTGAGAGGCTAAGTGGCCTGCCTATGTTTACACAGC		
				TGGGTTTGAATCTGCCGCTAACTGGCTGTGTAAACATAGGCAGGCCACTTAGCCTCTCAC[CT]TCCTCAGTTTCCACCCTTGTAAAGTGGAATGCTAATGCT		
13611 IS	[CT]			GCACCTTGAAGAGCTGTTATC	ctg15422	X
13618 I			S	TGAGATACAAGTCATCAGGAAGCTGAAAAACAGGAAAAAGCCT		
13618 P	C		S	ATGACGTGGCAGACGACCAAGTTCAAACTCCTGY		
13618 P	T		S	CGCGCCGAGGAACCAAGTTCAAACTCCTGY		
13618 T	C		S	GAAACAGGAGTTTGAACTTGGTCGGCTTTTTCCTGTTTTTCAGCTTCCTGATGACTTGTATCTCACT		
13618 T	T		S	GAAACAGGAGTTTGAACTTGGTTGGCTTTTTCCTGTTTTTCAGCTTCCTGATGACTTGTATCTCACT		
				AGGTGCCTTCTAAGGGCTTTAGCTGAAATTCTTCTGGTGAAACAGGAGTTTGAACTTGGT[CT]GGCTTTTTCCTGTTTTTCAGCTTCCTGATGACTTGTATCT		
13618 IS	[CT]			CACTTCGAAATCTGATATTA	ctg22fin4	22
13619 I			A	AGAAATTGGCAAACGCTACACGTCAAGCACCAT		
13619 P	G		A	ATGACGTGGCAGACGAGACCAGAGCCGTTY		
13619 P	C		A	CGCGCCGAGGCAGACCAGAGCCGTTY		
13619 T	G		A	TAACAACGGCTCTGGTCTCTGGTGCTTGACGTGTAGCGTTTGCCAATTTCTGT		
13619 T	C		A	TAACAACGGCTCTGGTCTGTGGTGCTTGACGTGTAGCGTTTGCCAATTTCTGT		

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FIGURE 129E

				TAGACCACGACAGAAATGTTTACACCACAGAAATTGGCAAACGCTACACGTCAAGCACCA[GC]AGACCAGAGCCGTTGTTATTTTTTTATTTAATTCAATGTA			
13619	IS	[GC]		TATGTAGAAACATGCTCTCA	ctg3461	17	
13625	I		A	GGGCCAACCACCTAGACACACCCCGT			
13625	P	C	A	ATGACGTGGCAGACCTCACCTGGCGTCCY			
13625	P	A	A	CGCGCCGAGGATCACCTGGCGTCCY			
13625	T	C	A	ACAAGGACGCCAGGTGAGCGGGGTGTGTCTAGGTGGTTGGCCCCT			
13625	T	A	A	ACAAGGACGCCAGGTGATCGGGGTGTGTCTAGGTGGTTGGCCCCT			
				AATCCAGTGAGGGCACCAGCAGCCGGGAAGAGGAGGGGCCAACCACCTAGACACACCCCG[CA]TCACCTGGCGTCCTTGTTCCAATGGGAAGGTGGCTGA			
13625	IS	[CA]		GTTGGTTCGCTTCCTGCTGCACA	ctg19247	7	
13627	I		S	CAACTTCTCAATTCCACTGTTATTGGATAAAAGAACCTATAGACAATATGT			
13627	P	T	S	CGCGCCGAGGAAAACGAATGGGTGTGGY			
13627	P	C	S	ATGACGTGGCAGACGAAACGAATGGGTGTGGY			
13627	T	T	S	ACAGCCACACCCATTCGTTTTCATATTGTCTATAGGTTCTTTTATCCAATAACAGTGGAATTGAGAAGTTGTG			
13627	T	C	S	ACAGCCACACCCATTCGTTTCCATATTGTCTATAGGTTCTTTTATCCAATAACAGTGGAATTGAGAAGTTGTG			
				AGGCCAAATCCAAACCTTTTTCATAAAGTTTTATTGGACCACAGCCACACCCATTCGTTT[TC]CATATTGTCTATAGGTTCTTTTATCCAATAACAGTGGAATT			
13627	IS	[TC]		GAGAAGTTGTGACAAATAA	MULTIPLE	18	
13668	I		A	GGGCACCCCCTTAACCGCTCCTCA			
13668	P	C	A	ATGACGTGGCAGACCGACCTCCAGCAGAGY			
13668	P	T	A	CGCGCCGAGGTGACCTCCAGCAGAGY			
13668	T	C	A	TGGGCTCTGCTGGAGGTCGGAGGAGCGGTTAAGGGGGTGCCCCA			
13668	T	T	A	TGGGCTCTGCTGGAGGTCAGAGGAGCGGTTAAGGGGGTGCCCCA			
				CGTTTCTCTTTCTTCCCTTTGCCCCCGGGGAAATGGGGCACCCCCTTAACCGCTCCTC[CT]GACCTCCAGCAGAGCCCACTGGGGACAGCCTCAGCCTG			
13668	IS	[CT]		GCCCTCTTTGCATTGCACTTTT	ctg3454	17	
13669	I		S	TGTATGAGCCAGAGAAGCCCCAAAGACAGAACAA			
13669	P	A	S	CGCGCCGAGGTAGCAACCTCCCTGTCY			
13669	P	G	S	ATGACGTGGCAGACCAGCAACCTCCCTGTY			
13669	T	A	S	GTAGGACAGGGAGGTTGCTATGTTCTGTCTTTGGGGCTTCTCTGGCTCATACAGC			
13669	T	G	S	GTAGGACAGGGAGGTTGCTGTGTTCTGTCTTTGGGGCTTCTCTGGCTCATACAGC			
				CAGCCCTCTTTGCTGCTGGGTGCGTGTCTGGGCAGGTCTGGGTAGGACAGGGAGGTTGCT[AG]TGTTCTGTCTTTGGGGCTTCTCTGGCTCATACAGCCT			
13669	IS	[AG]		CTGGCCTCCTCAGTGACCACCAG	ctg832	11	
13673	I		A	GCCTGGACCTCGGTTTCCTCACCTGTATAGTAGAC			
13673	P	G	A	ATGACGTGGCAGACGATATGGGAGCACCCAY			
13673	P	T	A	CGCGCCGAGGTATATGGGAGCACCCAGY			
13673	T	G	A	TGCGCTGGGTGCTCCCATATCTCTACTATACAGGTGAGGAAACCGAGGTCCAGGCTG			
13673	T	T	A	TGCGCTGGGTGCTCCCATATATCTACTATACAGGTGAGGAAACCGAGGTCCAGGCTG			
				GCTGGGTACTTTGAGTGGCTCCTTCAGCCTGGACCTCGGTTTCCTCACCTGTATAGTAGA[GT]ATATGGGAGCACCCAGCGCAGGATCACTGCCCACCTCA			
13673	IS	[GT]		GTCACACTGTGAACATAAATCA	ctg22fin3	22	
13674	I		S	GCTCGATGGCACGGCGCACTTTCTA			
13674	P	A	S	CGCGCCGAGGTCGCAGTTTCCTCAAATTY			
13674	P	G	S	ATGACGTGGCAGACCCGCAGTTTCCTCAAATY			
13674	T	A	S	AAAGAATTTGAGGAAACTGCGAAGAAAGTGCGCCGTGCCATCGAGCAG			
13674	T	G	S	AAAGAATTTGAGGAAACTGCGGAGAAAGTGCGCCGTGCCATCGAGCAG			
				ATTCTTTATTTCCAGGCAAAGGAAACCAACAATAAGAAGAAAGAATTTGAGGAAACTGCG[AG]AGAAAGTGCGCCGTGCCATCGAGCAGCTGGCTGCCATG			
13674	IS	[AG]		GATTGAGGCCTCTGGCCGGAGC	ctg15907	6	
13692	I		A	AGAAGGTTAGATTGGCCCCATGGATTCCTTTCACAA			
13692	P	C	A	ATGACGTGGCAGACCTGACATCTGAAACACACTY			
13692	P	T	A	CGCGCCGAGGTTGACATCTGAAACACACTGY			
13692	T	C	A	TCAGCAGTGTGTTTCAGATGTCAGTGTGAAAGGAATCCATGGGGCCAATCTAACCTTCTAG			
13692	T	T	A	TCAGCAGTGTGTTTCAGATGTCAATGTGAAAGGAATCCATGGGGCCAATCTAACCTTCTAG			
				TGGTTTTCAGGATTACTCTAATACTAGAAGGTTAGATTGGCCCCATGGATTCCTTTCACA[CT]TGACATCTGAAACACACTGCTGACTCCTAACCTGGGTTGG			
13692	IS	[CT]		ACTCATGCTGCTGGCCTGGA	ctg15907	6	
13696	I		A	GGACAACTCGGAGAGCAGCGAGGAGTCT			
13696	P	A	A	CGCGCCGAGGATCGGACAGTGCGGY			
13696	P	G	A	ATGACGTGGCAGACGTCGGACAGTGCGGY			
13696	T	A	A	CTGTCCGCACTGTCCGATGACTCCTCGCTGCTCTCCGAGTTGTCCAT			
13696	T	G	A	CTGTCCGCACTGTCCGACGACTCCTCGCTGCTCTCCGAGTTGTCCAT			
				TGTAGCCGTCCAGGTCAAGGCTGAAAAGCCCATGGACAACTCGGAGAGCAGCGAGGAGTC[AG]TCGGACAGTGCGGACAGTGAGGAGGCACCAGCAGCC			
13696	IS	[AG]		ATGACTGCAGCTCAGGTGAGGCCT	ctg12325	11	
13700	I		A	CCCGGGATCGTAGTCAGAGCCCACCA			
13700	P	C	A	ATGACGTGGCAGACCTGTGGTCTGTGCAAGY			
13700	P	T	A	CGCGCCGAGGTTGTGGTCTGTGCAAGY			
13700	T	C	A	CTGACTTGCACAGACCACAGGGTGGGCTCTGACTACGATCCCGGGGT			
13700	T	T	A	CTGACTTGCACAGACCACAAGGTGGGCTCTGACTACGATCCCGGGGT			
				CTGGGGCTAGCAGAGGCACTTGCAGCACAGAGAACCCCGGGATCGTAGTCAGAGCCCACC[CT]TGTGGTCTGTGCAAGTCAGACAAAATGAAGATGGGTT			
13700	IS	[CT]		AATTCACCTTTTCTTTTCTTTTC	ctg12325	11	
13702	I		A	CGGCTGCCGAGGGCGGTGGT			
13702	P	A	A	CGCGCCGAGGATTTGGGCCTGGTGTY			
13702	P	G	A	ATGACGTGGCAGACGTTTGGGCCTGGTGY			
13702	T	A	A	TAACACACCAGGCCCAAATCCACCGCCCTCGGCAGCCGCC			
13702	T	G	A	TAACACACCAGGCCCAAACCCACCGCCCTCGGCAGCCGCC			
				GTAGAGGTTGGGAAGTCTGCCGAGGAAGGGCCCGCGTGGGGCGGCTGCCGAGGGCGGTGG[AG]TTTGGGCCTGGTGTGTTACTCTGCAGACAAGGCCT			
13702	IS	[AG]		CGGTTATGATCACGACCGGATGGCG	ctg14583	1	
13704	I		S	GGGGGCCAGAGGTATCCGGCTGGTATTAT			
13704	P	T	S	CGCGCCGAGGAGTCCAGGGCTACCY			
13704	P	C	S	ATGACGTGGCAGACGGTCCAGGGCTACCY			
13704	T	T	S	AAAGGGTAGCCCTGGACTTAATACCAGCCGGATACCTCTGGCCCCCAC			
13704	T	C	S	AAAGGGTAGCCCTGGACCTAATACCAGCCGGATACCTCTGGCCCCCAC			
				GTTCACGTTAACATATAGACACTGTTGGAAGCAGTTCCTTCTAAAAGGGTAGCCCTGGAC[TC]TAATACCAGCCGGATACCTCTGGCCCCCACCCCATTACT			
13704	IS	[TC]		GTACCTCTGGAGTCACTACTG	ctg14583	1	COX10
13707	I		A	GCAAACTGACCAGCTCAGGTACCCAGTCAGAA			
13707	P	T	A	CGCGCCGAGGTGATTCCACCCGCAAY			
13707	P	C	A	ATGACGTGGCAGACCGATTCCACCCGCAY			
13707	T	T	A	GCATTTGCGGGTGGAATCATCTGACTGGGTACCTGAGCTGGTCAGTTTGCAG			
13707	T	C	A	GCATTTGCGGGTGGAATCGTCTGACTGGGTACCTGAGCTGGTCAGTTTGCAG			
				CGCCGAGTTCTGGGAAGAGAATTTTAACTGCAAACTGACCAGCTCAGGTACCCAGTCAGA[TC]GATTCCACCCGCAAATGCACAGGTGAGAGCTGCCCAGG			
13707	IS	[TC]		GTGGTGAGGGTGGTGAGGGTGG	ctg16401	17	
13709	I		S	CTCTGGCCTGCTCGGGGTCCACA			
13709	P	A	S	CGCGCCGAGGTGTCCGCTGTTCCTCY			
13709	P	G	S	ATGACGTGGCAGACCGTCCGCTGTTCCTY			
13709	T	A	S	CTATGAGGAACAGCGGACAGTGGACCCCGAGCAGGCCAGAGGG			
13709	T	G	S	CTATGAGGAACAGCGGACGGTGGACCCCGAGCAGGCCAGAGGG			
				GATAGCATGGCTGGGGGCCCGGCCCCCACACAGCGTGATTGACTATGAGGAACAGCGGAC[AG]GTGGACCCCGAGCAGGCCAGAGGGGTGCTCAAGTGC			
13709	IS	[AG]		GACATGTCGGATCTGTCTCTCATC	ctg17450	X	GRM6
13712	I		A	TGAACTAACTGAATGAGAACTCACTTTTCACTAAGGGGATGGTGT			
13712	P	C	A	ATGACGTGGCAGACCTAGCTGTTCATGAGGGAY			
13712	P	A	A	CGCGCCGAGGATAGCTGTTCATGAGGGAY			
13712	T	C	A	GGGATCCCTCATGAACAGCTAGCACCATCCCCTTAGTGAAAAGTGAGTTCTCATTCAGTTAGTTCACA			
13712	T	A	A	GGGATCCCTCATGAACAGCTATCACCATCCCCTTAGTGAAAAGTGAGTTCTCATTCAGTTAGTTCACA			

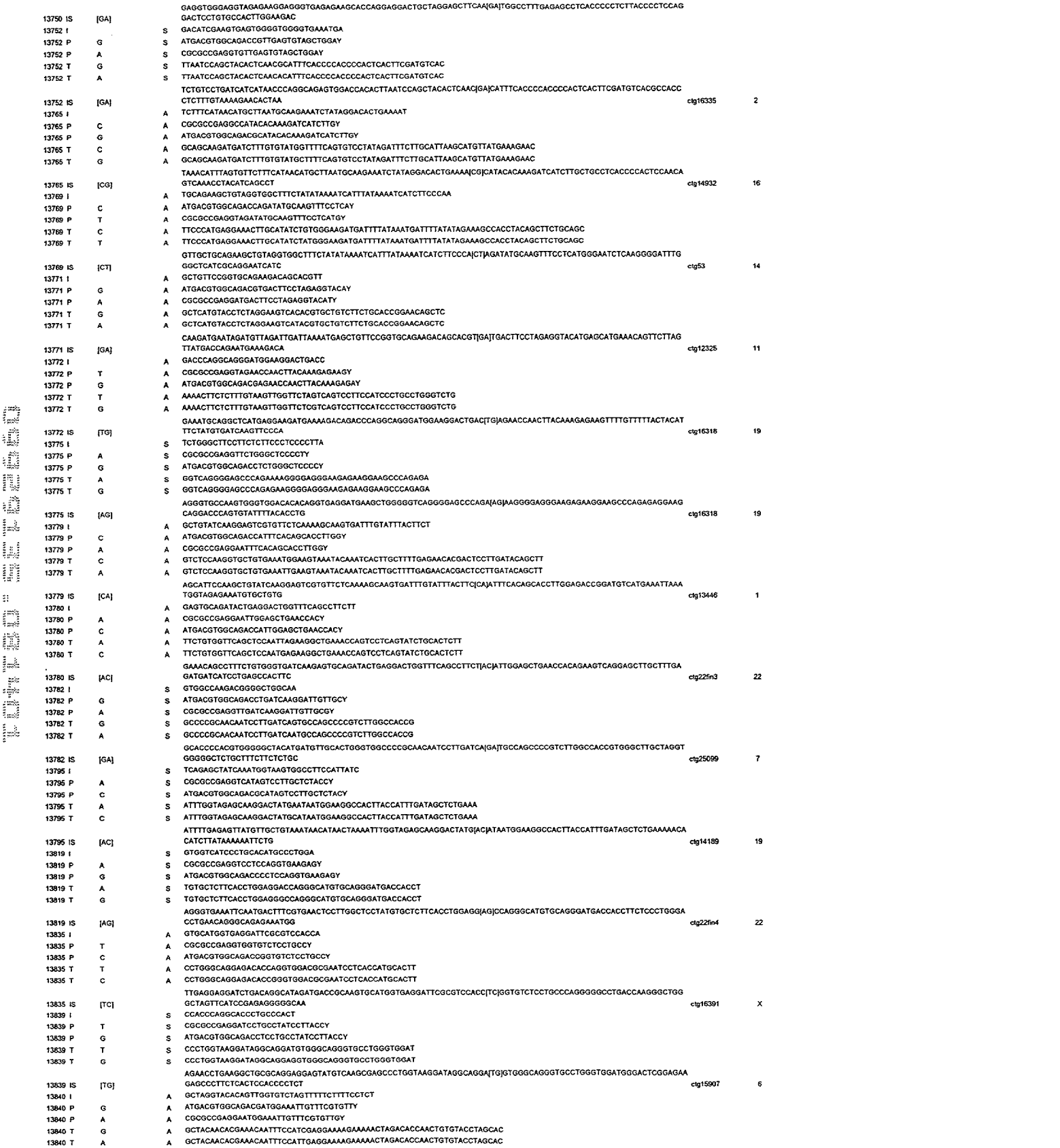
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FIGURE 129E

				ACAACCAGATCTTGTGTGAACTAACTGAATGAGAACTCACTTTTCACTAAGGGGATGGTG[CA]TAGCTGTTCATGAGGGATCCCCCCATGATCCCGTCACCT			
13712	IS	[CA]		CCCTCCAAGCCCCACCTCCAA	clg11	15	
13713	I		A	CTCATCCCTGCATTTCCAGTTCCTTGTCCAGGT			
13713	P	A	A	CGCGCCGAGGACTTGGCTCAGAGTAGCY			
13713	P	G	A	ATGACGTGGCAGACGCTTGGCTCAGAGTAGY			
13713	T	A	A	CGAAGCTACTCTGAGCCAAGTCCTGGACAAGGAACTGGAAATGCAGGGATGAGAA			
13713	T	G	A	CGAAGCTACTCTGAGCCAAGCCCTGGACAAGGAACTGGAAATGCAGGGATGAGAA			
				TCGGCCTTCTCCTGCCGGCTCCCATATTCTCATCCCTGCATTTCCAGTTCCTTGTCCAGG[AG]CTTGGCTCAGAGTAGCTTCGGGGTAATTGTCGAGTGGAT			
13713	IS	[AG]		GAGTGATGTAGTTGCCCTCTG	clg22fin4	22	
13714	I		S	GCTCTGTCAAGAGGGGTGTTCTCAGCATTTTACAAAATAAAATAACAAAGAA			
13714	P	G	S	ATGACGTGGCAGACCAAGCAGAACAGAATGGCY			
13714	P	A	S	CGCGCCGAGGTAAGCAGAACAGAATGGCY			
13714	T	G	S	CACTGCCATTCTGTTCTGCTTGTCTTTGTTATTTTATTTTGTAAAATGCTGAGAACACCCCTCTTGACAGAGCTG			
13714	T	A	S	CACTGCCATTCTGTTCTGCTTATCTTTGTTATTTTATTTTGTAAAATGCTGAGAACACCCCTCTTGACAGAGCTG			
				GGTTCTCCCTTCCGGTGAATTCATCCTGCACACCATTTTCACTGCCATTCTGTTCTGCTT[GA]TCTTTGTTATTTTATTTTGTAAAATGCTGAGAACACCCCTC			
13714	IS	[GA]		TTGACAGAGCTGGCAGAGC	clg13538	4	
13718	I		A	ATCACTTGGGCAGCCAAATTTGGAGAGCTGAA			
13718	P	C	A	ATGACGTGGCAGACCGAGCTGGGATTGAACY			
13718	P	T	A	CGCGCCGAGGTGAGCTGGGATTGAACAY			
13718	T	C	A	TGTCTGTTCAATCCCAGCTCGTCAGCTCTCCAAATTTGGCTGCCCAAGTGATGT			
13718	T	T	A	TGTCTGTTCAATCCCAGCTCATCAGCTCTCCAAATTTGGCTGCCCAAGTGATGT			
				TAGAGCATGTGGTGTCACTGCAGCGTCACATCACTTGGGCAGCCAAATTTGGAGAGCTGA[CT]GAGCTGGGATTGAACAGACATTCAGGTCACGGTCATCT			
13718	IS	[CT]		ATGGTCCCCTGACCTGGCTGCC	clg17326	12	
13719	I		A	AGAGCTGACGAGCTGGGATTGAACAGACATTCAGT			
13719	P	G	A	ATGACGTGGCAGACGTCACGGTCATCTATGGTY			
13719	P	C	A	CGCGCCGAGGCTCACGGTCATCTATGGTY			
13719	T	G	A	GGGGACCATAGATGACCGTGACCTGAATGTCTGTTCAATCCCAGCTCGTCAGCTCTCC			
13719	T	C	A	GGGGACCATAGATGACCGTGAGCTGAATGTCTGTTCAATCCCAGCTCGTCAGCTCTCC			
				CACATCACTTGGGCAGCCAAATTTGGAGAGCTGACGAGCTGGGATTGAACAGACATTCAG[GC]TCACGGTCATCTATGGTCCCCTGACCTGGCTGCCCACC			
13719	IS	[GC]		TGTTGGCATGGCTCCTTGTGGC	clg3235	11	
13729	I		A	GCCCGGCTGCTGACCTGGCGA			
13729	P	C	A	ATGACGTGGCAGACCGCTGCCATGCTGY			
13729	P	T	A	CGCGCCGAGGTGCTGCCATGCTGAY			
13729	T	C	A	TCCTTCAGCATGGCAGCGCGCCAGGTCAGCAGCCGGGCAC			
13729	T	T	A	TCCTTCAGCATGGCAGCACGCCAGGTCAGCAGCCGGGCAC			
				GCAGTTCAAGTTGGCAGACATGGCCCTGGCCCTGGAGAGTGCCCGGCTGCTGACCTGGCG[CT]GCTGCCATGCTGAAGGATAACAAGAAGCCTTTCATCA			
13729	IS	[CT]		AGGTGCCCACAGGGGTCCCCGAG	clg15907	6	
13734	I		A	GGGTCAAGCAGGGTGGGCGGGA			
13734	P	T	A	CGCGCCGAGGTGGTGGCTGTGGCY			
13734	P	C	A	ATGACGTGGCAGACCGGTGGCTGTGGCY			
13734	T	T	A	CCCAGCCACAGCCACCACCCGCCCACCCTGCTTGACCCGG			
13734	T	C	A	CCCAGCCACAGCCACCGCCCGCCCACCCTGCTTGACCCGG			
				TGGACTATCTATAGGTGCAGCAAGATCCCTGCCACCTGCCGGGTCAAGCAGGGTGGGCGGG[TC]GGTGGCTGTGGCTGGGCGAGGTCTTGGTGCCGAGAG			
13734	IS	[TC]		AGCAGGGCCTGTGAGGCGGGGTTG	clg16335	2	
13735	I		A	CCAGCAAGGTGGCATCTGAGCCCCATACC			
13735	P	T	A	CGCGCCGAGGTGTCCTGCTGCTTTTGY			
13735	P	A	A	ATGACGTGGCAGACAGTCCTGCTGCTTTTG			
13735	T	T	A	TGCTCAAAAGCAGCAGGACAGTATGGGGCTCAGATGCCACCTTGCTGGCT			
13735	T	A	A	TGCTCAAAAGCAGCAGGACTGTATGGGGCTCAGATGCCACCTTGCTGGCT			
				AAGTTGTGCAGGCGCTACTAGGTCACTCCCAGCCAGCAAGGTGGCATCTGAGCCCCATAC[TA]GTCCTGCTGCTTTTGAGCACTCCTGGTCTCCATACTGC			
13735	IS	[TA]		CACCTGCACCTCCCACACGCAA	clg17944	8	
13737	I		S	GACACCACGCCACACTGGTGCCAT			
13737	P	C	S	ATGACGTGGCAGACGCCTCTGCAGAAGGGY			
13737	P	G	S	CGCGCCGAGGCCCTCTGCAGAAGGGY			
13737	T	C	S	GAGGCCCTTCTGCAGAGGCTGGCACCAGTGTGGCGTGGTGTCCC			
13737	T	G	S	GAGGCCCTTCTGCAGAGGGTGGCACCAGTGTGGCGTGGTGTCCC			
				CATCTCTTGGGTGTGGGAGCCCTGGGCGTGGGCCTGTCTGGGGAGGCCCTTCTGCAGAGG[CG]TGGCACCAGTGTGGCGTGGTGTCCCCGTTAACCCGG			
13737	IS	[CG]		GCAGTCCTGCCACTCTCAGCAGCT	clg15907	6	
13738	I		A	CCTGGTCTCTGGAAGATGAACTTAAAACCAGCTTCTCAAT			
13738	P	G	A	ATGACGTGGCAGACGGTGGTTCATTTACCACAY			
13738	P	A	A	CGCGCCGAGGAGTGGTTCATTTACCACACY			
13738	T	G	A	GTATGTGTGGTAAATGAACCACCTTGAGAAGCTGGTTTTAAGTTCATCTTCCAGAGACCAGGCC			
13738	T	A	A	GTATGTGTGGTAAATGAACCACTTTGAGAAGCTGGTTTTAAGTTCATCTTCCAGAGACCAGGCC			
				CTTCTTGCTCTGTTGAAAAGGCCTGGTCTCTGGAAGATGAACTTAAAACCAGCTTCTCAA[GA]GTGGTTCATTTACCACACATACTTCAGTGCTCTTTTCTGA			
13738	IS	[GA]		TTTCATGTCCCTTATCAAGG	clg22fin4	22	
13744	I		A	GCAGTCCAAGGTACCCCAGGGGTCAT			
13744	P	C	A	CGCGCCGAGGCTGGCCCTCTGTCTCY			
13744	P	G	A	ATGACGTGGCAGACGTGGCCCTCTGTCTCY			
13744	T	C	A	TGGGGAGACAGAGGGCCAGTGACCCCTGGGGTACCTTGGACTGCCA			
13744	T	G	A	TGGGGAGACAGAGGGCCACTGACCCCTGGGGTACCTTGGACTGCCA			
				GCGAGTGGGGTTAATAGTGTAAGGAACTCGAGTTGGCAGTCCAAGGTACCCCAGGGGTCA[CG]TGGCCCTCTGTCTCCCCAGCTTCTGCTCCGTAGCAGA			
13744	IS	[CG]		CAAACTGCAGTGGACGCTCGCAC			
13745	I		A	CCAAAGGCACCTCCTGCCATAACACCCTT			
13745	P	G	A	ATGACGTGGCAGACGGGCTCCTTCCAGTGY			
13745	P	A	A	CGCGCCGAGGAGGCTCCTTCCAGTGY			
13745	T	G	A	GAGGCACTGGAAGGAGCCCAGGGTGTTATGGCAGGAGGTGCCTTTGGGG			
13745	T	A	A	GAGGCACTGGAAGGAGCCTAGGGTGTTATGGCAGGAGGTGCCTTTGGGG			
				CAACGAGTGCTTCCAGGACCCAGGACCCTGCCCCAAAGGCACCTCCTGCCATAACACCCT[GA]GGCTCCTTCCAGTGCCTCTGCCCTGTGGGGCAGGAGG			
13745	IS	[GA]		GTCCACGTTGTGAGCTGCGGGCA	clg13206	14	NOTCH4
13747	I		S	TCCTGGCAAGTGCCCCCATTCTGACAA			
13747	P	G	S	ATGACGTGGCAGACCTGGTGGCTGACACAY			
13747	P	A	S	CGCGCCGAGGTTGGTGGCTGACACAY			
13747	T	G	S	CAACTGTGTCAGCCACCAGTGTCAGAATGGGGGCACTTGCCAGGATG			
13747	T	A	S	CAACTGTGTCAGCCACCAATGTCAGAATGGGGGCACTTGCCAGGATG			
				CCTGTCAGGTTTCATAGGCCCAGACTGTGAGGTGAATCCAGACAACTGTGTCAGCCACCA[GA]TGTCAGAATGGGGGCACTTGCCAGGATGGGCTGGACA			
13747	IS	[GA]		CCTACACCTGCCTCTGCCCAGAA	clg13206	14	
13749	I		A	CTGCGTGTGTGTGAGTGGCTGGGGT			
13749	P	C	A	CGCGCCGAGGCGGCACAAGCTGTGY			
13749	P	G	A	ATGACGTGGCAGACGGGCACAAGCTGTGY			
13749	T	C	A	TCCTCACAGCTTGTGCCGCCCCAGCCACTCACACACACGCAGTG			
13749	T	G	A	TCCTCACAGCTTGTGCCCCCCCAGCCACTCACACACACGCAGTG			
				CGGGGGCACCTGCCAGAACTCTGCTGGTAGCTTTCACTGCGTGTGTGTGAGTGGCTGGGG[CG]GGCACAAGCTGTGAGGAGAACCTGGATGACTGTATTG			
13749	IS	[CG]		CTGCCACCTGTGCCCCGGGATCC	clg14824	1	NOTCH4
13750	I		A	AGCACCAGGAGGACTGCTAGGAGCTTCAAT			
13750	P	G	A	ATGACGTGGCAGACGTGGCCTTTGAGAGCY			
13750	P	A	A	CGCGCCGAGGATGGCCTTTGAGAGCCY			
13750	T	G	A	GTGAGGCTCTCAAAGGCCACTTGAAGCTCCTAGCAGTCCTCCTGGTGCTTC			
13750	T	A	A	GTGAGGCTCTCAAAGGCCATTTGAAGCTCCTAGCAGTCCTCCTGGTGCTTC			

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FIGURE 129E



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FIGURE 129E

				GCGACCTGAACGAACAATAAGTGCTAGGTACACAGTTGGTGTCTAGTTTTTCTTTTCCTC[GA]ATGGAAATTGTTTCGTGTTGTAGCCCATTTAACACTTCCC			
13840	IS	[GA]		CCTCCCCCCACTCTAGTCTC	ctg16829	1	
13854	I		S	GGAACAGCCACGTGATCAAAGGATCCACAGTT			
13854	P	C	S	ATGACGTGGCAGACGGGAAAGTGGCAGGY			
13854	P	G	S	CGCGCCGAGGCGGAAAGTGGCAGGY			
13854	T	C	S	AATGCCTGCCACTTTCCCACTGTGGATCCTTTGATCACGTGGCTGTTCCAT			
13854	T	G	S	AATGCCTGCCACTTTCCGACTGTGGATCCTTTGATCACGTGGCTGTTCCAT			
				GGGCCCTTCAGTGGAATTTTTCCCGCCCACTTCCCATCTGGCCAATGCCTGCCACTTTCC[CG]ACTGTGGATCCTTTGATCACGTGGCTGTTCCATGGAGG			
13854	IS	[CG]		GTTCCCAAAGGGTCAAAGACTG	ctg13446	1	
13857	I		A	CCACTCTGAGCCTCTCTGAGACCATGTGGTTTTAAAAC			
13857	P	A	A	CGCGCCGAGGAATCCATAAGGGAAGGTACCY			
13857	P	T	A	ATGACGTGGCAGACTATCCATAAGGGAAGGTACCY			
13857	T	A	A	TGTGGGTACCTTCCCTTATGGATTTTTAAAACCACATGGTCTCAGAGAGGCTCAGAGTGGTT			
13857	T	T	A	TGTGGGTACCTTCCCTTATGGATATTTTAAAACCACATGGTCTCAGAGAGGCTCAGAGTGGTT			
				CTGGTTTTTACAGGGGTGTAAAACCACTCTGAGCCTCTCTGAGACCATGTGGTTTTAAAA[AT]ATCCATAAGGGAAGGTACCCACACCAGTATCTGAGTTCCA			
13857	IS	[AT]		GTAGCTAAGACCCTAGAATT	ctg15478	1	
13858	I		A	TCAGTCTCTCCTTGTAACCCTGAGATCATCAGACCAAGAAATAA			
13858	P	C	A	ATGACGTGGCAGACCAGATCCTGTTTATTTAGAACACY			
13858	P	T	A	CGCGCCGAGGTAGATCCTGTTTATTTAGAACACTY			
13858	T	C	A	CAGCAGTGTTCTAAATAAACAGGATCTGTATTTCTTGGTCTGATGATCTCAGGGTTACAAGGAGAGACTGAAA			
13858	T	T	A	CAGCAGTGTTCTAAATAAACAGGATCTATATTTCTTGGTCTGATGATCTCAGGGTTACAAGGAGAGACTGAAA			
				GATTCATCTCTGTTTTTTCAGTCTCTCCTTGTAACCCTGAGATCATCAGACCAAGAAATA[CT]AGATCCTGTTTATTTAGAACACTGCTGTTTGACATTTATAAT			
13858	IS	[CT]		TTTGATTATTCTAGCCTT	ctg15478	1	
13863	I		S	CCTGACTAGTAAACTCAGGAGAGGCCAATATTCTCAGCTCTTAT			
13863	P	T	S	CGCGCCGAGGAAATACTAAGTGCACCCTAAATY			
13863	P	C	S	ATGACGTGGCAGACGAATACTAAGTGCACCCTAAAY			
13863	T	T	S	CAAAATTTAGGGTGCACTTAGTATTTTAAGAGCTGAGAATATTGGCCTCTCCTGAGTTTACTAGTCAGGTG			
13863	T	C	S	CAAAATTTAGGGTGCACTTAGTATTCTAAGAGCTGAGAATATTGGCCTCTCCTGAGTTTACTAGTCAGGTG			
				AGAATGGGTTGACCATGACTACTACCAAATTCTCCCAAAATTTAGGGTGCACTTAGTATT[TC]TAAGAGCTGAGAATATTGGCCTCTCCTGAGTTTACTAGTC			
13863	IS	[TC]		AGGTGCTTTTTCCTTTCTTT			
13867	I		S	TGCATAAACCAGGCCCAATAAACATGCAGGTGTT			
13867	P	C	S	ATGACGTGGCAGACGGGAGGTCATCATGCAY			
13867	P	T	S	CGCGCCGAGGAGGAGGTCATCATGCAY			
13867	T	C	S	CACCTGCATGATGACCTCCCACACCTGCATGTTTATTGGGCCTGGTTTATGCATC			
13867	T	T	S	CACCTGCATGATGACCTCCTACACCTGCATGTTTATTGGGCCTGGTTTATGCATC			
				TGATTTCCCAGGGGCTTGAAAGTGGACACATGGAGGATGGGCACCTGCATGATGACCTCC[CT]ACACCTGCATGTTTATTGGGCCTGGTTTATGCATCCAA			
13867	IS	[CT]		GGATCAGGAAGTGTGAGGGTGG	ctg16282	1	
13874	I		S	CGGAGCTCGTCGCTGAGGGGACATT			
13874	P	T	S	CGCGCCGAGGAGTATGGCTTGGGAGGY			
13874	P	C	S	ATGACGTGGCAGACGGTATGGCTTGGGAGGY			
13874	T	T	S	CCGGCCTCCCAAGCCATACTATGTCCCCTCAGCGACGAGCTCCGTG			
13874	T	C	S	CCGGCCTCCCAAGCCATACCATGTCCCCTCAGCGACGAGCTCCGTG			
				TGGGCTATGGGGTGGCCTTTGCCCTCCCTCCCTGTGTGCCACCGGCCTCCCAAGCCATAC[TC]ATGTCCCCTCAGCGACGAGCTCCGTGAGGCCTGGCGT			
13874	IS	[TC]		ATTTTCACCCCACTGCTGCACCA	ctg17341	14	
13891	I		A	CATGCCACAGACCTCAATGACAAGAGTGTGCAGA			
13891	P	T	A	CGCGCCGAGGTGTGCCCTGGACTTTY			
13891	P	C	A	ATGACGTGGCAGACCGTGCCCTGGACTTY			
13891	T	T	A	TGGCAAAGTCCAGGGCACACTGCACACTCTTGTCATTGAGGTCTGTGGCATGGA			
13891	T	C	A	TGGCAAAGTCCAGGGCACGCTGCACACTCTTGTCATTGAGGTCTGTGGCATGGA			
				CAATCTAGGACCTTGGCAGGTGGCATCCATGCCACAGACCTCAATGACAAGAGTGTGCAG[TC]GTGCCCTGGACTTTGCCATCAGCGAGTACAACAAGGTC			
13891	IS	[TC]		ATTAATAAGGATGAGTACTACA	ctg15054	1	CST5
13892	I		A	GAAGCCCCAGGCAAGCCCAGTGAA			
13892	P	C	A	ATGACGTGGCAGACCTCAGTCACAGTGAAGTGY			
13892	P	T	A	CGCGCCGAGGTTCAGTCACAGTGAAGTGY			
13892	T	C	A	CAGGCACTTCACTGTGACTGAGTCACTGGGCTTGCCTGGGGCTTCAT			
13892	T	T	A	CAGGCACTTCACTGTGACTGAATCACTGGGCTTGCCTGGGGCTTCAT			
				GGTGGCTTGTGTGCCTTTTGGGTGACAGTGTGGGCATGAAGCCCCAGGCAAGCCCAGTGA[CT]TCAGTCACAGTGAAGTGCCTGCGTGTGCATGAAACTG			
13892	IS	[CT]		ACAGCATGCTGCCCCTGCTTCCT	ctg12823	16	
13897	I		A	CTGGGGTGGGGACGGGGGAAT			
13897	P	C	A	ATGACGTGGCAGACCGCTGCAAGCTATTCAY			
13897	P	A	A	CGCGCCGAGGAGCTGCAAGCTATTCACY			
13897	T	C	A	AGGGGTGAATAGCTTGCAGCGTTCCCCCGTCCCCACCCCAGCC			
13897	T	A	A	AGGGGTGAATAGCTTGCAGCTTTCCCCCGTCCCCACCCCAGCC			
				TCTCGCCTCCTCTCCCTCCGGCCGCGGGTGGGGGCCTGGGCTGGGGTGGGGACGGGGGAA[CA]GCTGCAAGCTATTCACCCCTTCCTGGCTTGGGGTG			
13897	IS	[CA]		GGGTTTATGTTCCAGAGACGGACGG	MULTIPLE	MULTIPLE	
13905	I		S	CGCAGATACAAAAGCAGTCTCACCTACTTTTGTGCCTCT			
13905	P	G	S	ATGACGTGGCAGACCGAATTGGAAGGAACTACGY			
13905	P	T	S	CGCGCCGAGGAGAATTGGAAGGAACTACGY			
13905	T	G	S	AGTTCGTAGTTCCTTCCAATTCGGAGGCACAAAAGTAGGTGAGACTGCTTTTGTATCTGCGAA			
13905	T	T	S	AGTTCGTAGTTCCTTCCAATTCTGAGGCACAAAAGTAGGTGAGACTGCTTTTGTATCTGCGAA			
				CCCCCTTCTCTCTCCCTCTCCCTCTCTCTCTAAATTGCAGTTCGTAGTTCCTTCCAATTC[GT]GAGGCACAAAAGTAGGTGAGACTGCTTTTGTATCTGCGAA			
13905	IS	[GT]		GTGCTTCACTCCTGAATGTA	ctg14637	5	
13912	I		A	TGCTGTGCACTTGTCCCTCCTTGTGTGTTT			
13912	P	G	A	ATGACGTGGCAGACGTCTGTGTCACTTGTATCTGY			
13912	P	A	A	CGCGCCGAGGATCTGTGTCACTTGTATCTGY			
13912	T	G	A	TCCTCAGATACAAGTGACACAGACAACACACAAGGAGGGACAAGTGCACAGCAGG			
13912	T	A	A	TCCTCAGATACAAGTGACACAGATAACACACAAGGAGGGACAAGTGCACAGCAGG			
				TCCCACCTCCCGAGGTCCTACTGGAAGTACCTGCTGTGCACTTGTCCCTCCTTGTGTGTT[GA]TCTGTGTCACTTGTATCTGAGGAAGGGAATTTCTCTGAT			
13912	IS	[GA]		TTCCTCAGATGTAGGGGAGAA	ctg21fin2	21	
13929	I		A	GGTTATCTCCACTCTGCAAATTGGAAAACAGATCCAGACAGC			
13929	P	G	A	ATGACGTGGCAGACGTTCAGTTATGTGTCTGAGAAY			
13929	P	T	A	CGCGCCGAGGTTTCAGTTATGTGTCTGAGAAGY			
13929	T	G	A	TGAACTTCTCAGACACATAACTGAACCTGTCTGGATCTGTTTTCCAATTTGCAGAGTGGAGATAACCTG			
13929	T	T	A	TGAACTTCTCAGACACATAACTGAAACTGTCTGGATCTGTTTTCCAATTTGCAGAGTGGAGATAACCTG			
				ACAGGAACCCCAGGAGACAGGTTATCTCCACTCTGCAAATTGGAAAACAGATCCAGACAG[GT]TTCAGTTATGTGTCTGAGAAGTTCATTTATGTGTCCAAG			
13929	IS	[GT]		ACACATTCTTAGCTAAAAAGC	ctg14945	16	
13933	I		S	CGTTGGTCATGGTCTGGAGTCTCGGAGTCCT			
13933	P	T	S	CGCGCCGAGGAGGCGATGGCCACY			
13933	P	C	S	ATGACGTGGCAGACGGGCGATGGCCAY			
13933	T	T	S	CATCGTGGCCATCGCCTGGACTCCGAGACTCCAGACCATGACCAACGTG			
13933	T	C	S	CATCGTGGCCATCGCCCGGACTCCGAGACTCCAGACCATGACCAACGTG			
				CTGGCGCTGGCGGTGCTGGCCACCGTGGGAGGCAACCTGCTGGTCATCGTGGCCATCGCC[TC]GGACTCCGAGACTCCAGACCATGACCAACGTGTTCG			
13933	IS	[TC]		TGACTTCGCTGGCCGCAGCCGACC	ctg15361	6	ADRB3
13937	I		A	AGGATCTTTGTCGTTCTATAAACTGCAGGTATGAAAATGAAAGTCTTCAGAT			
13937	P	G	A	ATGACGTGGCAGACGTGGAAGGAAGTCAACTGY			
13937	P	A	A	CGCGCCGAGGATGGAAGGAAGTCAACTGAY			
13937	T	G	A	AAATTCAGTTGACTTCCTTCCACTCTGAAGACTTTCATTTTCATACCTGCAGTTTATAGAACGACAAAGATCCTGA			
13937	T	A	A	AAATTCAGTTGACTTCCTTCCATTCTGAAGACTTTCATTTTCATACCTGCAGTTTATAGAACGACAAAGATCCTGA			

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FIGURE 129E

				TTTTTAATCAGGATCTTTGTCGTTCTATAAACTGCAGGTATGAAAATGAAAGTCTTCAGA[GA]TGGAAGGAAGTCAACTGAATTTCCAAGAAAAATACGTGAAC			
13937	IS	[GA]		AGGTGATAGAAAATATCCA	ctg16733	3	
13942	I		A	CAGCCAGGCTGGTATTTTCCAAAGGCAGAGAA			
13942	P	C	A	ATGACGTGGCAGACCGGTCCCTGCCCY			
13942	P	T	A	CGCGCCGAGGTGGTCCCTGCCCAY			
13942	T	C	A	CTTCTGGGCAGGGACCGTCTCTGCCTTTGGAAAATACCAGCCTGGCTGCC			
13942	T	T	A	CTTCTGGGCAGGGACCATCTCTGCCTTTGGAAAATACCAGCCTGGCTGCC			
				TTTCCCTGCTGAGGGTTTGTAACGTCTGGCAGCCAGGCTGGTATTTTCCAAAGGCAGAGA[CT]GGTCCCTGCCCAGAAGCTGTGATTTCAGGGGGCCAGG			
13942	IS	[CT]		AGTGGCACCCTACCATCTCCTCA	ctg15907	6	
13945	I		S	GAAACCGAGACACAGGAGGCTTATGTAAGATGTCCAATGC			
13945	P	A	S	CGCGCCGAGGTCATACAGCAATTAACTGGTY			
13945	P	C	S	ATGACGTGGCAGACGCATACAGCAATTAACTGGY			
13945	T	A	S	CTCCACCAGTTAATTGCTGTATGACATTGGACATCTTACATAAGCCTCCTGTGTCTCGGTTTCCT			
13945	T	C	S	CTCCACCAGTTAATTGCTGTATGCCATTGGACATCTTACATAAGCCTCCTGTGTCTCGGTTTCCT			
				TTTCCAGAAATTATCCTTTCCTCCCTCTTCCTTCTGGCTCCACCAGTTAATTGCTGTATG[AC]CATTGGACATCTTACATAAGCCTCCTGTGTCTCGGTTTCCT			
13945	IS	[AC]		TATTTGTAAAATGGAGCGT	ctg14243	19	
13946	I		A	CCTCATAAGGTCACTGGGGGCTTAAAGGAGAGGT			
13946	P	G	A	ATGACGTGGCAGACGTGCAGAGAAGGAACCTY			
13946	P	A	A	CGCGCCGAGGATGCAGAGAAGGAACCTY			
13946	T	G	A	GTGGAGGTTCCTTCTCTGCACCCTCTCCTTTAAGCCCCCAGTGACCTTATGAGGTA			
13946	T	A	A	GTGGAGGTTCCTTCTCTGCATCCTCTCCTTTAAGCCCCCAGTGACCTTATGAGGTA			
				TGTAAAATGGAGCGTAATAAACACCTACCTCATAAGGTCACTGGGGGCTTAAAGGAGAGG[GA]TGCAGAGAAGGAACCTCCACAGAACCTGGCACCTTGTA			
13946	IS	[GA]		TGAACTGGCTAGGGGTTGGCTC	ctg17241	X	
13947	I		S	GCTTCAAAACAAATATGATATCTTGCTAAATAGAACATTCGTAAAAGATCCATAAGT			
13947	P	G	S	CGCGCCGAGGCAAATAATGAACTAGAAATAAATTGAAAGAY			
13947	P	C	S	ATGACGTGGCAGACGAAATAATGAACTAGAAATAAATTGAAAGAY			
13947	T	G	S	TCAATCTTTCAATTTATTTCTAGTTCATTATTTGCTTATGGATCTTTTACGAATGTTCTATTTAGCAAGATATCATATTTGTTTTGAAGCTT			
13947	T	C	S	TCAATCTTTCAATTTATTTCTAGTTCATTATTTCCTTATGGATCTTTTACGAATGTTCTATTTAGCAAGATATCATATTTGTTTTGAAGCTT			
				AACATTATATGTGAGTACATCACTATGTCAATCTTTCAATTTATTTCTAGTTCATTATTT[GC]CTTATGGATCTTTTACGAATGTTCTATTTAGCAAGATATCATA			
13947	IS	[GC]		TTTGTTTTGAAGCTTGG	ctg15907	6	
13950	I		S	CCAGCACCTGGCCCTTCAGCCCA			
13950	P	G	S	ATGACGTGGCAGACCGCATAGAAGTTGAAGCCY			
13950	P	A	S	CGCGCCGAGGTGCATAGAAGTTGAAGCCY			
13950	T	G	S	AGGTGGCTTCAACTTCTATGCGGGGCTGAAGGGCCAGGTGCTGGTG			
13950	T	A	S	AGGTGGCTTCAACTTCTATGCAGGGCTGAAGGGCCAGGTGCTGGTG			
				AGGGGTGCCCCTTCGGCGGCACTTTAATTCCAACTTTAAAGGTGGCTTCAACTTCTATGC[GA]GGGCTGAAGGGCCAGGTGCTGGTGCTGCGGACAACTTC			
13950	IS	[GA]		AACTGTCTACAATTATGATTAC	ctg15907	6	ABP1
13954	I		S	CCTACACACATGGCCCTGTGCCTCCCA			
13954	P	A	S	CGCGCCGAGGTGCAAGAAGCAGCACY			
13954	P	G	S	ATGACGTGGCAGACCGCAAGAAGCAGCACY			
13954	T	A	S	CTGTGTGCTGCTTCTTGCAGGGAGGCACAGGGCCATGTGTGTAGGAA			
13954	T	G	S	CTGTGTGCTGCTTCTTGCGGGGAGGCACAGGGCCATGTGTGTAGGAA			
				GGAGCCTCACTGGGGCAGACAATAAACCCTCAGAGCCTCGCTCTGTGTGCTGCTTCTTGC[AG]GGGAGGCACAGGGCCATGTGTGTAGGAAACACACGAA			
13954	IS	[AG]		CAGACGTGCACACACACACAGAC	ctg15907	6	
13957	I		A	AGACATGTGTTCCCCAATCTTCTTGCCTACTGTGTCT			
13957	P	G	A	ATGACGTGGCAGACGCCTGGGAAGAGTAAAACY			
13957	P	A	A	CGCGCCGAGGACCTGGGAAGAGTAAAACY			
13957	T	G	A	ATAGGTTTTACTCTTCCCAGGCGACACAGTAGGCAAGAAGATTGGGGAACACATGTCTGG			
13957	T	A	A	ATAGGTTTTACTCTTCCCAGGTGACACAGTAGGCAAGAAGATTGGGGAACACATGTCTGG			
				CAGTGTCAAGAGTCCAGGAATGCCAGACATGTGTTCCCCAATCTTCTTGCCTACTGTGTC[GA]CCTGGGAAGAGTAAAACCTATTGTGAAGTGAATGCTTTC			
13957	IS	[GA]		CATCCCTGTCTTAAGGGTCTG	ctg15907	6	
13959	I		A	CCACAGAAAAGATGAATGCCTCCACACTTCCTTTTGGAAAC			
13959	P	T	A	CGCGCCGAGGTAAATCATAAAGCAATCATGTACATY			
13959	P	G	A	ATGACGTGGCAGACGAAATCATAAAGCAATCATGTACAY			
13959	T	T	A	TAAAATGTACATGATTGCTTTATGATTTATTTCCAAAAGGAAGTGTGGAGGCATTCATCTTTTCTGTGGTT			
13959	T	G	A	TAAAATGTACATGATTGCTTTATGATTTCTTTCCAAAAGGAAGTGTGGAGGCATTCATCTTTTCTGTGGTT			
				TATAACCAGCAGGAATAGAACCACAGAAAAGATGAATGCCTCCACACTTCCTTTTGGAAA[TG]AAATCATAAAGCAATCATGTACATTTTAAGAGGCACTCAG			
13959	IS	[TG]		CTGATGTGGTGAAGTGTACA			
13966	I		A	CCCTGACCCTGGCATCCTGGCTCATTC			
13966	P	G	A	ATGACGTGGCAGACGTTAGTTCGTCTCATCACTTY			
13966	P	T	A	CGCGCCGAGGTTTAGTTCGTCTCATCACTTGY			
13966	T	G	A	GTTCCAAGTGATGAGACGAACTAACAATGAGCCAGGATGCCAGGGTCAGGGGT			
13966	T	T	A	GTTCCAAGTGATGAGACGAACTAAAAATGAGCCAGGATGCCAGGGTCAGGGGT			
				TTCCTGCAGCCTCCTTAGAACCCCATGTTGACACCCCTGACCCTGGCATCCTGGCTCATT[GT]TTAGTTCGTCTCATCACTTGGAACCTGTCTGATTCACCT			
13966	IS	[GT]		CACTCTCTTCTCCCCAACCCT	ctg15907	6	
13970	I		A	CCCCCTAACTGCATCACCTTTTCCCTA			
13970	P	T	A	CGCGCCGAGGTAAGCTTTTTAATTCCTATGAGGY			
13970	P	C	A	ATGACGTGGCAGACCAAGCTTTTTAATTCCTATGAGGY			
13970	T	T	A	GGGGCCTCATAGGAATTAAAAAGCTTAAGGGAAAAGGTGATGCAGTTAGGGGGTA			
13970	T	C	A	GGGGCCTCATAGGAATTAAAAAGCTTGAGGGAAAAGGTGATGCAGTTAGGGGGTA			
				GGGTGTCTCCTCTTTTATCATCCTCAATGTTTTACCCCCTAACTGCATCACCTTTTCCCT[TC]AAGCTTTTTAATTCCTATGAGGCCCCTTCCACTTCCCCTAT			
13970	IS	[TC]		CCCCTTAGGCCCACCCCCA	ctg15907	6	
13986	I		S	CGAAGGATGGGCTCAGGAGCCCCAT			
13986	P	T	S	CGCGCCGAGGATGTGCTCTACCACACAY			
13986	P	C	S	ATGACGTGGCAGACGTGTGCTCTACCACACY			
13986	T	T	S	CACCTGTGTGGTAGAGCACATTGGGGCTCCTGAGCCCATCCTTCGGG			
13986	T	C	S	CACCTGTGTGGTAGAGCACACTGGGGCTCCTGAGCCCATCCTTCGGG			
				TCTCCCATTTAGCCTTAACCCCCTCTTACGGGGACACTTACACCTGTGTGGTAGAGCACA[TC]TGGGGCTCCTGAGCCCATCCTTCGGGACTGGAGTAAGT			
13986	IS	[TC]		GTATGGCAGATGGATGGAATTA	ctg15907	6	
13988	I		S	GGCTAGAATAGTGTATTACAATTTGGGGTTCTGAAAATATGATTGCCAAATTTACAC			
13988	P	A	S	CGCGCCGAGGTCCTCATTTCAAAGCAAGCY			
13988	P	C	S	ATGACGTGGCAGACGCCTCATTTCAAAGCAAGY			
13988	T	A	S	GCGTGCTTGCTTTGAAATGAGGATGTAAATTTGGCAATCATATTTTCAGAACCCCAAATTGTAATACACTATTCTAGCCTC			
13988	T	C	S	GCGTGCTTGCTTTGAAATGAGGCTGTAAATTTGGCAATCATATTTTCAGAACCCCAAATTGTAATACACTATTCTAGCCTC			
				CTGATGTTGCTGCGTCTATGTTTGAGGGTGAGAGGGGAGCGTGCTTGCTTTGAAATGAGG[AC]TGTAAATTTGGCAATCATATTTTCAGAACCCCAAATTGT			
13988	IS	[AC]		AATACACTATTCTAGCCTCCT	ctg25099	7	
13991	I		A	GCTGACCTGGAGGCCCAGGTTGAGTT			
13991	P	C	A	ATGACGTGGCAGACCCCTGAAGGAGGAGCY			
13991	P	A	A	CGCGCCGAGGACCTGAAGGAGGAGCY			
13991	T	C	A	ATCAGCTCCTCCTTCAGGGACTCAACCTGGGCCTCCAGGTCAGCCT			
13991	T	A	A	ATCAGCTCCTCCTTCAGGTACTCAACCTGGGCCTCCAGGTCAGCCT			
				TGCGCAGGATCCTGGATGATCTCACTCTGTGCAAGGCTGACCTGGAGGCCCAGGTTGAGT[CA]CCTGAAGGAGGAGCTGATGTGCCTCAAAAAGAACCAT			
13991	IS	[CA]		GAGGAGGTGAGGCTGGAAGTCCC	ctg19247	7	
13992	I		S	AGAGTTGACCAAGTGGCAGGTGTTTCATACCCAA			
13992	P	A	S	CGCGCCGAGGTGCCTTGGGGATTTCCY			
13992	P	G	S	ATGACGTGGCAGACCGCCTTGGGGATTTCY			
13992	T	A	S	TCATGGAAATCCCCAAGGCATGGGTATGAAACACCTGCCACTTGGTCAACTCTCA			

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FIGURE 129E

13992 T	G	S	TCATGGAAATCCCCAAGGCGTGGGTATGAAACACCTGCCACTTGGTCAACTCTCA			
13992 IS	[AG]		CACGCAGGGTTATTGTGAGGATTTAATGGACAGGATATGGATCATGGAAATCCCCAAGGC[AG]TGGGTATGAAACACCTGCCACTTGGTCAACTCTCAGAA GTGTAGCCCCCTTCCCTTCTGC	MULTIPLE	12	
13994 I		S	GCAGGATTGTGTAGGTACTATTAATAAAGCTGCTTTTCATCCTAAGCTCA			
13994 P	G	S	ATGACGTGGCAGACCGGACAGGCCATGAY			
13994 P	A	S	CGCGCCGAGGTGGACAGGCCATGACY			
13994 T	G	S	GGAGGTCATGGCCTGTCCGGAGCTTAGGATGAAAAGCAGCTTTATTAATAGTACCTACACAATCCTGCTC			
13994 T	A	S	GGAGGTCATGGCCTGTCCAGAGCTTAGGATGAAAAGCAGCTTTATTAATAGTACCTACACAATCCTGCTC			
13994 IS	[GA]		TGTCATTTCCATATGTTTAGGGAGATAGGCAGACAGGTGACTGGAGGTCATGGCCTGTCC[GA]GAGCTTAGGATGAAAAGCAGCTTTATTAATAGTACCTAC ACAATCCTGCTCCCACCTCTT	ctg15064	7	
13997 I		A	ACTTCAGAAGGGCTGGTTTGTCCGAAAAGTGAGAGT			
13997 P	G	A	ATGACGTGGCAGACGAGGCGGAGGAGAGY			
13997 P	A	A	CGCGCCGAGGAAGGCGGAGGAGAGY			
13997 T	G	A	TCACCTCTCCTCCGCCTCCTCTCACTTTTCGGACAAACCAGCCCTTCTGAAGTCC			
13997 T	A	A	TCACCTCTCCTCCGCCTTCTCTCACTTTTCGGACAAACCAGCCCTTCTGAAGTCC			
13997 IS	[GA]		ACAGGAACAGCCCAGGAACCCAGGGACTTCAGAAGGGCTGGTTTGTCCGAAAAGTGAGAG[GA]AGGCGGAGGAGAGGTGAGGAGAGCAAGTGCAAGAAG AGACCAGAAAGTGCAGGGGGCGGG	ctg14033	7	
14002 I		A	CCCCCATAGGGCAGAGGGTTTTCACTACTTTTA			
14002 P	T	A	CGCGCCGAGGTAGTCATGGCTCCTCAGY			
14002 P	C	A	ATGACGTGGCAGACCAGTCATGGCTCCTCAY			
14002 T	T	A	TTCTCTGAGGAGCCATGACTAAAAAGTAGTGAAAACCCTCTGCCCTATGGGGGCC			
14002 T	C	A	TTCTCTGAGGAGCCATGACTGAAAAGTAGTGAAAACCCTCTGCCCTATGGGGGCC			
14002 IS	[TC]		CAGCTTGTTCTTCCTTATGCTTATGGGGCCCCCATAGGGCAGAGGGTTTTCACTACTTTT[TC]AGTCATGGCTCCTCAGAGAATCAGATGGCAACTCTGGGC TCTTTCTTCAGAAAAACATAA	ctg13010	2	
14016 I		S	GTCCGGGCCCAGGGGCTCCT			
14016 P	C	S	ATGACGTGGCAGACGCACAGCAGGTGAGY			
14016 P	T	S	CGCGCCGAGGACACAGCAGGTGAGGY			
14016 T	C	S	AGAGCCTCACCTGCTGTGCGGAGCCCCTGGGCCCGGACGC			
14016 T	T	S	AGAGCCTCACCTGCTGTGTGGAGCCCCTGGGCCCGGACGC			
14016 IS	[CT]		TCCAAAGCACGAAGCACGGGCAGCCCAAGGAGATGGGGCAGGAGAGCCTCACCTGCTGTG[CT]GGAGCCCCTGGGCCCGGACGCTCAGGTCCCTTTATA GAGGAAGCGGCAGTGGCAGCGTGG	ctg15684	5	
14017 I		S	CAGCTCACACCCCAGCTGCTCAACCT			
14017 P	C	S	ATGACGTGGCAGACGCCTCCTCTCTGAATTGAY			
14017 P	T	S	CGCGCCGAGGACCTCCTCTCTGAATTGAY			
14017 T	C	S	ACAGTCAATTCAGAGAGGAGGCGGTTGAGCAGCTGGGGTGTGAGCTGGA			
14017 T	T	S	ACAGTCAATTCAGAGAGGAGGTGGTTGAGCAGCTGGGGTGTGAGCTGGA			
14017 IS	[CT]		GCCAGGGAGTGGGGTCAGGCCTAGAGTTCCAAAGAAGGGACAGTCAATTCAGAGAGGAGG[CT]GGTTGAGCAGCTGGGGTGTGAGCTGGAGGCCCGGTT CCCTGAAGAGCAATCATATATAAC			
14018 I		S	ACCCTCACAAGGTAGGCATTATTATCATCCCAGTTTCACAT			
14018 P	C	S	ATGACGTGGCAGACGAGGAGGACATCGAGGY			
14018 P	T	S	CGCGCCGAGGAAGGAGGACATCGAGGY			
14018 T	C	S	GTAGCCTCGATGTCCTCCTCTGTGAAACTGGGATGATAATAATGCCTACCTTGTGAGGGTTG			
14018 T	T	S	GTAGCCTCGATGTCCTCCTTTGTGAAACTGGGATGATAATAATGCCTACCTTGTGAGGGTTG			
14018 IS	[CT]		TCACTTGCTGGCTGTGAAACCAGGACAAGCTACTTAACTTGGTAGCCTCGATGTCCTCCT[CT]TGTGAAACTGGGATGATAATAATGCCTACCTTGTGAGGG TTGCTTCAATGATTAGGAATC	ctg15907	6	
14019 I		A	AGAGTTATCTGGAGACTGAAGTCTAATTTATCTTCCTCCCCCCT			
14019 P	C	A	CGCGCCGAGGCCAACTTTTAGTCCAGCATY			
14019 P	G	A	ATGACGTGGCAGACGCAACTTTTAGTCCAGCAY			
14019 T	C	A	ACTCATGCTGGACTAAAAGTTGGGGGGGGAGGAAGATAAATTAGACTTCAGTCTCCAGATAACTCTAC			
14019 T	G	A	ACTCATGCTGGACTAAAAGTTGCGGGGGGAGGAAGATAAATTAGACTTCAGTCTCCAGATAACTCTAC			
14019 IS	[CG]		GGCATGGTGAAAAAGGTAGAGTTATCTGGAGACTGAAGTCTAATTTATCTTCCTCCCCCC[CG]CAACTTTTAGTCCAGCATGAGTGCATCCCTCAGGCCATT CTGGGAATGGATGTCCTGTGC			
14022 I		A	TGTGTCGGGAGTAAAGGTTCGGGCTAGTGTGT			
14022 P	C	A	CGCGCCGAGGCGTGCGGGCGCY			
14022 P	G	A	ATGACGTGGCAGACGGTGCGGGCGCY			
14022 T	C	A	ACCCGCGCCCGCACGCACACTAGCCCGAACCTTTACTCCCGACACAGC			
14022 T	G	A	ACCCGCGCCCGCACCCACACTAGCCCGAACCTTTACTCCCGACACAGC			
14022 IS	[CG]		GGTATGGGGTATAAAGTGCAGACTGCGGCTGTGTCGGGAGTAAAGGTTCGGGCTAGTGTG[CG]GTGCGGGCGCGGGTGACCCCACCTTTAGGGAAGCCG GCGCCCAACTATCCAGGCAGTAGC	ctg16920	19	
14023 I		A	AGCATGGTGCCTAGAAAGAGCCTGGCATTA			
14023 P	C	A	ATGACGTGGCAGACCGGAGTCTGGAGTTCTY			
14023 P	T	A	CGCGCCGAGGTGGAGTCTGGAGTTCTGY			
14023 T	C	A	AGAACAGAACTCCAGACTCCGAATGCCAGGCTCTTTCTAGGCACCATGCTGT			
14023 T	T	A	AGAACAGAACTCCAGACTCCAAATGCCAGGCTCTTTCTAGGCACCATGCTGT			
14023 IS	[CT]		CTCACTGCAATCTACCAAGTTCTGGGAAGACAGCATGGTGCCTAGAAAGAGCCTGGCATT[CT]GGAGTCTGGAGTTCTGTTCTCTTAGTTCTGGTCTTCCTG AAAACTCATCACGTGACTCCA	ctg22fin4	22	
14024 I		S	CAGGGCACACAAATGGGGCGGGT			
14024 P	C	S	ATGACGTGGCAGACGGCTGCAGTTTGTGCY			
14024 P	G	S	CGCGCCGAGGCGCTGCAGTTTGTGCY			
14024 T	C	S	GCCCGCACAAACTGCAGCCCCCGCCCCATTTGTGTGCCCTGCC			
14024 T	G	S	GCCCGCACAAACTGCAGCGCCCGCCCCATTTGTGTGCCCTGCC			
14024 IS	[CG]		TGCCTTCCCTGTCTTCCTGCGGCCTCCTGCGGTCCTAGTGCAGCCCGCACAAACTGCAGC[CG]CCCGCCCCATTTGTGTGCCCTGCCCAGGGGGCCGGTT CTGAGAGCGGGTGACCCAGATGG			KRTHA5
14028 I		S	TGGTACGACTTAGCCTCAACAGTTACGGGAGCAAAATTATAGT			
14028 P	T	S	CGCGCCGAGGAGAGTCATTATCTTGATTTAAATAACAAY			
14028 P	G	S	ATGACGTGGCAGACCGAGTCATTATCTTGATTTAAATAACAY			
14028 T	T	S	GCTTTTGTTATTTAAATCAAGATAATGACTCTCTATAATTTTGCTCCCGTAACTGTTGAGGCTAAGTCGTACCAAT			
14028 T	G	S	GCTTTTGTTATTTAAATCAAGATAATGACTCGCTATAATTTTGCTCCCGTAACTGTTGAGGCTAAGTCGTACCAAT			
14028 IS	[TG]		CCAATGAATGGTCACTGTCACTGGGTTTTGCTTTTGTTATTTAAATCAAGATAATGACTC[TG]CTATAATTTTGCTCCCGTAACTGTTGAGGCTAAGTCGTACC AATTTCCCCATTCCCCTTG	ctg15064	7	
14029 I		A	GGAGTGGGCAAGTTGGGAGGGGCT			
14029 P	A	A	CGCGCCGAGGAGGCGCTCATTCTCCY			
14029 P	G	A	ATGACGTGGCAGACGGGCGCTCATTCTCY			
14029 T	A	A	TACAGGAGAATGAGCGCCTGCCCCTCCCAACTTGCCCACTCCCC			
14029 T	G	A	TACAGGAGAATGAGCGCCCGCCCCTCCCAACTTGCCCACTCCCC			
14029 IS	[AG]		TCTGTCAGTGCAGAGAAATTGTGCTTCCACGGTGAGGGGAGTGGGCAAGTTGGGAGGGGC[AG]GGCGCTCATTCTCCTGTACCTGTCTTGCGAAAGTGGT TGGTGGTAACCTGATTTCCCATC	ctg15064	7	
14033 I		S	CCCATGTTGCAGAAAGAAGGAGCTGGAGGAGAT			
14033 P	T	S	CGCGCCGAGGACAGACTGTATTGTACCCTAY			
14033 P	G	S	ATGACGTGGCAGACCCAGACTGTATTGTACCCTY			
14033 T	T	S	GGAGTAGGGTACAATACAGTCTGTTCTCCTCCAGCTCCTTCTTTCTGCAACATGGGGA			
14033 T	G	S	GGAGTAGGGTACAATACAGTCTGGTCTCCTCCAGCTCCTTCTTTCTGCAACATGGGGA			
14033 IS	[TG]		TTGCTTTGGGAAGTGTTTGGGACCAGATGGATTGTAGGGAGTAGGGTACAATACAGTCTG[TG]TCTCCTCCAGCTCCTTCTTTCTGCAACATGGGGAAGAAC AAACTCCTTCATCCAAGTCTG	ctg17207	19	
14038 I		S	ACATGGCCCTAATTTCCCACCCAGGTTTTTTGTTTTTTTC			
14038 P	A	S	CGCGCCGAGGTTTTTTTTTTTTTTTTTTTTGGTATGTGY			
14038 P	C	S	ATGACGTGGCAGACGTTTTTTTTTTTTTTTTTTGGTATGTGY			
14038 T	A	S	ACAACACATACCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACCTGGGTGGGAAATTAGGGCCATGTGG			
14038 T	C	S	ACAACACATACCAAAAAAAAAAAAAAAAAAAAACAAAAAAAACAAAAAACCTGGGTGGGAAATTAGGGCCATGTGG			

FIGURE 129E

				TAGCTTTATTGCTAAGCGGAGAAAGAAAAACAACACATACCAAAAAAAAAAAAAAAAAAAA[AC]AAAAAAAACAAAAAACCTGGGTGGGAAATTAGGGCCATGT			
14038	IS	[AC]		GGCATGAAAAGGAAGACCCA	ctg25099	7	
14041	I		A	GAATGACACACTTCCAAAAACCAATTCGTAGCTTTCTAAATAAAACCCTTTCC			
14041	P	T	A	CGCGCCGAGGTAGCTGGAGAGAGATCCAY			
14041	P	A	A	ATGACGTGGCAGACAAGCTGGAGAGAGATCCY			
14041	T	T	A	CTCATGGATCTCTCTCCAGCTAGAAAGGGTTTTATTTAGAAAGCTACGAATTGGTTTTTGGAAGTGTGTCATTCGC			
14041	T	A	A	CTCATGGATCTCTCTCCAGCTTGAAAGGGTTTTATTTAGAAAGCTACGAATTGGTTTTTGGAAGTGTGTCATTCGC			
				GAAGAAGCGAATGACACACTTCCAAAAACCAATTCGTAGCTTTCTAAATAAAACCCTTTC[TA]AGCTGGAGAGAGATCCATGAGCATAGAGATCTTAAAATTC			
14041	IS	[TA]		ATGTTCAGCAATAAATCCTG			
14046	I		A	ACTGTTTTTATGTGCCAGGCACTATTCTAACTACTTTACAAAAAA			
14046	P	C	A	ATGACGTGGCAGACCGTTATCTTATTCTGTTTAACTCCY			
14046	P	T	A	CGCGCCGAGGTGTTATCTTATTCTGTTTAACTCCTY			
14046	T	C	A	CATAAGGAGTTAAACAGAATAAGATAACGTTTTTGTAAAGTAGTTAGAATAGTGCCTGGCACATAAAAACAGTAC			
14046	T	T	A	CATAAGGAGTTAAACAGAATAAGATAACATTTTTGTAAAGTAGTTAGAATAGTGCCTGGCACATAAAAACAGTAC			
				ATAAAAATACTCATGTACTGTTTTTATGTGCCAGGCACTATTCTAACTACTTTACAAAAA[CT]GTTATCTTATTCTGTTTAACTCCTTATGCACATGATCTCTCT			
14046	IS	[CT]		TTTCAGGAATGGCAAAAC	ctg19175	19	
14048	I		S	GCAGGAATGAAGATGGTCTGCTTCACGACATACAAAGGT			
14048	P	C	S	ATGACGTGGCAGACGATGGTGACCAGCAGAY			
14048	P	T	S	CGCGCCGAGGAATGGTGACCAGCAGAY			
14048	T	C	S	TGATTCTGCTGGTCACCATCCCTTTGTATGTCGTGAAGCAGACCATCTTCATTCCTGCCC			
14048	T	T	S	TGATTCTGCTGGTCACCATTCCTTTGTATGTCGTGAAGCAGACCATCTTCATTCCTGCCC			
				GGCAAACATTGCCATTGGCATCTCCCTGGCAATATGGCTGCTGATTCTGCTGGTCACCAT[CT]CCTTTGTATGTCGTGAAGCAGACCATCTTCATTCCTGCC			
14048	IS	[CT]		CTGAACATCACGACCTGTCAT	ctg53	14	F2RL1
14051	I		S	GGCAGGGAGAAAAAGGTTCCTTCAGACAGACTTT			
14051	P	G	S	ATGACGTGGCAGACCTCTGGGTCTATCTTATTTATAGATTY			
14051	P	T	S	CGCGCCGAGGATCTGGGTCTATCTTATTTATAGATTTY			
14051	T	G	S	AGTCAAATCTATAAATAAGATAGACCCAGAGAAGTCTGTCTGAAGGAACCTTTTTCTCCCCTGCCCC			
14051	T	T	S	AGTCAAATCTATAAATAAGATAGACCCAGATAAGTCTGTCTGAAGGAACCTTTTTCTCCCCTGCCCC			
				CTGATTCAACTTTATATTTGTGTGGTTCCCAGTCAAATCTATAAATAAGATAGACCCAGA[GT]AAGTCTGTCTGAAGGAACCTTTTTCTCCCCTGCCCCCAAA			
14051	IS	[GT]		GGGAACAGTTGAAGAATGTT	ctg15128	17	
14054	I		S	GCAGGGTCCCATGAGACAAGTGAGATACCTGAT			
14054	P	C	S	ATGACGTGGCAGACGGAAGTTCCTGCCAAATY			
14054	P	T	S	CGCGCCGAGGAGAAGTTCCTGCCAAATCY			
14054	T	C	S	GCCAGATTTGGCAGGAACTTCCTCAGGTATCTCACTTGTCTCATGGGACCCTGCAG			
14054	T	T	S	GCCAGATTTGGCAGGAACTTCTTCAGGTATCTCACTTGTCTCATGGGACCCTGCAG			
				AAAGGAAAAGCCTACCTGCCTGCCCCTTTAAGGCAGTTTGCCAGATTTGGCAGGAACTTC[CT]TCAGGTATCTCACTTGTCTCATGGGACCCTGCAGGCTCC			
14054	IS	[CT]		TAGATAAGATTGCTGGATCCC	ctg15907	6	
14059	I		S	CAGGGGGTTCCTTGTCAGGGGCTCTA			
14059	P	G	S	ATGACGTGGCAGACCCTGTGCATTGTGGGY			
14059	P	A	S	CGCGCCGAGGTCTGTGCATTGTGGGAY			
14059	T	G	S	GCCATCCCACAATGCACAGGAGAGCCCCTGACAAGGAACCCCCTGGC			
14059	T	A	S	GCCATCCCACAATGCACAGAAGAGCCCCTGACAAGGAACCCCCTGGC			
				GGGGACACAGGCAATGTCATGTAGTGTGGGGGGTGCTGCTAGCCATCCCACAATGCACAG[GA]AGAGCCCCTGACAAGGAACCCCCTGGCGCCAAGTGTC			
14059	IS	[GA]		AGCAGTGCCTTGGGTGAGAAAGA	ctg15064	7	
14063	I		A	GCTGAGGCACTTCGACGTCCTGTTCGCT			
14063	P	G	A	ATGACGTGGCAGACGGAGTTTGAGCTCAGGTY			
14063	P	A	A	CGCGCCGAGGAGAGTTTGAGCTCAGGTAY			
14063	T	G	A	GCAGTACCTGAGCTCAAACTCCGCGAACAGGACGTCGAAGTGCCTCAGCGC			
14063	T	A	A	GCAGTACCTGAGCTCAAACTCTGCGAACAGGACGTCGAAGTGCCTCAGCGC			
				CCTGAACACCTACACAGAGAAGATGAGGGAAGCGCTGAGGCACTTCGACGTCCTGTTCGC[GA]GAGTTTGAGCTCAGGTACTGCAGCTGTGGGTCCACAG			
14063	IS	[GA]		CCCTGGCTGTATGAGCTGGGGGA	ctg15064	7	
14082	I		A	GTCTGGTTTAAAGGAGAAATCAATACTGTTATTCCTCTCCAAAT			
14082	P	G	A	ATGACGTGGCAGACGATTAAGCCCAGTCTAGGAY			
14082	P	A	A	CGCGCCGAGGAATTAAGCCCAGTCTAGGAY			
14082	T	G	A	CTCTTCCTAGACTGGGCTTAATCTTTGGAGAGGAATAACAGTATTGATTTCTCCTTTAAACCAGACAT			
14082	T	A	A	CTCTTCCTAGACTGGGCTTAATTTTTGGAGAGGAATAACAGTATTGATTTCTCCTTTAAACCAGACAT			
				TAGACTTGTCCATAAATGTCTGGTTTAAAGGAGAAATCAATACTGTTATTCCTCTCCAAA[GA]ATTAAGCCCAGTCTAGGAAGAGAAGATTGGAGTTTTAGAC			
14082	IS	[GA]		TTGATTAGTTATCTATCTGT			
14084	I		S	GGCCTCAGGAGAAGACTAGTGAAGAGAGTAGCTACAAGAA			
14084	P	G	S	ATGACGTGGCAGACCGAGAGAAAGACAAGCGY			
14084	P	A	S	CGCGCCGAGGTGAGAGAAAGACAAGCGY			
14084	T	G	S	TTTCCGCTTGTCTTTCTCTCGTCTTGTAGCTACTCTCTTCACTAGTCTTCTCCTGAGGCCTC			
14084	T	A	S	TTTCCGCTTGTCTTTCTCTCATCTTGTAGCTACTCTCTTCACTAGTCTTCTCCTGAGGCCTC			
				TCCAGCCCTGAGGTTTTGCTTAGGTTATGTCTGACAGAAGTTTCCGCTTGTCTTTCTCTC[GA]TCTTGTAGCTACTCTCTTCACTAGTCTTCTCCTGAGGCCT			
14084	IS	[GA]		CCACCCAACCTTATGGCAAG	ctg19247	7	
14105	I		A	GCACCTGATTCAGAACGGTCCCTTTACAA			
14105	P	T	A	CGCGCCGAGGTTGGGTGATGGGCTCY			
14105	P	C	A	ATGACGTGGCAGACCTGGGTGATGGGCTY			
14105	T	T	A	AGATGAGCCCATCACCCAATGTAAAGGGACCGTTCTGAATCAGGTGCCT			
14105	T	C	A	AGATGAGCCCATCACCCAGTGTAAAGGGACCGTTCTGAATCAGGTGCCT			
				ATATTTTACCAGATAAAGAAAGGGATATATAGGCACCTGATTCAGAACGGTCCCTTTACA[TC]TGGGTGATGGGCTCATCTCCCTTCTTCTATCCATGTGAAA			
14105	IS	[TC]		TTCTGCAGCCTACCATGTGT	ctg15422	X	
14110	I		A	GCTGTGTTGGGACCAGGGCCCAAGT			
14110	P	C	A	ATGACGTGGCAGACCTTCCTTAGATTTGGTCTACTGY			
14110	P	A	A	CGCGCCGAGGATTCCTTAGATTTGGTCTACTGY			
14110	T	C	A	CACCCAGTAGACCAAATCTAAGGAAGCTTGGGCCCTGGTCCCAACACAGCCC			
14110	T	A	A	CACCCAGTAGACCAAATCTAAGGAATCTTGGGCCCTGGTCCCAACACAGCCC			
				GGGGCAAAGGGAAGTCGGGGGAGCAAGAGGCCCAGGGCTGTGTTGGGACCAGGGCCCAAG[CA]TTCCTTAGATTTGGTCTACTGGGTGCCATAGTTATGC			
14110	IS	[CA]		CTAGTTTTGGACTCCAGTGGGCC	ctg15422	X	
14112	I		A	GTTGTAATGGAATGTTCCGTAAAATGTAAGCTGTCTAGTCCACCATAAT			
14112	P	G	A	ATGACGTGGCAGACGGCACTTATGTACCTCCY			
14112	P	A	A	CGCGCCGAGGAGCACTTATGTACCTCCCY			
14112	T	G	A	CTAAGGGAGGTACATAAGTGCCTTATGGTGGACTAGACAGCTTACATTTTACGGAACATTCCATTACAACTG			
14112	T	A	A	CTAAGGGAGGTACATAAGTGCTTTATGGTGGACTAGACAGCTTACATTTTACGGAACATTCCATTACAACTG			
				CAAAGTGTTCCAGTTGTAATGGAATGTTCCGTAAAATGTAAGCTGTCTAGTCCACCATAA[GA]GCACTTATGTACCTCCCTTAGAAACCGTAAGTTGCACACT			
14112	IS	[GA]		GTGAAGTCCTTTCCAAAGGG	ctg13715	13	
14113	I		S	GGTGGTGAGCTCGGCCAGTGTGTGA			
14113	P	A	S	CGCGCCGAGGTCATGTATGCCAGGAACAY			
14113	P	G	S	ATGACGTGGCAGACCCATGTATGCCAGGAACY			
14113	T	A	S	GGTATGTTCCTGGCATACATGACACACACTGGCCGAGCTCACCACCGA			
14113	T	G	S	GGTATGTTCCTGGCATACATGGCACACACTGGCCGAGCTCACCACCGA			
				TGGGGCACGGTGTGCAACTGAGCTGGCCTTCCATGTCCTGGTATGTTCCTGGCATACATG[AG]CACACACTGGCCGAGCTCACCACCGAAGTGGGTGCCA			
14113	IS	[AG]		GGCCCACAGGCAACTGCAGAGGC	ctg15804	2	
14118	I		S	GCCAGGAGCGGGGGCACCAATACT			
14118	P	T	S	CGCGCCGAGGATGGAAATTCCAGACAGCY			
14118	P	C	S	ATGACGTGGCAGACGTGGAAATTCCAGACAGCY			
14118	T	T	S	ACGAGCTGTCTGGAATTTCCATGTATTGGTGCCCCCGCTCCTGGCCC			
14118	T	C	S	ACGAGCTGTCTGGAATTTCCACGTATTGGTGCCCCCGCTCCTGGCCC			

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FIGURE 129E

				CCCTCTACTCTGCCCCTCTCTGCTGTGAGCCTCCCTGGAACGAGCTGTCTGGAATTTCCA[TC]GTATTGGTGCCCCCGCTCCTGGCCCGAGTTCTCTAGTA		
14118 IS	[TC]			AATGGGGTTTCCAGCCCCGTGC	ctg15804	2
14126 I			A	CTCAGCTCTAGGAACCTGGCCCTGGACT		
14126 P	A		A	CGCGCCGAGGAACCCATGTGAAAGCAGY		
14126 P	G		A	ATGACGTGGCAGACGACCCATGTGAAAGCAGY		
14126 T	A		A	AGTGCTGCTTTCACATGGGTTGTCCAGGGCCAGGTTCCTAGAGCTGAGGG		
14126 T	G		A	AGTGCTGCTTTCACATGGGTCGTCCAGGGCCAGGTTCCTAGAGCTGAGGG		
				CCATGGCCCTGGAAACGGCAGGCAGGAAGCTCCCTCAGCTCTAGGAACCTGGCCCTGGAC[AG]ACCCATGTGAAAGCAGCACTTAAACTAGGGAGCCGGC		
14126 IS	[AG]			GGCACAGACACCCTGGGACAGTG	ctg15064	7
14127 I			A	CCTTTGCTAGACACCTATGTGTACCCGGCTTCTTAA		
14127 P	C		A	ATGACGTGGCAGACCGACGGGCACTGCY		
14127 P	T		A	CGCGCCGAGGTGACGGGCACTGCY		
14127 T	C		A	ATTTGCAGTGCCCGTCGTAAGAAGCCGGGTACACATAGGTGTCTAGCAAAGGCC		
14127 T	T		A	ATTTGCAGTGCCCGTCATAAGAAGCCGGGTACACATAGGTGTCTAGCAAAGGCC		
				GGCATCTAGGGATCACGTAGGGAGGCCTTTGCTAGACACCTATGTGTACCCGGCTTCTTA[CT]GACGGGCACTGCAAATAGCCCCATTTACAGATGAGGAA		
14127 IS	[CT]			ATGGGCTCAGGTAAGGGAAGCG	ctg15804	2
14128 I			A	CATCTATGTAACTGGAAAAGAGGTCTGGGGGCCTAT		
14128 P	C		A	CGCGCCGAGGCTGTAAACCCCATTCCCY		
14128 P	G		A	ATGACGTGGCAGACGTGTAAACCCCATTCCCY		
14128 T	C		A	TGGAGGGAATGGGGTTTACAGTAGGCCCCCAGACCTCTTTTCCAGTTACATAGATGCT		
14128 T	G		A	TGGAGGGAATGGGGTTTACACTAGGCCCCCAGACCTCTTTTCCAGTTACATAGATGCT		
				AAGGGAAGCGACACACCTCAAAGAGCATCTATGTAACTGGAAAAGAGGTCTGGGGGCCTA[CG]TGTAAACCCCATTCCCTCCAAGGAAGTCTCAGTCCTGC		
14128 IS	[CG]			TGAGCCCATAGGACAACTGTCC	ctg30	7
14131 I			S	CTGTCAGTTCCTTCTCGGCATTTCTTTTGGCCAC		
14131 P	A		S	CGCGCCGAGGTGTTTTCGAACCTAAGTTATAGAY		
14131 P	T		S	ATGACGTGGCAGACAGTTTTCGAACCTAAGTTATAGAAY		
14131 T	A		S	TGTTTTCTATAACTTAGGTTCGAAAACATGGCCAAAAGAAATGCCGAGAAGGAACTGACAGAT		
14131 T	T		S	TGTTTTCTATAACTTAGGTTCGAAAACTTGGCCAAAAGAAATGCCGAGAAGGAACTGACAGAT		
				AAGAATTTATTCTTCTAGAAAAATAAACTCTTCTGTTTTCTATAACTTAGGTTCGAAAAC[AT]TGGCCAAAAGAAATGCCGAGAAGGAACTGACAGATAGGAAT		
14131 IS	[AT]			TGGGATCAAGAAGATGAAG	ctg30	7
14132 I			A	TGGCCAAAAGAAATGCCGAGAAGGAACTGACAGATAGC		
14132 P	G		A	ATGACGTGGCAGACGAATTGGGATCAAGAAGATGAY		
14132 P	T		A	CGCGCCGAGGTAATTGGGATCAAGAAGATGAAY		
14132 T	G		A	CAGCTTCATCTTCTTGATCCCAATTCCTATCTGTCAGTTCCTTCTCGGCATTTCTTTTGGCCATG		
14132 T	T		A	CAGCTTCATCTTCTTGATCCCAATTACTATCTGTCAGTTCCTTCTCGGCATTTCTTTTGGCCATG		
				TCTATAACTTAGGTTCGAAAACATGGCCAAAAGAAATGCCGAGAAGGAACTGACAGATAG[GT]AATTGGGATCAAGAAGATGAAGCTGAAGAGGTAAAAAGC		
14132 IS	[GT]			AGCTTCCCTAAGAATGATTTC	MULTIPLE	19
14153 I			A	CATAGGCAGCTTTCTTCTAGCTGTGGCCAGTGT		
14153 P	A		A	CGCGCCGAGGAAAGGACTAGCTCGAGGY		
14153 P	G		A	ATGACGTGGCAGACGAAGGACTAGCTCGAGGY		
14153 T	A		A	TGGGCCTCGAGCTAGTCCTTTCACTGGCCACAGCTAGAAGAAAGCTGCCTATGTA		
14153 T	G		A	TGGGCCTCGAGCTAGTCCTTCCACTGGCCACAGCTAGAAGAAAGCTGCCTATGTA		
				GAACCTAAAGTGCTTTAGAGGCTTGATACATAGGCAGCTTTCTTCTAGCTGTGGCCAGTG[AG]AAGGACTAGCTCGAGGCCCAATCTTAGATTTATCATATG		
14153 IS	[AG]			GAATTCCAGTACTTCACGTGA	ctg14243	19
14178 I			A	CTGCCTACTGCGCTAAGGAGGCAACTGTT		
14178 P	C		A	CGCGCCGAGGCTCTCCCGCTTAACCAY		
14178 P	G		A	ATGACGTGGCAGACGTCTCCCGCTTAACCAY		
14178 T	C		A	CCGTTGGTTAAGCGGGAGAGACAGTTGCCTCCTTAGCGCAGTAGGCAGCG		
14178 T	G		A	CCGTTGGTTAAGCGGGAGACACAGTTGCCTCCTTAGCGCAGTAGGCAGCG		
				ACTCAGGACCTTCAGATTATGAGACTGACGCGCTGCCTACTGCGCTAAGGAGGCAACTGT[CG]TCTCCCGCTTAACCAACGGCTCTACCAAGATGATTATGA		
14178 IS	[CG]			GGCATTTTAATAAGGTTTTAC	ctg16564	19
14184 I			S	GCGGCCACGGGGTCCAACATCTTTTT		
14184 P	C		S	ATGACGTGGCAGACGTCTTGACCTCAATGAAGATY		
14184 P	G		S	CGCGCCGAGGCTCTTGACCTCAATGAAGATTY		
14184 T	C		S	TTAAAATCTTCATTGAGGTCAAGACAAAAGATGTTGGACCCCGTGGCCGCAG		
14184 T	G		S	TTAAAATCTTCATTGAGGTCAAGAGAAAAGATGTTGGACCCCGTGGCCGCAG		
				TGTGCTCACCTTTTCAACTCTTACCATTCTTTAGTCTTAAAATCTTCATTGAGGTCAAGA[CG]AAAAGATGTTGGACCCCGTGGCCGCAGGCATTGCCAGGG		
14184 IS	[CG]			TGGTTTGCTTACCCCGGCCAT	ctg14007	17
14187 I			A	CTCCCACCACCAGTCCCTCCCCAA		
14187 P	T		A	CGCGCCGAGGTAAACTCTGTGCTGCTGY		
14187 P	C		A	ATGACGTGGCAGACCAAACTCTGTGCTGCTGY		
14187 T	T		A	GTTCCAGCAGCACAGAGTTTATGGGGAGGGACTGGTGGTGGGAGGG		
14187 T	C		A	GTTCCAGCAGCACAGAGTTTGTGGGGAGGGACTGGTGGTGGGAGGG		
				GAAGGGCCCTGCTGCCCGCTACCACTGGCCACCCTCCCTCCCACCACCAGTCCCTCCCCA[TC]AAACTCTGTGCTGCTGGAACACCATCATCTGACATTCA		
14187 IS	[TC]			TTCCTTTGCCCTCAGACCTAGT	ctg12475	11
14188 I			A	CCCACCACCAGTCCCTCCCCATAAACTCA		
14188 P	T		A	CGCGCCGAGGTGTGCTGCTGGAACAY		
14188 P	C		A	ATGACGTGGCAGACCGTGCTGCTGGAACY		
14188 T	T		A	ATGGTGTTCCAGCAGCACAGAGTTTATGGGGAGGGACTGGTGGTGGGAG		
14188 T	C		A	ATGGTGTTCCAGCAGCACGGAGTTTATGGGGAGGGACTGGTGGTGGGAG		
				CCTGCTGCCCGCTACCACTGGCCACCCTCCCTCCCACCACCAGTCCCTCCCCATAAACTC[TC]GTGCTGCTGGAACACCATCATCTGACATTCATTCCTTTG		
14188 IS	[TC]			CCCTCAGACCTAGTTTCTGGT	ctg14145	11
14190 I			A	AGTGTGAATGAATATTTGATCTTTCTCTAGTTGGTTTTTTGTTCAGTAGGGGTAGA		
14190 P	C		A	ATGACGTGGCAGACCGGGTGGGAGGCY		
14190 P	T		A	CGCGCCGAGGTGGGTGGGAGGCAY		
14190 T	C		A	CTGTTGCCTCCCACCCGCTACCCCTACTGAACAAAAAACCAACTAGAGAAAGATCAAATATTCATTCACACTGA		
14190 T	T		A	CTGTTGCCTCCCACCCACTACCCCTACTGAACAAAAAACCAACTAGAGAAAGATCAAATATTCATTCACACTGA		
				ACCTCAGTGTGAATGAATATTTGATCTTTCTCTAGTTGGTTTTTTGTTCAGTAGGGGTAG[CT]GGGTGGGAGGCAACAGGATGGAAGTGGATAGAGGAGACA		
14190 IS	[CT]			AGGGCCACAGATAAAGGGAAG	ctg15064	7
14198 I			S	AGACACTGCCAGGAGGCCCAGTCTAGAAACT		
14198 P	G		S	CGCGCCGAGGCTCCATGCTCAACTCATCY		
14198 P	C		S	ATGACGTGGCAGACGTCCATGCTCAACTCATCY		
14198 T	G		S	ACAGGATGAGTTGAGCATGGAGGTTTCTAGACTGGGCCTCCTGGCAGTGTCTCT		
14198 T	C		S	ACAGGATGAGTTGAGCATGGACGTTTCTAGACTGGGCCTCCTGGCAGTGTCTCT		
				CTCAGGGACCTGGAGACCCCTCTTTTCTATCCGCCTCTAACAGGATGAGTTGAGCATGGA[GC]GTTTCTAGACTGGGCCTCCTGGCAGTGTCTCTTCCCAG		
14198 IS	[GC]			CCCCAGGGTGCTATTGAAGGGA		
14200 I			S	GGCTGAGCTGAGCATCCGCACCTCAA		
14200 P	G		S	ATGACGTGGCAGACCCCCCTGCCTCCTY		
14200 P	A		S	CGCGCCGAGGTCCCCTGCCTCCTY		
14200 T	G		S	AGCCAGGAGGCAGGGGGTGAGGTGCGGATGCTCAGCTCAGCCGC		
14200 T	A		S	AGCCAGGAGGCAGGGGATGAGGTGCGGATGCTCAGCTCAGCCGC		
				TGAGACCCCATGCTGTGCCCAGCTCCCTCTCCCTCACTGAACACAGCCAGGAGGCAGGGG[GA]TGAGGTGCGGATGCTCAGCTCAGCCGCGTTAGTCTTT		
14200 IS	[GA]			TTCCCGGATCTCGGTGATCATTC		
14211 I			S	CTGAGAGAGGAGGGATGTCGGGAAAACCACATC		
14211 P	C		S	ATGACGTGGCAGACGAGTAACAATGATAGGCGAAY		
14211 P	A		S	CGCGCCGAGGTAGTAACAATGATAGGCGAAAAY		
14211 T	C		S	TTTTTTTTCGCCTATCATTGTTACTCATGTGGTTTTCCCGACATCCCTCCTCTCTCAGGT		
14211 T	A		S	TTTTTTTTCGCCTATCATTGTTACTAATGTGGTTTTCCCGACATCCCTCCTCTCTCAGGT		

Exhibit 10.48 Confidential Treatment Requested

FIGURE 129E

				AGGGCAAGCCAGTGAGTTACTCAAGTTTGGTCATATTTTTTTTCGCCTATCATTGTTACT[CA]ATGTGGTTTTCCCGACATCCCTCCTCTCTCAGGTAATGAT			
14211	IS	[CA]		TCATTGGTGTGGCGCAAGAC	ctg22fin4	22	
14221	I		A	GCTGACCTCCTTCCTCCGAGGAAGCTTTGA			
14221	P	C	A	ATGACGTGGCAGACCTCCTGGCCAGTCTTY			
14221	P	T	A	CGCGCCGAGGTTCCTGGCCAGTCTTGY			
14221	T	C	A	TGGGCAAGACTGGCCAGGAGCAAAGCTTCCTCGGAGGAAGGAGGTCAGCAG			
14221	T	T	A	TGGGCAAGACTGGCCAGGAACAAAGCTTCCTCGGAGGAAGGAGGTCAGCAG			
				CAGGGGCTCCCTTTGAACTGGGCTTGGGGCTGCTGACCTCCTTCCTCCGAGGAAGCTTTG[CT]TCCTGGCCAGTCTTGCCCATGGGCATTGCCAGTCACAT			
14221	IS	[CT]		GATTCAACTGGAGGCCCATGTG	ctg22fin4	22	
14223	I		S	GTGTGGAATACTAATTGTGGATTGTGAATTTAAAATGGGGGA			
14223	P	A	S	CGCGCCGAGGTGATGTCTCTTTCCTCCATY			
14223	P	G	S	ATGACGTGGCAGACCGATGTCTCTTTCCTCCAY			
14223	T	A	S	CAGCATGGAGGAAAGAGACATCACCCCCATTTTAAATTCACAATCCACAATTAGTATTCCACACCT			
14223	T	G	S	CAGCATGGAGGAAAGAGACATCGCCCCCATTTTAAATTCACAATCCACAATTAGTATTCCACACCT			
				CTATGGGGAGTTATTTCTGGCCCCAGATACTCAGCTGTCAGCATGGAGGAAAGAGACATC[AG]CCCCCATTTTAAATTCACAATCCACAATTAGTATTCCACA			
14223	IS	[AG]		CCTTTATCTTTCTCTCATCA	ctg22fin4	22	
14227	I		S	CAGCAAAGGAAGCCAGGTCCAGCATAGCT			
14227	P	C	S	ATGACGTGGCAGACGCCACTGAGTCCTGTY			
14227	P	T	S	CGCGCCGAGGACCACTGAGTCCTGTCY			
14227	T	C	S	CTAGGACAGGACTCAGTGGCGCTATGCTGGACCTGGCTTCCTTTGCTGCC			
14227	T	T	S	CTAGGACAGGACTCAGTGGTGCTATGCTGGACCTGGCTTCCTTTGCTGCC			
				TTCATTTCCTTAATGATTTGAAAAGTTATTTTCAAAGGTTCCTAGGACAGGACTCAGTGG[CT]GCTATGCTGGACCTGGCTTCCTTTGCTGCCGAAGTACAGA			
14227	IS	[CT]		CCCTCTGCAGCATAACAGAA	ctg22fin4	22	
14232	I		A	CAAAGGCCCTGCTCAAAGGCCAGCTT			
14232	P	A	A	CGCGCCGAGGAAGCAGAGTTGGCGTY			
14232	P	G	A	ATGACGTGGCAGACGAGCAGAGTTGGCGTY			
14232	T	A	A	ACTCACGCCAACTCTGCTTAGCTGGCCTTTGAGCAGGGCCTTTGCC			
14232	T	G	A	ACTCACGCCAACTCTGCTCAGCTGGCCTTTGAGCAGGGCCTTTGCC			
				ACCTGCCTACAGACCCTGGCCCAGAGGAGCACAGGCAAAGGCCCTGCTCAAAGGCCAGCT[AG]AGCAGAGTTGGCGTGAGTGTGTCCCATTGACATGGGG			
14232	IS	[AG]		CCAGTCCTCATTCATCACTGGCT	ctg22fin4	22	
14242	I		A	CCGGAAATGGGACCTTCTGGCTGCCTAT			
14242	P	C	A	CGCGCCGAGGCAGTTCAACCCTTTCAGGY			
14242	P	G	A	ATGACGTGGCAGACGAGTTCAACCCTTTCAGGY			
14242	T	C	A	CCCTCCTGAAAGGGTTGAACTGTAGGCAGCCAGAAGGTCCCATTTCCGGTC			
14242	T	G	A	CCCTCCTGAAAGGGTTGAACTCTAGGCAGCCAGAAGGTCCCATTTCCGGTC			
				CTTGGGATGATGATGAGCCATGGGGCCCATGGACCGGAAATGGGACCTTCTGGCTGCCTA[CG]AGTTCAACCCTTTCAGGAGGGCACCTATCTGGCCACC			
14242	IS	[CG]		ATACACCTGCCATACCTGCAAGG	ctg22fin4	22	TAPBP
14243	I		S	CCCTCTTATCCATCATCCCTCCCCCTATTACGGTCT			
14243	P	G	S	ATGACGTGGCAGACCCCACAATCCAGTGCY			
14243	P	T	S	CGCGCCGAGGACCACAATCCAGTGCCY			
14243	T	G	S	GGTGGGCACTGGATTGTGGGGACCGTAATAGGGGGAGGGATGATGGATAAGAGGGTG			
14243	T	T	S	GGTGGGCACTGGATTGTGGTGACCGTAATAGGGGGAGGGATGATGGATAAGAGGGTG			
				GTGTACAGTGAGTTGGGGGACAGAGGTCTCCAGGGGTAGAGGGTGGGCACTGGATTGTGG[GT]GACCGTAATAGGGGGAGGGATGATGGATAAGAGGGT			
14243	IS	[GT]		GCCTGGGCAAGTAAGTAGAGATAG	ctg22fin3	22	
14253	I		S	GCGAGACCCAAACCATGCACTTCTATTACCAAAATACAACTAT			
14253	P	T	S	CGCGCCGAGGAAAGGCACACTCTCCCY			
14253	P	G	S	ATGACGTGGCAGACCAAGGCACACTCTCCCY			
14253	T	T	S	AAGTGGGAGAGTGTGCCTTTAGTTGTATTTTGGTAATAGAAGTGCATGGTTTGGGTCTCGCCC			
14253	T	G	S	AAGTGGGAGAGTGTGCCTTGTAGTTGTATTTTGGTAATAGAAGTGCATGGTTTGGGTCTCGCCC			
				TTTCTGTCTGATTTCACTCAGTGGGTTCATCTTTTCTCTCTAAGTGGGAGAGTGTGCCTTTTGTAGTTGTATTTTGGTAATAGAAGTGCATGGTTTGGGTCTC			
14253	IS	[TG]		GCCCTATTTTGTTTTCTATT	ctg22fin4	22	
14260	I		S	ACACCTTGGGCCTCTCAGTGGGACCC			
14260	P	C	S	ATGACGTGGCAGACGTCCACACAGCCCAY			
14260	P	A	S	CGCGCCGAGGTTCCACACAGCCCAGY			
14260	T	C	S	CCACCTGGGCTGTGTGGACGGTCCCACTGAGAGGCCCAAGGTGTGT			
14260	T	A	S	CCACCTGGGCTGTGTGGAAGGTCCCACTGAGAGGCCCAAGGTGTGT			
				TGGAAGAGGGAGAGAGAGGACGTGCCCACCTCCCTTTCAGAGCCACCTGGGCTGTGTGGA[CA]GGTCCCACTGAGAGGCCCAAGGTGTGTAGACAGAGA			
14260	IS	[CA]		AAGCAGCAGAGAGCCGCTGCTCCT	MULTIPLE	22	
14284	I		S	AGAGGGCTGCCCCAAAAGAGGGTTTGAAGT			
14284	P	C	S	ATGACGTGGCAGACGCAGCTGCTCCCAY			
14284	P	G	S	CGCGCCGAGGCCAGCTGCTCCCAAY			
14284	T	C	S	CTTTTTGGGAGCAGCTGCCTTCAAACCCTCTTTTGGGGCAGCCCTCTTC			
14284	T	G	S	CTTTTTGGGAGCAGCTGGCTTCAAACCCTCTTTTGGGGCAGCCCTCTTC			
				CTATCCTCTTCAGATCCTCTTACGGGATTGCCTTCTTCAGACTCTTTTTGGGAGCAGCTG[CG]CTTCAAACCCTCTTTTGGGGCAGCCCTCTTCAGATTCTTT			
14284	IS	[CG]		TTCAGGGCAGCCTTCTTCAG	ctg22fin4	22	HTATSF1
14285	I		A	TGTGGGTGTGTCTTTCCCCCCAGCAAAGT			
14285	P	G	A	ATGACGTGGCAGACGGAGGGGCCCTGY			
14285	P	C	A	CGCGCCGAGGCGAGGGGCCCTGY			
14285	T	G	A	AATCCAGGGCCCCTCCCTTTGCTGGGGGGAAAGACACACCCACACG			
14285	T	C	A	AATCCAGGGCCCCTCGCTTTGCTGGGGGGAAAGACACACCCACACG			
				GGGGTGGTGGAAGGGCCTGTGGGTAAAGGGCGTGTGGGTGTGTCTTTCCCCCCAGCAAAG[GC]GAGGGGCCCTGGATTGAGCCCAGGGGCCCTTGGTG			
14285	IS	[GC]		TTCCCCACTTCTCCCCAACCATTAT	ctg22fin4	22	
14286	I		A	GGAAGGGTACAATGTCGTCCGCGCCTCT			
14286	P	G	A	ATGACGTGGCAGACGAGGGCCATGATTGGAY			
14286	P	A	A	CGCGCCGAGGAAGGGCCATGATTGGAY			
14286	T	G	A	TGTGTCCAATCATGGCCCTCGAGGCGCGGACGACATTGTACCCTTCCCA			
14286	T	A	A	TGTGTCCAATCATGGCCCTTGAGGCGCGGACGACATTGTACCCTTCCCA			
				TCTCCCCAACCATTATCTCTCGCTGCAGGTCTGGGAAGGGTACAATGTCGTCCGCGCCTC[GA]AGGGCCATGATTGGACACACCGACTCGGCTGAGGCTG			
14286	IS	[GA]		CCCCAGGAACCATAAGGGGTGAC	ctg22fin8	22	
14288	I		A	GCAAGCTGCCGAGAGGACAAGGGGTA			
14288	P	T	A	CGCGCCGAGGTTGGCTGGAGGAAAGTY			
14288	P	C	A	ATGACGTGGCAGACCTGGCTGGAGGAAAGTY			
14288	T	T	A	CCAGACTTTCCTCCAGCCAAACCCCTTGTCCTCTCGGCAGCTTGCAG			
14288	T	C	A	CCAGACTTTCCTCCAGCCAGACCCCTTGTCCTCTCGGCAGCTTGCAG			
				TGCAGAAGGGGCTGGATGGTCACGCTCCGTGGCCTGCAAGCTGCCGAGAGGACAAGGGGT[TC]TGGCTGGAGGAAAGTCTGGGGATCTGGGGAGGGGC			
14288	IS	[TC]		AGGGCCATCCCTCCAGCCCTTGTGC	ctg22fin4	22	
14299	I		S	CTGCCGCCTCCTGACTGCCCCC			
14299	P	A	S	CGCGCCGAGGTATCCCCGCAGCCY			
14299	P	C	S	ATGACGTGGCAGACGATCCCCGCAGCCY			
14299	T	A	S	CAGGGGCTGCGGGGATAGGGGCAGTCAGGAGGCGGCAGTG			
14299	T	C	S	CAGGGGCTGCGGGGATCGGGGCAGTCAGGAGGCGGCAGTG			
				GGGGCCAGGTACCCTGGGAGAGAGGAGGGAAATGAAATCCGGCACAGGGGCTGCGGGGAT[AC]GGGGCAGTCAGGAGGCGGCAGTGCGGTGCAAGGG			
14299	IS	[AC]		CCCCCCCACGCGGCCAGCTGTGGAAC	ctg22fin4	22	
14317	I		A	GCACTCATGGCTGTAATCCACTCACCAAGCCT			
14317	P	G	A	ATGACGTGGCAGACGCAACACTAGTTCAAAGGTY			
14317	P	A	A	CGCGCCGAGGACAACACTAGTTCAAAGGTATTY			
14317	T	G	A	GGATAATACCTTTGAACTAGTGTTGCGGCTTGGTGAGTGGATTACAGCCATGAGTGCAG			
14317	T	A	A	GGATAATACCTTTGAACTAGTGTTGTGGCTTGGTGAGTGGATTACAGCCATGAGTGCAG			

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				AAGCACCAGCCAAAAGGGTAAAGGGGGCTGCACTCATGGCTGTAATCCACTCACCAAGCC[GA]CAACACTAGTTCAAAGGTATTATCCGGCAACTTTATTTT			
14317	IS	[GA]		TGTTTCAAGGGGTGCTTTTTC	ctg22fin4	22	
14329	I		A	GCTCCAGAGCAAGGCCCAATGGCAGT			
14329	P	G	A	ATGACGTGGCAGACGCTCCGTGCCCTY			
14329	P	A	A	CGCGCCGAGGACTCCGTGCCCTGY			
14329	T	G	A	TGAGCAGGGCACGGAGCCTGCCATTGGGCCTTGCTCTGGAGCAA			
14329	T	A	A	TGAGCAGGGCACGGAGTCTGCCATTGGGCCTTGCTCTGGAGCAA			
				CTGGTGAGAGGGCCGAGTGCTCCGCCTCCAGCTTTGCTCCAGAGCAAGGCCCAATGGCAG[GA]CTCCGTGCCCTGCTCAGGGTGGGGTCCCTGCTCTCC			
14329	IS	[GA]		CCAGGACCCTGCAGCCTCTGGGCC			
14351	I		S	TCCTTGGGGGCTGGGTGACTTCCCA			
14351	P	G	S	ATGACGTGGCAGACCGTTGTTGCTGGGACY			
14351	P	A	S	CGCGCCGAGGTGTTGTTGCTGGGACTY			
14351	T	G	S	CACCAGTCCCAGCAACAACGGGGAAGTCACCCAGCCCCCAAGGATT			
14351	T	A	S	CACCAGTCCCAGCAACAACAGGGAAGTCACCCAGCCCCCAAGGATT			
				CGGAGAAGGATCCCAGGTGGGGTTAGCACAACGGAGCCTTCCACCAGTCCCAGCAACAAC[GA]GGGAAGTCACCCAGCCCCCAAGGATTCTGGGGGAGG			
14351	IS	[GA]		CCTCAGGTACAGCCATCTCTCTTC	ctg22fin4	22	
14356	I		S	TGTGTGTGTGTGTGTGTGTGTGTGTGTT			
14356	P	C	S	ATGACGTGGCAGACGTGTGTGTGTATTAGGCATY			
14356	P	G	S	CGCGCCGAGGCTGTGTGTGTATTAGGCATY			
14356	T	C	S	TGCAATGCCTAATACACACACACACACACACACACACACACACACACACACACACA			
14356	T	G	S	TGCAATGCCTAATACACACACAGACACACACACACACACACACACACACACACA			
				AAATTCATACACACATACACCCTGAATTCATAGTCACATGCAATGCCTAATACACACACA[CG]ACACACACACACACACACACACACACACACACACACAC			
14356	IS	[CG]		ACACCAAGCTGTTATACCTA	ctg22fin4	22	
14358	I		S	GCTCCCCTTCATTCACAGCCCCTCCTC			
14358	P	C	S	ATGACGTGGCAGACGCCAGGTGAGGCTTY			
14358	P	A	S	CGCGCCGAGGTCCAGGTGAGGCTTTGY			
14358	T	C	S	GAAGCAAAGCCTCACCTGGCAGGAGGGGCTGTGAATGAAGGGGAGCAG			
14358	T	A	S	GAAGCAAAGCCTCACCTGGAAGGAGGGGCTGTGAATGAAGGGGAGCAG			
				AGGTAGAAGACGGGCATCAGGAAGGAGCTGGCATTTGCCATGAAGCAAAGCCTCACCTGG[CA]AGGAGGGGCTGTGAATGAAGGGGAGCAGCTAGGACA			
14358	IS	[CA]		CATGACTGTAGAGGAGGCTTTAGG	ctg22fin4	22	
14461	I		A	GCACTTGAAGGAGAAGGTGTCTGCGGGAGA			
14461	P	C	A	CGCGCCGAGGCCGATTTCATCATCACGCA			
14461	P	T	A	CGCGCCGAGGTCGATTTCATCATCACGCAG			
14461	T	C	A	AAGCTGCGTGATGATGAAATCGGCTCCCGCAGACACCTTCTCCTTCAAGTGCTT			
14461	T	T	A	AAGCTGCGTGATGATGAAATCGACTCCCGCAGACACCTTCTCCTTCAAGTGCTT			
14461	IS	[CT]		GACCTGAAGCACTTGAAGGAGAAGGTGTCTGCGGGAG[CT]CGATTTCATCATCACGCAGCTTTTCTTTGAGGCTGACACATTCTTCCGCTTT	ctg22fin4	22	MTHFR
4053	I		A	ACCCAAACATATAGGCTAATACAAGAGACTGCATTACTCGAACACATACA			
4053	P	T	A	CGCGCCGAGGTACATACAATCAACATTTCAATCTCTATTATATT			
4053	P	C	A	CGCGCCGAGGCACATACAATCAACATTTCAATCTCTAT			
4053	T	T	A	GTGAAATATAATAGAGATTGAAATGTTGATTGTATGTAGTATGTGTTCGAGTAATGCAGTCTCTTGTATTAGCCTATATGTTTGGGTT			
4053	T	C	A	GTGAAATATAATAGAGATTGAAATGTTGATTGTATGTGGTATGTGTTCGAGTAATGCAGTCTCTTGTATTAGCCTATATGTTTGGGTT			
				AACCCAAACATATAGGCTAATACAAGAGACTGCATTACTCGAACACATAC[TC]ACATACAATCAACATTTCAATCTCTATTATATTTCACAACTTGTCAAACATG			
4053	IS	[TC]		TAAAGCACCTGTGTATGGTGACCTTCACTCTACAGCCTAGGGCATTC	MULTIPLE	MULTIPLE	
4074	I		S	CCTTGGCTGCCAAACACATTCCTGGCTACTTCA			
4074	P	A	S	CGCGCCGAGGTGTTGTGTAACAGCATTGAATTG			
4074	P	G	S	CGCGCCGAGGCGTTGTGTAACAGCATTGAATT			
4074	T	A	S	TCTGCAATTCAATGCTGTTACACAACAGAAGTAGCCAGGAATGTGTTTGGCAGCCAAGGGA			
4074	T	G	S	TCTGCAATTCAATGCTGTTACACAACGGAAGTAGCCAGGAATGTGTTTGGCAGCCAAGGGA			
4074	IS	[AG]		CTTGGGAAATTTCTGCTTCTTATCTCTGCAATTCAATGCTGTTACACAAC[AG]GAAGTAGCCAGGAATGTGTTTGGCAGCCAAGGGATGTTTAAGTAGTACCT	ctg17326	12	
4081	I		S	TGTGGGTGTGAGAAAAGAGTGTGCATTATAATAGGGTGGTAA			
4081	P	A	S	CGCGCCGAGGTAATTGGACATGTGTGCACG			
4081	P	G	S	CGCGCCGAGGCAATTGGACATGTGTGCAC			
4081	T	A	S	TTTCCGTGCACACATGTCCAATTATACCACCCTATTATAATGCACACTCTTTTCTCACACCCACAGG			
4081	T	G	S	TTTCCGTGCACACATGTCCAATTGTACCACCCTATTATAATGCACACTCTTTTCTCACACCCACAGG			
4081	IS	[AG]		GTTTGGATTTCATGGCTGTTTTTCCATTTTCCGTGCACACATGTCCAATT[AG]TACCACCCTATTATAATGCACACTCTTTTCTCACACCCACAGGATAATTT	ctg14210	12	
4096	I		A	GGGCCCTGTTCTAGGAGCTGTCAAGTTTGCT			
4096	P	G	A	CGCGCCGAGGGCCTGTGCCCTGGGY			
4096	P	A	A	CGCGCCGAGGACCTGTGCCCTGGGY			
4096	T	G	A	CACCCCCAGGGCACAGGCGCAAACTTGACAGCTCCTAGAACAGGGCCCAG			
4096	T	A	A	CACCCCCAGGGCACAGGTGCAAACTTGACAGCTCCTAGAACAGGGCCCAG			
				TGGGATGTTTCCTGAGTGCTGGGCCCTGTTCTAGGAGCTGTCAAGTTTGC[GA]CCTGTGCCCTGGGGGTGACCATTATTTTCTCACTGAATTCTTGTAACTT			
4096	IS	[GA]		C	ctg1565	1	
4105	I		S	CATCAACAAAAACGAACAAAAGAGGTGGTGGATCTGCAT			
4105	P	C	S	CGCGCCGAGGGAGCACAAGCCCACAG			
4105	P	G	S	CGCGCCGAGGCAGCACAAGCCCACAG			
4105	T	C	S	GAAGCTGTGGGCTTGTGCTCTGCAGATCCACCACCTCTTTTGTTCGTTTTTGTTGATGCT			
4105	T	G	S	GAAGCTGTGGGCTTGTGCTGTGCAGATCCACCACCTCTTTTGTTCGTTTTTGTTGATGCT			
				GTGACGCTCATGAAGTGGCACAGGGGAGATGGAAGCTGTGGGCTTGTGCT[CG]TGCAGATCCACCACCTCTTTTGTTCGTTTTTGTTGATGCTGTTTTTAAG			
4105	IS	[CG]		A	ctg16537	20	
4706	I		A	CGGGCTGCGGCTGCTGCTGCA			
4706	P	T	A	CGCGCCGAGGTGCTGCTACCGCTGCY			
4706	P	C	A	CGCGCCGAGGCGCTGCTACCGCTGY			
4706	T	T	A	CACAGCAGCGGTAGCAGCAGCAGCAGCCGCAGCCCGGA			
4706	T	C	A	CACAGCAGCGGTAGCAGCGGCAGCAGCAGCCGCAGCCCGGA			
				GCGCTCTCGGCAGTGCCGGGGGGCGCCGCCTCCCCCATGCCGCCCTCCGGGCTGCGGCTGCTGCTGC[TC]GCTGCTACCGCTGCTGTGGCTACTGGTG			
4706	IS	[TC]		CTGACGCCTGGCCGGCCGGCCGCGGGACTATCCACCTGCAAGACTATCGACATGGAGCT	ctg16263	1	
4750	I		S	CTCAGGCCATGGCTTTTGTGAGCTCAGCCT			
4750	P	C	S	CGCGCCGAGGGGAGCCCTGGCTTTGY			
4750	P	T	S	CGCGCCGAGGAGAGCCCTGGCTTTGAY			
4750	T	C	S	AAACTCAAAGCCAGGGCTCCGGCTGAGCTCACAAAAGCCATGGCCTGAGGA			
4750	T	T	S	AAACTCAAAGCCAGGGCTCTGGCTGAGCTCACAAAAGCCATGGCCTGAGGA			
				GCAGCTGGTAGGTTAAAATGTGACACTAAAGAAACTCAAAGCCAGGGCTC[CT]GGCTGAGCTCACAAAAGCCATGGCCTGAGGACCCTCCCCCCTCCCCCC			
4750	IS	[CT]		CA	ctg15749	X	
4757	I		A	CCTGGGTGTGGTAGCTGGATGACAGAGTGAGACA			
4757	P	T	A	CGCGCCGAGGTCTGTCTCTTTAAAAACAAAACAAAAGAY			
4757	P	C	A	CGCGCCGAGGCCTGTCTCTTTAAAAACAAAACAAAAGY			
4757	T	T	A	TGTTTCTTTTGTTTTGTTTTTAAAGAGACAGAGTCTCACTCTGTCATCCAGCTACCACACCCAGGCC			
4757	T	C	A	TGTTTCTTTTGTTTTGTTTTTAAAGAGACAGGGTCTCACTCTGTCATCCAGCTACCACACCCAGGCC			
				AAAATAAAAGGTACAGGCCTGGGTGTGGTAGCTGGATGACAGAGTGAGAC[TC]CTGTCTCTTTAAAAACAAAACAAAAGAAACAAACAAAAAAACACCTGGG			
4757	IS	[TC]		C	ctg53	14	
4762	I		S	CTCCAGTGACACAGGCCTCCAGATGGGACT			
4762	P	C	S	CGCGCCGAGGGCTGTTTTTTGAGAACCTTTGTY			
4762	P	T	S	CGCGCCGAGGACTGTTTTTTGAGAACCTTTGTCY			
4762	T	C	S	GGATGACAAAGGTTCTCAAAAAACAGCGTCCCATCTGGAGGCCTGTGTCACTGGAGCA			

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FIGURE 129E

4762 T	T	S	GGATGACAAAGGTTCTCAAAAAACAGTGTCCCATCTGGAGGCCTGTGTCACTGGAGCA			
4762 IS	[CT]		TGAAGATTAAAGAGGGGAGGGGCAGGATGACAAAGGTTCTCAAAAAACAG[CT]GTCCCATCTGGAGGCCTGTGTCACTGGAGCACTTGTATTAATAGAAACT T	ctg13516	6	
6959 I		A	GGCGAGCTCAGAGTGGGGGCCCT			
6959 P	INS	A	CGCGCCGAGGCCGGCGTCCCCGY			
6959 P	DEL	A	CGCGCCGAGGCGGCGTCCCCGGY			
6959 T	INS	A	AAGGCCGGGGACGCCGGGGGCCCCCACTCTGAGCTCGCCGT			
6959 T	DEL	A	AAGGCCGGGGACGCCGGGGCCCCCACTCTGAGCTCGCCGT			
6959 IS	[-C]		CCTCTCGCTTGCAGAAAAAAAAGAAACGGCGAGCTCAGAGTGGGGGCCCC[-C]GGCGTCCCCGGCCTTGCACGTGCGCGCCCGGATGCCTAGCCCGGGCCGCC	ctg14333	11	
6991 I		A	CTGATCTCAGCTCTTTCTATTCCTGCCCAGTTGGGATCA			
6991 P	T	A	CGCGCCGAGGTAGGGTCTTGCCCATTG			
6991 P	C	A	CGCGCCGAGGCAGGGTCTTGCCCATTG			
6991 T	T	A	AAGGCAATGGGCAAGACCCTAGATCCCAACTGGGCAGGAATAGAAAGAGCTGAGATCAGAA			
6991 T	C	A	AAGGCAATGGGCAAGACCCTGGATCCCAACTGGGCAGGAATAGAAAGAGCTGAGATCAGAA			
6991 IS	[TC]		CCCATTGCCTTTCTGATCTCAGCTCTTTCTATTCCTGCCCAGTTGGGATC[TC]AGGGTCTTGCCCATTGCCTTTCTGATCTCAGCTCTTTCTATTCCTGCCCA			
7033 I		S	TCTGGTGACCCCATCCCGGAAGCCTTA			
7033 P	G	S	CGCGCCGAGGCCGGAAAGCGCTTCCY			
7033 P	A	S	CGCGCCGAGGTCGGAAAGCGCTTCCY			
7033 T	G	S	AGGGGGAAGCGCTTTCCGGAAGGCTTCCGGGATGGGGTCACCAGAGT			
7033 T	A	S	AGGGGGAAGCGCTTTCCGAAAGGCTTCCGGGATGGGGTCACCAGAGT			
7033 IS	[GA]		GGAGAAATAACCCCAACTCGATGGGGTGGAAAAGGGGGAAGCGCTTTCCG[GA]AAGGCTTCCGGGATGGGGTCACCAGAGTCAGAGGAAGGAGTAACAGT AGA	ctg14326	3	
7124 I		S	GCCATGCAGGCAGAGCCTGAAACTCGTA			
7124 P	A	S	CGCGCCGAGGTCCCAGCAGAAGAAGGGY			
7124 P	G	S	CGCGCCGAGGCCCCAGCAGAAGAAGGGY			
7124 T	A	S	AACACCCTTCTTCTGCTGGGAACGAGTTTCAGGCTCTGCCTGCATGGCCA			
7124 T	G	S	AACACCCTTCTTCTGCTGGGGACGAGTTTCAGGCTCTGCCTGCATGGCCA			
7124 IS	[AG]		AGACAGGAAACACCACTCTGCTCTTGAGTAAACACCCTTCTTCTGCTGGG[AG]ACGAGTTTCAGGCTCTGCCTGCATGGCCACAAGCCTGGAAAAACGGTA TG	ctg15907	6	
7196 I		A	GGACAGCGAGGCTACCTCCTGCCCA			
7196 P	T	A	CGCGCCGAGGTCTGAACTTCTGCCAGCA			
7196 P	C	A	CGCGCCGAGGCCTGAACTTCTGCCAGC			
7196 T	T	A	CCGATGCTGGCAGAAGTTCAGAGGGCAGGAGGTAGCCTCGCTGTCCAA			
7196 T	C	A	CCGATGCTGGCAGAAGTTCAGGGGCAGGAGGTAGCCTCGCTGTCCAA			
7196 IS	[TC]		GGCCTACCCGGTGCGGCAGCCTTGTTGGACAGCGAGGCTACCTCCTGCCC[TC]CTGAACTTCTGCCAGCATCGGGACCACCCCGGTACCCACAGCCGGAC CCG	ctg13446	1	
7200 I		A	CATCTGTTCCCTGCACATGGAATGTTTGTTGAATGAATAAATGATGGTTAA			
7200 P	C	A	CGCGCCGAGGCGAGATGGGTCTGCATTG			
7200 P	T	A	CGCGCCGAGGTGAGATGGGTCTGCATTG			
7200 T	C	A	CCTGCAATGCAGACCCATCTCGTAACCATCATTTATTCATTCAACAAACATTCCATGTGCAGGGAACAGATG			
7200 T	T	A	CCTGCAATGCAGACCCATCTCATAACCATCATTTATTCATTCAACAAACATTCCATGTGCAGGGAACAGATG			
7200 IS	[CT]		CATCTGTTCCCTGCACATGGAATGTTTGTTGAATGAATAAATGATGGTTA[CT]GAGATGGGTCTGCATTGCAGGGAGGTTGGTGAATTTCCCCCCAGGGACT T	ctg13446	1	
7213 I		A	TAATAAATTTGTCGTGATAAAATTCCCTTTTTCGGTGTCTCATAACACTCT			
7213 P	G	A	CGCGCCGAGGGTCCTCTTCAGCTCCACA			
7213 P	A	A	CGCGCCGAGGATCCTCTTCAGCTCCACA			
7213 T	G	A	ACAGTGTGGAGCTGAAGAGGACGAGTGTTATGAGACACCGAAAAAGGGAATTTTATCACGACAAATTTATTA			
7213 T	A	A	ACAGTGTGGAGCTGAAGAGGATGAGTGTTATGAGACACCGAAAAAGGGAATTTTATCACGACAAATTTATTA			
7213 IS	[GA]		TAATAAATTTGTCGTGATAAAATTCCCTTTTTCGGTGTCTCATAACACTC[GA]TCCTCTTCAGCTCCACACTGTCTGATGCCAGCACAGCCCCGCCAGCTCTC	ctg15907	6	
7221 I		S	ACAAGGTCAGGAGGGCCTTTCCCTGGGT			
7221 P	G	S	CGCGCCGAGGCCCCACACAGACCTCT			
7221 P	C	S	CGCGCCGAGGGCCCACACAGACCTCT			
7221 T	G	S	CGTGAGAGGTCTGTGTGGGGCCCAGGGAAAGGCCCTCCTGACCTTGTTT			
7221 T	C	S	CGTGAGAGGTCTGTGTGGGCCCCAGGGAAAGGCCCTCCTGACCTTGTTT			
7221 IS	[GC]		AGATGGCTGGGAGCAGGGGTGGACTCTCCCCCGTGAGAGGTCTGTGTGGG[GC]CCCAGGGAAAGGCCCTCCTGACCTTGTTTGTGATAGTGGGCTCCAT TCCC	ctg15907	6	
7236 I		S	AAATGGAAGCTTAATTCCTCCCTGATTTCACACATAGATAAAAATTAATGC			
7236 P	A	S	CGCGCCGAGGTGAGAGAGGCGTGAAGAC			
7236 P	C	S	CGCGCCGAGGGGAGAGAGGCGTGAAGA			
7236 T	A	S	GTTGGTCTTCACGCCTCTCTCACATTAATTTTTATCTATGTGTGAAATCAGGGAGGAATTAAGCTTCCATTT			
7236 T	C	S	GTTGGTCTTCACGCCTCTCTCCCATTAATTTTTATCTATGTGTGAAATCAGGGAGGAATTAAGCTTCCATTT			
7236 IS	[AC]		ACAAAGATAAAATTCCAAACCATAGGGCAGTTGGTCTTCACGCCTCTCTC[AC]CATTAATTTTTATCTATGTGTGAAATCAGGGAGGAATTAAGCTTCCATTT	ctg17333	X	
7315 I		S	TCCATTGTTTTGAAGCGAGTCCTGGCCATGGAATTCA			
7315 P	G	S	CGCGCCGAGGCGTTCGTGCACCCG			
7315 P	A	S	CGCGCCGAGGTGTTCGTGCACCCGT			
7315 T	G	S	ACTGACGGGTGCACGAACGGAATTCCATGGCCAGGACTCGCTTCAAAACAATGGAAT			
7315 T	A	S	ACTGACGGGTGCACGAACAGAATTCCATGGCCAGGACTCGCTTCAAAACAATGGAAT			
7315 IS	[GA]		AAAATTCAGGCTGCTTTTCAGAACCTTTACACACTGACGGGTGCACGAAC[GA]GAATTCCATGGCCAGGACTCGCTTCAAAACAATGGAATGGAAGGAATGG G	ctg15907	6	
7351 I		A	CTCTGGTCTCTCTGGTGATATGGGGCCCTGC			
7351 P	T	A	CGCGCCGAGGTACATCTCCAGCCCAGC			
7351 P	G	A	CGCGCCGAGGGACATCTCCAGCCCAGC			
7351 T	T	A	CCCTGCTGGGCTGGAGATGTACAGGGCCCCATATCACCAGAGAGACCAGAGCT			
7351 T	G	A	CCCTGCTGGGCTGGAGATGTCCAGGGCCCCATATCACCAGAGAGACCAGAGCT			
7351 IS	[TG]		CTGCTTGGTCCTGTGGTGAGCTCTGGTCTCTCTGGTGATATGGGGCCCTG[TG]ACATCTCCAGCCCAGCAGGGAAGTCTCCTGATCTGTGGCCCAGGACA TCA	ctg22fin4	22	
7352 I		A	TTCGAAATACTAATCATTGTCCTCTAGGGCAAAAAAACTTTTTTTTCAACA			
7352 P	C	A	CGCGCCGAGGCCTGCATTAGTTAAAATATACTGGTAC			
7352 P	T	A	CGCGCCGAGGTCTGCATTAGTTAAAATATACTGGTACA			
7352 T	C	A	AAGCTGTACCAGTATATTTTAACTAATGCAGGGTTGAAAAAAAAGTTTTTTTGCCCTAGAGGACAATGATTAGTATTTCGAA			
7352 T	T	A	AAGCTGTACCAGTATATTTTAACTAATGCAGAGTTGAAAAAAAAGTTTTTTTGCCCTAGAGGACAATGATTAGTATTTCGAA			
7352 IS	[CT]		TTCGAAATACTAATCATTGTCCTCTAGGGCAAAAAAACTTTTTTTTCAAC[CT]CTGCATTAGTTAAAATATACTGGTACAGCTTTTTTGGATGGTGGTTTGGA	ctg22fin4	22	
7373 I		A	GCCCTCCTTGGTCTGTCCGCTGCTGAA			
7373 P	T	A	CGCGCCGAGGTCTCCTGGCCTCTCCT			
7373 P	C	A	CGCGCCGAGGCCTCCTGGCCTCTCC			
7373 T	T	A	GGAGAGGAGAGGCCAGGAGATCAGCAGCGGACAGACCAAGGAGGGCCT			
7373 T	C	A	GGAGAGGAGAGGCCAGGAGGTCAGCAGCGGACAGACCAAGGAGGGCCT			
7373 IS	[TC]		AAATTCCATGGCTTGACTTATAAGGCCCTCCTTGGTCTGTCCGCTGCTGA[TC]CTCCTGGCCTCTCCTCTCCTGTTTCTCCCCTCCTGCTTCATCTTGAGCC A	ctg22fin6	22	
7493 I		S	CTATGCCGAGGCCCACCGCCGA			
7493 P	G	S	CGCGCCGAGGCCATGGCCGCCTG			
7493 P	A	S	CGCGCCGAGGTCATGGCCGCCTGC			
7493 T	G	S	CAGGGCAGGCGGCCATGGCGGCGGTGGGCCTCGGCATAGCC			
7493 T	A	S	CAGGGCAGGCGGCCATGACGGCGGTGGGCCTCGGCATAGCC			

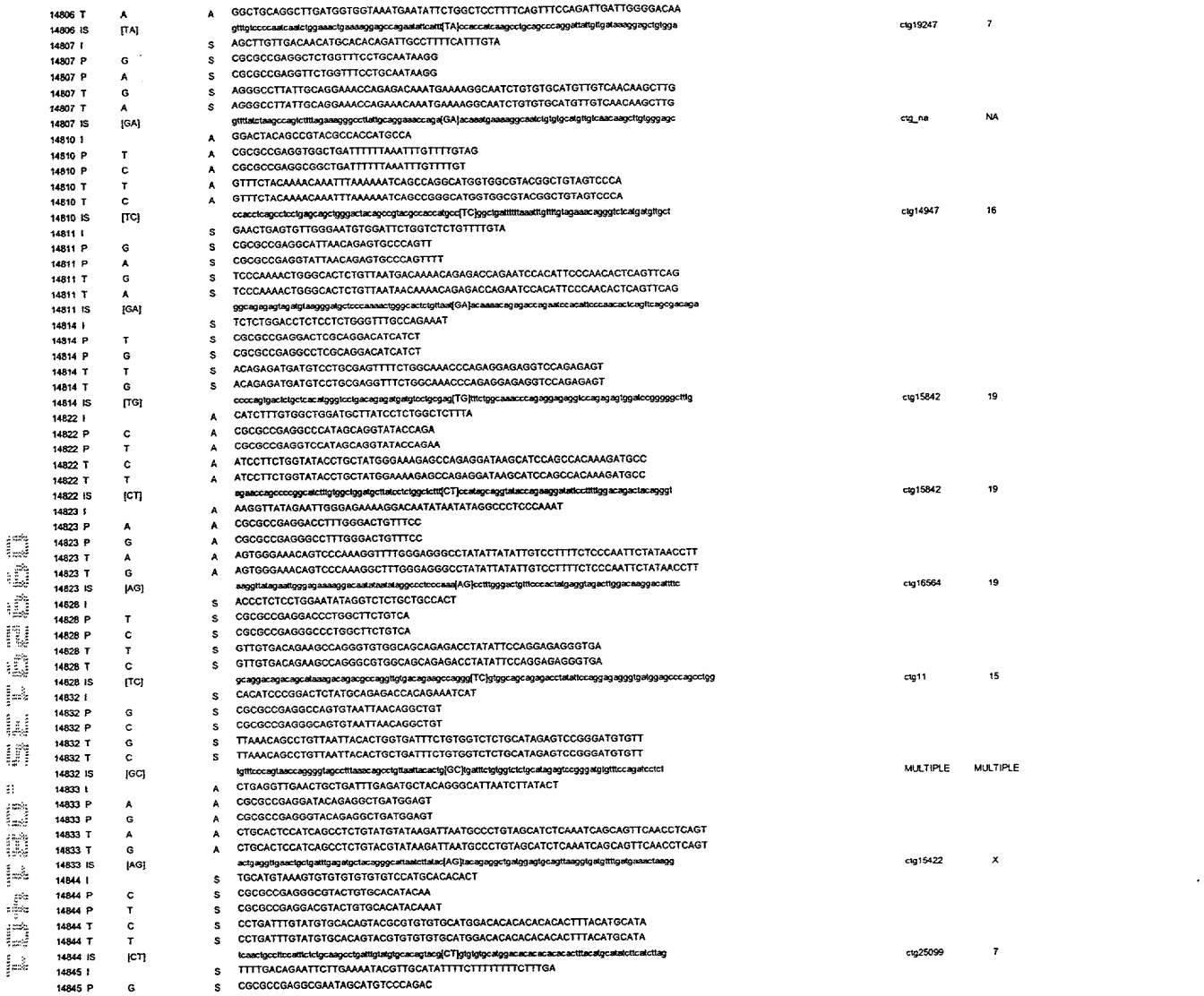
Confidential and Proprietary Information

FIGURE 129E

				AGCAGCGCGATGGTGGGCTGGAACAGCTGCGCCCAGGGCAGGCGGCCATG[GA]CGGCGGTGGGCCTCGGCATAGCCACGGAGCTCCCCGGGCACCCC			
7493	IS	[GA]		GATCCA	ctg15907	6	GGTLA1
7526	I		A	GCATGTTACAACTGCCCCTCCTGCCAGACC			
7526	P	G	A	CGCGCCGAGGGGTAAGCTTCGTCATCCTC			
7526	P	T	A	CGCGCCGAGGTGTAAGCTTCGTCATCCTCC			
7526	T	G	A	GGTAGGAGGATGACGAAGCTTACCGTCTGGCAGGAGGGGCAGTTGTAACATGCTG			
7526	T	T	A	GGTAGGAGGATGACGAAGCTTACAGTCTGGCAGGAGGGGCAGTTGTAACATGCTG			
				CATCTGTACTATCACAGCCCAGCATGTTACAACTGCCCCTCCTGCCAGAC[GT]GTAAGCTTCGTCATCCTCCTACCAAACACTCCTGTGCATCTTGCTGGCA			
7526	IS	[GT]		C	ctg25099	7	
7548	I		S	GCTGTTCTTTCTGTGGGGTTGGAGGCTCTGCA			
7548	P	G	S	CGCGCCGAGGCCTAGGTGAGAATGCAGGTTT			
7548	P	A	S	CGCGCCGAGGTCTAGGTGAGAATGCAGGGTTT			
7548	T	G	S	AGAGCCCTGCATTCTCACCTAGGGCAGAGCCTCCAACCCCACAGAAAGAACAGCGT			
7548	T	A	S	AGAGCCCTGCATTCTCACCTAGAGCAGAGCCTCCAACCCCACAGAAAGAACAGCGT			
				TCCAGGTCCCTCCCGGGATGCCTCCCACAGAGCCCTGCATTCTCACCTAG[GA]GCAGAGCCTCCAACCCCACAGAAAGAACAGCGTTCTCAGGGAAAACCT			
7548	IS	[GA]		GC	ctg15064	7	
7613	I		S	CACCGTGAGGGTTAAACGACAGAGCTCTAGGAATATACCTCT			
7613	P	T	S	CGCGCCGAGGACTCTAGCTGTTGTTGCTG			
7613	P	C	S	CGCGCCGAGGGCTCTAGCTGTTGTTGCT			
7613	T	T	S	GGACCAGCAACAACAGCTAGAGTGAGGTATATTCCTAGAGCTCTGTCGTTTAACCCTCACGGTGGC			
7613	T	C	S	GGACCAGCAACAACAGCTAGAGCGAGGTATATTCCTAGAGCTCTGTCGTTTAACCCTCACGGTGGC			
				TCCCTTCCCCGCCCGACTTACGCTCCCAGGACCAGCAACAACAGCTAGAG[TC]GAGGTATATTCCTAGAGCTCTGTCGTTTAACCCTCACGGTGGCCGAGT			
7613	IS	[TC]		GG	ctg15064	7	
7649	I		A	GCTGTGTGGGGTCCCAGCTCACCCT			
7649	P	C	A	CGCGCCGAGGCCTTCCCAGGTGGCCTTT			
7649	P	G	A	CGCGCCGAGGGCTTCCCAGGTGGCTTT			
7649	T	C	A	GCATGGCCACCTGGGAAGGGGGTGAGCTGGGACCCCACACAGCTA			
7649	T	G	A	GCATGGCCACCTGGGAAGCGGGTGAGCTGGGACCCCACACAGCTA			
				GGGACCCAGCTGTCCTTCCCCAGCTAGCTGTGTGGGGTCCCAGCTCACCC[CG]CTTCCCAGGTGGCCATGCCAGGTCCCAGCCCTTCCCCTCCCTGGGCA			
7649	IS	[CG]		GAT	ctg15665	20	
7688	I		A	CTTTCAGCTCGTTCCATTTCCTTGCTATTGTGAAGAATGCAGA			
7688	P	T	A	CGCGCCGAGGTAGTAAACATGCTAATTTGACAGGCY			
7688	P	C	A	CGCGCCGAGGCAGTAAACATGCTAATTTGACAGGY			
7688	T	T	A	TTAAGCCTGTCAAATTAGCATGTTTACTACTGCATTCTTCACAATAGCAAGGAAATGGAACGAGCTGAAAGGA			
7688	T	C	A	TTAAGCCTGTCAAATTAGCATGTTTACTGCTGCATTCTTCACAATAGCAAGGAAATGGAACGAGCTGAAAGGA			
				AAGGTTTCATTACCCATTCTTTTCCTGATGGTCCTTTCAGCTCGTTCCATTTCCTTGCTATTGTGAAGAATGCAG[TC]AGTAAACATGCTAATTTGACAGGCTT			
				AATTTCAGAATTATTTTTGCATCTTTAAGTCAATTAAAAAGTCATACTCTGCTTTTGATGTTCTGAAACTAATTACTATAGAATTCATGGTTCAAAACTGGCCGC			
7688	IS	[TC]		NGTTAAA	ctg14391	11	
7726	I		A	CTTGTCCCCTTTCACCCTCACAGCCTCTCCA			
7726	P	C	A	CGCGCCGAGGCTATGACAAGCAAGCCTAAGT			
7726	P	T	A	CGCGCCGAGGTTATGACAAGCAAGCCTAAGTC			
7726	T	C	A	AAAGGACTTAGGCTTGCTTGTCATAGGGAGAGGCTGTGAGGGTGAAAGGGGACAAGGT			
7726	T	T	A	AAAGGACTTAGGCTTGCTTGTCATAAGGAGAGGCTGTGAGGGTGAAAGGGGACAAGGT			
				CGGCCAGTAAATGAAAAGGAGCAGGAACTCATCACAAGGCCCTGGCTGGCACCCTCCAACCCAACACACCTTGTCCCCTTTCACCCTCACAGCCTCTCC[CT			
				]TATGACAAGCAAGCCTAAGTCCTTTCCCAAGAACAGTACCCAAGCGTTCCTTTCCCAGTGGACAGTGGGACAGAAAAGCCAGCCCAGTCCACAGCAAGGAG			
7726	IS	[CT]		G	ctg22fin4	22	
14737	I		S	CCCTAGATGAGTGCATCAGAGGAAGGTAGATACCTTGGTTTTC			
14737	P	A	S	CGCGCCGAGGTCTTTTTGGGAGCCAGCY			
14737	P	C	S	CGCGCCGAGGGCTTTTTGGGAGCCAGCY			
14737	T	A	S	CCTTGCTGGCTCCCAAAAAGAAAAACCAAGGTATCTACCTTCCTCTGATGCACTCATCTAGGGAA			
14737	T	C	S	CCTTGCTGGCTCCCAAAAAGCAAAACCAAGGTATCTACCTTCCTCTGATGCACTCATCTAGGGAA			
				CAGTGTGAGAAATGGTTCCTTTAGCACTAGCCTTGCTGGCTCCCAAAAAG[AC]AAAACCAAGGTATCTACCTTCCTCTGATGCACTCATCTAGGGAAGGGCG			
14737	IS	[AC]		T	ctg14072	17	
14750	I		S	CTGCTTTTATCCACTGTATGAGGATCCCCTCCATATAAATGATCTTCTACT			
14750	P	C	S	CGCGCCGAGGGCAGGCTTCTACCAAAACC			
14750	P	T	S	CGCGCCGAGGACAGGCTTCTACCAAAACC			
14750	T	C	S	ATGAGGTTTTGGTAGAAGCCTGCGTAGAAGATCATTTATATGGAGGGGATCCTCATACAGTGGATAAAAGCAG			
14750	T	T	S	ATGAGGTTTTGGTAGAAGCCTGTGTAGAAGATCATTTATATGGAGGGGATCCTCATACAGTGGATAAAAGCAG			
14750	IS	[CT]		aggttgaagaagatatatggctcagagaatgaggtttggtagaagcctg[CT]gtagaagatcatttatatggaggggatcctcatacagtggataaaagcag	ctg15140	12	
14751	I		A	GTAGCCAGTCTTGACTTGTTCCTACCCTTCAAAAAATGGTCAAGA			
14751	P	C	A	CGCGCCGAGGCTTCTGGGTGGTACTTAGTGA			
14751	P	T	A	CGCGCCGAGGTTTCTGGGTGGTACTTAGTGA			
14751	T	C	A	AGAGTCACTAAGTACCACCCAGAAGCTTGACCATTTTTTGAAGGGTAGGAACAAGTCAAGACTGGCTACCC			
14751	T	T	A	AGAGTCACTAAGTACCACCCAGAAACTTGACCATTTTTTGAAGGGTAGGAACAAGTCAAGACTGGCTACCC			
14751	IS	[CT]		caaagggtagccagtcttgacttgttcctaccctttcaaaaaatggtcaag[CT]ttctgggtggtacttagtgactctgaatatgcaggacacacagagataac	MULTIPLE	MULTIPLE	
14752	I		A	CTGAGTAGGGGAAACTACAGGTGTGTGCCACCT			
14752	P	A	A	CGCGCCGAGGACCACACCCAACTAATTTTAAAATT			
14752	P	C	A	CGCGCCGAGGCCCACACCCAACTAATTTTAAAAT			
14752	T	A	A	TACAAATAATTTTAAAATTAGTTGGGTGTGGTGGTGGCACACACCTGTAGTTTCCCCTACTCAGGA			
14752	T	C	A	TACAAATAATTTTAAAATTAGTTGGGTGTGGGGGTGGCACACACCTGTAGTTTCCCCTACTCAGGA			
14752	IS	[AC]		tcctcttgccgagcctcctgagtaggggaaactacaggtgtgtgccacc[AC]ccacacccaactaatttaaaaatatttgtagagagagggcttcccctgtg	ctg15330	9	
14755	I		S	GGAAGCATCCTTGTGTCTACCTGGGACAAGCTCAAT			
14755	P	T	S	CGCGCCGAGGAGTGTGCTTGGTGTACAAAC			
14755	P	G	S	CGCGCCGAGGCGTGTGCTTGGTGTACAA			
14755	T	T	S	CTAGGTTTGTACACCAAGCACACTTTGAGCTTGTCCCAGGTAGACACAAGGATGCTTCCTA			
14755	T	G	S	CTAGGTTTGTACACCAAGCACACGTTGAGCTTGTCCCAGGTAGACACAAGGATGCTTCCTA			
14755	IS	[TG]		gaaggaaggcccagctctcagaacatctaggtttgtacaccaagcacac[TG]tgagcttgtcccaggtagacacaaggatgctcctaaccacaggctggg	ctg13740	5	
14785	I		A	CTTGCTGCTGTGACGTCAGCTTCCCCATCA			
14785	P	C	A	CGCGCCGAGGCTCCCAGCCAGGCTTTT			
14785	P	T	A	CGCGCCGAGGTTCCCAGCCAGGCTGTTT			
14785	T	C	A	GGTCCAGCCTGGCTGGGAGGATGGGGAAGCTGACGTCACAGCAGCAAGGA			
14785	T	T	A	GGTCCAGCCTGGCTGGGAAGATGGGGAAGCTGACGTCACAGCAGCAAGGA			
14785	IS	[CT]		tgccaagtcactgtgcgcctcctgctgctgtgtgacgtcagcttccccatc[CT]tcccagccaggctggacctccgtgagaggcctgcctgtcctgcaccctgt	ctg15064	7	
14786	I		S	AGGGTTGCTACAACAGAATATCTGAGGCTGGGTAATTTATAAAGGAAGAT			
14786	P	C	S	CGCGCCGAGGGGTGTGTTTGGCTCATCAT			
14786	P	G	S	CGCGCCGAGGCGTGTGTTTGGCTCATCA			
14786	T	C	S	CAGAATGATGAGCCAAACACACCTCTTCCTTTATAAATTACCCAGCCTCAGATATTCTGTTGTAGCAACCCTA			
14786	T	G	S	CAGAATGATGAGCCAAACACACGTCTTCCTTTATAAATTACCCAGCCTCAGATATTCTGTTGTAGCAACCCTA			
14786	IS	[CG]		gctgcccagtcttggacttccagccatcagaatgatgagccaaacacac[CG]tcttccttatagaattacccagcctcagatatttctgttgtagcaacccta	ctg15064	7	
14797	I		A	GTAAATATTTCCCAAGCCTCCTCCATCCCTCCT			
14797	P	G	A	CGCGCCGAGGGCCACCCAAAATGCCA			
14797	P	A	A	CGCGCCGAGGACCACCCAAAATGCCAG			
14797	T	G	A	GGGCCTGGCATTTTGGGTGGCGGAGGGATGGAGGAGGCTTGGGAAATATTTACTA			
14797	T	A	A	GGGCCTGGCATTTTGGGTGGTGGAGGGATGGAGGAGGCTTGGGAAATATTTACTA			
14797	IS	[GA]		catcactigtcatttagtaaatatttcccaagcctcctccatcccctcc[GA]ccacccaaaatgccaggcccigtcctgcacactggggacccatacatcca	ctg18433	19	
14806	I		A	GTCCCCAATCAATCTGGAAACTGAAAAGGAGCCAGAATATTCATTTC			
14806	P	T	A	CGCGCCGAGGTCCACCATCAAGCCTGC			
14806	P	A	A	CGCGCCGAGGACCACCATCAAGCCTG			
14806	T	T	A	GGCTGCAGGCTTGATGGTGGAAAATGAATATTCTGGCTCCTTTTCAGTTTCCAGATTGATTGGGGACAA			

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FIGURE 129E



14806 T	A	A	GGCTGCAGGCTTGATGGTGGTAAATGAATATTCTGGCTCCTTTTCAGTTTCCAGATTGATTGGGGACAA			
14806 IS	[TA]		gtttgtcccaatcaatctggaaactgaaaaggagccagaatatgcattt[TA]ccaccatcaagcctgcagcccaggattatgtgatcaaggagctgtgga	ctg19247	7	
14807 I		S	AGCTTGTTGACAACATGCACACAGATTGCCTTTTCATTTGTA			
14807 P	G	S	CGCGCCGAGGCTCTGGTTTCCTGCAATAAGG			
14807 P	A	S	CGCGCCGAGGTTCTGGTTTCCTGCAATAAGG			
14807 T	G	S	AGGGCCTTATTGCAGGAAACCAGAGACAAATGAAAAGGCAATCTGTGTGCATGTTGTCAACAAGCTTG			
14807 T	A	S	AGGGCCTTATTGCAGGAAACCAGAAACAAATGAAAAGGCAATCTGTGTGCATGTTGTCAACAAGCTTG			
14807 IS	[GA]		gtttatctaagccagtctttagaaagggccttatgcaggaaaccaga[GA]acaaatgaaaaggcaatctgtgtgcatgttgtcaacaagcttgtgggagc	ctg_na	NA	
14810 I		A	GGACTACAGCCGTACGCCACCATGCCA			
14810 P	T	A	CGCGCCGAGGTGGCTGATTTTTTAAATTTGTTTTGTAG			
14810 P	C	A	CGCGCCGAGGCGGCTGATTTTTTAAATTTGTTTTGT			
14810 T	T	A	GTTTCTACAAAACAAATTTAAAAAATCAGCCAGGCATGGTGGCGTACGGCTGTAGTCCCA			
14810 T	C	A	GTTTCTACAAAACAAATTTAAAAAATCAGCCGGGCATGGTGGCGTACGGCTGTAGTCCCA			
14810 IS	[TC]		ccacctcagcctcctgagcagctgggactacaggcgtacgccaccatgcc[TC]ggctgattttttaaatttgtttgtagaaacagggtctcatgatgttgct	ctg14947	16	
14811 I		S	GAACTGAGTGTTGGGAATGTGGATTCTGGTCTCTGTTTTGTA			
14811 P	G	S	CGCGCCGAGGCATTAACAGAGTGCCCAGTTT			
14811 P	A	S	CGCGCCGAGGTATTAACAGAGTGCCCAGTTTT			
14811 T	G	S	TCCCAAAACTGGGCACTCTGTTAATGACAAAACAGAGACCAGAATCCACATTCCCAACACTCAGTTCAG			
14811 T	A	S	TCCCAAAACTGGGCACTCTGTTAATAACAAAACAGAGACCAGAATCCACATTCCCAACACTCAGTTCAG			
14811 IS	[GA]		ggcagagagtagatgtaagggatgctcccaaaactgggcactctgttaat[GA]acaaaacagagaccagaatccacattcccaacactcagttcagccagaca			
14814 I		S	TCTCTGGACCTCTCCTCTGGGTTTGCCAGAAAT			
14814 P	T	S	CGCGCCGAGGACTCGCAGGACATCATCT			
14814 P	G	S	CGCGCCGAGGCCTCGCAGGACATCATCT			
14814 T	T	S	ACAGAGATGATGTCCTGCGAGTTTTCTGGCAAACCCAGAGGAGAGGTCCAGAGAGT			
14814 T	G	S	ACAGAGATGATGTCCTGCGAGGTTTCTGGCAAACCCAGAGGAGAGGTCCAGAGAGT			
14814 IS	[TG]		cccagtgactctgctcacatgggtcctgacagagatgatgtcctgcgag[TG]tttctggcaaacccagaggagaggtccagagagtggatccgggggcttg	ctg15842	19	
14822 I		A	CATCTTTGTGGCTGGATGCTTATCCTCTGGCTCTTTA			
14822 P	C	A	CGCGCCGAGGCCCATAGCAGGTATACCAGA			
14822 P	T	A	CGCGCCGAGGTCCATAGCAGGTATACCAGAA			
14822 T	C	A	ATCCTTCTGGTATACCTGCTATGGGAAAGAGCCAGAGGATAAGCATCCAGCCACAAAGATGCC			
14822 T	T	A	ATCCTTCTGGTATACCTGCTATGGAAAAGAGCCAGAGGATAAGCATCCAGCCACAAAGATGCC			
14822 IS	[CT]		agaaccagccccggcatcttgtggctggatgcttatcctctggcatttt[CT]ccatgcaggtataccagaaggatatttccttttggacagactacagggt	ctg15842	19	
14823 I		A	AAGGTTATAGAATTGGGAGAAAAGGACAATATAATATAGGCCCTCCCAAAT			
14823 P	A	A	CGCGCCGAGGACCTTTGGGACTGTTTCC			
14823 P	G	A	CGCGCCGAGGGCCTTTGGGACTGTTTCC			
14823 T	A	A	AGTGGGAAACAGTCCCAAAGGTTTTGGGAGGGCCTATATTATATTGTCCTTTTCTCCCAATTCTATAACCTT			
14823 T	G	A	AGTGGGAAACAGTCCCAAAGGCTTTGGGAGGGCCTATATTATATTGTCCTTTTCTCCCAATTCTATAACCTT			
14823 IS	[AG]		aaggttatagaattgggagaaaaggacaatatatataggccctcccaaa[AG]ccttgggactgtttcccactatgaggtagacttggacaaggacatttttc	ctg16564	19	
14828 I		S	ACCCTCTCCTGGAATATAGGTCTCTGCTGCCACT			
14828 P	T	S	CGCGCCGAGGACCCTGGCTTCTGTCA			
14828 P	C	S	CGCGCCGAGGGCCCTGGCTTCTGTCA			
14828 T	T	S	GTTGTGACAGAAGCCAGGGTGTGGCAGCAGAGACCTATATTCCAGGAGAGGGTGA			
14828 T	C	S	GTTGTGACAGAAGCCAGGGCGTGGCAGCAGAGACCTATATTCCAGGAGAGGGTGA			
14828 IS	[TC]		gcaggacagacagcataaagacagacgccaggtgtgtgacagaagccaggg[TC]gtggcagcagagacctatattccaggagagggtgaggagccagcctgg	ctg11	15	
14832 I		S	CACATCCCGGACTCTATGCAGAGACCACAGAAATCAT			
14832 P	G	S	CGCGCCGAGGCCAGTGTAATTAACAGGCTGT			
14832 P	C	S	CGCGCCGAGGGCAGTGTAATTAACAGGCTGT			
14832 T	G	S	TTAAACAGCCTGTTAATTACACTGGTGATTTCTGTGGTCTCTGCATAGAGTCCGGGATGTGTT			
14832 T	C	S	TTAAACAGCCTGTTAATTACACTGCTGATTTCTGTGGTCTCTGCATAGAGTCCGGGATGTGTT			
14832 IS	[GC]		tgtttccagtaaccaggggtagcctttaaacagcctgttaattacactg[GC]tgatttctgtggtctctgcatagagtccgggatgtgtttccagatcctct	MULTIPLE	MULTIPLE	
14833 I		A	CTGAGGTTGAACTGCTGATTTGAGATGCTACAGGGCATTAATCTTATACT			
14833 P	A	A	CGCGCCGAGGATACAGAGGCTGATGGAGT			
14833 P	G	A	CGCGCCGAGGGTACAGAGGCTGATGGAGT			
14833 T	A	A	CTGCACTCCATCAGCCTCTGTATGTATAAGATTAATGCCCTGTAGCATCTCAAATCAGCAGTTCAACCTCAGT			
14833 T	G	A	CTGCACTCCATCAGCCTCTGTACGTATAAGATTAATGCCCTGTAGCATCTCAAATCAGCAGTTCAACCTCAGT			
14833 IS	[AG]		actgaggttgaactgctgatttgagatgctacagggcattaatcttatac[AG]tacagaggctgatggagtgcagttaaggtgatgtttgatgaaactaagg	ctg15422	X	
14844 I		S	TGCATGTAAAGTGTGTGTGTGTCCATGCACACACT			
14844 P	C	S	CGCGCCGAGGGCGTACTGTGCACATACAA			
14844 P	T	S	CGCGCCGAGGACGTACTGTGCACATACAAAT			
14844 T	C	S	CCTGATTTGTATGTGCACAGTACGCGTGTGTGCATGGACACACACACACACTTTACATGCATA			
14844 T	T	S	CCTGATTTGTATGTGCACAGTACGTGTGTGTGCATGGACACACACACACACTTTACATGCATA			
14844 IS	[CT]		tcaactgccttccatttctctgcaagcctgatttgtatgtgcacagtacg[CT]gtgtgtgcatggacacacacacacacacttacatgcatatcttcatcttag	ctg25099	7	
14845 I		S	TTTTGACAGAATTCTTGAAAATACGTTGCATATTTTCTTTTTTTTCTTTGA			
14845 P	G	S	CGCGCCGAGGCGAATAGCATGTCCCAGAC			
14845 P	A	S	CGCGCCGAGGTGAATAGCATGTCCCAGACA			
14845 T	G	S	AGTATGTCTGGGACATGCTATTCGCAAAGAAAAAAAAGAAAATATGCAACGTATTTTCAAGAATTCTGTCAAAA			
14845 T	A	S	AGTATGTCTGGGACATGCTATTCACAAAGAAAAAAAAGAAAATATGCAACGTATTTTCAAGAATTCTGTCAAAA			
14845 IS	[GA]		ttccttaaggtactggaaaaggttaagagtatgtctgggacatgctatc[GA]caaagaaaaaaagaaaatatgcaacgtatttcaagaattctgtcaaaa	ctg15665	20	
14849 I		S	GAAATACGTACTCAAATTGGCAACTGAATTTACCACTCAGCTCATTCTAAT			
14849 P	G	S	CGCGCCGAGGCACATGGTGATACTCCCCA			
14849 P	C	S	CGCGCCGAGGGACATGGTGATACTCCCCA			
14849 T	G	S	AATCTGGGGAGTATCACCATGTGTTAGAATGAGCTGAGTGGTAAATTCAGTTGCCAATTTGAGTACGTATTTC			
14849 T	C	S	AATCTGGGGAGTATCACCATGTCTTAGAATGAGCTGAGTGGTAAATTCAGTTGCCAATTTGAGTACGTATTTC			
14849 IS	[GC]		gaaaatttacttctgaatatatttataaatctgggggagtatcaccatgt[GC]ttagaatgagctgagtggtaaattcagttgccaatttgagtacgtatttc	ctg17103	4	
14853 I		S	CCATGGGAGAACCTCTTCCCCACTTTCAAC			
14853 P	A	S	CGCGCCGAGGTTACCTTCCCCTCTCTCC			
14853 P	C	S	CGCGCCGAGGGTACCTTCCCCTCTCTCC			
14853 T	A	S	GAAGGGAGAGAGGGGAAGGTAATTGAAAGTGGGGAAGAGGTTCTCCCATGGAT			
14853 T	C	S	GAAGGGAGAGAGGGGAAGGTACTTGAAAGTGGGGAAGAGGTTCTCCCATGGAT			
14853 IS	[AC]		aacctaacttttgtgtgatcctaagggagaagggagagagggggaaggta[AC]ttgaaagtggggaagaggttctcccatggatatttataacttgccatg	ctg3454	17	
14861 I		A	TGTCCTCCCACCCCCAGCTGCAGTTTAA			
14861 P	C	A	CGCGCCGAGGCCATTTTCAACATCCCCCT			
14861 P	T	A	CGCGCCGAGGTCATTTTCAACATCCCCCTTT			
14861 T	C	A	ATGAAAAGGGGGATGTTGAAAATGGTAAACTGCAGCTGGGGGTGGGAGGACACT			
14861 T	T	A	ATGAAAAGGGGGATGTTGAAAATGATAAACTGCAGCTGGGGGTGGGAGGACACT			
14861 IS	[CT]		ataccaactaaggggatcaggagtgtcctcccaccccagctgcagttta[CT]catttcaacatcccccttttcatcttaatctcaggtaagtcttgccttg	ctg17403	17	
14868 I		S	TCACATCCAGTTTCTCTGATTCCATCTCCAGTGCTGTCTTA			
14868 P	A	S	CGCGCCGAGGTGGTCCCCAGAGGTTATG			
14868 P	G	S	CGCGCCGAGGCGGTCCCCAGAGGTTAT			
14868 T	A	S	TGTCCATAACCTCTGGGGACCAAAGACAGCACTGGAGATGGAATCAGAGAAACTGGATGTGAAA			
14868 T	G	S	TGTCCATAACCTCTGGGGACCGAAGACAGCACTGGAGATGGAATCAGAGAAACTGGATGTGAAA			
14868 IS	[AG]		gctacctgccaggccgctgtagacatttgtgtccataacctctggggacc[AG]aagacagcactggagatggaatcagagaaactggatgtgaaacatgtatc	ctg22fin3	22	
14870 I		S	GTGGGCAGGCCCAGCACAGTCACTA			
14870 P	G	S	CGCGCCGAGGCCAGTTCCTGCAGTGC			
14870 P	A	S	CGCGCCGAGGTCAGTTCCTGCAGTGCA			
14870 T	G	S	ATAGTGCACTGCAGGAACTGGAGTGACTGTGCTGGGCCTGCCCACCT			
14870 T	A	S	ATAGTGCACTGCAGGAACTGAAGTGACTGTGCTGGGCCTGCCCACCT			
14870 IS	[GA]		gtggcccagcagtgaccactggtgctatgatagtgcactgcaggaactg[GA]agtgactgtgctgggcctgcccacctggatcaaagctctcaccccttatt	ctg21fin2	21	
14977 I		S	TGACAGAGTTGAGTAGTGGCAACAGAGACCCA			

FIGURE 129E

14977 P	G	S	CGCGCCGAGGCACCGTTTGCAAATCATAACATAT			
14977 P	A	S	CGCGCCGAGGTACCGTTTGCAAATCATAACATATTTA			
14977 T	G	S	ATAGTAAATATGTTATGATTTGCAAACGGTGGGGTCTCTGTTGCCACTACTCAACTCTGTCATT			
14977 T	A	S	ATAGTAAATATGTTATGATTTGCAAACGGTAGGGTCTCTGTTGCCACTACTCAACTCTGTCATT			
14977 IS	[GA]		CAGGAAGACTGGGAAGAAGACTATTGGAATACGCCAGGCACCAGGATTTGGAAAGCTTTCTGAAGGGGGCAAAATAGTAAATATGTTATGATTTGCAAACG GT[GA]GGGTCTCTGTTGCCACTACTCAACTCTGTCATTTTAGAATGAAAGAAGCCATATATTATATGTAAACAAATGGGTGTGTGTGCATTCCAATAAAACTTC ATT	ctg16537	20	
14978 I		S	CCCATGTTGTAGCATGCACCTTCATTCCTTTTTATGGCTT			
14978 P	T	S	CGCGCCGAGGAAATAATATTCCGTGGTGTAGATAGAG			
14978 P	C	S	CGCGCCGAGGGAATAATATTCCGTGGTGTAGATAGAG			
14978 T	T	S	TGTACTCTATCTACACCACGGAATATTATTTAGCCATAAAAAGGAATGAAGGTGCATGCTACAACATGGGTA			
14978 T	C	S	TGTACTCTATCTACACCACGGAATATTATTCAGCCATAAAAAGGAATGAAGGTGCATGCTACAACATGGGTA			
14978 IS	[TC]		ACATATACATATGGTCTCATAGCAGCATTAATCACAACAGCCAAAGTGGAAACATCCCAAGTGTCCATCAACTGATGAATGGATAAGCAAAATGTACTCTATC TACACCACGGAATATTATT[TC]AGCCATAAAAAGGAATGAAGGTGCATGCTACAACATGGGTAAACTTTGAAAACATTATGCTGAGTGAAATAAGCCAGACAC A	ctg18037	7	
14981 I		S	ACCTTAACTTTCAATGCCTTGATTTCCTTCTTTATAAAATGGGAAAAATGT			
14981 P	C	S	CGCGCCGAGGGTAACTCTTGTCTTGTAGGGTTG			
14981 P	T	S	CGCGCCGAGGATAACTCTTGTCTTGTAGGGTTG			
14981 T	C	S	ATAACAACCCTACAAGACAAGAGTTACCATTTTTCCCATTTTATAAAGAAGGAAATCAAGGCATTGAAAGTTAAGGTGA			
14981 T	T	S	ATAACAACCCTACAAGACAAGAGTTATCATTTTTCCCATTTTATAAAGAAGGAAATCAAGGCATTGAAAGTTAAGGTGA			
14981 IS	[CT]		CTACCCGCCTCGGCCTCCCAAAGCGCTGGGATTACAGGCGTGAGCCACCGCGCCCAGCAAGTTTTGTTTCTTTCAAGTCCATAACAACCCTACAAGACAAG AGTTA[CT]CATTTTTCCCATTTTATAAAGAAGGAAATCAAGGCATTGAAAGTTAAGGTGACTTACCCAATCACCCGTAGGAAGTGGCAGAGCCAGGATTTGAA GCC	ctg_na	NA	
15031 I		S	GGGAAAGCAAAATAAAAAATAAAAAAATATAAAATCAGTATTATTTTTCTATGCTAATTTC			
15031 P	A	S	CGCGCCGAGGTTAAATGATTTCCATTAGCTTATTTTTGG			
15031 P	C	S	CGCGCCGAGGGTAAATGATTTCCATTAGCTTATTTTTGG			
15031 T	A	S	TTTACCAAAAATAAGCTAATGGAAATCATTTAAAAATTAGCATAGAAAAATAATACTGATTTTATATTTTTTTATTTTTTATTTTGCTTTCCCCA			
15031 T	C	S	TTTACCAAAAATAAGCTAATGGAAATCATTTACAAATTAGCATAGAAAAATAATACTGATTTTATATTTTTTTATTTTTTATTTTGCTTTCCCCA			
15031 IS	[AC]		CCAAATGCAGACGACATCCAGGAAAATATATAGTCTTTTTCTTATTTACCAAAAATAAGCTAATGGAAATCATTTA[AC]AAATTAGCATAGAAAAATAATACTGA TTTTATATTTTTTTATTTTTTATTTTGCTTTCCCCAAATGTACTGATCACACTCCAGGCTCCCCCAAAATCTAGACAGTGCTTTCTTCCATCTCTGAAGGGTGTT AAAACC	ctg24	15	
5105 I		S	ACATAAGGAGACATAGCCTACTTTAGCCCAAAACTTCA			
5105 P	A	S	CGCGCCGAGGTTTCACTTGTTATGTCCTTTTAC			
5105 P	G	S	ATGACGTGGCAGACCTTCACTTGTTATGTCCTTTTAC			
5105 T	A	S	AGAGGTAAAAGGACATAACAAGTGAAAGAAGTTTTGGGCTAAAGTAGGCTATGTCTCCTTATGTAT			
5105 T	G	S	AGAGGTAAAAGGACATAACAAGTGAAGGAAGTTTTGGGCTAAAGTAGGCTATGTCTCCTTATGTAT			
5105 IS	[AG]		AAGAAGATCCGAGTTTATTTCATTCTATGTTTTAAGAGGTAAAAGGACATAACAAGTGAA[AG]GAAGTTTTGGGCTAAAGTAGGCTATGTCTCCTTATGTATTA CTCAATACTGTTTTGCAGA	ctg16279	17	
6072 I		A	AGACAGGACAAGGAGGGCTCATGCCCT			
6072 P	C	A	ATGACGTGGCAGACCGCCCGGCTGCY			
6072 P	A	A	CGCGCCGAGGAGCCCGGCTGCY			
6072 T	C	A	CCTTGCAGCCGGGCGGGGCATGAGCCCTCCTTGTCCTGTCTGA			
6072 T	A	A	CCTTGCAGCCGGGCTGGGCATGAGCCCTCCTTGTCCTGTCTGA			
6072 IS	[CA]		ATAGTCCAAGGTGGGATTTTGCCACCAGTCAGTCAGACAGGACAAGGAGGGCTCATGCCC[CA]GCCCGGCTGCAAGGACAGGCCACAGGGAGGTGTGATA GGCTCGGCAGCTCCTGGGCACCA	ctg3235	11	
6395 I		A	TGTCCTCTTGACAAAGGTCTAACCTACAAGTCTCCCACT			
6395 P	A	A	CGCGCCGAGGAGAATTTGCGCTGGTCY			
6395 P	G	A	ATGACGTGGCAGACGGAATTTGCGCTGGTY			
6395 T	A	A	GTAAGACCAGCGCAAATTCTGTGGGAGACTTGTAGGTTAGACCTTTGTCAAGAGGACAAA			
6395 T	G	A	GTAAGACCAGCGCAAATTCCGTGGGAGACTTGTAGGTTAGACCTTTGTCAAGAGGACAAA			
6395 IS	[AG]		CCAGACCTTTAGATGTCAGTTTTGTCCTCTTGACAAAGGTCTAACCTACAAGTCTCCCAC[AG]GAATTTGCGCTGGTCTTACTGTGTTCTTAATCTCTTTTCCT GTCTCACCAGGGTTGCAGG	ctg13206	14	
6694 I		A	GTGACCCTGAGTTGCACATATGACACCAGTGAGAT			
6694 P	A	A	CGCGCCGAGGATAATTATTATTTGTTCTGGTACAAGCY			
6694 P	G	A	ATGACGTGGCAGACGTAATTATTATTTGTTCTGGTACAAGY			
6694 T	A	A	GGCTGCTTGTACCAGAACAAATAATAATTATTCTCACTGGTGTCATATGTGCAACTCAGGGTCACAG			
6694 T	G	A	GGCTGCTTGTACCAGAACAAATAATAATTACTCTCACTGGTGTCATATGTGCAACTCAGGGTCACAG			
6694 IS	[AG]		AGATGTCTGTGCAGGAGGCAGAGACTGTGACCCTGAGTTGCACATATGACACCAGTGAGA[AG]TAATTATTATTTGTTCTGGTACAAGCAGCCTCCCAGCAG GCAGATGATTCTCGTTATTCG			
12358 I		S	GAGGGCAGGGCTTGACTGGGAGCTAGT			
12358 P	C	S	ATGACGTGGCAGACGGGCCCCTGAGCY			
12358 P	G	S	CGCGCCGAGGCGGCCCCTGAGCY			
12358 T	C	S	ACTGGCTCAGGGGCCCCTAGCTCCCAGTCAAGCCCTGCCCTCCT			
12358 T	G	S	ACTGGCTCAGGGGCCGCTAGCTCCCAGTCAAGCCCTGCCCTCCT			
12358 IS	[CG]		AGGTGCCCCAGGAGCCACCTGCTCCACTCATCCACAAAGGCCTTAACTGGCTCAGGGGCC[CG]CTAGCTCCCAGTCAAGCCCTGCCCTCCTGACCTTGTC CTGCCCTGGTGCTGCCAGTCGGG	ctg15811	4	
15061 I		S	GTACTCACATCTCGAGTGATAATCTCAGGGTTGATGATGA			
15061 P	A	S	CGCGCCGAGGTCGAAGAGGCTCACGCY			
15061 P	G	S	CGCGCCGAGGCCGAAGAGGCTCACGY			
15061 T	A	S	AAAGGCGTGAGCCTCTTCGACATCATCAACCCTGAGATTATCACTCGAGATGTGAGTAC			
15061 T	G	S	AAAGGCGTGAGCCTCTTCGGCATCATCAACCCTGAGATTATCACTCGAGATGTGAGTAC			
15061 IS	[AG]		CGAGGTAGTGTTTACAGCCCTCATGAACAGCAAAGGCGTGAGCCTCTTCG[AG]CATCATCAACCCTGAGATTATCACTCGAGATGTGAGTAC	ctg21fin5	21	
16827 I		A	CGCTAGAATGTCAACTCATTATGCTCTTCAGTGCTCTATATCCTGAAT			
16827 P	A	A	CGCGCCGAGGATGGGTATCACAAGACCAY			
16827 P	G	A	ATGACGTGGCAGACGTGGGTATCACAAGACCAY			
16827 T	A	A	TGAGTGGTCTTGTGATACCCATTTCAGGATATAGAGCACTGAAGAGCATAATGAGTTGACATTCTAGCGTC			
16827 T	G	A	TGAGTGGTCTTGTGATACCCACTTCAGGATATAGAGCACTGAAGAGCATAATGAGTTGACATTCTAGCGTC			
16827 IS	[AG]		ATAGGGAATGGGACGCTAGAATGTCAACTCATTATGCTCTTCAGTGCTCTATATCCTGAA[AG]TGGGTATCACAAGACCACTCAAATAAGGGCAGAGGGATG GCCTGGGGTAGATGCCACAGA	ctg13321	5	
4067 I		A	CCTCTGCCTAATGCCTAAGATGTTAAATCTGAACTTGATTTGCCATTAATT			
4067 P	A	A	CGCGCCGAGGACAGTTGTTCAGGATGTGATG			
4067 P	G	A	CGCGCCGAGGGCAGTTGTTCAGGATGTGAT			
4067 T	A	A	GGGACATCACATCCTGAACAACTGTATTAATGGCAAATCAAGTTCAGATTTAACATCTTAGGCATTAGGCAGAGG			
4067 T	G	A	GGGACATCACATCCTGAACAACTGCATTAATGGCAAATCAAGTTCAGATTTAACATCTTAGGCATTAGGCAGAGG			
4067 IS	[AG]		CCTCTGCCTAATGCCTAAGATGTTAAATCTGAACTTGATTTGCCATTAAT[AG]CAGTTGTTCAGGATGTGATGTCCCCAGTTCTCTCTCCATGAATGTGGGGG	ctg17782	X	
6993 I		A	TCTCAGGGTATGCTTAAATTATTGCTATCAGGTACATTTATCATACCACCA			
6993 P	T	A	CGCGCCGAGGTACATACCTTTCCTGAACAAGTG			
6993 P	C	A	CGCGCCGAGGCACATACCTTTCCTGAACAAGT			
6993 T	T	A	TCCTCACTTGTTCAGGAAAGGTATGTAGGTGGTATGATAAATGTACCTGATAGCAATAATTTAAGCATACCCTGAGA			
6993 T	C	A	TCCTCACTTGTTCAGGAAAGGTATGTGGGTGGTATGATAAATGTACCTGATAGCAATAATTTAAGCATACCCTGAGA			
6993 IS	[TC]		TCTCAGGGTATGCTTAAATTATTGCTATCAGGTACATTTATCATACCACC[TC]ACATACCTTTCCTGAACAAGTGAGGAAAAGATGCACTCAAGTCAATCAGG	ctg17490	X	
6996 I		A	GGCCTGTGTCCCTCAAGCTGGACGTGT			
6996 P	A	A	CGCGCCGAGGACCTGAGGCACACGGY			
6996 P	C	A	CGCGCCGAGGCCCTGAGGCACACGGY			

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FIGURE 129E

6996 T	A	A	CTTTCCGTGTGCCTCAGGTCACGTCCAGCTTGAGGGACACAGGCCTG				
6996 T	C	A	CTTTCCGTGTGCCTCAGGGCACGTCCAGCTTGAGGGACACAGGCCTG				
6996 IS	[AC]		ATGTAATCAGAGCTCTTGGGGACAGGCCTGTGTCCCTCAAGCTGGACGTG[AC]CCTGAGGCACACGGAAAGTACAGCCCCAATGAGTGGCCTTGGCCTCT GCC	ctg13206	14		
6997 I		A	CCCGCAGCGAAGGTTATGTTAATACAATCAGCTTTTT				
6997 P	A	A	CGCGCCGAGGACTCCGCCATGAAGTCC				
6997 P	G	A	CGCGCCGAGGGCTCCGCCATGAAGTC				
6997 T	A	A	AGAAGGACTTCATGGCGGAGTAAAAGCTGATTGTATTAACATAACCTTCGCTGCGGGAA				
6997 T	G	A	AGAAGGACTTCATGGCGGAGCAAAAGCTGATTGTATTAACATAACCTTCGCTGCGGGAA				
6997 IS	[AG]		GTTCTTTTGAGATTCCCGCAGCGAAGGTTATGTTAATACAATCAGCTTTT[AG]CTCCGCCATGAAGTCCTTCTCGTGCTTTCTGGTGGAGAGTAATCTCCAGT	ctg15907	6		
7022 I		A	CTTCCCATTCCCCACACTCTCCAGTCCA				
7022 P	T	A	CGCGCCGAGGTCTCTCCTCCCTTATTGCAG				
7022 P	C	A	CGCGCCGAGGCCTCTCCTCCCTTATTGCA				
7022 T	T	A	GAGCCTGCAATAAGGGAGGAGAGAGGACTGGAGAGTGTGGGGAATGGGAAGAA				
7022 T	C	A	GAGCCTGCAATAAGGGAGGAGAGGGGACTGGAGAGTGTGGGGAATGGGAAGAA				
7022 IS	[TC]		CTTTAGTCCAAAGTAAACTACTTCTTCCCATTCCCCACACTCTCCAGTCC[TC]CTCTCCTCCCTTATTGCAGGCTCCAGTGTTCCTGCCTTCTCCTTGGTGCA	ctg15907	6	APOL2	
7107 I		S	GGAGGTTAGAATTCTATACCTTAGCATTTCTCTCCCTTTTCCTCAACAACT				
7107 P	G	S	CGCGCCGAGGCCAGCCCCTCAAGAATATC				
7107 P	C	S	CGCGCCGAGGGCAGCCCCTCAAGAATATC				
7107 T	G	S	CTTGGATATTCTTGAGGGGCTGGGTTGTTGAGGAAAAGGGAGAGAAATGCTAAGGTATAGAATTCTAACCTCC				
7107 T	C	S	CTTGGATATTCTTGAGGGGCTGCGTTGTTGAGGAAAAGGGAGAGAAATGCTAAGGTATAGAATTCTAACCTCC				
7107 IS	[GC]		AGGCATGAGCTACCGCACCCTGCCATTTCTTGGATATTCTTGAGGGGCTG[GC]GTTGTTGAGGAAAAGGGAGAGAAATGCTAAGGTATAGAATTCTAACCTC C	ctg17341	14		
7157 I		A	ATCCCTTCTCCTCTCACCTCCCAACCCTGAA				
7157 P	T	A	CGCGCCGAGGTATTTCTTCCTTCCACCCCA				
7157 P	C	A	CGCGCCGAGGCATTTCTTCCTTCCACCCC				
7157 T	T	A	CGGGTGGGGTGGAAGGAAGAAATATCAGGGTTGGGAGGTGAGAGGAGAAGGGATGC				
7157 T	C	A	CGGGTGGGGTGGAAGGAAGAAATGTCAGGGTTGGGAGGTGAGAGGAGAAGGGATGC				
7157 IS	[TC]		TCCTCCCCCACTGAGGCTGCATCCCTTCTCCTCTCACCTCCCAACCCTGA[TC]ATTTCTTCCTTCCACCCCACCCGGCTGTATTCTCTCTCCCTCTCTCTCCC	ctg15907	6		
7162 I		S	GCTGGCCCTGCAATCGTCCTGGTCACATTATTT				
7162 P	G	S	CGCGCCGAGGCTCCTGCATAACAACATCTATGT				
7162 P	T	S	CGCGCCGAGGATCCTGCATAACAACATCTATGT				
7162 T	G	S	AGAGACATAGATGTTGTTATGCAGGAGAATAATGTGACCAGGACGATTGCAGGGCCAGCCC				
7162 T	T	S	AGAGACATAGATGTTGTTATGCAGGATAATAATGTGACCAGGACGATTGCAGGGCCAGCCC				
7162 IS	[GT]		AAGGTCTTTAGTTGAGTAGGAAAGAGAGACATAGATGTTGTTATGCAGGA[GT]AATAATGTGACCAGGACGATTGCAGGGCCAGCCCCCTTAGGCAGCCTC TG				
7166 I		A	GGTTGAGTGTTCTAGGGCAGGTGCAATAGAACT				
7166 P	G	A	CGCGCCGAGGGATGACGGAGATCCTCCCY				
7166 P	A	A	CGCGCCGAGGAATGACGGAGATCCTCCCY				
7166 T	G	A	GGGAGGGAGGATCTCCGTCATCGTTCTATTGCACCTGCCCTAGAACACTCAACCTT				
7166 T	A	A	GGGAGGGAGGATCTCCGTCATTGTTCTATTGCACCTGCCCTAGAACACTCAACCTT				
7166 IS	[GA]		ATCGGTGGATTGATTCAAGGTTGAGTGTTCTAGGGCAGGTGCAATAGAAC[GA]ATGACGGAGATCCTCCCTCCCTCCCTCCCTCCCTCCCTTC TT	ctg14391	11		
7171 I		A	CCAAGACCCTTAAGTTTTCATGCAGACAATTGGATGTTATTTCTCTCTGAA				
7171 P	C	A	CGCGCCGAGGCCCAACATTTTTCAAACAGTATTCC				
7171 P	T	A	CGCGCCGAGGTCCAACATTTTTCAAACAGTATTCC				
7171 T	C	A	CCAAGGAATACTGTTTGAAAAATGTTGGGTCAGAGAGAAATAACATCCAATTGTCTGCATGAAAACTTAAGGGTCTTGG				
7171 T	T	A	CCAAGGAATACTGTTTGAAAAATGTTGGATCAGAGAGAAATAACATCCAATTGTCTGCATGAAAACTTAAGGGTCTTGG				
7171 IS	[CT]		CCAAGACCCTTAAGTTTTCATGCAGACAATTGGATGTTATTTCTCTCTGA[CT]CCAACATTTTTCAAACAGTATTCCTTGGAACCCAACAAAAGTTCCACAAG	ctg16400	17		
7185 I		S	GCGCAGGTGGTCAGAAAGCCCCTCTGC				
7185 P	T	S	CGCGCCGAGGAGAGGGTCAGACCTCAAG				
7185 P	A	S	CGCGCCGAGGTGAGGGTCAGACCTCAAG				
7185 T	T	S	CATTCTTGAGGTCTGACCCTCTCAGAGGGGCTTTCTGACCACCTGCGCTG				
7185 T	A	S	CATTCTTGAGGTCTGACCCTCACAGAGGGGCTTTCTGACCACCTGCGCTG				
7185 IS	[TA]		TTCTCCACACTGCATAGCTGACTCCTTCTCATTCTTGAGGTCTGACCCTC[TA]CAGAGGGGCTTTCTGACCACCTGCGCTGCGTTGCTCTGCCCTGTCTTCT C	ctg17731	1		
7248 I		A	AATTCTCCATTTACAACTTAAACCTAAAGATGTGAGTTGAAAGGCTATAAA				
7248 P	T	A	CGCGCCGAGGTATTATTAGCTGCTGGGCTGTTT				
7248 P	C	A	CGCGCCGAGGCATTATTAGCTGCTGGGCTTTT				
7248 T	T	A	ATGTCAGCCCAGCAGCTAATAATATTATAGCCTTTCAACTCACATCTTTAGGTTTAAGTTGTAAATGGAGAATT				
7248 T	C	A	ATGTCAGCCCAGCAGCTAATAATGTTATAGCCTTTCAACTCACATCTTTAGGTTTAAGTTGTAAATGGAGAATT				
7248 IS	[TC]		AATTCTCCATTTACAACTTAAACCTAAAGATGTGAGTTGAAAGGCTATAA[TC]ATTATTAGCTGCTGGGCTGACATCTTGATCCATGATATTTTAGCCCAGAG	ctg15944	11		
7282 I		A	CAAAGACACTCAAAGATGGTTTTGTTTTGTTTTTGTCCAGTAATTCTTTTA				
7282 P	C	A	CGCGCCGAGGCGGAATTTCTCCAAAGGAAATAATC				
7282 P	T	A	CGCGCCGAGGTGGAATTTCTCCAAAGGAAATAATC				
7282 T	C	A	CACTGATTATTTCCTTTGGAGAAATTCCGAAAAGAATTACTGGACAAAAACAAAACAAAACCATCTTTGAGTGTCTTTG				
7282 T	T	A	CACTGATTATTTCCTTTGGAGAAATTCCAAAAAGAATTACTGGACAAAAACAAAACAAAACCATCTTTGAGTGTCTTTG				
7282 IS	[CT]		CAAAGACACTCAAAGATGGTTTTGTTTTGTTTTTGTCCAGTAATTCTTTT[CT]GGAATTTCTCCAAAGGAAATAATCAGTGATGAGGTTAAAAAAAATTGTCT	ctg5212	19		
7324 I		A	CAAATTGGAATGAATTCTCTGGATATAGTATCTTTGAGGAAACTCAGTCCA				
7324 P	C	A	CGCGCCGAGGCGCCACCCCTTCATG				
7324 P	T	A	CGCGCCGAGGTGCCACCCCTTCATGT				
7324 T	C	A	ATGGACATGAAGGGGTGGCGGGACTGAGTTTCCTCAAAGATACTATATCCAGAGAATTCATTCCAATTTG				
7324 T	T	A	ATGGACATGAAGGGGTGGCAGGACTGAGTTTCCTCAAAGATACTATATCCAGAGAATTCATTCCAATTTG				
7324 IS	[CT]		CAAATTGGAATGAATTCTCTGGATATAGTATCTTTGAGGAAACTCAGTCC[CT]GCCACCCCTTCATGTCCATCATCTTACAAACATGGCTTAAAACTTACCTA				
7469 I		S	AGTTTTCAATCAAATTCAAAGACAGTGTGTATACAATTCCTTTCACAACCA				
7469 P	G	S	CGCGCCGAGGCGTCATATCCTCACCTCCA				
7469 P	A	S	CGCGCCGAGGTGTCATATCCTCACCTCCAT				
7469 T	G	S	GAGGATGGAGGTGAGGATATGACGGGTTGTGAAAGGAATTGTATACACACTGTCTTTGAATTTGATTGAAAACT				
7469 T	A	S	GAGGATGGAGGTGAGGATATGACAGGTTGTGAAAGGAATTGTATACACACTGTCTTTGAATTTGATTGAAAACT				
7469 IS	[GA]		AGAGGAAACTGGGCAATAGCTGCAGATGAGGATGGAGGTGAGGATATGAC[GA]GGTTGTGAAAGGAATTGTATACACACTGTCTTTGAATTTGATTGAAAAC T	ctg15053	16		
14416 I		S	CTAGTTGGGCAGGGGCCTGGGGAAT				
14416 P	C	S	CGCGCCGAGGGTAGACCTGCTTGAATGACTAGY				
14416 P	T	S	CGCGCCGAGGATAGACCTGCTTGAATGACTAGY				
14416 T	C	S	GGAGCTAGTCATTCAAGCAGGTCTACTTCCCCAGGCCCCTGCCCAACTAGGT				
14416 T	T	S	GGAGCTAGTCATTCAAGCAGGTCTATTTCCCCAGGCCCCTGCCCAACTAGGT				
14416 IS	[CT]		ATGGAGCCTGAACCCGTAACAAGTCTCAGAGGCAGGCCGTAGGAGGAGCTAGGCCAGCAGGAGCTAGTCATTCAAGCAGGTCTA[CT]TTCCCCAGGCCCC TGCCCAACTAGGTCCTCTGATGCCTTCCTTTACCCACCAGCTGCTGTTAGTGAGGATCCAACAGGCCTGCCTCTGGCCAGTCTGCAGTACGACAGGGTCCA ATG	ctg12387	2		
14736 I		S	CACGGTGTTAATTTTGGCAACCCTATCCTGGAATTCTAGACTTT				
14736 P	C	S	CGCGCCGAGGGGATCACCAACATTGTTGTCTY				
14736 P	G	S	CGCGCCGAGGCGATCACCAACATTGTTGTCTY				

FIGURE 129E

14736 T	C	S	ACTGAGACAACAATGTTGGTGATCCAAGTCTAGAATTCCAGGATAGGGTTGCCAAAATTAACACCGTGGG			
14736 T	G	S	ACTGAGACAACAATGTTGGTGATCGAAGTCTAGAATTCCAGGATAGGGTTGCCAAAATTAACACCGTGGG			
14736 IS	[CG]		GACAAGACTTATAGCTCTTTACTTTAACTGAGACAACAATGTTGGTGATC[CG]AAGTCTAGAATTCCAGGATAGGGTTGCCAAAATTAACACCGTGGGAGTAT	ctg15907	6	
14780 I		A	TGTCCCTCTTTCTCTTTCTTCCTCACCTTCTCTCCCCT			
14780 P	C	A	CGCGCCGAGGCCTATCTCCCTTCTGTTTTTCAA			
14780 P	G	A	CGCGCCGAGGGCTATCTCCCTTCTGTTTTTCA			
14780 T	C	A	CCCGTTGAAAAACAGAAGGGAGATAGGGGGGAGAGAAGGTGAGGAAGAAAGAGAAAGAGGGACAGT			
14780 T	G	A	CCCGTTGAAAAACAGAAGGGAGATAGCGGGGAGAGAAGGTGAGGAAGAAAGAGAAAGAGGGACAGT			
14780 IS	[CG]		atatgtggaacactgtcccctcttctcttcttcctcacctctctcccc[CG]ctatctccctctcgtttttcaacgggagagactctttaacagctcagtg	ctg13446	1	
14819 I		S	TGACAGAAATGCCATTATACCTCTCAGTCTAGCTCTCTCTTTCCATTAGAA			
14819 P	G	S	CGCGCCGAGGCCGTATGGTCTTGTAGACTATC			
14819 P	A	S	CGCGCCGAGGTCGTATGGTCTTGTAGACTATCC			
14819 T	G	S	TTAAGGATAGTCTACAAGACCATACGGTCTAATGGAAAGAGAGAGCTAGACTGAGAGGTATAATGGCATTTCTGTCA			
14819 T	A	S	TTAAGGATAGTCTACAAGACCATACGATCTAATGGAAAGAGAGAGCTAGACTGAGAGGTATAATGGCATTTCTGTCA			
14819 IS	[GA]		gtagggtgttacgttggtcagttttaaggatagtctacaagaccatacg[GA]tctaatggaaagagagagctagactgagaggtataatggcatttctgtca	ctg22fin3	22	
14827 I		A	CCAGTATCACCTGTGCTTGAACGCATTGCCCA			
14827 P	T	A	CGCGCCGAGGTGCTTAATCCTCATGATACCC			
14827 P	C	A	CGCGCCGAGGCGCTTAATCCTCATGATACCC			
14827 T	T	A	CTAGGGGTATCATGAGGATTAAGCAGGGCAATGCGTTCAAGCACAGGTGATACTGGCT			
14827 T	C	A	CTAGGGGTATCATGAGGATTAAGCGGGGCAATGCGTTCAAGCACAGGTGATACTGGCT			
14827 IS	[TC]		tcatggccatgtcaggaagccagtatcacctgtgcttgaacgcattgccc[TC]gcttaatcctcatgatacccctaggggaggggaggtggcattgtgcccat	ctg15478	1	
14856 I		A	CCTTCTCTGCCCTCCCATCAATGACAACTTCCATCAT			
14856 P	A	A	CGCGCCGAGGATAGTGTCACCGTGGCATTT			
14856 P	G	A	CGCGCCGAGGGTAGTGTCACCGTGGCTTT			
14856 T	A	A	CGATTGCCACGGTGACACTATTGATGGAAGTTGTCATTGATGGGAGGGCAGAGAAGGGG			
14856 T	G	A	CGATTGCCACGGTGACACTACTGATGGAAGTTGTCATTGATGGGAGGGCAGAGAAGGGG			
14856 IS	[AG]		ctgtgtcccctgcccctctctgccctcccatcaatgacaacttccatca[AG]tagtgtcaccgtggcaatcgagaaaaggaaaaggaaaaggcagggtgactgggacacaga	ctg3461	17	
14865 I		S	ACCCTGCTTTTTCTTCTTAAGCCATCGTGCAGGTCT			
14865 P	T	S	CGCGCCGAGGATTGCTGTCTTCTGCTCAC			
14865 P	C	S	CGCGCCGAGGGTTGCTGTCTTCTGCTCAC			
14865 T	T	S	AGAAGTGAGCAGAAGACAGCAATGACCTGCACGATGGCTTAAGAAGAAAAAGCAGGGTGA			
14865 T	C	S	AGAAGTGAGCAGAAGACAGCAACGACCTGCACGATGGCTTAAGAAGAAAAAGCAGGGTGA			
14865 IS	[TC]		gaagaaaacagctcaaagcaggcaagtcagaagtgagcagaagacagcaa[TC]gacctgcacgatggcttaagaagaaaaagcagggtgactgggacacaga	ctg16031	17	
14875 I		S	CCCAACAGGGCTATGTGTGGGAGGATATTTATTTTGCTTCTTTTCT			
14875 P	T	S	CGCGCCGAGGACTTTCCTTGTCTTCCCTTCT			
14875 P	C	S	CGCGCCGAGGGCTTTCCTTGTCTTCCCTTC			
14875 T	T	S	AAAGAGAAGGGAAGACAAGGAAAGTGAAAAGAAGCAAAATAAATATCCTCCCACACATAGCCCTGTTGGGTT			
14875 T	C	S	AAAGAGAAGGGAAGACAAGGAAAGCGAAAAGAAGCAAAATAAATATCCTCCCACACATAGCCCTGTTGGGTT			
14875 IS	[TC]		aggaaggagggagagaagagagggagaaagagaggaagacaaggaaag[TC]gaaaagaagcaaaataaatatcctcccacacatagccctgttgggtgtt	MULTIPLE	MULTIPLE	
14883 I		S	GTGAGCTAAGGAATGTGCCCAGGGCCACC			
14883 P	T	S	CGCGCCGAGGAGTTTATAAGAAGTAGCCTCAAGC			
14883 P	A	S	CGCGCCGAGGTGTTTATAAGAAGTAGCCTCAAGC			
14883 T	T	S	CAAGGCTTGAGGCTACTTCTTATAAACTGTGGCCCTGGGCACATTCCTTAGCTCACCT			
14883 T	A	S	CAAGGCTTGAGGCTACTTCTTATAAACAGTGGCCCTGGGCACATTCCTTAGCTCACCT			
14883 IS	[TA]		cctgtcagggcagtaaccatgagcaaggcttgaggctacttcttataaaac[TA]gtggcccttgggcacattccttagctcacctgagcctcagtttcttgatga	ctg19247	7	
14886 I		A	GTGGCCTGCAGGCTGCAGGCTGT			
14886 P	INS	A	CGCGCCGAGGGACAAGCTTGCTCTAAGCA			
14886 P	DEL	A	CGCGCCGAGGGCAAGCTTGCTCTAAGCA			
14886 T	INS	A	GTCACTGCTTAGAGCAAGCTTGTCCAGCCTGCAGCCTGCAGGCCACAT			
14886 T	DEL	A	GTCACTGCTTAGAGCAAGCTTGCCAGCCTGCAGCCTGCAGGCCACAT			
14886 IS	[A-]		cacgttcaaagccatcctaggctgcatgtggcctgcaggctgcaggctgg[A-]caagcttgctctaagcagtgaccatgacttggtctcagttcactcaggt	ctg15438	8	
14976 I		S	AGAGCAAGAAAGACCCAAACCCACTTTTATACCAAACCCACA			
14976 P	A	S	CGCGCCGAGGTCTTGTGATAACAAACYCACTCCT			
14976 P	G	S	CGCGCCGAGGCCTTGTGATAACAAACYCACTCC			
14976 T	A	S	GAACAGGAGTGRGTTTGTTATCACAAGAGTGGGTTTGGTATAAAAGTGGGTTTGGGTCTTTCTTGCTCTCT			
14976 T	G	S	GAACAGGAGTGRGTTTGTTATCACAAGGGTGGGTTTGGTATAAAAGTGGGTTTGGGTCTTTCTTGCTCTCT			
14976 IS	[AG]		ATGCAGCAGTATTGAGAGGTAGGACCTTTAAGACATGATTAGGTCATGAGGGCTCTGTCATTAGAACAGGAGTGRGTTTGTTATCACAAG[AG]GTGGGTTTG GTATAAAAGTGGGTTTGGGTCTTTCTTGCTCTCTTGCCCTATCTTTGTCCTTCCACCATGACAGGACACAGTAAGAAGGTCCTCACCAGATACCGGTCCTTC TATCT	ctg15144	12	
14983 I		A	GCCCAGGCCTCCTGCACCTAGGTCAT			
14983 P	A	A	CGCGCCGAGGATGTTCCTCCCAGTTACAGT			
14983 P	G	A	CGCGCCGAGGGTGTTCCTCCCAGTTACAG			
14983 T	A	A	TTAGACTGTAACTGGGAGGAACATTGACCTAGGTGCAGGAGGCCTGGGCTC			
14983 T	G	A	TTAGACTGTAACTGGGAGGAACACTGACCTAGGTGCAGGAGGCCTGGGCTC			
14983 IS	[AG]		GAGGATGAGTGATTTGCCCTGACTATAGAGTGGCAGGGCCAAGGCAGAGCCCAGGCCTCCTGCACCTAGGTCA[AG]TGTTCCTCCCAGTTACAGTCTAAAC TGGAATGCAGGCAAAGCCCCTGTGGAAGGGGAAGGTGAAGGCTCAATCAAAGGATCCCCAGAGACTTTYCAGATATCTGAAGAAGTCCTGATGTCACTGCC CC	ctg15842	19	
14417 I		S	TGCCTGCATTTCTTTTACCTTTTCTTTATTTTCCCGTCAGA			
14417 P	A	S	CGCGCCGAGGTAAATATTTGTTAGGCAAATAAGAGCCY			
14417 P	G	S	CGCGCCGAGGCAAATATTTGTTAGGCAAATAAGAGCY			
14417 T	A	S	CAAAGGCTCTTATTTGCCTAACAAATATTTACTGACGGGAAAATAAAGAAAAGGTAAAAGAAATGCAGGCAAG			
14417 T	G	S	CAAAGGCTCTTATTTGCCTAACAAATATTTGCTGACGGGAAAATAAAGAAAAGGTAAAAGAAATGCAGGCAAG			
14417 IS	[AG]		AATCAATTTAGAGGAGCAAAGGGAGAACAACCAACAGATATAGTGAATTCAACCACCTAGCCTCCATTTTCACCAGGATCCATCTCATTACAAAGGCTCTTAT TTGCCTAACAAATATTT[AG]CTGACGGGAAAATAAAGAAAAGGTAAAAGAAATGCAGGCAAGTAGGAAAAACGTAGAACAACCCTATGCCAAGCACTGAACCA	ctg19262	19	
14975 I		S	AGACCCAAACCCACTTTTATACCAAACCCACYCTTGTGATAACAAACA			
14975 P	A	S	CGCGCCGAGGTCACTCCTGTTCTAATGACAGA			
14975 P	G	S	CGCGCCGAGGCCACTCCTGTTCTAATGACAG			
14975 T	A	S	GGGCTCTGTCATTAGAACAGGAGTGAGTTTGTTATCACAAGRGTGGGTTTGGTATAAAAGTGGGTTTGGGTCTTT			
14975 T	G	S	GGGCTCTGTCATTAGAACAGGAGTGGGTTTGTTATCACAAGRGTGGGTTTGGTATAAAAGTGGGTTTGGGTCTTT			
14975 IS	[AG]		ATGCAGCAGTATTGAGAGGTAGGACCTTTAAGACATGATTAGGTCATGAGGGCTCTGTCATTAGAACAGGAGTG[AG]GTTTGTTATCACAAGRGTGGGTTTG GTATAAAAGTGGGTTTGGGTCTTTCTTGCTCTCTTGCCCTATCTTTGTCCTTCCACCATGACAGGACACAGTAAGAAGGTCCTCACCAGATACCGGTCCTTC TATCT			
14982 I		A	GAAGGTGAAGGCTCAATCAAAGGATCCCCAGAGACTTTA			
14982 P	C	A	CGCGCCGAGGCCAGATATCTGAAGAAGTCCTGA			
14982 P	T	A	CGCGCCGAGGTCAGATATCTGAAGAAGTCCTGAT			
14982 T	C	A	TGACATCAGGACTTCTTCAGATATCTGGAAAGTCTCTGGGGATCCTTTGATTGAGCCTTCACCTTCCC			
14982 T	T	A	TGACATCAGGACTTCTTCAGATATCTGAAAAGTCTCTGGGGATCCTTTGATTGAGCCTTCACCTTCCC			
14982 IS	[CT]		AGGTCARTGTTCCTCCCAGTTACAGTCTAAACTGGAATGCAGGCAAAGCCCCTGTGGAAGGGGAAGGTGAAGGCTCAATCAAAGGATCCCCAGAGACTTT[CT]CAGATATCTGAAGAAGTCCTGATGTCACTGCCCCGGTCCTTCCCCAGGTAGAGCAACACTCCTCGCCGCAACCCAACTGGCTCCCCTTACCTTCTACAC ACAC	ctg16318	19	
14988 I		S	GGCTCCTTTACCCCGATTTCATTAGGATTCTCAGGCAA			
14988 P	A	S	CGCGCCGAGGTATGTTTCCACCTCTTCAGC			
14988 P	G	S	CGCGCCGAGGCATGTTTCCACCTCTTCAGC			
14988 T	A	S	GACAGCTGAAGAGGTGGAAACATATGCCTGAGAATCCTAATGAAATCGGGGTAAAGGAGCCTG			
14988 T	G	S	GACAGCTGAAGAGGTGGAAACATGTGCCTGAGAATCCTAATGAAATCGGGGTAAAGGAGCCTG			

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FIGURE 129E

			TGAGCACTACCTGACTAGCATATAAGAAGCTTTCAGCAAGTGCAGACTACTCTTACCCACTTCCCCCAAGCACAGTTGGGGTGGGGGACAGCTGAAGAGGT			
			GGAAACAT[AG]TGCCTGAGAATCCTAATGAAATCGGGGTAAAGGAGCCTGGAACACATCCTGTGACCCCGCCTGTCCTGTAGGAAGCCAGTCTCTGGAAAG			
14988	IS	[AG]	TAA	ctg13023	2	
4151	I		S GTAGGGAGAAGTGCGGCACAGCTAAAGGAGA			
4151	P	G	S ATGACGTGGCAGACCAGCGCCTGCACY			
4151	P	A	S CGCGCCGAGGTAGCGCCTGCACCY			
4151	T	G	S TGGGGGTGCAGGCGCTGCTCCTTTAGCTGTGCCGCACTTCTCCCTACAG			
4151	T	A	S TGGGGGTGCAGGCGCTACTCCTTTAGCTGTGCCGCACTTCTCCCTACAG			
			CCTCCTGTATTCTGTGGGTCTGACAACCAACTCCTCTCTGGCCGCCCCCACCCTGTCCCTCGTCACTTCCTCTGTCCTGTGGGGTGGGGGTGCAGGCGCT[			
			GA]CTCCTTTAGCTGTGCCGCACTTCTCCCTACAGGCCAGGAGAAACAGAACACCGTGTGCACCTGCCATGCAGGTTTCTTTCTAAGAGAAAACGAGTGTGT			
4151	IS	[GA]	C	ctg22fin4	22	
4168	I		A CACACACAACACATACATACACACCCACACACAACACTTACATACT			
4168	P	G	A ATGACGTGGCAGACGCACCACACTCGGCY			
4168	P	A	A CGCGCCGAGGACACCACACTCGGCY			
4168	T	G	A GCATGCCGAGTGTGGTGCGTATGTAAGTGTTGTGTGTGGTGTGTATGTATGTGTTGTGTGTGGT			
4168	T	A	A GCATGCCGAGTGTGGTGTGTATGTAAGTGTTGTGTGTGGTGTGTATGTATGTGTTGTGTGTGGT			
			TCAATTATAGTAGTCATATACACACACAACACATACATACACAAGACACAACACCCACACACAACACATACATACACCCACACACAACACTTACATAC[GA]C			
4168	IS	[GA]	ACCACACTCGGCATGCATTGCAGATCACAAATGCACACCACACACACACTGCATACATATACCATAGAGAACACACAACACCTACACATACCCCCATAC	ctg53	14	
4191	I		A ATATTATACTTAGGTCTTTTATGAATTTAAATATCTTTAAACCTTGATTTTTTTTTTCTTA			
4191	P	T	A CGCGCCGAGGTTGTGCTCTCTAGTTTCCT			
4191	P	C	A ATGACGTGGCAGACCTGTGCTCTCTAGTTTCCT			
4191	T	T	A GGAAAGGAAACTAGAGAGCACAAAAGAAAAAAAAAATCAAGGTTTAAAGATATTTAAATTCATAAAAGACCTAAGTATAATATGA			
4191	T	C	A GGAAAGGAAACTAGAGAGCACAGAAGAAAAAAAAAATCAAGGTTTAAAGATATTTAAATTCATAAAAGACCTAAGTATAATATGA			
			TTACTTATATTAGTTACATCTTTATTTTACTAATTTTATCATATTATACTTAGGTCTTTTATGAATTTAAATATCTTTAAACCTTGATTTTTTTTTTCTT[TC]TGTGC			
4191	IS	[TC]	TCTCTAGTTTCCTTTCCAATTTTTTCCTCCTACAAGTAAAAGAGTTTCCTTTTAAAACATTTTTAACCCCACAATTCTTTTTTAAAGGCTCGTTT	ctg22fin11	22	
4197	I		A CCAGCCCAGGTAAGCTTTCATTGAGATCTTCCAAAAGT			
4197	P	G	A ATGACGTGGCAGACGAAGGGTCTTTTGAAAAAAGGY			
4197	P	A	A CGCGCCGAGGAAAGGGTCTTTTGAAAAAAGGY			
4197	T	G	A TGCACCTTTTTTCAAAAGACCCTTCCTTTTGGAAGATCTCAATGAAAGCTTACCTGGGCTGGCT			
4197	T	A	A TGCACCTTTTTTCAAAAGACCCTTCTTTTGGAAGATCTCAATGAAAGCTTACCTGGGCTGGCT			
			CAGGACCTGGTATCGGCCCACAGACCAAGTCCTCCACAGAGGGCGAGCCAGGGTGGAGAAGAGCCAGCCCAGGTAAGCTTTCATTGAGATCTTCCAAAAG[			
			GA]AAGGGTCTTTTGAAAAAAGGTGCAGGGATAAGATAAGAGCACAAATTGGCCTGAGGATCAGAGTGCTCTGCTTTGACATCACCACTGGACCTGGCTGAT			
4197	IS	[GA]	C	ctg16105	5	
4198	I		S CGGGTGTAGAAACTCACTTGAGCGAGAACCCA			
4198	P	A	S CGCGCCGAGGTGTGTCCAAGGCAGAT			
4198	P	G	S ATGACGTGGCAGACCGTGTCCAAGGCAGA			
4198	T	A	S AAACATCTGCCTTGGACACAGGGTTCTCGCTCAAGTGAGTTTCTACACCCGGT			
4198	T	G	S AAACATCTGCCTTGGACACGGGGTTCTCGCTCAAGTGAGTTTCTACACCCGGT			
			CCCAGACTCCCTGCATCCCCAAGGAAGGGGCATCTCCAACATCATCATCCAACGAAGACTCAGCTGCAAATGGTTCTGCTGAAACATCTGCCTTGGACAC[A			
4198	IS	[AG]	G]GGGTTCTCGCTCAAGTGAGTTTCTACACCCGGTGTTTCTCTTTACCTTTCTCATCTTTTTCTTTCTCATCTTTATTTTTAAAAATAATCCTATATATAAT	MULTIPLE	MULTIPLE	
4254	I		A GCAGCTTTTTTGCTGTTTAACCTCGTAAAGATCCTAAATGATTCTCAGAAGT			
4254	P	G	A ATGACGTGGCAGACGACAATATAAAGAGATACAAAGTTAAATTC			
4254	P	A	A CGCGCCGAGGAACAATATAAAGAGATACAAAGTTAAATTC			
4254	T	G	A CAGTGAATTTAACTTTGTATCTCTTTATATTGTCCTTCTGAGAATCATTTAGGATCTTTACGAGGTTAAACAGCAAAAAAGCTGCCT			
4254	T	A	A CAGTGAATTTAACTTTGTATCTCTTTATATTGTTCTTCTGAGAATCATTTAGGATCTTTACGAGGTTAAACAGCAAAAAAGCTGCCT			
			TGAAGGGAAGGTAGCATATAGAAGGCTCAGCTTACCACATTAAATTTAGGCAGCTTTTTTGCTGTTTAACCTCGTAAAGATCCTAAATGATTCTCAGAAG[GA]			
4254	IS	[GA]	ACAATATAAAGAGATACAAAGTTAAATTCACTGGGTACATACACACCCAATTCAGACCAAGCCAATATCACAAGCTTACCTTCTGCAGAATCTCTCATAT	ctg5305	11	
4271	I		S ACCGTGTAACTAATCCCGTGGATGCCTCCTT			
4271	P	G	S CGCGCCGAGGCGTTATTTTTGTCCAAACGAAY			
4271	P	C	S ATGACGTGGCAGACGGTTATTTTTGTCCAAACGAAY			
4271	T	G	S CTGCTTCGTTTGGACAAAAATAACGAGGAGGCATCCACGGGATTAGTTACACGGTAT			
4271	T	C	S CTGCTTCGTTTGGACAAAAATAACCAGGAGGCATCCACGGGATTAGTTACACGGTAT			
			GAAGAAAACAAAGCAGTCCATATTTAACATTTATTTTACTTTGCTGAGCAAGAATCATAGACAGCTACTACCACGGCTGCTTCGTTTGGACAAAAATAAC[GC]A			
4271	IS	[GC]	GGAGGCATCCACGGGATTAGTTACACGGTATCAACTTACCACCACAGCAGAATCAACAGTGACTCGCTAATTAACAGAACCGTTTGCTAGAAAGCACTA	ctg2846	11	
4317	I		A CCAATTTCAGTCTATCAGAAGGCCGGGCGTTTGT			
4317	P	G	A ATGACGTGGCAGACGCAGCTTGGCAGCY			
4317	P	C	A CGCGCCGAGGCCAGCTTGGCAGCTY			
4317	T	G	A GCTGAGCTGCCAAGCTGCCAAACGCCCGGCCTTCTGATAGACTGAAATTGGGG			
4317	T	C	A GCTGAGCTGCCAAGCTGGCAAACGCCCGGCCTTCTGATAGACTGAAATTGGGG			
			GGGCGCGGCCTAGCAACCACGAGGGGCGAGGCTCTGATGGGAATGGTCCACTGGAAATGGGACCACCCCAATTTCAGTCTATCAGAAGGCCGGGCGTTT			
			G[GC]CAGCTTGGCAGCTCAGCCAATCACAAGCTGCTTGTCGGTCCCCGCCCCGCCTTTCTCCTTAGGAAAACTGCAGGATGGACTCTTGCACATCACTACC			
4317	IS	[GC]	TGC	ctg2846	11	
4323	I		S CCTGACACAGGTACACCCTCCACCACAGT			
4323	P	C	S ATGACGTGGCAGACGAGCGCACTGGTTC			
4323	P	T	S CGCGCCGAGGAAGCGCACTGGTTC			
4323	T	C	S CATGGAACCAGTGCGCTCCTGTGGTGGAGGGTGTACCTGTGTCAGGGC			
4323	T	T	S CATGGAACCAGTGCGCTTCTGTGGTGGAGGGTGTACCTGTGTCAGGGC			
			AAACCCACAGCATGTTGACCACCAGGAGGAGACCCCATGTGACTCCAGGACCCTGGTTGATAACAACGTATCGAGATTCCTCACATGGAACCAGTGCGCT[C			
4323	IS	[CT]	T]CTGTGGTGGAGGGTGTACCTGTGTCAGGGCAGGGGGTACGTGGACATTTTCTGCAGTTTTTGATCAATTTTGCAATGAACTAAATCTGTGGTATAAAAAT	ctg18466	16	
4335	I		A GGAACCAGATCCTGGACCCCTGGGTGTAA			
4335	P	C	A ATGACGTGGCAGACCATCCTGTTCCGCC			
4335	P	T	A CGCGCCGAGGTATCCTGTTCCGCCG			
4335	T	C	A GGCGCGGCGGAACAGGATGTACACCCAGGGGTCCAGGATCTGGTTCCAG			
4335	T	T	A GGCGCGGCGGAACAGGATATACACCCAGGGGTCCAGGATCTGGTTCCAG			
			CCATGAGCCCCGCCGGGCAGCTGTCCCGCACCACGGAGAAGGAGCTGCTCATCTACTTGCGCGTGGCCACCTGGAACCAGATCCTGGACCCCTGGGTGT			
			A[CT]ATCCTGTTCCGCCGCGGCGTGCTCCGGCGTCTCCAGCCTCGCCTCAGCACCCGGCCCAGGTCGCTGTCCCTCCAGCCCCAGCTCACGCAGCGCTC			
4335	IS	[CT]	CGGGC	ctg12387	2	TBXA2R
4365	I		S CGGGGAGAGTGCTGCTGACAGCACAA			
4365	P	A	S CGCGCCGAGGTGGCGACAGTGCTGY			
4365	P	G	S ATGACGTGGCAGACCGGCGACAGTGCTY			
4365	T	A	S TCCCCAGCACTGTCGCCATGTGCTGTCAGCAGCACTCTCCCCGAC			
4365	T	G	S TCCCCAGCACTGTCGCCGTGTGCTGTCAGCAGCACTCTCCCCGAC			
			TGCAGGCTGCAGGGTTGGTCGGAGGGCGCTCGATGTCTTGCAAACTAAGAAAGCACACAACCTTGACCTGTGGCTTCTGCTGTTCCCCAGCACTGTCGCC[			
			AG]TGTGCTGTCAGCAGCACTCTCCCCGACTGGCACATCCCAGTGGAAGTTGTGCCGGACAGCACCAGTGATCTGTACAACTTCCAGGTGTCACCCATGCC			
4365	IS	[AG]	CT	ctg16820	16	
4446	I		A GTGAAGAAACCGTATCCATAAAGACCCGATTCCACCAAC			
4446	P	A	A CGCGCCGAGGATGTGCTTTGAGAAGGATAG			
4446	P	T	A ATGACGTGGCAGACTTGTGCTTTGAGAAGGATAG			
4446	T	A	A AGGCCTATCCTTCTCAAAGCACATTTGGTGGAATCGGGTCTTTATGGATACGGTTTCTTCACCG			
4446	T	T	A AGGCCTATCCTTCTCAAAGCACAATTGGTGGAATCGGGTCTTTATGGATACGGTTTCTTCACCG			

FIGURE 129E

				ACCAGAGAACCAGGCTACAAGAGAAAAAGCAGAGGCCAAGAGTTTGAGGGGAGAAATAGTCGGTGAAGAAACCGTATCCATAAAGACCCGATTCCACCAA[A			
4446 IS	[AT]			T]TGTGCTTTGAGAAGGATAGGCCTTCATTAACAAAATGTATGTCTGGTTCCCCAGTAGAGCTCTACTGCCTCAACCAAGGGGATTTTTATGTCTGGGGCAG	ctg15907	6	CYP19
4486 I		S		CCCCCTCAAGTACCTCTGTGTGACCTCACAAGT			
4486 P	C	S		ATGACGTGGCAGACGCCTCCCAGGGCY			
4486 P	T	S		CGCGCCGAGGACCTCCCAGGGCCY			
4486 T	C	S		CTGAGGCCCTGGGAGGCCTTGTGAGGTCACACAGAGGTACTTGAGGGGGAC			
4486 T	T	S		CTGAGGCCCTGGGAGGTCTTGTGAGGTCACACAGAGGTACTTGAGGGGGAC			
				CAGAGGTTCTGAGGGACCCAGGCTCTTCCTCTGGGTAAAGGTCTGTAAGAAGGGGCTGGGGTAGCTCAGAGTAGCAGCTCACATCTGAGGCCCTGGGAG			
4486 IS	[CT]			G[CT]CTTGTGAGGTCACACAGAGGTACTTGAGGGGGACTGGAGGCCGTCTCTGGTCCCCAGGGCAAGGGAACAGCAGAACTTAGGGTCAGGGTCTCAGG GAACC	ctg22fin3	22	LIF
4515 I		A		AGAACTACCAAGAGCAAACAACTTGTGTATCAGTCTGGTCAATTATAAGAAAA			
4515 P	C	A		ATGACGTGGCAGACCGTGGCTATTTCTTCCCY			
4515 P	T	A		CGCGCCGAGGTGTGGCTATTTCTTCCCTY			
4515 T	C	A		TTGCAGGGAAGAAATAGCCACGTTTCTTATAATTGACCAGACTGATACACAAGTTGTTTGCTCTTGGTAGTTCTCT			
4515 T	T	A		TTGCAGGGAAGAAATAGCCACATTTCTTATAATTGACCAGACTGATACACAAGTTGTTTGCTCTTGGTAGTTCTCT			
				ACAGCACATACACATAGTGTTTTCTCAGTTTACCAAGAGAACTACCAAGAGCAAACAACTTGTGTATCAGTCTGGTCAATTATAAGAAA[CT]GTGGCTATTTCT			
4515 IS	[CT]			TCCCTGCAATTTAGTAACTTGACATTTTTCTCTTTCTCTGTCTCTCTTTTTGTAATCACAGCAGAATCTAAGAAGAAGAAA	MULTIPLE	3	
4540 I		A		TGAAGGGTCCGTGCTCTCCTCTTCTGGTCC			
4540 P	G	A		ATGACGTGGCAGACGTGTTCCCAGAGCCCY			
4540 P	T	A		CGCGCCGAGGTTGTTCCCAGAGCCCY			
4540 T	G	A		GAAAGGGCTCTGGGAACACGACCAGAAGAGGAGAGCACGGACCCTTCAGG			
4540 T	T	A		GAAAGGGCTCTGGGAACAAGACCAGAAGAGGAGAGCACGGACCCTTCAGG			
				GGGTGAGCCAACTGGACACTCAGACAGACACACAGACAGGTGGAGGCCCTGCTCTGCTCTACTCCTACTCCTGAAGGGTCCGTGCTCTCCTCTTCTGGTC[			
4540 IS	[GT]			GT]TGTTCCCAGAGCCCTTTCCCCGCCTGCCCCTTCGTTCTCCATCCACTTCACCACTGCCTTCCTCCTTCTGCTCCCCCTTGTCCAGAATCTCTCTCTCCTA	ctg14932	16	
4548 I		A		CTCTGCCACTTGCTCTCTTTCTGGCTGGTT			
4548 P	G	A		ATGACGTGGCAGACGTGGGAAGGATGGCGY			
4548 P	A	A		CGCGCCGAGGATGGGAAGGATGGCGY			
4548 T	G	A		AAGACGCCATCCTTCCCACACCAGCCAGAAAGAGAGCAAGTGGCAGAGCT			
4548 T	A	A		AAGACGCCATCCTTCCCATACCAGCCAGAAAGAGAGCAAGTGGCAGAGCT			
				AAGTTCTGCCTTCATGATTTCCAAAGCTTCAGTATTCCAAATCTCAGGTGAATAGGGTGGTATCCACTAAGCTCTGCCACTTGCTCTCTTTCTGGCTGGT[GA]			
4548 IS	[GA]			TGGGAAGGATGGCGTCTTTTTTTTTTTTTTTTTTTTTTTGAGATGGAGTCTTGCTCTGTTACCCAAGCTGGATTGTAGTGTTGTGATCTCGGCTCACTGCAAC	ctg13103	9	
4549 I		S		TCAGAGAGTGGGCTCCTGCAGCCACC			
4549 P	C	S		ATGACGTGGCAGACGCTGGACAGTGAATTCTGY			
4549 P	A	S		CGCGCCGAGGTCTGGACAGTGAATTCTGY			
4549 T	C	S		TGACCAGAATTCACTGTCCAGCGTGGCTGCAGGAGCCCACTCTCTGAAG			
4549 T	A	S		TGACCAGAATTCACTGTCCAGAGTGGCTGCAGGAGCCCACTCTCTGAAG			
				ACCTAGTTGGAAATGGGAGTGATGGGCATGACTAAAGTCTTCCTCATCCCACCAGAGGCGCACTCAACTGTGGCTAGGGTGACCAGAATTCACTGTCCAG[			
4549 IS	[CA]			CA]GTGGCTGCAGGAGCCCACTCTCTGAAGATGGTGGGATTCAGAGGTGGGAGTAGAGTTGGGTGGTCTTGTGAGCTGAGCACTCTCCCAAAAGTGTCCC CTA	ctg15665	20	
4557 I		S		CCTGCAATGAGATATTCCTTCTTTCCTCCAACGTCCAGA			
4557 P	G	S		ATGACGTGGCAGACCGAGACCCCACACA			
4557 P	A	S		CGCGCCGAGGTGAGACCCCACACAC			
4557 T	G	S		GGCAGTGTGTGGGGTCTCGCTGGACGTTGGAGGAAAGAAGGAATATCTCATTGCAGGTG			
4557 T	A	S		GGCAGTGTGTGGGGTCTCACTGGACGTTGGAGGAAAGAAGGAATATCTCATTGCAGGTG			
				CTTACATGTCCTCCTCCTTGTCTTTCCAGATGTTCAAAGGGCCTGAGAAGGATATAGAGTTTATCTACACGGCCCCCTCCTCGGCAGTGTGTGGGGTCTC[G			
4557 IS	[GA]			A]CTGGACGTTGGAGGAAAGAAGGAATATCTCATTGCAGGTGTGTATGAGTGGGGCCATCAGCCGGAGGCT	ctg13980	1	
4572 I		A		GGCGGCAGGATCTGAACTCGCTTTACCTA			
4572 P	T	A		CGCGCCGAGGTCTTGTTTGGAGCACAGY			
4572 P	C	A		ATGACGTGGCAGACCCTTGTTTGGAGCACAGY			
4572 T	T	A		GTCCCTGTGCTCCAAACAAGAAGGTAAAGCGAGTTCAGATCCTGCCGCCCA			
4572 T	C	A		GTCCCTGTGCTCCAAACAAGGAGGTAAAGCGAGTTCAGATCCTGCCGCCCA			
				ATCGAGTCTGAATCTGCACTACTCAACTTATAAACTGTCTGCAGACACCTGTTAGGGAAATTGCTGATCATGGGCGGCAGGATCTGAACTCGCTTTACCT[TC			
4572 IS	[TC]			]CTTGTTTGGAGCACAGGGACCGCCCAGCTAGAGGAGCACCAGCGCACTGCGCCCCAGCCCTGGGCGAGGGTGCGGAGGATTTGTTCTCGGTGCAATCCT G	ctg19247	7	NPY2R
4627 I		S		ACCAGGCTTCGCAAGAGCACATTGGCATTTAAAT			
4627 P	C	S		ATGACGTGGCAGACGGAAGCCAGTTACTCATCY			
4627 P	G	S		CGCGCCGAGGCGAAGCCAGTTACTCATCY			
4627 T	C	S		CCCTGATGAGTAACTGGCTTCCTTTAAATGCCAATGTGCTCTTGCGAAGCCTGGTGA			
4627 T	G	S		CCCTGATGAGTAACTGGCTTCGTTTAAATGCCAATGTGCTCTTGCGAAGCCTGGTGA			
				CAGTACACATGGTTTCCTTTTTCCTCACCTGCTCTGTCCTTCTTAGGGGAGCTGAACTCACGGCTGAGCTCGGATACCACCCTGATGAGTAACTGGCTTC[C			
4627 IS	[CG]			G]TTTAAATGCCAATGTGCTCTTGCGAAGCCTGGTGAAAGTGGTGGGGCTGTATGGCTTCATGCTCAGCATATCGCCTCGACTCACCCTCCTTTCTCTGCTG	ctg14946	16	
4896 I		S		ACTCGAACAATCACTTGCTATGCTCTCTTAGCCTCAGTA			
4896 P	A	S		CGCGCCGAGGTTGCCCATCTGTGAAATGY			
4896 P	G	S		ATGACGTGGCAGACCTGCCCATCTGTGAAATY			
4896 T	A	S		TCCCCATTTCACAGATGGGCAAACTGAGGCTAAGAGAGCATAGCAAGTGATTGTTCGAGTCA			
4896 T	G	S		TCCCCATTTCACAGATGGGCAGACTGAGGCTAAGAGAGCATAGCAAGTGATTGTTCGAGTCA			
				CTCCTTTGGACTTGGGACTACTCTTGGGACATGGAATTATCCCCATTTCACAGATGGGCA[AG]ACTGAGGCTAAGAGAGCATAGCAAGTGATTGTTCGAGTC			
4896 IS	[AG]			AGGCCTACGGTGTCCCAGCCC	ctg14243	19	
4903 I		S		GCCAGAACCTGGGTATCAGTCAGCTGAGTAGTAGAA			
4903 P	G	S		ATGACGTGGCAGACCGAGGCCTGGGTGY			
4903 P	A	S		CGCGCCGAGGTGAGGCCTGGGTGY			
4903 T	G	S		CTGCCACCCAGGCCTCGTCTACTACTCAGCTGACTGATACCCAGGTTCTGGCAG			
4903 T	A	S		CTGCCACCCAGGCCTCATCTACTACTCAGCTGACTGATACCCAGGTTCTGGCAG			
				AAAGGCCACAGAGGTCTCAAAGACCCCAGAGGCTCGGGAGGCACCTGCCACCCAGGCCTC[GA]TCTACTACTCAGCTGACTGATACCCAGGTTCTGGCAG			
4903 IS	[GA]			CTGAAAACAAGAGTCTAGCAGCT	ctg15064	7	JCL-1
4978 I		S		GGCTTTCATCTGGAAACCCCCAGTGAAGAATGTC			
4978 P	A	S		CGCGCCGAGGTGTTTTGAATATTATGCTATATAGGATAG			
4978 P	T	S		ATGACGTGGCAGACAGTTTTGAATATTATGCTATATAGGATAG			
4978 T	A	S		TATACTATCCTATATAGCATAATATTCAAAACAACATTCTTCACTGGGGGTTTCCAGATGAAAGCCCA			
4978 T	T	S		TATACTATCCTATATAGCATAATATTCAAAACTACATTCTTCACTGGGGGTTTCCAGATGAAAGCCCA			
				TTCACTAAGCAACTCCTTCAACTCGAAATATACTATCCTATATAGCATAATATTCAAAAC[AT]ACATTCTTCACTGGGGGTTTCCAGATGAAAGCCCACATTTT			
4978 IS	[AT]			GTTAACATGACTCACTGAG	ctg14946	16	
5011 I		S		GCCATTCCCCTCTGAGAAATGTAATATTCAAGAGGCTCTTTATCATTAGTC			
5011 P	A	S		CGCGCCGAGGTTTTGCATGGCACAAAAAAY			
5011 P	T	S		ATGACGTGGCAGACATTTGCATGGCACAAAAAAY			
5011 T	A	S		AGGTTTTTTTTGTGCCATGCAAAAACTAATGATAAAGAGCCTCTTGAATATTACATTTCTCAGAGGGGAATGGCTC			
5011 T	T	S		AGGTTTTTTTTGTGCCATGCAAATACTAATGATAAAGAGCCTCTTGAATATTACATTTCTCAGAGGGGAATGGCTC			
				TTTGAAATGCCTCTTTCTTCTCTTGCCTGCCATGACCAAGGTTTTTTTGTGCCATGCAAA[AT]ACTAATGATAAAGAGCCTCTTGAATATTACATTTCTCAGAG			
5011 IS	[AT]			GGGAATGGCTCTAAATCAC	ctg15128	17	
5086 I		A		ACGGCTCAGTGACTTTTGGTTCCCACGACT			
5086 P	C	A		ATGACGTGGCAGACCTTGACAGAGACAGGGAY			
5086 P	A	A		CGCGCCGAGGATTGACAGAGACAGGGACY			
5086 T	C	A		CGAGGTCCCTGTCTCTGTCAAGGTCGTGGGAACCAAAAGTCACTGAGCCGTCC			
5086 T	A	A		CGAGGTCCCTGTCTCTGTCAATGTCGTGGGAACCAAAAGTCACTGAGCCGTCC			

FIGURE 129E

				TCCAGGCCCTGTGCTCAGAGGTGGGGGGAGGACGGCTCAGTGACTTTTGGTTCCCACGAC[CA]TTGACAGAGACAGGGACCTCGACGCATCCTCCATACC			
5086 IS	[CA]			CGCTGCGGGGAAATGGACCCCAC	ctg11	15	
5101 I			A	GGGCCTGCCTGTGGTCAAGAGTTTCCTGT			
5101 P	A		A	CGCGCCGAGGAGTCTGAATTTGAGGGTGY			
5101 P	G		A	ATGACGTGGCAGACGGTCTGAATTTGAGGGTGY			
5101 T	A		A	GGACCACCCTCAAATTCAGACTCAGGAAACTCTTGACCACAGGCAGGCCCAG			
5101 T	G		A	GGACCACCCTCAAATTCAGACCCAGGAAACTCTTGACCACAGGCAGGCCCAG			
				AGGTAAGAGTCTTGACTTCCTAGGTGGAACCTGGGCCTGCCTGTGGTCAAGAGTTTCCTG[AG]GTCTGAATTTGAGGGTGGTCCATGCTGAGGGCTCTGG			
5101 IS	[AG]			GGTTGTGATGAGTAGGGAATGGA	ctg22fin4	22	
5109 I			A	AGTCATTGAAGTTGTGAAAGTCTATTTTTTTTCCTGTAAATCTATTTTTTACAGAATT			
5109 P	A		A	CGCGCCGAGGATAAGAAACATCAATGACCTGA			
5109 P	G		A	ATGACGTGGCAGACGTAAGAAACATCAATGACCTG			
5109 T	A		A	CAGATCAGGTCATTGATGTTTCTTATATTCTGTAAAAAATAGATTTACAGGAAAAAAAATAGACTTTCACAACTTCAATGACTTT			
5109 T	G		A	CAGATCAGGTCATTGATGTTTCTTACATTCTGTAAAAAATAGATTTACAGGAAAAAAAATAGACTTTCACAACTTCAATGACTTT			
				TAAAGTCATTGAAGTTGTGAAAGTCTATTTTTTTTCCTGTAAATCTATTTTTTACAGAAT[AG]TAAGAAACATCAATGACCTGATCTGTCCTTCCTCCTCCTTCC			
5109 IS	[AG]			CGCTTCCCCCAAAATCAC	ctg25099	7	MGC5139
5117 I			A	ACAGGATGGGTGGGGAAGTCCCTACTTGAAAT			
5117 P	G		A	ATGACGTGGCAGACGGCCTCTCCCTACAC			
5117 P	A		A	CGCGCCGAGGAGCCTCTCCCTACAC			
5117 T	G		A	GTGGGTGTAGGGAGAGGCCTTTCAAGTAGGGACTTCCCCACCCATCCTGTCT			
5117 T	A		A	GTGGGTGTAGGGAGAGGCTTTTCAAGTAGGGACTTCCCCACCCATCCTGTCT			
				GTACCCTTGTGAGATGGTTTAGGGGAGAGACAGGATGGGTGGGGAAGTCCCTACTTGAAA[GA]GCCTCTCCCTACACCCACCCCCCGCTTCTCTTTTTGAC			
5117 IS	[GA]			AAAACTCAAGGCTTTCTTGGCC	ctg25099	7	
5122 I			S	GCTTAGGGCAGTCCCCTGGGAGCTT			
5122 P	C		S	ATGACGTGGCAGACGAGTAGGGGGATCCC			
5122 P	T		S	CGCGCCGAGGAAGTAGGGGGATCCC			
5122 T	C		S	GTCCGGGATCCCCCTACTCAGCTCCCAGGGGACTGCCCTAAGCTA			
5122 T	T		S	GTCCGGGATCCCCCTACTTAGCTCCCAGGGGACTGCCCTAAGCTA			
				GAGAGAGGAGGCTGGAGTACTCCTATCTCAGATCTGGAAGGAGTCCGGGATCCCCCTACT[CT]AGCTCCCAGGGGACTGCCCTAAGCTAGAAGAAGTGGA			
5122 IS	[CT]			TATTGGGATCTCTGACTCAAGAG	ctg17465	16	
5126 I			A	GCCAACATGGTGAAACTGTGTCTCTACTAAAAATACAAAAATTAGGCAGT			
5126 P	G		A	ATGACGTGGCAGACGGATGGTGGCATGTAC			
5126 P	A		A	CGCGCCGAGGAGATGGTGGCATGTACC			
5126 T	G		A	TACAGGTACATGCCACCATCCCTGCCTAATTTTTGTATTTTTAGTAGAGACACAGTTTCACCATGTTGGCCA			
5126 T	A		A	TACAGGTACATGCCACCATCTCTGCCTAATTTTTGTATTTTTAGTAGAGACACAGTTTCACCATGTTGGCCA			
				AGACCAGCCTGGCCAACATGGTGAAACTGTGTCTCTACTAAAAATACAAAAATTAGGCAG[GA]GATGGTGGCATGTACCTGTAGTCCCAGCTACCTGGGAG			
5126 IS	[GA]			GCTGAGGTGAGAGAGTTGCTTG	ctg15064	7	
5140 I			S	GACTCTATTGCCCACGGGACTGATAACTGAATTTCCATA			
5140 P	A		S	CGCGCCGAGGTGCAGGTAAAATTTAGGTTCCY			
5140 P	G		S	ATGACGTGGCAGACCGCAGGTAAAATTTAGGTTCY			
5140 T	A		S	CGTGGGAACCTAAATTTTACCTGCAATGGAAATTCAGTTATCAGTCCCGTGGGCAATAGAGTCAC			
5140 T	G		S	CGTGGGAACCTAAATTTTACCTGCGATGGAAATTCAGTTATCAGTCCCGTGGGCAATAGAGTCAC			
				TCACAGTTTTCAAATTTGCTGGGTACGGTGTACCGGCGTGGGAACCTAAATTTTACCTGC[AG]ATGGAAATTCAGTTATCAGTCCCGTGGGCAATAGAGTCA			
5140 IS	[AG]			CTGTATTTGACCTTAAAAAGT			
5214 I			A	GCTGGCTTTTGCACTGAGTAGTTGCAGTTGAATAGTTT			
5214 P	G		A	ATGACGTGGCAGACGTGACAGAGACCCTCTG			
5214 P	A		A	CGCGCCGAGGATGACAGAGACCCTCTG			
5214 T	G		A	GGGTCAGAGGGTCTCTGTCACAACTATTCAACTGCAACTACTCAGTGCAAAAGCCAGCCA			
5214 T	A		A	GGGTCAGAGGGTCTCTGTCATAACTATTCAACTGCAACTACTCAGTGCAAAAGCCAGCCA			
				TGTCTGTTTACATATTGTTTATGGCTGGCTTTTGCACTGAGTAGTTGCAGTTGAATAGTT[GA]TGACAGAGACCCTCTGACCCACAAAGGCAAAAATATTTGT			
5214 IS	[GA]			TCTCTAGTCTTTTTCAGAAA	ctg25099	7	
5216 I			S	TTTCATTTTGGTCTCACTTCAGTGCTGGTAGCT			
5216 P	C		S	ATGACGTGGCAGACGATGTTGAACTGATTTTGAAACA			
5216 P	T		S	CGCGCCGAGGAATGTTGAACTGATTTTGAAACA			
5216 T	C		S	GTGATGTTTCAAAATCAGTTCAACATCGCTACCAGCACTGAAGTGAGACCAAAATGAAACA			
5216 T	T		S	GTGATGTTTCAAAATCAGTTCAACATTGCTACCAGCACTGAAGTGAGACCAAAATGAAACA			
				TTAAAGCTTTTGGTGTTTTATTTGTCTAAAAACAGTGATGTTTCAAAATCAGTTCAACAT[CT]GCTACCAGCACTGAAGTGAGACCAAAATGAAACAAGATATA			
5216 IS	[CT]			AAAAAGCAATTTGATTAAA	ctg14932	16	
5218 I			S	AGTATCTTCTGTTGGCCTGCTCCCTGGGTAGC			
5218 P	A		S	CGCGCCGAGGTAGCTTGTGACTTCCCTAA			
5218 P	C		S	ATGACGTGGCAGACGAGCTTGTGACTTCCCT			
5218 T	A		S	AGTCTTAGGGAAGTCACAAGCTACTACCCAGGGAGCAGGCCAACAGAAGATACTCT			
5218 T	C		S	AGTCTTAGGGAAGTCACAAGCTCCTACCCAGGGAGCAGGCCAACAGAAGATACTCT			
				TAAAGGAAATTGGCAGCACTTTTCTTGGAGCAAGGCTCAGTCTTAGGGAAGTCACAAGCT[AC]CTACCCAGGGAGCAGGCCAACAGAAGATACTCTCCTCTA			
5218 IS	[AC]			TTCTAAGATTCCTCCAGTACA	ctg_na	NA	
5219 I			S	GGGCAGGACACACGATGTAGCATCTGCTTTGA			
5219 P	A		S	CGCGCCGAGGTCAATTTGAACCAATAAATTGAATC			
5219 P	G		S	ATGACGTGGCAGACCCAATTTGAACCAATAAATTGAATC			
5219 T	A		S	TTTAGATTCAATTTATTGGTTCAAATTGACAAAGCAGATGCTACATCGTGTGTCCTGCCCAG			
5219 T	G		S	TTTAGATTCAATTTATTGGTTCAAATTGGCAAAGCAGATGCTACATCGTGTGTCCTGCCCAG			
				CTCCTCTATTCTAAGATTCCTCCAGTACATACTTTAGATTCAATTTATTGGTTCAAATTG[AG]CAAAGCAGATGCTACATCGTGTGTCCTGCCCAGTATTAAGA			
5219 IS	[AG]			GTAGTCAATTTGTGGCCTC	ctg18466	16	
5252 I			S	GACCTGCACTGGGTGGCTCTATTCCCACT			
5252 P	T		S	CGCGCCGAGGATTGCCTCTTCGGTCTA			
5252 P	C		S	ATGACGTGGCAGACGTTGCCTCTTCGGTCT			
5252 T	T		S	CTATTAGACCGAAGAGGCAATGTGGGAATAGAGCCACCCAGTGCAGGTCTG			
5252 T	C		S	CTATTAGACCGAAGAGGCAACGTGGGAATAGAGCCACCCAGTGCAGGTCTG			
				CTGCTGCTGCTGTTGCAATACTGGTCTCGCACCTGGTATGCTATTAGACCGAAGAGGCAA[TC]GTGGGAATAGAGCCACCCAGTGCAGGTCTGGGTAAAGA			
5252 IS	[TC]			AGTATTATAATCTCCTCCTGGT	ctg19148	19	NCOA3
5263 I			S	ACTGTATCTACAGCAACCTGTGAAGTGGAAACTGTGATCTC			
5263 P	C		S	ATGACGTGGCAGACGCCCCAGCGCCY			
5263 P	A		S	CGCGCCGAGGTCCCCAGCGCCY			
5263 T	C		S	AGAGGGCGCTGGGGCAGATCACAGTTTCCACTTCACAGGTTGCTGTAGATACAGTTC			
5263 T	A		S	AGAGGGCGCTGGGGAAGATCACAGTTTCCACTTCACAGGTTGCTGTAGATACAGTTC			
				CCAAATGAGGTCCCGAGAGTTAGGGAATAGGGTGGAATCTTCTGGAAGAGGGCGCTGGGG[CA]AGATCACAGTTTCCACTTCACAGGTTGCTGTAGATACA			
5263 IS	[CA]			GTTCACTGCCCACAGAGATGAT	ctg18433	19	
5264 I			S	CCACCAGAAGGTTCAGGGTTCCATCTTGGAACTTCA			
5264 P	A		S	CGCGCCGAGGTGGATCACTTCTTGCTG			
5264 P	G		S	ATGACGTGGCAGACCGGATCACTTCTTGCTG			
5264 T	A		S	GGACCAGCAAGAAGTGATCCAGAAGTTCCAAGATGGAACCCTGAACCTTCTGGTGGCC			
5264 T	G		S	GGACCAGCAAGAAGTGATCCGGAAGTTCCAAGATGGAACCCTGAACCTTCTGGTGGCC			
				GTACCAGCCTCTTTCTCCTCCCTGCCCTCCGCCTGCAGAGGGACCAGCAAGAAGTGATCC[AG]GAAGTTCCAAGATGGAACCCTGAACCTTCTGGTGGCCA			
5264 IS	[AG]			CGAGTGTGGCGGAGGAGGGGCT	ctg15944	11	
5269 I			S	CCACTGGAACCCACTTCTCCACATCCACCT			
5269 P	C		S	ATGACGTGGCAGACGTCCCCGACCTGC			
5269 P	T		S	CGCGCCGAGGATCCCCGACCTGC			
5269 T	C		S	GGCGGCAGGTCGGGGACGGTGGATGTGGAGAAGTGGGTTCCAGTGGGC			
5269 T	T		S	GGCGGCAGGTCGGGGATGGTGGATGTGGAGAAGTGGGTTCCAGTGGGC			

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FIGURE 129E

				GGCCCCTTGAACCAGCCGTGACACACACCTGTGGGAATGGCGCTGGCGGCAGGTCGGGGA[CT]GGTGGATGTGGAGAAGTGGGTTCCAGTGGGCTGTGG			
5269	IS	[CT]		ATGCCTCTTGGGGTTGATGTCGCC	ctg16508	19	
5286	I		S	GTGTCTATCATCGGCTCTCAGGGCGTATCTCCA			
5286	P	G	S	ATGACGTGGCAGACCAACTTGAGCTCCATCTG			
5286	P	A	S	CGCGCCGAGGTAACTTGAGCTCCATCTGT			
5286	T	G	S	GGAGACAGATGGAGCTCAAGTTGGGAGATACGCCCTGAGAGCCGATGATAGACACAA			
5286	T	A	S	GGAGACAGATGGAGCTCAAGTTAGGAGATACGCCCTGAGAGCCGATGATAGACACAA			
				CTGAGAGTAAATACTTGGCGCCTCCAGCTGCTGGCCAAGGAGACAGATGGAGCTCAAGTT[GA]GGAGATACGCCCTGAGAGCCGATGATAGACACAAGTC			
5286	IS	[GA]		CAGATCTCGGATTTTGATACTGT			LOC65243
5382	I		S	GGGAGGTTTGTGTCTGGGCTCACACTGACA			
5382	P	G	S	ATGACGTGGCAGACCTCCCCTCACTGTGTC			
5382	P	A	S	CGCGCCGAGGTTCCCCTCACTGTGTC			
5382	T	G	S	GAGAGACACAGTGAGGGGAAGTCAGTGTGAGCCCAGACACAAACCTCCCTG			
5382	T	A	S	GAGAGACACAGTGAGGGGAAGTCAGTGTGAGCCCAGACACAAACCTCCCTG			
				AACAGCCTGAGAGCCGAGGACACGGCTGTGTATTACTGTGCGAGAGACACAGTGAGGGGA[GA]GTCAGTGTGAGCCCAGACACAAACCTCCCTGCAGGGG			
5382	IS	[GA]		TCCGCAGGACCACCAGGGGGCGA	MULTIPLE	22	
5400	I		S	GGGGAGGGGAGCCTGGGAGTGTTTCTTAA			
5400	P	G	S	ATGACGTGGCAGACCCCTCAGACCCTTGGY			
5400	P	A	S	CGCGCCGAGGTCCTCAGACCCTTGGAY			
5400	T	G	S	CTGGTCCAAGGGTCTGAGGGTAAGAAACACTCCCAGGCTCCCCTCCCCAG			
5400	T	A	S	CTGGTCCAAGGGTCTGAGGATAAGAAACACTCCCAGGCTCCCCTCCCCAG			
				ACAATACATACTATTTGTTCCCAGGCTATTTCGTTCCCCAACTGGTCCAAGGGTCTGAGG[GA]TAAGAAACACTCCCAGGCTCCCCTCCCCAGCCTAAGACA			
5400	IS	[GA]		ACTTCATCATGCCAGGCGGGC	ctg15424	2	
5407	I		S	GCCCCTTTCGGGCTGAAGGCTGTCT			
5407	P	C	S	ATGACGTGGCAGACGAATAAGCACTTCAGCTGC			
5407	P	G	S	CGCGCCGAGGCAATAAGCACTTCAGCTG			
5407	T	C	S	AAGAGCAGCTGAAGTGCTTATTCGACAGCCTTCAGCCCGAAAGGGGCAA			
5407	T	G	S	AAGAGCAGCTGAAGTGCTTATTGGACAGCCTTCAGCCCGAAAGGGGCAA			
				CGAGCAGCGGGAGCTGGAAGATAAAATCCACCTTGGTGAAGAGCAGCTGAAGTGCTTATT[CG]GACAGCCTTCAGCCCGAAAGGGGCAAATAAGAGACCA			
5407	IS	[CG]		GTCCCCGGTGGAGGAGGGGCACG	ctg22fin3	22	APXL
5436	I		A	GTAGCTGAGCTCACTACACCAGTCATAACCAT			
5436	P	C	A	ATGACGTGGCAGACCCCACATTTCAAACAAGC			
5436	P	A	A	CGCGCCGAGGACCACATTTCAAACAAGC			
5436	T	C	A	CTTGGCTTGTTTGAAATGTGGGTGGTTATGACTGGTGTAGTGAGCTCAGCTACTT			
5436	T	A	A	CTTGGCTTGTTTGAAATGTGGTTGGTTATGACTGGTGTAGTGAGCTCAGCTACTT			
				AGAAGATTGATCCCAAGACGATATTACAAGTAGCTGAGCTCACTACACCAGTCATAACCA[CA]CCACATTTCAAACAAGCCAAGTCATTTATTTTGGAAATAAA			
5436	IS	[CA]		GTTTCAAATAGGCTTAGCA	ctg53	14	
5459	I		S	CCTGCCTAGGATCTGTGCAGACCCTGTCT			
5459	P	G	S	CGCGCCGAGGCCACCCAGTTGCTGAY			
5459	P	C	S	ATGACGTGGCAGACGCACCCAGTTGCTGY			
5459	T	G	S	GCTGTCAGCAACTGGGTGGGACAGGGTCTGCACAGATCCTAGGCAGGGT			
5459	T	C	S	GCTGTCAGCAACTGGGTGCGACAGGGTCTGCACAGATCCTAGGCAGGGT			
				GGTCCGCTGGCAAGGGGGGTGGACTCTAGAAGGAACAGGAGGGCTGTCAGCAACTGGGTG[GC]GACAGGGTCTGCACAGATCCTAGGCAGGGTGAGAAT			
5459	IS	[GC]		AGGTAGTACCTCGGTTCTGGGCTG	ctg53	14	
5469	I		A	GGCTTCGAGGACCTGTCCCATGTCCAGT			
5469	P	G	A	ATGACGTGGCAGACGCTGGCTCCCCAGY			
5469	P	C	A	CGCGCCGAGGCCTGGCTCCCCAGY			
5469	T	G	A	ATGGCTGGGGAGCCAGCCTGGACATGGGACAGGTCCTCGAAGCCGG			
5469	T	C	A	ATGGCTGGGGAGCCAGGCTGGACATGGGACAGGTCCTCGAAGCCGG			
				AGCCCCGACACCGTCTCGCCCTCCCTGAGCCCCGGCTTCGAGGACCTGTCCCATGTCCAG[GC]CTGGCTCCCCAGCCATCAACGGCCGCAGCCAGACAG			
5469	IS	[GC]		ATGACGAGGAGATGACGGGCGAAT	ctg53	14	MGC2749
5478	I		A	GGGTGATTTCTCCTGACTCTTTCTCTTCCCCGTCA			
5478	P	C	A	ATGACGTGGCAGACCCAGCTGTCCCCTACY			
5478	P	T	A	CGCGCCGAGGTCAGCTGTCCCCTACY			
5478	T	C	A	GGTGGTAGGGGACAGCTGGGACGGGGAAGAGAAAGAGTCAGGAGAAATCACCCAG			
5478	T	T	A	GGTGGTAGGGGACAGCTGAGACGGGGAAGAGAAAGAGTCAGGAGAAATCACCCAG			
				GATGGGGGCTTTGGGATCAGGCAGCTGGGTGATTTCTCCTGACTCTTTCTCTTCCCCGTC[CT]CAGCTGTCCCCTACCACCACCGGTCACAGATGTGAGCC			
5478	IS	[CT]		TTGAGT[GCAGCAGCTGCGGGA			
5499	I		S	GCTAGAGAACCAGTTGGAGAAACTGGGGCAGATT			
5499	P	T	S	CGCGCCGAGGAATACCACTGTCTTCCTTCY			
5499	P	C	S	ATGACGTGGCAGACGATACCACTGTCTTCCTTCY			
5499	T	T	S	ATGGGAAGGAAGACAGTGGTATTATCTGCCCCAGTTTCTCCAACTGGTTCTCTAGCAG			
5499	T	C	S	ATGGGAAGGAAGACAGTGGTATCATCTGCCCCAGTTTCTCCAACTGGTTCTCTAGCAG			
				GGGACTGAACACAGCCCTCATCCCCATTGTTTCTGGAAATGGGAAGGAAGACAGTGGTAT[TC]ATCTGCCCCAGTTTCTCCAACTGGTTCTCTAGCAGAGG			
5499	IS	[TC]		CTTGCTAACTTGAGCCCCTAAG	ctg53	14	
5562	I		A	GGAGCTCTTTCTTTCTGCATTGTTACTCACAATCGGCTTACT			
5562	P	C	A	ATGACGTGGCAGACCCCTCAAAGAACTCATCAGY			
5562	P	A	A	CGCGCCGAGGACCTCAAAGAACTCATCAGAY			
5562	T	C	A	CATTTCTGATGAGTTCTTTGAGGGGTAAGCCGATTGTGAGTAACAATGCAGAAAGAAAGAGCTCCTA			
5562	T	A	A	CATTTCTGATGAGTTCTTTGAGGGTGAAGCCGATTGTGAGTAACAATGCAGAAAGAAAGAGCTCCTA			
				GCTCATTATGACTTAGCTAGGAGCTCTTTCTTTCTGCATTGTTACTCACAATCGGCTTAC[CA]CCTCAAAGAACTCATCAGAAATGTCAGTATCCTGATCACTT			
5562	IS	[CA]		AAATGAAGGCCTTCTGGAC	ctg13361	9	
5564	I		A	TGTGACCCCAGCCCTTGTGAGCCAAT			
5564	P	G	A	ATGACGTGGCAGACGTTGCTCAGAGTCTAGCAY			
5564	P	C	A	CGCGCCGAGGCTTGCTCAGAGTCTAGCAY			
5564	T	G	A	CAGATGCTAGACTCTGAGCAACTTGGCTCACAAGGGCTGGGGTCACAGC			
5564	T	C	A	CAGATGCTAGACTCTGAGCAAGTTGGCTCACAAGGGCTGGGGTCACAGC			
				CCTGCTCTGTGACCAGTAGCTGCCAGGCTGTCTGCTGTGACCCCAGCCCTTGTGAGCCAA[GC]TTGCTCAGAGTCTAGCATCTGCCAGCCAGCTACGTGTG			
5564	IS	[GC]		TGGCTCTGGTCTGTGAGCCAGT	ctg23	17	
5565	I		S	GCAGGAAACTGGCTCAGGGCAGACAGAAT			
5565	P	C	S	ATGACGTGGCAGACGGACAGCGCTTGACY			
5565	P	G	S	CGCGCCGAGGCGACAGCGCTTGACY			
5565	T	C	S	TGTAGTCAAGCGCTGTCCTTCTGTCTGCCCTGAGCCAGTTTCCTGCCC			
5565	T	G	S	TGTAGTCAAGCGCTGTCGTTCTGTCTGCCCTGAGCCAGTTTCCTGCCC			
				CACCAGCTGTCTGTGTGTCCAGTCCATGCCAACCTACTTGCTATGTAGTCAAGCGCTGTC[CG]TTCTGTCTGCCCTGAGCCAGTTTCCTGCCCATCTACCTC			
5565	IS	[CG]		CTGCCGACCTCTTTCCTGCAG	ctg15907	6	
5570	I		S	CATACAACAGAAGGCATTAAGTTCCCTCTACTCCCCCT			
5570	P	C	S	ATGACGTGGCAGACGCCCCCACCCAGY			
5570	P	T	S	CGCGCCGAGGACCCCCACCCAGAY			
5570	T	C	S	TAATTCTGGGTGGGGGCGGGGGAGTAGAGGGAACTTAATGCCTTCTGTTGTATGAG			
5570	T	T	S	TAATTCTGGGTGGGGGTGGGGGAGTAGAGGGAACTTAATGCCTTCTGTTGTATGAG			
				GGTCTCAGTGTTTTTCTTCTACTCTGTCCCTAAAATTAAAAAGTTAATTCTGGGTGGGGG[CT]GGGGGAGTAGAGGGAACTTAATGCCTTCTGTTGTATGAG			
5570	IS	[CT]		TTGGTAGATAATTTTTAAAAT	ctg15907	6	
5615	I		A	CCTGGTGGGCTGGACACCAGGTTGT			
5615	P	G	A	ATGACGTGGCAGACGAGAGGGACCAGACGY			
5615	P	A	A	CGCGCCGAGGAAGAGGGACCAGACGY			
5615	T	G	A	CAGCCGTCTGGTCCCTCTCCAACCTGGTGTCCAGCCCACCAGGCC			
5615	T	A	A	CAGCCGTCTGGTCCCTCTTCAACCTGGTGTCCAGCCCACCAGGCC			

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FIGURE 129E

				TGTTCCGGCACGGAGCAGGCACCAGGAAGTGCTGGGCCTGGTGGGCTGGACACCAGGTTG[GA]AGAGGGACCAGACGGCTGAGCGTGAGCCCCCGGCC			
5615 IS	[GA]			TGCAGGGACCACAGCCCCTCCTTCG	ctg15907	6	
5626 I		S		GGTCTTCAAGCTGGGCCTGGCATCTCTCT			
5626 P	C	S		ATGACGTGGCAGACGCCAGTGAAGCCAGY			
5626 P	T	S		CGCGCCGAGGACCAGTGAAGCCAGGY			
5626 T	C	S		CCTCCCTGGCTTCACTGGCGAGAGATGCCAGGCCCAGCTTGAAGACCCT			
5626 T	T	S		CCTCCCTGGCTTCACTGGTGAGAGATGCCAGGCCCAGCTTGAAGACCCT			
				CAGCTCTCCCTCTCCATTGACACCCAGCTTCTTGTGCACTTGCCTCCCTGGCTTCACTGG[CT]GAGAGATGCCAGGCCCAGCTTGAAGACCCTTGTCCTCC			
5626 IS	[CT]			CTCCTTCTGTTCCAAAAGGGGC			NOTCH4
5660 I		A		CCCAGGCTCAGTCAGGGACTTGGGAGATACTATAA			
5660 P	C	A		ATGACGTGGCAGACCTTGGGATGGGAGTAAGTY			
5660 P	T	A		CGCGCCGAGGTTTGGGATGGGAGTAAGTY			
5660 T	C	A		TTCCACTTACTCCCATCCCAAGTATAGTATCTCCCAAGTCCCTGACTGAGCCTGGGCA			
5660 T	T	A		TTCCACTTACTCCCATCCCAAATATAGTATCTCCCAAGTCCCTGACTGAGCCTGGGCA			
				CTGCCAAAGAAATGGATGCTCCTATGCCCAGGCTCAGTCAGGGACTTGGGAGATACTATA[CT]TTGGGATGGGAGTAAGTGGAATGCCAGCTGCCATGCAT			
5660 IS	[CT]			AATGCAGTGGTGTTCATGGTGG	ctg14932	16	
5717 I		S		CATTCCTCATGAGTTGCATGCTCCCTCCCCA			
5717 P	G	S		ATGACGTGGCAGACCACCCGCCCCTGY			
5717 P	A	S		CGCGCCGAGGTACCCGCCCCTGGY			
5717 T	G	S		TCTCCCAGGGGCGGGTGGGGGAGGGAGCATGCAACTCATGAGGAATGAT			
5717 T	A	S		TCTCCCAGGGGCGGGTAGGGGAGGGAGCATGCAACTCATGAGGAATGAT			
				CCTCATCCTGCCTGTGCCGGTGAGCAATAAGCCAGGCCTGCGGCTCTCCCAGGGGCGGGT[GA]GGGGAGGGAGCATGCAACTCATGAGGAATGATGGGA			
5717 IS	[GA]			GGAAAGTGAATTGAGGGAGGTAAA	ctg13715	13	
5765 I		A		AACTGGTTTTCCTGGTCAAATAAAATAAAACAGAACCCTGA			
5765 P	C	A		ATGACGTGGCAGACCAGGACACTGCTTCCTY			
5765 P	T	A		CGCGCCGAGGTAGGACACTGCTTCCTCY			
5765 T	C	A		CAGAGAGGAAGCAGTGTCCTGCAGGGTTCTGTTTTATTTTATTTGACCAGGAAAACCAGTTGA			
5765 T	T	A		CAGAGAGGAAGCAGTGTCCTACAGGGTTCTGTTTTATTTTATTTGACCAGGAAAACCAGTTGA			
				TTTCTTTTCTACTGAAATTCAACTGGTTTTCCTGGTCAAATAAAATAAAACAGAACCCTG[CT]AGGACACTGCTTCCTCTCTGCAGTGTCTACCAGGACTACAT			
5765 IS	[CT]			TTGAGAGCACAATTGCTAC	ctg15907	6	
5775 I		S		GAGTGGGTTTTGAGTACAGTGGTTATCATTCTGACTCGATGAAA			
5775 P	A	S		CGCGCCGAGGTAGAAAGATTGGCTTTTAGGACY			
5775 P	G	S		ATGACGTGGCAGACCAGAAAGATTGGCTTTTAGGAY			
5775 T	A	S		CCAAGTCCTAAAAGCCAATCTTTCTATTCATCGAGTCAGAATGATAACCACTGTACTCAAAACCCACTCAC			
5775 T	G	S		CCAAGTCCTAAAAGCCAATCTTTCTGTTCATCGAGTCAGAATGATAACCACTGTACTCAAAACCCACTCAC			
				GTGTGGTTATCCTCATGATGCCTCAAAGTTTTTTACCAAGTCCTAAAAGCCAATCTTTCT[AG]TTCATCGAGTCAGAATGATAACCACTGTACTCAAAACCCAC			
5775 IS	[AG]			TCACCTTAGAACTTGATTT	ctg16537	20	
5827 I		A		GGAGTCTTGCTCTGTCGCCCAGGCTGC			
5827 P	G	A		ATGACGTGGCAGACGCACGATCTCAGCTCA			
5827 P	T	A		CGCGCCGAGGTCACGATCTCAGCTCAC			
5827 T	G	A		TGCAGTGAGCTGAGATCGTGCCAGCCTGGGCGACAGAGCAAGACTCCGT			
5827 T	T	A		TGCAGTGAGCTGAGATCGTGACAGCCTGGGCGACAGAGCAAGACTCCGT			
				GGGAGTCCCTTTTCTCTTTTTTAAAAATTGAGACGGAGTCTTGCTCTGTCGCCCAGGCTG[GT]CACGATCTCAGCTCACTGCATCCTCCACCTCCTGGGCTC			
5827 IS	[GT]			AAGTGATTCTCCTGCCTCAGC	ctg14715	1	
5836 I		S		CTTGTTGCCCAGGCTGGAGTGCAATGGT			
5836 P	C	S		ATGACGTGGCAGACGGTGACCTCGGCTC			
5836 P	T	S		CGCGCCGAGGAGTGACCTCGGCTC			
5836 T	C	S		CAGTGAGCCGAGGTCACCCCATTGCACTCCAGCCTGGGCAACAAGAG			
5836 T	T	S		CAGTGAGCCGAGGTCACTCCATTGCACTCCAGCCTGGGCAACAAGAG			
				GGCTGAGGCAGGAGAATTGCTTGAACCTGAGAAGCGGAGATTGCAGTGAGCCGAGGTCAC[CT]CCATTGCACTCCAGCCTGGGCAACAAGAGCGAAACTC			
5836 IS	[CT]			CACCTCAGAAAAAGAAATAAGAA	ctg15064	7	
5882 I		A		CAGCTTGGTCCTCTGCGCCAGCTCA			
5882 P	C	A		ATGACGTGGCAGACCTCGCGGGGTGTATATGT			
5882 P	T	A		CGCGCCGAGGTTCGCGGGTGTATATGT			
5882 T	C	A		CCAGACATATACACCCGCGAGGAGCTGGCGCAGAGGACCAAGCTGAC			
5882 T	T	A		CCAGACATATACACCCGCGAAGAGCTGGCGCAGAGGACCAAGCTGAC			
				CCGCAGGTGCCTCCTCACCTGCACACGCGCCTCTGTCAGCTTGGTCCTCTGCGCCAGCTC[CT]TCGCGGGTGTATATGTCTGGGTAGTGGGTCCTCTCAA			
5882 IS	[CT]			AGGCCTTCTCCAGCTCCTCCAGC	ctg15064	7	
5885 I		S		CCTTGTCCCTTGCTTTTTTTGTCCCCCAGCA			
5885 P	A	S		CGCGCCGAGGTGATGGGCACTCTGC			
5885 P	G	S		ATGACGTGGCAGACCGATGGGCACTCTG			
5885 T	A	S		TTGGGCAGAGTGCCCATCAGCTGGGGGACAAAAAAAGCAAGGGACAAGGTT			
5885 T	G	S		TTGGGCAGAGTGCCCATCGGCTGGGGGACAAAAAAAGCAAGGGACAAGGTT			
				GGAGCCATAGCGAACGTAGCCCTCTCGCGGTGGGAAGTCTCCTTGGGCAGAGTGCCCATC[AG]GCTGGGGGACAAAAAAAGCAAGGGACAAGGTTTTCAG			
5885 IS	[AG]			CGGCCCCCAAGCTTCTGCCTTAA	ctg19	19	
5942 I		A		GGGCTGTTTATTTCACCTGCATGCAGATAGCCCT			
5942 P	G	A		ATGACGTGGCAGACGCCCGGACACCAC			
5942 P	A	A		CGCGCCGAGGACCCGGACACCAC			
5942 T	G	A		TGGGGTGGTGTCCGGGCGGGCTATCTGCATGCAGGTGAAATAAACAGCCCCT			
5942 T	A	A		TGGGGTGGTGTCCGGGTGGGCTATCTGCATGCAGGTGAAATAAACAGCCCCT			
				GTTTCCTGTGACCAAGCAAAGTGCTAGGGGCTGTTTATTTCACCTGCATGCAGATAGCCC[GA]CCCGGACACCACCCCAAAAGGATGAGCACACCCTGAGA			
5942 IS	[GA]			CCAGCCATGTCTAGAGGCCAAC	ctg_na	NA	
5946 I		S		CTGCAGGAACACGGCAAGGAGCCAGA			
5946 P	G	S		ATGACGTGGCAGACCGTGTTGCTTGCCA			
5946 P	A	S		CGCGCCGAGGTGTGTTGCTTGCCAC			
5946 T	G	S		CTCTGTGGCAAGCAACACGCTGGCTCCTTGCCGTGTTCCTGCAGCT			
5946 T	A	S		CTCTGTGGCAAGCAACACACTGGCTCCTTGCCGTGTTCCTGCAGCT			
				TTGTCATCCATGAGTCTAAAGATTATTGGAGTTAACTGCATTCTCTGTGGCAAGCAACAC[GA]CTGGCTCCTTGCCGTGTTCCTGCAGCTTTCTGGACTCAG			
5946 IS	[GA]			TGCTGTCCATTGGTGACACTG	ctg15907	6	
6027 I		A		GTTATGAAAGGTGCTCAGTTTCTGGTGTTGAGCCAT			
6027 P	G	A		ATGACGTGGCAGACGGCCCTGCGCAY			
6027 P	A	A		CGCGCCGAGGAGCCCTGCGCAAAY			
6027 T	G	A		CCGCTTTGCGCAGGGCCTGGCTCAACACCAGAAACTGAGCACCTTTCATAACCC			
6027 T	A	A		CCGCTTTGCGCAGGGCTTGGCTCAACACCAGAAACTGAGCACCTTTCATAACCC			
				GAAGTCCGCAGGTCATGGTGCTGGGGTTATGAAAGGTGCTCAGTTTCTGGTGTTGAGCCA[GA]GCCCTGCGCAAAGCGGGTAACATAGGTATGTTTCTTGG			
6027 IS	[GA]			CTGGGGGCCACTGCTCTACATG	ctg15907	6	
6115 I		A		TGGTGGCCTGTGGCTGTCCTACCCT			
6115 P	A	A		CGCGCCGAGGAAGTGCCATCATCATCTG			
6115 P	G	A		ATGACGTGGCAGACGAGTGCCATCATCATCTG			
6115 T	A	A		TTCCCAGATGATGATGGCACTTGGGTAGGACAGCCACAGGCCACCACA			
6115 T	G	A		TTCCCAGATGATGATGGCACTCGGGTAGGACAGCCACAGGCCACCACA			
				TCTAGGCACGGGACCACATGAGGGGAGGCATGATTGTGGTGGCCTGTGGCTGTCCTACCC[AG]AGTGCCATCATCATCTGGGAATGGTGGCCGGGTGTGT			
6115 IS	[AG]			TTCCATGGCCTGCGGCTGCGTGT	ctg13255	6	
6127 I		A		CCAAGGTTCCTGTGCAGGACCAGGTTCTTTA			
6127 P	T	A		CGCGCCGAGGTGCTGGGCTCCAAG			
6127 P	C	A		ATGACGTGGCAGACCGCTGGGCTCCAA			
6127 T	T	A		AGATCTTGGAGCCCAGCAAAAGAACCTGGTCCTGCACAGGAACCTTGGTC			
6127 T	C	A		AGATCTTGGAGCCCAGCGAAAGAACCTGGTCCTGCACAGGAACCTTGGTC			

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FIGURE 129E

				AAAAAATCAAAGAACATGTCCGGTCTAAGACCAAGGTTCCTGTGCAGGACCAGGTTCTTT[TC]GCTGGGCTCCAAGATCTTAAAGCCACGGAGAAGCCTCTC			
6127 IS	[TC]			ATCTTATGGCATTGACAAAGA	ctg16857	14	UBD
6153 I			S	CGAGGAAACTCGTCCCCCCCACGTTAATA			
6153 P	G		S	ATGACGTGGCAGACCCTGACCGACTTTGC			
6153 P	A		S	CGCGCCGAGGTCTGACCGACTTTGCC			
6153 T	G		S	ATGTGGCAAAGTCGGTCAGGATTAACGTGGGGGGGACGAGTTTCCTCGGA			
6153 T	A		S	ATGTGGCAAAGTCGGTCAGAATTAACGTGGGGGGGACGAGTTTCCTCGGA			
				AAGGTGCATTTGGCTCTCACCAGAAATGGTTTGCTGGCTCCATGTGGCAAAGTCGGTCAG[GA]ATTAACGTGGGGGGGACGAGTTTCCTCGGAGCTGGGA			
6153 IS	[GA]			TCTGTGTTAAGGAGCTGGGGTCC	MULTIPLE	MULTIPLE	
6165 I			A	CTCTCCCCTGCTATCTCAGCCTCCAGAGTT			
6165 P	C		A	ATGACGTGGCAGACCGCCTGCTTCTCTCG			
6165 P	A		A	CGCGCCGAGGAGCCTGCTTCTCTCG			
6165 T	C		A	CCTGCGAGAAGAAGCAGGCGACTCTGGAGGCTGAGATAGCAGGGGAGAGCA			
6165 T	A		A	CCTGCGAGAGAAGCAGGCTACTCTGGAGGCTGAGATAGCAGGGGAGAGCA			
				CCAAGGACAAGCTGTCTGACCCCTAACCTTGCTCTCCCCTGCTATCTCAGCCTCCAGAGT[CA]GCCTGCTTCTCTCGCAGGCGCTTCTGTTTGGCTTCACG			
6165 IS	[CA]			GTTCCTCCGGGAGATGGGAGAT	ctg17748	14	
6192 I			S	TGGAGGAAAAACCTACAGGATAATAAAGATCCATGGGGATTTTCAAAAAGT			
6192 P	T		S	CGCGCCGAGGATCGTGCATCCCTGT			
6192 P	C		S	ATGACGTGGCAGACGTCGTGCATCCCTGT			
6192 T	T		S	AAACACAGGGATGCACGATCTTTTTGAAAATCCCCATGGATCTTTATTATCCTGTAGGTTTTTCCTCCAGA			
6192 T	C		S	AAACACAGGGATGCACGACCTTTTTGAAAATCCCCATGGATCTTTATTATCCTGTAGGTTTTTCCTCCAGA			
				TGCTGGAAACAGATGATATGCTTAAAGGAAAAACAAAAGTGTAAACACAGGGATGCACGA[TC]CTTTTTGAAAATCCCCATGGATCTTTATTATCCTGTAGGT			
6192 IS	[TC]			TTTTCCTCCAGAAGTTTGAG	ctg18433	19	
6219 I			A	GAGAGAGCGGAGCTTTTACCAAAAAGGCTGCATA			
6219 P	C		A	ATGACGTGGCAGACCCTCACTAATATACAGTAGGAAAC			
6219 P	T		A	CGCGCCGAGGTCTCACTAATATACAGTAGGAAAC			
6219 T	C		A	TGAAGTTTCCTACTGTATATTAGTGAGGATGCAGCCTTTTTGGTAAAAGCTCCGCTCTCTCTT			
6219 T	T		A	TGAAGTTTCCTACTGTATATTAGTGAGAATGCAGCCTTTTTGGTAAAAGCTCCGCTCTCTGTT			
				GAGCCTGGTGTGGAAAATCTACTGCAAGAGAGAGCGGAGCTTTTACCAAAAAGGCTGCAT[CT]CTCACTAATATACAGTAGGAAACTTCACCCAGGGTCTCT			
6219 IS	[CT]			GGGTCTGGAAAGAAAATTGAA	ctg21fin5	21	
6248 I			S	CAATCCCCAGGAGGGAATCCTATCCTAGAGTCTATCTGTTAA			
6248 P	A		S	CGCGCCGAGGTCAGGACCCCATCTCAY			
6248 P	G		S	ATGACGTGGCAGACCCAGGACCCCATCTCY			
6248 T	A		S	GCCCTGAGATGGGGTCCTGATAACAGATAGACTCTAGGATAGGATTCCCTCCTGGGGATTGCG			
6248 T	G		S	GCCCTGAGATGGGGTCCTGGTAACAGATAGACTCTAGGATAGGATTCCCTCCTGGGGATTGCG			
				TACGGACTTGCTGTTAGGATGGGAATTATGGATCAGGAATTGCCCTGAGATGGGGTCCTG[AG]TAACAGATAGACTCTAGGATAGGATTCCCTCCTGGGGA			
6248 IS	[AG]			TTGCGGCAGAGTGTACTTGCAA	ctg11	15	
6252 I			A	CGACTCTCTGAGACTCAGCGTTTCCAACAAGCT			
6252 P	A		A	CGCGCCGAGGAGGGCTTTGTCAGAAGAY			
6252 P	G		A	ATGACGTGGCAGACGGGGCTTTGTCAGAAGY			
6252 T	A		A	CAGTTCTTCTGACAAAGCCCTGCTTGTTGGAAACGCTGAGTCTCAGAGAGTCGCC			
6252 T	G		A	CAGTTCTTCTGACAAAGCCCCGCTTGTTGGAAACGCTGAGTCTCAGAGAGTCGCC			
				TCTTGGCTTCTCTTATTTCTAGGACTGGCGACTCTCTGAGACTCAGCGTTTCCAACAAGC[AG]GGGCTTTGTCAGAAGAACTGTGGGCTCCGAGGGAGGCC			
6252 IS	[AG]			CTGGTCATGGGGTCACCTGCAT	ctg22fin3	22	
6303 I			A	TGACTCCTGTGCCCCACCATGGACACT			
6303 P	A		A	CGCGCCGAGGACTTTGCTACACACTCCT			
6303 P	G		A	ATGACGTGGCAGACGCTTTGCTACACACTCC			
6303 T	A		A	CAGCAGGAGTGTGTAGCAAAGTGTGTCCATGGTGGGGCACAGGAGTCACT			
6303 T	G		A	CAGCAGGAGTGTGTAGCAAAGCGTGTCCATGGTGGGGCACAGGAGTCACT			
				TGGGTTCAAAAGCTGAGCACGGGGCCTCGCTCAGTGACTCCTGTGCCCCACCATGGACAC[AG]CTTTGCTACACACTCCTGCTGCTGACCACCCCTTCCTG			
6303 IS	[AG]			TGAGTGCTGTGGTCAGGGACTT	ctg22fin3	22	
6317 I			A	CCACATACGCTGAGCGCCTCACACTCCTATAACT			
6317 P	G		A	ATGACGTGGCAGACGCGCACATGCCC			
6317 P	A		A	CGCGCCGAGGACGCACATGCCCT			
6317 T	G		A	CATCAGGGCATGTGCGCGTTATAGGAGTGTGAGGCGCTCAGCGTATGTGGGT			
6317 T	A		A	CATCAGGGCATGTGCGTGTTATAGGAGTGTGAGGCGCTCAGCGTATGTGGGT			
				GACCCTCAACTCACACAGTCCTGAGACCCACATACGCTGAGCGCCTCACACTCCTATAAC[GA]CGCACATGCCCTGATGCACACACATTTTCAACACGCACT			
6317 IS	[GA]			TACTCTACCCTTCAGGCATGG	ctg17042	11	
6339 I			A	TGGGGATATGCGTAAGAGGAAGTTGAGTACCCAATTTTGTTTTTAC			
6339 P	T		A	CGCGCCGAGGTGATTTTTCTTAAAAAGAATCCCTAAY			
6339 P	G		A	ATGACGTGGCAGACGGATTTTTCTTAAAAAGAATCCCTY			
6339 T	T		A	ATTTTTAGGGATTCTTTTTAAGAAAAATCATAAAAACAAAATTGGGTACTCAACTTCCTCTTACGCATATCCCCAAA			
6339 T	G		A	ATTTTTAGGGATTCTTTTTAAGAAAAATCCTAAAAACAAAATTGGGTACTCAACTTCCTCTTACGCATATCCCCAAA			
				AGTTCATGGGCATTTTGGGGATATGCGTAAGAGGAAGTTGAGTACCCAATTTTGTTTTTA[TG]GATTTTTCTTAAAAAGAATCCCTAAAAATTATGTGAGATTT			
6339 IS	[TG]			CAGGCCCCACAAAACTTGG	ctg15330	9	
6372 I			S	CCAAGTCATTAAGTATGCAAAAATTGCATACACACAAATAGAAATAGTC			
6372 P	C		S	ATGACGTGGCAGACGCCTTTCTAGACTTTCTGATTY			
6372 P	A		S	CGCGCCGAGGTCCTTTCTAGACTTTCTGATTGY			
6372 T	C		S	TTTGCAATCAGAAAGTCTAGAAAGGCACTATTTCTATTTGTGTGTATGCAATTTTTGCATACTTAATGACTTGGTA			
6372 T	A		S	TTTGCAATCAGAAAGTCTAGAAAGGAACTATTTCTATTTGTGTGTATGCAATTTTTGCATACTTAATGACTTGGTA			
				GGGAAATGCTCAGATTTCATTATTGTATTCAGGATTTTGCAATCAGAAAGTCTAGAAAGG[CA]ACTATTTCTATTTGTGTGTATGCAATTTTTGCATACTTAAT			
6372 IS	[CA]			GACTTGGTATGGTTATTGT	ctg16291	9	
6375 I			S	TGATTCTTGATGCACAGAGCTTTATGTCTGTGGTAA			
6375 P	A		S	CGCGCCGAGGTGTTCATGTAAATGCTTATGATGY			
6375 P	G		S	ATGACGTGGCAGACCGTTCATGTAAATGCTTATGATY			
6375 T	A		S	TTGGCATCATAAGCATTTACATGAACATACCACAGACATAAAGCTCTGTGCATCAAGAATCATT			
6375 T	G		S	TTGGCATCATAAGCATTTACATGAACGTACCACAGACATAAAGCTCTGTGCATCAAGAATCATT			
				CATCACCTGTGGGAGAAAGACTTGATTTTAACAATTGGCATCATAAGCATTTACATGAAC[AG]TACCACAGACATAAAGCTCTGTGCATCAAGAATCATTTTAA			
6375 IS	[AG]			AGGAAACAATCAGTGAACC	ctg16291	9	
6412 I			S	GCGAGAAACCCTGACTGCACAGATCCATCCA			
6412 P	G		S	ATGACGTGGCAGACCGGGACAGCACCGY			
6412 P	A		S	CGCGCCGAGGTGGGACAGCACCGY			
6412 T	G		S	CTCACGGTGCTGTCCCGGGATGGATCTGTGCAGTCAGGGTTTCTCGCTG			
6412 T	A		S	CTCACGGTGCTGTCCCAGGATGGATCTGTGCAGTCAGGGTTTCTCGCTG			
				CTGTGATTTCCTCTTCCCCAGAGCCCCACAGTCTTTGTTACAACCTCACGGTGCTGTCCC[GA]GGATGGATCTGTGCAGTCAGGGTTTCTCGCTGAGGGAC			
6412 IS	[GA]			ATCTGGATGGTCAGCTCTTCCT	ctg25099	7	
6419 I			A	GGGAGAGGCTTCATCAGCCTGCCTGGT			
6419 P	A		A	CGCGCCGAGGAGTCTGGTGTCCAGATAAGY			
6419 P	C		A	ATGACGTGGCAGACCGTCTGGTGTCCAGATY			
6419 T	A		A	GCATCTTATCTGGACACCAGACTCCAGGCAGGCTGATGAAGCCTCTCCCCG			
6419 T	C		A	GCATCTTATCTGGACACCAGACGCCAGGCAGGCTGATGAAGCCTCTCCCCG			
				AACAGACAGAAGCCTCTGAAGCCATCGGAGCCCGGGGAGAGGCTTCATCAGCCTGCCTGG[AC]GTCTGGTGTCCAGATAAGATGCTAAGGCAGATGCCCA			
6419 IS	[AC]			GAGGAAACAATGACAGGGGTATG	MULTIPLE	MULTIPLE	
6477 I			S	CCAATGCATAGGTCTCAATATTGACTGATGCTCTCTCCACA			
6477 P	G		S	ATGACGTGGCAGACCTCCTAGCATTACTTTTAAACTTCY			
6477 P	A		S	CGCGCCGAGGTTCCTAGCATTACTTTTAAACTTCY			
6477 T	G		S	TCCAGAAGTTTAAAAGTAATGCTAGGAGGTGGAGAGAGCATCAGTCAATATTGAGACCTATGCATTGGGG			
6477 T	A		S	TCCAGAAGTTTAAAAGTAATGCTAGGAAGTGGAGAGAGCATCAGTCAATATTGAGACCTATGCATTGGGG			

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FIGURE 129E

				CTTCAATCGTGACTTGGGCAGTGGTAGGCAAGTTCCAGAAGTTTAAAAGTAATGCTAGGA[GA]GTGGAGAGAGCATCAGTCAATATTGAGACCTATGCATTG			
6477 IS	[GA]			GGGTGAAAAGATGTGGCCCTG	ctg16291	9	
6486 I			S	CCAGCTCTGAAACAGAATGCAGAGTCAAGGGGATTTCA			
6486 P	A		S	CGCGCCGAGGTGACAGCTTCATTCCCAY			
6486 P	G		S	ATGACGTGGCAGACCGACAGCTTCATTCCCY			
6486 T	A		S	GAATTGGGAATGAAGCTGTCAGAAATCCCCTTGACTCTGCATTCTGTTTCAGAGCTGGTG			
6486 T	G		S	GAATTGGGAATGAAGCTGTCGGAAATCCCCTTGACTCTGCATTCTGTTTCAGAGCTGGTG			
				ACAGACCCTCCTACAAGATGAGATAGCAGAAGACTATGGTGAATTGGGAATGAAGCTGTC[AG]GAAATCCCCTTGACTCTGCATTCTGTTTCAGAGCTGGTG			
6486 IS	[AG]			CGGCTCTGCTTGCGCAGATCT	ctg16114	X	BAZ1B
6565 I			S	GGCTGGGGACATGTTATGGACTCAGCGTCA			
6565 P	A		S	CGCGCCGAGGTTCCCTGTCCCTGC			
6565 P	G		S	ATGACGTGGCAGACCTCCCTGTCCCTGC			
6565 T	A		S	ACCTGCAGGGACAGGGAAGACGCTGAGTCCATAACATGTCCCCAGCCCC			
6565 T	G		S	ACCTGCAGGGACAGGGAGGACGCTGAGTCCATAACATGTCCCCAGCCCC			
				AGTAGGGGTAAAGCACGTCAACGGGCAGCTCCACAAACACCGGACCTGCAGGGACAGGGA[AG]GACGCTGAGTCCATAACATGTCCCCAGCCCCTCGGCC			
6565 IS	[AG]			CCAGCACTGCTCAGCATCACCAT	ctg14243	19	
6566 I			S	TCTAATGCCATTTCACTCTTTATCCAAACCAAATTATAAAACATCATCAA			
6566 P	G		S	ATGACGTGGCAGACCATGTCCTCTGTGTGTG			
6566 P	A		S	CGCGCCGAGGTATGTCCTCTGTGTGTGT			
6566 T	G		S	CATCACACACACAGAGGACATGTGATGATGTTTTATAATTTGGTTTGGATAAAGAGTGAAATGGCATTAGAAA			
6566 T	A		S	CATCACACACACAGAGGACATATGATGATGTTTTATAATTTGGTTTGGATAAAGAGTGAAATGGCATTAGAAA			
				CTTTGAACAAAACAAACAAACAAACAACAAAAAACCATCACACACACAGAGGACAT[GA]TGATGATGTTTTATAATTTGGTTTGGATAAAGAGTGAAATG			
6566 IS	[GA]			GCATTAGAAAATGCTTTGA	ctg14243	19	
6580 I			A	GCTCTGGCTGTCCAAACCTGACGGAGTTT			
6580 P	C		A	CGCGCCGAGGCCAGGTGTGCCAATC			
6580 P	G		A	ATGACGTGGCAGACGCAGGTGTGCCAATC			
6580 T	C		A	ACTGGATTGGCACACCTGGAACTCCGTCAGGTTTGGACAGCCAGAGCCT			
6580 T	G		A	ACTGGATTGGCACACCTGCAACTCCGTCAGGTTTGGACAGCCAGAGCCT			
				GCGTCATGTGGTGGCGCCCCCGCAGTTCGGAGGCTCTGGCTGTCCAAACCTGACGGAGTT[CG]CAGGTGTGCCAATCCAGTCCATGCGAGGCCGAGGAG			
6580 IS	[CG]			CTCAGGTACAGCCTGCATGTGGGG	ctg14243	19	
6582 I			S	TGCTCTCTCCACCTCCTAGCATTACTTTTAAACTTCTGGAACA			
6582 P	A		S	CGCGCCGAGGTTGCCTACCACTGCC			
6582 P	G		S	ATGACGTGGCAGACCTGCCTACCACTGCC			
6582 T	A		S	CTTGGGCAGTGGTAGGCAAGTTCCAGAAGTTTAAAAGTAATGCTAGGAGGTGGAGAGAGCATC			
6582 T	G		S	CTTGGGCAGTGGTAGGCAGGTTCCAGAAGTTTAAAAGTAATGCTAGGAGGTGGAGAGAGCATC			
				CCTTCCCCTTGGAAACTTTGGTTGGCTCGGCTTCAATCGTGACTTGGGCAGTGGTAGGCA[AG]GTTCCAGAAGTTTAAAAGTAATGCTAGGAGGTGGAGAG			
6582 IS	[AG]			AGCATCAGTCAATATTGAGACC	ctg15944	11	
6612 I			A	TGCATTTTGGAATTTTTCTTCATACTAACACATGATAAAAGATAAATTTACCTTCTTTAA			
6612 P	C		A	ATGACGTGGCAGACCGTCTTTCAGACTTGAAGG			
6612 P	T		A	CGCGCCGAGGTGTCTTTCAGACTTGAAGG			
6612 T	C		A	ACAGCCTTCAAGTCTGAAAGACGTAAAGAAGGTAAATTTATCTTTTATCATGTGTTAGTATGAAGAAAAATTCCAAAATGCAA			
6612 T	T		A	ACAGCCTTCAAGTCTGAAAGACATAAAGAAGGTAAATTTATCTTTTATCATGTGTTAGTATGAAGAAAAATTCCAAAATGCAA			
				TTGCATTTTGGAATTTTTCTTCATACTAACACATGATAAAAGATAAATTTACCTTCTTTA[CT]GTCTTTCAGACTTGAAGGCTGTGTGGAAGATCAAGGAGTTA			
6612 IS	[CT]			CCTCTCAAGAAGGACTTCT	ctg13740	5	
6624 I			S	TCGCACCTGCCACCAGCCCCT			
6624 P	T		S	CGCGCCGAGGAAAGGCTGGGACTACCY			
6624 P	C		S	ATGACGTGGCAGACGAAGGCTGGGACTACCY			
6624 T	T		S	CTGTGGTAGTCCCAGCCTTTGGGGCTGGTGGCAGGTGCGACA			
6624 T	C		S	CTGTGGTAGTCCCAGCCTTCGGGGCTGGTGGCAGGTGCGACA			
				AGTGATGTTTTGCAGGAGGCGTCGAACACTGGAAACAGGTTCTGTGGTAGTCCCAGCCTT[TC]GGGGCTGGTGGCAGGTGCGACAGGTTGTACATGGGCA			
6624 IS	[TC]			GGAGTGTTAACACTTCTAATCAG	ctg15064	7	
6645 I			S	CAGATTTCTGAAGTTCGACAAGCAGACAAAGATGGGGAC			
6645 P	A		S	CGCGCCGAGGTGGAGGTTCCTGGTGY			
6645 P	T		S	ATGACGTGGCAGACAGGAGGTTCCTGGTGY			
6645 T	A		S	CCTGCACCAGGAACCTCCATCCCCATCTTTGTCTGCTTGTCGAACTTCAGAAATCTGCA			
6645 T	T		S	CCTGCACCAGGAACCTCCTTCCCCATCTTTGTCTGCTTGTCGAACTTCAGAAATCTGCA			
				TCTTAGTTATCTTGCATGCTCTGGTCTTTGCATACGCTGCTCCCTGCACCAGGAACCTCC[AT]TCCCCATCTTTGTCTGCTTGTCGAACTTCAGAAATCTGCA			
6645 IS	[AT]			AGGGTCAGCTTAGAGGTCAC	ctg15064	7	
6647 I			A	GTGAGTCTGCTGAGCATCCTGCCCCAAA			
6647 P	C		A	ATGACGTGGCAGACCGGGAGGAAGTGTTTGY			
6647 P	T		A	CGCGCCGAGGTGGGAGGAAGTGTTTGGY			
6647 T	C		A	AGCTCCAAACACTTCCTCCCGTTGGGGCAGGATGCTCAGCAGACTCACCC			
6647 T	T		A	AGCTCCAAACACTTCCTCCCATTGGGGCAGGATGCTCAGCAGACTCACCC			
				TGGAGGGGCTTCGACAGGTGTGCTGGATTTGGGGTGAGTCTGCTGAGCATCCTGCCCCAA[CT]GGGAGGAAGTGTTTGGAGCTTTCTTGTTTCTCCATGTT			
6647 IS	[CT]			AGGATTAGGCTTTGTTTGCATG	ctg13206	14	
6654 I			S	CAACAACGGCAGCAGCAGCAT			
6654 P	T		S	CGCGCCGAGGACAGCAGCAACAGCY			
6654 P	C		S	ATGACGTGGCAGACGCAGCAGCAACAGCY			
6654 T	T		S	TCTTGCTGTTGCTGCTGTTGCTGCTGCTGCTGCCGTTGTTGCT			
6654 T	C		S	TCTTGCTGTTGCTGCTGCTGCTGCTGCTGCTGCCGTTGTTGCT			
				CCCCGCATCCCCTTGGTTCATGTGCCTGAACAGTTCCTGGTATTCTTGCTGTTGCTGCTG[TC]TGCTGCTGCTGCTGCCGTTGTTGCTGCTGCCTTTTAATG			
6654 IS	[TC]			AGCTGTGCAAACTCTGTTGGG			
6657 I			S	GACTAGTGAAGGACAGATGACCCCTGAACAGCACT			
6657 P	T		S	CGCGCCGAGGAGGTTTGGACTGTATGGGY			
6657 P	C		S	ATGACGTGGCAGACGGGTTTGGACTGTATGGY			
6657 T	T		S	CGGACCCATACAGTCCAAACCTGTGCTGTTCAGGGGTCATCTGTCCTTCACTAGTCTG			
6657 T	C		S	CGGACCCATACAGTCCAAACCCGTGCTGTTCAGGGGTCATCTGTCCTTCACTAGTCTG			
				AGGGCAGACTGTATTTATTTACAACAATTTGTGTATAAGCGGACCCATACAGTCCAAACC[TC]GTGCTGTTCAGGGGTCATCTGTCCTTCACTAGTCTGGGG			
6657 IS	[TC]			TTGCCCCCCGTGGATTTCCTG	ctg19247	7	
6658 I			A	GCCAAGTTTTGCATTATTCTCAGAGGAGCTCAGCAGATTCT			
6658 P	A		A	CGCGCCGAGGAGTGAACAGGAGCCTTY			
6658 P	G		A	ATGACGTGGCAGACGGTGAACAGGAGCCTY			
6658 T	A		A	GTTCAAGGCTCCTGTTCACTGAATCTGCTGAGCTCCTCTGAGAATAATGCAAAACTTGGCTA			
6658 T	G		A	GTTCAAGGCTCCTGTTCACCGAATCTGCTGAGCTCCTCTGAGAATAATGCAAAACTTGGCTA			
				GGCCACATGGTGGTAGAATAGCCAAGTTTTGCATTATTCTCAGAGGAGCTCAGCAGATTC[AG]GTGAACAGGAGCCTTGAACTCCATGATGTCGCCCTGCT			
6658 IS	[AG]			CCCCTCTTTTTGGGAAGAACGC	ctg25099	7	
6659 I			A	TCAGCAGATTCAGTGAACAGGAGCCTTGAACTCCT			
6659 P	A		A	CGCGCCGAGGATGATGTCGCCCTGCY			
6659 P	G		A	ATGACGTGGCAGACGTGATGTCGCCCTGY			
6659 T	A		A	GGGAGCAGGGCGACATCATGGAGTTCAAGGCTCCTGTTCACTGAATCTGCTGAGC			
6659 T	G		A	GGGAGCAGGGCGACATCACGGAGTTCAAGGCTCCTGTTCACTGAATCTGCTGAGC			
				AAGTTTTGCATTATTCTCAGAGGAGCTCAGCAGATTCAGTGAACAGGAGCCTTGAACTCC[AG]TGATGTCGCCCTGCTCCCCTCTTTTTGGGAAGAACGCGT			
6659 IS	[AG]			TGCTAGCCCTGACATTTCTCT	ctg25099	7	
6665 I			A	AGCAGGTACTCGCAGGTGCCTTGGAAATA			
6665 P	C		A	ATGACGTGGCAGACCGAATCGGTGCCCAY			
6665 P	T		A	CGCGCCGAGGTGAATCGGTGCCCATY			
6665 T	C		A	CTGGATGGGCACCGATTCGATTTCCAAGGCACCTGCGAGTACCTGCTGA			
6665 T	T		A	CTGGATGGGCACCGATTCAATTTCCAAGGCACCTGCGAGTACCTGCTGA			

FIGURE 129E

				CCCCCAAGGGTGGTCCGTGGCAGGGTGCACTCAGCAGGTACTCGCAGGTGCCTTGGAAAT[CT]GAATCGGTGCCCATCCAGAGTGACGTAATGGGGGTCA			
6665 IS	[CT]			CCCCACGCCTGGCACTCAGCTGT	ctg18037	7	FC(GAMMA
6671 I			A	CATCTGCACACGCCCTCCAGCCTCT			
6671 P	G		A	ATGACGTGGCAGACGGGACCTGTCCGCY			
6671 P	A		A	CGCGCCGAGGAGGACCTGTCCGCY			
6671 T	G		A	AGGGGCGGACAGGTCCCGAGGCTGGAGGGCGTGTGCAGATGGG			
6671 T	A		A	AGGGGCGGACAGGTCCTGAGGCTGGAGGGCGTGTGCAGATGGG			
				CCTTAATGAAGCTGACAGCCCCTTGCTCCCCCGACCCATCTGCACACGCCCTCCAGCCTC[GA]GGACCTGTCCGCCCCTACTTCTCTGTGTTGGGAATGCC			
6671 IS	[GA]			TCTCCTTTCCTAGTAGTGAGCT			
6722 I			A	GTATGGGAGATCATCAGCTCTGTGACTGGTTAATT			
6722 P	A		A	CGCGCCGAGGATAGTTTTTCCCAAGAGCACY			
6722 P	G		A	ATGACGTGGCAGACGTAGTTTTTCCCAAGAGCAY			
6722 T	A		A	AGGAGTGCTCTTGGGAAAAACTATATTAACCAGTCACAGAGCTGATGATCTCCCATACTG			
6722 T	G		A	AGGAGTGCTCTTGGGAAAAACTACATTAACCAGTCACAGAGCTGATGATCTCCCATACTG			
				TCCCAAATGTCTAAATTACTAAATCAGTATGGGAGATCATCAGCTCTGTGACTGGTTAAT[AG]TAGTTTTTCCCAAGAGCACTCCTTCTCTGACCGAGGAAAT			
6722 IS	[AG]			GCTGGAAATCGATGGGATAA	ctg15590	7	
6725 I			S	GGTGAAACTTAAGACAGCATTCTGATCAATCTATCTACTATCCTTAA			
6725 P	A		S	CGCGCCGAGGTGTGTCTTTCACTTATTAAATACACY			
6725 P	G		S	ATGACGTGGCAGACCGTGTCTTTCACTTATTAAATACAY			
6725 T	A		S	ATCTGTGTATTTAATAAGTGAAAGACACATAAGGATAGTAGATAGATTGATCAGAATGCTGTCTTAAGTTTCACCAG			
6725 T	G		S	ATCTGTGTATTTAATAAGTGAAAGACACGTAAGGATAGTAGATAGATTGATCAGAATGCTGTCTTAAGTTTCACCAG			
				GCTGAGAGCACTATTTACGTTTTTATCCCTCAATCTGTGTATTTAATAAGTGAAAGACAC[AG]TAAGGATAGTAGATAGATTGATCAGAATGCTGTCTTAAGTT			
6725 IS	[AG]			TCACCAGTAGCTTTACAAA	ctg15804	2	
6734 I			S	AGCCATTCTCATGGGGCCATGTCATACTTGTAAACTA			
6734 P	G		S	ATGACGTGGCAGACCCTGCTGGGCCAGY			
6734 P	A		S	CGCGCCGAGGTCTGCTGGGCCAGY			
6734 T	G		S	GTGGCTGGCCCAGCAGGAGTTTACAAGTATGACATGGCCCCATGAGAATGGCTGT			
6734 T	A		S	GTGGCTGGCCCAGCAGAAGTTTACAAGTATGACATGGCCCCATGAGAATGGCTGT			
				GTGAGTAGGATGGGCTTCTGCCACGTTCAGCTACTCTTGTCTGTGTGGCTGGCCCAGCAG[GA]AGTTTACAAGTATGACATGGCCCCATGAGAATGGCTGT			
6734 IS	[GA]			CCTAGATTAGGCCAAGATCTGT	ctg14708	2	
6737 I			S	TGTAGTGAACCAAAAGAGGGGATATTAGTTCTGAATATGGAAGACAGTCA			
6737 P	G		S	ATGACGTGGCAGACCAGAGGATGCAGTTTGCY			
6737 P	A		S	CGCGCCGAGGTAGAGGATGCAGTTTGCTY			
6737 T	G		S	ATAAAGCAAACTGCATCCTCTGGACTGTCTTCCATATTCAGAACTAATATCCCCTCTTTTGGTTCACTACAGG			
6737 T	A		S	ATAAAGCAAACTGCATCCTCTAGACTGTCTTCCATATTCAGAACTAATATCCCCTCTTTTGGTTCACTACAGG			
				AAAATAAATAAATAAACAAATAAATAAGTAAATAAATAAATAAAGCAAACTGCATCCTCT[GA]GACTGTCTTCCATATTCAGAACTAATATCCCCTCTTTTGGTT			
6737 IS	[GA]			CACTACAGGGACTCTCTT	ctg14708	2	
6746 I			S	TGGAGCAGAAGGCGTGGTCCCCAA			
6746 P	A		S	CGCGCCGAGGTTTCCCCAGGTGGGY			
6746 P	G		S	ATGACGTGGCAGACCTTCCCCAGGTGGGY			
6746 T	A		S	CCGCCCCACCTGGGGAAATGGGGACCACGCCTTCTGCTCCACC			
6746 T	G		S	CCGCCCCACCTGGGGAAGTGGGGACCACGCCTTCTGCTCCACC			
				ACCTTCTCCCCTAGTTGGGGTGGACCAAAGAGCCTGCCTGTTCCCGCCCCACCTGGGGAA[AG]TGGGGACCACGCCTTCTGCTCCACCCCAACGCAATCG			
6746 IS	[AG]			GAGGAAATCTGTTCACCGAGTGT			TCF19
6788 I			S	CGCCTATTCCCTCTCCAAATACACCAGTCTCCCT			
6788 P	G		S	CGCGCCGAGGCTACCCACGCCTTAGGY			
6788 P	C		S	ATGACGTGGCAGACGTACCCACGCCTTAGGY			
6788 T	G		S	AACCCCTAAGGCGTGGGTAGGGGAGACTGGTGTATTTGGAGAGGGAATAGGCGGT			
6788 T	C		S	AACCCCTAAGGCGTGGGTACGGGAGACTGGTGTATTTGGAGAGGGAATAGGCGGT			
				GGCAGCTGGGCCAGGAGAAAGGGTTAAGTGAGAGTGAATACAACCCCTAAGGCGTGGGTA[GC]GGGAGACTGGTGTATTTGGAGAGGGAATAGGCGGTG			
6788 IS	[GC]			GTTAGTACTATTTTTAATGGTGCA	ctg16564	19	
6797 I			A	CATGAAACCCCCACCTCACCTAAGGATGACCA			
6797 P	C		A	ATGACGTGGCAGACCTGAGCCTCACAGCAY			
6797 P	T		A	CGCGCCGAGGTTGAGCCTCACAGCAY			
6797 T	C		A	GGGTTGCTGTGAGGCTCAGGGTCATCCTTAGGTGAGGTGGGGGTTTCATGGA			
6797 T	T		A	GGGTTGCTGTGAGGCTCAAGGTCATCCTTAGGTGAGGTGGGGGTTTCATGGA			
				TTAAAGAAGAGCAACCTCTATTCTGAGTCCATGAAACCCCCACCTCACCTAAGGATGACC[CT]TGAGCCTCACAGCAACCCTGGGATGCTCATGGTTTCTAA			
6797 IS	[CT]			ACTCCAATGGAGCTGTTCTTA	ctg16235	17	
6814 I			A	TGTGACCGTGAGCTGTCCCCCACCC			
6814 P	T		A	CGCGCCGAGGTCTCAGAGCACTCACAGY			
6814 P	A		A	ATGACGTGGCAGACACTCAGAGCACTCACAGY			
6814 T	T		A	AACTCTGTGAGTGCTCTGAGAGGTGGGGGACAGCTCACGGTCACACA			
6814 T	A		A	AACTCTGTGAGTGCTCTGAGTGGTGGGGGACAGCTCACGGTCACACA			
				TAGCTGACATACCTGGGATTGCATCCTCAGTGGATGTGTGACCGTGAGCTGTCCCCCACC[TA]CTCAGAGCACTCACAGAGTTGTTATAGTGGGTAGGGAT			
6814 IS	[TA]			GAAATAGGAGATAAAGGGGCAT	MULTIPLE	MULTIPLE	
6832 I			A	GGAAATATAGCAGATCACAACAGCATTTATAATGTATAAATTAAGACTAGATTTGAATAAT			
6832 P	G		A	ATGACGTGGCAGACGTACTTGATTTGCATTCAGCY			
6832 P	A		A	CGCGCCGAGGATACTTGATTTGCATTCAGCY			
6832 T	G		A	ATCTGCTGAATGCAAATCAAGTACTTATTCAAATCTAGTCTTAATTTATACATTATAAATGCTGTTGTGATCTGCTATATTTCC			
6832 T	A		A	ATCTGCTGAATGCAAATCAAGTATTTATTCAAATCTAGTCTTAATTTATACATTATAAATGCTGTTGTGATCTGCTATATTTCC			
				GGAAATATAGCAGATCACAACAGCATTTATAATGTATAAATTAAGACTAGATTTGAATAA[GA]TACTTGATTTGCATTCAGCAGATTTGTACTCAGAGCTGTTG			
6832 IS	[GA]			TATTTTATCCCACGTCAAT	ctg13420	5	
6855 I			S	GGGAGGTGTTTCTATGTTTTAGAAGCAAGATTTTTTTCCTACCTCTAGATTGA			
6855 P	A		S	CGCGCCGAGGTCAAAGTTTTATTTTGTTTTTATCTCTGY			
6855 P	G		S	ATGACGTGGCAGACCCAAAGTTTTATTTTGTTTTTATCTCTY			
6855 T	A		S	AGTACAGAGATAAAAACAAAATAAAACTTTGACAATCTAGAGGTAGGAAAAAAATCTTGCTTCTAAAACATAGAAACACCTCCCAA			
6855 T	G		S	AGTACAGAGATAAAAACAAAATAAAACTTTGGCAATCTAGAGGTAGGAAAAAAATCTTGCTTCTAAAACATAGAAACACCTCCCAA			
				TCTTCATATAAGGTCATAACATGAGTCATAGTACAGAGATAAAAACAAAATAAAACTTTG[AG]CAATCTAGAGGTAGGAAAAAAATCTTGCTTCTAAAACATAG			
6855 IS	[AG]			AAACACCTCCCAACCCTTC	ctg13420	5	
6866 I			A	TGAGGGCACAGGTTCAGCCCCATTTCTTCA			
6866 P	C		A	ATGACGTGGCAGACCCTATCCCAATCCCCAAY			
6866 P	T		A	CGCGCCGAGGTCTATCCCAATCCCCAAAY			
6866 T	C		A	AAGTTTTGGGGATTGGGATAGGGAAGAAATGGGGCTGAACCTGTGCCCTCATC			
6866 T	T		A	AAGTTTTGGGGATTGGGATAGAGAAGAAATGGGGCTGAACCTGTGCCCTCATC			
				TCCCGAGCAATTTTGTAGTCATACCTGAAGATGAGGGCACAGGTTCAGCCCCATTTCTTC[CT]CTATCCCAATCCCCAAAACTTCCCAATCCCCAAAACTTAA			
6866 IS	[CT]			CCGCAACCCACGCACATC	MULTIPLE	17	
6875 I			A	CGAAGTCTATCTGTAGGAAGGAATCCTCATTCACGGCT			
6875 P	A		A	CGCGCCGAGGAACGTCTGTGCTGACCY			
6875 P	G		A	ATGACGTGGCAGACGACGTCTGTGCTGACY			
6875 T	A		A	ACGTGGTCAGCACAGACGTTGCCGTGAATGAGGATTCCTTCCTACAGATAGACTTCGCT			
6875 T	G		A	ACGTGGTCAGCACAGACGTCGCCGTGAATGAGGATTCCTTCCTACAGATAGACTTCGCT			
				GTCTGTGACTGAGCAGGAGGCAGCGAAGTCTATCTGTAGGAAGGAATCCTCATTCACGGC[AG]ACGTCTGTGCTGACCACGTAACGGGTGCTGGCCTTTTC			
6875 IS	[AG]			AATGAAGACCAGGGCATCACCA			RELN
6899 I			S	GGCTCAGACCTGCCTGTTTCTTCCTGCCA			
6899 P	G		S	ATGACGTGGCAGACCACCCAATCCAGGTACAY			
6899 P	A		S	CGCGCCGAGGTACCCAATCCAGGTACATAY			
6899 T	G		S	AAAGTATGTACCTGGATTGGGTGGGCAGGAAGAAACAGGCAGGTCTGAGCCAG			
6899 T	A		S	AAAGTATGTACCTGGATTGGGTAGGCAGGAAGAAACAGGCAGGTCTGAGCCAG			

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FIGURE 129E

				TCCGGGTCACTTCCACGTAGTTCTTGGTGTCTATCCAAAAAGTATGTACCTGGATTGGGT[GA]GGCAGGAAGAAACAGGCAGGTCTGAGCCAGTGCACCTG		
6899	IS	[GA]		TCTGATTCAAGGTGGGCTTCTG	ctg13313	1
6907	I		A	CCCTGCCCTCCCTGCCCTGTAGAT		
6907	P	G	A	ATGACGTGGCAGACGATAGGAGTTGCTCTTACTTACY		
6907	P	C	A	CGCGCCGAGGCATAGGAGTTGCTCTTACTTACY		
6907	T	G	A	TCAAGTAAGTAAGAGCAACTCCTATCTCTACAGGGCAGGGAGGGCAGGGAC		
6907	T	C	A	TCAAGTAAGTAAGAGCAACTCCTATGTCTACAGGGCAGGGAGGGCAGGGAC		
				GGCACATACATTTTCCTGCTCCATGAGGGATCCTTGTCCCTGCCCTCCCTGCCCTGTAGA[GC]ATAGGAGTTGCTCTTACTTACTTGATCAAATACACATCAT		
6907	IS	[GC]		ACTTCCCAGCAGAGCGGCCA	ctg16318	19
6908	I		A	GTCCCAAACACTGGCGAGAGCCCTCTCTTTTTCA		
6908	P	C	A	ATGACGTGGCAGACCCCTCCTCCTGGGGY		
6908	P	T	A	CGCGCCGAGGTCCTCCTCCTGGGGY		
6908	T	C	A	GGAGCCCCAGGAGGAGGGGAAAAACAGAGGCTCTCGCCAGTGTTTGGGACCA		
6908	T	T	A	GGAGCCCCAGGAGGAGGAGAAAAAGAGAGGCTCTCGCCAGTGTTTGGGACCA		
				TGGAGATGCGCCGGGAAGGGCACAGCTGGTCCCAAACACTGGCGAGAGCCTCTCTTTTTC[CT]CCTCCTCCTGGGGCTCCCAGCAGCAGGGTGTGGCTG		
6908	IS	[CT]		GGATCCAGCCCAGGGCCCCCAGCT		
11095	I		S	CTGCTCAGACGTTTATTGTCCACCGCCCTA		
11095	P	G	S	ATGACGTGGCAGACCCCTCCCTGAGCCY		
11095	P	A	S	CGCGCCGAGGTCCTCCCTGAGCCCY		
11095	T	G	S	TTCTGGGCTCAGGGAGGGAGGGCGGTGGACAATAAACGTCTGAGCAGTG		
11095	T	A	S	TTCTGGGCTCAGGGAGGAAGGGCGGTGGACAATAAACGTCTGAGCAGTG		
				GCTGGGGCGGGGCCCAGGAGACCACGGGGAGCAAACCAGCTTGTTCTGGGCTCAGGGAGG[GA]AGGGCGGTGGACAATAAACGTCTGAGCAGTGCCTC		
11095	IS	[GA]		GTGGGTCTGGCCAGTGTCTCATGGG	ctg25448	18
11107	I		A	GGCGCAGGGAGAGGAGGGGTCAGT		
11107	P	C	A	ATGACGTGGCAGACCGGTTCCGCGACCY		
11107	P	A	A	CGCGCCGAGGAGGTTCCGCGACCY		
11107	T	C	A	GAGTGGTCGCGGAACCGCTGACCCCTCCTCTCCCTGCGCCTC		
11107	T	A	A	GAGTGGTCGCGGAACCTCTGACCCCTCCTCTCCCTGCGCCTC		
				GTTTCTCTCACCGTTCTCCAGCACTGCCCAGACCAGAGGCGCAGGGAGAGGAGGGGTCAG[CA]GGTTCCGCGACCACTCCTCCCGCTGTCCCTGCTCTCC		
11107	IS	[CA]		AGCCTCTGCCTCTGCAGGAGCCC	ctg15053	16
11114	I		A	GTAGCTTTGTTCACATGTTCGGCAGCATGTGAGAA		
11114	P	T	A	CGCGCCGAGGTGAAGTTACCTAAGCCGTY		
11114	P	C	A	ATGACGTGGCAGACCGAAGTTACCTAAGCCGY		
11114	T	T	A	GCCTACGGCTTAGGTAACTTCATCTCACATGCTGCCGAACATGTGAACAAAGCTACTG		
11114	T	C	A	GCCTACGGCTTAGGTAACTTCGTCTCACATGCTGCCGAACATGTGAACAAAGCTACTG		
				ATTACTCCAGACCTTCCTGTGTTTCAGTAGCTTTGTTCACATGTTCGGCAGCATGTGAGA[TC]GAAGTTACCTAAGCCGTAGGCAATTTTATGTGATTCTGCA		
11114	IS	[TC]		TAGTAGTCAATATGGTGATA	ctg832	11
11115	I		A	CCCTTTTAAGCTTCAGATCACCATCTAGTTCCCTCCACTA		
11115	P	C	A	ATGACGTGGCAGACCCCACCTCCCATTTCTY		
11115	P	T	A	CGCGCCGAGGTCCACCTCCCATTTCTTAY		
11115	T	C	A	AAAATAAGAAATGGGAGGTGGGAGTGGAGGGAACTAGATGGTGATCTGAAGCTTAAAAGGGAA		
11115	T	T	A	AAAATAAGAAATGGGAGGTGGAAGTGGAGGGAACTAGATGGTGATCTGAAGCTTAAAAGGGAA		
				ACAAGGTGAAAAGCAGGTTTTCCCTTTTAAGCTTCAGATCACCATCTAGTTCCCTCCACT[CT]CCACCTCCCATTTCTTATTTTGTCACACCAGTTCCATTGTA		
11115	IS	[CT]		GATGGTTACCTATTTTAAG		
11122	I		S	CCAGAAGTCTGGAAAGACAAGAGTGAAGGGATACATGAAAATAAATGATTGATAATT		
11122	P	T	S	CGCGCCGAGGACTACTACTAATAATATTGATTGATAATGTY		
11122	P	C	S	ATGACGTGGCAGACGCTACTACTAATAATATTGATTGATAATGTY		
11122	T	T	S	AATCACATTATCAATCAATATTATTAGTAGTAGTATTATCAATCATTTATTTTCATGTATCCCTTCACTCTTGTCTTTCCAGACTTCTGGAA		
11122	T	C	S	AATCACATTATCAATCAATATTATTAGTAGTAGCATTATCAATCATTTATTTTCATGTATCCCTTCACTCTTGTCTTTCCAGACTTCTGGAA		
				TACACTGCATGGTGCTGGGCACCTAGCAATCACATTATCAATCAATATTATTAGTAGTAG[TC]ATTATCAATCATTTATTTTCATGTATCCCTTCACTCTTGTCT		
11122	IS	[TC]		TTCCAGACTTCTGGAACG	ctg15972	16
11130	I		A	GGCAGGGGGCGCTCAGGAGCA		
11130	P	C	A	ATGACGTGGCAGACCACTGATCAGAGTCAGCY		
11130	P	T	A	CGCGCCGAGGTACTGATCAGAGTCAGCCY		
11130	T	C	A	CCGGGGCTGACTCTGATCAGTGGCTCCTGAGCGCCCCCTGCCGC		
11130	T	T	A	CCGGGGCTGACTCTGATCAGTAGCTCCTGAGCGCCCCCTGCCGC		
				CAGACACAAACCTCCCTGCAGGAACGCTGGGGAAATCAGCGGCAGGGGGCGCTCAGGAGC[CT]ACTGATCAGAGTCAGCCCCGGAGGCAGGTGCAGGTG		
11130	IS	[CT]		GAGGCTGTTTCCTGTCAGGATGTG	ctg21fin5	21
11133	I		A	TCCTGCTACTGACTGTCCCGTCCTGTGAGA		
11133	P	T	A	CGCGCCGAGGTGCTGTGGTCAGGTAGY		
11133	P	C	A	ATGACGTGGCAGACCGCTGTGGTCAGGTY		
11133	T	T	A	AGTACTACCTGACCACAGCACTCACAGGACGGGACAGTCAGTAGCAGGAGC		
11133	T	C	A	AGTACTACCTGACCACAGCGCTCACAGGACGGGACAGTCAGTAGCAGGAGC		
				CTCTCCACCATGGACATACTTTGTTCCACGCTCCTGCTACTGACTGTCCCGTCCTGTGAG[TC]GCTGTGGTCAGGTAGTACTTCAGAAGCAAAAAATCTATT		
11133	IS	[TC]		CTCTCCTTTGTGGGCTTCATC	ctg21fin5	21
11137	I		A	GGAGTGGCTTGCACTCATTGATTGGGATGATGATAAATACTT		
11137	P	A	A	CGCGCCGAGGACAGCACATCTCTGAAGAY		
11137	P	G	A	ATGACGTGGCAGACGCAGCACATCTCTGAAGY		
11137	T	A	A	CTGGTCTTCAGAGATGTGCTGTAGTATTTATCATCATCCCAATCAATGAGTGCAAGCCACTCCAG		
11137	T	G	A	CTGGTCTTCAGAGATGTGCTGCAGTATTTATCATCATCCCAATCAATGAGTGCAAGCCACTCCAG		
				AGCCCCCAGGGAAGGCCCTGGAGTGGCTTGCACTCATTGATTGGGATGATGATAAATACT[AG]CAGCACATCTCTGAAGACCAGGCTCACCATCTCCAAGG		
11137	IS	[AG]		ACACCTCCAAAAACCAGGTGGT	ctg21fin5	21
11138	I		A	CGTGAAGGGCCGATTCACCATCTCCAGAT		
11138	P	C	A	CGCGCCGAGGCACAATTCCAAGAACACGY		
11138	P	G	A	ATGACGTGGCAGACGACAATTCCAAGAACACGY		
11138	T	C	A	ACAGCGTGTTCTTGGAATTGTGTCTGGAGATGGTGAATCGGCCCTTCACGGA		
11138	T	G	A	ACAGCGTGTTCTTGGAATTGTCTCTGGAGATGGTGAATCGGCCCTTCACGGA		
				TATAGCGGTGGTAGCACATACTACGCAGACTCCGTGAAGGGCCGATTCACCATCTCCAGA[CG]ACAATTCCAAGAACACGCTGTATCTTCAAATGAACAGCC		
11138	IS	[CG]		TGAGAGCTGAGGACACGGCCG	ctg21fin5	21
11141	I		S	GGACGGGTTGTAGTAGGTGCTCCCACTGTT		
11141	P	T	S	CGCGCCGAGGAATAGATGTACCCAATCCACY		
11141	P	C	S	ATGACGTGGCAGACGATAGATGTACCCAATCCACY		
11141	T	T	S	TGGAGTGGATTGGGTACATCTATTACAGTGGGAGCACCTACTACAACCCGTCCCT		
11141	T	C	S	TGGAGTGGATTGGGTACATCTATCACAGTGGGAGCACCTACTACAACCCGTCCCT		
				TACTGGAGCTGGATCCGCCAGCCCCCAGGGAAGGGCCTGGAGTGGATTGGGTACATCTAT[TC]ACAGTGGGAGCACCTACTACAACCCGTCCCTCAAGAG		
11141	IS	[TC]		TCGAGTTACCATATCAGTAGACA	ctg15907	6
11142	I		S	GTCTCTGGCACAGTAATACACGGCCGTGTCA		
11142	P	G	S	ATGACGTGGCAGACCGCGGCAGTCACAY		
11142	P	A	S	CGCGCCGAGGTGCGGCAGTCACAY		
11142	T	G	S	GCTCTGTGACTGCCGCGGACACGGCCGTGTATTACTGTGCCAGAGACAC		
11142	T	A	S	GCTCTGTGACTGCCGCAGACACGGCCGTGTATTACTGTGCCAGAGACAC		
				CATATCAGTAGACACGTCCAAGAACCAGTTCTCCCTGAAGCTGAGCTCTGTGACTGCCGC[GA]GACACGGCCGTGTATTACTGTGCCAGAGACACAATGAG		
11142	IS	[GA]		GGGAGGTGAGTGTGAGCCCAGA	ctg45	8
11144	I		S	CCCCCTGCTGGTCCTGAGCAGCAT		
11144	P	G	S	ATGACGTGGCAGACCCTGCGCCGGTY		
11144	P	T	S	CGCGCCGAGGACTGCGCCGGTCY		
11144	T	G	S	AGGGGACCGGCGCAGGTGCTGCTCAGGACCAGCAGGGGGCG		

DO NOT DELETE

FIGURE 129E

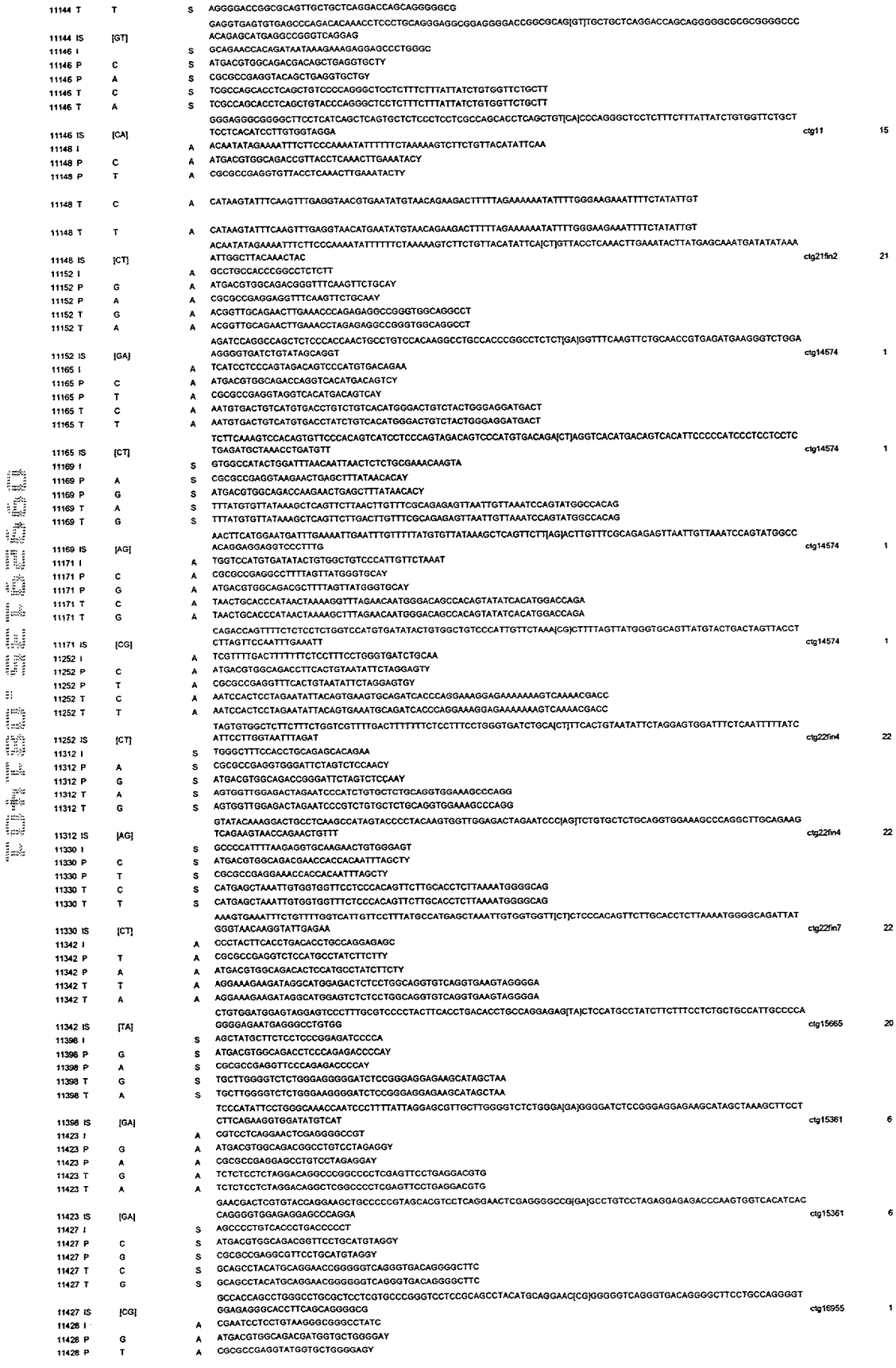

11144 T T S AGGGGACCGGCGCAGTTGCTGCTCAGGACCAGCAGGGGGCG
GAGGTGAGTGTGAGCCCAGACACAAACCTCCCTGCAGGGAGGCGGAGGGGACCGGCGCAG[GT]TGCTGCTCAGGACCAGCAGGGGGCGCGCGGGGCCC
11144 IS [GT] ACAGAGCATGAGGCCGGGTCAGGAG
11146 I S GCAGAACCACAGATAATAAAGAAAGAGGAGCCCTGGGC
11146 P C S ATGACGTGGCAGACGACAGCTGAGGTGCTY
11146 P A S CGCGCCGAGGTACAGCTGAGGTGCTGY
11146 T C S TCGCCAGCACCTCAGCTGTCCCCAGGGCTCCTCTTTCTTTATTATCTGTGGTTCTGCTT
11146 T A S TCGCCAGCACCTCAGCTGTACCCAGGGCTCCTCTTTCTTTATTATCTGTGGTTCTGCTT
GGGAGGGCGGGGCTTCCTCATCAGCTCAGTGCTCTCCCTCCTCGCCAGCACCTCAGCTGT[CA]CCCAGGGCTCCTCTTTCTTTATTATCTGTGGTTCTGCT
11146 IS [CA] TCCTCACATCCTTGTGGTAGGA ctg11 15
11148 I A ACAATATAGAAAATTTCTTCCCAAAATATTTTTTCTAAAAAGTCTTCTGTTACATATTCAA
11148 P C A ATGACGTGGCAGACCGTTACCTCAAACTTGAAATACY
11148 P T A CGCGCCGAGGTGTTACCTCAAACTTGAAATACTY
11148 T C A CATAAGTATTTCAAGTTTGAGGTAACGTGAATATGTAACAGAAGACTTTTTAGAAAAAATATTTTGGGAAGAAATTTTCTATATTGT
11148 T T A CATAAGTATTTCAAGTTTGAGGTAACATGAATATGTAACAGAAGACTTTTTAGAAAAAATATTTTGGGAAGAAATTTTCTATATTGT
ACAATATAGAAAATTTCTTCCCAAAATATTTTTTCTAAAAAGTCTTCTGTTACATATTCA[CT]GTTACCTCAAACTTGAAATACTTATGAGCAAATGATATATAAA
11148 IS [CT] ATTGGCTTACAAACTAC ctg21fin2 21
11152 I A GCCTGCCACCCGGCCTCTCTT
11152 P G A ATGACGTGGCAGACGGGTTTCAAGTTCTGCAY
11152 P A A CGCGCCGAGGAGGTTTCAAGTTCTGCAAY
11152 T G A ACGGTTGCAGAACTTGAAACCCAGAGAGGCCGGGTGGCAGGCCT
11152 T A A ACGGTTGCAGAACTTGAAACCTAGAGAGGCCGGGTGGCAGGCCT
AGATCCAGGCCAGCTCTCCCACCAACTGCCTGTCCACAAGGCCTGCCACCCGGCCTCTCT[GA]GGTTTCAAGTTCTGCAACCGTGAGATGAAGGGTCTGGA
11152 IS [GA] AGGGGTGATCTGTATAGCAGGT ctg14574 1
11165 I A TCATCCTCCCAGTAGACAGTCCCATGTGACAGAA
11165 P C A ATGACGTGGCAGACCAGGTCACATGACAGTCY
11165 P T A CGCGCCGAGGTAGGTCACATGACAGTCAY
11165 T C A AATGTGACTGTCATGTGACCTGTCTGTCACATGGGACTGTCTACTGGGAGGATGACT
11165 T T A AATGTGACTGTCATGTGACCTATCTGTCACATGGGACTGTCTACTGGGAGGATGACT
TCTTCAAAGTCCACAGTGTTCCCACAGTCATCCTCCCAGTAGACAGTCCCATGTGACAGA[CT]AGGTCACATGACAGTCACATTCCCCCATCCCTCCTCCTC
11165 IS [CT] TGAGATGCTAAACCTGATGTT ctg14574 1
11169 I S GTGGCCATACTGGATTTAACAATTAACTCTCTGCGAAACAAGTA
11169 P A S CGCGCCGAGGTAAGAACTGAGCTTTATAACACAY
11169 P G S ATGACGTGGCAGACCAAGAACTGAGCTTTATAACACY
11169 T A S TTTATGTGTTATAAAGCTCAGTTCTTAACTTGTTTCGCAGAGAGTTAATTGTTAAATCCAGTATGGCCACAG
11169 T G S TTTATGTGTTATAAAGCTCAGTTCTTGACTTGTTTCGCAGAGAGTTAATTGTTAAATCCAGTATGGCCACAG
AACTTCATGGAATGATTTGAAAATTGAATTTGTTTTTATGTGTTATAAAGCTCAGTTCTT[AG]ACTTGTTTCGCAGAGAGTTAATTGTTAAATCCAGTATGGCC
11169 IS [AG] ACAGGAGGAGGTCCCTTTG ctg14574 1
11171 I A TGGTCCATGTGATATACTGTGGCTGTCCCATTGTTCTAAAT
11171 P C A CGCGCCGAGGCCTTTTAGTTATGGGTGCAY
11171 P G A ATGACGTGGCAGACGCTTTTAGTTATGGGTGCAY
11171 T C A TAACTGCACCCATAACTAAAAGGTTTAGAACAATGGGACAGCCACAGTATATCACATGGACCAGA
11171 T G A TAACTGCACCCATAACTAAAAGCTTTAGAACAATGGGACAGCCACAGTATATCACATGGACCAGA
CAGACCAGTTTTCTCTCCTCTGGTCCATGTGATATACTGTGGCTGTCCCATTGTTCTAAA[CG]CTTTTAGTTATGGGTGCAGTTATGTACTGACTAGTTACCT
11171 IS [CG] CTTAGTTCCAATTTGAAATT ctg14574 1
11252 I A TCGTTTTGACTTTTTTTCTCCTTTCCTGGGTGATCTGCAA
11252 P C A ATGACGTGGCAGACCTTCACTGTAATATTCTAGGAGTY
11252 P T A CGCGCCGAGGTTTCACTGTAATATTCTAGGAGTGY
11252 T C A AATCCACTCCTAGAATATTACAGTGAAGTGCAGATCACCCAGGAAAGGAGAAAAAAAGTCAAAACGACC
11252 T T A AATCCACTCCTAGAATATTACAGTGAAATGCAGATCACCCAGGAAAGGAGAAAAAAAGTCAAAACGACC
TAGTGTGGCTCTTCTTTCTGGTCGTTTTGACTTTTTTTCTCCTTTCCTGGGTGATCTGCA[CT]TTCACTGTAATATTCTAGGAGTGGATTTCTCAATTTTTATC
11252 IS [CT] ATTCCTTGGTAATTTAGAT ctg22fin4 22
11312 I S TGGGCTTTCCACCTGCAGAGCACAGAA
11312 P A S CGCGCCGAGGTGGGATTCTAGTCTCCAACY
11312 P G S ATGACGTGGCAGACCGGGATTCTAGTCTCCAAY
11312 T A S AGTGGTTGGAGACTAGAATCCCATCTGTGCTCTGCAGGTGGAAAGCCCAGG
11312 T G S AGTGGTTGGAGACTAGAATCCCGTCTGTGCTCTGCAGGTGGAAAGCCCAGG
GTATACAAAGGACTGCCTCAAGCCATAGTACCCCTACAAGTGGTTGGAGACTAGAATCCC[AG]TCTGTGCTCTGCAGGTGGAAAGCCCAGGCTTGCAGAAG
11312 IS [AG] TCAGAAGTAACCAGAACTGTTT ctg22fin4 22
11330 I S GCCCCATTTTAAGAGGTGCAAGAACTGTGGGAGT
11330 P C S ATGACGTGGCAGACGAACCACCACAATTTAGCTY
11330 P T S CGCGCCGAGGAAACCACCACAATTTAGCTY
11330 T C S CATGAGCTAAATTGTGGTGGTTTCTCCCACAGTTCTTGCACCTCTTAAAATGGGGCAG
11330 T T S CATGAGCTAAATTGTGGTGGTTTCTCCCACAGTTCTTGCACCTCTTAAAATGGGGCAG
AAAGTGAAATTTCTGTTTTGGTCATTGTTCCTTTATGCCATGAGCTAAATTGTGGTGGTT[CT]CTCCCACAGTTCTTGCACCTCTTAAAATGGGGCAGATTAT
11330 IS [CT] GGGTAACAAGGTATTGAGAA ctg22fin7 22
11342 I A CCCTACTTCACCTGACACCTGCCAGGAGAGC
11342 P T A CGCGCCGAGGTCTCCATGCCTATCTTCTTY
11342 P A A ATGACGTGGCAGACACTCCATGCCTATCTTCTY
11342 T T A AGGAAAGAAGATAGGCATGGAGACTCTCCTGGCAGGTGTCAGGTGAAGTAGGGGA
11342 T A A AGGAAAGAAGATAGGCATGGAGTCTCTCCTGGCAGGTGTCAGGTGAAGTAGGGGA
CTGTGGATGGAGTAGGAGTCCCTTTGCGTCCCCTACTTCACCTGACACCTGCCAGGAGAG[TA]CTCCATGCCTATCTTCTTTCCTCTGCTGCCATTGCCCCA
11342 IS [TA] GGGGAGAATGAGGGCCTGTGG ctg15665 20
11398 I S AGCTATGCTTCTCCTCCCGGAGATCCCCA
11398 P G S ATGACGTGGCAGACCTCCCAGAGACCCCAY
11398 P A S CGCGCCGAGGTTCCCAGAGACCCCAY
11398 T G S TGCTTGGGGTCTCTGGGAGGGGGATCTCCGGGAGGAGAAGCATAGCTAA
11398 T A S TGCTTGGGGTCTCTGGGAAGGGGATCTCCGGGAGGAGAAGCATAGCTAA
TCCCATATTCCTGGGCAAACCAATCCCTTTTATTAGGAGCGTTGCTTGGGGTCTCTGGGA[GA]GGGGATCTCCGGGAGGAGAAGCATAGCTAAAGCTTCCT
11398 IS [GA] CTTCAGAAGGTGGATATGTCAT ctg15361 6
11423 I A CGTCCTCAGGAACTCGAGGGGCCGT
11423 P G A ATGACGTGGCAGACGGCCTGTCCTAGAGGY
11423 P A A CGCGCCGAGGAGCCTGTCCTAGAGGAY
11423 T G A TCTCTCCTCTAGGACAGGCCCGGCCCCTCGAGTTCCTGAGGACGTG
11423 T A A TCTCTCCTCTAGGACAGGCTCGGCCCCTCGAGTTCCTGAGGACGTG
GAACGACTCGTGTACCAGGAAGCTGCCCCCGTAGCACGTCCTCAGGAACTCGAGGGGCCG[GA]GCCTGTCCTAGAGGAGAGACCCAAGTGGTCACATCAC
11423 IS [GA] CAGGGGTGGAGAGGAGCCCAGGA ctg15361 6
11427 I S AGCCCCTGTCACCCTGACCCCCT
11427 P C S ATGACGTGGCAGACGGTTCCTGCATGTAGGY
11427 P G S CGCGCCGAGGCGTTCCTGCATGTAGGY
11427 T C S GCAGCCTACATGCAGGAACCGGGGGTCAGGGTGACAGGGGCTTC
11427 T G S GCAGCCTACATGCAGGAACGGGGGGTCAGGGTGACAGGGGCTTC
GCCACCAGCCTGGGCCTGCGCTCCTCGTGCCCGGGTCCTCCGCAGCCTACATGCAGGAAC[CG]GGGGGTCAGGGTGACAGGGGCTTCCTGCCAGGGGT
11427 IS [CG] GGAGAGGGCACCTTCAGCAGGGGCG ctg16955 1
11428 I A CGAATCCTCCTGTAAGGGCGGGCCTATC
11428 P G A ATGACGTGGCAGACGATGGTGCTGGGGAY
11428 P T A CGCGCCGAGGTATGGTGCTGGGGAGY

FIGURE 129E

11428 T	G	A	CATTCTCCCCAGCACCATCATAGGCCCGCCCTTACAGGAGGATTCGTT			
11428 T	T	A	CATTCTCCCCAGCACCATAATAGGCCCGCCCTTACAGGAGGATTCGTT			
11428 IS	[GT]		GTTACTAGTGGGGCAAGGAGCGGACTCTACTAACGAATCCTCCTGTAAGGGCGGGCCTAT[GT]ATGGTGCTGGGGAGAATGGCTGCATTGTTATGGTCAAA ATCCAGTTGGCAAATGCCACAT	ctg16128	1	
11429 I		A	CCAGAGAAAGAGTTTCCACACCAGCCATTGTTTTCCA			
11429 P	T	A	CGCGCCGAGGTCTGGTAATGTCAGCCTY			
11429 P	C	A	ATGACGTGGCAGACCCTGGTAATGTCAGCCTY			
11429 T	T	A	GATGAGGCTGACATTACCAGAGGAAAACAATGGCTGGTGTGGAAACTCTTTCTCTGGCT			
11429 T	C	A	GATGAGGCTGACATTACCAGGGGAAAACAATGGCTGGTGTGGAAACTCTTTCTCTGGCT			
11429 IS	[TC]		CACCAGGCTCTTGAATCCTCCCAGCCAGAGAAAGAGTTTCCACACCAGCCATTGTTTTCC[TC]CTGGTAATGTCAGCCTCATCTGTTGTTCCTAGGCTTACTT GATATGTTTGTAAATGACAA	ctg16128	1	
11436 I		S	AGTATTATATTTTTCCATTTGAGGTATACAAAGTAGTTAACTTTTCTTAGATATTTAGAGA			
11436 P	A	S	CGCGCCGAGGTGCCCACATTTTCCTTGY			
11436 P	G	S	ATGACGTGGCAGACCGCCCACATTTTCCTTY			
11436 T	A	S	ATCACAAGGAAAATGTGGGCACTCTAAATATCTAAGAAAAGTTAACTACTTTGTATACCTCAAATGGAAAAATATAATACT			
11436 T	G	S	ATCACAAGGAAAATGTGGGCGCTCTAAATATCTAAGAAAAGTTAACTACTTTGTATACCTCAAATGGAAAAATATAATACT			
11436 IS	[AG]		GTCCCTCTCTAGAATCCACCCATAAGGAGATCATCATGTTATCACAAGGAAAATGTGGGC[AG]CTCTAAATATCTAAGAAAAGTTAACTACTTTGTATACCTCA AATGGAAAAATATAATACT	ctg13446	1	
11439 I		S	CTGTCACATAGTGCTGTGCGGTCATCTGA			
11439 P	G	S	ATGACGTGGCAGACCCGCTCCACATCAGTY			
11439 P	A	S	CGCGCCGAGGTCGCTCCACATCAGTY			
11439 T	G	S	CTTCACTGATGTGGAGCGGCAGATGACCGCACAGCACTATGTGACAGAA			
11439 T	A	S	CTTCACTGATGTGGAGCGACAGATGACCGCACAGCACTATGTGACAGAA			
11439 IS	[GA]		TGTTGGGAAAGACTATAAGGAGCAGAAGGGGCTCTGGCACCACTTCACTGATGTGGAGCG[GA]CAGATGACCGCACAGCACTATGTGACAGAATTTAACAA GAGACTCTATGAACAAAACATT	ctg22fin4	22	
11441 I		A	CTAATTGTTAGAAAGTTCTTAGACTTAGCCCAAATCTATCTTTATCTAACTTCTT			
11441 P	A	A	CGCGCCGAGGATCCATGGATTACAGCTCTY			
11441 P	G	A	ATGACGTGGCAGACGTCCATGGATTACAGCTCY			
11441 T	A	A	AGGGAGAGCTGTAATCCATGGATAGAAGTTAGATAAAGATAGATTTGGGCTAAGTCTAAGAACTTTCTAACAATTAGGA			
11441 T	G	A	AGGGAGAGCTGTAATCCATGGACAGAAGTTAGATAAAGATAGATTTGGGCTAAGTCTAAGAACTTTCTAACAATTAGGA			
11441 IS	[AG]		GTAATCCTAATTGTTAGAAAGTTCTTAGACTTAGCCCAAATCTATCTTTATCTAACTTCT[AG]TCCATGGATTACAGCTCTCCCTCCTGGGACCATGAAGACCA GTCTCTCTTCACTAACATA	ctg13446	1	
11446 I		S	CGGCCCCTGACAGGAAGAGGTGTGAT			
11446 P	T	S	CGCGCCGAGGAGGCCCTGTGATTGTY			
11446 P	G	S	ATGACGTGGCAGACCGGCCCTGTGATTGTY			
11446 T	T	S	CCTGACAATCACAGGGCCTTCACACCTCTTCCTGTCAGGGGCCGAG			
11446 T	G	S	CCTGACAATCACAGGGCCGTCACACCTCTTCCTGTCAGGGGCCGAG			
11446 IS	[TG]		CAGTTGTGTGAAGATGGAGTCTCCCGGAGGAAATGACAATTACCTGACAATCACAGGGCC[TG]TCACACCTCTTCCTGTCAGGGGCCGAGACATTCCATAC ACCAAGCTTAGGTGATGAAGAA	ctg13960	1	
11449 I		A	CGGAAACCCCTCCGAGAATGGCCCA			
11449 P	T	A	CGCGCCGAGGTGGTTCCCTGGCAGY			
11449 P	C	A	ATGACGTGGCAGACCGGTTCCCTGGCAY			
11449 T	T	A	AGCCCTGCCAGGGAACCAGGGCCATTCTCGGAGGGGTTTCCGCC			
11449 T	C	A	AGCCCTGCCAGGGAACCGGGGCCATTCTCGGAGGGGTTTCCGCC			
11449 IS	[TC]		CACAGAAGGACACGGGCGGAAACCCCTCCGAGAATGGCCC[TC]GGTTCCCTGGCAGGGCTGGGGGCCTATAAAGTGCACATCCATCCTGATGCCAGTCAC CAG	ctg13980	1	
11452 I		S	GCTGTGAATAGGTGTCAAGGATTTTTTGGAAATCCCCTTGT			
11452 P	G	S	ATGACGTGGCAGACCCCATGCAAGATAAGTTTATCY			
11452 P	T	S	CGCGCCGAGGACCATGCAAGATAAGTTTATCCY			
11452 T	G	S	GGTTGGATAAACTTATCTTGCATGGGCAAGGGGATTTCCAAAAAATCCTTGACACCTATTCACAGCAC			
11452 T	T	S	GGTTGGATAAACTTATCTTGCATGGTCAAGGGGATTTCCAAAAAATCCTTGACACCTATTCACAGCAC			
11452 IS	[GT]		TGACAGATCTTATGTTCCCGAGAGTTTCGAGTGCAGGTTGGATAAACTTATCTTGCATGG[GT]CAAGGGGATTTCCAAAAAATCCTTGACACCTATTCACAGC ACCATACTTCGGTGTGTGAA	ctg13960	1	
11476 I		S	GCTGAGGTGCTTCTTTCCCAAGGGCCTA			
11476 P	G	S	ATGACGTGGCAGACCAACTATGCAGCAGGGY			
11476 P	A	S	CGCGCCGAGGTAACTATGCAGCAGGGCY			
11476 T	G	S	AGAAGCCCTGCTGCATAGTTGAGGCCCTTGGGAAAGAAGCACCTCAGCTA			
11476 T	A	S	AGAAGCCCTGCTGCATAGTTAAGGCCCTTGGGAAAGAAGCACCTCAGCTA			
11476 IS	[GA]		CCATGCCCAGAAACTTAAACATTTGTGTGGACTCCCTGTAAGAAGCCCTGCTGCATAGTT[GA]AGGCCCTTGGGAAAGAAGCACCTCAGCTATTCAGCAACG GGGCTTCTTTACGAGGGCACC	ctg13980	1	
11479 I		A	AGTCAATGGATTGCACACTGTTTATAAGAAAGGAATTGAGGCTGAAATAAGC			
11479 P	T	A	CGCGCCGAGGTAGTACCACATTATACCTGGTY			
11479 P	G	A	ATGACGTGGCAGACGAGTACCACATTATACCTGGY			
11479 T	T	A	AAACACCAGGTATAATGTGGTACTACTTATTTCAGCCTCAATTCCTTTCTTATAAACAGTGTGCAATCCATTGACTCA			
11479 T	G	A	AAACACCAGGTATAATGTGGTACTCCTTATTTCAGCCTCAATTCCTTTCTTATAAACAGTGTGCAATCCATTGACTCA			
11479 IS	[TG]		GTAAAAATGAGTCAATGGATTGCACACTGTTTATAAGAAAGGAATTGAGGCTGAAATAAG[TG]AGTACCACATTATACCTGGTGTTTGGTTTTTATGCTAATCT GGAACATGGGACCCGGGGA	ctg13960	1	
11482 I		A	ACTGTTGTCAACCAGTTGCTGTCCAAAATTGATGGCT			
11482 P	G	A	ATGACGTGGCAGACGTGGAGCAGCTAAACAAY			
11482 P	A	A	CGCGCCGAGGATGGAGCAGCTAAACAACY			
11482 T	G	A	GGATGTTGTTTAGCTGCTCCACGCCATCAATTTTGGACAGCAACTGGTTGACAACAGTGT			
11482 T	A	A	GGATGTTGTTTAGCTGCTCCATGCCATCAATTTTGGACAGCAACTGGTTGACAACAGTGT			
11482 IS	[GA]		GCTGGTAGCACGGGAGTTCATGACACTGTTGTCAACCAGTTGCTGTCCAAAATTGATGGC[GA]TGGAGCAGCTAAACAACATCCTAGTCATTGGTATGTTTA CTTTTAAAAAAGTACTATTC	ctg13960	1	
11488 I		A	TCAAAAAGTCCAAACAGGTATGGAGTTAAAAAAAAATGCCTCT			
11488 P	G	A	ATGACGTGGCAGACGAAATGAATGGGCATTAAACAY			
11488 P	A	A	CGCGCCGAGGAAAATGAATGGGCATTAAACAY			
11488 T	G	A	TATGTGTTTAATGCCCATTCATTTCGAGGCATTTTTTTTTAACTCCATACCTGTTTGGACTTTTTGATA			
11488 T	A	A	TATGTGTTTAATGCCCATTCATTTTGAGGCATTTTTTTTTAACTCCATACCTGTTTGGACTTTTTGATA			
11488 IS	[GA]		CCTAATGAATCTACATTATCAAAAAGTCCAAACAGGTATGGAGTTAAAAAAAAATGCCTC[GA]AAATGAATGGGCATTAAACACATAAGAATTATTTCCAGATG AACAGGCTTATCAGTAAGC	ctg13516	6	
11496 I		S	GGAATAATAATGCATCCCTTAGCATTTTTGAAAATAAAATACAGTGCTT			
11496 P	T	S	CGCGCCGAGGACATATCAGGCACCCAY			
11496 P	C	S	ATGACGTGGCAGACGCATATCAGGCACCCY			
11496 T	T	S	GTCCTGGGTGCCTGATATGTAGCACTGTATTTTATTTTCAAAAATGCTAAGGGATGCATTATTATTCCTA			
11496 T	C	S	GTCCTGGGTGCCTGATATGCAGCACTGTATTTTATTTTCAAAAATGCTAAGGGATGCATTATTATTCCTA			
11496 IS	[TC]		AAGCTTCCTTTGATCAAACAAAAACCTATGTGCTGGGAACTGTCCTGGGTGCCTGATATG[TC]AGCACTGTATTTTATTTTCAAAAATGCTAAGGGATGCATT ATTATTCCTATTTCACAAGT	ctg16537	20	
11506 I		A	GACCCCCTCCAAGGCAAACCCTCATAACTGA			
11506 P	C	A	ATGACGTGGCAGACCACATGTTGGAAGGGCY			
11506 P	T	A	CGCGCCGAGGTACATGTTGGAAGGGCAY			
11506 T	C	A	GCTGTGCCCTTCCAACATGTGCAGTTATGAGGGTTTGCCTTGGAGGGGGTCTG			
11506 T	T	A	GCTGTGCCCTTCCAACATGTACAGTTATGAGGGTTTGCCTTGGAGGGGGTCTG			
11506 IS	[CT]		TGGCTTCCTGGGGGAGCAGCAGCTGCAGCAGACCCCCTCCAAGGCAAACCCTCATAACTG[CT]ACATGTTGGAAGGGCACAGCCAAGACAGGGAGGGCTG CTGTGGCTCTGCCGGGTCTTAGC	ctg15665	20	
11507 I		A	GAGGCTACTGGCCCCCTGGCCC			
11507 P	A	A	CGCGCCGAGGATGTTATACCTAAGAAATTCGTCAY			
11507 P	T	A	ATGACGTGGCAGACTTGTTATACCTAAGAAATTCGTCAY			
11507 T	A	A	CAAGTGACGAATTTCTTAGGTATAACATGGCCAGGGGGCCAGTAGCCTCAG			

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FIGURE 129E

11507 T	T	A	CAAGTGACGAATTTCTTAGGTATAACAAGGCCAGGGGGCCAGTAGCCTCAG			
11507 IS	[AT]		GACAAGATCAACATGTGAGAAGTCAAAAGAAGGCAATCTGAGGCTACTGGCCCCCTGGCC[AT]TGTTATACCTAAGAAATTCGTCACTTGAGCATCCCTGGG TAGGAGGCTACTTTGTGTTGT	ctg15907	6	
11513 I		A	CCTGTTTGCCTTCCCTAAAAGAGAAGAATCTTCTAGAGTCCCT			
11513 P	G	A	ATGACGTGGCAGACGTGTCCTCCAATTTATACACCY			
11513 P	A	A	CGCGCCGAGGATGTCCTCCAATTTATACACCY			
11513 T	G	A	TTGGGGTGTATAAATTGGAGGACACGGGACTCTAGAAGATTCTTCTCTTTTAGGGAAGGCAAACAGGAT			
11513 T	A	A	TTGGGGTGTATAAATTGGAGGACATGGGACTCTAGAAGATTCTTCTCTTTTAGGGAAGGCAAACAGGAT			
11513 IS	[GA]		TTGGCATCTAATTTGCATCCTGTTTGCCTTCCCTAAAAGAGAAGAATCTTCTAGAGTCCC[GA]TGTCCTCCAATTTATACACCCCAAACATCTCTAATCAAGAA CCATGAACACAAGTGAAAA	ctg15907	6	
11547 I		S	TGGCTTTGTTAAAGGTCTTGACTCCTAGGGACAACCA			
11547 P	G	S	ATGACGTGGCAGACCCATCCAATTACTGATCAATGY			
11547 P	A	S	CGCGCCGAGGTCATCCAATTACTGATCAATGTY			
11547 T	G	S	ACCCACATTGATCAGTAATTGGATGGGGTTGTCCCTAGGAGTCAAGACCTTTAACAAAGCCACT			
11547 T	A	S	ACCCACATTGATCAGTAATTGGATGAGGTTGTCCCTAGGAGTCAAGACCTTTAACAAAGCCACT			
11547 IS	[GA]		TTCCCAGCTAAAGCAAGAGGTCCTGGCCTTTATATACCCACATTGATCAGTAATTGGATG[GA]GGTTGTCCCTAGGAGTCAAGACCTTTAACAAAGCCACTG TCTTCAGTCAAGGCAATCTCT	MULTIPLE	22	
11550 I		S	CCCTGGCCTCTGTAGGGGGTCTTCCTC			
11550 P	C	S	ATGACGTGGCAGACGCTCCCCAGCCTCY			
11550 P	A	S	CGCGCCGAGGTCTCCCCAGCCTCAY			
11550 T	C	S	CAGGTGAGGCTGGGGAGCAGGAAGACCCCCTACAGAGGCCAGGGCA			
11550 T	A	S	CAGGTGAGGCTGGGGAGAAGGAAGACCCCCTACAGAGGCCAGGGCA			
11550 IS	[CA]		GTTGTCCTCGTCCTCCTTGCTGTGGCGCTTCAAGCAACTGAGGCAGGTGAGGCTGGGGAG[CA]AGGAAGACCCCCTACAGAGGCCAGGGCAGACGGTGG GGTGTCTTCCTCATGTCTTGGACA	ctg22fin4	22	
11585 I		A	AAAAAGTGTATTATTTCCAGCCATGGGAAAGAAAAGGACT			
11585 P	G	A	ATGACGTGGCAGACGGTAGAGTTCATGTTCAGAATY			
11585 P	A	A	CGCGCCGAGGAGTAGAGTTCATGTTCAGAATGY			
11585 T	G	A	CTTTCATTCTGAACATGAACTCTACCGTCCTTTTCTTTCCCATGGCTGGAAATAATACACTTTTTTT			
11585 T	A	A	CTTTCATTCTGAACATGAACTCTACTGTCCTTTTCTTTCCCATGGCTGGAAATAATACACTTTTTTT			
11585 IS	[GA]		TTTTAAAAAAAAAAAAAAAAAAAAAAAGTGTATTATTTCCAGCCATGGGAAAGAAAAGGAC[GA]GTAGAGTTCATGTTCAGAATGAAAGAGTAAACATCACAAGT TAGTCTGACCTCAGCTGTC	ctg22fin4	22	
11600 I		S	CTGGAATTAGAGGGCTGGAGCTGCCCAATCT			
11600 P	G	S	ATGACGTGGCAGACCTCTTGCCCTTCCTGAY			
11600 P	T	S	CGCGCCGAGGATCTTGCCCTTCCTGAY			
11600 T	G	S	CTCCTCAGGAAGGGCAAGAGGATTGGGCAGCTCCAGCCCTCTAATTCCAGGG			
11600 T	T	S	CTCCTCAGGAAGGGCAAGATGATTGGGCAGCTCCAGCCCTCTAATTCCAGGG			
11600 IS	[GT]		TGGACACCCAGAAGCGCTCACTCCAAGGTGGAGACCTCTGCCTCCTCAGGAAGGGCAAGA[GT]GATTGGGCAGCTCCAGCCCTCTAATTCCAGGGTCTCC CCCAGGTGCTGTGGACACTGGGG	ctg15907	6	
11602 I		S	GCTCTCTCCACCTCCTAGCATTACTTTTAAACTTCTGGAACTA			
11602 P	A	S	CGCGCCGAGGTGCCTACCACTGCCY			
11602 P	G	S	ATGACGTGGCAGACCGCCTACCACTGCCY			
11602 T	A	S	CTTGGGCAGTGGTAGGCAAGTTCCAGAAGTTTAAAAGTAATGCTAGGAGGTGGAGAGAGCAT			
11602 T	G	S	CTTGGGCAGTGGTAGGCGAGTTCCAGAAGTTTAAAAGTAATGCTAGGAGGTGGAGAGAGCAT			
11602 IS	[AG]		TCCTTCCCCTTGGAAACTTTGGTTGGCTCGGCTTCAATCGTGACTTGGGCAGTGGTAGGC[AG]AGTTCCAGAAGTTTAAAAGTAATGCTAGGAGGTGGAGA GAGCATCAGTCAATATTGAGAC	ctg13980	1	
11688 I		A	CCCACCTCGGCCTCCCACGGA			
11688 P	T	A	CGCGCCGAGGTGCTGGGATTACAGGTY			
11688 P	C	A	ATGACGTGGCAGACCGCTGGGATTACAGGTY			
11688 T	T	A	TCACACCTGTAATCCCAGCACCGTGGGAGGCCGAGGTGGGAG			
11688 T	C	A	TCACACCTGTAATCCCAGCGCCGTGGGAGGCCGAGGTGGGAG			
11688 IS	[TC]		CGGCCAGGCTGGTCTCGAACTCCTGACCTCCAGTGATCCTCCCACCTCGGCCTCCCACGG[TC]GCTGGGATTACAGGTGTGAGCCACCGCGCCTGGCCCC TAGTTGTAATTATTCACAGAAAT	MULTIPLE	MULTIPLE	
11696 I		A	GACAGGACGATGAGGTTGACCAGCGTCTCA			
11696 P	T	A	CGCGCCGAGGTGGGTAGCCACTATCCY			
11696 P	C	A	ATGACGTGGCAGACCGGGTAGCCACTATCCY			
11696 T	T	A	TCCAGGATAGTGGCTACCCAGAGACGCTGGTCAACCTCATCGTCCTGTCCC			
11696 T	C	A	TCCAGGATAGTGGCTACCCGGAGACGCTGGTCAACCTCATCGTCCTGTCCC			
11696 IS	[TC]		GCTTACCTCAGGGGGCTTGCCCAGGTGCTGGGACAGGACGATGAGGTTGACCAGCGTCTC[TC]GGGTAGCCACTATCCTGGAGACACAGGCAGACACGG GGAGGCAGGGTCAGCCACTCCAGC	ctg13446	1	
11748 I		S	AGGAGATCTGAAAATGTCCCAGGAATCCATTATGGATCTAGAAAATGAT			
11748 P	G	S	ATGACGTGGCAGACCAAGCAGCAAATAGAAGAGAY			
11748 P	T	S	CGCGCCGAGGAAAGCAGCAAATAGAAGAGAY			
11748 T	G	S	AATTTCTCTTCTATTTGCTGCTTGTCATTTTCTAGATCCATAATGGATTCCTGGGACATTTTCAGATCTCCTTC			
11748 T	T	S	AATTTCTCTTCTATTTGCTGCTTTTCATTTTCTAGATCCATAATGGATTCCTGGGACATTTTCAGATCTCCTTC			
11748 IS	[GT]		GAGACACAGAGGTGGTAAAAGAAATATCTACTTTTTCAATTTCTCTTCTATTTGCTGCTT[GT]TCATTTTCTAGATCCATAATGGATTCCTGGGACATTTTCAG ATCTCCTTCCAGCTTCCTC			
11764 I		A	CCCCAGGTAGCGAGGGCTCAGATAGATATTCGAA			
11764 P	T	A	CGCGCCGAGGTACGAAGTAACGGGTGTAY			
11764 P	C	A	ATGACGTGGCAGACCACGAAGTAACGGGTGY			
11764 T	T	A	CTACTACACCCGTTACTTCGTATCGAATATCTATCTGAGCCCTCGCTACCTGGGGAA			
11764 T	C	A	CTACTACACCCGTTACTTCGTGTCGAATATCTATCTGAGCCCTCGCTACCTGGGGAA			
11764 IS	[TC]		CACCAAGGCAATGTCATAGGGTGAATTCCCCAGGTAGCGAGGGCTCAGATAGATATTCGA[TC]ACGAAGTAACGGGTGTAGTAGGCCTGCAGGCTCCAGAA GGATGGCATGGAAGTCAGCTGG	ctg13446	1	PRSS21
11795 I		A	GGGCAACAGAAATGGGCTTCTATTTGTTTCGTTTACATGCT			
11795 P	A	A	CGCGCCGAGGATCCCCAGTTGCCTTY			
11795 P	C	A	ATGACGTGGCAGACCTCCCCAGTTGCCTTY			
11795 T	A	A	CTAGAAGGCAACTGGGGATGCATGTAAACGAAACAAATAGAAGCCCATTTCTGTTGCCCTC			
11795 T	C	A	CTAGAAGGCAACTGGGGAGGCATGTAAACGAAACAAATAGAAGCCCATTTCTGTTGCCCTC			
11795 IS	[AC]		GATAACATTTATCCTTTGGAGGGCAACAGAAATGGGCTTCTATTTGTTTCGTTTACATGC[AC]TCCCCAGTTGCCTTCTAGTTGCTTCTTCTTCCCTATGTCTA AGAGATCAATTTGAATTAG	ctg14250	1	
11804 I		A	CACCTAGCCCTGGGGTTTTCTACCCCATAACT			
11804 P	A	A	CGCGCCGAGGAGTCCAGGAAAGGGTCY			
11804 P	C	A	ATGACGTGGCAGACCGTCCAGGAAAGGGTY			
11804 T	A	A	GTCTGACCCTTTCCTGGACTGTTATGGGGTAGAAAACCCCAGGGCTAGGTGGT			
11804 T	C	A	GTCTGACCCTTTCCTGGACGGTTATGGGGTAGAAAACCCCAGGGCTAGGTGGT			
11804 IS	[AC]		GCCCTGTCTCTGCAGAGCTCCTGCCACACCACCTAGCCCTGGGGTTTTCTACCCCATAAC[AC]GTCCAGGAAAGGGTCAGACTGAGGCAGCCACGGTTTTG AGGCAGAGCCGGGCTCCGCTTG	ctg14250	1	
11818 I		S	GGTTGGAATCAATGCTAGCTGGACTTCTGGCTGC			
11818 P	A	S	CGCGCCGAGGTATTTCCTGAATGTAGTGAAGATY			
11818 P	C	S	ATGACGTGGCAGACGATTTCCTGAATGTAGTGAAGAY			
11818 T	A	S	TAAGATCTTCACTACATTCAGGAAATACAGCCAGAAGTCCAGCTAGCATTGATTCCAACCCT			
11818 T	C	S	TAAGATCTTCACTACATTCAGGAAATCCAGCCAGAAGTCCAGCTAGCATTGATTCCAACCCT			
11818 IS	[AC]		ACCAATTAAATACCAACAGCAACTTAACTACTGATAAGATCTTCACTACATTCAGGAAAT[AC]CAGCCAGAAGTCCAGCTAGCATTGATTCCAACCCTCCTTCA TCAATTTTAATTTATTCAG	ctg15665	20	
11836 I		A	GGTGACTGCAAGAGGAGCAAAACTATTAGAACTTCCTACACAA			
11836 P	C	A	ATGACGTGGCAGACCGAAGAGCAGTCCCAY			
11836 P	T	A	CGCGCCGAGGTGAAGAGCAGTCCCAAY			
11836 T	C	A	ATGCTTGGGACTGCTCTTCGTGTGTAGGAAGTTCTAATAGTTTTGCTCCTCTTGCAGTCACCAC			
11836 T	T	A	ATGCTTGGGACTGCTCTTCATGTGTAGGAAGTTCTAATAGTTTTGCTCCTCTTGCAGTCACCAC			

FIGURE 129E

				CAGCAAATGCAAGCAGGTGGTGACTGCAAGAGGAGCAAAACTATTAGAACTTCCTACACA[CT]GAAGAGCAGTCCCAAGCATCCAGGGAAAGATGAAAAAG		
11836	IS	[CT]		CTGTTTGGTTTGGAGACAGACT	ctg22fin6	22
11851	I		A	GGCTCCTCTCTTCCCCTTCCACAGGGTACT		
11851	P	G	A	ATGACGTGGCAGACGGCAGCTGGAGAGAAY		
11851	P	A	A	CGCGCCGAGGAGCAGCTGGAGAGAACY		
11851	T	G	A	GCCAGTTCTCTCCAGCTGCCGTACCCTGTGGAAGGGGAAGAGAGGAGCCCT		
11851	T	A	A	GCCAGTTCTCTCCAGCTGCTGTACCCTGTGGAAGGGGAAGAGAGGAGCCCT		
				GTATGAGGTTTCCAGGTTACGCTGACCTGAGGGCTCCTCTCTTCCCCTTCCACAGGGTAC[GA]GCAGCTGGAGAGAACTGGCCAAGGCTCTGGCCAGCAG		
11851	IS	[GA]		GAACATTCCAGCTGTGGATCCAC	ctg22fin6	22
11875	I		A	CTGTGACCACCAATCTCAACCTCTCTAAAGACTGAGCT		
11875	P	G	A	ATGACGTGGCAGACGTAGGGTTCCCAGTTCCY		
11875	P	A	A	CGCGCCGAGGATAGGGTTCCCAGTTCCY		
11875	T	G	A	CCTGGGAACTGGGAACCCTACGCTCAGTCTTTAGAGAGGTTGAGATTGGTGGTCACAGCC		
11875	T	A	A	CCTGGGAACTGGGAACCCTATGCTCAGTCTTTAGAGAGGTTGAGATTGGTGGTCACAGCC		
				ATTTTCTGTCTGCAAGTCTGGGGCTGTGACCACCAATCTCAACCTCTCTAAAGACTGAGC[GA]TAGGGTTCCCAGTTCCCAGGGGGAGGCCCTCATCCCCC		
11875	IS	[GA]		CACCTGCCAAAACCTCAATAGG	ctg22fin4	22
11880	I		S	GTCGGCCACATGGGGACCGGGT		
11880	P	G	S	ATGACGTGGCAGACCGCAACTGTGCCAAGY		
11880	P	T	S	CGCGCCGAGGAGCAACTGTGCCAAGY		
11880	T	G	S	GGTGCTTGGCACAGTTGCGCCCGGTCCCCATGTGGCCGACAC		
11880	T	T	S	GGTGCTTGGCACAGTTGCTCCCGGTCCCCATGTGGCCGACAC		
				ACAACAGGACAGACTGGCTCAGGCCCCAGGCGCGCCCCTGGAGGTGCTTGGCACAGTTGC[GT]CCCGGTCCCCATGTGGCCGACACTCTCAGACCAGGG		
11880	IS	[GT]		CTCTGCGTGTCCCACCTACGGCAG	ctg22fin4	22
11886	I		A	GCATCACCATAGTCAATGCTTAGAGCCTCAAAAGGTTGTAATCTT		
11886	P	G	A	ATGACGTGGCAGACGGCTCTGGGGAGGY		
11886	P	A	A	CGCGCCGAGGAGCTCTGGGGAGGAY		
11886	T	G	A	TCACTCCTCCCCAGAGCCAGATTACAACCTTTTGAGGCTCTAAGCATTGACTATGGTGATGCCC		
11886	T	A	A	TCACTCCTCCCCAGAGCTAGATTACAACCTTTTGAGGCTCTAAGCATTGACTATGGTGATGCCC		
				GGGACAGTGACTGGGGGCATCACCATAGTCAATGCTTAGAGCCTCAAAAGGTTGTAATCT[GA]GCTCTGGGGAGGAGTGAGGCTGAGCTGAGTCTCCCAC		
11886	IS	[GA]		GGTCTTTAGAATGTGTCCTGGCA	ctg22fin4	22
11889	I		S	CTGACCCCCTTTTCCTGCCTTTTTTGTGTCATCAT		
11889	P	C	S	ATGACGTGGCAGACGGAGTCCCACCATCTGY		
11889	P	T	S	CGCGCCGAGGAGAGTCCCACCATCTGY		
11889	T	C	S	ATGTCAGATGGTGGGACTCCTGATGACACAAAAAAGGCAGGAAAAGGGGGTCAGGG		
11889	T	T	S	ATGTCAGATGGTGGGACTCTTGATGACACAAAAAAGGCAGGAAAAGGGGGTCAGGG		
				AGCTACATTCTTCTAGGTGGGGAAGACAGACAGTATATTTCATGTCAGATGGTGGGACTC[CT]TGATGACACAAAAAAGGCAGGAAAAGGGGGTCAGGGAG		
11889	IS	[CT]		GGTGGGAGGCTGCAGTGTCAGA	ctg22fin4	22
11896	I		A	GGATGGATCGCAAAAATGGCCACACTGCTTT		
11896	P	G	A	ATGACGTGGCAGACGAACCCTCTGTATCCATGY		
11896	P	C	A	CGCGCCGAGGCAACCCTCTGTATCCATGY		
11896	T	G	A	TCTGCATGGATACAGAGGGTTCAAGCAGTGTGGCCATTTTTGCGATCCATCCCA		
11896	T	C	A	TCTGCATGGATACAGAGGGTTGAAGCAGTGTGGCCATTTTTGCGATCCATCCCA		
				TGCACAGAAAGGGGCCAGGTTATGGTGGTGGGATGGATCGCAAAAATGGCCACACTGCTT[GC]AACCCTCTGTATCCATGCAGAGTGACTTTACAGACTCC		
11896	IS	[GC]		CATTAAGAAATAGAGTTTATTT	ctg22fin4	22
11898	I		S	GGCCTGAAGCCCACCACATCTGGATGAAATCA		
11898	P	A	S	CGCGCCGAGGTTCATGCCAAGCCCTY		
11898	P	G	S	ATGACGTGGCAGACCTCATGCCAAGCCCTY		
11898	T	A	S	GCTTAGGGCTTGGCATGAAGATTTCATCCAGATGTGGTGGGCTTCAGGCCCC		
11898	T	G	S	GCTTAGGGCTTGGCATGAGGATTTCATCCAGATGTGGTGGGCTTCAGGCCCC		
				CTGCTTTCTCTCCTAAATGACTTGTCTACTGTTAGACTGATGGCTTAGGGCTTGGCATGA[AG]GATTTCATCCAGATGTGGTGGGCTTCAGGCCCCAGCACA		
11898	IS	[AG]		TTGCTTCCGTCTTCAAGTGGT	ctg22fin10	22
11901	I		A	CCTTGGCATTGCATTGAAAATGAAAGCTTGCTGTTTTGAAT		
11901	P	A	A	CGCGCCGAGGACAATTCTGCTTCATAATCCTY		
11901	P	G	A	ATGACGTGGCAGACGCAATTCTGCTTCATAATCCY		
11901	T	A	A	AATCAGGATTATGAAGCAGAATTGTTTCAAAACAGCAAGCTTTCATTTTCAATGCAATGCCAAGGTC		
11901	T	G	A	AATCAGGATTATGAAGCAGAATTGCTTCAAAACAGCAAGCTTTCATTTTCAATGCAATGCCAAGGTC		
				TCTTACAAATTAGTGAATGACCTTGGCATTGCATTGAAAATGAAAGCTTGCTGTTTTGAA[AG]CAATTCTGCTTCATAATCCTGATTATGAATTTATTTTTGTTT		
11901	IS	[AG]		TCTCCAAAAATCATGTTT	ctg15907	6
11922	I		A	AGCTGAAATCAGTTTTCTGCACCACCCTTGATTAGCTATTTA		
11922	P	T	A	CGCGCCGAGGTCCAGTTCTAAGAGCCCY		
11922	P	C	A	ATGACGTGGCAGACCCCAGTTCTAAGAGCCCY		
11922	T	T	A	CTTCGGGCTCTTAGAACTGGAAAATAGCTAATCAAGGGTGGTGCAGAAAACTGATTTCAGCTGT		
11922	T	C	A	CTTCGGGCTCTTAGAACTGGGAAATAGCTAATCAAGGGTGGTGCAGAAAACTGATTTCAGCTGT		
				TGTAAACTATAAAGGAAACAGCTGAAATCAGTTTTCTGCACCACCCTTGATTAGCTATTT[TC]CCAGTTCTAAGAGCCCGAAGCAAAAAGAACTACAACAGCT		
11922	IS	[TC]		ATAAACAATAGATGCTTTGA	ctg15907	6
11923	I		A	GGGGGCCCGATGCATCTCTTCAATACAGAT		
11923	P	A	A	CGCGCCGAGGACCTCTGCCCTCAGY		
11923	P	C	A	ATGACGTGGCAGACCCCTCTGCCCTCAGY		
11923	T	A	A	CACCCTGAGGGCAGAGGTTCTGTATTGAAGAGATGCATCGGGCCCCCTC		
11923	T	C	A	CACCCTGAGGGCAGAGGGTCTGTATTGAAGAGATGCATCGGGCCCCCTC		
				AAACGGCTTGGCAGTGATGCTCTGTCTTAGAGGGGGCCCGATGCATCTCTTCAATACAGA[AC]CCTCTGCCCTCAGGGTGTTTGCTAGTTAACCACTGAGC		
11923	IS	[AC]		TTGTTTGGATTTAAACCAAAGA	ctg15907	6
11935	I		S	AGAGAAAATCAGCTGAAAGCAGGGTCAGATCATGTAGGAAC		
11935	P	A	S	CGCGCCGAGGTTTTAGGAGATGGTAAAAACGTY		
11935	P	T	S	ATGACGTGGCAGACATTTAGGAGATGGTAAAAACGTY		
11935	T	A	S	CACAACGTTTTTACCATCTCCTAAAATTCCTACATGATCTGACCCTGCTTTCAGCTGATTTTCTCTCC		
11935	T	T	S	CACAACGTTTTTACCATCTCCTAAATTTCCTACATGATCTGACCCTGCTTTCAGCTGATTTTCTCTCC		
				TCCTCTAAAAACCATCCTTTACACTTGGAATAAAACACAACGTTTTTACCATCTCCTAAA[AT]TTCCTACATGATCTGACCCTGCTTTCAGCTGATTTTCTCTCC		
11935	IS	[AT]		CTTTTTCCTGCTTTCTGT	ctg17573	X
11939	I		A	TGGTACCAATAGGAAAGAAGACTCCAGCTAATGAAAAAGTAGAGGTATTGC		
11939	P	T	A	CGCGCCGAGGTTTTAATATTTACTGTTCATAATGGATTGY		
11939	P	G	A	ATGACGTGGCAGACGTTTAATATTTACTGTTCATAATGGATTGY		
11939	T	T	A	GAACCAATCCATTATGAACAGTAAATATTAAAACAATACCTCTACTTTTTCATTAGCTGGAGTCTTCTTTCCTATTGGTACCAGC		
11939	T	G	A	GAACCAATCCATTATGAACAGTAAATATTAAACCAATACCTCTACTTTTTCATTAGCTGGAGTCTTCTTTCCTATTGGTACCAGC		
				ATCCCACAGCTGGTACCAATAGGAAAGAAGACTCCAGCTAATGAAAAAGTAGAGGTATTG[TG]TTTAATATTTACTGTTCATAATGGATTGGTTCAGTGGCTA		
11939	IS	[TG]		CTGTGTCAGGCAGGTACTGT	ctg16537	20
11946	I		S	GTGTGGATACTTTTAAGTCTAGGGTCCGTTTTTCATGGCCA		
11946	P	A	S	CGCGCCGAGGTTGGGAAAACTGTGAACCY		
11946	P	G	S	ATGACGTGGCAGACCTGGGAAAACTGTGAACCY		
11946	T	A	S	TCAGGGTTCACAGTTTTCCCAAGGCCATGAAAAACGGACCCTAGACTTAAAAGTATCCACACAG		
11946	T	G	S	TCAGGGTTCACAGTTTTCCCAGGGCCATGAAAAACGGACCCTAGACTTAAAAGTATCCACACAG		
				GCACACAATCACGCAAGAAAACACAGACTCCTTAAAAGTTCAGGGTTCACAGTTTTCCCA[AG]GGCCATGAAAAACGGACCCTAGACTTAAAAGTATCCACAC		
11946	IS	[AG]		AGTAGAAGCATAAAAGAGCC	ctg15907	6
11959	I		A	CTCAGCCTACAAAACCGCCCAGGCCT		
11959	P	A	A	CGCGCCGAGGATCAAGGACTTCAACCGY		
11959	P	G	A	ATGACGTGGCAGACGTCAAGGACTTCAACCGY		
11959	T	A	A	CTCCCGGTTGAAGTCCTTGATGGCCTGGGCGGTTTTGTAGGCTGAGTC		
11959	T	G	A	CTCCCGGTTGAAGTCCTTGACGGCCTGGGCGGTTTTGTAGGCTGAGTC		

FIGURE 129E

11959	IS	[AG]		ATAATTCAGCAGGCAGGACAGGTGTGGTTCCCAGACTCAGCCTACAAAACCGCCCAGGCC[AG]TCAAGGACTTCAACCGGGAGAAGTTGCCCCTGATGATC TTTGCCAACTGGAGGGGGTTCT	ctg12559	6	ACACB
11961	I		S	TTGTTTGGAAGAGGCACTCCTGGGCCTTTTT			
11961	P	T	S	CGCGCCGAGGATTAAGACGGGTGTCAGY			
11961	P	C	S	ATGACGTGGCAGACGTTAAGACGGGTGTCAGY			
11961	T	T	S	CGAGCTGACACCCGTCTTAATAAAAGGCCCAGGAGTGCCTCTTCCAAACAAAA			
11961	T	C	S	CGAGCTGACACCCGTCTTAACAAAAGGCCCAGGAGTGCCTCTTCCAAACAAAA			
11961	IS	[TC]		ACAAAGAAAATCCTGGGCACTTCTGCAGGGCTGCTGGTTCCGAGCTGACACCCGTCTTAA[TC]AAAAGGCCCAGGAGTGCCTCTTCCAAACAAAAACAGCC TCCTCTCCATAGCTGGGAAGTT	ctg16045	6	
11970	I		S	CTTCCTCCCTAATTAAATTGTCCTCTAAATCGATGTCCTGA			
11970	P	G	S	ATGACGTGGCAGACCACCCATTTTTGCGCTY			
11970	P	A	S	CGCGCCGAGGTACCCATTTTTGCGCTGY			
11970	T	G	S	ACAGCAGCGCAAAAATGGGTGCAGGACATCGATTTAGAGGACAATTTAATTAGGGAGGAAGAA			
11970	T	A	S	ACAGCAGCGCAAAAATGGGTACAGGACATCGATTTAGAGGACAATTTAATTAGGGAGGAAGAA			
11970	IS	[GA]		GCTAAAAAAGAAACCCCGGCTTTGGCTCAAGTCGTCCTCTACAGCAGCGCAAAAATGGGT[GA]CAGGACATCGATTTAGAGGACAATTTAATTAGGGAGGAA GAATACTCCTTCAGTGCAGCC	ctg16829	1	
11984	I		S	CCTGCCAGCTGCCTGCCTGCT			
11984	P	T	S	CGCGCCGAGGATCTCAGATGCCAAAGCY			
11984	P	C	S	ATGACGTGGCAGACGTCTCAGATGCCAAAGCY			
11984	T	T	S	CTGGGCTTTGGCATCTGAGATGCAGGCAGGCAGCTGGCAGGCA			
11984	T	C	S	CTGGGCTTTGGCATCTGAGACGCAGGCAGGCAGCTGGCAGGCA			
11984	IS	[TC]		CCAAACCCTCGCTGGAGATCAGATGTCACGGGGCCAGAACCTGGGCTTTGGCATCTGAGA[TC]GCAGGCAGGCAGCTGGCAGGCAGAGTGGAGTGTCTG CCGCACTGATCCAGCTGATGTGCA			
11989	I		S	GACAAGGACACTGCTCAAGGCATTTCACAAGTTGTTA			
11989	P	G	S	ATGACGTGGCAGACCTTTCAGTGTGGAAATCATTCY			
11989	P	A	S	CGCGCCGAGGTTTTCAGTGTGGAAATCATTCY			
11989	T	G	S	GCCTGAATGATTTCCACACTGAAAGAACAACTTGTGAAATGCCTTGAGCAGTGTCCTTGTCTA			
11989	T	A	S	GCCTGAATGATTTCCACACTGAAAAAACAACTTGTGAAATGCCTTGAGCAGTGTCCTTGTCTA			
11989	IS	[GA]		TACAGGACGAAAGGGTACGAAGGATGGTGGCGCAGAGCCTGAATGATTTCCACACTGAAA[GA]AACAACTTGTGAAATGCCTTGAGCAGTGTCCTTGTCTA CTCAGCATATACCTGAACTGTA	ctg13655	10	
11990	I		S	TGGAGTCAGACAAGCCTGAGTCCAGTTCCCA			
11990	P	G	S	ATGACGTGGCAGACCGTTTAGAACTCATTAGCTGTY			
11990	P	A	S	CGCGCCGAGGTGTTTAGAACTCATTAGCTGTY			
11990	T	G	S	TCACACAGCTAATGAGTTCTAAACGGGGAACTGGACTCAGGCTTGTCTGACTCCAAA			
11990	T	A	S	TCACACAGCTAATGAGTTCTAAACAGGGAACTGGACTCAGGCTTGTCTGACTCCAAA			
11990	IS	[GA]		ACCCGGGCTCAGAGGGGTTAAGGGACTCACCCAGAGTCACACAGCTAATGAGTTCTAAAC[GA]GGGAACTGGACTCAGGCTTGTCTGACTCCAAATCCCAC ATTCTTTCCATTCCACTGGGCT	ctg13655	10	KIAA0018
11993	I		S	CCAAACCTCCCTCATGCTAGGAGGCCCT			
11993	P	G	S	CGCGCCGAGGCCCAGCTCCAACCCY			
11993	P	C	S	ATGACGTGGCAGACGCCAGCTCCAACCCY			
11993	T	G	S	GGGTGGGTTGGAGCTGGGGGGCCTCCTAGCATGAGGGAGGTTTGGCA			
11993	T	C	S	GGGTGGGTTGGAGCTGGCGGGCCTCCTAGCATGAGGGAGGTTTGGCA			
11993	IS	[GC]		TCACACACAGTGTCAGCAGGGAGAGCTGTGGGTACAGGGTTGGGGGTGGGTTGGAGCTGG[GC]GGGCCTCCTAGCATGAGGGAGGTTTGGCAGGCTAGC AGAAATGGGGCTGTTGACTTAGGG	ctg16537	20	
12008	I		A	GATGGAATACTTTTAAAGGTAAGACAGCTTAAGAAGATAGGCCT			
12008	P	G	A	ATGACGTGGCAGACGTTTCCGAGATGCAGAAGY			
12008	P	A	A	CGCGCCGAGGATTTCCGAGATGCAGAAGY			
12008	T	G	A	GTAACTTCTGCATCTCGGAAACGGCCTATCTTCTTAAGCTGTCTTACCTTTAAAAGTATTCCATCTC			
12008	T	A	A	GTAACTTCTGCATCTCGGAAATGGCCTATCTTCTTAAGCTGTCTTACCTTTAAAAGTATTCCATCTC			
12008	IS	[GA]		CAGAAGCAAGTTTAAGAGATGGAATACTTTTAAAGGTAAGACAGCTTAAGAAGATAGGCC[GA]TTTCCGAGATGCAGAAGTTACCTATAAATATCATACAAAC TTTCTATAAGAGAGCAATGA	ctg16537	20	
12011	I		A	TGCATTCCATGTGAACAACAGGAGACATTTAATTGCTTGAAAAGTTCT			
12011	P	A	A	CGCGCCGAGGATTGATCTAATTCTTGTAATAAATCATTGY			
12011	P	G	A	ATGACGTGGCAGACGTTGATCTAATTCTTGTAATAAATCATTGY			
12011	T	A	A	TGAACAATGATTTATTACAAGAATTAGATCAATGAACTTTTCAAGCAATTAAATGTCTCCTGTTGTTCACATGGAATGCAAC			
12011	T	G	A	TGAACAATGATTTATTACAAGAATTAGATCAACGAACTTTTCAAGCAATTAAATGTCTCCTGTTGTTCACATGGAATGCAAC			
12011	IS	[AG]		CTTTTATGGGTGTTGCATTCCATGTGAACAACAGGAGACATTTAATTGCTTGAAAAGTTC[AG]TTGATCTAATTCTTGTAATAAATCATTGTTCACATTTCCTG GAACCATGGTACCTAGGGT	ctg16586	20	
12017	I		A	CTCCGTGGACTTGACATTGGTTTTCCTGCCAA			
12017	P	T	A	CGCGCCGAGGTCTATTTCGCTAGGAGATCAY			
12017	P	C	A	ATGACGTGGCAGACCCTATTTCGCTAGGAGATCY			
12017	T	T	A	CTTCTGATCTCCTAGCGAAATAGATGGCAGGAAAACCAATGTCAAGTCCACGGAGGC			
12017	T	C	A	CTTCTGATCTCCTAGCGAAATAGGTGGCAGGAAAACCAATGTCAAGTCCACGGAGGC			
12017	IS	[TC]		AACCCTCCTTGCACTTGTCTCCTCACTGCCTCCGTGGACTTGACATTGGTTTTCCTGCCA[TC]CTATTTCGCTAGGAGATCAGAAGAATTAATGGGCACTTTG TCATCCATGAGTCTAAAGAT	ctg17450	X	
12022	I		S	GTTGTTCCCTTTTGAAGAGAACTCTTTGTCCTGTGGTTTCATTC			
12022	P	C	S	ATGACGTGGCAGACGGTCTGACCAGCGGY			
12022	P	A	S	CGCGCCGAGGTGTCTGACCAGCGGY			
12022	T	C	S	GAAACCGCTGGTCAGACCAATGAAACCACAGGACAAAGAGTTCTCTTCAAAAGGGAACAACAA			
12022	T	A	S	GAAACCGCTGGTCAGACAAATGAAACCACAGGACAAAGAGTTCTCTTCAAAAGGGAACAACAA			
12022	IS	[CA]		CCGTTCACCCTCCCTGTTTTATAGATGGCAAGCATCTCCTAAAGAAACCGCTGGTCAGAC[CA]AATGAAACCACAGGACAAAGAGTTCTCTTCAAAAGGGAA CAACAAGAAGGAGAGAAAAAA	ctg17450	X	
12039	I		A	TCTTAGAATTCGCTGTCATGATACCATTTGCATAACCTTT			
12039	P	G	A	ATGACGTGGCAGACGTTCCTCACTGTTTTCTTTGY			
12039	P	A	A	CGCGCCGAGGATTCCTCACTGTTTTCTTTGY			
12039	T	G	A	CATGCAAAGAAAACAGTGAGGAACAAGGTTATGCAAATGGTATCATGACAGCGAATTCTAAGAAA			
12039	T	A	A	CATGCAAAGAAAACAGTGAGGAATAAGGTTATGCAAATGGTATCATGACAGCGAATTCTAAGAAA			
12039	IS	[GA]		GGATAAACTAGTAGTTTCTTTTCTTAGAATTCGCTGTCATGATACCATTTGCATAACCTT[GA]TTCCTCACTGTTTTCTTTGCATGGAAACTAGTGTTGACTGT TTCGTCCCTACCCTCAGTA	ctg17450	X	
12047	I		A	CATGGCTGTTGGGTTGCTCTGCCTCATGT			
12047	P	C	A	CGCGCCGAGGCTCTGCCCTCCTTCCY			
12047	P	G	A	ATGACGTGGCAGACGTCTGCCCTCCTTCCY			
12047	T	C	A	AAGAGGAAGGAGGGCAGACATGAGGCAGAGCAACCCAACAGCCATGGA			
12047	T	G	A	AAGAGGAAGGAGGGCAGACCATGAGGCAGAGCAACCCAACAGCCATGGA			
12047	IS	[CG]		TCCTGTAGGTGTTGCATCGTCTCTTCAGCCTCCATGGCTGTTGGGTTGCTCTGCCTCATG[CG]TCTGCCCTCCTTCCTCTTTGTCCCTCAGAGCCTCTGGTT TTGTGCTTTCTCCTCCCAGGG	ctg17450	X	
12050	I		A	TCAGAACTGCATCACATGTTCACCCCTAAACCAATCAC			
12050	P	T	A	CGCGCCGAGGTGAGCAAAGGGTCATTAGY			
12050	P	A	A	ATGACGTGGCAGACAGAGCAAAGGGTCATTAGY			
12050	T	T	A	GGACCTAATGACCCTTTGCTCATGATTGGTTTAGGGGTGAACATGTGATGCAGTTCTGACC			
12050	T	A	A	GGACCTAATGACCCTTTGCTCTTGATTGGTTTAGGGGTGAACATGTGATGCAGTTCTGACC			
12050	IS	[TA]		AGCTTCCTTTAAGATCCCATTGGTCAGAACTGCATCACATGTTCACCCCTAAACCAATCA[TA]GAGCAAAGGGTCATTAGGTCCCTCATGATTGGCTTAGATC CCGTAATGGATCATCCACTA	ctg17450	X	
12052	I		S	GCAGGTCTTCAGCTGTCATTGTTCCCCCTGT			
12052	P	C	S	ATGACGTGGCAGACGCTTCTCCTTTTGGAACAY			
12052	P	T	S	CGCGCCGAGGACTTCTCCTTTTGGAACATAGY			
12052	T	C	S	ATTTCTATGTTCCAAAAGGAGAAGCCAGGGGGAACAATGACAGCTGAAGACCTGCTG			
12052	T	T	S	ATTTCTATGTTCCAAAAGGAGAAGTCAGGGGGAACAATGACAGCTGAAGACCTGCTG			

FIGURE 129E

			GGCATAAGTAACTTGAAATGACAAAGAGTTTAGGATATTTCTATGTTCCAAAAGGAGAAG[CT]CAGGGGGAACAATGACAGCTGAAGACCTGCTGAATAACTT			
12052 IS	[CT]		TTGACTGTTAGGATTTTGAG	MULTIPLE		16
12057 I		A	GAAGGTGAGCCCTGCCGGCCTCA			
12057 P	T	A	CGCGCCGAGGTGGGACCTGCACGY			
12057 P	C	A	ATGACGTGGCAGACCGGGACCTGCACGY			
12057 T	T	A	GTTCCGTGCAGGTCCCAGAGGCCGGCAGGGCTCACCTTCCA			
12057 T	C	A	GTTCCGTGCAGGTCCCGGAGGCCGGCAGGGCTCACCTTCCA			
			GGGCCCCGCAGGGAAAGCCCCAGGAAGGTGAGCCCCTGGAAGGTGAGCCCTGCCGGCCTC[TC]GGGACCTGCACGGAACTGTACTGGGGGTGGAGGCG			
12057 IS	[TC]		GAAGGTGAGGGGAGTGGCGGGAAGG	ctg17129		17
12063 I		S	TGAGACTGGGGCTCCTGGTTCTGCAAGTAT			
12063 P	G	S	CGCGCCGAGGCCTCGCATACAGCAGY			
12063 P	C	S	ATGACGTGGCAGACGCTCGCATACAGCAGY			
12063 T	G	S	GCACCTGCTGTATGCGAGGTACTTGCAGAACCAGGAGCCCCAGTCTCACC			
12063 T	C	S	GCACCTGCTGTATGCGAGCTACTTGCAGAACCAGGAGCCCCAGTCTCACC			
			TACCACCTCACTGCCCTGTTCATGTCACGAGGCATTAATGAAGCACCTGCTGTATGCGAG[GC]TACTTGCAGAACCAGGAGCCCCAGTCTCACCTCCACGA			
12063 IS	[GC]		GGTTGTGCTGCCAAGCCCATTT	ctg17129		17
12066 I		A	CCCTAAAGTACCTGCTCTTTCCCCAAACCCAAA			
12066 P	T	A	CGCGCCGAGGTGGGAACCCTCCTTTCY			
12066 P	C	A	ATGACGTGGCAGACCGGGAACCCTCCTTTY			
12066 T	T	A	CATTGAAAGGAGGGTTCCCATTGGGTTTGGGGAAAGAGCAGGTACTTTAGGGCT			
12066 T	C	A	CATTGAAAGGAGGGTTCCCGTTGGGTTTGGGGAAAGAGCAGGTACTTTAGGGCT			
			GCCATAAATGGCAGGGCTGGGACTCAAGCCCTAAAGTACCTGCTCTTTCCCCAAACCCAA[TC]GGGAACCCTCCTTTCAATGGGAGGCCATGAGGCCTCCC			
12066 IS	[TC]		TGAGAGTAGGAAGGTTATCATG	ctg17129		17
12068 I		S	AGATGCCCATGGTTGCATGAAGAGAAAGGCTTTCA			
12068 P	A	S	CGCGCCGAGGTTTCATGTCAAGAGCTACTCY			
12068 P	G	S	ATGACGTGGCAGACCTTCATGTCAAGAGCTACTCY			
12068 T	A	S	TGTGGAGTAGCTCTTGACATGAAAGAAAGCCTTTCTCTTCATGCAACCATGGGCATCTTT			
12068 T	G	S	TGTGGAGTAGCTCTTGACATGAAGGAAAGCCTTTCTCTTCATGCAACCATGGGCATCTTT			
			TGGAAATGCAGTGAATCTTTGAGCAATGAAAGCAATTTGTGGAGTAGCTCTTGACATGAA[AG]GAAAGCCTTTCTCTTCATGCAACCATGGGCATCTTTCCTA			
12068 IS	[AG]		TGTTTTGGAAGTTTCTAAAA			
12080 I		S	CCCACCCTCCCCCTGCCTTGGC			
12080 P	A	S	CGCGCCGAGGTTCCCCGAGCCAAGY			
12080 P	C	S	ATGACGTGGCAGACGTCCCCGAGCCAAGY			
12080 T	A	S	AATTCTTGGCTCGGGGAACCAAGGCAGGGGGAGGGTGGGCT			
12080 T	C	S	AATTCTTGGCTCGGGGACCCAAGGCAGGGGGAGGGTGGGCT			
			CCTTGACCGCAAACACTGGCGTTTTTGTGCCCCGGATTTCTGAAATTCTTGGCTCGGGGA[AC]CCAAGGCAGGGGGAGGGTGGGCTTGTAAAAACTTCCCA			
12080 IS	[AC]		AAGCAGAAATCCGAGCTCCTAG			
12087 I		S	GGGGGTGTACACCTGCTTGACGGAGTCT			
12087 P	T	S	CGCGCCGAGGATAGAGGCCGATGCGY			
12087 P	C	S	ATGACGTGGCAGACGTAGAGGCCGATGCGY			
12087 T	T	S	CATCCGCATCGGCCTCTATGACTCCGTCAAGCAGGTGTACACCCCCAA			
12087 T	C	S	CATCCGCATCGGCCTCTACGACTCCGTCAAGCAGGTGTACACCCCCAA			
			TGGGCTGGTGGCCGGCCTGCAGCGCCAGATGAGCTTCGCCTCCATCCGCATCGGCCTCTA[TC]GACTCCGTCAAGCAGGTGTACACCCCCAAAGGCGCG			
12087 IS	[TC]		GACAGTGAGTGACCAGGTCCCTGA			
12098 I		S	TGCCGGCAGAGTCCACTCCCTTCCT			
12098 P	C	S	ATGACGTGGCAGACGCCCTGGGCCTTTY			
12098 P	T	S	CGCGCCGAGGACCCTGGGCCTTTTY			
12098 T	C	S	CACCAAAAGGCCCAGGGCGGAAGGGAGTGGACTCTGCCGGCAGG			
12098 T	T	S	CACCAAAAGGCCCAGGGTGGAAGGGAGTGGACTCTGCCGGCAGG			
			GCCAGGCAGAGCGAGGCCTGGGACTCACTCACAGTAACCCTTTCACCAAAAGGCCCAGGG[CT]GGAAGGGAGTGGACTCTGCCGGCAGGAGCTGAGAAA			
12098 IS	[CT]		TCCTCTGAGTAGCGGGAAGTGCGG	ctg11		15
12100 I		S	CTCATTTCATCCTCTTATCACCCCACTGCGT			
12100 P	C	S	ATGACGTGGCAGCGTAGTCATCCCCATTGTATAGY			
12100 P	T	S	CGCGCCGAGGATAGTCATCCCCATTGTATAGAY			
12100 T	C	S	TTCATCTATACAATGGGGATGACTACCGCAGTGGGGTGATAAGAGGATGAAATGAGTA			
12100 T	T	S	TTCATCTATACAATGGGGATGACTATCGCAGTGGGGTGATAAGAGGATGAAATGAGTA			
			GGGCAAGTGACTTAACTTCTCTAAGCCTCAGTTTCTTCATCTATACAATGGGGATGACTA[CT]CGCAGTGGGGTGATAAGAGGATGAAATGAGTAAATATTTC			
12100 IS	[CT]		GAAAGTACTTGAAACTATGG	ctg4256		1
12103 I		S	CCTAAAATCAAAGATTTAACTTTCCCAGCTGCCTTCTA			
12103 P	A	S	CGCGCCGAGGTAAAGTATTCAAGACATAGAATGCY			
12103 P	G	S	ATGACGTGGCAGACCAAAGTATTCAAGACATAGAATGCY			
12103 T	A	S	CAGAGCATTCTATGTCTTGAATACTTTAAGAAGGCAGCTGGGAAAGTTAAATCTTTGATTTTAGGAT			
12103 T	G	S	CAGAGCATTCTATGTCTTGAATACTTTGAGAAGGCAGCTGGGAAAGTTAAATCTTTGATTTTAGGAT			
			AATTTAAATCAGAACTAATAAAGAAAAAAACATCAGAGCATTCTATGTCTTGAATACTTT[AG]AGAAGGCAGCTGGGAAAGTTAAATCTTTGATTTTAGGATATT			
12103 IS	[AG]		TATAAGATATCACATGAT	ctg18647		17
12109 I		S	AGGAAAATAAAAATACAAGTTGAATATCCCTTACCTGAAACATTTGGAT			
12109 P	G	S	CGCGCCGAGGCGAGAAGCATTTCAGATTCAY			
12109 P	C	S	ATGACGTGGCAGACGGAGAAGCATTTCAGATTCAY			
12109 T	G	S	TTTCTGAATCTGAAATGCTTCTCGTCCAAATGTTTCAGGTAAGGGATATTCAACTTGTATTTTTATTTTCCTCA			
12109 T	C	S	TTTCTGAATCTGAAATGCTTCTCCTCCAAATGTTTCAGGTAAGGGATATTCAACTTGTATTTTTATTTTCCTCA			
			ACCTCATGTATATGCAAATTTTCCAAAACCCAAAAAATTTCTGAATCTGAAATGCTTCT[GC]TCCAAATGTTTCAGGTAAGGGATATTCAACTTGTATTTTTAT			
12109 IS	[GC]		TTTCCTCATTCATATACA	ctg16105		5
12111 I		A	GGCAAGGCAGGCCGGGCACT			
12111 P	G	A	ATGACGTGGCAGACGGTGGCTCACGCTY			
12111 P	A	A	CGCGCCGAGGAGTGGCTCACGCTTY			
12111 T	G	A	TTACAAGCGTGAGCCACCGTGCCCGGCCTGCCTTGCCTG			
12111 T	A	A	TTACAAGCGTGAGCCACTGTGCCCGGCCTGCCTTGCCTG			
			AGAGGGGGTTCTTGGCAGATGACGCCAGCAGCTGACAAACAGGCAAGGCAGGCCGGGCAC[GA]GTGGCTCACGCTTGTAATCCCAGCACTTTGGGAGTCC			
12111 IS	[GA]		AAGGTAAGCGGATCACAAGGTCA	ctg14747		2
12125 I		S	CCACCGCCCGAGGGATGAAGACCAC			
12125 P	A	S	CGCGCCGAGGTAAGTCGCTTACCCGAGY			
12125 P	C	S	ATGACGTGGCAGACGAAGTCGCTTACCCGAY			
12125 T	A	S	TGCCCTCGGGTAAGCGACTTATGGTCTTCATCCCTCGGGCGGTGGCA			
12125 T	C	S	TGCCCTCGGGTAAGCGACTTCTGGTCTTCATCCCTCGGGCGGTGGCA			
			GGGCAGAGCCAGCCCCGGGGCTTGGCAAGGCCGGAACTGGTGCCCTCGGGTAAGCGACTT[AC]TGGTCTTCATCCCTCGGGCGGTGGCACACGCGGCC			
12125 IS	[AC]		CTCGGGGACTGTGGAAAGTTCCGTG	ctg14747		2
12134 I		A	CCCCTGCTGTGGTCAGTTGGGGCA			
12134 P	T	A	CGCGCCGAGGTGGGGAAGAGGTGGY			
12134 P	C	A	ATGACGTGGCAGACCGGGGAAGAGGTGGY			
12134 T	T	A	TCCCCCACCTCTTCCCCAGCCCCAACTGACCACAGCAGGGGAG			
12134 T	C	A	TCCCCCACCTCTTCCCCGGCCCCAACTGACCACAGCAGGGGAG			
			CTACGGCCGCGCTCCGTGCCCTTCATCCATGTGCCCTCCCCTGCTGTGGTCAGTTGGGGC[TC]GGGGAAGAGGTGGGGGATGGGCCGGGGCGCCTGTG			
12134 IS	[TC]		GCCTCTCCCTTACCACATTTTCTTC	ctg17326		12
12147 I		A	GCATCTGTCATGGGACACTCCTCCAGCACT			
12147 P	G	A	ATGACGTGGCAGACGCATGTGGCTATCTTGAGY			
12147 P	A	A	CGCGCCGAGGACATGTGGCTATCTTGAGAY			
12147 T	G	A	CCATTCTCAAGATAGCCACATGCGTGCTGGAGGAGTGTCCCATGACAGATGCAA			
12147 T	A	A	CCATTCTCAAGATAGCCACATGTGTGCTGGAGGAGTGTCCCATGACAGATGCAA			

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FIGURE 129E

			GTCAGGAAGAGTCAGAAAATTCAGGCATTTTGCATCTGTCATGGGACACTCCTCCAGCAC[GA]CATGTGGCTATCTTGAGAATGGACAGGACACCTGGGAT				
12147 IS	[GA]		GGGGAAGGGAGCACAGAACCCA		ctg22fin4	22	
12152 I		S	CCCCAGGCTCTCACTCCATGAGGTATTTCTACACT				
12152 P	G	S	ATGACGTGGCAGACCTCCGTGTCCCGGY				
12152 P	T	S	CGCGCCGAGGATCCGTGTCCCGGY				
12152 T	G	S	CGGGCCGGGACACGGAGGTGTAGAAATACCTCATGGAGTGAGAGCCTGGGGAC				
12152 T	T	S	CGGGCCGGGACACGGATGTGTAGAAATACCTCATGGAGTGAGAGCCTGGGGAC				
			GTCGTCCACGTAGCCCACTGCGATGAAGCGGGGCTCCCCGCGGCCGGGCCGGGACACGGA[GT]GTGTAGAAATACCTCATGGAGTGAGAGCCTGGGGAC				
12152 IS	[GT]		GAGGAGTGGCTGAGACCCGCCCGA		ctg12729	1	
12160 I		S	CCTGGGCTTCTACCCTGCGGAGATCAA				
12160 P	A	S	CGCGCCGAGGTACTGACCTGGCAGCY				
12160 P	G	S	ATGACGTGGCAGACCACTGACCTGGCAGCY				
12160 T	A	S	TCCCGCTGCCAGGTCAGTATGATCTCCGCAGGGTAGAAGCCCAGGGC				
12160 T	G	S	TCCCGCTGCCAGGTCAGTGTGATCTCCGCAGGGTAGAAGCCCAGGGC				
			CTGGTCTCCACGAGCTCCACGTCCTGGGTCTGGTCCTCCCCATCCCGCTGCCAGGTCAGT[AG]TGATCTCCGCAGGGTAGAAGCCCAGGGCCCAGCACCT				
12160 IS	[AG]		CAGGGTGGCCTCATAGTCAAAGA		ctg12325	11	HLA-G
12166 I		A	CCAGAGAGCAGGACGGGCCCTCAT				
12166 P	G	A	ATGACGTGGCAGACGAATCACTCTCTGGTACAGY				
12166 P	C	A	CGCGCCGAGGCAATCACTCTCTGGTACAGY				
12166 T	G	A	GATCCTGTACCAGAGAGTGATTCTGAGGGCCCGTCCTGCTCTCTGGGA				
12166 T	C	A	GATCCTGTACCAGAGAGTGATTGTGAGGGCCCGTCCTGCTCTCTGGGA				
			CCCTCCACTCCCTCAGAGACTTCATCCCTTAATTGTCCCAGAGAGCAGGACGGGCCCTCA[GC]AATCACTCTCTGGTACAGGATCTGGAAACCCAGGAGGA				
12166 IS	[GC]		TTCCTCTCCCTCAGGACCAGAG		ctg15285	12	
12189 I		S	GATGTCCTTTCAGCAGAAAGCAACAATTTGAGAACTGGCC				
12189 P	A	S	CGCGCCGAGGTTTTCCTATTCCTGTTTAACGY				
12189 P	C	S	ATGACGTGGCAGACGTTTCCTATTCCTGTTTAACGY				
12189 T	A	S	GGGGCGTTAAACAGGAATAGGAAAAGCCAGTTCTCAAATTGTTGCTTTCTGCTGAAAGGACATCCA				
12189 T	C	S	GGGGCGTTAAACAGGAATAGGAAACGCCAGTTCTCAAATTGTTGCTTTCTGCTGAAAGGACATCCA				
			CGTAAGGCAATGGAAAAGAAATTCACCATGAATGGTGGGGCGTTAAACAGGAATAGGAAA[AC]GCCAGTTCTCAAATTGTTGCTTTCTGCTGAAAGGACATC				
12189 IS	[AC]		CACTGCTTGAATCCAGGGCTG		ctg16279	17	
12243 I		A	GGGCTCAGCCACATCAGCACCCACT				
12243 P	A	A	CGCGCCGAGGATTTGACAAAACAACCTGAGY				
12243 P	G	A	ATGACGTGGCAGACGTTTGACAAAACAACCTGAGY				
12243 T	A	A	GAGCCTCAGGTTGTTTTGTCAAACGTGGGTGCTGATGTGGCTGAGCCCTG				
12243 T	G	A	GAGCCTCAGGTTGTTTTGTCAAACGTGGGTGCTGATGTGGCTGAGCCCTG				
			CTAGGAAATCACAGGATGCCAGAGCCGGAAGACACAGGGCTCAGCCACATCAGCACCCAC[AG]TTTGACAAAACAACCTGAGGCTCAGGGAGAGGAAGGA				
12243 IS	[AG]		GCACGCCTGAGCTCCCAGAACAA		MULTIPLE	MULTIPLE	
12255 I		A	GCATGGGGCCGAGCCTCCCCT				
12255 P	G	A	ATGACGTGGCAGACGCTTAGGGGTGCTGAY				
12255 P	C	A	CGCGCCGAGGCCTTAGGGGTGCTGAGY				
12255 T	G	A	TTCACTCAGCACCCCTAAGCGGGGAGGCTCGGCCCCATGCGG				
12255 T	C	A	TTCACTCAGCACCCCTAAGGGGGGAGGCTCGGCCCCATGCGG				
			TGGGACAGCAGGAAGGACTTCCCAGCATCAAGGCGGGGCCGCATGGGGCCGAGCCTCCCC[GC]CTTAGGGGTGCTGAGTGAATCCCTGTGAGCCTCGGA				
12255 IS	[GC]		GCAGCCTGGCTGGAGAAGGTGGAG				
12275 I		A	CAAGGCCATCGATGCATATGCAGAGGACCAA				
12275 P	C	A	ATGACGTGGCAGACCGGCCCCATCTATAATTACY				
12275 P	T	A	CGCGCCGAGGTGGCCCCATCTATAATTACY				
12275 T	C	A	CACGGTAATTATAGATGGGGCCGTGGTCCTCTGCATATGCATCGATGGCCTTGTA				
12275 T	T	A	CACGGTAATTATAGATGGGGCCATGGTCCTCTGCATATGCATCGATGGCCTTGTA				
			CCCCCCCTCTGGCTCCCACAGACTGCTATACAAGGCCATCGATGCATATGCAGAGGACCA[CT]GGCCCCATCTATAATTACCGTGTGGAGATCTCAGTGTT				
12275 IS	[CT]		CTTCATTGTCTACATCATCATC				
12374 I		A	ACATTTATGAGATTTTTCTGAGTTTTTCTTTTCTTAGCTCATCAGCTT				
12374 P	G	A	ATGACGTGGCAGACGTCATTAGTGTATTTTATGTGTGGY				
12374 P	A	A	CGCGCCGAGGATCATTAGTGTATTTTATGTGTGGY				
12374 T	G	A	TTGGCCACACATAAAATACACTAATGACAGCTGATGAGCTAAGAAAAGAAAAACTCAGAAAAATCTCATAAATGTTT				
12374 T	A	A	TTGGCCACACATAAAATACACTAATGATAGCTGATGAGCTAAGAAAAGAAAAACTCAGAAAAATCTCATAAATGTTT				
			ATACCTTTTAAAAACATTTATGAGATTTTTCTGAGTTTTTCTTTTCTTAGCTCATCAGCT[GA]TCATTAGTGTATTTTATGTGTGGCCAAAGACAATTCTTCTTC				
12374 IS	[GA]		CAGTGTGGTCCAGGGAAG		ctg16733	3	
12380 I		S	TGTCCATTGTGCTGGATGAAAAGATCAATCACCAGTGAACT				
12380 P	G	S	ATGACGTGGCAGACCCGTAAATTTGTAGCTCCGY				
12380 P	T	S	CGCGCCGAGGACGTAAATTTGTAGCTCCCY				
12380 T	G	S	TTTAGGGAGCTACAAATTTACGGGTTCACTGGTGATTGATCTTTTCATCCAGCACAATGGACAGA				
12380 T	T	S	TTTAGGGAGCTACAAATTTACGTGTTCACTGGTGATTGATCTTTTCATCCAGCACAATGGACAGA				
			TGGTACTGATTGTTTTTCCCATGCCTCAATTGGTTTCTTTTAGGGAGCTACAAATTTACG[GT]GTTCACTGGTGATTGATCTTTTCATCCAGCACAATGGACA				
12380 IS	[GT]		GAAGTCTAAGGAACGTCCTT		ctg15944	11	
12409 I		S	CCGATGATCAGGGCCACAGTGCACACT				
12409 P	C	S	ATGACGTGGCAGACGGCCTTGGAGGTAAAGY				
12409 P	T	S	CGCGCCGAGGAGCCTTGGAGGTAAAGGY				
12409 T	C	S	GTGTCCTTTACCTCCAAGGCCGTGTGCACTGTGGCCCTGATCATCGGCT				
12409 T	T	S	GTGTCCTTTACCTCCAAGGCTGTGTGCACTGTGGCCCTGATCATCGGCT				
			CCAGACTTAGCCCATGCTTTTTAATCCTTATGAAATGAATGTGTCCTTTACCTCCAAGGC[CT]GTGTGCACTGTGGCCCTGATCATCGGCTCCTGGTCCCAC				
12409 IS	[CT]		AGGCCCTGGTGCCCTTGCATC		ctg22fin4	22	
12430 I		S	CATCACTCTCAGGCCAAGCCCATGCAATCTA				
12430 P	G	S	ATGACGTGGCAGACCATCTTCTCCTATGGCCAY				
12430 P	A	S	CGCGCCGAGGTATCTTCTCCTATGGCCAAY				
12430 T	G	S	GAGTTTGGCCATAGGAGAAGATGAGATTGCATGGGCTTGGCCTGAGAGTGATGCC				
12430 T	A	S	GAGTTTGGCCATAGGAGAAGATAAGATTGCATGGGCTTGGCCTGAGAGTGATGCC				
			GAGTAAACTGAGGGCTGTTTCACCATTGCCAGAGCAGTGAGTTTGGCCATAGGAGAAGAT[GA]AGATTGCATGGGCTTGGCCTGAGAGTGATGCCTTTTCT				
12430 IS	[GA]		CTGGGTTTGTCCTCTGGAAGTT		ctg22fin4	22	
12432 I		S	GGTGGGCGGGATGCTTTAATCCCACACTATAA				
12432 P	G	S	ATGACGTGGCAGACCCTCCCATCGCTCTTY				
12432 P	A	S	CGCGCCGAGGTCTCCCATCGCTCTTCY				
12432 T	G	S	CTGTGAAGAGCGATGGGAGGTATAGTGTGGGATTAAAGCATCCCGCCCACCCT				
12432 T	A	S	CTGTGAAGAGCGATGGGAGATATAGTGTGGGATTAAAGCATCCCGCCCACCCT				
			TGTGCACTATGGGGGTGGAGTTGCTCTGTGCAGAATGCCCTCTGTGAAGAGCGATGGGAG[GA]TATAGTGTGGGATTAAAGCATCCCGCCCACCCTTGGC				
12432 IS	[GA]		AAAAGCCTGGAGCTTAGTAAGGC		MULTIPLE	MULTIPLE	
12442 I		S	CCAGGGGCCCCAGGTCCATCTTGAGT				
12442 P	T	S	CGCGCCGAGGACTGTGAACATGCTGGY				
12442 P	C	S	ATGACGTGGCAGACGCTGTGAACATGCTGGY				
12442 T	T	S	ACAGCCAGCATGTTCACAGTCTCAAGATGGACCTGGGGCCCCTGGCT				
12442 T	C	S	ACAGCCAGCATGTTCACAGCCTCAAGATGGACCTGGGGCCCCTGGCT				
			GCTGCCCCACCCTCCCCTGATACCAGCTCACAGACCCCTGGACAGCCAGCATGTTCACAG[TC]CTCAAGATGGACCTGGGGCCCCTGGCTGTCAAAATGG				
12442 IS	[TC]		CACAGTGTTTGGGCCTCAGGGAG		MULTIPLE	MULTIPLE	
12445 I		S	CCGGTAGGTCACCTCTCTGGTGGGTATTGTT				
12445 P	C	S	ATGACGTGGCAGACGGCCAGACTGGAGCY				
12445 P	T	S	CGCGCCGAGGAGCCAGACTGGAGCY				
12445 T	C	S	CCGTGCTCCAGTCTGGCCACAATACCCACCAGAGAGGTGACCTACCGGTA				
12445 T	T	S	CCGTGCTCCAGTCTGGCTACAATACCCACCAGAGAGGTGACCTACCGGTA				

UNDER 35 USC 112 PAT. APP. PENDING

FIGURE 129E

				AAAAGAAACTCATGTGGTCACTGGGGATTCTATAGAGTGGGGCCCGTGCTCCAGTCTGGC[CT]ACAATACCCACCAGAGAGGTGACCTACCGGTACGCAAC		
12445 IS	[CT]			AGAGGCGATTTCATTCTTATCC	MULTIPLE	22
12447 I		S		GGAGACCCCACTTCTACATGCAGCTTCCATTATGAT		
12447 P	T	S		CGCGCCGAGGACACCCAGGAAGTGGY		
12447 P	C	S		ATGACGTGGCAGACGCACCCAGGAAGTGGY		
12447 T	T	S		AACCCCACTTCCTGGGTGTTCATAATGGAAGCTGCATGTAGAAGTGGGGTCTCCAC		
12447 T	C	S		AACCCCACTTCCTGGGTGCTCATAATGGAAGCTGCATGTAGAAGTGGGGTCTCCAC		
				ATTGCTGGTCTGTCTCATTTTGCCACCCCGGCACAGTGAGAGAACCCCACTTCCTGGGTG[TC]TCATAATGGAAGCTGCATGTAGAAGTGGGGTCTCCACT		
12447 IS	[TC]			CAGCTCAGAGCAGGAAAGGTGA	ctg22fin4	22
12448 I		A		AGTCAAGAGGGGCATTTGGTCCTCTTGTCCTT		
12448 P	C	A		CGCGCCGAGGCCATTCTCAGGCATGGY		
12448 P	G	A		ATGACGTGGCAGACGCATTCTCAGGCATGGY		
12448 T	C	A		CTACCCATGCCTGAGAATGGAGGACAAGAGGACCAAATGCCCCTCTTGACTCG		
12448 T	G	A		CTACCCATGCCTGAGAATGCAGGACAAGAGGACCAAATGCCCCTCTTGACTCG		
				CAGTGCCCCCAGGGGGCTTCCTCCTGGGCGAGTCAAGAGGGGCATTTGGTCCTCTTGTCCT[CG]CATTCTCAGGCATGGGTAGATGGGAGATGCCCCCCTC		
12448 IS	[CG]			TGCAGCCCCAGGCAGTGGGCCTG	ctg22fin4	22
12467 I		S		GCCCTTTTCCAGGAGCCACGTCCTCAT		
12467 P	C	S		ATGACGTGGCAGACGTCTCTTTGCTTGATAAACCTY		
12467 P	T	S		CGCGCCGAGGATCTCTTTGCTTGATAAACCTY		
12467 T	C	S		CCCCAGGTTTATCAAGCAAAGAGACTGAGGACGTGGCTCCTGGAAAAGGGCTG		
12467 T	T	S		CCCCAGGTTTATCAAGCAAAGAGATTGAGGACGTGGCTCCTGGAAAAGGGCTG		
				CTTTTTTGGGGTTTATTTTGCTGGGTTGGAGGCCGTCCCCAGGTTTATCAAGCAAAGAGA[CT]TGAGGACGTGGCTCCTGGAAAAGGGCTGGGAGGGAAGA		
12467 IS	[CT]			GCCAGGGAGGGGCTCTGCACCCT	ctg22fin4	22
12502 I		S		GGAACGGAGGGACAGGACCCCACCA		
12502 P	G	S		ATGACGTGGCAGACCGCCATCAGGGGCY		
12502 P	A	S		CGCGCCGAGGTGCCATCAGGGGCY		
12502 T	G	S		GCAGGCCCCTGATGGCGGGTGGGGTCCTGTCCCTCCGTTCCTA		
12502 T	A	S		GCAGGCCCCTGATGGCAGGTGGGGTCCTGTCCCTCCGTTCCTA		
				GGTCCTCTGCTCTCTGGGTGGGGTCCGTGGGAACCGTGTTATGAGCAGGCCCCTGATGGC[GA]GGTGGGGTCCTGTCCCTCCGTTCCTACCCAGCCACG		
12502 IS	[GA]			GGTGGCAGTTCTGTCTTCCTCCTG	ctg22fin4	22
12522 I		A		CTCATTCACCAGATCCAGGAATCCCTTCACTGGTT		
12522 P	A	A		CGCGCCGAGGACTTTGGGCCCTTCCY		
12522 P	G	A		ATGACGTGGCAGACGCTTTGGGCCCTTCY		
12522 T	A	A		GCACGGAAGGGCCCAAAGTACCAGTGAAGGGATTCCTGGATCTGGTGAATGAGAA		
12522 T	G	A		GCACGGAAGGGCCCAAAGCACCAGTGAAGGGATTCCTGGATCTGGTGAATGAGAA		
				AGGGCCCTGGGTGATCACCTCGTCTTCTCATTCACCAGATCCAGGAATCCCTTCACTGGT[AG]CTTTGGGCCCTTCCGTGCATCTCTCTAATGACAGGGCA		
12522 IS	[AG]			CATGTGCTGTGCACAGTCCAGT	ctg22fin4	22
12525 I		A		AGTTAGCCTCTGTGACTTTTAGGCTCCAAAGTACTTCATGTGC		
12525 P	G	A		ATGACGTGGCAGACGGTCTGCCAAAACCCY		
12525 P	T	A		CGCGCCGAGGTGTCTGCCAAAACCCTY		
12525 T	G	A		TTCAAGGGTTTTGGCAGACCCACATGAAGTACTTTGGAGCCTAAAAGTCACAGAGGCTAACTCC		
12525 T	T	A		TTCAAGGGTTTTGGCAGACACACATGAAGTACTTTGGAGCCTAAAAGTCACAGAGGCTAACTCC		
				CAGTAAACGTATCCAGGGAGTTAGCCTCTGTGACTTTTAGGCTCCAAAGTACTTCATGTG[GT]GTCTGCCAAAACCCTTGAAACTTCATGTTGTTACAGATGA		
12525 IS	[GT]			CTGCAAACACAACACCAATT	ctg22fin6	22
12531 I		S		AGCCTGACCTCGGGGTGGGGAT		
12531 P	T	S		CGCGCCGAGGACCCAGCACTGGACY		
12531 P	C	S		ATGACGTGGCAGACGCCCAGCACTGGAY		
12531 T	T	S		TGTTGTCCAGTGCTGGGTTCCCCACCCCGAGGTCAGGCTGC		
12531 T	C	S		TGTTGTCCAGTGCTGGGCTCCCCACCCCGAGGTCAGGCTGC		
				CCCCGACCAAACCTCGGGGAGCCCTCCTGTGCCCCTCCCTCCTTGTTGTCCAGTGCTGGG[TC]TCCCCACCCCGAGGTCAGGCTGCCCAATCCTCTGACT		
12531 IS	[TC]			GGATCACCGGGGGCTTCTTGCCT	ctg22fin7	22
12552 I		A		CTTCTACTTGCTTCAAAGGCAAATGCAAAACTTTTCATCCCTT		
12552 P	G	A		ATGACGTGGCAGACGGAGAAAGGCCTTTCATTY		
12552 P	A	A		CGCGCCGAGGAGAGAAAGGCCTTTCATTGY		
12552 T	G	A		CCCTCAATGAAAGGCCTTTCTCCAGGGATGAAAAGTTTTGCATTTGCCTTTGAAGCAAGTAGAAGTT		
12552 T	A	A		CCCTCAATGAAAGGCCTTTCTCTAGGGATGAAAAGTTTTGCATTTGCCTTTGAAGCAAGTAGAAGTT		
				GGAAACCTATGTTCTCAACTTCTACTTGCTTCAAAGGCAAATGCAAAACTTTTCATCCCT[GA]GAGAAAGGCCTTTCATTGAGGGCTAGGGCTCACCTGGGG		
12552 IS	[GA]			AACCCACTTAGGAGACACAAA	ctg22fin4	22
12553 I		A		ACAGAACAGAGAATCCACAGGCTAAGGGGGTTCA		
12553 P	C	A		ATGACGTGGCAGACCGCTGGACAGAGGCY		
12553 P	T	A		CGCGCCGAGGTGCTGGACAGAGGCY		
12553 T	C	A		CCAAGCCTCTGTCCAGCGGAACCCCCTTAGCCTGTGGATTCTCTGTTCTGTTG		
12553 T	T	A		CCAAGCCTCTGTCCAGCAGAACCCCCTTAGCCTGTGGATTCTCTGTTCTGTTG		
				AACAAACAGAGACCTTGGGCAAAGGCAACAGAACAGAGAATCCACAGGCTAAGGGGGTTC[CT]GCTGGACAGAGGCTTGGCGACCAGCACAATCTTTCTCT		
12553 IS	[CT]			GTCCAGGTGCAGATGGAGCCAC	ctg22fin4	22
12556 I		S		GCCCCATGCGCTGGTGGCAGTCT		
12556 P	T	S		CGCGCCGAGGACAGAATGGTGAGCATTTY		
12556 P	G	S		ATGACGTGGCAGACCCAGAATGGTGAGCATTTY		
12556 T	T	S		TGGCAAATGCTCACCATTCTGTGACTGCCACCAGCGCATGGGGCCG		
12556 T	G	S		TGGCAAATGCTCACCATTCTGGGACTGCCACCAGCGCATGGGGCCG		
				CTTTTCCTGTGGAGGCTGTACAGTTTGAGTTCCCGTAGATGGCAAATGCTCACCATTCTG[TG]GACTGCCACCAGCGCATGGGGCCGGAGGATGAAGCCAC		
12556 IS	[TG]			ATTCTCTACTCGGTGACTGTAG	ctg22fin4	22
12557 I		S		GGCAGGATTTCCACAGAGGAGATATGCTGGGT		
12557 P	C	S		ATGACGTGGCAGACGTCTCAGGACGCAAGGY		
12557 P	T	S		CGCGCCGAGGATCTCAGGACGCAAGGY		
12557 T	C	S		TCCCCCTTGCGTCCTGAGACCCCAGCATATCTCCTCTGTGGAAATCCTGCCCT		
12557 T	T	S		TCCCCCTTGCGTCCTGAGATCCCAGCATATCTCCTCTGTGGAAATCCTGCCCT		
				AGGGAGATAGCAGACACTCAGAGGTGGGGTCCTGATAGAATTCCCCCTTGCGTCCTGAGA[CT]CCCAGCATATCTCCTCTGTGGAAATCCTGCCCTTAGGA		
12557 IS	[CT]			ATCACTAATTTTATTAATACAA		
12558 I		S		GTTCCAGAGCCACTGTGGCTTAAGTTCCTGTTTTA		
12558 P	A	S		CGCGCCGAGGTCAGTGAATTGTAGCTGGY		
12558 P	G	S		ATGACGTGGCAGACCCAGTGAATTGTAGCTGGY		
12558 T	A	S		GTGCCCAGCTACAATTCACTGAAAAACAGGAACTTAAGCCACAGTGGCTCTGGAACCA		
12558 T	G	S		GTGCCCAGCTACAATTCACTGGAAAACAGGAACTTAAGCCACAGTGGCTCTGGAACCA		
				CTCCTTTATCTTCAAAGCTGCCCCAGCCATACTTTGTGAGTGCCCAGCTACAATTCACTG[AG]AAAACAGGAACTTAAGCCACAGTGGCTCTGGAACCAGCT		
12558 IS	[AG]			TGAGAAAGGATGGGAAACTGT	ctg22fin4	22
12565 I		S		TGGGGCTTCATCTGCCCGCCCT		
12565 P	G	S		CGCGCCGAGGCCAATTCCGTGGGTGY		
12565 P	C	S		ATGACGTGGCAGACGCAATTCCGTGGGTGY		
12565 T	G	S		GAGCCACCCACGGAATTGGGGGCGGGCAGATGAAGCCCCATA		
12565 T	C	S		GAGCCACCCACGGAATTGCGGGCGGGCAGATGAAGCCCCATA		
				TTGGATCATCTTAAAGCAGAACAACATCTTAATGTCTGGTGGGAGCCACCCACGGAATTG[GC]GGGCGGGCAGATGAAGCCCCATAGCAGAATCATGCCCT		
12565 IS	[GC]			CGGACGCCCCTGTGGCCACACC	ctg22fin4	22
12580 I		A		GGGTAAAACTTTCTAAGTGGAAAGCAGAATAAACAGCCTTGTCAA		
12580 P	C	A		ATGACGTGGCAGACCTGGGCATTCTTCCTGY		
12580 P	T	A		CGCGCCGAGGTTGGGCATTCTTCCTGY		
12580 T	C	A		AAAGCAGGAAGAATGCCCAGTGACAAGGCTGTTTATTCTGCTTTCCACTTAGAAAGTTTTACCCTA		
12580 T	T	A		AAAGCAGGAAGAATGCCCAATGACAAGGCTGTTTATTCTGCTTTCCACTTAGAAAGTTTTACCCTA		

FIGURE 129E

				TTTGTTAGACAAACTAGGGTAAAACTTTCTAAGTGGAAAGCAGAATAAACAGCCTTGTCA[CT]TGGGCATTCTTCCTGCTTTGAGGCTAGAGGACCATTTCTG		
12580	IS	[CT]		GATGTGGGACAGAGGTAATG	ctg22fin4	22
12588	I		S	TGTGTGTTTCTGTGAGGGTGCTGCGTGTT		
12588	P	C	S	ATGACGTGGCAGACGTCTGTATCTGAGTGTGTGY		
12588	P	T	S	CGCGCCGAGGATCTGTATCTGAGTGTGTGTY		
12588	T	C	S	GGACACACACACTCAGATACAGACACACGCAGCACCCTCACAGAAACACACAAC		
12588	T	T	S	GGACACACACACTCAGATACAGATACACGCAGCACCCTCACAGAAACACACAAC		
				TGGACCCACAGACTCAGACCTTGGAGAACAGACACCTGGACACACACACTCAGATACAGA[CT]ACACGCAGCACCCTCACAGAAACACACAACGGAACCGG		
12588	IS	[CT]		GGTGCACCTGGACACACAGATG	ctg22fin4	22
12591	I		S	CGAAGAAAAGCATCATGAAGCCTAGAGAATTGGGGACTA		
12591	P	G	S	ATGACGTGGCAGACCGTAGCCTCTAGGAATGAY		
12591	P	A	S	CGCGCCGAGGTGTAGCCTCTAGGAATGAATY		
12591	T	G	S	TCAGATTCATTCCTAGAGGCTACGAGTCCCCAATTCTCTAGGCTTCATGATGCTTTTCTTCGAT		
12591	T	A	S	TCAGATTCATTCCTAGAGGCTACAAGTCCCCAATTCTCTAGGCTTCATGATGCTTTTCTTCGAT		
				GATCCCCAAATTCCATGACCCTAACACTCTGGGATTTTCAGATTCATTCCTAGAGGCTAC[GA]AGTCCCCAATTCTCTAGGCTTCATGATGCTTTTCTTCGAT		
12591	IS	[GA]		GAGGCTAGGATTTGAGGATC	ctg22fin4	22
12605	I		S	GGAGAAACACCATCAGAGGCTCCAAGTGAAGCT		
12605	P	C	S	ATGACGTGGCAGACGAGAACGACTCCAGCAY		
12605	P	T	S	CGCGCCGAGGAAGAACGACTCCAGCAY		
12605	T	C	S	TTTCTGCTGGAGTCGTTCTCGCTTCACTTGGAGCCTCTGATGGTGTTTCTCCAG		
12605	T	T	S	TTTCTGCTGGAGTCGTTCTTGCTTCACTTGGAGCCTCTGATGGTGTTTCTCCAG		
				GGGTGGCTTGGGTGTCAGGGTTGTAGTGTGATTCACCCCATTTTCTGCTGGAGTCGTTCT[CT]GCTTCACTTGGAGCCTCTGATGGTGTTTCTCCAGGATC		
12605	IS	[CT]		AGCCTAAAATTATAAATATCCT	ctg22fin4	22
12611	I		S	GAGCCTGGGTGCCACCACATCCCA		
12611	P	A	S	CGCGCCGAGGTCAGATGGTGTCCAGGY		
12611	P	G	S	ATGACGTGGCAGACCCAGATGGTGTCCAGGY		
12611	T	A	S	GTCTCCTGGACACCATCTGAGGGATGTGGTGGCACCCAGGCTCCA		
12611	T	G	S	GTCTCCTGGACACCATCTGGGGGATGTGGTGGCACCCAGGCTCCA		
				GGCCTTGTCGCAGTCCTCCAGCCCCACAAAGTCTCGCAGGGGTCTCCTGGACACCATCTG[AG]GGGATGTGGTGGCACCCAGGCTCCACCTCGTCTTCTC		
12611	IS	[AG]		TGTCTGCTTCTTCGGGCTAAATG	ctg22fin6	22
12615	I		A	CTCAGGCTCTGCGGCTGCACCTGA		
12615	P	C	A	ATGACGTGGCAGACCGACAGCTCCCCAAY		
12615	P	T	A	CGCGCCGAGGTGACAGCTCCCCAAGY		
12615	T	C	A	CTGCCTTGGGGAGCTGTCGCAGGTGCAGCCGCAGAGCCTGAGCA		
12615	T	T	A	CTGCCTTGGGGAGCTGTCACAGGTGCAGCCGCAGAGCCTGAGCA		
				GGTGCCAGGAAAGGCCGGACCCCCCTCAAGAAGAGTGCTCAGGCTCTGCGGCTGCACCTG[CT]GACAGCTCCCCAAGGCAGCCTCAGCCATCTGGGGTC		
12615	IS	[CT]		TCGGACGTACCGGCTGTGTGTGCA		
12623	I		S	TCTAGGAGACACACATCTGTTCCTGTAAAAAAAAAAAAAAAAAAAAGAAAAAAT		
12623	P	T	S	CGCGCCGAGGAGACTAATGTTCAGCCAAGY		
12623	P	C	S	ATGACGTGGCAGACGGACTAATGTTCAGCCAAGY		
12623	T	T	S	CTCTCTTGGCTGAACATTAGTCTTTTTTTCTTTTTTTTTTTTTTTTTTTTACAGGAACAGATGTGTGTCTCCTAGAAG		
12623	T	C	S	CTCTCTTGGCTGAACATTAGTCCTTTTTTCTTTTTTTTTTTTTTTTTTTTACAGGAACAGATGTGTGTCTCCTAGAAG		
				TTTAGGACCTGGAAGAGAAACCTCCTTCCTGGATCACCCTCTCTTGGCTGAACATTAGTC[TC]TTTTTTCTTTTTTTTTTTTTTTTTTTTACAGGAACAGATGTG		
12623	IS	[TC]		TGTCTCCTAGAAGTCTACA	ctg22fin4	22
12626	I		S	GTTTAATCCTCCAATCTCTTGAAGTGTTTCTCTCTTGGATATT		
12626	P	C	S	ATGACGTGGCAGACGTTGAATGTATTTCTGATAAATCCAY		
12626	P	T	S	CGCGCCGAGGATTGAATGTATTTCTGATAAATCCAY		
12626	T	C	S	GTACTGGATTTATCAGAAATACATTCAACATATCCAAGAGAGAAACACTTCAAGAGATTGGAGGATTAAACAA		
12626	T	T	S	GTACTGGATTTATCAGAAATACATTCAATATATCCAAGAGAGAAACACTTCAAGAGATTGGAGGATTAAACAA		
				GGAGAGTTAATGTTCACAGTTTCTTAAGAAATGTACTGGATTTATCAGAAATACATTCAA[CT]ATATCCAAGAGAGAAACACTTCAAGAGATTGGAGGATTAAA		
12626	IS	[CT]		CAAATGTGTATTTGTAAAC	ctg22fin9	22
12629	I		A	TGGGAATGTGAGCGCAAGCTGGCCA		
12629	P	C	A	ATGACGTGGCAGACCAGAACCCGTGGACAY		
12629	P	T	A	CGCGCCGAGGTAGAACCCGTGGACATAAY		
12629	T	C	A	ATGTTTATGTCCACGGGTTCTGGGCCAGCTTGCGCTCACATTCCCAGC		
12629	T	T	A	ATGTTTATGTCCACGGGTTCTAGGCCAGCTTGCGCTCACATTCCCAGC		
				CTGTGTGGGATCTTCTAATGTATGTTTAATTCATGCTGGGAATGTGAGCGCAAGCTGGCC[CT]AGAACCCGTGGACATAAACATCCCTCCAACCTAGGGACC		
12629	IS	[CT]		TTTTTGTCACACTCCCTAACC	ctg22fin5	22
12631	I		A	CCCAGCCTCCCAGGTCCAGCTGA		
12631	P	C	A	ATGACGTGGCAGACCGTGCGGCCGGY		
12631	P	T	A	CGCGCCGAGGTGTGCGGCCGGY		
12631	T	C	A	CTGCCCGGCCGCACGCAGCTGGACCTGGGAGGCTGGGCA		
12631	T	T	A	CTGCCCGGCCGCACACAGCTGGACCTGGGAGGCTGGGCA		
				AAGCAGCCCAAGGGGAACAGGTGACCTTGGCCTGTGTGCCCAGCCTCCCAGGTCCAGCTG[CT]GTGCGGCCGGGCAGCTGAGGATGCTGGGAGCACCTG		
12631	IS	[CT]		CTTGCAGGGCTCTGGGGGCAGCCC	ctg22fin4	22
12635	I		A	TGCTTGGAACTCGCCTGCAACGGGT		
12635	P	A	A	CGCGCCGAGGACAAAGCCATCTCACCTY		
12635	P	G	A	ATGACGTGGCAGACGCAAAGCCATCTCACCY		
12635	T	A	A	GTCTAGGTGAGATGGCTTTGTCCCGTTGCAGGCGAGTTCCAAGCACA		
12635	T	G	A	GTCTAGGTGAGATGGCTTTGCCCCGTTGCAGGCGAGTTCCAAGCACA		
				TACACATGTTCTCTGTGGAAACCATTTGGTTCTCTGTGCTTGGAACTCGCCTGCAACGGG[AG]CAAAGCCATCTCACCTAGACTGTTGTTATGAAGATTGAA		
12635	IS	[AG]		TTAGGTGATTCTGAGAGGCAT	ctg22fin5	22
12637	I		S	AGCTTTTGTGGAAGTTTTTGGCATCAATGTGGATCTTTCCT		
12637	P	G	S	CGCGCCGAGGCTGCAGTTCTCTTGACCY		
12637	P	C	S	ATGACGTGGCAGACGTGCAGTTCTCTTGACCY		
12637	T	G	S	CCTGGGTCAAGAGAACTGCAGGGAAAGATCCACATTGATGCCAAAAACTTCCACAAAAGCTCC		
12637	T	C	S	CCTGGGTCAAGAGAACTGCACGGAAAGATCCACATTGATGCCAAAAACTTCCACAAAAGCTCC		
				TAAGAACCTCAAACAACCAGCTGGGATAGAGATGCACAAGCCTGGGTCAAGAGAACTGCA[GC]GGAAAGATCCACATTGATGCCAAAAACTTCCACAAAAGC		
12637	IS	[GC]		TCCAGCAAGAGAAACAGCTCT	ctg22fin4	22
12638	I		A	ACGACTAAGTCAAAATATTCTTGATCAGACATACAAGTTGCAGA		
12638	P	C	A	ATGACGTGGCAGACCACCTTCCTCACCTTTGY		
12638	P	T	A	CGCGCCGAGGTACCTTCCTCACCTTTGCY		
12638	T	C	A	AATTGCAAAGGTGAGGAAGGTGCTGCAACTTGTATGTCTGATCAAGAATATTTTGACTTAGTCGTGA		
12638	T	T	A	AATTGCAAAGGTGAGGAAGGTACTGCAACTTGTATGTCTGATCAAGAATATTTTGACTTAGTCGTGA		
				AAGGGAAAAAAAGAATCACGACTAAGTCAAAATATTCTTGATCAGACATACAAGTTGCAG[CT]ACCTTCCTCACCTTTGCAATTAGGACTCATTCCCTTAGGG		
12638	IS	[CT]		ATTCTACTTTCTGCTCAAAT	ctg22fin6	22
12648	I		A	ACTCATTGTATTGCTCTTCTTCCTTTGTGATTTTTATTTGCTGT		
12648	P	C	A	ATGACGTGGCAGACCTCTCTGACGAGGTCTCY		
12648	P	A	A	CGCGCCGAGGATCTCTGACGAGGTCTCY		
12648	T	C	A	GCAGGAGACCTCGTCAGAGAGCAGCAAATAAAAATCACAAAGGAAGAAGAGCAATACAATGAGTAA		
12648	T	A	A	GCAGGAGACCTCGTCAGAGATCAGCAAATAAAAATCACAAAGGAAGAAGAGCAATACAATGAGTAA		
				AAGACCAACTCAGACTTACTCATTGTATTGCTCTTCTTCCTTTGTGATTTTTATTTGCTG[CA]TCTCTGACGAGGTCTCCTGCTATCCTCTGCAAAGCTGGTTT		
12648	IS	[CA]		TCAGGACACCCAGGGATTC	ctg22fin4	22
12678	I		A	GCTCCTGGTAAGATGCTGAGGGCCACTTGA		
12678	P	T	A	CGCGCCGAGGTGGGTGGAGCATGATY		
12678	P	C	A	ATGACGTGGCAGACCGGGTGGAGCATGAY		
12678	T	T	A	CAGGATCATGCTCCACCCACAAGTGGCCCTCAGCATCTTACCAGGAGCTC		
12678	T	C	A	CAGGATCATGCTCCACCCGCAAGTGGCCCTCAGCATCTTACCAGGAGCTC		

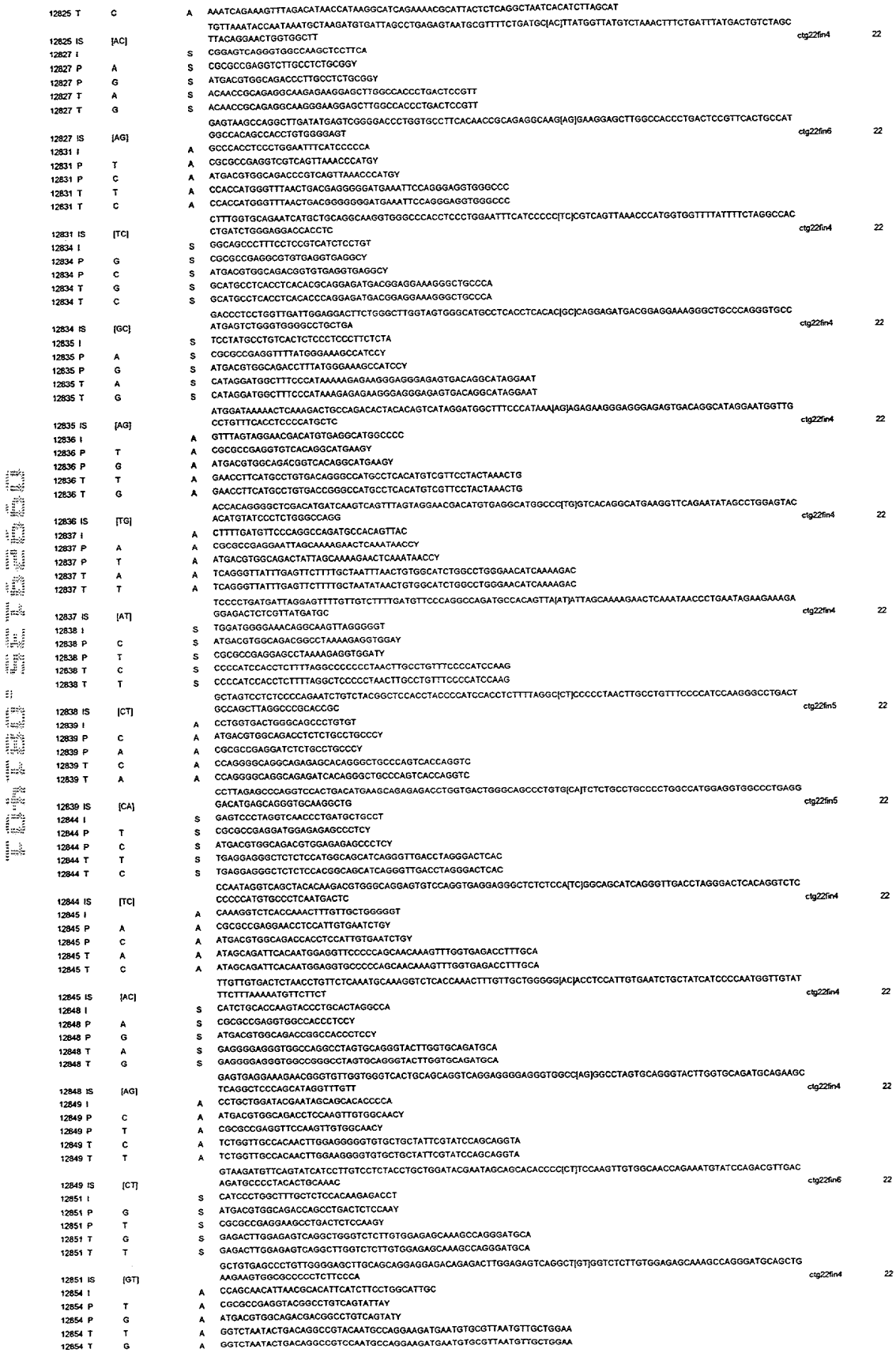
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FIGURE 129E

				ATGGAAACCTAAAGGACTTCCCTGTGAAGGAGCTCCTGGTAAGATGCTGAGGGCCACTTG[TC]GGGTGGAGCATGATCCTGGAGATTCTCATAAGACAGAG		
12678 IS	[TC]			TGGTCAGGAGACCCTGGGCGGC	ctg22fin4	22
12680 I		S		GGTGGACACCAGGCCAGGCTGGC		
12680 P	C	S		ATGACGTGGCAGACGTGCAGCGAGACTAAGY		
12680 P	A	S		CGCGCCGAGGTTGCAGCGAGACTAAGY		
12680 T	C	S		TGGGCTTAGTCTCGCTGCACCCAGCCTGGCCTGGTGTCCACCCG		
12680 T	A	S		TGGGCTTAGTCTCGCTGCAACCAGCCTGGCCTGGTGTCCACCCG		
				CCCTGCCTAGGGGGAGATCCCCTGTCCCCGCCTTCTCTGGTTGGGCTTAGTCTCGCTGCA[CA]CCAGCCTGGCCTGGTGTCCACCCGGTTCTCTCTGGTC		
12680 IS	[CA]			ACCTCGGCCTCTGACTTTCTTTC	ctg22fin4	22
12681 I		A		CATGCTCCATTTCCTTCGGGGCTTTTTCATACATCTTA		
12681 P	C	A		ATGACGTGGCAGACCTTTCTTTCGGTCAGACCY		
12681 P	T	A		CGCGCCGAGGTTTTCTTTCGGTCAGACCY		
12681 T	C	A		CAAGGGTCTGACCGAAAGAAAGAAGATGTATGAAAAAGCCCCGAAGGAAATGGAGCATGTT		
12681 T	T	A		CAAGGGTCTGACCGAAAGAAAAAAGATGTATGAAAAAGCCCCGAAGGAAATGGAGCATGTT		
				GAGTTCTGAATCTGGATCCAAAACATGCTCCATTTCCTTCGGGGCTTTTTCATACATCTT[CT]TTTCTTTCGGTCAGACCCTTGCTCGTCTCCACTGCAGGGA		
12681 IS	[CT]			AGTCGTAATATCCCTTCCTC	ctg22fin4	22
12686 I		S		AGTCTAGAGGGAGGACAGCAAAGCAAAGGAAGTCTTAA		
12686 P	A	S		CGCGCCGAGGTAACTGCTATCGCTATCAAAGY		
12686 P	G	S		ATGACGTGGCAGACCAACTGCTATCGCTATCAAY		
12686 T	A	S		CTCCCTTTGATAGCGATAGCAGTTATAAGACTTCCTTTGCTTTGCTGTCCTCCCTCTAGACTGT		
12686 T	G	S		CTCCCTTTGATAGCGATAGCAGTTGTAAGACTTCCTTTGCTTTGCTGTCCTCCCTCTAGACTGT		
				TTCTTCTCCTTCCATGATCCACTTGGGTCCTTTGCACTCCCTTTGATAGCGATAGCAGTT[AG]TAAGACTTCCTTTGCTTTGCTGTCCTCCCTCTAGACTGTA		
12686 IS	[AG]			GGCTACTTAGGGACAAGTAT	ctg22fin4	22
12695 I		S		CTCAGGCAGAGGTGTGAATTTGTCAAATAAAGGGGCAATATAT		
12695 P	T	S		CGCGCCGAGGATCAGCATAGATTGTGACAAY		
12695 P	C	S		ATGACGTGGCAGACGTCAGCATAGATTGTGACAAY		
12695 T	T	S		GTTCTTGTCACAATCTATGCTGATTATATTGCCCCTTTATTTGACAAATTCACACCTCTGCCTGAGGG		
12695 T	C	S		GTTCTTGTCACAATCTATGCTGACTATATTGCCCCTTTATTTGACAAATTCACACCTCTGCCTGAGGG		
				AACATGTTCATATGTTATTCTGACATTTACTTTTCAGGTTCTTGTCACAATCTATGCTGA[TC]TATATTGCCCCTTTATTTGACAAATTCACACCTCTGCCTGAG		
12695 IS	[TC]			GGAAAGCTTAAAGAAGAA	ctg22fin4	22
12701 I		S		CCAATAGGATGCAAAGACTTGATATGTTTCCACATGTTCTGGCT		
12701 P	C	S		ATGACGTGGCAGACGCTTCTCCACTTCTTCATGY		
12701 P	T	S		CGCGCCGAGGACTTCTCCACTTCTTCATGAY		
12701 T	C	S		ATTCTCATGAAGAAGTGGAGAAGCGCCAGAACATGTGGAAACATATCAAGTCTTTGCATCCTATTGGCC		
12701 T	T	S		ATTCTCATGAAGAAGTGGAGAAGTGCCAGAACATGTGGAAACATATCAAGTCTTTGCATCCTATTGGCC		
				AAGAGAAAGGATCTCGTTCTCCAACCGGCTGACATATATTCTCATGAAGAAGTGGAGAAG[CT]GCCAGAACATGTGGAAACATATCAAGTCTTTGCATCCTAT		
12701 IS	[CT]			TGGCCAGAAAGTGGATGAGC	ctg22fin7	22
12708 I		S		CCAGGACATCTCCGTGGAAGGTGGGTTTCA		
12708 P	G	S		ATGACGTGGCAGACCGCTTTGTTCCATCCCY		
12708 P	A	S		CGCGCCGAGGTGCTTTGTTCCATCCCY		
12708 T	G	S		TGGCGGGATGGAACAAAGCGGAAACCCACCTTCCACGGAGATGTCCTGGAT		
12708 T	A	S		TGGCGGGATGGAACAAAGCAGAAACCCACCTTCCACGGAGATGTCCTGGAT		
				AGTTCTCCAGGCTAAGCCCAGGGAGGGAGACGAGATGGTGATGGCGGGATGGAACAAAGC[GA]GAAACCCACCTTCCACGGAGATGTCCTGGATGGCAAA		
12708 IS	[GA]			GCGCAGGATGATGGTCCAGATCA	ctg22fin7	22
12723 I		S		CGGTTCTTAAGGGACAACAGTAAGCTCTTTAATTAAAATAAAATAAGAATACATTTAT		
12723 P	C	S		ATGACGTGGCAGACGTACACTAACTAGAAATCACAATACY		
12723 P	T	S		CGCGCCGAGGATACACTAACTAGAAATCACAATACY		
12723 T	C	S		GGTGGTATTGTGATTTCTAGTTAGTGTACTAAATGTATTCTTATTTTATTTTAATTAAAGAGCTTACTGTTGTCCCTTAAGAACCGAA		
12723 T	T	S		GGTGGTATTGTGATTTCTAGTTAGTGTATTAAATGTATTCTTATTTTATTTTAATTAAAGAGCTTACTGTTGTCCCTTAAGAACCGAA		
				TTTCATGTAAGTGAATTACCAATTCACGTAGTGGTGGTATTGTGATTTCTAGTTAGTGTA[CT]TAAATGTATTCTTATTTTATTTTAATTAAAGAGCTTACTGTT		
12723 IS	[CT]			GTCCCTTAAGAACCGAAT	ctg22fin4	22
12777 I		S		GGGCGACAGAGTGAGACTCCCTCTCAAAAAAAAAAAAAGAAGC		
12777 P	A	S		CGCGCCGAGGTAGTAGTATGAGCTCACTGCY		
12777 P	T	S		ATGACGTGGCAGACAAGTAGTATGAGCTCACTGCY		
12777 T	A	S		AACAGCAGTGAGCTCATACTACTACTTCTTCTTTTTTTTTTTTTGAGAGGGAGTCTCACTCTGTCGCCCAG		
12777 T	T	S		AACAGCAGTGAGCTCATACTACTACTTCTTCTTTTTTTTTTTTTGAGAGGGAGTCTCACTCTGTCGCCCAG		
				ATAAGTGCTTGCAGGTTCGATCCTGAGAAGGGAGAAAAACAGCAGTGAGCTCATACTACT[AT]CTTCTTTTTTTTTTTTTGAGAGGGAGTCTCACTCTGTCGC		
12777 IS	[AT]			CCAGGCTAGGAGTGCAGTGC	ctg22fin4	22
12808 I		S		GAATGAACCAAGTGAATGAATGAACTGAGTGAATGGATT		
12808 P	T	S		CGCGCCGAGGATGTAATGTCTTCAAAATTCCTGY		
12808 P	C	S		ATGACGTGGCAGACGTGTAATGTCTTCAAAATTCCTGY		
12808 T	T	S		TTTCCAGGAATTTTGAAGACATTACATATCCATTCACTCAGTTCATTCATTCACTTGGTTCATTCAT		
12808 T	C	S		TTTCCAGGAATTTTGAAGACATTACACATCCATTCACTCAGTTCATTCATTCACTTGGTTCATTCAT		
				AGTATTAATCTATAGAATAGAATAACTAGAATCTTTTCCAGGAATTTTGAAGACATTACA[TC]ATCCATTCACTCAGTTCATTCATTCACTTGGTTCATTCATTC		
12808 IS	[TC]			ATTCATTCAATATTTAAT	ctg22fin6	22
12809 I		S		TGTTTGAATCCACACTCTTGGTCTAACTCTTCTACCGTCTTTTTTTTTTTTTTTTA		
12809 P	A	S		CGCGCCGAGGTCCTATGCTTAACTCTCTTGTY		
12809 P	G	S		ATGACGTGGCAGACCCCTATGCTTAACTCTCTTGY		
12809 T	A	S		AGAGACAAGAGAGTTAAGCATAGGAAAAAAAAAAAAAAAAAAAAAGACGGTAGAAGAGTTAGACCAAGAGTGTGGATTCAAACAAA		
12809 T	G	S		AGAGACAAGAGAGTTAAGCATAGGGAAAAAAAAAAAAAAAAAAAAGACGGTAGAAGAGTTAGACCAAGAGTGTGGATTCAAACAAA		
				CAATGGCTGGGTAAATAAGAGGCAATAGAGAGACCGAGAGACAAGAGAGTTAAGCATAGG[AG]AAAAAAAAAAAAAAAAAGACGGTAGAAGAGTTAGACCAAG		
12809 IS	[AG]			AGTGTGGATTCAAACAAATAA	ctg22fin7	22
12811 I		S		CGATAGGTATGCTGGAAATGGTTTCAACTTTGTGACCATCATACA		
12811 P	G	S		ATGACGTGGCAGACCGTGGTTTGACTTGTTGY		
12811 P	A	S		CGCGCCGAGGTGTGGTTTGACTTGTTGGY		
12811 T	G	S		TTTACCAACAAGTCAAACCACGGTATGATGGTCACAAAGTTGAAACCATTTCCAGCATACCTATCGGG		
12811 T	A	S		TTTACCAACAAGTCAAACCACAGTATGATGGTCACAAAGTTGAAACCATTTCCAGCATACCTATCGGG		
				AAAATGTTTTCAGTGTTACGCATGTCCCCATTTTTCCTCTTTACCAACAAGTCAAACCAC[GA]GTATGATGGTCACAAAGTTGAAACCATTTCCAGCATACCTA		
12811 IS	[GA]			TCGGGGG	ctg22fin4	22
12819 I		A		TCTCATTCTGGGCACTGGGAGGCACATTTAAGAAAA		
12819 P	C	A		ATGACGTGGCAGACCCACAAATCAAAATAGTGTCATY		
12819 P	T	A		CGCGCCGAGGTCACAAATCAAAATAGTGTCATCY		
12819 T	C	A		CCATGATGACACTATTTTGATTTGTGGTTTCTTAAATGTGCCTCCCAGTGCCCAGAATGAGACC		
12819 T	T	A		CCATGATGACACTATTTTGATTTGTGATTTCTTAAATGTGCCTCCCAGTGCCCAGAATGAGACC		
				GTGTATGTTCTGGAGGGGGAATGGGTCTCATTCTGGGCACTGGGAGGCACATTTAAGAAA[CT]CACAAATCAAAATAGTGTCATCATGGGAGCTGCTGACG		
12819 IS	[CT]			ATTTGAAACTCATCAAACTGTA	ctg22fin4	22
12824 I		A		GCACCCTCAGAACCTCGGCACCCACT		
12824 P	A	A		CGCGCCGAGGACTGCCCACCGTCY		
12824 P	G	A		ATGACGTGGCAGACGCTGCCCACCGTY		
12824 T	A	A		TCTTGACGGTGGGCAGTGTGGTGCCGAGGTTCTGAGGGTGCGG		
12824 T	G	A		TCTTGACGGTGGGCAGCGTGGTGCCGAGGTTCTGAGGGTGCGG		
				GTACTGTGGCTGCGTGCCTGTCACCGTGCGGCCCCCGCACCCTCAGAACCTCGGCACCAC[AG]CTGCCCACCGTCAAGATGATCGTGGAGGTGCGCCTAC		
12824 IS	[AG]			CTGGCCCGCGGGTCAGAGTCTGT		
12825 I		A		GCTAAGATGTGATTAGCCTGAGAGTAATGCGTTTTCTGATGCT		
12825 P	A	A		CGCGCCGAGGATTATGGTTATGTCTAAACTTTCTGY		
12825 P	C	A		ATGACGTGGCAGACCTTATGGTTATGTCTAAACTTTCTGY		
12825 T	A	A		AAATCAGAAAGTTTAGACATAACCATAATGCATCAGAAAACGCATTACTCTCAGGCTAATCACATCTTAGCAT		

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FIGURE 129E



Filed: 10 April 2006 Docket No. 2006-0001

FIGURE 129E

				AATGTTTGGATCAGTGCCATGTTCCAGCAACATTAACGCACATTCATCTTCCTGGCATTG[TG]ACGGCCTGTCAGTATTAGACCAAAAACAAATTACAAATCC			
12854	IS	[TG]		TAGGAATTCAAAATAACATT			
12860	I		S	TCCTCAGGGACCCCCAAGAGCTGCC			
12860	P	A	S	CGCGCCGAGGTGGAGGGCGGGAY			
12860	P	C	S	ATGACGTGGCAGACGGGAGGGCGGGAY			
12860	T	A	S	TGGTTCCCGCCCTCCAGCAGCTCTTGGGGGTCCCTGAGGAAG			
12860	T	C	S	TGGTTCCCGCCCTCCCGCAGCTCTTGGGGGTCCCTGAGGAAG			
12860	IS	[AC]		GGCAAGTCCTGCCTCCTCCCCTTCTGCCTGGGGGTCCCCTTCTCCCTGGTTCCCGCCCTCC[AC]GCAGCTCTTGGGGGTCCCTGAGGAAGACCACCATGAC CGTGATGTTGTCGTGGGAGCCCC	ctg16829	1	KIAA0015
12868	I		S	CCCAGAGCCTCAGCCCAAGCACACTC			
12868	P	A	S	CGCGCCGAGGTGGATTCTACCAGCCAGY			
12868	P	C	S	ATGACGTGGCAGACGGGATTCTACCAGCCAY			
12868	T	A	S	GAGGCTGGCTGGTAGAATCCAAGTGTGCTTGGGCTGAGGCTCTGGGGA			
12868	T	C	S	GAGGCTGGCTGGTAGAATCCCAGTGTGCTTGGGCTGAGGCTCTGGGGA			
12868	IS	[AC]		CTATGGAGCAGTGGGCTAAGATCTTACTAGGGCAAAGGTGGAGGCTGGCTGGTAGAATCC[AC]AGTGTGCTTGGGCTGAGGCTCTGGGGAGCTATCCAGG CCAAAGTTTCACCTTGGAGACGG			
12875	I		S	CCCACACCCAGCCGCCCCGA			
12875	P	G	S	ATGACGTGGCAGACCTTGGACAGCAGCCY			
12875	P	A	S	CGCGCCGAGGTTTGGACAGCAGCCGY			
12875	T	G	S	CTACCGGCTGCTGTCCAAGCGGGGCGGCTGGGTGTGGGTG			
12875	T	A	S	CTACCGGCTGCTGTCCAAACGGGGCGGCTGGGTGTGGGTG			
12875	IS	[GA]		TGTGCTTGCAGTGTTGGTGAAGGGCCAGGTCACCACCAAGTACTACCGGCTGCTGTCCAA[GA]CGGGGCGGCTGGGTGTGGGTGCAGAGCTACGCCACC GTGGTGCACAACAGCCGCTCGTCC	ctg16253	1	
12877	I		A	GGCACTTCCTTACATTCCCATGGGCAGGAT			
12877	P	A	A	CGCGCCGAGGATCTAGTCCCACGGCY			
12877	P	C	A	ATGACGTGGCAGACCTCTAGTCCCACGGCY			
12877	T	A	A	TGTGGCCGTGGGACTAGATTCCTGCCCATGGGAATGTAAGGAAGTGCCGT			
12877	T	C	A	TGTGGCCGTGGGACTAGAGTCCTGCCCATGGGAATGTAAGGAAGTGCCGT			
12877	IS	[AC]		ACACAGAGACATGAGTCCCATATCCAGAAACGGCACTTCCTTACATTCCCATGGGCAGGA[AC]TCTAGTCCCACGGCCACATCTCACTGCAAGAGAGGCCG CAAGGTGCAGGCAGAAGGGAGG	ctg3454	17	
12879	I		S	GCCTCTAACTCTTGCAGAGATTGTCCAAAATCTTTAATGGTCAAATGT			
12879	P	C	S	ATGACGTGGCAGACGCCCAGGTCTGTTTCAY			
12879	P	T	S	CGCGCCGAGGACCCAGGTCTGTTTCAY			
12879	T	C	S	TGAGTGAAACAGACCTGGGCCATTTGACCATTAAAGATTTTGGACAATCTCTGCAAGAGTTAGAGGCAC			
12879	T	T	S	TGAGTGAAACAGACCTGGGTCATTTGACCATTAAAGATTTTGGACAATCTCTGCAAGAGTTAGAGGCAC			
12879	IS	[CT]		TAAATCCATATGCCCTTGAGTTTTTTCAATCCTTAGGAAAATGAGTGAAACAGACCTGGG[CT]CATTTGACCATTAAAGATTTTGGACAATCTCTGCAAGAGTT AGAGGCACCATGTGCCCCA	ctg16892	8	
12885	I		S	CAGCTCCAGCTTCAGAGGTGGACCGAT			
12885	P	C	S	ATGACGTGGCAGACGCTTCCCAAATGACACTTY			
12885	P	T	S	CGCGCCGAGGACTTCCCAAATGACACTTTY			
12885	T	C	S	ATGGAAAGTGTCATTTGGGAAGCTCGGTCCACCTCTGAAGCTGGAGCTGCT			
12885	T	T	S	ATGGAAAGTGTCATTTGGGAAGTTCGGTCCACCTCTGAAGCTGGAGCTGCT			
12885	IS	[CT]		GCCACCACTTGTCAGTCTAGCCCACCTGTCTCGATCACATGGAAAGTGTCATTTGGGAAG[CT]TCGGTCCACCTCTGAAGCTGGAGCTGCTGTCAGTCAAT GCTCAGAACCTCTTGGCAAAGC	ctg16892	8	
12886	I		S	CAGCAGGGTCCTCCCCAGGCCT			
12886	P	C	S	ATGACGTGGCAGACGCCCCTGGGTGCY			
12886	P	T	S	CGCGCCGAGGACCCCTGGGTGCY			
12886	T	C	S	CCCGGCACCCAGGGGCGGCCTGGGGAGGACCCTGCTGGA			
12886	T	T	S	CCCGGCACCCAGGGGTGGCCTGGGGAGGACCCTGCTGGA			
12886	IS	[CT]		TGCAGGGGGCAGGTCATAGTGGGCCTCAGGCCAAGGGGCTGCCCTCCCGGCACCCAGGGG[CT]GGCCTGGGGAGGACCCTGCTGGAGGCCAGACCCCA TGCTGTATCCTCCACTGGAACGACC			
12897	I		A	GCAGAACCACTTCCGTTAGCTAAGCTGCCTCT			
12897	P	A	A	CGCGCCGAGGAGATGAAACCTAAACTACTCCY			
12897	P	G	A	ATGACGTGGCAGACGGATGAAACCTAAACTACTCCY			
12897	T	A	A	TCGGGGAGTAGTTTAGGTTTCATCTGAGGCAGCTTAGCTAACGGAAGTGGTTCTGCAG			
12897	T	G	A	TCGGGGAGTAGTTTAGGTTTCATCCGAGGCAGCTTAGCTAACGGAAGTGGTTCTGCAG			
12897	IS	[AG]		GCCTTTGAGATGACCCCACCTGCGTCCCTGCAGAACCACTTCCGTTAGCTAAGCTGCCTC[AG]GATGAAACCTAAACTACTCCCCGATGCTGGCAGAAGAA TTTCATTGCAGTCAAAGCCCCT			
12909	I		A	GGCCTCTAGGCAGCCCGCCACT			
12909	P	A	A	CGCGCCGAGGAGCCCTACAACTCAAAGAY			
12909	P	G	A	ATGACGTGGCAGACGGCCCTACAACTCAAAGY			
12909	T	A	A	GTTTTCTTTGAGTTGTAGGGCTGTGGCGGGCTGCCTAGAGGCCCC			
12909	T	G	A	GTTTTCTTTGAGTTGTAGGGCCGTGGCGGGCTGCCTAGAGGCCCC			
12909	IS	[AG]		TTGGCGGAGAAGAAGGAGGGAGAATGAGCCCATGTCGGGGGCCTCTAGGCAGCCCGCCAC[AG]GCCCTACAACTCAAAGAAAACTCACCAGTCCCTGGTC ACTCGGATGTCCTTGGAGGCGGCT			
12913	I		A	CCCTGGCCCCACTGTCGGGCC			
12913	P	T	A	CGCGCCGAGGTCAGCTCAGCACGCY			
12913	P	A	A	ATGACGTGGCAGACACAGCTCAGCACGCY			
12913	T	T	A	GCCTGCGTGCTGAGCTGAGCCCGACAGTGGGGCCAGGGCT			
12913	T	A	A	GCCTGCGTGCTGAGCTGTGCCCGACAGTGGGGCCAGGGCT			
12913	IS	[TA]		GGACTTTTTGTCTCCTACCTCAGAGGCTCTCCCAAGCCAGCCCTGGCCCCACTGTCGGGC[TA]CAGCTCAGCACGCAGGCGCCGGGACCTTACCTGTCTG GCTGCCGACAGTCAGGTTCTGCT	ctg16105	5	
12915	I		A	GGGGTTCACGCCATTCTCCTGCCTCAT			
12915	P	C	A	CGCGCCGAGGCCCTCCCAAGTAGCTGY			
12915	P	G	A	ATGACGTGGCAGACGCCTCCCAAGTAGCTY			
12915	T	C	A	ATCCCAGCTACTTGGGAGGGTGAGGCAGGAGAATGGCGTGAACCCCAG			
12915	T	G	A	ATCCCAGCTACTTGGGAGGCTGAGGCAGGAGAATGGCGTGAACCCCAG			
12915	IS	[CG]		GGCGTGATCTCAGCTCACTGCAACCCCCGACTCTGGGGTTCACGCCATTCTCCTGCCTCA[CG]CCTCCCAAGTAGCTGGGATTACAGGTGCCCGCCACCAT GCCCAGCTAATTTTTTGTATTT	ctg16105	5	
12928	I		S	TCGGAAATGGCATAAAGCCTGTGGATATTCCT			
12928	P	T	S	CGCGCCGAGGAGTCAGCTTCAGAATCATAAAY			
12928	P	C	S	ATGACGTGGCAGACGGTCAGCTTCAGAATCATAAY			
12928	T	T	S	GTACTTTATGATTCTGAAGCTGACTGGAATATCCACAGGCTTTATGCCATTTCCGACA			
12928	T	C	S	GTACTTTATGATTCTGAAGCTGACCGGAATATCCACAGGCTTTATGCCATTTCCGACA			
12928	IS	[TC]		CGCATTTCCTACATTGCCAGTTTCTCTTAAGTATGAGTACTTTATGATTCTGAAGCTGAC[TC]GGAATATCCACAGGCTTTATGCCATTTCCGACATTTATAAG GTTTTTCTCCACTGTGAGT	ctg14391	11	
12931	I		A	GGCTGGATGCCGAGGTAAAAGTTCTTTTTGCTCTAAAAGAAT			
12931	P	A	A	CGCGCCGAGGAAAGGAACTAGGTCAAAAATCTY			
12931	P	G	A	ATGACGTGGCAGACGAAGGAACTAGGTCAAAAATCTY			
12931	T	A	A	GGACAGATTTTTGACCTAGTTCCTTTTTCTTTTAGAGCAAAAAGAACTTTTACCTCGGCATCCAGCCCA			
12931	T	G	A	GGACAGATTTTTGACCTAGTTCCTTCTTCTTTTAGAGCAAAAAGAACTTTTACCTCGGCATCCAGCCCA			
12931	IS	[AG]		TGTCAGTCTTTAGGGGTTGGGCTGGATGCCGAGGTAAAAGTTCTTTTTGCTCTAAAAGAA[AG]AAGGAACTAGGTCAAAAATCTGTCCGTGACCTATCAGTT ATTAATTTTTAAGGATGTTGC	ctg14391	11	TYMS
12964	I		A	CAGAAGGCCAGGTGAGAGTTGGGCCT			
12964	P	A	A	CGCGCCGAGGATGAGTCAGTAAACACACCY			
12964	P	G	A	ATGACGTGGCAGACGTGAGTCAGTAAACACACCY			
12964	T	A	A	TTGGGGTGTGTTTACTGACTCATGGCCCAACTCTCACCTGGCCTTCTGCT			
12964	T	G	A	TTGGGGTGTGTTTACTGACTCACGGCCCAACTCTCACCTGGCCTTCTGCT			

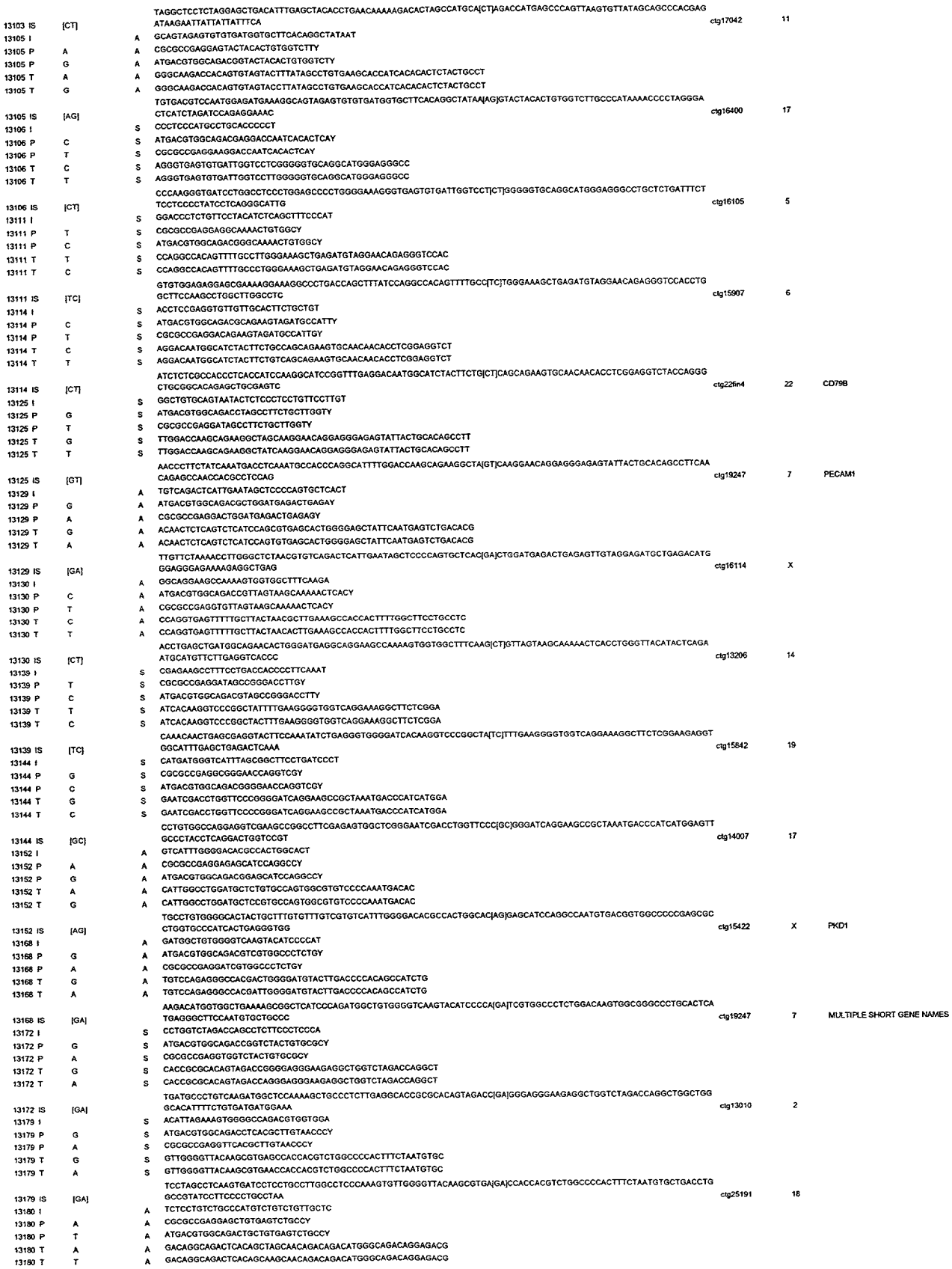
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FIGURE 129E

				CCCAGCGCCTGGAGAGCATCCGGCTCAAACAGGAGCAGAAGGCCAGGTGAGAGTTGGGCC[AG]TGAGTCAGTAAACACACCCCAAACACTTGCACTGTAC			
12964	IS	[AG]		CCACAGGACACGTCACCATGCAT	ctg13446	1	
12966	I		S	GAGGAGTTTTAGCTGCTGCTCACGAAGTGCTTTTA			
12966	P	A	S	CGCGCCGAGGTGGGGAATGGAGGGAY			
12966	P	G	S	ATGACGTGGCAGACCGGGGAATGGAGGGY			
12966	T	A	S	GTCCTCCCTCCATTCCCCAAAAAGCACTTCGTGAGCAGCAGCTAAAACTCCTCTG			
12966	T	G	S	GTCCTCCCTCCATTCCCCGAAAAGCACTTCGTGAGCAGCAGCTAAAACTCCTCTG			
				TTGACAATTTCCCTCAAGCACTTCTCACAGTGTTCCAGGTGAGTCCTCCCTCCATTCCCC[AG]AAAAGCACTTCGTGAGCAGCAGCTAAAACTCCTCTGCCT			
12966	IS	[AG]		TCTTGTCTGCTCACACTCAGG			
12971	I		S	GCCTGGCCTCCGGGACTCCCAT			
12971	P	G	S	CGCGCCGAGGCGCTGACCGCCTY			
12971	P	C	S	ATGACGTGGCAGACGGCTGACCGCCTCY			
12971	T	G	S	GGCAGAGGCGGTCAGCGTGGGAGTCCCGGAGGCCAGGCTG			
12971	T	C	S	GGCAGAGGCGGTCAGCCTGGGAGTCCCGGAGGCCAGGCTG			
				ACATGGACACGGACGGAGGGGGCTGGACCGTGAGTGTGGGGCTGGGCAGAGGCGGTCAGC[GC]TGGGAGTCCCGGAGGCCAGGCTGCACACCTGGTTG			
12971	IS	[GC]		TAGAACACACTCTGGAATTCTCTAT	ctg12414	1	FCN2
12973	I		A	GGCCGCCCACCCGCTCCT			
12973	P	G	A	ATGACGTGGCAGACGGGTGCAGCGGCY			
12973	P	C	A	CGCGCCGAGGCGGTGCAGCGGCY			
12973	T	G	A	GGAGGCCGCTGCACCCGGAGCGGGTGGGCGGCCCG			
12973	T	C	A	GGAGGCCGCTGCACCGGGAGCGGGTGGGCGGCCCG			
				GGGGCTGAGGGGAGGGGCCGCGGAGCCGCGGCTAAGGAACGCGGGCCGCCCACCCGCTCC[GC]GGTGCAGCGGCCTCCGCGCCGGGTTTTGGCGCCT			
12973	IS	[GC]		CCCGCGGGCGCCCCCCTCCTCACGGC	ctg15907	6	
12977	I		A	TCCAGCCTGGGCAACAACAGTGAATCTCTATCTCGAAATAATAATAATAATT			
12977	P	C	A	ATGACGTGGCAGACCATCATCATCATAAATAAAATTGCCY			
12977	P	A	A	CGCGCCGAGGAATCATCATCATAAATAAAATTGCCY			
12977	T	C	A	AAATGGCAATTTTATTTATTATGATGATGATTATTATTATTATTTCGAGATAGAGATTCACTGTTGTTGCCCAGGCTGGAGT			
12977	T	A	A	AAATGGCAATTTTATTTATTATGATGATGATTATTATTATTATTTCGAGATAGAGATTCACTGTTGTTGCCCAGGCTGGAGT			
				CCATTGCACTCCAGCCTGGGCAACAACAGTGAATCTCTATCTCGAAATAATAATAATAAT[CA]ATCATCATCATAAATAAAATTGCCATTTGATGCCACTTGCC			
12977	IS	[CA]		CTGGGGCTGATTTTTACAA	ctg25114	1	
12979	I		S	CTGCTGACCCTGCCCTGGGCTCA			
12979	P	G	S	ATGACGTGGCAGACCGGTGATGCTGCCY			
12979	P	A	S	CGCGCCGAGGTGGTGATGCTGCCGY			
12979	T	G	S	AGGCCGGCAGCATCACCGGAGCCCAGGGCAGGGTCAGCAGAG			
12979	T	A	S	AGGCCGGCAGCATCACCAGAGCCCAGGGCAGGGTCAGCAGAG			
				CGAGGGAGGAGGAGAGGCCCCAGGTGAACGGAGGGGCTTGTCCAGGCCGGCAGCATCACC[GA]GAGCCCAGGGCAGGGTCAGCAGAGCTGGCCGTAGG			
12979	IS	[GA]		GCCCTCCTCTCAGCCAGGACCAAGG	ctg1565	1	
12981	I		S	CTGCACAGTCAGAGCCACCCCATAAGGAT			
12981	P	T	S	CGCGCCGAGGAGGTGTAGTCTTTCAATGTTCY			
12981	P	G	S	ATGACGTGGCAGACCGGTGTAGTCTTTCAATGTY			
12981	T	T	S	CCTAGAACATTGAAAGACTACACCTTCCTTATGGGGTGGCTCTGACTGTGCAGCC			
12981	T	G	S	CCTAGAACATTGAAAGACTACACCGTCCTTATGGGGTGGCTCTGACTGTGCAGCC			
				TCCTTGGTGCCCCTTCCTTTTGCCTATTCAGGTTGCCCTAGAACATTGAAAGACTACACC[TG]TCCTTATGGGGTGGCTCTGACTGTGCAGCCTGGTGGAG			
12981	IS	[TG]		GGAGAGGAAAAAGCACCTATCA	ctg14747	2	
12987	I		S	CTGCCCTCCTCCCCCGGCGT			
12987	P	G	S	ATGACGTGGCAGACCGGCCGCTCTACCY			
12987	P	T	S	CGCGCCGAGGAGGCCGCTCTACCTY			
12987	T	G	S	CTGCAGGTAGAGCGGCCGCCGCCGGGGGAGGAGGGCAGCC			
12987	T	T	S	CTGCAGGTAGAGCGGCCTCGCCGGGGGAGGAGGGCAGCC			
				CGGGCCCCTGGACGGCGTCGCCAAGGAGCTGGGATCGCACTTGCTGCAGGTAGAGCGGCC[GT]CGCCGGGGGAGGAGGGCAGCCGCCGCAGGCTCCC			
12987	IS	[GT]		TTCCCACCCCGCCACCCCAGCCTCCA	ctg15907	6	
13014	I		A	CCACCACACTGAATCTCCCCTCCTCACAGTTC			
13014	P	T	A	CGCGCCGAGGTCCATGTAGACCCCTTGY			
13014	P	G	A	ATGACGTGGCAGACGCCATGTAGACCCCTTY			
13014	T	T	A	TCTTCAAGGGGTCTACATGGAAACTGTGAGGAGGGGAGATTCAGTGTGGTGGGG			
13014	T	G	A	TCTTCAAGGGGTCTACATGGCAACTGTGAGGAGGGGAGATTCAGTGTGGTGGGG			
				GCTGGGGAGTCCCTGCCACACTCAGTCCCCCACCACACTGAATCTCCCCTCCTCACAGTT[TG]CCATGTAGACCCCTTGAAGAGGGGAGGGGCCTAGGGA			
13014	IS	[TG]		GCCGCACCTTGTCATGTACCATC	ctg17036	17	GAPD
13017	I		S	AGTCTTTACTAGGATGGAGGCAGGGGATGCGT			
13017	P	T	S	CGCGCCGAGGAGGGCAGGTCCAGAY			
13017	P	C	S	ATGACGTGGCAGACGGGGCAGGTCCAGY			
13017	T	T	S	TTGCTCTGGACCTGCCCTCGCATCCCCTGCCTCCATCCTAGTAAAGACTCC			
13017	T	C	S	TTGCTCTGGACCTGCCCCCGCATCCCCTGCCTCCATCCTAGTAAAGACTCC			
				GATTCCAAGGAGTTCTGCTCATTCTAATGATGGCCCATTCTACTTGCTCTGGACCTGCCC[TC]CGCATCCCCTGCCTCCATCCTAGTAAAGACTCCTTGCTA			
13017	IS	[TC]		TGCTGCAGCTGTCTGTGTTAC	ctg17042	11	
13027	I		A	TGGAGGTGTTGTGGGGATGGTGATGGAGAT			
13027	P	G	A	ATGACGTGGCAGACGGGATGGAAATAACGGGY			
13027	P	A	A	CGCGCCGAGGAGGATGGAAATAACGGGTY			
13027	T	G	A	TGCCACCCGTTATTTCCATCCCTCTCCATCACCATCCCCACAACACCTCCAGA			
13027	T	A	A	TGCCACCCGTTATTTCCATCCTTCTCCATCACCATCCCCACAACACCTCCAGA			
				GAAGAACCAGGCATGGAAAGATGGGGAGCTCTGGAGGTGTTGTGGGGATGGTGATGGAGA[GA]GGATGGAAATAACGGGTGGCATTGGGTGGCAACATTT			
13027	IS	[GA]		GGGGAGAGATAATGAGGCAACTC	ctg15064	7	ATP1A2
13044	I		A	CCTTATCGATGCAAGATCAAGGCTCCTGGTTTTGCA			
13044	P	C	A	ATGACGTGGCAGACCCATCTGGTAAGAATCAATCCY			
13044	P	T	A	CGCGCCGAGGTCATCTGGTAAGAATCAATCCY			
13044	T	C	A	ACTGGGATTGATTCTTACCAGATGGGCAAAACCAGGAGCCTTGATCTTGCATCGATAAGGGC			
13044	T	T	A	ACTGGGATTGATTCTTACCAGATGAGCAAAACCAGGAGCCTTGATCTTGCATCGATAAGGGC			
				CCTGGTGTCTGATGGCAGCAGCCGCCCTTATCGATGCAAGATCAAGGCTCCTGGTTTTGC[CT]CATCTGGTAAGAATCAATCCCAGTAACTATAACTCCAAT			
13044	IS	[CT]		GAATTAAACCTGACCTTGGTT	ctg15071	9	
13053	I		S	AGATGCTTTACCGCCCTGCTCCCTGGA			
13053	P	G	S	ATGACGTGGCAGACCCCTGCCCCCAAGY			
13053	P	A	S	CGCGCCGAGGTCCTGCCCCCAAGY			
13053	T	G	S	AAAGCTTGGGGGCAGGGCCAGGGAGCAGGGCGGTAAAGCATCTGG			
13053	T	A	S	AAAGCTTGGGGGCAGGACCAGGGAGCAGGGCGGTAAAGCATCTGG			
				TCCTTATGGCTTCTTAGATGAGGGAGAACCACGTAGGGATGGAGAAAGCTTGGGGGCAGG[GA]CCAGGGAGCAGGGCGGTAAAGCATCTGGGGTACTGAC			
13053	IS	[GA]		ACATTGTGAATTAGCTACTGCTG	ctg17403	17	
13068	I		S	GCCCCGCCCCACCTGCCC			
13068	P	T	S	CGCGCCGAGGACACCACGCCCATTY			
13068	P	A	S	ATGACGTGGCAGACTCACCACGCCCATTY			
13068	T	T	S	GACCAATGGGCGTGGTGTGGCAGGTGGGGCGGGGCCA			
13068	T	A	S	GACCAATGGGCGTGGTGAGGCAGGTGGGGCGGGGCCA			
				ACCGAGCCTTAGAACCTAGGGCTGGGCTGGAGGCGGGGCTTGGGACCAATGGGCGTGGTG[TA]GGCAGGTGGGGCGGGGCCACGGCTGGGTGCAGAAG			
13068	IS	[TA]		CGGGTGGAGTTGGGTCTGGGGGAGC	ctg17207	19	
13103	I		S	GGGCTGCTATAACACTTAACTGGGCTCATGGTCTT			
13103	P	C	S	ATGACGTGGCAGACGTGCATGGCTAGTGTCY			
13103	P	T	S	CGCGCCGAGGATGCATGGCTAGTGTCTY			
13103	T	C	S	AAAAAGACACTAGCCATGCACAGACCATGAGCCCAGTTAAGTGTTATAGCAGCCCAC			
13103	T	T	S	AAAAAGACACTAGCCATGCATAGACCATGAGCCCAGTTAAGTGTTATAGCAGCCCAC			

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FIGURE 129E



			TAGGCTCCTCTAGGAGCTGACATTTGAGCTACACCTGAACAAAAAGACACTAGCCATGCA[CT]AGACCATGAGCCCAGTTAAGTGTTATAGCAGCCCACGAG				
13103 IS	[CT]		ATAAGAATTATTATTATTTCA		ctg17042	11	
13105 I		A	GCAGTAGAGTGTGTGATGGTGCTTCACAGGCTATAAT				
13105 P	A	A	CGCGCCGAGGAGTACTACACTGTGGTCTTY				
13105 P	G	A	ATGACGTGGCAGACGGTACTACACTGTGGTCTY				
13105 T	A	A	GGGCAAGACCACAGTGTAGTACTTTATAGCCTGTGAAGCACCATCACACACTCTACTGCCT				
13105 T	G	A	GGGCAAGACCACAGTGTAGTACCTTATAGCCTGTGAAGCACCATCACACACTCTACTGCCT				
			TGTGACGTCCAATGGAGATGAAAGGCAGTAGAGTGTGTGATGGTGCTTCACAGGCTATAA[AG]GTACTACACTGTGGTCTTGCCCATAAAACCCCTAGGGA				
13105 IS	[AG]		CTCATCTAGATCCAGAGGAAAC		ctg16400	17	
13106 I		S	CCCTCCCATGCCTGCACCCCCT				
13106 P	C	S	ATGACGTGGCAGACGAGGACCAATCACACTCAY				
13106 P	T	S	CGCGCCGAGGAAGGACCAATCACACTCAY				
13106 T	C	S	AGGGTGAGTGTGATTGGTCCTCGGGGGTGCAGGCATGGGAGGGCC				
13106 T	T	S	AGGGTGAGTGTGATTGGTCCTTGGGGGTGCAGGCATGGGAGGGCC				
			CCCAAGGGTGATCCTGGCCTCCCTGGAGCCCCTGGGGAAAGGGTGAGTGTGATTGGTCCT[CT]GGGGGTGCAGGCATGGGAGGGCCTGCTCTGATTTCT				
13106 IS	[CT]		TCCTCCCCTATCCTCAGGGCATTG		ctg16105	5	
13111 I		S	GGACCCTCTGTTCCTACATCTCAGCTTTCCCAT				
13111 P	T	S	CGCGCCGAGGAGGCAAAACTGTGGCY				
13111 P	C	S	ATGACGTGGCAGACGGGCAAAACTGTGGCY				
13111 T	T	S	CCAGGCCACAGTTTTGCCTTGGGAAAGCTGAGATGTAGGAACAGAGGGTCCAC				
13111 T	C	S	CCAGGCCACAGTTTTGCCCTGGGAAAGCTGAGATGTAGGAACAGAGGGTCCAC				
			GTGTGGAGAGGAGCGAAAAGGAAAGGCCCTGACCAGCTTTATCCAGGCCACAGTTTTGCC[TC]TGGGAAAGCTGAGATGTAGGAACAGAGGGTCCACCTG				
13111 IS	[TC]		GCTTCCAAGCCTGGCTTGGCCTC		ctg15907	6	
13114 I		S	ACCTCCGAGGTGTTGTTGCACTTCTGCTGT				
13114 P	C	S	ATGACGTGGCAGACGCAGAAGTAGATGCCATTY				
13114 P	T	S	CGCGCCGAGGACAGAAGTAGATGCCATTGY				
13114 T	C	S	AGGACAATGGCATCTACTTCTGCCAGCAGAAGTGCAACAACACCTCGGAGGTCT				
13114 T	T	S	AGGACAATGGCATCTACTTCTGTCAGCAGAAGTGCAACAACACCTCGGAGGTCT				
			ATCTCTCGCCACCCTCACCATCCAAGGCATCCGGTTTGAGGACAATGGCATCTACTTCTG[CT]CAGCAGAAGTGCAACAACACCTCGGAGGTCTACCAGGG				
13114 IS	[CT]		CTGCGGCACAGAGCTGCGAGTC		ctg22fin4	22	CD79B
13125 I		S	GGCTGTGCAGTAATACTCTCCCTCCTGTTCCTTGT				
13125 P	G	S	ATGACGTGGCAGACCTAGCCTTCTGCTTGGTY				
13125 P	T	S	CGCGCCGAGGATAGCCTTCTGCTTGGTY				
13125 T	G	S	TTGGACCAAGCAGAAGGCTAGCAAGGAACAGGAGGGAGAGTATTACTGCACAGCCTT				
13125 T	T	S	TTGGACCAAGCAGAAGGCTATCAAGGAACAGGAGGGAGAGTATTACTGCACAGCCTT				
			AACCCTTCTATCAAATGACCTCAAATGCCACCCAGGCATTTTGGACCAAGCAGAAGGCTA[GT]CAAGGAACAGGAGGGAGAGTATTACTGCACAGCCTTCAA				
13125 IS	[GT]		CAGAGCCAACCACGCCTCGAG		ctg19247	7	PECAM1
13129 I		A	TGTCAGACTCATTGAATAGCTCCCCAGTGCTCACT				
13129 P	G	A	ATGACGTGGCAGACGCTGGATGAGACTGAGAY				
13129 P	A	A	CGCGCCGAGGACTGGATGAGACTGAGAGY				
13129 T	G	A	ACAACTCTCAGTCTCATCCAGCGTGAGCACTGGGGAGCTATTCAATGAGTCTGACACG				
13129 T	A	A	ACAACTCTCAGTCTCATCCAGTGTGAGCACTGGGGAGCTATTCAATGAGTCTGACACG				
			TTGTTCTAAAACCTTGGGCTCTAACGTGTCAGACTCATTGAATAGCTCCCCAGTGCTCAC[GA]CTGGATGAGACTGAGAGTTGTAGGAGATGCTGAGACATG				
13129 IS	[GA]		GGAGGGAGAAAAGAGGCTGAG		ctg16114	X	
13130 I		A	GGCAGGAAGCCAAAAGTGGTGGCTTTCAAGA				
13130 P	C	A	ATGACGTGGCAGACCGTTAGTAAGCAAAAACTCACY				
13130 P	T	A	CGCGCCGAGGTGTTAGTAAGCAAAAACTCACY				
13130 T	C	A	CCAGGTGAGTTTTTGCTTACTAACGCTTGAAAGCCACCACTTTTGGCTTCCTGCCTC				
13130 T	T	A	CCAGGTGAGTTTTTGCTTACTAACACTTGAAAGCCACCACTTTTGGCTTCCTGCCTC				
			ACCTGAGCTGATGGCAGAACACTGGGATGAGGCAGGAAGCCAAAAGTGGTGGCTTTCAAG[CT]GTTAGTAAGCAAAAACTCACCTGGGTTACATACTCAGA				
13130 IS	[CT]		ATGCATGTTCTTGAGGTCACCC		ctg13206	14	
13139 I		S	CGAGAAGCCTTTCCTGACCACCCCTTCAAAT				
13139 P	T	S	CGCGCCGAGGATAGCCGGGACCTTGY				
13139 P	C	S	ATGACGTGGCAGACGTAGCCGGGACCTTY				
13139 T	T	S	ATCACAAGGTCCCGGCTATTTTGAAGGGGTGGTCAGGAAAGGCTTCTCGGA				
13139 T	C	S	ATCACAAGGTCCCGGCTACTTTGAAGGGGTGGTCAGGAAAGGCTTCTCGGA				
			CAAACAACTGAGCGAGGTACTTCCAAATATCTGAGGGTGGGGATCACAAGGTCCCGGCTA[TC]TTTGAAGGGGTGGTCAGGAAAGGCTTCTCGGAAGAGGT				
13139 IS	[TC]		GGCATTTGAGCTGAGACTCAAA		ctg15842	19	
13144 I		S	CATGATGGGTCATTTAGCGGCTTCCTGATCCCT				
13144 P	G	S	CGCGCCGAGGCGGGAACCAGGTCGY				
13144 P	C	S	ATGACGTGGCAGACGGGGAACCAGGTCGY				
13144 T	G	S	GAATCGACCTGGTTCCCGGGGATCAGGAAGCCGCTAAATGACCCATCATGGA				
13144 T	C	S	GAATCGACCTGGTTCCCCGGGATCAGGAAGCCGCTAAATGACCCATCATGGA				
			CCTGTGGCCAGGAGGTCGAAGCCGGCCTTCGAGAGTGGCTCGGGAATCGACCTGGTTCCC[GC]GGGATCAGGAAGCCGCTAAATGACCCATCATGGAGTT				
13144 IS	[GC]		GCCCTACCTCAGGACTGGTCCGT		ctg14007	17	
13152 I		A	GTCATTTGGGGACACGCCACTGGCACT				
13152 P	A	A	CGCGCCGAGGAGAGCATCCAGGCCY				
13152 P	G	A	ATGACGTGGCAGACGGAGCATCCAGGCCY				
13152 T	A	A	CATTGGCCTGGATGCTCTGTGCCAGTGGCGTGTCCCCAAATGACAC				
13152 T	G	A	CATTGGCCTGGATGCTCCGTGCCAGTGGCGTGTCCCCAAATGACAC				
			TGCCTGTGGGGCACTACTGCTTTGTGTTTGTCGTGTCATTTGGGGACACGCCACTGGCAC[AG]GAGCATCCAGGCCAATGTGACGGTGGCCCCCGAGCGC				
13152 IS	[AG]		CTGGTGCCCATCACTGAGGGTGG		ctg15422	X	PKD1
13168 I		A	GATGGCTGTGGGGTCAAGTACATCCCCAT				
13168 P	G	A	ATGACGTGGCAGACGTCGTGGCCCTCTGY				
13168 P	A	A	CGCGCCGAGGATCGTGGCCCTCTGY				
13168 T	G	A	TGTCCAGAGGGCCACGACTGGGGATGTACTTGACCCCACAGCCATCTG				
13168 T	A	A	TGTCCAGAGGGCCACGATTGGGGATGTACTTGACCCCACAGCCATCTG				
			AAGACATGGTGGCTGAAAAGCGGCTCATCCCAGATGGCTGTGGGGTCAAGTACATCCCCA[GA]TCGTGGCCCTCTGGACAAGTGGCGGGCCCTGCACTCA				
13168 IS	[GA]		TGAGGGCTTCCAATGTGCTGCCC		ctg19247	7	MULTIPLE SHORT GENE NAMES
13172 I		S	CCTGGTCTAGACCAGCCTCTTCCCTCCCA				
13172 P	G	S	ATGACGTGGCAGACCGGTCTACTGTGCGCY				
13172 P	A	S	CGCGCCGAGGTGGTCTACTGTGCGCY				
13172 T	G	S	CACCGCGCACAGTAGACCGGGGAGGGAAGAGGCTGGTCTAGACCAGGCT				
13172 T	A	S	CACCGCGCACAGTAGACCAGGGAGGGAAGAGGCTGGTCTAGACCAGGCT				
			TGATGCCCTGTCAAGATGGCTCCAAAAGCTGCCCTCTTGAGGCACCGCGCACAGTAGACC[GA]GGGAGGGAAGAGGCTGGTCTAGACCAGGCTGGCTGG				
13172 IS	[GA]		GCACATTTTCTGTGATGATGGAAA		ctg13010	2	
13179 I		S	ACATTAGAAAGTGGGGCCAGACGTGGTGGA				
13179 P	G	S	ATGACGTGGCAGACCTCACGCTTGTAACCCY				
13179 P	A	S	CGCGCCGAGGTTCACGCTTGTAACCCY				
13179 T	G	S	GTTGGGGTTACAAGCGTGAGCCACCACGTCTGGCCCCACTTTCTAATGTGC				
13179 T	A	S	GTTGGGGTTACAAGCGTGAACCACCACGTCTGGCCCCACTTTCTAATGTGC				
			TCCTAGCCTCAAGTGATCCTCCTGCCTTGGCCTCCCAAAGTGTTGGGGTTACAAGCGTGA[GA]CCACCACGTCTGGCCCCACTTTCTAATGTGCTGACCTG				
13179 IS	[GA]		GCCGTATCCTTCCCCTGCCTAA		ctg25191	18	
13180 I		A	TCTCCTGTCTGCCCATGTCTGTCTGTTGCTC				
13180 P	A	A	CGCGCCGAGGAGCTGTGAGTCTGCCY				
13180 P	T	A	ATGACGTGGCAGACTGCTGTGAGTCTGCCY				
13180 T	A	A	GACAGGCAGACTCACAGCTAGCAACAGACAGACATGGGCAGACAGGAGACG				
13180 T	T	A	GACAGGCAGACTCACAGCAAGCAACAGACAGACATGGGCAGACAGGAGACG				

FIGURE 129E

				GCGAGTGTGAGGGTGTGGGCTGCCCGCCCGTCTCCTGTCTGCCCATGTCTGTCTGTTGCT[AT]GCTGTGAGTCTGCCTGTCTGCATCTCCCTGTTGGTGG			
13180	IS	[AT]		GTGCCCGTATCTGTTGGTCTGTC	ctg3454	17	
13188	I		A	GGTGCTGGAAACATTGACTCTTCAGAGTTCAGGACAT			
13188	P	G	A	ATGACGTGGCAGACGAAGGTTCTGGCTCGY			
13188	P	C	A	CGCGCCGAGGCAAGGTTCTGGCTCGY			
13188	T	G	A	ACTGCGAGCCAGAACCTTCTGTCCTGAACTCTGAAGAGTCAATGTTTCCAGCACCCC			
13188	T	C	A	ACTGCGAGCCAGAACCTTGTGTCCTGAACTCTGAAGAGTCAATGTTTCCAGCACCCC			
				CTCTGAGCAATCAGTGTGGTTGGGGGTGCTGGAAACATTGACTCTTCAGAGTTCAGGACA[GC]AAGGTTCTGGCTCGCAGTCTCAATATTCCTGGGTTGTA			
13188	IS	[GC]		TGTGCACGTGGGACCTTCCTGG	ctg17403	17	
13189	I		A	GCAACTATGATGCCTCCTATATCACCAGCTCCCAA			
13189	P	T	A	CGCGCCGAGGTACAGAGTGATGACGATTGY			
13189	P	C	A	ATGACGTGGCAGACCACAGAGTGATGACGATTGY			
13189	T	T	A	GATCCAATCGTCATCACTCTGTATGGGAGCTGGTGATATAGGAGGCATCATAGTTGCAA			
13189	T	C	A	GATCCAATCGTCATCACTCTGTGTGGGAGCTGGTGATATAGGAGGCATCATAGTTGCAA			
				CTGACTTTCAGGACTCTGATCTCATTGCAACTATGATGCCTCCTATATCACCAGCTCCCA[TC]ACAGAGTGATGACGATTGGATCCCTGATATCCAGATAGAC			
13189	IS	[TC]		CCAAATGGCCTTTCATTTAA	ctg17036	17	
13192	I		S	TGTTTGGAAAGACTGCTATTCTGCTTTTCACTGTGCTTTTCATTTT			
13192	P	G	S	CGCGCCGAGGCTGTGTATGTGAGTTTGTGTY			
13192	P	C	S	ATGACGTGGCAGACGTGTGTATGTGAGTTTGTGTY			
13192	T	G	S	ACCCACACAAACTCACATACACAGAAATGAAAAGCACAGTGAAAAGCAGAATAGCAGTCTTTCCAAACAGA			
13192	T	C	S	ACCCACACAAACTCACATACACACAAATGAAAAGCACAGTGAAAAGCAGAATAGCAGTCTTTCCAAACAGA			
				ACTGTTAGCTGTAGGATCAGGGTCCACCCCCCGACACACCCACACAAACTCACATACAC[GC]AAATGAAAAGCACAGTGAAAAGCAGAATAGCAGTCTTTC			
13192	IS	[GC]		CAAACAGATTGAAAACCAAAA	ctg13740	5	
13198	I		A	CGGGCGGATTGGTAAGTGCCCCCT			
13198	P	C	A	CGCGCCGAGGCTCTAGCTAATGCTTGGGY			
13198	P	G	A	ATGACGTGGCAGACGTCTAGCTAATGCTTGGGY			
13198	T	C	A	TAAACCCAAGCATTAGCTAGAGGGGGGCACTTACCAATCCGCCCGAT			
13198	T	G	A	TAAACCCAAGCATTAGCTAGACGGGGGCACTTACCAATCCGCCCGAT			
				CGGCCCTCAGAGCCCTTGCCCGCTCGGGTATGAAGATCGGGCGGATTGGTAAGTGCCCCC[CG]TCTAGCTAATGCTTGGGTTTATTTTGAAGCATTGGCCC			
13198	IS	[CG]		CAAAAAGCACGTGCTGTGCCCA	ctg832	11	
13199	I		A	GATCTGTCCAAAGGATCCTCCCACCTGCATCTACA			
13199	P	T	A	CGCGCCGAGGTGAGTAGCTGGGACAACY			
13199	P	C	A	ATGACGTGGCAGACCGAGTAGCTGGGACAAY			
13199	T	T	A	CACTGTTGTCCCAGCTACTCAGTAGATGCAGGTGGGAGGATCCTTTGGACAGATCCG			
13199	T	C	A	CACTGTTGTCCCAGCTACTCGGTAGATGCAGGTGGGAGGATCCTTTGGACAGATCCG			
				TCACTGTAAATTTCGCCTCGTGGGCGGATCTGTCCAAAGGATCCTCCCACCTGCATCTAC[TC]GAGTAGCTGGGACAACAGTGTGTGCCACACCGGGCTTT			
13199	IS	[TC]		TTTTTTTTGTAGCGGGGAGTTT	ctg832	11	
13200	I		S	TCTAGCCCACCGTCTTCTCTAGAGGAAAAAACCCTTA			
13200	P	A	S	CGCGCCGAGGTTAGACAGGGTAACTGCAY			
13200	P	G	S	ATGACGTGGCAGACCTAGACAGGGTAACTGCAY			
13200	T	A	S	CAGTTGCAGTTACCCTGTCTAAAAGGGTTTTTTCCTCTAGAGAAGACGGTGGGCTAGATG			
13200	T	G	S	CAGTTGCAGTTACCCTGTCTAGAAGGGTTTTTTCCTCTAGAGAAGACGGTGGGCTAGATG			
				GACTTTTTTTCAGTGTCTTTTTACTTAATGAAAACGAGACAGTTGCAGTTACCCTGTCTA[AG]AAGGGTTTTTTCCTCTAGAGAAGACGGTGGGCTAGATGTC			
13200	IS	[AG]		AGAACCTGGATTTGTCCTGT	ctg22fin4	22	
13227	I		A	CAGCTTCATCCTGAAGACCAGCCAGTGCAA			
13227	P	C	A	ATGACGTGGCAGACCCCTGAAAGAGGTGTATGY			
13227	P	T	A	CGCGCCGAGGTCCTGAAAGAGGTGTATGGY			
13227	T	C	A	GAAGCCATACACCTCTTTCAGGGTGCACTGGCTGGTCTTCAGGATGAAGCTGCA			
13227	T	T	A	GAAGCCATACACCTCTTTCAGGATGCACTGGCTGGTCTTCAGGATGAAGCTGCA			
				CTCAGGTTGAGCTGGAGGTTCCCCAGCTCTGCAGCTTCATCCTGAAGACCAGCCAGTGCA[CT]CCTGAAAGAGGTGTATGGCTTCAACCCTGAGGGCAAAG			
13227	IS	[CT]		CCTTGCTGAAGAAAACCAAGAA	ctg22fin3	22	
13237	I		S	CCCGTGGCTCACGCTGTTCCCTA			
13237	P	G	S	ATGACGTGGCAGACCCTGTTAGCTTTCAGGTCY			
13237	P	A	S	CGCGCCGAGGTCTGTTAGCTTTCAGGTCY			
13237	T	G	S	GGAGGACCTGAAAGCTAACAGAGGGAACAGCGTGAGCCACGGGGT			
13237	T	A	S	GGAGGACCTGAAAGCTAACAGAAGGGAACAGCGTGAGCCACGGGGT			
				GGATGAGAGCCCAGGAGGGAGAAGTCCCTGTGAAACCAGGGAGGACCTGAAAGCTAACAG[GA]AGGGAACAGCGTGAGCCACGGGGTTGGGGGATTGGC			
13237	IS	[GA]		AATTGGAGGGGACGTAATGCGGGG	ctg17140	16	
13239	I		A	GAAGACCCAGACAGGACTGCAGAGGGCA			
13239	P	T	A	CGCGCCGAGGTCCAGAGTGGAGATCCY			
13239	P	C	A	ATGACGTGGCAGACCCCAGAGTGGAGATCCY			
13239	T	T	A	TGTGGGATCTCCACTCTGGAGCCCTCTGCAGTCCTGTCTGGGTCTTCAC			
13239	T	C	A	TGTGGGATCTCCACTCTGGGGCCCTCTGCAGTCCTGTCTGGGTCTTCAC			
				ACGCAAAAATAGCTCTTGCTTTGACTTAGGTGTGAAGACCCAGACAGGACTGCAGAGGGC[TC]CCAGAGTGGAGATCCCACATATTTCAAAAACATGCTTTT			
13239	IS	[TC]		CCAAACCCAGGCTATTCGGCA	ctg17140	16	F13A1
13241	I		S	GGCTGTCCTGAATCAGGTGCCCGATCCT			
13241	P	T	S	CGCGCCGAGGAGTCCAGCAGGCAGY			
13241	P	C	S	ATGACGTGGCAGACGGTCCAGCAGGCAY			
13241	T	T	S	GAGGCTGCCTGCTGGACTGGATCGGGCACCTGATTCAGGACAGCCTG			
13241	T	C	S	GAGGCTGCCTGCTGGACCGGATCGGGCACCTGATTCAGGACAGCCTG			
				AGCAGTACAACTCTTCCCGAGGTGACAAGTGTGGGGCCTTCCTGAGGCTGCCTGCTGGAC[TC]GGATCGGGCACCTGATTCAGGACAGCCTGGATGTAGG			
13241	IS	[TC]		CGAGGGGCCAGCCAGGCCAGACC	MULTIPLE	MULTIPLE	
13262	I		A	GAAAAATGGAGTTCACCTAGCTCCTGAGAGAAGGGATTTTTTTTTTTTC			
13262	P	T	A	CGCGCCGAGGTTAAAAGAAAGAGTTATATATACCACCY			
13262	P	A	A	ATGACGTGGCAGACATAAAAGAAAGAGTTATATATACCACCY			
13262	T	T	A	GCTGGGTGGTATATATAACTCTTTCTTTTAAAAAAAAAAAAAATCCCTTCTCTCAGGAGCTAGGTGAACTCCATTTTTCCC			
13262	T	A	A	GCTGGGTGGTATATATAACTCTTTCTTTTATAAAAAAAAAAAAATCCCTTCTCTCAGGAGCTAGGTGAACTCCATTTTTCCC			
				TTAGCCCAGAGGGAAAAATGGAGTTCACCTAGCTCCTGAGAGAAGGGATTTTTTTTTTTT[TA]TAAAAGAAAGAGTTATATATACCACCCAGCTTCTTTGTGCT			
13262	IS	[TA]		TGTTTTTGCTAAAAGTGTG	ctg15907	6	
13263	I		S	CTGGAGAGTCACTCTTCCCCACTGTTGGGAC			
13263	P	C	S	ATGACGTGGCAGACGGCAGCCTCCAGGY			
13263	P	A	S	CGCGCCGAGGTGCAGCCTCCAGGY			
13263	T	C	S	GGCCCCTGGAGGCTGCCTCCCAACAGTGGGGAAGAGTGACTCTCCAGGG			
13263	T	A	S	GGCCCCTGGAGGCTGCATCCCAACAGTGGGGAAGAGTGACTCTCCAGGG			
				GTGCTTGATACAGGAACAACATTTACAACTCATTCCAGATCCCAGGCCCCTGGAGGCTGC[CA]TCCCAACAGTGGGGAAGAGTGACTCTCCAGGGGTCCTA			
13263	IS	[CA]		GGCCTCAACTCCTCCCATAGAT	ctg2712	15	PIM1
13265	I		A	GTTCCCTTGTGGACCGGCACAAGGAGAT			
13265	P	A	A	CGCGCCGAGGACCTGAAGTCCAAGACTCY			
13265	P	C	A	ATGACGTGGCAGACCCCTGAAGTCCAAGACTY			
13265	T	A	A	CACTGAGTCTTGGACTTCAGGTTCTCCTTGTGCCGGTCCACAAGGGAACCA			
13265	T	C	A	CACTGAGTCTTGGACTTCAGGGTCTCCTTGTGCCGGTCCACAAGGGAACCA			
				AGGAAGCCAAGCAGAAAACGGTGGAGTGGGTTGGTTCCCTTGTGGACCGGCACAAGGAGA[AC]CCTGAAGTCCAAGACTCAGTGATTTAAGGATGACAGA			
13265	IS	[AC]		GATGTGCATGTGGGTATTGTTAG	ctg19085	10	MULTIPLE SHORT GENE NAMES
13273	I		A	TGCTGCCCCTTTGAAGCCATGCCCCT			
13273	P	G	A	ATGACGTGGCAGACGGCGTCCAGGCAAY			
13273	P	A	A	CGCGCCGAGGAGCGTCCAGGCAAY			
13273	T	G	A	CCTGTTGCCTGGACGCCGGGGCATGGCTTCAAAGGGCAGCACT			
13273	T	A	A	CCTGTTGCCTGGACGCTGGGGCATGGCTTCAAAGGGCAGCACT			

FIGURE 129E

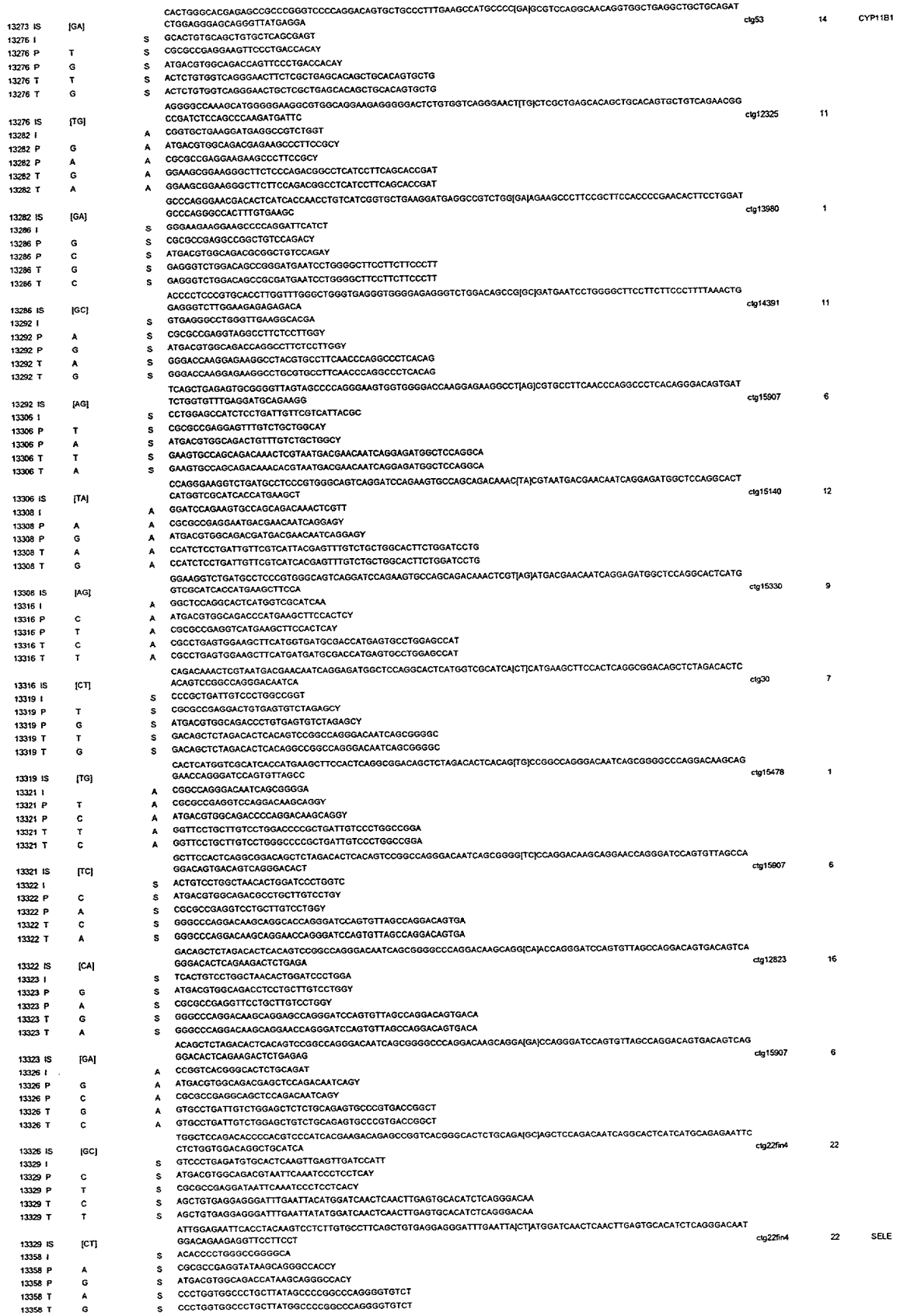

CACTGGGCACGAGAGCCGCCCGGGTCCCCAGGACAGTGCTGCCCTTTGAAGCCATGCCCC[GA]GCGTCCAGGCAACAGGTGGCTGAGGCTGCTGCAGAT
13273 IS [GA] CTGGAGGGAGCAGGGTTATGAGGA ctg53 14 CYP11B1
13275 I S GCACTGTGCAGCTGTGCTCAGCGAGT
13276 P T S CGCGCCGAGGAAGTTCCCTGACCACAY
13276 P G S ATGACGTGGCAGACCAGTTCCCTGACCACAY
13276 T T S ACTCTGTGGTCAGGGAACTTCTCGCTGAGCACAGCTGCACAGTGCTG
13276 T G S ACTCTGTGGTCAGGGAACTGCTCGCTGAGCACAGCTGCACAGTGCTG
AGGGGCCAAAGCATGGGGGAAGGCGTGGCAGGAAGAGGGGGACTCTGTGGTCAGGGAACT[TG]CTCGCTGAGCACAGCTGCACAGTGCTGTCAGAACGG
13276 IS [TG] CCGATCTCCAGCCCAAGATGATTC ctg12325 11
13282 I A CGGTGCTGAAGGATGAGGCCGTCTGGT
13282 P G A ATGACGTGGCAGACGAGAAGCCCTTCCGCY
13282 P A A CGCGCCGAGGAAGAAGCCCTTCCGCY
13282 T G A GGAAGCGGAAGGGCTTCTCCCAGACGGCCTCATCCTTCAGCACCGAT
13282 T A A GGAAGCGGAAGGGCTTCTTCCAGACGGCCTCATCCTTCAGCACCGAT
GCCCAGGGAACGACACTCATCACCAACCTGTCATCGGTGCTGAAGGATGAGGCCGTCTGG[GA]AGAAGCCCTTCCGCTTCCACCCCGAACACTTCCTGGAT
13282 IS [GA] GCCCAGGGCCACTTTGTGAAGC ctg13980 1
13286 I S GGGAAGAAGGAAGCCCCAGGATTCATCT
13286 P G S CGCGCCGAGGCCGGCTGTCCAGACY
13286 P C S ATGACGTGGCAGACGCGGCTGTCCAGAY
13286 T G S GAGGGTCTGGACAGCCGGGATGAATCCTGGGGCTTCCTTCTTCCCTT
13286 T C S GAGGGTCTGGACAGCCGCGATGAATCCTGGGGCTTCCTTCTTCCCTT
ACCCCTCCCGTGCACCTTGGTTTGGGCTGGGTGAGGGTGGGGAGAGGGTCTGGACAGCCG[GC]GATGAATCCTGGGGCTTCCTTCTTCCCTTTTAAACTG
13286 IS [GC] GAGGGTCTTGGAAGAGAGAGACA ctg14391 11
13292 I S GTGAGGGCCTGGGTTGAAGGCACGA
13292 P A S CGCGCCGAGGTAGGCCTTCTCCTTGGY
13292 P G S ATGACGTGGCAGACCAGGCCTTCTCCTTGGY
13292 T A S GGGACCAAGGAGAAGGCCTACGTGCCTTCAACCCAGGCCCTCACAG
13292 T G S GGGACCAAGGAGAAGGCCTGCGTGCCTTCAACCCAGGCCCTCACAG
TCAGCTGAGAGTGCGGGGTTAGTAGCCCCAGGGAAGTGGTGGGGACCAAGGAGAAGGCCT[AG]CGTGCCTTCAACCCAGGCCCTCACAGGGACAGTGAT
13292 IS [AG] TCTGGTGTTTGAGGATGCAGAAGG ctg15907 6
13306 I S CCTGGAGCCATCTCCTGATTGTTCGTCATTACGC
13306 P T S CGCGCCGAGGAGTTTGTCTGCTGGCAY
13306 P A S ATGACGTGGCAGACTGTTTGTCTGCTGGCY
13306 T T S GAAGTGCCAGCAGACAAACTCGTAATGACGAACAATCAGGAGATGGCTCCAGGCA
13306 T A S GAAGTGCCAGCAGACAAACACGTAATGACGAACAATCAGGAGATGGCTCCAGGCA
CCAGGGAAGGTCTGATGCCTCCCGTGGGCAGTCAGGATCCAGAAGTGCCAGCAGACAAAC[TA]CGTAATGACGAACAATCAGGAGATGGCTCCAGGCACT
13306 IS [TA] CATGGTCGCATCACCATGAAGCT ctg15140 12
13308 I A GGATCCAGAAGTGCCAGCAGACAAACTCGTT
13308 P A A CGCGCCGAGGAATGACGAACAATCAGGAGY
13308 P G A ATGACGTGGCAGACGATGACGAACAATCAGGAGY
13308 T A A CCATCTCCTGATTGTTCGTCATTACGAGTTTGTCTGCTGGCACTTCTGGATCCTG
13308 T G A CCATCTCCTGATTGTTCGTCATCACGAGTTTGTCTGCTGGCACTTCTGGATCCTG
GGAAGGTCTGATGCCTCCCGTGGGCAGTCAGGATCCAGAAGTGCCAGCAGACAAACTCGT[AG]ATGACGAACAATCAGGAGATGGCTCCAGGCACTCATG
13308 IS [AG] GTCGCATCACCATGAAGCTTCCA ctg15330 9
13316 I A GGCTCCAGGCACTCATGGTCGCATCAA
13316 P C A ATGACGTGGCAGACCCATGAAGCTTCCACTCY
13316 P T A CGCGCCGAGGTCATGAAGCTTCCACTCAY
13316 T C A CGCCTGAGTGGAAGCTTCATGGTGATGCGACCATGAGTGCCTGGAGCCAT
13316 T T A CGCCTGAGTGGAAGCTTCATGATGATGCGACCATGAGTGCCTGGAGCCAT
CAGACAAACTCGTAATGACGAACAATCAGGAGATGGCTCCAGGCACTCATGGTCGCATCA[CT]CATGAAGCTTCCACTCAGGCGGACAGCTCTAGACACTC
13316 IS [CT] ACAGTCCGGCCAGGGACAATCA ctg30 7
13319 I S CCCGCTGATTGTCCCTGGCCGGT
13319 P T S CGCGCCGAGGACTGTGAGTGTCTAGAGCY
13319 P G S ATGACGTGGCAGACCCTGTGAGTGTCTAGAGCY
13319 T T S GACAGCTCTAGACACTCACAGTCCGGCCAGGGACAATCAGCGGGGC
13319 T G S GACAGCTCTAGACACTCACAGGCCGGCCAGGGACAATCAGCGGGGC
CACTCATGGTCGCATCACCATGAAGCTTCCACTCAGGCGGACAGCTCTAGACACTCACAG[TG]CCGGCCAGGGACAATCAGCGGGGCCCAGGACAAGCAG
13319 IS [TG] GAACCAGGGATCCAGTGTTAGCC ctg15478 1
13321 I A CGGCCAGGGACAATCAGCGGGGA
13321 P T A CGCGCCGAGGTCCAGGACAAGCAGGY
13321 P C A ATGACGTGGCAGACCCCAGGACAAGCAGGY
13321 T T A GGTTCCTGCTTGTCCTGGACCCCGCTGATTGTCCCTGGCCGGA
13321 T C A GGTTCCTGCTTGTCCTGGGCCCCGCTGATTGTCCCTGGCCGGA
GCTTCCACTCAGGCGGACAGCTCTAGACACTCACAGTCCGGCCAGGGACAATCAGCGGGG[TC]CCAGGACAAGCAGGAACCAGGGATCCAGTGTTAGCCA
13321 IS [TC] GGACAGTGACAGTCAGGGACACT ctg15907 6
13322 I S ACTGTCCTGGCTAACACTGGATCCCTGGTC
13322 P C S ATGACGTGGCAGACGCCTGCTTGTCCTGY
13322 P A S CGCGCCGAGGTCCTGCTTGTCCTGGY
13322 T C S GGGCCCAGGACAAGCAGGCACCAGGGATCCAGTGTTAGCCAGGACAGTGA
13322 T A S GGGCCCAGGACAAGCAGGAACCAGGGATCCAGTGTTAGCCAGGACAGTGA
GACAGCTCTAGACACTCACAGTCCGGCCAGGGACAATCAGCGGGGCCCAGGACAAGCAGG[CA]ACCAGGGATCCAGTGTTAGCCAGGACAGTGACAGTCA
13322 IS [CA] GGGACACTCAGAAGACTCTGAGA ctg12823 16
13323 I S TCACTGTCCTGGCTAACACTGGATCCCTGGA
13323 P G S ATGACGTGGCAGACCTCCTGCTTGTCCTGGY
13323 P A S CGCGCCGAGGTTCCTGCTTGTCCTGGY
13323 T G S GGGCCCAGGACAAGCAGGAGCCAGGGATCCAGTGTTAGCCAGGACAGTGACA
13323 T A S GGGCCCAGGACAAGCAGGAACCAGGGATCCAGTGTTAGCCAGGACAGTGACA
ACAGCTCTAGACACTCACAGTCCGGCCAGGGACAATCAGCGGGGCCCAGGACAAGCAGGA[GA]CCAGGGATCCAGTGTTAGCCAGGACAGTGACAGTCAG
13323 IS [GA] GGACACTCAGAAGACTCTGAGAG ctg15907 6
13326 I A CCGGTCACGGGCACTCTGCAGAT
13326 P G A ATGACGTGGCAGACGAGCTCCAGACAATCAGY
13326 P C A CGCGCCGAGGCAGCTCCAGACAATCAGY
13326 T G A GTGCCTGATTGTCTGGAGCTCTCTGCAGAGTGCCCGTGACCGGCT
13326 T C A GTGCCTGATTGTCTGGAGCTGTCTGCAGAGTGCCCGTGACCGGCT
TGGCTCCAGACACCCCACGTCCCATCACGAAGACAGAGCCGGTCACGGGCACTCTGCAGA[GC]AGCTCCAGACAATCAGGCACTCATCATGCAGAGAATTC
13326 IS [GC] CTCTGGTGGACAGGCTGCATCA ctg22fin4 22
13329 I S GTCCCTGAGATGTGCACTCAAGTTGAGTTGATCCATT
13329 P C S ATGACGTGGCAGACGTAATTCAAATCCCTCCTCAY
13329 P T S CGCGCCGAGGATAATTCAAATCCCTCCTCACY
13329 T C S AGCTGTGAGGAGGGATTTGAATTACATGGATCAACTCAACTTGAGTGCACATCTCAGGGACAA
13329 T T S AGCTGTGAGGAGGGATTTGAATTATATGGATCAACTCAACTTGAGTGCACATCTCAGGGACAA
ATTGGAGAATTCACCTACAAGTCCTCTTGTGCCTTCAGCTGTGAGGAGGGATTTGAATTA[CT]ATGGATCAACTCAACTTGAGTGCACATCTCAGGGACAAT
13329 IS [CT] GGACAGAAGAGGTTCCTTCCT ctg22fin4 22 SELE
13358 I S ACACCCCTGGGCCGGGGCA
13358 P A S CGCGCCGAGGTATAAGCAGGGCCACCY
13358 P G S ATGACGTGGCAGACCATAAGCAGGGCCACY
13358 T A S CCCTGGTGGCCCTGCTTATAGCCCCGGCCCAGGGGTGTCT
13358 T G S CCCTGGTGGCCCTGCTTATGGCCCCGGCCCAGGGGTGTCT

FIGURE 129E

13358 IS	[AG]		ATTTTTGGAGGGAAGCACTCTCCTGCCCCAGCCTGGAGTGACCCTGGTGGCCCTGCTTAT[AG]GCCCCGGCCCAGGGGTGTCTGGCAGGAAGGGGTCTC CAGACCGTCTGCTCCAGGGTCCCC	ctg22fin4	22		
13377 I		A	CCTCCCCTCAGAGCCAGGCTTAGTCCT				
13377 P	A	A	CGCGCCGAGGAGTGTGCTGCCCAGY				
13377 P	G	A	ATGACGTGGCAGACGGTGTGCTGCCCAY				
13377 T	A	A	CAGGCTGGGCAGCACACTGGACTAAGCCTGGCTCTGAGGGGAGGGC				
13377 T	G	A	CAGGCTGGGCAGCACACCGGACTAAGCCTGGCTCTGAGGGGAGGGC				
13377 IS	[AG]		CCCCCGGCCTTCTCCCCCGTCATGGAGGCCTGGCCCTCCCCTCAGAGCCAGGCTTAGTCC[AG]GTGTGCTGCCCAGCCTGTCACTGGCCTGGCCAAGGA GGAGAGACAGGCCAGGGATTCTGG				
13379 I		A	TGGTGGCTCCTGGGGTGAGGTCTGT				
13379 P	G	A	ATGACGTGGCAGACGAGCTCTCTAATGGTCAGGY				
13379 P	A	A	CGCGCCGAGGAAGCTCTCTAATGGTCAGGY				
13379 T	G	A	ACCTCCTGACCATTAGAGAGCTCCAGACCTCACCCCAGGAGCCACCAGG				
13379 T	A	A	ACCTCCTGACCATTAGAGAGCTTCAGACCTCACCCCAGGAGCCACCAGG				
13379 IS	[GA]		CTCACCTGCCACAGTCCCTCTCCTTTCCCTCCTCCCTGGTGGCTCCTGGGGTGAGGTCTG[GA]AGCTCTCTAATGGTCAGGAGGTGGGAGTGGAGGCTGG GCTGTTTCTGACGATGCTGGTTT	ctg15665	20		
13399 I		S	GTACCAGGAGAACTCTGGGCAAAAGTCCCAGA				
13399 P	G	S	ATGACGTGGCAGACCCTCTGAGGTAAGGATGAAY				
13399 P	A	S	CGCGCCGAGGTCTCTGAGGTAAGGATGAAAY				
13399 T	G	S	GCCCTTTCATCCTTACCTCAGAGGCTGGGACTTTTGCCCAGAGTTCTCCTGGTACGT				
13399 T	A	S	GCCCTTTCATCCTTACCTCAGAGACTGGGACTTTTGCCCAGAGTTCTCCTGGTACGT				
13399 IS	[GA]		CGTGTGGAGTTGGCGGGAAGATAGGAACAAACACAAAGCCCTTTCATCCTTACCTCAGAG[GA]CTGGGACTTTTGCCCAGAGTTCTCCTGGTACGTCCTTT CTGCTTCTGCCTCAATAGTTTT	ctg15907	6		
13425 I		A	CCACCAAGAACCCTGGGAGGACAGAGTGT				
13425 P	G	A	ATGACGTGGCAGACGGTAATGATCCCAGACTTCY				
13425 P	C	A	CGCGCCGAGGCGTAATGATCCCAGACTTCY				
13425 T	G	A	AGAAGAAGTCTGGGATCATTACCCACTCTGTCCTCCCAGGGTTCTTGGTGGGC				
13425 T	C	A	AGAAGAAGTCTGGGATCATTACGCACTCTGTCCTCCCAGGGTTCTTGGTGGGC				
13425 IS	[GC]		TACCCACTGAGACACTGCATGGATATGGAAGCCCACCAAGAACCCTGGGAGGACAGAGTG[GC]GTAATGATCCCAGACTTCTTCTTGTTTAGATGATGAAG GACACAAATAGGGAATCACGGT	ctg15064	7		
13435 I		S	CCATCCCCGAAGGTCCAGTCGAAGAGGTAGA				
13435 P	A	S	CGCGCCGAGGTGGGCCGGGTTCY				
13435 P	G	S	ATGACGTGGCAGACCGGGCCGGGTTCY				
13435 T	A	S	CCGGGAACCCGGCCCACTACCTCTTCGACTGGACCTTCGGGGATGGCT				
13435 T	G	S	CCGGGAACCCGGCCCGCTACCTCTTCGACTGGACCTTCGGGGATGGCT				
13435 IS	[AG]		CCTGCATCCCCACGCAGCCTGACGCGCGGCTCACGGCCTACGTCACCGGGAACCCGGCCC[AG]CTACCTCTTCGACTGGACCTTCGGGGATGGCTCCTC CAACACGACCGTGCGGGGGTGCCC	ctg25099	7	PKD1	
13436 I		S	CGGTCGTGTTGGAGGAGCCATCCCCT				
13436 P	C	S	ATGACGTGGCAGACGAAGGTCCAGTCGAAGAY				
13436 P	T	S	CGCGCCGAGGAAAGGTCCAGTCGAAGAY				
13436 T	C	S	TACCTCTTCGACTGGACCTTCGGGGATGGCTCCTCCAACACGACCGTG				
13436 T	T	S	TACCTCTTCGACTGGACCTTTGGGGATGGCTCCTCCAACACGACCGTG				
13436 IS	[CT]		CGCGCGGCTCACGGCCTACGTCACCGGGAACCCGGCCCACTACCTCTTCGACTGGACCTT[CT]GGGGATGGCTCCTCCAACACGACCGTGCGGGGGTGC CCGACGGTGACACACAACTTCACG	ctg15424	2	PKD1	
13437 I		S	CCGTCGGGCACCCCCGCAA				
13437 P	G	S	ATGACGTGGCAGACCGGTCGTGTTGGAGGY				
13437 P	A	S	CGCGCCGAGGTGGTCGTGTTGGAGGY				
13437 T	G	S	GGCTCCTCCAACACGACCGTGCGGGGGTGCCCGACGGTG				
13437 T	A	S	GGCTCCTCCAACACGACCATGCGGGGGTGCCCGACGGTG				
13437 IS	[GA]		GGGAACCCGGCCCACTACCTCTTCGACTGGACCTTCGGGGATGGCTCCTCCAACACGACC[GA]TGCGGGGGTGCCCGACGGTGACACACAACTTCACGC GGAGCGGCACGTTCCCCCTGGCGC				PKD1
13438 I		A	GTGCAGCTCGGGGACGAGGCCA				
13438 P	T	A	CGCGCCGAGGTGGCTGGTGGCATY				
13438 P	C	A	ATGACGTGGCAGACCGGCTGGTGGCAY				
13438 T	T	A	GCACATGCCACCAGCCAGGCCTCGTCCCCGAGCTGCACAA				
13438 T	C	A	GCACATGCCACCAGCCGGGCCTCGTCCCCGAGCTGCACAA				
13438 IS	[TC]		GAGGTGGGCAACGTCACCCTGCAGCCAGAGAGGCAGTTTGTGCAGCTCGGGGACGAGGCC[TC]GGCTGGTGGCATGTGCCTGGCCCCCGTTCCCCTACC GCTACACCTGGGACTTTGGCACCG	ctg13297	17	PKD1	
13440 I		S	GGTAGATGAACGTCACCTCAGGGCCCCA				
13440 P	A	S	CGCGCCGAGGTGGCACGGGTGGY				
13440 P	G	S	ATGACGTGGCAGACCGGCACGGGTGGY				
13440 T	A	S	GCCCCCACCCGTGCCAGGGGCCCTGAGGTGACGTTCATCTACCGA				
13440 T	G	S	GCCCCCACCCGTGCCGGGGGCCCTGAGGTGACGTTCATCTACCGA				
13440 IS	[AG]		CCGTTCCCCTACCGCTACACCTGGGACTTTGGCACCGAGGAAGCCGCCCCCACCCGTGCC[AG]GGGGCCCTGAGGTGACGTTCATCTACCGAGACCCAG GCTCCTATCTTGTGACAGTCACCG	ctg15064	7	PKD1	
13442 I		S	CACGCTCCCATTCAGGGGCACCACA				
13442 P	G	S	ATGACGTGGCAGACCGTGCGGCTTGCY				
13442 P	A	S	CGCGCCGAGGTGTGCGGCTTGCAY				
13442 T	G	S	TCAATGCAAGCCGCACGGTGGTGCCCCTGAATGGGAGCGTGAG				
13442 T	A	S	TCAATGCAAGCCGCACAGTGGTGCCCCTGAATGGGAGCGTGAG				
13442 IS	[GA]		CTGGCTCAATGTGACGGTGAAGCGGCGCGTGCGGGGGCTCGTCGTCAATGCAAGCCGCAC[GA]GTGGTGCCCCTGAATGGGAGCGTGAGCTTCAGCACG TCGCTGGAGGCCGGCAGTGATGTG	ctg16820	16	PKD1	
13443 I		A	CGGTGGTGCCCCTGAATGGGAGCT				
13443 P	G	A	ATGACGTGGCAGACGTGAGCTTCAGCACGY				
13443 P	A	A	CGCGCCGAGGATGAGCTTCAGCACGTY				
13443 T	G	A	AGCGACGTGCTGAAGCTCACGCTCCCATTCAGGGGCACCACCGTG				
13443 T	A	A	AGCGACGTGCTGAAGCTCATGCTCCCATTCAGGGGCACCACCGTG				
13443 IS	[GA]		CGGCGCGTGCGGGGGCTCGTCGTCAATGCAAGCCGCACGGTGGTGCCCCTGAATGGGAGC[GA]TGAGCTTCAGCACGTCGCTGGAGGCCGGCAGTGAT GTGCGCTATTCCTGGGTGCTCTGTG	ctg13010	2	PKD1	
13451 I		S	GTGGTGCTGTTGAAATCCTGGGGAGAAGAGCA				
13451 P	G	S	ATGACGTGGCAGACCCAGGAAGGATGGGTY				
13451 P	A	S	CGCGCCGAGGTCAGGAAGGATGGGTCY				
13451 T	G	S	AACTGACCCATCCTTCCTGGGCTCTTCTCCCCAGGATTTCAACAGCACCACAG				
13451 T	A	S	AACTGACCCATCCTTCCTGAGCTCTTCTCCCCAGGATTTCAACAGCACCACAG				
13451 IS	[GA]		CTCAGGCCCAAGTCAGGGTTACAGCTAGCCTCCCGGTAAACAACTGACCCATCCTTCCTG[GA]GCTCTTCTCCCCAGGATTTCAACAGCACCACAGAAATAG CCATTTTGCTCATGGTTATTT	ctg22fin6	22		
13460 I		A	GCACAGGCCAACTGCAGAGGCCCT				
13460 P	C	A	ATGACGTGGCAGACCTAACACCACAGCTGGY				
13460 P	A	A	CGCGCCGAGGATAACACCACAGCTGGY				
13460 T	C	A	TTGGCCAGCTGTGGTGTTAGGGGCCTCTGCAGTTGGCCTGTGCCC				
13460 T	A	A	TTGGCCAGCTGTGGTGTTATGGGCCTCTGCAGTTGGCCTGTGCCC				
13460 IS	[CA]		CCTGTGGCTCCTCCCCAGTTCCAGGCACCACAGATGGGCACAGGCCAACTGCAGAGGCCC[CA]TAACACCACAGCTGGCCAAGTGCCTACTACAGAAGTT GTGGGTACTACACCTGGTCAGGC	ctg22fin10	22	SILV	
13468 I		S	CCAGTGTGTACATTGTACACATTTAAATGACTCACGAGAATGAAGTTTTTTTCAAATAA				
13468 P	A	S	CGCGCCGAGGTATTAAGATCACACCACCTTGY				
13468 P	G	S	ATGACGTGGCAGACCATTAAGATCACACCACCTTY				
13468 T	A	S	ACAACAAGGTGGTGTGATCTTAATATATATTTGAAAAAAACTTCATTCTCGTGAGTCATTTAAATGTGTACAATGTACACACTGGTA				
13468 T	G	S	ACAACAAGGTGGTGTGATCTTAATGTATTTGAAAAAAACTTCATTCTCGTGAGTCATTTAAATGTGTACAATGTACACACTGGTA				

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FIGURE 129E

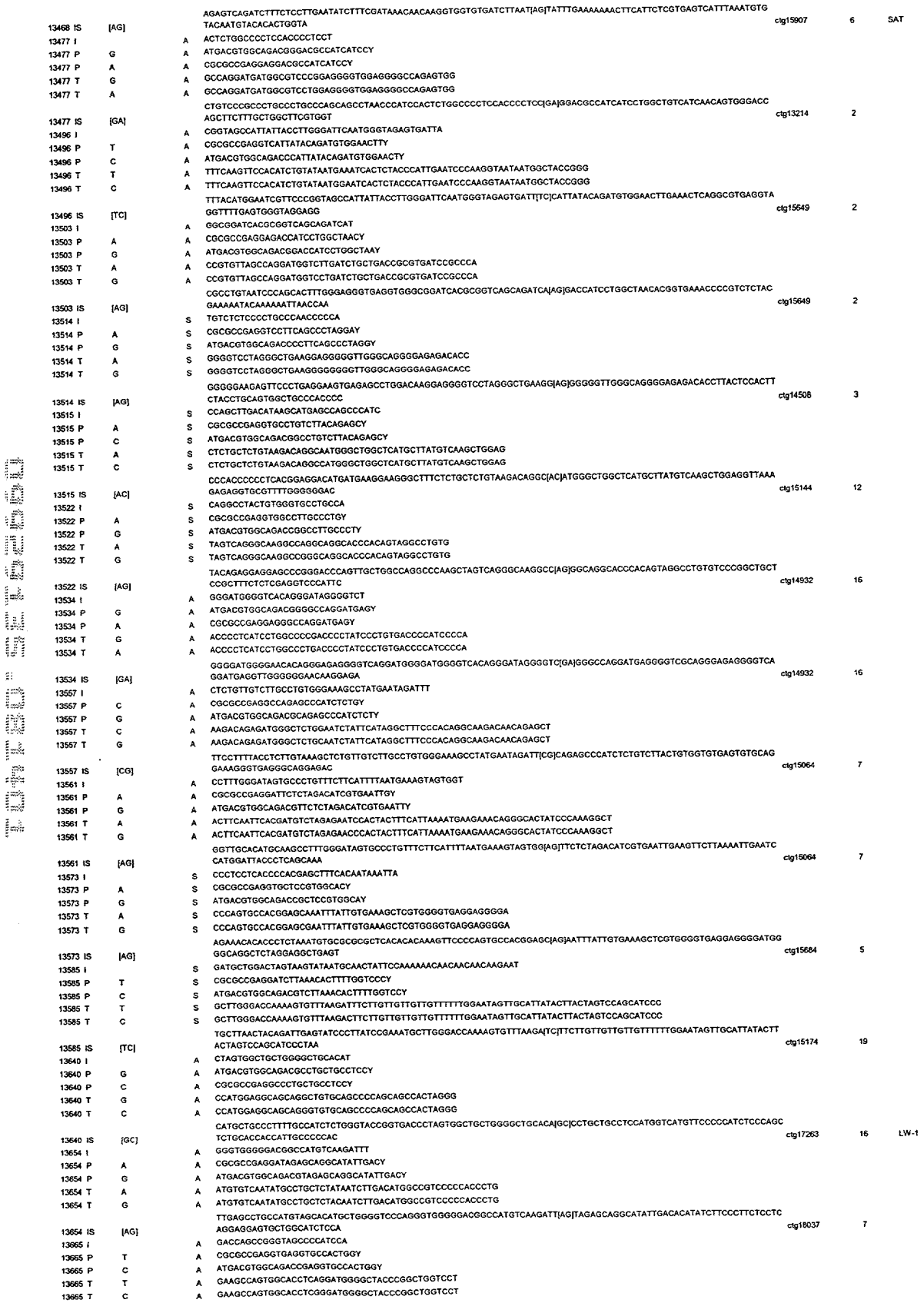

AGAGTCAGATCTTTCTCCTTGAATATCTTTCGATAAACAACAAGGTGGTGTGATCTTAAT[AG]TATTTGAAAAAAACTTCATTCTCGTGAGTCATTTAAATGTG
13468 IS [AG] TACAATGTACACACTGGTA ctg15907 6 SAT
13477 I A ACTCTGGCCCCTCCACCCCTCCT
13477 P G A ATGACGTGGCAGACGGGACGCCATCATCCY
13477 P A A CGCGCCGAGGAGGACGCCATCATCCY
13477 T G A GCCAGGATGATGGCGTCCCGGAGGGGTGGAGGGGCCAGAGTGG
13477 T A A GCCAGGATGATGGCGTCCTGGAGGGGTGGAGGGGCCAGAGTGG
CTGTCCCGCCCTGCCCTGCCCAGCAGCCTAACCCATCCACTCTGGCCCCTCCACCCCTCC[GA]GGACGCCATCATCCTGGCTGTCATCAACAGTGGGACC
13477 IS [GA] AGCTTCTTTGCTGGCTTCGTGGT ctg13214 2
13496 I A CGGTAGCCATTATTACCTTGGGATTCAATGGGTAGAGTGATTA
13496 P T A CGCGCCGAGGTCATTATACAGATGTGGAACTTY
13496 P C A ATGACGTGGCAGACCCATTATACAGATGTGGAACTY
13496 T T A TTTCAAGTTCCACATCTGTATAATGAAATCACTCTACCCATTGAATCCCAAGGTAATAATGGCTACCGGG
13496 T C A TTTCAAGTTCCACATCTGTATAATGGAATCACTCTACCCATTGAATCCCAAGGTAATAATGGCTACCGGG
TTTACATGGAATCGTTCCCGGTAGCCATTATTACCTTGGGATTCAATGGGTAGAGTGATT[TC]CATTATACAGATGTGGAACTTGAAACTCAGGCGTGAGGTA
13496 IS [TC] GGTTTTGAGTGGGTAGGAGG ctg15649 2
13503 I A GGCGGATCACGCGGTCAGCAGATCAT
13503 P A A CGCGCCGAGGAGACCATCCTGGCTAACY
13503 P G A ATGACGTGGCAGACGGACCATCCTGGCTAAY
13503 T A A CCGTGTTAGCCAGGATGGTCTTGATCTGCTGACCGCGTGATCCGCCCA
13503 T G A CCGTGTTAGCCAGGATGGTCCTGATCTGCTGACCGCGTGATCCGCCCA
CGCCTGTAATCCCAGCACTTTGGGAGGGTGAGGTGGGCGGATCACGCGGTCAGCAGATCA[AG]GACCATCCTGGCTAACACGGTGAAACCCCGTCTCTAC
13503 IS [AG] GAAAAATACAAAAAATTAACCAA ctg15649 2
13514 I S TGTCTCTCCCCTGCCCAACCCCCA
13514 P A S CGCGCCGAGGTCCTTCAGCCCTAGGAY
13514 P G S ATGACGTGGCAGACCCCTTCAGCCCTAGGY
13514 T A S GGGGTCCTAGGGCTGAAGGAGGGGGTTGGGCAGGGGAGAGACACC
13514 T G S GGGGTCCTAGGGCTGAAGGGGGGGGTTGGGCAGGGGAGAGACACC
GGGGGAAGAGTTCCCTGAGGAAGTGAGAGCCTGGACAAGGAGGGGTCCTAGGGCTGAAGG[AG]GGGGGTTGGGCAGGGGAGAGACACCTTACTCCACTT
13514 IS [AG] CTACCTGCAGTGGCTGCCCACCCC ctg14508 3
13515 I S CCAGCTTGACATAAGCATGAGCCAGCCCATC
13515 P A S CGCGCCGAGGTGCCTGTCTTACAGAGCY
13515 P C S ATGACGTGGCAGACGGCCTGTCTTACAGAGCY
13515 T A S CTCTGCTCTGTAAGACAGGCAATGGGCTGGCTCATGCTTATGTCAAGCTGGAG
13515 T C S CTCTGCTCTGTAAGACAGGCCATGGGCTGGCTCATGCTTATGTCAAGCTGGAG
CCCACCCCCCTCACGGAGGACATGATGAAGGAAGGGCTTTCTCTGCTCTGTAAGACAGGC[AC]ATGGGCTGGCTCATGCTTATGTCAAGCTGGAGGTTAAA
13515 IS [AC] GAGAGGTGCGTTTTGGGGGGAC ctg15144 12
13522 I S CAGGCCTACTGTGGGTGCCTGCCA
13522 P A S CGCGCCGAGGTGGCCTTGCCCTGY
13522 P G S ATGACGTGGCAGACCGGCCTTGCCCTY
13522 T A S TAGTCAGGGCAAGGCCAGGCAGGCACCCACAGTAGGCCTGTG
13522 T G S TAGTCAGGGCAAGGCCGGGCAGGCACCCACAGTAGGCCTGTG
TACAGAGGAGGAGCCCGGGACCCAGTTGCTGGCCAGGCCCAAGCTAGTCAGGGCAAGGCC[AG]GGCAGGCACCCACAGTAGGCCTGTGTCCCGGCTGCT
13522 IS [AG] CCGCTTTCTCTCGAGGTCCCATTC ctg14932 16
13534 I A GGGATGGGGTCACAGGGATAGGGGTCT
13534 P G A ATGACGTGGCAGACGGGGCCAGGATGAGY
13534 P A A CGCGCCGAGGAGGGCCAGGATGAGY
13534 T G A ACCCCTCATCCTGGCCCCGACCCCTATCCCTGTGACCCCATCCCCA
13534 T A A ACCCCTCATCCTGGCCCTGACCCCTATCCCTGTGACCCCATCCCCA
GGGGATGGGGAACACAGGGAGAGGGGTCAGGATGGGGATGGGGTCACAGGGATAGGGGTC[GA]GGGCCAGGATGAGGGGTCGCAGGGAGAGGGGTCA
13534 IS [GA] GGATGAGGTTGGGGGGAACAAGGAGA ctg14932 16
13557 I A CTCTGTTGTCTTGCCTGTGGGAAAGCCTATGAATAGATTT
13557 P C A CGCGCCGAGGCCAGAGCCCATCTCTGY
13557 P G A ATGACGTGGCAGACGCAGAGCCCATCTCTY
13557 T C A AAGACAGAGATGGGCTCTGGAATCTATTCATAGGCTTTCCCACAGGCAAGACAACAGAGCT
13557 T G A AAGACAGAGATGGGCTCTGCAATCTATTCATAGGCTTTCCCACAGGCAAGACAACAGAGCT
TTCCTTTTACCTCTTGTAAAGCTCTGTTGTCTTGCCTGTGGGAAAGCCTATGAATAGATT[CG]CAGAGCCCATCTCTGTCTTACTGTGGTGTGAGTGTGCAG
13557 IS [CG] GAAAGGGTGAGGGCAGGAGAC ctg15064 7
13561 I A CCTTTGGGATAGTGCCCTGTTTCTTCATTTTAATGAAAGTAGTGGT
13561 P A A CGCGCCGAGGATTCTCTAGACATCGTGAATTGY
13561 P G A ATGACGTGGCAGACGTTCTCTAGACATCGTGAATTY
13561 T A A ACTTCAATTCACGATGTCTAGAGAATCCACTACTTTCATTAAAATGAAGAAACAGGGCACTATCCCAAAGGCT
13561 T G A ACTTCAATTCACGATGTCTAGAGAACCCACTACTTTCATTAAAATGAAGAAACAGGGCACTATCCCAAAGGCT
GGTTGCACATGCAAGCCTTTGGGATAGTGCCCTGTTTCTTCATTTTAATGAAAGTAGTGG[AG]TTCTCTAGACATCGTGAATTGAAGTTCTTAAAATTGAATC
13561 IS [AG] CATGGATTACCCTCAGCAAA ctg15064 7
13573 I S CCCTCCTCACCCCACGAGCTTTCACAATAAATTA
13573 P A S CGCGCCGAGGTGCTCCGTGGCACY
13573 P G S ATGACGTGGCAGACCGCTCCGTGGCAY
13573 T A S CCCAGTGCCACGGAGCAAATTTATTGTGAAAGCTCGTGGGGTGAGGAGGGGA
13573 T G S CCCAGTGCCACGGAGCGAATTTATTGTGAAAGCTCGTGGGGTGAGGAGGGGA
AGAAACACACCCTCTAAATGTGCGCGCGCTCACACACAAAGTTCCCCAGTGCCACGGAGC[AG]AATTTATTGTGAAAGCTCGTGGGGTGAGGAGGGGATGG
13573 IS [AG] GGCAGGCTCTAGGAGGCTGAGT ctg15684 5
13585 I S GATGCTGGACTAGTAAGTATAATGCAACTATTCCAAAAAACAACAACAACAAGAAT
13585 P T S CGCGCCGAGGATCTTAAACACTTTTGGTCCCY
13585 P C S ATGACGTGGCAGACGTCTTAAACACTTTTGGTCCY
13585 T T S GCTTGGGACCAAAAGTGTTTAAGATTTCTTGTTGTTGTTGTTTTTTGGAATAGTTGCATTATACTTACTAGTCCAGCATCCC
13585 T C S GCTTGGGACCAAAAGTGTTTAAGACTTCTTGTTGTTGTTGTTTTTTGGAATAGTTGCATTATACTTACTAGTCCAGCATCCC
TGCTTAACTACAGATTGAGTATCCCTTATCCGAAATGCTTGGGACCAAAAGTGTTTAAGA[TC]TTCTTGTTGTTGTTGTTTTTTGGAATAGTTGCATTATACTT
13585 IS [TC] ACTAGTCCAGCATCCCTAA ctg15174 19
13640 I A CTAGTGGCTGCTGGGGCTGCACAT
13640 P G A ATGACGTGGCAGACGCCTGCTGCCTCCY
13640 P C A CGCGCCGAGGCCCTGCTGCCTCCY
13640 T G A CCATGGAGGCAGCAGGCTGTGCAGCCCCAGCAGCCACTAGGG
13640 T C A CCATGGAGGCAGCAGGGTGTGCAGCCCCAGCAGCCACTAGGG
CATGCTGCCCTTTTGCCATCTCTGGGTACCGGTGACCCTAGTGGCTGCTGGGGCTGCACA[GC]CCTGCTGCCTCCATGGTCATGTTCCCCCATCTCCCAGC
13640 IS [GC] TCTGCACCACCATTGCCCCCAC ctg17263 16 LW-1
13654 I A GGGTGGGGGACGGCCATGTCAAGATTT
13654 P A A CGCGCCGAGGATAGAGCAGGCATATTGACY
13654 P G A ATGACGTGGCAGACGTAGAGCAGGCATATTGACY
13654 T A A ATGTGTCAATATGCCTGCTCTATAATCTTGACATGGCCGTCCCCCACCCTG
13654 T G A ATGTGTCAATATGCCTGCTCTACAATCTTGACATGGCCGTCCCCCACCCTG
TTGAGCCTGCCATGTAGCACATGCTGGGGTCCCAGGGTGGGGGACGGCCATGTCAAGATT[AG]TAGAGCAGGCATATTGACACATATCTTCCCTTCTCCTC
13654 IS [AG] AGGAGGAGTGCTGGCATCTCCA ctg18037 7
13665 I A GACCAGCCGGGTAGCCCCATCCA
13665 P T A CGCGCCGAGGTGAGGTGCCACTGGY
13665 P C A ATGACGTGGCAGACCGAGGTGCCACTGGY
13665 T T A GAAGCCAGTGGCACCTCAGGATGGGGCTACCCGGCTGGTCCT
13665 T C A GAAGCCAGTGGCACCTCGGGATGGGGCTACCCGGCTGGTCCT

FIGURE 129E

13665 IS	[TC]		GTTGGGCCAGGCCTGGCTGAGAGGGGGCAGGAGGGCAGGACCAGCCGGGTAGCCCCATCC[TC]GAGGTGCCACTGGCTTCACTCCCCACAGCTGGAGG CCCTGAACCAGTCCATTAACATCGA	ctg15128	17	
13667 I		A	CTGGATTGGAGGGGCCCGCCCT			
13667 P	A	A	CGCGCCGAGGAGGTAGGGAGACTTTGAGY			
13667 P	G	A	ATGACGTGGCAGACGGGTAGGGAGACTTTGAY			
13667 T	A	A	GGCCCTCAAAGTCTCCCTACCTGGGCGGGCCCCTCCAATCCAGCC			
13667 T	G	A	GGCCCTCAAAGTCTCCCTACCCGGGCGGGCCCCTCCAATCCAGCC			
13667 IS	[AG]		GTTGCTCGGAGACAGGCACAGGAGCTGTGGGAGCCGAGGCTGGATTGGAGGGGCCCGCCC[AG]GGTAGGGAGACTTTGAGGGCCTCCCAGTGGCCAAG GACAGTGGCCGCCCCTCCTGCCCCC	ctg14007	17	
13675 I		A	TGACTTGTGTGTGATGAGAGAATGGAGACAGAGTCCCA			
13675 P	T	A	CGCGCCGAGGTGGCTCCTCTACTGTTTAAY			
13675 P	C	A	ATGACGTGGCAGACCGGCTCCTCTACTGTTY			
13675 T	T	A	GTTGTTAAACAGTAGAGGAGCCAGGGACTCTGTCTCCATTCTCTCATCACACACAAGTCATG			
13675 T	C	A	GTTGTTAAACAGTAGAGGAGCCGGGGACTCTGTCTCCATTCTCTCATCACACACAAGTCATG			
13675 IS	[TC]		TTTTTTTTTTTTGGTAGATGCATGACTTGTGTGTGATGAGAGAATGGAGACAGAGTCCC[TC]GGCTCCTCTACTGTTTAACAACATGGCTTTCTTATTTTGTT TGAATTGTTAATTCACAGA			
13676 I		A	GTCATCCTCTGTCTGGTAGAGACATTCACATCTTTGCTTTTATTCTT			
13676 P	G	A	ATGACGTGGCAGACGTGCTCTCTGTACTTTTGAY			
13676 P	A	A	CGCGCCGAGGATGCTCTCTGTACTTTTGACY			
13676 T	G	A	TTTGGTCAAAAGTACAGAGAGCACAGAATAAAAGCAAAGATGTGAATGTCTCTACCAGACAGAGGATGACCT			
13676 T	A	A	TTTGGTCAAAAGTACAGAGAGCATAGAATAAAAGCAAAGATGTGAATGTCTCTACCAGACAGAGGATGACCT			
13676 IS	[GA]		AAACTGCTGACTAGGTCATCCTCTGTCTGGTAGAGACATTCACATCTTTGCTTTTATTCT[GA]TGCTCTCTGTACTTTTGACCAAAAATTGACCAAAGTAAGAA AATGCAAGTTCTAAAAATA	ctg15907	6	ADAR
13680 I		A	CTCTCCGTGGTGCTGAAACGCCTCGA			
13680 P	T	A	CGCGCCGAGGTAGCCGCCGCTGY			
13680 P	C	A	ATGACGTGGCAGACCAGCCGCCGCTY			
13680 T	T	A	CGGACAGCGGCGGCTACGAGGCGTTTCAGCACCACGGAGAGCG			
13680 T	C	A	CGGACAGCGGCGGCTGCGAGGCGTTTCAGCACCACGGAGAGCG			
13680 IS	[TC]		ATACTCTTCGCGCTCCTGAAAAGCAGGTCTGGACGCTCTCCGTGGTGCTGAAACGCCTCG[TC]AGCCGCCGCTGTCCGTGGTATCTACGACCCCCTCGCT CCAATTTCCCCTGGGGCTCTCCC	ctg14946	16	GLRA1
13685 I		S	GGGTCTGAATAGAACCGGGCAGGGCTACTTTT			
13685 P	C	S	ATGACGTGGCAGACGGGCACACTGCCTY			
13685 P	T	S	CGCGCCGAGGAGGCACACTGCCTATY			
13685 T	C	S	CCCCATAGGCAGTGTGCCCAAAGTAGCCCTGCCCGGTTCTATTCAGACCCTT			
13685 T	T	S	CCCCATAGGCAGTGTGCCTAAAGTAGCCCTGCCCGGTTCTATTCAGACCCTT			
13685 IS	[CT]		GCCCGGTTCTCTTTTTTCACTGCTCCTTGCAGAGCAGGGCCACCCCATAGGCAGTGTGCC[CT]AAAGTAGCCCTGCCCGGTTCTATTCAGACCCTTCTTGT GAACTTCTGCTCTTCCTCTGCC	ctg15064	7	
13687 I		A	CCGGAGGACAGGAGACTCGAAAAACGCTA			
13687 P	C	A	ATGACGTGGCAGACCTTCCTGGCCAGTCTY			
13687 P	T	A	CGCGCCGAGGTTTCCTGGCCAGTCTCY			
13687 T	C	A	CAAAGAGACTGGCCAGGAAGAGCGTTTTTCGAGTCTCCTGTCCTCCGGGG			
13687 T	T	A	CAAAGAGACTGGCCAGGAAAAGCGTTTTTCGAGTCTCCTGTCCTCCGGGG			
13687 IS	[CT]		GTTCAACTGTGTGTCCCTGAGACTCCTCTGCCCCGGAGGACAGGAGACTCGAAAAACGCT[CT]TTCCTGGCCAGTCTCTTTGCTCTGTGTCTGCCAGCCCC CAGCATCTCTCCTCTTTCCTGT	ctg15944	11	
13690 I		S	GCACAGCAGACCTGTGTAATGCACATGTATTTAAAAAATAAGTAACTATTGTTCTCT			
13690 P	C	S	ATGACGTGGCAGACGATTTCTTAAATAGGGACCAATTTAY			
13690 P	T	S	CGCGCCGAGGAATTTCTTAAATAGGGACCAATTTATY			
13690 T	C	S	AGAAATAAATTGGTCCCTATTTAAGAAATCGAGAACAATAGTTACTTATTTTTTAAATACATGTGCATTACACAGGTCTGCTGTGCAT			
13690 T	T	S	AGAAATAAATTGGTCCCTATTTAAGAAATTGAGAACAATAGTTACTTATTTTTTAAATACATGTGCATTACACAGGTCTGCTGTGCAT			
13690 IS	[CT]		CAGGGAGTGGCCAATTTCATGAGCAGCAACGAGAAATAAATTGGTCCCTATTTAAGAAAT[CT]GAGAACAATAGTTACTTATTTTTTAAATACATGTGCATTAC ACAGGTCTGCTGTGCATTG	ctg13023	2	
13694 I		S	CCAGGTTCTACTGCATAAAAAGTGTAAGTAACCAATATTTCAGACAAAAGGTT			
13694 P	G	S	CGCGCCGAGGCATGGTTCTTCCCACTTGY			
13694 P	C	S	ATGACGTGGCAGACGATGGTTCTTCCCACTTGY			
13694 T	G	S	AGGGCAAGTGGGAAGAACCATGACCTTTTGTCTGAAATATTGGTTACTTACACTTTTTATGCAGTAGAACCTGGAT			
13694 T	C	S	AGGGCAAGTGGGAAGAACCATCACCTTTTGTCTGAAATATTGGTTACTTACACTTTTTATGCAGTAGAACCTGGAT			
13694 IS	[GC]		GTGTGCCTACATCAATGGTAACATCTTATTCTTTTTCTAAGGGCAAGTGGGAAGAACCAT[GC]ACCTTTTGTCTGAAATATTGGTTACTTACACTTTTTATGCA GTAGAACCTGGATCATGAG	ctg13023	2	
13695 I		S	GGGTTGCAGGCCCCACCTTCCCT			
13695 P	C	S	ATGACGTGGCAGACGGGTGGCACTGGGY			
13695 P	T	S	CGCGCCGAGGAGGTGGCACTGGGY			
13695 T	C	S	CCGGCCCAGTGCCACCCGGGAAGGTGGGGCCTGCAACCCCC			
13695 T	T	S	CCGGCCCAGTGCCACCTGGGAAGGTGGGGCCTGCAACCCCC			
13695 IS	[CT]		GAAACCTGCCTCTACCATGGGCATGGGGCCCTTGGGGAAAGGCGCCGGCCCAGTGCCACC[CT]GGGAAGGTGGGGCCTGCAACCCCCTCAGCCCAGGTG GGGAAGTGGGAGGAGGACTCAGAG	ctg22fin4	22	TCOF1
13703 I		S	TGAGAGGGCCTGGGTGGGGAACCT			
13703 P	G	S	CGCGCCGAGGCGGAGGACAGGAGGY			
13703 P	C	S	ATGACGTGGCAGACGGGAGGACAGGAGGY			
13703 T	G	S	CTGCCCTCCTGTCCTCCGGGTTCCCCACCCAGGCCCTCTCAGC			
13703 T	C	S	CTGCCCTCCTGTCCTCCCGGTTCCCCACCCAGGCCCTCTCAGC			
13703 IS	[GC]		ATCTCTCTGTCCTTCGCTGTCCCTCTCTATTGTCTCCCCTCTTTCTGCCCTCCTGTCCTCC[GC]GGTTCCCCACCCAGGCCCTCTCAGCCTGGCTGGCCCCTT CTCCTTGTGTTGCCCTCCTAG	ctg22fin4	22	
13705 I		A	CCCTTGGGTGAAAAATACATGTCCATCCTGATATCTCCTGAATTT			
13705 P	C	A	ATGACGTGGCAGACCAGAAATTAGCCTCCACATY			
13705 P	A	A	CGCGCCGAGGAAGAAATTAGCCTCCACATGY			
13705 T	C	A	TGCACATGTGGAGGCTAATTTCTGAATTCAGGAGATATCAGGATGGACATGTATTTTTCACCCAAGGGAC			
13705 T	A	A	TGCACATGTGGAGGCTAATTTCTTAATTCAGGAGATATCAGGATGGACATGTATTTTTCACCCAAGGGAC			
13705 IS	[CA]		GAGCTCACATTCCTGTCCCTTGGGTGAAAAATACATGTCCATCCTGATATCTCCTGAATTT[CA]AGAAATTAGCCTCCACATGTGCAATGGCTTTAAGAGCCAG AAGCAGGGTTCTGGGAATTT	ctg22fin4	22	COX10
13708 I		S	GGGGGCAGGCACCCACTCACCT			
13708 P	T	S	CGCGCCGAGGATTGAAGCGGACAGCTY			
13708 P	C	S	ATGACGTGGCAGACGTTGAAGCGGACAGCY			
13708 T	T	S	TTCGAGCTGTCCGCTTCAATGGTGAGTGGGTGCCTGCCCCCCT			
13708 T	C	S	TTCGAGCTGTCCGCTTCAACGGTGAGTGGGTGCCTGCCCCCCT			
13708 IS	[TC]		GGCGATGGAACCCACCGATGGGCGGATGCTTCTGCAGTACATTCGAGCTGTCCGCTTCAA[TC]GGTGAGTGGGTGCCTGCCCCCCTGCAGCAGTGAAGGA CAGCTGGGGGGCTGGATTTTGCT	ctg15804	2	
13710 I		S	AGATACGGGATAAACAAAAGCACGAACAAGCATTTAATCTCATGAATGAATA			
13710 P	G	S	ATGACGTGGCAGACCGACCAGCCTGACAY			
13710 P	A	S	CGCGCCGAGGTGACCAGCCTGACAGY			
13710 T	G	S	CTGCCTGTCAGGCTGGTCGATTCATTCATGAGATTAAATGCTTGTTCGTGCTTTTGTTTATCCCGTATCTGG			
13710 T	A	S	CTGCCTGTCAGGCTGGTCAATTCATTCATGAGATTAAATGCTTGTTCGTGCTTTTGTTTATCCCGTATCTGG			
13710 IS	[GA]		GAAAAGGTAATGAGGTCCCCAGGAGGTCTCGCTGCCTGTTTCCTGCCTGTCAGGCTGGTC[GA]ATTCATTCATGAGATTAAATGCTTGTTCGTGCTTTTGTT TATCCCGTATCTGGCTGCTTG	ctg12325	11	
13715 I		A	CTGCCATTCTGTTCTGCTTGTCTTTGTTATTTTATTTTGTAAAATGCTGAGAT			
13715 P	A	A	CGCGCCGAGGACACCCCTCTTGACAGY			
13715 P	G	A	ATGACGTGGCAGACGCACCCCTCTTGACAY			
13715 T	A	A	AGCTCTGTCAAGAGGGGTGTTCTCAGCATTTTACAAAATAAAATAACAAAGACAAGCAGAACAGAATGGCAGTG			

FIGURE 129E

13715 T	G	A	AGCTCTGTCAAGAGGGGTGCTCTCAGCATTTTACAAAATAAAATAACAAAGACAAGCAGAACAGAATGGCAGTG			
13715 IS	[AG]		CATTTTCACTGCCATTCTGTTCTGCTTGTCTTTGTTATTTTATTTTGTAAAATGCTGAGA[AG]CACCCCTCTTGACAGAGCTGGCAGAGCCCTAGGGACCAAC TAGCTCATCCTATTTCTTTT	ctg22fin3	22	
13720 I		S	GGGGCCCCTCCTACAAGCTTCCTGCT			
13720 P	T	S	CGCGCCGAGGAGTCTCCGCTCTGCY			
13720 P	C	S	ATGACGTGGCAGACGGTCTCCGCTCTGCY			
13720 T	T	S	CGAGGCAGAGCGGAGACTGCAGGAAGCTTGTAGGAGGGGCCCCAC			
13720 T	C	S	CGAGGCAGAGCGGAGACCGCAGGAAGCTTGTAGGAGGGGCCCCAC			
13720 IS	[TC]		AGCCCCAGAAAACTGGATGGCTGTGCACATTGCACGTCTGATCCGAGGCAGAGCGGAGAC[TC]GCAGGAAGCTTGTAGGAGGGGCCCCACGGATCTGGG GAAAGGGTCATGGGTCGTGAGGCT	ctg13214	2	
13722 I		A	ATGAGCGCTAGAGCAGGGGAAGGGGT			
13722 P	G	A	ATGACGTGGCAGACGCTTCATGGGGACTGTY			
13722 P	A	A	CGCGCCGAGGACTTCATGGGGACTGTATY			
13722 T	G	A	CTACATACAGTCCCCATGAAGCCCCCTTCCCCTGCTCTAGCGCTCATGT			
13722 T	A	A	CTACATACAGTCCCCATGAAGTCCCCTTCCCCTGCTCTAGCGCTCATGT			
13722 IS	[GA]		GGGTGGGCAAAGGCTGGTCCAGATTAGAGCAATACATGAGCGCTAGAGCAGGGGAAGGGG[GA]CTTCATGGGGACTGTATGTAGCTGGATGTGGTCAGC GATGAGTGTCCTTGTTGGGGAGTG	ctg53	14	
13736 I		A	AGCATCCTGGCTCACTCTCACCCTATGCTT			
13736 P	A	A	CGCGCCGAGGAAACTCAGGCGACCGY			
13736 P	G	A	ATGACGTGGCAGACGAACTCAGGCGACCGY			
13736 T	A	A	AGCACGGTCGCCTGAGTTTAGCATAGGGTGAGAGTGAGCCAGGATGCTTG			
13736 T	G	A	AGCACGGTCGCCTGAGTTCAGCATAGGGTGAGAGTGAGCCAGGATGCTTG			
13736 IS	[AG]		CGCAAAGAATAAGATGGGTTGATGGGTTGCAAGCATCCTGGCTCACTCTCACCCTATGCT[AG]AACTCAGGCGACCGTGCTGTGTGACATCATAGTCCTCTA CTGCATGAAGAAAAGACTCTA	ctg53	14	
13758 I		S	GGACCAATGCTTGCTGGAGATGCTGCAGAGT			
13758 P	C	S	ATGACGTGGCAGACGCCTCAGTGCCCAY			
13758 P	T	S	CGCGCCGAGGACCTCAGTGCCCAGY			
13758 T	C	S	GACACTGGGCACTGAGGCCTCTGCAGCATCTCCAGCAAGCATTGGTCCCA			
13758 T	T	S	GACACTGGGCACTGAGGTCTCTGCAGCATCTCCAGCAAGCATTGGTCCCA			
13758 IS	[CT]		GCTGGGTACCTGAAGCTGCTGTAAAGGCTTTCTTAGCCTGCTTGACACTGGGCACTGAGG[CT]CTCTGCAGCATCTCCAGCAAGCATTGGTCCCACACAGT TGGAACACCTGGTAACAGAGAG	ctg53	14	
13761 I		S	GAGCGAGGAGACCACCGGGGGAAT			
13761 P	C	S	ATGACGTGGCAGACGAGGAGAGCGCACGY			
13761 P	G	S	CGCGCCGAGGCAGGAGAGCGCACGY			
13761 T	C	S	TCATCGTGCGCTCTCCTCTTCCCCCGGTGGTCTCCTCGCTCGC			
13761 T	G	S	TCATCGTGCGCTCTCCTGTTCCCCCGGTGGTCTCCTCGCTCGC			
13761 IS	[CG]		CTGGCGGGAAATTTCGGTTTTGGCGCGCTCCCTGCGGCGACGCTCATCGTGCGCTCTCCT[CG]TTCCCCCGGTGGTCTCCTCGCTCGCCTTCTGGCTCTG CCATGCCCTGCTCTGAAGAGACA	ctg12325	11	
13774 I		A	AGGGGACTGGTCCCGGTCACCGA			
13774 P	T	A	CGCGCCGAGGTGGACGTGCTGGCY			
13774 P	C	A	ATGACGTGGCAGACCGGACGTGCTGGCY			
13774 T	T	A	CAAGGCCAGCACGTCCACGGTGACCGGGACCAGTCCCCTCC			
13774 T	C	A	CAAGGCCAGCACGTCCGCGGTGACCGGGACCAGTCCCCTCC			
13774 IS	[TC]		GCGGGTCCTCAGCTGCTCCCACACTTGTGCCAGCCCGGAGGGGACTGGTCCCGGTCACCG[TC]GGACGTGCTGGCCTTGGTATGTGCCAGGCTTGCCTG GGCTGGGCAGCCTTGGGGGGGCTG	ctg12325	11	
13776 I		S	GCTTGCGGGGCTGTTTCGGACCTTC			
13776 P	A	S	CGCGCCGAGGTCCAGAGATGATAAACAAGTGY			
13776 P	C	S	ATGACGTGGCAGACGCCAGAGATGATAAACAAGTY			
13776 T	A	S	CCCCCACTTGTTTATCATCTCTGGAAAGGTCCGAAACAGCCCCGCAAGCTC			
13776 T	C	S	CCCCCACTTGTTTATCATCTCTGGCAAGGTCCGAAACAGCCCCGCAAGCTC			
13776 IS	[AC]		GCTCTAACTTGTGGGGTCTAGTCAGGATGGGGAAGACCCCCACTTGTTTATCATCTCTGG[AC]AAGGTCCGAAACAGCCCCGCAAGCTCTGTGGAAAGCAT CCTTGCTGCTCCCCACCCCCCG	ctg14145	11	
13783 I		A	GCTTGTTTTTAAAAACTCACGTTAATAAAAACTTAGATGTCAGGAAAAAAAAGAT			
13783 P	C	A	CGCGCCGAGGCTTTAATCATGAAACCAAGGAAGY			
13783 P	G	A	ATGACGTGGCAGACGTTTAATCATGAAACCAAGGAAY			
13783 T	C	A	GAAACTTCCTTGGTTTCATGATTAAAGTCTTTTTTTTCCTGACATCTAAGTTTTTATTAACGTGAGTTTTTAAAAACAAGCAT			
13783 T	G	A	GAAACTTCCTTGGTTTCATGATTAAACTCTTTTTTTTCCTGACATCTAAGTTTTTATTAACGTGAGTTTTTAAAAACAAGCAT			
13783 IS	[CG]		ATACATGCTTGTTTTTAAAAACTCACGTTAATAAAAACTTAGATGTCAGGAAAAAAAAGA[CG]TTTAATCATGAAACCAAGGAAGTTTCTACCATTAAGCTCCC AACAGTAACCTAGAGAAAT	ctg15907	6	
13785 I		S	CGTAGGATTCTGGGTCCCGTGTTGATACGGT			
13785 P	T	S	CGCGCCGAGGAGTGGTTCCCCTCCTY			
13785 P	C	S	ATGACGTGGCAGACGGTGGTTCCCCTCCY			
13785 T	T	S	CCGCAGGAGGGGAACCACTCCGTATCAACACGGGACCCAGAATCCTACGCA			
13785 T	C	S	CCGCAGGAGGGGAACCACCCCGTATCAACACGGGACCCAGAATCCTACGCA			
13785 IS	[TC]		CAGTTTCCTCAGCTCCCTACCCCCCGAGAGACACTAACTCCACCGCAGGAGGGGAACCAC[TC]CCGTATCAACACGGGACCCAGAATCCTACGCAGTGGAG CGTCTCTCCGCACCCTGGGACA	ctg15330	9	
13789 I		S	ACTCGGGACCGCGGAGAGCCAT			
13789 P	C	S	ATGACGTGGCAGACGAGGCGCCCAGGY			
13789 P	G	S	CGCGCCGAGGCAGGCGCCCAGGY			
13789 T	C	S	CGGACCTGGGCGCCTCTGGCTCTCCGCGGTCCCGAGTTC			
13789 T	G	S	CGGACCTGGGCGCCTGTGGCTCTCCGCGGTCCCGAGTTC			
13789 IS	[CG]		TGTCCCCGTCCTCGCGATGCAGTCGGCCGGCTCCGGCTCCGGAAGGCGGACCTGGGCGCCT[CG]TGGCTCTCCGCGGTCCCGAGTTCTCGACAAACTTTC TGCGCCGACTGCGGCATGAGAAGC	ctg13715	13	
13793 I		A	GCGCAAGCTGGCCGTCAACATGGTA			
13793 P	C	A	ATGACGTGGCAGACCCCCTTTCCTCGCCY			
13793 P	T	A	CGCGCCGAGGTCCCTTTCCTCGCCY			
13793 T	C	A	TGCAGGCGAGGAAAGGGGACCATGTTGACGGCCAGCTTGCGCAG			
13793 T	T	A	TGCAGGCGAGGAAAGGGAACCATGTTGACGGCCAGCTTGCGCAG			
13793 IS	[CT]		CTGCCTGCGCTTCCCGGGCCAGCTGAACGCCGACCTGCGCAAGCTGGCCGTCAACATGGT[CT]CCCTTTCCTCGCCTGCACTTCTTCATGCCCGGCTTCG CACCCCTGACCAGCCGGGGCAGC	ctg15907	6	TUBB5
13796 I		A	TGCCCCATCCTCATGTTTGGTGTCTTCATCCATTTAC			
13796 P	G	A	ATGACGTGGCAGACGGTCTGAAACCACTATTCTTAY			
13796 P	T	A	CGCGCCGAGGTGTCTGAAACCACTATTCTTAGY			
13796 T	G	A	ATAGCTAAGAATAGTGGTTTCAGACCTAAATGGATGAAGACACCAAACATGAGGATGGGGCAGC			
13796 T	T	A	ATAGCTAAGAATAGTGGTTTCAGACATAAATGGATGAAGACACCAAACATGAGGATGGGGCAGC			
13796 IS	[GT]		TGGATTTACTATATTTCAGTGAGCTGCCCCATCCTCATGTTTGGTGTCTTCATCCATTTA[GT]GTCTGAAACCACTATTCTTAGCTATTCAGTGGTGAACAGAC TGCAAATCTGTGTTATAGG			
13797 I		S	AGATTTGCAGTCTGTTCACCACTGAATAGCTAAGAATAGTGGTTTT			
13797 P	G	S	CGCGCCGAGGCAGACCTAAATGGATGAAGACY			
13797 P	C	S	ATGACGTGGCAGACGAGACCTAAATGGATGAAGACY			
13797 T	G	S	TGGTGTCTTCATCCATTTAGGTCTGAAACCACTATTCTTAGCTATTCAGTGGTGAACAGACTGCAAATCTGT			
13797 T	C	S	TGGTGTCTTCATCCATTTAGGTCTCAAACCACTATTCTTAGCTATTCAGTGGTGAACAGACTGCAAATCTGT			
13797 IS	[GC]		TTACTATATTTCAGTGAGCTGCCCCATCCTCATGTTTGGTGTCTTCATCCATTTAGGTCT[GC]AAACCACTATTCTTAGCTATTCAGTGGTGAACAGACTGCA AATCTGTGTTATAGGGCCCA	ctg15064	7	
13805 I		A	AGACTGCAAATCTGTGTTATAGGGCCCATATTAACATAGCACTT			
13805 P	G	A	ATGACGTGGCAGACGATTCAACATATAACTTACTAAGAGCY			
13805 P	A	A	CGCGCCGAGGAATTCAACATATAACTTACTAAGAGCY			
13805 T	G	A	ACATGCTCTTAGTAAGTTATATGTTGAATCAGTGCTATGTTAATATGGGCCCTATAACACAGATTTGCAGTCTGT			
13805 T	A	A	ACATGCTCTTAGTAAGTTATATGTTGAATTAGTGCTATGTTAATATGGGCCCTATAACACAGATTTGCAGTCTGT			

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FIGURE 129E

				GCTATTCAGTGGTGAACAGACTGCAAATCTGTGTTATAGGGCCCATATTAACATAGCACT[GA]ATTCAACATATAACTTACTAAGAGCATGTTTTAGCATTACT			
13805 IS	[GA]			GTTAAGAAATTAAATAAGC	ctg15064	7	
13806 I			S	ATTCTGATGCTTATTTAATTTCTTAACAGTAATGCTAAAACATGCTCTTAGTAAGC			
13806 P	A		S	CGCGCCGAGGTTATATGTTGAATCAGTGCTATGTY			
13806 P	C		S	ATGACGTGGCAGACGTATATGTTGAATCAGTGCTATGY			
13806 T	A		S	ATTAACATAGCACTGATTCAACATATAACTTACTAAGAGCATGTTTTAGCATTACTGTTAAGAAATTAAATAAGCATCAGAATTT			
13806 T	C		S	ATTAACATAGCACTGATTCAACATATACCTTACTAAGAGCATGTTTTAGCATTACTGTTAAGAAATTAAATAAGCATCAGAATTT			
				GAACAGACTGCAAATCTGTGTTATAGGGCCCATATTAACATAGCACTGATTCAACATATA[AC]CTTACTAAGAGCATGTTTTAGCATTACTGTTAAGAAATTAA			
13806 IS	[AC]			ATAAGCATCAGAATTTAAA	ctg19	19	
13815 I			A	CATTGCTCTTGAAGGTAAACACTGAACACAGCTCTATGACACT			
13815 P	C		A	ATGACGTGGCAGACCTTAGTGCCCTGCCAY			
13815 P	A		A	CGCGCCGAGGATTAGTGCCCTGCCAY			
13815 T	C		A	AAGCTGGCAGGGCACTAAGGTGTCATAGAGCTGTGTTCAGTGTTTACCTTCAAGAGCAATGCC			
13815 T	A		A	AAGCTGGCAGGGCACTAATGTGTCATAGAGCTGTGTTCAGTGTTTACCTTCAAGAGCAATGCC			
				GGTATGCTAGAGGGAGGGCATTGCTCTTGAAGGTAAACACTGAACACAGCTCTATGACAC[CA]TTAGTGCCCTGCCAGCTTACGGTGTAAGACCACATGTG			
13815 IS	[CA]			GGCTGCATCCTGCTGGATCGGA	ctg15907	6	
13820 I			A	GGCTTACAGTACTGAACCCAGGAATGACAATAACTGTGTGA			
13820 P	T		A	CGCGCCGAGGTGTTGCTGCAGGTGAY			
13820 P	C		A	ATGACGTGGCAGACCGTTGCTGCAGGTGY			
13820 T	T		A	TTTGTCACCTGCAGCAACACACAGTTATTGTCATTCCTGGGTTCAGTACTGTAAGCCCG			
13820 T	C		A	TTTGTCACCTGCAGCAACGCACACAGTTATTGTCATTCCTGGGTTCAGTACTGTAAGCCCG			
				GAGTGGGGAAGATGGGTCCGGGCTTACAGTACTGAACCCAGGAATGACAATAACTGTGTG[TC]GTTGCTGCAGGTGACAAAATATCTGAACAGAAGAGGAC			
13820 IS	[TC]			TTAGGAGAGATCTGAACTCCAG	ctg18743	16	
13831 I			A	GCAGTCCATCCTGACCCTACAGTCCCCAGA			
13831 P	C		A	ATGACGTGGCAGACCCTCCTCGTCCCATGY			
13831 P	T		A	CGCGCCGAGGTCTCCTCGTCCCATGY			
13831 T	C		A	GAGGCATGGGACGAGGAGGCTGGGGACTGTAGGGTCAGGATGGACTGCAG			
13831 T	T		A	GAGGCATGGGACGAGGAGACTGGGGACTGTAGGGTCAGGATGGACTGCAG			
				AGCGAGGCAGGACCCCACCTCCTCCCCGTCTGCAGTCCATCCTGACCCTACAGTCCCCAG[CT]CTCCTCGTCCCATGCCTCCGTCTCCAGCTGCTGCCTTG			
13831 IS	[CT]			CCTCCAGGGATGGCCCCTTTTC	ctg16401	17	
13832 I			S	TTCCACAGGCTGCGCACATACTTGTCCTTT			
13832 P	C		S	ATGACGTGGCAGACGGCCTTGTCACGGTY			
13832 P	T		S	CGCGCCGAGGAGCCTTGTCACGGTCY			
13832 T	C		S	CAAGGACCGTGACAAGGCCAAGGACAAGTATGTGCGCAGCCTGTGGAAGC			
13832 T	T		S	CAAGGACCGTGACAAGGCTAAGGACAAGTATGTGCGCAGCCTGTGGAAGC			
				CTCCATGCTGTCATCTATACCCCTTGCCCCCCTTCTGGCAGACAAGGACCGTGACAAGGC[CT]AAGGACAAGTATGTGCGCAGCCTGTGGAAGCTCTTTGC			
13832 IS	[CT]			TCACCACAACCGCTATGTGCTG	ctg16687	15	
13841 I			A	GAAGATGGTGCTGCTTCCATAAGCCAAGAGCAT			
13841 P	G		A	ATGACGTGGCAGACGCAGAGACGGCCGY			
13841 P	C		A	CGCGCCGAGGCCAGAGACGGCCGY			
13841 T	G		A	TTGCCGGCCGTCTCTGCTGCTCTTGGCTTATGGAAGCAGCACCATCTTCAC			
13841 T	C		A	TTGCCGGCCGTCTCTGGTGCTCTTGGCTTATGGAAGCAGCACCATCTTCAC			
				CAGACAGCACGTGGGGAGAACACCCTGTGAAGATGGTGCTGCTTCCATAAGCCAAGAGCA[GC]CAGAGACGGCCGGCAAAGCCCAGCAGCAAGGAGAGA			
13841 IS	[GC]			GCCTGGGACAGAGTCTCCCATGAC	ctg18433	19	
13850 I			S	TGGATATGAGGCAGAAGCTGTACATTCACTGACTGAACAATT			
13850 P	G		S	ATGACGTGGCAGACCAACAAACACACAAATACCTCY			
13850 P	T		S	CGCGCCGAGGAAACAAACACACAAATACCTCY			
13850 T	G		S	AAAAGAGGTATTTGTGTGTTTGTTGATTGTTCAGTCAGTGAATGTACAGCTTCTGCCTCATATCCAGG			
13850 T	T		S	AAAAGAGGTATTTGTGTGTTTGTTTATTGTTCAGTCAGTGAATGTACAGCTTCTGCCTCATATCCAGG			
				TGATTTTTTTAAATGAAGATTTAGAGTAATGGGTAAAAAAGAGGTATTTGTGTGTTTGTT[GT]ATTGTTCAGTCAGTGAATGTACAGCTTCTGCCTCATATCCA			
13850 IS	[GT]			GGCACCATCTCTTCCTGCT	ctg18433	19	
13856 I			S	CTCTACCCATCCCCATCCCCTGCAAGGT			
13856 P	C		S	ATGACGTGGCAGACGCCTCACCTTCACCTY			
13856 P	G		S	CGCGCCGAGGCCCTCACCTTCACCTTY			
13856 T	C		S	TTGCAAGGTGAAGGTGAGGCCCTTGCAGGGGATGGGGATGGGTAGAGCA			
13856 T	G		S	TTGCAAGGTGAAGGTGAGGGCCTTGCAGGGGATGGGGATGGGTAGAGCA			
				ACGACATTCTTTCACACCTGCAAGGAGCTTTCATTTCACATTTGCAAGGTGAAGGTGAGG[CG]CCTTGCAGGGGATGGGGATGGGTAGAGCAGTGTCTGAG			
13856 IS	[CG]			GTAGGTTTGAGCCTTTAAATGT	ctg21fin2	21	
13865 I			S	CTCTATCTGCTCCACGCCTCCCCACCT			
13865 P	G		S	CGCGCCGAGGCTGACGCTTCCCCAY			
13865 P	C		S	ATGACGTGGCAGACGTGACGCTTCCCCAY			
13865 T	G		S	AAAGTGGGGAAGCGTCAGGGTGGGGAGGCGTGGAGCAGATAGAGAG			
13865 T	C		S	AAAGTGGGGAAGCGTCACGGTGGGGAGGCGTGGAGCAGATAGAGAG			
				GAGTTGGATGGGACTGAGAACAAATGTGAGCCGGGGCCGGGAGAAAGTGGGGAAGCGTCA[GC]GGTGGGGAGGCGTGGAGCAGATAGAGAGCTGAAGG			
13865 IS	[GC]			GCCAGTGCTGTAGTGGCTTCCTCAG	ctg21fin5	21	
13868 I			S	GGAGGGTAACTCTAGGATATCCCCACTTGGCAAGT			
13868 P	T		S	CGCGCCGAGGAGCTTCAGAAGTATGGGGY			
13868 P	C		S	ATGACGTGGCAGACGGCTTCAGAAGTATGGGY			
13868 T	T		S	CCCTCCCCATACTTCTGAAGCTCTTGCCAAGTGGGGATATCCTAGAGTTACCCTCCTA			
13868 T	C		S	CCCTCCCCATACTTCTGAAGCCCTTGCCAAGTGGGGATATCCTAGAGTTACCCTCCTA			
				TCCCCAGTGTTCCCAAGTTATACTATCCTGAAACTCTTCCCCTCCCCATACTTCTGAAGC[TC]CTTGCCAAGTGGGGATATCCTAGAGTTACCCTCCTATTTG			
13868 IS	[TC]			AGTGATGTGCCTCTCCTTCC	ctg21fin5	21	
13873 I			A	GGTGCCTGCCCCTCACTGTGCAC			
13873 P	A		A	CGCGCCGAGGACTCTGGGAGCAGCY			
13873 P	T		A	ATGACGTGGCAGACTCTCTGGGAGCAGCY			
13873 T	A		A	CCGGGGCTGCTCCCAGAGTTGCACAGTGAGGGGCAGGCACCCA			
13873 T	T		A	CCGGGCTGCTCCCAGAGATGCACAGTGAGGGGCAGGCACCCA			
				CCATCTCCATCCCCATCTTGAGTCCTGGAACGGCCCTGGGTGCCTGCCCCTCACTGTGCA[AT]CTCTGGGAGCAGCCCGGCAGGTTGGGGCGTCTTCCAG			
13873 IS	[AT]			AACCTCTCCCTTCTGGAGCCACT	ctg21fin5	21	2.19
13893 I			A	GCAGATATTTGTGGGGCCACGTATGCAAGGATGA			
13893 P	T		A	CGCGCCGAGGTATTCATGTGCATGGGAGY			
13893 P	C		A	ATGACGTGGCAGACCATTCATGTGCATGGGAY			
13893 T	T		A	CATCCTCCCATGCACATGAATACATCCTTGCATACGTGGCCCCACAAATATCTGCAC			
13893 T	C		A	CATCCTCCCATGCACATGAATGCATCCTTGCATACGTGGCCCCACAAATATCTGCAC			
				TGCTTTGGAGGGCATGTGTGCATGTGTGCAGATATTTGTGGGGCCACGTATGCAAGGATG[TC]ATTCATGTGCATGGGAGGATGCATGTGTGTTTGGCACA			
13893 IS	[TC]			CATGTGCAGATGTGTATTGTGA	ctg17944	8	
13900 I			A	CACCCCCCAGCAAGGGACTGGACT			
13900 P	G		A	ATGACGTGGCAGACGCCCTCATTCAGCTGY			
13900 P	A		A	CGCGCCGAGGACCCTCATTCAGCTGCY			
13900 T	G		A	GGAGGCAGCTGAATGAGGGCGTCCAGTCCCTTGCTGGGGGGTGGG			
13900 T	A		A	GGAGGCAGCTGAATGAGGGTGTCCAGTCCCTTGCTGGGGGGTGGG			
				CCAGACTATCCCCTTCCTCATCCATGTAAGGTTAACCCACCCCCCAGCAAGGGACTGGAC[GA]CCCTCATTCAGCTGCCTCCTTAGAGGAGAGGGCATCCC			
13900 IS	[GA]			CTTTCCAGGGAGGTAAAGCAGG	ctg16166	14	MYOG
13901 I			A	GCTATTCAGGCCCCTCTGGGTGGCAGC			
13901 P	G		A	ATGACGTGGCAGACGTCCCTGGGCCACY			
13901 P	T		A	CGCGCCGAGGTTCCCTGGGCCACY			
13901 T	G		A	CTTTGTGGCCCAGGGACCTGCCACCCAGAGGGGCCTGAATAGCCA			
13901 T	T		A	CTTTGTGGCCCAGGGAACTGCCACCCAGAGGGGCCTGAATAGCCA			

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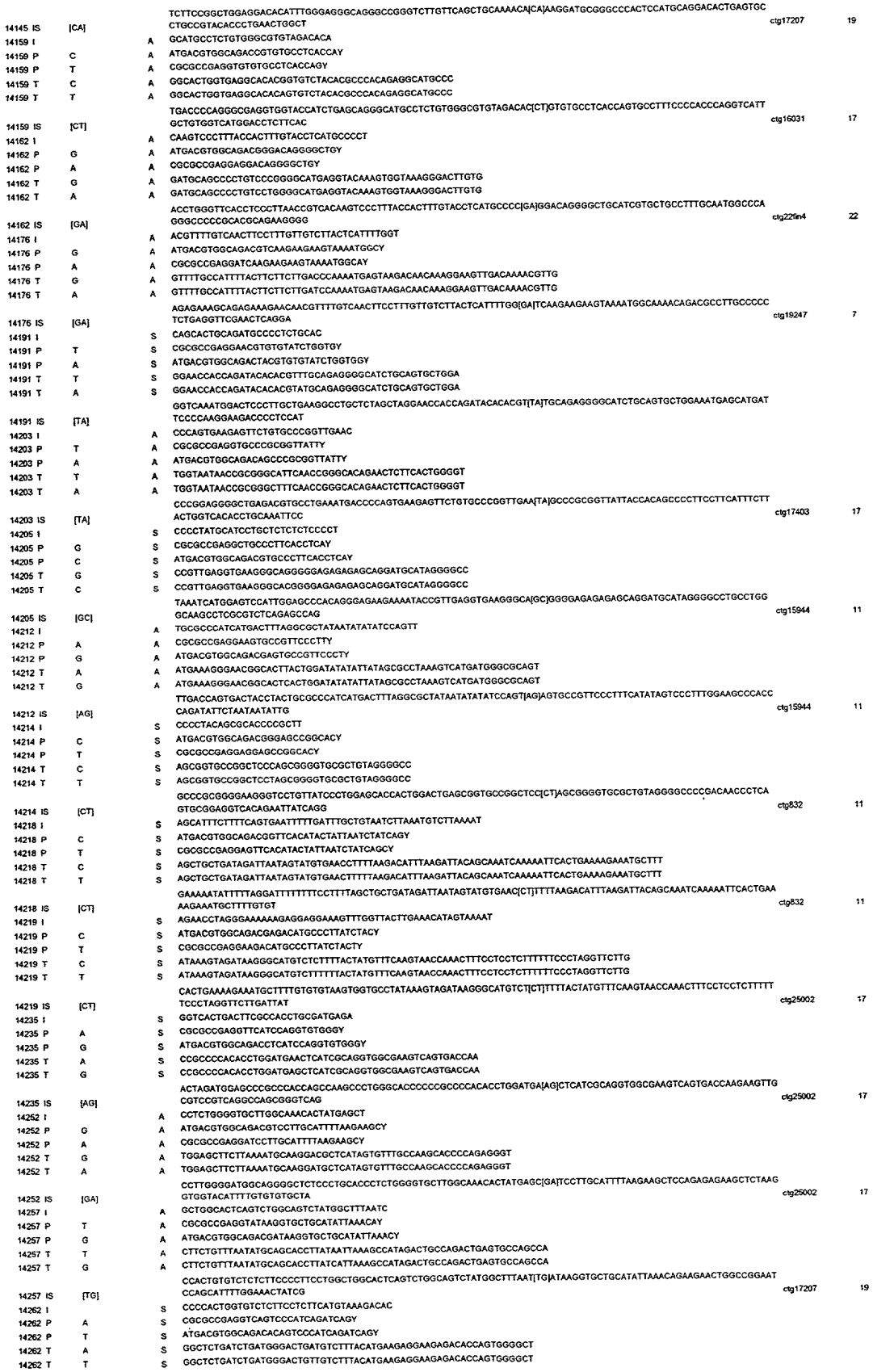
FIGURE 129E

				CTGGAGGCCAAGATAGAAAAGGTCAGGGCCACTGGCTATTCAGGCCCCTCTGGGTGGCAG[GT]TCCCTGGGCCACAAAGCAGAGAGAAGCCCCATCTGGT			
13901	IS	[GT]		AGTGGGGTGGGTCCCTGGGCTTC	ctg16045	6	
13902	I		A	GCCATTCCACGCACAAACACATCCACACACC			
13902	P	T	A	CGCGCCGAGGTCTCTCTGCCTAGTTCACY			
13902	P	G	A	ATGACGTGGCAGACGCTCTCTGCCTAGTTCAY			
13902	T	T	A	GTGTGTGAACTAGGCAGAGAGAGTGTGTGGATGTGTTTGTGCGTGGAATGGCAG			
13902	T	G	A	GTGTGTGAACTAGGCAGAGAGCGTGTGTGGATGTGTTTGTGCGTGGAATGGCAG			
				CCCTGCCTACTGGCTGCTTCCCGAATCCCTGCCATTCCACGCACAAACACATCCACACAC[TG]CTCTCTGCCTAGTTCACACACTGAGCCACTCGCACATGC			
13902	IS	[TG]		GAGCACATTCCTTCCTTCCTT	ctg5212	19	
13903	I		S	CACGCATCACAATGGGGCCTTGCCA			
13903	P	A	S	CGCGCCGAGGTGGGTCAGCAGGGY			
13903	P	G	S	ATGACGTGGCAGACCGGGTCAGCAGGGY			
13903	T	A	S	TGGGCCCTGCTGACCCAGGCAAGGCCCCATTGTGATGCGTGCC			
13903	T	G	S	TGGGCCCTGCTGACCCGGGCAAGGCCCCATTGTGATGCGTGCC			
				CAGGCAGGCATGTTGACGCCTCAGGCAGCGGAGGACCCTGACTCTGGGCCCTGCTGACCC[AG]GGCAAGGCCCCATTGTGATGCGTGCCATGACCTCAG			
13903	IS	[AG]		AATGTCACTGGTGCTTAGCACCTA	ctg15148	8	USP6
13904	I		A	CCATGCTAGACTTCAGGCCTCAACCCTGAGACA			
13904	P	T	A	CGCGCCGAGGTTCCCTGCTCTAGATCCY			
13904	P	C	A	ATGACGTGGCAGACCTCCCTGCTCTAGATCCY			
13904	T	T	A	TTTGGGATCTAGAGCAGGGAAGTCTCAGGGTTGAGGCCTGAAGTCTAGCATGGCA			
13904	T	C	A	TTTGGGATCTAGAGCAGGGAGGTCTCAGGGTTGAGGCCTGAAGTCTAGCATGGCA			
				TGGGTTTTGCTCTCAGCCCTGCTGTGTGCCATGCTAGACTTCAGGCCTCAACCCTGAGAC[TC]TCCCTGCTCTAGATCCCAAATCTGCCCAGATTTCCGATC			
13904	IS	[TC]		CCAATGGGGCAGAGCCTGGCC	ctg11	15	USP6
13906	I		S	CCCAAGCTCTCAGGACGTCGTTCCCCT			
13906	P	T	S	CGCGCCGAGGAATCTAGGCAGAGTGCTY			
13906	P	C	S	ATGACGTGGCAGACGATCTAGGCAGAGTGCTY			
13906	T	T	S	GATAAGCACTCTGCCTAGATTGGGGAACGACGTCCTGAGAGCTTGGGAT			
13906	T	C	S	GATAAGCACTCTGCCTAGATCGGGGAACGACGTCCTGAGAGCTTGGGAT			
				CAGGCAAGGGTGGGGTGTTTTGACCTGCGCCACAGGGACTGATAAGCACTCTGCCTAGAT[TC]GGGGAACGACGTCCTGAGAGCTTGGGATCTTATTCCG			
13906	IS	[TC]		GGAATTACTAGTGATCTAAACAG	ctg22fin11	22	
13927	I		S	GCAGGGAGGCCTTGAGACCCCCT			
13927	P	C	S	ATGACGTGGCAGACGCCTGCCCTGAGATAY			
13927	P	T	S	CGCGCCGAGGACCTGCCCTGAGATAGY			
13927	T	C	S	CCCTCTATCTCAGGGCAGGCGGGGGTCTCAAGGCCTCCCTGCCC			
13927	T	T	S	CCCTCTATCTCAGGGCAGGTGGGGGTCTCAAGGCCTCCCTGCCC			
				ACCAAGGGGTTCCCGCAGGGGCAGCCTGCAGCAAGCAGTCTCCCTCTATCTCAGGGCAGG[CT]GGGGGTCTCAAGGCCTCCCTGCCCTTGTCACAGCCC			
13927	IS	[CT]		GGGCCACCTATGCTTGTCTCTCTT	ctg22fin3	22	
13928	I		A	AGGGCTCCCGGGACAGCCCTT			
13928	P	C	A	ATGACGTGGCAGACCGGAGAAACTGCATCATCY			
13928	P	A	A	CGCGCCGAGGAGGAGAAACTGCATCATCY			
13928	T	C	A	TGAGGATGATGCAGTTTCTCCGAGGGCTGTCCCGGGAGCCCTCC			
13928	T	A	A	TGAGGATGATGCAGTTTCTCCTAGGGCTGTCCCGGGAGCCCTCC			
				CCTGCTCCAGGGAAGTCCAGGGCTCACATGACCCAAGGGGAGGGCTCCCGGGACAGCCCT[CA]GGAGAAACTGCATCATCCTCACTAATGATCCACTTCC			
13928	IS	[CA]		TCCTCAGGGAATAAAGGCTCAGG	ctg15815	X	
13936	I		S	CTCTTGACACTCCGCGTTACTCTCTGCACAGATTA			
13936	P	A	S	CGCGCCGAGGTGCTCTCCAAAGTGCTY			
13936	P	G	S	ATGACGTGGCAGACCGCTCTCCAAAGTGCY			
13936	T	A	S	AGCAAGCACTTTGGAGAGCAAATCTGTGCAGAGAGTAACGCGGAGTGTCAAGAGGT			
13936	T	G	S	AGCAAGCACTTTGGAGAGCGAATCTGTGCAGAGAGTAACGCGGAGTGTCAAGAGGT			
				TCCATGTGCCTGAGATCAAGAAAGACAAAAAGCCAGCCTGCAGCAAGCACTTTGGAGAGC[AG]AATCTGTGCAGAGAGTAACGCGGAGTGTCAAGAGGTGT			
13936	IS	[AG]		GCAGAAAATCCAAAGAAGGTAA	ctg25099	7	
13938	I		S	CTTCCTGGCTGTGCCCCCCGTT			
13938	P	C	S	ATGACGTGGCAGACGCTGGCCCCGGY			
13938	P	T	S	CGCGCCGAGGACTGGCCCCGGTY			
13938	T	C	S	CTGGACCGGGGCCAGCACGGGGGGCACAGCCAGGAAGCA			
13938	T	T	S	CTGGACCGGGGCCAGTACGGGGGGCACAGCCAGGAAGCA			
				CCTGGCTCCCATATGCCACGAACACTGCCTGTGAGCACCACTGGGCTGGACCGGGGCCAG[CT]ACGGGGGGCACAGCCAGGAAGCAGGCTGCAGCCTGG			
13938	IS	[CT]		CCTCATGCTCTGGGCTTCTCTCTT	ctg25099	7	
13948	I		A	AACTTGCTCTCGGTTTGCAAATGTAATTCCCTA			
13948	P	T	A	CGCGCCGAGGTCCCTGCACCCTGAY			
13948	P	C	A	ATGACGTGGCAGACCCCCTGCACCCTGY			
13948	T	T	A	GGGTTCAGGGTGCAGGGAAGGGAATTACATTTGCAAACCGAGAGCAAGTTAC			
13948	T	C	A	GGGTTCAGGGTGCAGGGGAGGGAATTACATTTGCAAACCGAGAGCAAGTTAC			
				CACCCAGCAAAACCCCTGAAGTACAAGTAACTTGCTCTCGGTTTGCAAATGTAATTCCCT[TC]CCCTGCACCCTGAACCCGTGGTCCTGGACCTCATCTGGG			
13948	IS	[TC]		GCCCACTCCGCTCGGATGCTC			
13951	I		S	GGTCAGAATAGAGGAAGATGATTGCCTTCCCCAAGATGAT			
13951	P	G	S	CGCGCCGAGGCAGATCATCTGTCCTGGGY			
13951	P	C	S	ATGACGTGGCAGACGAGATCATCTGTCCTGGGY			
13951	T	G	S	GACTCCCAGGACAGATGATCTGTCATCTTGGGGAAGGCAATCATCTTCCTCTATTCTGACCCT			
13951	T	C	S	GACTCCCAGGACAGATGATCTCTCATCTTGGGGAAGGCAATCATCTTCCTCTATTCTGACCCT			
				TGGGTCACCTGAACCCGGTTAACAGCAGCCCGTCCTGCTGACTCCCAGGACAGATGATCT[GC]TCATCTTGGGGAAGGCAATCATCTTCCTCTATTCTGAC			
13951	IS	[GC]		CCTGAGGCTGTTCCCTGGGCAG	ctg19247	7	
13952	I		S	GTGGTAGATGCTGCTGCTGCACAGCTCA			
13952	P	A	S	CGCGCCGAGGTGACTCCCGGTACTTGY			
13952	P	G	S	ATGACGTGGCAGACCGACTCCCGGTACTTY			
13952	T	A	S	TGACCAAGTACCGGGAGTCAGAGCTGTGCAGCAGCAGCATCTACCACCA			
13952	T	G	S	TGACCAAGTACCGGGAGTCGGAGCTGTGCAGCAGCAGCATCTACCACCA			
				CCAAGCTGCTTCGCCTGTGCCTGGCAGGTACCCCCTGGCAGTGACCAAGTACCGGGAGTC[AG]GAGCTGTGCAGCAGCAGCATCTACCACCAGAACGACC			
13952	IS	[AG]		CCTGGCACCCGCCCGTGGTCTTT	MULTIPLE	MULTIPLE	
13953	I		A	CAGCATCTACCACCAGAACGACCCCTGGT			
13953	P	G	A	ATGACGTGGCAGACGACCCGCCCGTGY			
13953	P	C	A	CGCGCCGAGGCACCCGCCCGTGY			
13953	T	G	A	AGACCACGGGCGGGTCCCAGGGGTCGTTCTGGTGGTAGATGCTGCT			
13953	T	C	A	AGACCACGGGCGGGTGCCAGGGGTCGTTCTGGTGGTAGATGCTGCT			
				ACCAAGTACCGGGAGTCAGAGCTGTGCAGCAGCAGCATCTACCACCAGAACGACCCCTGG[GC]ACCCGCCCGTGGTCTTTGAGCAGTTTCTTCACAACAAC			
13953	IS	[GC]		GAGAACATTGAAAATGAGGTAC	MULTIPLE	MULTIPLE	
13990	I		A	CAAGGCAGAGAATGCCAGGATGGTTGTGAACAA			
13990	P	T	A	CGCGCCGAGGTTGATAATGCCAAACTGGCY			
13990	P	C	A	ATGACGTGGCAGACCTGATAATGCCAAACTGGCY			
13990	T	T	A	GGCAGCCAGTTTGGCATTATCAATGTTCACAACCATCCTGGCATTCTCTGCCTTGGT			
13990	T	C	A	GGCAGCCAGTTTGGCATTATCAGTGTTCACAACCATCCTGGCATTCTCTGCCTTGGT			
				TGTGCCTTGGCCTACAGATTCTGTGTACCAAGGCAGAGAATGCCAGGATGGTTGTGAACA[TC]TGATAATGCCAAACTGGCTGCCGATGACTTCAGGGCCA			
13990	IS	[TC]		AGTGAGTTCAGTCGGGGGGCTG	ctg832	11	
13998	I		A	GGACCGGGCGGTGAGGGGAACA			
13998	P	C	A	ATGACGTGGCAGACCGAGGCCACCCGY			
13998	P	T	A	CGCGCCGAGGTGAGGCCACCCGY			
13998	T	C	A	AGTCCGGGTGGCCTCGGTTCCCCTCACCGCCCGGTCCAG			
13998	T	T	A	AGTCCGGGTGGCCTCAGTTCCCCTCACCGCCCGGTCCAG			

FIGURE 129E

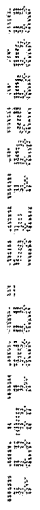
13998 IS	[CT]		CAAGAGGAACGGCCTCCCCCCAACTTAGCGGGTTATGCTGGACCGGGCGGTGAGGGGAAC[CT]GAGGCCACCCGGACTTTCCGCGGCTGAGGGCAGCGCCGGTTCCTTGCGGTCAAGATGCTG	ctg832	11	BRD2
14000 I		A	GTGGGGTGTGTGGGGATGGCGTGT			
14000 P	G	A	ATGACGTGGCAGACGGGTGGGTTCTCGTTY			
14000 P	A	A	CGCGCCGAGGAGGTGGGTTCTCGTTCY			
14000 T	G	A	GTCAGAACGAGAACCCACCCCACGCCATCCCCACACACCCCACTC			
14000 T	A	A	GTCAGAACGAGAACCCACCTCACGCCATCCCCACACACCCCACTC			
14000 IS	[GA]		ACGTAGGAGGACTGTCAGGTGTGTGGGAAGCAAGGGAGTGGGGTGTGTGGGGATGGCGTG[GA]GGTGGGTTCTCGTTCTGACAGTTTCTGAGCCTCGAGGGTTTCTTCGGGGACAGGGAGGAC	ctg832	11	
14005 I		S	GGGCCCCGGACAGCCCCAAT			
14005 P	C	S	ATGACGTGGCAGACGCTCTGCTTCTCCCCY			
14005 P	T	S	CGCGCCGAGGACTCTGCTTCTCCCCY			
14005 T	C	S	TGTGGGGGAGAAGCAGAGCTTGGGGCTGTCCGGGGCCCTG			
14005 T	T	S	TGTGGGGGAGAAGCAGAGTTTGGGGCTGTCCGGGGCCCTG			
14005 IS	[CT]		GGGGCAGTGTCTGGAGGGCCATGCCTGCCAGAGACTCAGGGGTGTGGGGGAGAAGCAGAG[CT]TTGGGGCTGTCCGGGGCCCTGGAACAGCGGTGCAGGCCTCCAGGACAACTGTGTGCCCCA	ctg45	8	
14011 I		A	CCTAGAGGTGAAGGGATGGTCTGTGGTTCATGAT			
14011 P	A	A	CGCGCCGAGGAATATTGAAATCATTATCTGGAGACY			
14011 P	C	A	ATGACGTGGCAGACCATATTGAAATCATTATCTGGAGACY			
14011 T	A	A	TGTGGTCTCCAGATAATGATTTCAATATTTCATGAACCACAGACCATCCCTTCACCTCTAGGGG			
14011 T	C	A	TGTGGTCTCCAGATAATGATTTCAATATGTCATGAACCACAGACCATCCCTTCACCTCTAGGGG			
14011 IS	[AC]		TCTTGTGTTCATCAGTGAAAATTTGCCCCTAGAGGTGAAGGGATGGTCTGTGGTTCATGA[AC]ATATTGAAATCATTATCTGGAGACCACAGGTGACAATGGGATGTTTACCTCAATGTCCAA	MULTIPLE	MULTIPLE	
14066 I		A	GCCCTCAGCAGACCAGGGGACCAA			
14066 P	T	A	CGCGCCGAGGTGTGTCCTGAGTGCCY			
14066 P	C	A	ATGACGTGGCAGACCGTGTCCTGAGTGCCY			
14066 T	T	A	AGGGGGCACTCAGGACACATGGTCCCCTGGTCTGCTGAGGGCTG			
14066 T	C	A	AGGGGGCACTCAGGACACGTGGTCCCCTGGTCTGCTGAGGGCTG			
14066 IS	[TC]		CAGCTGTCCCGATCAGTGACAGGCAGGCCTGCTGTCAGCCCTCAGCAGACCAGGGGACCA[TC]GTGTCCTGAGTGCCCCCTGTTCACCTTGCTGGTGAGGGAGGCTCTGTCACCCTAGATAGG	ctg16291	9	
14072 I		A	CCCAAATACACACAGACACACACACACACACT			
14072 P	G	A	ATGACGTGGCAGACGGACACACACACACCY			
14072 P	A	A	CGCGCCGAGGAGACACACACACACCCY			
14072 T	G	A	AAAAGGGTGTGTGTGTGTCCGTGTGTGTGTGTGTGTCTGTGTGTATTTGGGAG			
14072 T	A	A	AAAAGGGTGTGTGTGTGTCTGTGTGTGTGTGTGTGTCTGTGTGTATTTGGGAG			
14072 IS	[GA]		GCGCCCAGCCGTCTTATATAATTTTATCTCCCAAATACACACAGACACACACACACACAC[GA]GACACACACACACCCTTTTCCCTGGGTCACTGTTGGAACTAACGTAAAGCGGCTGTGCTG	ctg25099	7	
14093 I		S	CCTTGTGACAGTGGGGGAGTTTGACCTTCAA			
14093 P	A	S	CGCGCCGAGGTTGTTGCTCTCCATTTCAAY			
14093 P	G	S	ATGACGTGGCAGACCTGTTGCTCTCCATTTCAY			
14093 T	A	S	TAGTTTGAAATGGAGAGCAACAATGAAGGTCAAACTCCCCCACTGTCACAAGGGA			
14093 T	G	S	TAGTTTGAAATGGAGAGCAACAGTGAAGGTCAAACTCCCCCACTGTCACAAGGGA			
14093 IS	[AG]		GTGGATTTATTGCCCAGCCTGCCCACGGAGCAGGTAATTAGTTTGAAATGGAGAGCAACA[AG]TGAAGGTCAAACTCCCCCACTGTCACAAGGGACAGTTTGTTCCCAACAATTTCTCTCATA	ctg13740	5	
14101 I		S	CCTCAGCTCTACTCACCTGACTGCCCCATTC			
14101 P	A	S	CGCGCCGAGGTGTCACTCTCCGAGGAY			
14101 P	C	S	ATGACGTGGCAGACGGTCACTCTCCGAGGY			
14101 T	A	S	TGTGTCCTCGGAGAGTGACAAATGGGGCAGTCAGGTGAGTAGAGCTGAGGCC			
14101 T	C	S	TGTGTCCTCGGAGAGTGACCAATGGGGCAGTCAGGTGAGTAGAGCTGAGGCC			
14101 IS	[AC]		GATGCCTTCTAGTTTCAGGGAGTTCCTGTAGCTTTGATCTTTGTGTCCTCGGAGAGTGAC[AC]AATGGGGCAGTCAGGTGAGTAGAGCTGAGGCCATGAAGGCAGCCTTCTACCTTTTCCTCC			
14103 I		A	CGTCTTCTTTGGTATATTCCACATGTTTATCTATCAGGCTATCTATAAATT			
14103 P	C	A	CGCGCCGAGGCCTTCTGGTTCCCTCTTY			
14103 P	G	A	ATGACGTGGCAGACGCTTCTGGTTCCCTCTY			
14103 T	C	A	AGTGAAGAGGGAACCAGAAGGATTTATAGATAGCCTGATAGATAAACATGTGGAATATACCAAAGAAGACGAC			
14103 T	G	A	AGTGAAGAGGGAACCAGAAGCATTTATAGATAGCCTGATAGATAAACATGTGGAATATACCAAAGAAGACGAC			
14103 IS	[CG]		CTTTTGGAGTCGTCTTCTTTGGTATATTCCACATGTTTATCTATCAGGCTATCTATAAAT[CG]CTTCTGGTTCCCTCTTCACTGGATGAGACACACTTGATTCTGGCATGATGCAGAGGTCAC	ctg16114	X	
14115 I		A	CCAAGCCCAGGTGCAGGGGAGGT			
14115 P	G	A	ATGACGTGGCAGACGGCCAGCAGCACAY			
14115 P	A	A	CGCGCCGAGGAGCCAGCAGCACAY			
14115 T	G	A	GCCCTGTGCTGCTGGCCCCTCCCCTGCACCTGGGCTTGGAT			
14115 T	A	A	GCCCTGTGCTGCTGGCTCCTCCCCTGCACCTGGGCTTGGAT			
14115 IS	[GA]		GCTCACCCCCACCTCAGAAAAGCCACTGTCCCTCCCATCCAAGCCCAGGTGCAGGGGAGG[GA]GCCAGCAGCACAGGGCGGCCACCTACCCACGCAATCCTTCCGGTTCCAGTGGAGCCGCCT	ctg832	11	
14122 I		A	GGAGTAAGCCCCGGCTGGGAACACACC			
14122 P	T	A	CGCGCCGAGGTGTCTCAACCTGCTGCY			
14122 P	A	A	ATGACGTGGCAGACAGTCTCAACCTGCTGCY			
14122 T	T	A	TCCAGCAGCAGGTTGAGACAGTGTGTTCCCAGCCGGGGCTTACTCCTC			
14122 T	A	A	TCCAGCAGCAGGTTGAGACTGTGTGTTCCCAGCCGGGGCTTACTCCTC			
14122 IS	[TA]		GGGTGGTCTGCTTTTCCGGTTGAAGTGGTGGTGAGGAGTAAGCCCCGGCTGGGAACACAC[TA]GTCTCAACCTGCTGCTGGACCCATCCCCCTCTGTGTCCACATTATCTCAAACACAGCCAG	ctg17004	X	
14133 I		A	CCCTAAGAATGATTTCCTGTTTCTTTTGCCTTTTACATTCATTTTGGGGC			
14133 P	T	A	CGCGCCGAGGTTCCTCATGAAGACTTGTGY			
14133 P	G	A	ATGACGTGGCAGACGTCCTCATGAAGACTTGTGY			
14133 T	T	A	CTGTCACAAGTCTTCATGAGGAACCCCAAAATGAATGTAAAAGGCAAAAGAAACAGGAAATCATTCTTAGGGAA			
14133 T	G	A	CTGTCACAAGTCTTCATGAGGACCCCCAAAATGAATGTAAAAGGCAAAAGAAACAGGAAATCATTCTTAGGGAA			
14133 IS	[TG]		AAAAGCAGCTTCCCTAAGAATGATTTCCTGTTTCTTTTGCCTTTTACATTCATTTTGGGG[TG]TCCTCATGAAGACTTGTGACAGAACTAAAAGACCTTTCTAAGAACATCATGAATGGGAGA	ctg17004	X	
14141 I		A	GCAGTAAGCCATTTTAGTCATGACTGAAGGCTGAGTTAAGTGATT			
14141 P	G	A	ATGACGTGGCAGACGTAGTCATGAACTTAGCACAY			
14141 P	C	A	CGCGCCGAGGCTAGTCATGAACTTAGCACAY			
14141 T	G	A	GCAGTGTGCTAAGTTCATGACTACATCACTTAACTCAGCCTTCAGTCATGACTAAAATGGCTTACTGCAA			
14141 T	C	A	GCAGTGTGCTAAGTTCATGACTAGATCACTTAACTCAGCCTTCAGTCATGACTAAAATGGCTTACTGCAA			
14141 IS	[GC]		TTCTGAACCCATGTTTGCAGTAAGCCATTTTAGTCATGACTGAAGGCTGAGTTAAGTGAT[GC]TAGTCATGAACTTAGCACACTGCCCAGATGTGAAAGTGGTACACCATCACCATCTTGGTC	ctg15508	17	
14143 I		A	GCCCAGATGTGAAAGTGGTACACCATCACCATCC			
14143 P	T	A	CGCGCCGAGGTTGGTCTGTGGTACTCCY			
14143 P	G	A	ATGACGTGGCAGACGTGGTCTGTGGTACTCCY			
14143 T	T	A	AAACGGAGTACCACAGACCAAGATGGTGATGGTGTACCACTTTCACATCTGGGCAG			
14143 T	G	A	AAACGGAGTACCACAGACCACGATGGTGATGGTGTACCACTTTCACATCTGGGCAG			
14143 IS	[TG]		GTGATGTAGTCATGAACTTAGCACACTGCCCAGATGTGAAAGTGGTACACCATCACCATC[TG]TGGTCTGTGGTACTCCGTTTCCCTAATGCTTCTTGGAGGCCTGCTTTATTTCCTTTTCTT	ctg14243	19	
14145 I		A	GGCCGGGTCTTGTTCAGCTGCAAAACAT			
14145 P	C	A	ATGACGTGGCAGACCAAGGATGCGGGCY			
14145 P	A	A	CGCGCCGAGGAAAGGATGCGGGCCY			
14145 T	C	A	AGTGGGCCCGCATCCTTGTGTTTTGCAGCTGAACAAGACCCGGCCCT			
14145 T	A	A	AGTGGGCCCGCATCCTTTTGTTTTGCAGCTGAACAAGACCCGGCCCT			

FIGURE 129E



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FIGURE 129E



				GTAGGAGATAATTGAGGTTAAATAAGGTCACTAGGGCTGGGCTCTGATCTGATGGGACTG[AT]TGTCTTTACATGAAGAGGAAGAGACACCAGTGGGGCTC			
14262 IS	[AT]			TTGTCTGGGGAAAAGGCAGAGT	ctg2846	11	
14274 I			S	CCCCCGTATTCTGCATTGGTCATTTTGCCTCACC			
14274 P	C		S	ATGACGTGGCAGACGCCAAACAGAAGGCAAY			
14274 P	A		S	CGCGCCGAGGTCCAAACAGAAGGCAAAGY			
14274 T	C		S	CTAACTTTGCCTTCTGTTTGGCGTGAGGCAAAATGACCAATGCAGAATACGGGGGTG			
14274 T	A		S	CTAACTTTGCCTTCTGTTTGGAGTGAGGCAAAATGACCAATGCAGAATACGGGGGTG			
				AAAGTCAGGAGACTTGGCTTTCAGGCTTAACAGCAAATTCTAACTTTGCCTTCTGTTTGG[CA]GTGAGGCAAAATGACCAATGCAGAATACGGGGGTGTGGA			
14274 IS	[CA]			GCCCATTGTTTCTGGACAACT			
14277 I			S	CCATCTCCTTTTGTCTTTGAGAGCCTTTACCACTGAAAAAACAAA			
14277 P	G		S	ATGACGTGGCAGACCGGCTAGTGTTTGAGTGY			
14277 P	A		S	CGCGCCGAGGTGGCTAGTGTTTGAGTGAY			
14277 T	G		S	GTTATCACTCAAACACTAGCCGTTGTTTTTTCAGTGGTAAAGGCTCTCAAAGACAAAAGGAGATGGTA			
14277 T	A		S	GTTATCACTCAAACACTAGCCATTGTTTTTTCAGTGGTAAAGGCTCTCAAAGACAAAAGGAGATGGTA			
				TTAATATATTAAAGTGCTTAGAACAGTGTCCGGCACAAAGTTATCACTCAAACACTAGCC[GA]TTGTTTTTTCAGTGGTAAAGGCTCTCAAAGACAAAAGGAG			
14277 IS	[GA]			ATGGTAGATAAGAGTGAGAG	ctg3461	17	
14287 I			A	GGCTGCTCTGCAGAAGGGGCTGGAA			
14287 P	T		A	CGCGCCGAGGTGGTCACGCTCCGY			
14287 P	C		A	ATGACGTGGCAGACCGGTCACGCTCCGY			
14287 T	T		A	GCCACGGAGCGTGACCATCCAGCCCCTTCTGCAGAGCAGCCAA			
14287 T	C		A	GCCACGGAGCGTGACCGTCCAGCCCCTTCTGCAGAGCAGCCAA			
				ACAGCAGACCAGAGGAGGCATTGAAGCTCTGGTTTTGGCTGCTCTGCAGAAGGGGCTGGA[TC]GGTCACGCTCCGTGGCCTGCAAGCTGCCGAGAGGACA			
14287 IS	[TC]			AGGGGTTTGGCTGGAGGAAAGTC	ctg15140	12	
14293 I			S	CCACTCAGCTGGGCTGTATTTTCCCCACATA			
14293 P	G		S	ATGACGTGGCAGACCAATTCTTTGTGCAGGGGY			
14293 P	A		S	CGCGCCGAGGTAATTCTTTGTGCAGGGGY			
14293 T	G		S	ATCACCCCTGCACAAAGAATTGATGTGGGGAAAATACAGCCCAGCTGAGTGGTC			
14293 T	A		S	ATCACCCCTGCACAAAGAATTAATGTGGGGAAAATACAGCCCAGCTGAGTGGTC			
				AACCTATGAAGAACTGCACCTCTTCAATCCCATTCCCCAATCACCCCTGCACAAAGAATT[GA]ATGTGGGGAAAATACAGCCCAGCTGAGTGGTCCAAAACT			
14293 IS	[GA]			GTGGTCCTGGGACCAGCAGCT	ctg15944	11	
14300 I			A	GCGTCCCCCTGCCTCAGGGAAGT			
14300 P	C		A	CGCGCCGAGGCCCCTCGCCTTGCY			
14300 P	G		A	ATGACGTGGCAGACGCCCTCGCCTTGCY			
14300 T	C		A	CATGGCAAGGCGAGGGGCTTCCCTGAGGCAGGGGGACGCCC			
14300 T	G		A	CATGGCAAGGCGAGGGCCTTCCCTGAGGCAGGGGGACGCCC			
				TCCGGCCAGCCCTCTCCTCTCCTTGCCGGCTCCTCTGGGCGTCCCCCTGCCTCAGGGAAG[CG]CCCTCGCCTTGCCATGCTCACCCCTCGCCTGGCATCT			
14300 IS	[CG]			CTTCCATGACCTTCTCTTCCCAG	ctg15944	11	
14305 I			A	CGTCAAATCATCTTTTCATGATCCCAAGCTGAAAGGCAAC			
14305 P	G		A	ATGACGTGGCAGACGCCCTCCAGAGAGCY			
14305 P	T		A	CGCGCCGAGGTCCCTCCAGAGAGCGY			
14305 T	G		A	ATAACGCTCTCTGGAGGGCTTGCCTTTCAGCTTGGGATCATGAAAAGATGATTTGACGCT			
14305 T	T		A	ATAACGCTCTCTGGAGGGATTGCCTTTCAGCTTGGGATCATGAAAAGATGATTTGACGCT			
				GTCGGAGACCATGAGAAACAGCGTCAAATCATCTTTTCATGATCCCAAGCTGAAAGGCAA[GT]CCCTCCAGAGAGCGTTATGTGACCCACAACCGAGCACAT			
14305 IS	[GT]			TGGTGACAGACCTTCGGGGCC	ctg15944	11	EDN1
14307 I			A	TGGAGCCTGTCACAAAATGCCTGTCTGCAT			
14307 P	C		A	CGCGCCGAGGCTCATGCTCTCCCTGAAY			
14307 P	G		A	ATGACGTGGCAGACGTCATGCTCTCCCTGAY			
14307 T	C		A	GCATTTCAGGGAGAGCATGAGTGCAGACAGGCATTTTGTGACAGGCTCCAGG			
14307 T	G		A	GCATTTCAGGGAGAGCATGACTGCAGACAGGCATTTTGTGACAGGCTCCAGG			
				TTGAGCCACTGAGGACTGGAGGAAGGGCCCCTGGAGCCTGTCACAAAATGCCTGTCTGCA[CG]TCATGCTCTCCCTGAAATGCCACAGATCAGACAAGCAC			
14307 IS	[CG]			CTTGCCCTGGTCATGAAGGCCC	ctg15064	7	
14311 I			A	CCAAACCCCGACAACTGGGGTAGCCAT			
14311 P	G		A	ATGACGTGGCAGACGAAGCACTGCTTAGTGTAGY			
14311 P	C		A	CGCGCCGAGGCAAGCACTGCTTAGTGTAGY			
14311 T	G		A	TCTGCTACACTAAGCAGTGCTTCTGGCTACCCCAGTTGTCGGGGTTTGGGG			
14311 T	C		A	TCTGCTACACTAAGCAGTGCTTGTGGCTACCCCAGTTGTCGGGGTTTGGGG			
				ACCAAGTGAGCTTGCCCCTTTGCACCTCAACACCCCAAACCCCGACAACTGGGGTAGCCA[GC]AAGCACTGCTTAGTGTAGCAGATGGTCCGGGGGTGGG			
14311 IS	[GC]			GCAGATGGGGGATTCTGGAACTC	ctg15064	7	
14312 I			A	ACTGAGTACCTGCCATGTAAGCTTCAAAAGACATA			
14312 P	C		A	ATGACGTGGCAGACCACCTCCTTGGACCTTY			
14312 P	T		A	CGCGCCGAGGTACCTCCTTGGACCTTTACY			
14312 T	C		A	TGTTGTAAAGGTCCAAGGAGGTGATGTCTTTTGAAGCTTACATGGCAGGTACTCAGTTT			
14312 T	T		A	TGTTGTAAAGGTCCAAGGAGGTAATGTCTTTTGAAGCTTACATGGCAGGTACTCAGTTT			
				TAGAGGCAGACAGGGAACCAGTATAAACTGAGTACCTGCCATGTAAGCTTCAAAAGACAT[CT]ACCTCCTTGGACCTTTACAACAACCCTATTCCCATTTAAG			
14312 IS	[CT]			AAGTTAAATCACTTGGCCCA	ctg15907	6	
14314 I			A	ACAGCAGGCAGGACCCCACCTGTCT			
14314 P	A		A	CGCGCCGAGGACCTGGGAACTTGCAY			
14314 P	C		A	ATGACGTGGCAGACCCCTGGGAACTTGCAY			
14314 T	A		A	TACTTGCAAGTTCCCAGGTGACAGGTGGGGTCCTGCCTGCTGTTG			
14314 T	C		A	TACTTGCAAGTTCCCAGGGGACAGGTGGGGTCCTGCCTGCTGTTG			
				AATAGTTTGAATTAAAAGTCGGCATTCGTTGTCACAACAGCAGGCAGGACCCCACCTGTC[AC]CCTGGGAACTTGCAAGTATGAACTCTGGGGCTGGACTG			
14314 IS	[AC]			GGGTAGGGGAGTAACTGTCTCT	ctg15907	6	
14322 I			S	GCAAACACCGGTCCGTGTCGCCCT			
14322 P	C		S	ATGACGTGGCAGACGTGTGGCTGCTCCAY			
14322 P	T		S	CGCGCCGAGGATGTGGCTGCTCCAAY			
14322 T	C		S	CATCTTGGAGCAGCCACACGGGCGACACGGACCGGTGTTTGCAT			
14322 T	T		S	CATCTTGGAGCAGCCACATGGGCGACACGGACCGGTGTTTGCAT			
				GCATCTCGGAGCAGCCACACGGGCGACACGCACCGGTGTTTGCATCTTGGAGCAGCCACA[CT]GGGCGACACGGACCGGTGTTTGCATCTCGGAGCAGC			
14322 IS	[CT]			CACACGGCTGACACGGACCGGGGT	ctg13206	14	
14335 I			S	GAATGCACAGAGCCCTGGGACACCTTCATT			
14335 P	T		S	CGCGCCGAGGAAATGTTAATACCATCATCATTGTY			
14335 P	C		S	ATGACGTGGCAGACGAATGTTAATACCATCATCATTGTY			
14335 T	T		S	TGGGACAATGATGATGGTATTAACATTTATGAAGGTGTCCCAGGGCTCTGTGCATTCTG			
14335 T	C		S	TGGGACAATGATGATGGTATTAACATTCATGAAGGTGTCCCAGGGCTCTGTGCATTCTG			
				CAACCTAGGTGGCCTTGGCATATTCTCTATTAGTGGGACAATGATGATGGTATTAACATT[TC]ATGAAGGTGTCCCAGGGCTCTGTGCATTCTGGAGGCAGT			
14335 IS	[TC]			GCCATGGACTAAATATATCCT	ctg13206	14	
14348 I			A	GATTCCACCTCTCTCTGGGTCCACTCTGTGAA			
14348 P	C		A	ATGACGTGGCAGACCGCCAAGCAGATGACY			
14348 P	T		A	CGCGCCGAGGTGCCAAGCAGATGACAY			
14348 T	C		A	GCTCTGTCATCTGCTTGGCGTCACAGAGTGGACCCAGAGAGAGGTGGAATCCC			
14348 T	T		A	GCTCTGTCATCTGCTTGGCATCACAGAGTGGACCCAGAGAGAGGTGGAATCCC			
				AGCGGCTTTTCTCTCCTCTTTCCAGAGGGGATTCCACCTCTCTCTGGGTCCACTCTGTGA[CT]GCCAAGCAGATGACAGAGCAGGGATTAAGGAGGGAAGG			
14348 IS	[CT]			AAGGATTAAAAAATTTAACAT	ctg25099	7	
14349 I			S	GTGTAAATCACTCAACGGAGGCCGTGGTTCTGA			
14349 P	A		S	CGCGCCGAGGTCTCATCTTCAGCTATAGAAAGY			
14349 P	G		S	ATGACGTGGCAGACCCTCATCTTCAGCTATAGAAAGY			
14349 T	A		S	GGAACTTTCTATAGCTGAAGATGAGACAGAACCACGGCCTCCGTTGAGTGATTTACACGG			
14349 T	G		S	GGAACTTTCTATAGCTGAAGATGAGGCAGAACCACGGCCTCCGTTGAGTGATTTACACGG			

FIGURE 129E

				CGCTTCTTTTCATTTCCTCTCCTGATGAGAAAATGGGAACTTTCTATAGCTGAAGATGAG[AG]CAGAACCACGGCCTCCGTTGAGTGATTTACACGGATGAT			
14349	IS	[AG]		CTCACCTCTGGCCGTGCCAGC	ctg22fin4	22	
14354	I		S	GAATGAAAGCATACACAGGCTCATGCACATTCACCTCA			
14354	P	A	S	CGCGCCGAGGTGCACGTTGGAGCCY			
14354	P	G	S	ATGACGTGGCAGACCGCACGTTGGAGCY			
14354	T	A	S	CAGAGGCTCCAACGTGCAGAGGTGAATGTGCATGAGCCTGTGTATGCTTTCATTCAT			
14354	T	G	S	CAGAGGCTCCAACGTGCGGAGGTGAATGTGCATGAGCCTGTGTATGCTTTCATTCAT			
				TCTGTTCTTCTCTGCTGCAGGGAAAGCCCTGACAAGGCCTGCACAGAGGCTCCAACGTGC[AG]GAGGTGAATGTGCATGAGCCTGTGTATGCTTTCATTCA			
14354	IS	[AG]		TTCAAGTATTCAGTGAACGCAT			
14355	I		A	CTTGTCACTTGGGATTCCGGGTCAGATTTTCTAGGTC			
14355	P	A	A	CGCGCCGAGGATGTCATTTTGGCTGCTY			
14355	P	T	A	ATGACGTGGCAGACTTGTCATTTTGGCTGCTY			
14355	T	A	A	ACAGAGCAGCCAAAATGACATACCTAGAAAATCTGACCCGGAATCCCAAGTGACAAGCC			
14355	T	T	A	ACAGAGCAGCCAAAATGACAAACCTAGAAAATCTGACCCGGAATCCCAAGTGACAAGCC			
				CATTTGCTGCTTTAACCTTTAAGGCTTGTCACTTGGGATTCCGGGTCAGATTTTCTAGGT[AT]TGTCATTTTGGCTGCTCTGTGGCTAATCCTCACATATCCC			
14355	IS	[AT]		TTCTGATCATGTCGGCTGGT			
14361	I		A	CAAGCCCTCCTGGGCTGATTCATGACTTCAT			
14361	P	A	A	CGCGCCGAGGACCTGTCTTGTTTCTGGAY			
14361	P	G	A	ATGACGTGGCAGACGCCTGTCTTGTTTCTGGY			
14361	T	A	A	TTTCTCCAGAAACAAGACAGGTTGAAGTCATGAATCAGCCCAGGAGGGCTTGGA			
14361	T	G	A	TTTCTCCAGAAACAAGACAGGCTGAAGTCATGAATCAGCCCAGGAGGGCTTGGA			
				GGCCTTGCGCTAGGTAGCCATGAGGTTGTCCAAGCCCTCCTGGGCTGATTCATGACTTCA[AG]CCTGTCTTGTTTCTGGAGAAATTCACTTTCACAGGTCAG			
14361	IS	[AG]		CAGACAGGGCATGACCAGGGC	ctg18433	19	
14364	I		A	CCAGGAGCGCAACGTTCACACTTGAATCCT			
14364	P	G	A	ATGACGTGGCAGACGGTGGTGTTGCGTAAGY			
14364	P	A	A	CGCGCCGAGGAGTGGTGTTGCGTAAGY			
14364	T	G	A	ATTGCTTACGCAACACCACCGGATTCAAGTGTGAACGTTGCGCTCCTGGCT			
14364	T	A	A	ATTGCTTACGCAACACCACTGGATTCAAGTGTGAACGTTGCGCTCCTGGCT			
				GTTCTTGGCTATCCTGGCGTCCCCATAGTAGCCAGGAGCGCAACGTTCACACTTGAATCC[GA]GTGGTGTTGCGTAAGCAATTCCTACACTGGCCAGTGAC			
14364	IS	[GA]		TTCATCACAATCTTCAAAGATC	ctg18433	19	LAMA4
14369	I		A	CAAGAGAAAGTGGTGAAGAGCAGAGGTTCCAAGGTTA			
14369	P	C	A	ATGACGTGGCAGACCTGTGACAGGCTGTTGY			
14369	P	T	A	CGCGCCGAGGTTGTGACAGGCTGTTGY			
14369	T	C	A	TAACCAACAGCCTGTCACAGAACCTTGGAACCTCTGCTCTTCACCACTTTCTCTTGCC			
14369	T	T	A	TAACCAACAGCCTGTCACAAAACCTTGGAACCTCTGCTCTTCACCACTTTCTCTTGCC			
				GGTCTAGGGCAGGGGTGACGGAGGCAAGAGAAAGTGGTGAAGAGCAGAGGTTCCAAGGTT[CT]TGTGACAGGCTGTTGGTTATCAGGTCAGCTCCCTTTC			
14369	IS	[CT]		TTGACATCTCAAGAGCTGGCTTC	ctg_na	NA	
14374	I		S	TGGCCTCACGGCAACTTGCTGATCTTTACTGT			
14374	P	C	S	ATGACGTGGCAGACGTCACATTGCTGGTTGTY			
14374	P	T	S	CGCGCCGAGGATCACATTGCTGGTTGTACY			
14374	T	C	S	AGATGTACAACCAGCAATGTGACCAGTAAAGATCAGCAAGTTGCCGTGAGGCCAGC			
14374	T	T	S	AGATGTACAACCAGCAATGTGATCAGTAAAGATCAGCAAGTTGCCGTGAGGCCAGC			
				ATTGAGGAAGACTAACAATAAACAAAATAACCCGGGGCAGATGTACAACCAGCAATGTGA[CT]CAGTAAAGATCAGCAAGTTGCCGTGAGGCCAGCAAATGA			
14374	IS	[CT]		GCTGATTGGCCCAAGTTAGTT	ctg_na	NA	
16291	I		S	CCTGGACCCCGGTCCCCTGCC			
16291	P	A	S	CGCGCCGAGGTCCAGAGTCCCCTTTGY			
16291	P	T	S	ATGACGTGGCAGACACCAGAGTCCCCTTTGY			
16291	T	A	S	GCCACAAAGGGGACTCTGGAGCAGGGGACCGGGGTCCAGGCT			
16291	T	T	S	GCCACAAAGGGGACTCTGGTGCAGGGGACCGGGGTCCAGGCT			
				GGGTGGGGCGAATGGAGAGTCAGGGGCCCGCTCAATGCTGAGCCACAAAGGGGACTCTGG[AT]GCAGGGGACCGGGGTCCAGGCTTACCCTGGGTCCTA			
16291	IS	[AT]		GGCTAGCCCTTCCCTGACGGGCCA	ctg12567	16	
16293	I		A	GGACGTCGCGCTTTCTCAGGGAGCC			
16293	P	T	A	CGCGCCGAGGTTAGAAGCAGCCAGGGY			
16293	P	G	A	ATGACGTGGCAGACGTAGAAGCAGCCAGGGY			
16293	T	T	A	GAGGCCCTGGCTGCTTCTAAGCTCCCTGAGAAAGCGCGACGTCCCA			
16293	T	G	A	GAGGCCCTGGCTGCTTCTACGCTCCCTGAGAAAGCGCGACGTCCCA			
				TCCTCTGCAGCTGTCGCCTGGTTGGGCCCGGAAATGGGACGTCGCGCTTTCTCAGGGAGC[TG]TAGAAGCAGCCAGGGCCTCTCCAAGCCGCTGCTGTGA			
16293	IS	[TG]		CAGAAAGTGAGTGAGCTGCCGGA	ctg15064	7	
16313	I		S	GTCTTTCAAAGCGGAACGTGCCCCTACAGTA			
16313	P	G	S	ATGACGTGGCAGACCAGAAAGAAGCTGGTTTAGAY			
16313	P	A	S	CGCGCCGAGGTAGAAAGAAGCTGGTTTAGAAGY			
16313	T	G	S	GCTCCTTCTAAACCAGCTTCTTTCTGACTGTAGGGGCACGTTCCGCTTTGAAAGACCT			
16313	T	A	S	GCTCCTTCTAAACCAGCTTCTTTCTAACTGTAGGGGCACGTTCCGCTTTGAAAGACCT			
				GGGGCCATCCAGATCCTTAGGAGGCCTCAGCCCTGGCTCCTTCTAAACCAGCTTCTTTCT[GA]ACTGTAGGGGCACGTTCCGCTTTGAAAGACCTGATGGC			
16313	IS	[GA]		TCCCACTTTGATGTTCGGATTC	ctg13206	14	
16323	I		A	GGCCACTGTGCGCGTGCACCA			
16323	P	C	A	ATGACGTGGCAGACCGGCAGCCTCACCY			
16323	P	T	A	CGCGCCGAGGTGGCAGCCTCACCY			
16323	T	C	A	GAGTGGTGAGGCTGCCGGGTGCACGCGCACAGTGGCCCT			
16323	T	T	A	GAGTGGTGAGGCTGCCAGGTGCACGCGCACAGTGGCCCT			
				CCAGCCACAGGTGAGGTCTTCCAGCCCGTGACGCCCCCAGGGCCACTGTGCGCGTGCACC[CT]GGCAGCCTCACCACTCTGCGTGGGCTGGGGCTTCAC			
16323	IS	[CT]		GTTCAATCACTGTTACTCATTCAC	ctg22fin4	22	
16367	I		S	GCCGGGCGCGGTGGCTA			
16367	P	G	S	ATGACGTGGCAGACCATGTCTGTATTCCCAGCY			
16367	P	A	S	CGCGCCGAGGTATGTCTGTATTCCCAGCAY			
16367	T	G	S	AAAGTGCTGGGAATACAGACATGAGCCACCGCGCCCGGCCC			
16367	T	A	S	AAAGTGCTGGGAATACAGACATAAGCCACCGCGCCCGGCCC			
				ACTCCCGACCTAAGGTAATCTGCCCGCCTCGGCCTCCCAAAGTGCTGGGAATACAGACAT[GA]AGCCACCGCGCCCGGCCCCAATTCTCTTTCCCCAGTGA			
16367	IS	[GA]		CTCTTTCTTATCCTTCCCTCCT			
16368	I		S	GGGTTCCCCAAATAACTTTGACCACAAACCAAAAACATTTTTTTTAAATGTATTAACAAC			
16368	P	A	S	CGCGCCGAGGTTCCCCAAACAGGGGY			
16368	P	T	S	ATGACGTGGCAGACATCCCCAAACAGGGGY			
16368	T	A	S	AGTGCCCCTGTTTGGGGAATTGTTAATACATTTAAAAAAAATGTTTTTGGTTTGTGGTCAAAGTTATTTGGGGAACCCT			
16368	T	T	S	AGTGCCCCTGTTTGGGGATTTGTTAATACATTTAAAAAAAATGTTTTTGGTTTGTGGTCAAAGTTATTTGGGGAACCCT			
				TAATTCTCTATCTAGGTCAACATTTCCCTCAGTACGTTTCTCAGTGCCCCTGTTTGGGGA[AT]TTGTTAATACATTTAAAAAAAATGTTTTTGGTTTGTGGTCA			
16368	IS	[AT]		AAGTTATTTGGGGAACCCT	ctg15590	7	
16385	I		A	AGCTGGAGTGCAGGGGCACGATCTCT			
16385	P	G	A	ATGACGTGGCAGACGGCTCACTGCAACCY			
16385	P	A	A	CGCGCCGAGGAGCTCACTGCAACCTY			
16385	T	G	A	GCAGAGGTTGCAGTGAGCCGAGATCGTGCCCCTGCACTCCAGCTTG			
16385	T	A	A	GCAGAGGTTGCAGTGAGCTGAGATCGTGCCCCTGCACTCCAGCTTG			
				TTTTTTTTGAGACGGAGTCTAGCTCTGTTGCCCAAGCTGGAGTGCAGGGGCACGATCTC[GA]GCTCACTGCAACCTCTGCCTCCCGGGTTCAAGCGATTC			
16385	IS	[GA]		TCTTGCCTCAGCCTCCCGAGTA	ctg19247	7	
16417	I		A	CGTAGCAAAGACGGTTGGCTTTTGCTCATCGAAAATTACA			
16417	P	T	A	CGCGCCGAGGTCTAAACCTATTCCCCAACY			
16417	P	C	A	ATGACGTGGCAGACCCTAAACCTATTCCCCAACY			
16417	T	T	A	GACGGTTGGGGAATAGGTTTAGAGTAATTTTCGATGAGCAAAAGCCAACCGTCTTTGCTACGTC			
16417	T	C	A	GACGGTTGGGGAATAGGTTTAGGGTAATTTTCGATGAGCAAAAGCCAACCGTCTTTGCTACGTC			

FIGURE 129E

16417	IS	[TC]		ATTTGTGGGCTACGCAGGCGACGTAGCAAAGACGGTTGGCTTTTGCTCATCGAAAATTAC[TC]CTAAACCTATTCCCCAACCGTCCCCTCAAGGAAGCTGGG GCTGAAGAGGAGTAAAAGATG	ctg18037	7	
16455	I		A	CAGGGTTGGAGGCTAACAGGCTGATTCCTGT			
16455	P	A	A	CGCGCCGAGGAGATGAGCAGCCTCTAGY			
16455	P	G	A	ATGACGTGGCAGACGGATGAGCAGCCTCTAY			
16455	T	A	A	GCTGCTAGAGGCTGCTCATCTCAGGAATCAGCCTGTTAGCCTCCAACCCTGGG			
16455	T	G	A	GCTGCTAGAGGCTGCTCATCCCAGGAATCAGCCTGTTAGCCTCCAACCCTGGG			
16455	IS	[AG]		GAGGCACTAGGAGCTGCTGTCCCTGGACCCCAGGGTTGGAGGCTAACAGGCTGATTCCTG[AG]GATGAGCAGCCTCTAGCAGCAGGAACAAAGGAGGGG ACGGGAGGCCAAGGCCCCATCTGG	ctg13206	14	
16488	I		A	AGTCTAGGAAGCCCCCTTCTTCACATGTT			
16488	P	A	A	CGCGCCGAGGATGTTACATGTACCCCGAY			
16488	P	G	A	ATGACGTGGCAGACGTGTTACATGTACCCCGY			
16488	T	A	A	GAAATCGGGGTACATGTAACATACATGTGAAGAAGGGGGCTTCCTAGACTCA			
16488	T	G	A	GAAATCGGGGTACATGTAACACACATGTGAAGAAGGGGGCTTCCTAGACTCA			
16488	IS	[AG]		ATTTTTTAAGCCTGTTCTTCCATATTTAATTGAGTCTAGGAAGCCCCCTTCTTCACATGT[AG]TGTTACATGTACCCCGATTTCATGACTTTAATATTTTGCTTT TAATGATATGTAGGAAAT	ctg30	7	
16497	I		A	GGTATAGGAGGGGGCCGGGTGGAGA			
16497	P	C	A	ATGACGTGGCAGACCTGGAGACCTCTGGAAGY			
16497	P	T	A	CGCGCCGAGGTTGGAGACCTCTGGAAGY			
16497	T	C	A	ACCACTTCCAGAGGTCTCCAGCTCCACCCGGCCCCCTCCTATACCCC			
16497	T	T	A	ACCACTTCCAGAGGTCTCCAACTCCACCCGGCCCCCTCCTATACCCC			
16497	IS	[CT]		ACCCTCACTGCCCCCTAGCCCAGCCCCAGCATTTGGGGTATAGGAGGGGGCCGGGTGGAG[CT]TGGAGACCTCTGGAAGTGGTGGGGGCAGTACAGGAC ACAATGGACCTATTCTAATAACCT			
16551	I		A	CTGCCCAAGGCTGCTGCAGAGCTAAGA			
16551	P	T	A	CGCGCCGAGGTGGCTGACTGCCAGY			
16551	P	C	A	ATGACGTGGCAGACCGGCTGACTGCCAY			
16551	T	T	A	TCCCCTGGCAGTCAGCCACTTAGCTCTGCAGCAGCCTTGGGCAGGG			
16551	T	C	A	TCCCCTGGCAGTCAGCCGCTTAGCTCTGCAGCAGCCTTGGGCAGGG			
16551	IS	[TC]		TGGGAGAGGCAGAAGGAGTGCCTGGTAGGAGACCCTGCCCAAGGCTGCTGCAGAGCTAAG[TC]GGCTGACTGCCAGGGGAGACACCTTCTCTGGGCCAT GTGAGGTCAAATAAGCCACAAGTC	ctg15064	7	
16567	I		A	GGTTTTCAAACTCAAATGTGGAGGCCTGGAGACAGATT			
16567	P	G	A	ATGACGTGGCAGACGGGCTGGATGTGTTTAGY			
16567	P	A	A	CGCGCCGAGGAGGCTGGATGTGTTTAGTY			
16567	T	G	A	CTACACTAAACACATCCAGCCCATCTGTCTCCAGGCCTCCACATTTGAGTTTGAAAACCGG			
16567	T	A	A	CTACACTAAACACATCCAGCCTATCTGTCTCCAGGCCTCCACATTTGAGTTTGAAAACCGG			
16567	IS	[GA]		CCAGTCACCCAGCAGTCTGGTCCGGTTTTCAAACTCAAATGTGGAGGCCTGGAGACAGAT[GA]GGCTGGATGTGTTTAGTGTAGGTGACAGGTGCAGACAG CTTCACCAAGGCAATGTCATAG	ctg15064	7	PRSS21
16593	I		S	GTAAAGTCAGACTCTATTACCAAAAGGTCTTATTTCATAAATTCAAAGGATAAGATAA			
16593	P	A	S	CGCGCCGAGGTTGAACAAACCCAAACCCY			
16593	P	G	S	ATGACGTGGCAGACCTGAACAAACCCAAACCCY			
16593	T	A	S	GTGGGGGTTTGGGTTTGTTCAATATCTTATCCTTTGAATTTATGAAATAAGACCTTTTGGTAATAGAGTCTGACTTTACTA			
16593	T	G	S	GTGGGGGTTTGGGTTTGTTCAGTATCTTATCCTTTGAATTTATGAAATAAGACCTTTTGGTAATAGAGTCTGACTTTACTA			
16593	IS	[AG]		TTTTACCATATTAAGGTGAAATAGACTTTCTAATAAAATGTGGGGGTTTGGGTTTGTTCA[AG]TATCTTATCCTTTGAATTTATGAAATAAGACCTTTTGGTAAT AGAGTCTGACTTTACTAC	ctg14708	2	
16649	I		S	GAGGCAGGATTGCTTGAGCCCAAGAATTCAAGAA			
16649	P	A	S	CGCGCCGAGGTCAGCCTGGGCAACY			
16649	P	G	S	ATGACGTGGCAGACCCAGCCTGGGCAAY			
16649	T	A	S	CTATGTTGCCCAGGCTGATCTTGAATTCTTGGGCTCAAGCAATCCTGCCTCAG			
16649	T	G	S	CTATGTTGCCCAGGCTGGTCTTGAATTCTTGGGCTCAAGCAATCCTGCCTCAG			
16649	IS	[AG]		ATGCAAAATTTTTTTTAAAAAAATTTGTAGATATGGGGACTCCCTATGTTGCCCAGGCTG[AG]TCTTGAATTCTTGGGCTCAAGCAATCCTGCCTCAGCCTCA CAAAGCGCTGGAATTACAGG	ctg25099	7	
16658	I		S	CATTAGATTACAAGCTCTGCAAGAGCAGGATGTTTAAAAATTTCA			
16658	P	G	S	ATGACGTGGCAGACCAACATCTATCTTAGAACCTGGY			
16658	P	A	S	CGCGCCGAGGTAACATCTATCTTAGAACCTGGY			
16658	T	G	S	TGTGCCAGGTTCTAAGATAGATGTTGGAAATTTTTAAACATCCTGCTCTTGCAGAGCTTGTAATCTAATGAG			
16658	T	A	S	TGTGCCAGGTTCTAAGATAGATGTTAGAAATTTTTAAACATCCTGCTCTTGCAGAGCTTGTAATCTAATGAG			
16658	IS	[GA]		TTCATTATTCAAGGGAATTTGCTGAGCATCTATGATGTGCCAGGTTCTAAGATAGATGTT[GA]GAAATTTTTAAACATCCTGCTCTTGCAGAGCTTGTAATCTA ATGAGAACAATAGATAAGT	ctg17207	19	
16666	I		S	GAATTGAGAAGCAGTACAGTTTAATACTAAGAATGAAAGAGAAAAGCATTAGC			
16666	P	T	S	CGCGCCGAGGAAATTAGCTCAGGGCTAAAAY			
16666	P	A	S	ATGACGTGGCAGACTAATTAGCTCAGGGCTAAAATY			
16666	T	T	S	AGTCATTTTAGCCCTGAGCTAATTTCTAATGCTTTTCTCTTTCATTCTTAGTATTAAACTGTACTGCTTCTCAATTCAA			
16666	T	A	S	AGTCATTTTAGCCCTGAGCTAATTACTAATGCTTTTCTCTTTCATTCTTAGTATTAAACTGTACTGCTTCTCAATTCAA			
16666	IS	[TA]		AAAGTATAACAACAAAAAAGAAAAATCTCAGTGTTTAGTCATTTTAGCCCTGAGCTAATT[TA]CTAATGCTTTTCTCTTTCATTCTTAGTATTAAACTGTACTGC TTCTCAATTCAAGTGTGC	ctg13206	14	
16731	I		S	GCTGCCCTGGTGACACCCGGATTTTGTAA			
16731	P	G	S	ATGACGTGGCAGACCTTCTGGCCTTGAACTATGY			
16731	P	A	S	CGCGCCGAGGTTTCTGGCCTTGAACTATGY			
16731	T	G	S	CCTTCATAGTTCAAGGCCAGAAGTACAAAATCCGGGTGTCACCAGGGCAGCGC			
16731	T	A	S	CCTTCATAGTTCAAGGCCAGAAATACAAAATCCGGGTGTCACCAGGGCAGCGC			
16731	IS	[GA]		CGCCACAGCCGGGTGGTGAGAAGCAACAGCGGTTTATTCCTTCATAGTTCAAGGCCAGAA[GA]TACAAAATCCGGGTGTCACCAGGGCAGCGCTCCCTGG CTCTGGTGCTGTCCTTGCCCCTT	ctg15804	2	
16851	I		S	GAGCGGGCGCTGCGCGAGA			
16851	P	A	S	CGCGCCGAGGTGGGAGGAGGCAGAY			
16851	P	G	S	ATGACGTGGCAGACCGGGAGGAGGCAGY			
16851	T	A	S	GCGCTCTGCCTCCTCCCACTCGCGCAGCGCCCGCTCCT			
16851	T	G	S	GCGCTCTGCCTCCTCCCGCTCGCGCAGCGCCCGCTCCT			
16851	IS	[AG]		GGGCCGGGGCCAGGGTGGGGTGCGGCCGCACCTGCCTCTGGGCGCGCTCTGCCTCCTCCC[AG]CTCGCGCAGCGCCCGCTCCTCCGCCTGCCGCTGCA GCTGCTCCTCCTTCTCCCGGGCCTG	ctg15804	2	
16859	I		S	CTTTGGCCCCCAAAAATTACCAACAGCATGCTTGA			
16859	P	G	S	ATGACGTGGCAGACCATCATCTACCTCTGCATGY			
16859	P	A	S	CGCGCCGAGGTATCATCTACCTCTGCATGTY			
16859	T	G	S	AGTAACATGCAGAGGTAGATGATGCAAGCATGCTGTTGGTAATTTTTGGGGGCCAAAGGA			
16859	T	A	S	AGTAACATGCAGAGGTAGATGATACAAGCATGCTGTTGGTAATTTTTGGGGGCCAAAGGA			
16859	IS	[GA]		CCCACTCCCCCACCCCCCCCCCCGGCAAAAAGATTGAGTAACATGCAGAGGTAGATGAT[GA]CAAGCATGCTGTTGGTAATTTTTGGGGGCCAAAGGAAA CAGTGGGGCAAAAGTGTCAGAA	ctg14708	2	
16870	I		S	CCTTTGGGTGCAGAAATCCAGTCCTAGTCCTTTTTGAAT			
16870	P	C	S	ATGACGTGGCAGACGGTAATTTGTGAAGAAAATGTTGY			
16870	P	T	S	CGCGCCGAGGAGTAATTTGTGAAGAAAATGTTGTY			
16870	T	C	S	GATCACAACATTTTCTTCACAAATTACCTTCAAAAAGGACTAGGACTGGATTTCTGCACCCAAAGGCA			
16870	T	T	S	GATCACAACATTTTCTTCACAAATTACTTTCAAAAAGGACTAGGACTGGATTTCTGCACCCAAAGGCA			
16870	IS	[CT]		GAGTGGGTCTTAGTGTTGACTGGATCACTATGGGATCACAACATTTTCTTCACAAATTAC[CT]TTCAAAAAGGACTAGGACTGGATTTCTGCACCCAAAGGCA TTGCTCACTTTGATTGAGTT	ctg14708	2	
16905	I		A	GCTTGCTAATGTCAAAAGTTGTTCTTGATTCTTTTGGGCACTAGAAAAC			
16905	P	T	A	CGCGCCGAGGTCCATCGAAAGACCTACAY			
16905	P	G	A	ATGACGTGGCAGACGCCATCGAAAGACCTACY			
16905	T	T	A	CCTTTGTAGGTCTTTCGATGGATTTTCTAGTGCCCAAAAGAATCAAGAACAACTTTTGACATTAGCAAGCAT			
16905	T	G	A	CCTTTGTAGGTCTTTCGATGGCTTTTCTAGTGCCCAAAAGAATCAAGAACAACTTTTGACATTAGCAAGCAT			

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FIGURE 129E

				TTCCCTTAAAATGCTTGCTAATGTCAAAAGTTGTTCTTGATTCTTTTGGGCACTAGAAAA[TG]CCATCGAAAGACCTACAAAGGAGAAAGGAAATAACCGTGA		
16905 IS	[TG]			ATGATTTTAATACTGATGTG	ctg14708	2
16922 I			S	GCCTGTAATCCCAGCACTTTGGGAGGCCT		
16922 P	C		S	ATGACGTGGCAGACGAGGTGGGCAGATCAY		
16922 P	T		S	CGCGCCGAGGAAGGTGGGCAGATCATY		
16922 T	C		S	CTTCATGATCTGCCCACCTCGGCCTCCCAAAGTGCTGGGATTACAGGCCT		
16922 T	T		S	CTTCATGATCTGCCCACCTTGGCCTCCCAAAGTGCTGGGATTACAGGCCT		
				AGAGTTTCACCATGTTGGCCAGGCTGGTCTCGAACTCCTGACTTCATGATCTGCCCACCT[CT]GGCCTCCCAAAGTGCTGGGATTACAGGCCTCTGAGGCA		
16922 IS	[CT]			CTGCGCCCAGCCCAGTAGTAAG	ctg14708	2
17023 I			S	GAAGGATGGGATGAATGGATGATGGGCTGAGAGATTTA		
17023 P	G		S	ATGACGTGGCAGACCCATCTTGAATAAGTAGGGAAAY		
17023 P	A		S	CGCGCCGAGGTCATCTTGAATAAGTAGGGAAAGY		
17023 T	G		S	CAAGCTTTCCCTACTTATTCAAGATGGAAATCTCTCAGCCCATCATCCATTCATCCCATCCTTCTC		
17023 T	A		S	CAAGCTTTCCCTACTTATTCAAGATGAAAATCTCTCAGCCCATCATCCATTCATCCCATCCTTCTC		
				AGATAATTTCTCCAAGAGCCCCCAGAGATGTTTCCAAGCTTTCCCTACTTATTCAAGATG[GA]AAATCTCTCAGCCCATCATCCATTCATCCCATCCTTCTCTG		
17023 IS	[GA]			TTTATTGAGCACCTACTAT	ctg14708	2
17106 I			A	GAGGCGGAGGTTGCAGTGAGCTGAGATCT		
17106 P	G		A	ATGACGTGGCAGACGTGCCACTGCACTCY		
17106 P	A		A	CGCGCCGAGGATGCCACTGCACTCCY		
17106 T	G		A	GGCTGGAGTGCAGTGGCACGATCTCAGCTCACTGCAACCTCCGCCTCCT		
17106 T	A		A	GGCTGGAGTGCAGTGGCATGATCTCAGCTCACTGCAACCTCCGCCTCCT		
				GAGGCTGAGGCAGGAGAATCGCTTGAACCCAGGAGGCGGAGGTTGCAGTGAGCTGAGATC[GA]TGCCACTGCACTCCAGCCTGGGCAACAAGAGGAAAA		
17106 IS	[GA]			CTCCATCTCAAAATAAATACATAA	ctg14708	2
17375 I			S	GGCTCAAGCTAGCCTCCTGCCTCGGA		
17375 P	A		S	CGCGCCGAGGTCTCTCAAAGTGCTGGGY		
17375 P	G		S	ATGACGTGGCAGACCCTCTCAAAGTGCTGGY		
17375 T	A		S	TCATCCCAGCACTTTGAGAGACCGAGGCAGGAGGCTAGCTTGAGCCCT		
17375 T	G		S	TCATCCCAGCACTTTGAGAGGCCGAGGCAGGAGGCTAGCTTGAGCCCT		
				CTTCTTTGGCAAAATGGCCGGGGACAGTGGCTTACACCTGTCATCCCAGCACTTTGAGAG[AG]CCGAGGCAGGAGGCTAGCTTGAGCCCTGGAGTTCAAG		
17375 IS	[AG]			ACCAGCCTGGACAACACAGCGAG	ctg15842	19
17429 I			S	GGCTGGAGTGTGGGGGCTCGCT		
17429 P	C		S	ATGACGTGGCAGACGTGCGTGCACGTACY		
17429 P	T		S	CGCGCCGAGGATGCGTGCACGTACY		
17429 T	C		S	CAAGGTACGTGCACGCACGCGAGCCCCCACACTCCAGCCAG		
17429 T	T		S	CAAGGTACGTGCACGCATGCGAGCCCCCACACTCCAGCCAG		
				AGGCCAGCTGCAAATGGGCCCACCTGGCTCCAAGGGGAGAGACCAAGGTACGTGCACGCA[CT]GCGAGCCCCCACACTCCAGCCAGGGCCCCCACAGGC		
17429 IS	[CT]			AGGATCCTGGGCAGTCGCCACCTG	ctg16235	17
4082 I			S	ACATGTATCAAAATGTCCCCAAAGAAAAAAACATGTCCCAGCATAACA		
4082 P	A		S	CGCGCCGAGGTTCTAATTGTGTATGTTATTATACATGGCY		
4082 P	G		S	CGCGCCGAGGCTCTAATTGTGTATGTTATTATACATGGCY		
4082 T	A		S	TTTTGCCATGTATAATAACATACACAATTAGAAGTTATGCTGGGACATGTTTTTTTCTTTGGGGACATTTTGATACATGTAT		
4082 T	G		S	TTTTGCCATGTATAATAACATACACAATTAGAGGTTATGCTGGGACATGTTTTTTTCTTTGGGGACATTTTGATACATGTAT		
				TATTCATATTTCTTAAATTTTTGCCATGTATAATAACATACACAATTAGA[AG]GTTATGCTGGGACATGTTTTTTTCTTTGGGGACATTTTGATACATGTATA	ctg16235	17
4082 IS	[AG]			GGGTCAAGAGAGCTTTACTCCAGTGGTTATAATCAACTTAAAGGTCTTCCT		
6951 I			S	CGCGCCGAGGGTCCTCTCAGTGAAAATGAACCY		
6951 P	C		S	CGCGCCGAGGCTCCTCTCAGTGAAAATGAACCY		
6951 P	G		S	CCGGGGTTCATTTTCACTGAGAGGACGGAAGACCTTTAAGTTGATTATAACCACTGGAGTAAAGCTCTCTTGACCC		
6951 T	C		S	CCGGGGTTCATTTTCACTGAGAGGAGGGAAGACCTTTAAGTTGATTATAACCACTGGAGTAAAGCTCTCTTGACCC		
6951 T	G		S	GGGGAAGGCCAAATGATAAGAGGATCCGGGGTTCATTTTCACTGAGAGGA[CG]GGAAGACCTTTAAGTTGATTATAACCACTGGAGTAAAGCTCTCTTGACC		
6951 IS	[CG]			C	ctg16235	17
6963 I			A	CCAGCACGGCACGTGCCACCCT		
6963 P	C		A	CGCGCCGAGGCCGGAGCGGCGCY		
6963 P	G		A	CGCGCCGAGGGCGGAGCGGCGY		
6963 T	C		A	GCACGCGCCGCTCCGGGGGTGGCACGTGCCGTGCTGGCA		
6963 T	G		A	GCACGCGCCGCTCCGCGGGTGGCACGTGCCGTGCTGGCA		
				GGCGCGCGCTGCGAGCATGCGTGCCAGTGCCAGCACGGCACGTGCCACCC[CG]CGGAGCGGCGCGTGCCGCTGTGAGTCCGGCTGGTGGGGCGCGCA		
6963 IS	[CG]			GTGCGC	ctg16235	17
6973 I			A	ACAGCCAAGCCCAGATGCCAGTCTTGCA		
6973 P	C		A	CGCGCCGAGGCAGCAGCCTTCCTTTGC		
6973 P	T		A	CGCGCCGAGGTAGCAGCCTTCCTTTGC		
6973 T	C		A	GAAGGCAAAGGAAGGCTGCTGGCAAGACTGGCATCTGGGCTTGGCTGTGT		
6973 T	T		A	GAAGGCAAAGGAAGGCTGCTAGCAAGACTGGCATCTGGGCTTGGCTGTGT		
				TTTTCCCACAATAGAAAACACACACAGCCAAGCCCAGATGCCAGTCTTGC[CT]AGCAGCCTTCCTTTGCCTTCAAGATTAGGCCATCATGCTGTACCTCCAAC	ctg16235	17
6974 I			A	GGCTGAGGCTCCTCCAACCGGTCCTT		
6974 P	G		A	CGCGCCGAGGGGAGGGAGGTGTGGTTA		
6974 P	A		A	CGCGCCGAGGAGAGGGAGGTGTGGTTAG		
6974 T	G		A	CTCTCTAACCACACCTCCCTCCAGGACCGGTTGGAGGAGCCTCAGCCCA		
6974 T	A		A	CTCTCTAACCACACCTCCCTCTAGGACCGGTTGGAGGAGCCTCAGCCCA		
				CCCAGGGCTTGAGCTCAGGGGCCTGGGCTGAGGCTCCTCCAACCGGTCCT[GA]GAGGGAGGTGTGGTTAGAGAGCAGGAAACAGGTTTGGGTTTAGCCA		
6974 IS	[GA]			GAAG	ctg11	15
6984 I			A	GTACCTGCCCACTGCCTTCACACACCCT		
6984 P	A		A	CGCGCCGAGGAGGCCTGGGGTTTTAATTAC		
6984 P	C		A	CGCGCCGAGGCCGGCCTGGGGTTTTAATT		
6984 T	A		A	TGAAGTAATTAAAACCCCAGGCCTGGGTGTGTGAAGGCAGTGGGCAGGTACAC		
6984 T	C		A	TGAAGTAATTAAAACCCCAGGCCGGGGGTGTGTGAAGGCAGTGGGCAGGTACAC		
				AGGAAATACTGAAAGCAGTGTGTGTACCTGCCCACTGCCTTCACACACCC[AC]GGCCTGGGGTTTTAATTACTTCAAGCAGGCCAGCCTCAGGTGCCCACA		
6984 IS	[AC]			GC	ctg11	15
7010 I			A	AAGGCTTATTCCCATTCTGTGTATGGTTGTTTCCAATTATCTTTTTAATGT		
7010 P	A		A	CGCGCCGAGGAAAGCTTCATAATCAATAGTGGTTTTG		
7010 P	C		A	CGCGCCGAGGCAAGCTTCATAATCAATAGTGGTTTT		
7010 T	A		A	CTGCCAAAACCACTATTGATTATGAAGCTTTCATTAAAAAGATAATTGGAAACAACCATACACAGAATGGGAATAAGCCTT		
7010 T	C		A	CTGCCAAAACCACTATTGATTATGAAGCTTGCATTAAAAAGATAATTGGAAACAACCATACACAGAATGGGAATAAGCCTT		
				AAGGCTTATTCCCATTCTGTGTATGGTTGTTTCCAATTATCTTTTTAATG[AC]AAGCTTCATAATCAATAGTGGTTTTGGCAGCACCCGCCATCTATTGTAAT		
7010 IS	[AC]					
7064 I			A	CCTTCCCTTCTACACGGGCTTTGGATTTTGGT		
7064 P	C		A	CGCGCCGAGGCGGGAAAATCCCACGAG		
7064 P	A		A	CGCGCCGAGGAGGGAAAATCCCACGAGA		
7064 T	C		A	TCAGTCTCGTGGGATTTTCCCGCCAAAATCCAAAGCCCGTGTAGAAGGGAAGGTT		
7064 T	A		A	TCAGTCTCGTGGGATTTTCCCTCCAAAATCCAAAGCCCGTGTAGAAGGGAAGGTT		
				ACAAAAGCCTGATATTAAACCTTCCCTTCTACACGGGCTTTGGATTTTGG[CA]GGGAAAATCCCACGAGACTGACTAATATTTGTACAGACTAACAGTTTATA	MULTIPLE	MULTIPLE
7064 IS	[CA]					
7083 I			A	GCTGCACCCGCTTGGCGGACATTT		
7083 P	A		A	CGCGCCGAGGATAACTTCTGCCTCGCGA		
7083 P	G		A	CGCGCCGAGGGTAACTTCTGCCTCGCG		
7083 T	A		A	TTCCTCGCGAGGCAGAAGTTATAATGTCCGCCAAGCGGGTGCAGCCG		
7083 T	G		A	TTCCTCGCGAGGCAGAAGTTACAATGTCCGCCAAGCGGGTGCAGCCG		

FIGURE 129E

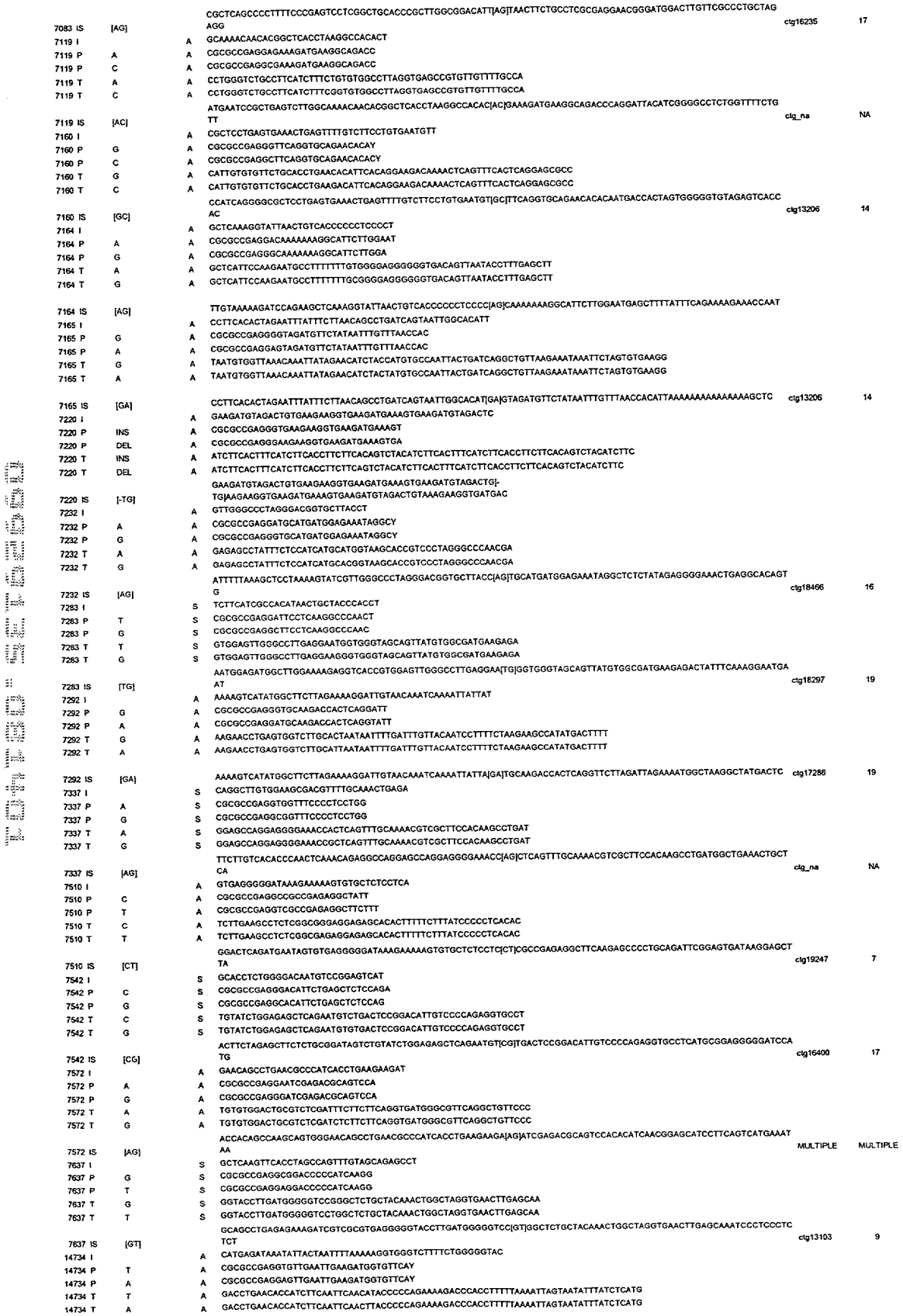

CGCTCAGCCCCTTTTCCCGAGTCCTCGGCTGCACCCGCTTGGCGGACATT[AG]TAACTTCTGCCTCGCGAGGAACGGGATGGACTTGTTCGCCCTGCTAG
7083 IS [AG] AGG ctg16235 17
7119 I A GCAAAACAACACGGCTCACCTAAGGCCACACT
7119 P A A CGCGCCGAGGAGAAAGATGAAGGCAGACC
7119 P C A CGCGCCGAGGCGAAAGATGAAGGCAGACC
7119 T A A CCTGGGTCTGCCTTCATCTTTCTGTGTGGCCTTAGGTGAGCCGTGTTGTTTTGCCA
7119 T C A CCTGGGTCTGCCTTCATCTTTCGGTGTGGCCTTAGGTGAGCCGTGTTGTTTTGCCA
ATGAATCCGCTGAGTCTTGGCAAAACAACACGGCTCACCTAAGGCCACAC[AC]GAAAGATGAAGGCAGACCCAGGATTACATCGGGGCCTCTGGTTTTCTG
7119 IS [AC] TT ctg_na NA
7160 I A CGCTCCTGAGTGAAACTGAGTTTTGTCTTCCTGTGAATGTT
7160 P G A CGCGCCGAGGGTTCAGGTGCAGAACACAY
7160 P C A CGCGCCGAGGCTTCAGGTGCAGAACACACY
7160 T G A CATTGTGTGTTCTGCACCTGAACACATTCACAGGAAGACAAAACTCAGTTTCACTCAGGAGCGCC
7160 T C A CATTGTGTGTTCTGCACCTGAAGACATTCACAGGAAGACAAAACTCAGTTTCACTCAGGAGCGCC
CCATCAGGGGCGCTCCTGAGTGAAACTGAGTTTTGTCTTCCTGTGAATGT[GC]TTCAGGTGCAGAACACACAATGACCACTAGTGGGGGTGTAGAGTCACC
7160 IS [GC] AC ctg13206 14
7164 I A GCTCAAAGGTATTAACTGTCACCCCCCTCCCCT
7164 P A A CGCGCCGAGGACAAAAAAAGGCATTCTTGGAAT
7164 P G A CGCGCCGAGGGCAAAAAAAGGCATTCTTGGA
7164 T A A GCTCATTCCAAGAATGCCTTTTTTTTGTGGGGAGGGGGGGTGACAGTTAATACCTTTGAGCTT
7164 T G A GCTCATTCCAAGAATGCCTTTTTTTGCGGGGAGGGGGGGTGACAGTTAATACCTTTGAGCTT
7164 IS [AG] TTGTAAAAAGATCCAGAAGCTCAAAGGTATTAACTGTCACCCCCCTCCCC[AG]CAAAAAAAGGCATTCTTGGAATGAGCTTTTATTTCAGAAAAGAAACCAAT
7165 I A CCTTCACACTAGAATTTATTTCTTAACAGCCTGATCAGTAATTGGCACATT
7165 P G A CGCGCCGAGGGGTAGATGTTCTATAATTTGTTTAACCAC
7165 P A A CGCGCCGAGGAGTAGATGTTCTATAATTTGTTTAACCAC
7165 T G A TAATGTGGTTAAACAAATTATAGAACATCTACCATGTGCCAATTACTGATCAGGCTGTTAAGAAATAAATTCTAGTGTGAAGG
7165 T A A TAATGTGGTTAAACAAATTATAGAACATCTACTATGTGCCAATTACTGATCAGGCTGTTAAGAAATAAATTCTAGTGTGAAGG
7165 IS [GA] CCTTCACACTAGAATTTATTTCTTAACAGCCTGATCAGTAATTGGCACAT[GA]GTAGATGTTCTATAATTTGTTTAACCACATTAAAAAAAAAAAAAAAGCTC ctg13206 14
7220 I A GAAGATGTAGACTGTGAAGAAGGTGAAGATGAAAGTGAAGATGTAGACTC
7220 P INS A CGCGCCGAGGGTGAAGAAGGTGAAGATGAAAGT
7220 P DEL A CGCGCCGAGGGAAGAAGGTGAAGATGAAAGTGA
7220 T INS A ATCTTCACTTTCATCTTCACCTTCTTCACAGTCTACATCTTCACTTTCATCTTCACCTTCTTCACAGTCTACATCTTC
7220 T DEL A ATCTTCACTTTCATCTTCACCTTCTTCAGTCTACATCTTCACTTTCATCTTCACCTTCTTCACAGTCTACATCTTC
GAAGATGTAGACTGTGAAGAAGGTGAAGATGAAAGTGAAGATGTAGACTG[-
7220 IS [-TG] TG]AAGAAGGTGAAGATGAAAGTGAAGATGTAGACTGTAAAGAAGGTGATGAC
7232 I A GTTGGGCCCTAGGGACGGTGCTTACCT
7232 P A A CGCGCCGAGGATGCATGATGGAGAAATAGGCY
7232 P G A CGCGCCGAGGGTGCATGATGGAGAAATAGGCY
7232 T A A GAGAGCCTATTTCTCCATCATGCATGGTAAGCACCGTCCCTAGGGCCCAACGA
7232 T G A GAGAGCCTATTTCTCCATCATGCACGGTAAGCACCGTCCCTAGGGCCCAACGA
ATTTTTAAAGCTCCTAAAAGTATCGTTGGGCCCTAGGGACGGTGCTTACC[AG]TGCATGATGGAGAAATAGGCTCTCTATAGAGGGGAAACTGAGGCACAGT
7232 IS [AG] G ctg18466 16
7283 I S TCTTCATCGCCACATAACTGCTACCCACCT
7283 P T S CGCGCCGAGGATTCCTCAAGGCCCAACT
7283 P G S CGCGCCGAGGCTTCCTCAAGGCCCAAC
7283 T T S GTGGAGTTGGGCCTTGAGGAATGGTGGGTAGCAGTTATGTGGCGATGAAGAGA
7283 T G S GTGGAGTTGGGCCTTGAGGAAGGGTGGGTAGCAGTTATGTGGCGATGAAGAGA
AATGGAGATGGCTTGGAAAAGAGGTCACCGTGGAGTTGGGCCTTGAGGAA[TG]GGTGGGTAGCAGTTATGTGGCGATGAAGAGACTATTTCAAAGGAATGA
7283 IS [TG] AT ctg18297 19
7292 I A AAAAGTCATATGGCTTCTTAGAAAAGGATTGTAACAAATCAAAATTATTAT
7292 P G A CGCGCCGAGGGTGCAAGACCACTCAGGATT
7292 P A A CGCGCCGAGGATGCAAGACCACTCAGGTATT
7292 T G A AAGAACCTGAGTGGTCTTGCATTAATAATTTTGATTTGTTACAATCCTTTTCTAAGAAGCCATATGACTTTT
7292 T A A AAGAACCTGAGTGGTCTTGCATTAATAATTTTGATTTGTTACAATCCTTTTCTAAGAAGCCATATGACTTTT
7292 IS [GA] AAAAGTCATATGGCTTCTTAGAAAAGGATTGTAACAAATCAAAATTATTA[GA]TGCAAGACCACTCAGGTTCTTAGATTAGAAAATGGCTAAGGCTATGACTC ctg17286 19
7337 I S CAGGCTTGTGGAAGCGACGTTTTGCAAACTGAGA
7337 P A S CGCGCCGAGGTGGTTTCCCCTCCTGG
7337 P G S CGCGCCGAGGCGGTTTCCCCTCCTGG
7337 T A S GGAGCCAGGAGGGGAAACCACTCAGTTTGCAAAACGTCGCTTCCACAAGCCTGAT
7337 T G S GGAGCCAGGAGGGGAAACCGCTCAGTTTGCAAAACGTCGCTTCCACAAGCCTGAT
TTCTTGTCACACCCAACTCAAACAGAGGCCAGGAGCCAGGAGGGGAAACC[AG]CTCAGTTTGCAAAACGTCGCTTCCACAAGCCTGATGGCTGAAACTGCT
7337 IS [AG] CA ctg_na NA
7510 I A GTGAGGGGGATAAAGAAAAAGTGTGCTCTCCTCA
7510 P C A CGCGCCGAGGCGCCGAGAGGCTATT
7510 P T A CGCGCCGAGGTCGCCGAGAGGCTTCTTT
7510 T C A TCTTGAAGCCTCTCGGCGGGAGGAGAGCACACTTTTTCTTTATCCCCCTCACAC
7510 T T A TCTTGAAGCCTCTCGGCGAGAGGAGAGCACACTTTTTCTTTATCCCCCTCACAC
GGACTCAGATGAATAGTGTGAGGGGGATAAAGAAAAAGTGTGCTCTCCT[C/T]CGCCGAGAGGCTTCAAGAGCCCCTGCAGATTCGGAGTGATAAGGAGCT
7510 IS [CT] TA ctg19247 7
7542 I S GCACCTCTGGGGACAATGTCCGGAGTCAT
7542 P C S CGCGCCGAGGGACATTCTGAGCTCTCCAGA
7542 P G S CGCGCCGAGGCACATTCTGAGCTCTCCAG
7542 T C S TGTATCTGGAGAGCTCAGAATGTCTGACTCCGGACATTGTCCCCAGAGGTGCCT
7542 T G S TGTATCTGGAGAGCTCAGAATGTGTGACTCCGGACATTGTCCCCAGAGGTGCCT
ACTTCTAGAGCTTCTCTGCGGATAGTCTGTATCTGGAGAGCTCAGAATGT[CG]TGACTCCGGACATTGTCCCCAGAGGTGCCTCATGCGGAGGGGGATCCA
7542 IS [CG] TG ctg16400 17
7572 I A GAACAGCCTGAACGCCCATCACCTGAAGAAGAT
7572 P A A CGCGCCGAGGAATCGAGACGCAGTCCA
7572 P G A CGCGCCGAGGGATCGAGACGCAGTCCA
7572 T A A TGTGTGGACTGCGTCTCGATTTCTTCTTCAGGTGATGGGCGTTCAGGCTGTTCCC
7572 T G A TGTGTGGACTGCGTCTCGATCTCTTCTTCAGGTGATGGGCGTTCAGGCTGTTCCC
ACCACAGCCAAGCAGTGGGAACAGCCTGAACGCCCATCACCTGAAGAAGA[AG]ATCGAGACGCAGTCCACACATCAACGGAGCATCCTTCAGTCATGAAAT
7572 IS [AG] AA MULTIPLE MULTIPLE
7637 I S GCTCAAGTTCACCTAGCCAGTTTGTAGCAGAGCCT
7637 P G S CGCGCCGAGGCGGACCCCCATCAAGG
7637 P T S CGCGCCGAGGAGGACCCCCATCAAGG
7637 T G S GGTACCTTGATGGGGGTCCGGGCTCTGCTACAAACTGGCTAGGTGAACTTGAGCAA
7637 T T S GGTACCTTGATGGGGGTCCTGGCTCTGCTACAAACTGGCTAGGTGAACTTGAGCAA
GCAGCCTGAGAGAAAGATCGTCGCGTGAGGGGGTACCTTGATGGGGGTCC[GT]GGCTCTGCTACAAACTGGCTAGGTGAACTTGAGCAAATCCCTCCCTC
7637 IS [GT] TCT ctg13103 9
14734 I A CATGAGATAAATATTACTAATTTTAAAAAGGTGGGTCTTTTCTGGGGGTAC
14734 P T A CGCGCCGAGGTGTTGAATTGAAGATGGTGTTCAY
14734 P A A CGCGCCGAGGAGTTGAATTGAAGATGGTGTTCAY
14734 T T A GACCTGAACACCATCTTCAATTCAACATACCCCCAGAAAAGACCCACCTTTTTAAAATTAGTAATATTTATCTCATG
14734 T A A GACCTGAACACCATCTTCAATTCAACTTACCCCCAGAAAAGACCCACCTTTTTAAAATTAGTAATATTTATCTCATG

FIGURE 129E

14734	IS	[TA]		CATGAGATAAATATTACTAATTTTAAAAAGGTGGGTCTTTTCTGGGGGTA[TA]GTTGAATTGAAGATGGTGTTCAGGTCAAGACAGTTTCTGGTCTTTTGGCC	ctg16820	16
14766	I		S	GCCTTTTCTGATGGTTGCAAATCCAATTTTCATGTTCTGCTTTGTGATAT		
14766	P	T	S	CGCGCCGAGGATGGGGCTGGGATCC		
14766	P	G	S	CGCGCCGAGGCTGGGGCTGGGATCC		
14766	T	T	S	TGCAGGATCCCAGCCCCATTATCACAAAGCAGAACATGAAAATTGGATTTGCAACCATCAGAAAAGGCT		
14766	T	G	S	TGCAGGATCCCAGCCCCAGTATCACAAAGCAGAACATGAAAATTGGATTTGCAACCATCAGAAAAGGCT		
14766	IS	[TG]		aatataaaaccagcagagaagggagttgtatgtgcaggatcccagcccca[TG]atcacaaagcagaacatgaaaattggatttgcaaccatcagaaaaggct	ctg13206	14
14781	I		S	CAGAATGCTCACGGGGAAAGAGAAGACACCACCA		
14781	P	A	S	CGCGCCGAGGTGGGCAGCTGACGC		
14781	P	G	S	CGCGCCGAGGCGGGCAGCTGACG		
14781	T	A	S	AGGGGCGTCAGCTGCCCAGGTGGTGTCTTCTCTTTCCCCGTGAGCATTCTGCA		
14781	T	G	S	AGGGGCGTCAGCTGCCCGGGTGGTGTCTTCTCTTTCCCCGTGAGCATTCTGCA		
14781	IS	[AG]		agaccccccacactgaccagtgacctcccaggaggggcgtcagctgccc[AG]ggtgggtgtcttctcttcccgtgagcattctgcacctctgactcccgct	ctg5212	19
14788	I		A	CCAGGTATGGTGGTGCATGCCTGTAATCCCATG		
14788	P	INS	A	CGCGCCGAGGCATCTACTCAGGAGGCTGA		
14788	P	DEL	A	CGCGCCGAGGCTACTCAGGAGGCTGAGG		
14788	T	INS	A	TCCTTCCTCAGCCTCCTGAGTAGATGATGGGATTACAGGCATGCACCACCATACCTGGCT		
14788	T	DEL	A	TCCTTCCTCAGCCTCCTGAGTAGATGGGATTACAGGCATGCACCACCATACCTGGCT		
14788	IS	[-ATC]		gaaaatacaaaaattagccaggtatggtggtgcatgcctgtaatcccatc[-ATC]tactcaggaggctgaggaaggagaattgcttgaacctgggaggcggaggt	ctg14583	1
14792	I		A	CTGATTTTTCCTAGAGTAACTTGGAAGTTAAAAAAGTGGAAAAAGCTTTGT		
14792	P	C	A	CGCGCCGAGGCGTATTAGGTGCCAAACCC		
14792	P	G	A	CGCGCCGAGGGGTATTAGGTGCCAAACCC		
14792	T	C	A	GAGTGGGTTTGGCACCTAATACGCAAAGCTTTTTCCACTTTTTTAACTTCCAAGTTACTCTAGGAAAAATCAG		
14792	T	G	A	GAGTGGGTTTGGCACCTAATACCCAAAGCTTTTTCCACTTTTTTAACTTCCAAGTTACTCTAGGAAAAATCAG		
14792	IS	[CG]		ctgatttttcctagaqtaacttggaagttaaaaaglggaaaagctttg[CG]gtattaggtgccaaacccactcagctctgctcaaacccctcttaatgc	ctg16820	16
14793	I		A	GCTGGGATTACAGGCATGAGCCACTGCGT		
14793	P	INS	A	CGCGCCGAGGCCTGGCCTCTCTTCTTACA		
14793	P	DEL	A	CGCGCCGAGGCTGGCCTCTCTTCTTACATATTTC		
14793	T	INS	A	TGTAGAAATATGTAAGAAGAGAGGCCAGGCGCAGTGGCTCATGCCTGTAATCCCAGCAC		
14793	T	DEL	A	TGTAGAAATATGTAAGAAGAGAGGCCAGCGCAGTGGCTCATGCCTGTAATCCCAGCAC		
14793	IS	[C-]		cctgcctcggcctcccaaagtgctgggattacaggcatgagccactgcgc[C-]tggcctctctttactatatttctacaactcctctagaatttggggtttg	ctg18743	16
14795	I		A	GGGCTGGAACCAGCTCCCAGCCTCC		
14795	P	G	A	CGCGCCGAGGGCCTCCCTTATCAAGCTC		
14795	P	T	A	CGCGCCGAGGTCCTCCCTTATCAAGCTCA		
14795	T	G	A	CCAGTGAGCTTGATAAGGGAGGCGAGGCTGGGAGCTGGTTCCAGCCCGC		
14795	T	T	A	CCAGTGAGCTTGATAAGGGAGGAGAGGCTGGGAGCTGGTTCCAGCCCGC		
14795	IS	[GT]		ctggccttcctcctgaacttggcgggctggaaccagctcccagcctc[GT]cctcccttatcaagctcactgggggcccacacagagctcccatccccacc		
14820	I		S	CTCTGTGGCTACAATAATTCTCAAAAACACACTTAAAGAGAGAGACCATGA		
14820	P	A	S	CGCGCCGAGGTAAGCTTTAACTCTTTGACCTTTTG		
14820	P	G	S	CGCGCCGAGGCAAGCTTTAACTCTTTGACCTTTT		
14820	T	A	S	GAAACAAAAGGTCAAAGAGTTAAAGCTTACATGGTCTCTCTCTTTAAGTGTGTTTTTGAGAATTATTGTAGCCACAGAG		
14820	T	G	S	GAAACAAAAGGTCAAAGAGTTAAAGCTTGCATGGTCTCTCTCTTTAAGTGTGTTTTTGAGAATTATTGTAGCCACAGAG		
14820	IS	[AG]		cttcaactgctgagaaaaagaaacaaaaggtcaaagagttaaagctt[AG]catggtctctctcttaagtgtgttttgagaattattgtagccacagag	MULTIPLE	MULTIPLE
14829	I		A	GCCCTGGGAGGGTGCTCCCTGTT		
14829	P	A	A	CGCGCCGAGGATATGCTTCCCACCATTCC		
14829	P	C	A	CGCGCCGAGGCTATGCTTCCCACCATTCC		
14829	T	A	A	CTCAGGAATGGTGGGAAGCATATACAGGGAGCACCCTCCCAGGGCAG		
14829	T	C	A	CTCAGGAATGGTGGGAAGCATAGACAGGGAGCACCCTCCCAGGGCAG		
14829	IS	[AC]		gaaagtcaccgctgggctggtgctccctgcccttgggagggtgctccctg[AC]atgcttcccaccattcctgagctctggcactgggagaattgaaccaaag	ctg16105	5
14835	I		S	AGTGTAGACTTTGAATTGCTGATCTTCTGATTTCTTTTCAAAAAGAAGCCT		
14835	P	T	S	CGCGCCGAGGAGAAGTCTGGAATTTTTAAATTGTGAAT		
14835	P	C	S	CGCGCCGAGGGGAAGTCTGGAATTTTTAAATTGTGA		
14835	T	T	S	GAAAATTCACAATTTAAAAATTCCAGACTTCTGGCTTCTTTTTGAAAAGAAATCAGAAGATCAGCAATTCAAAGTCTACACT		
14835	T	C	S	GAAAATTCACAATTTAAAAATTCCAGACTTCCGGCTTCTTTTTGAAAAGAAATCAGAAGATCAGCAATTCAAAGTCTACACT		
14835	IS	[TC]		atcaacatttaaaataaagaaaatttcacaatttaaaaattccagacttc[TC]ggcttctttttgaaaagaaatcagaagatcagcaattcaaagtctacact	ctg21fin5	21
14847	I		A	GGTGTGCACCTGCCTCTTCTGGTGTCTTCAT		
14847	P	A	A	CGCGCCGAGGAATAAGGTGTCCATTTCTCACTG		
14847	P	G	A	CGCGCCGAGGGATAAGGTGTCCATTTCTCACTG		
14847	T	A	A	GCATCAGTGAGAAATGGACACCTTATTTGAAGACACCAGAAGAGGCAGGTGCACACCCT		
14847	T	G	A	GCATCAGTGAGAAATGGACACCTTATCTGAAGACACCAGAAGAGGCAGGTGCACACCCT		
14847	IS	[AG]		cttaccagcacccagggagggtgtgcacctgcctcttctggtgtcttca[AG]ataaggtgtccatttctcactgatgcaatgcaggcttgactcattccagg	ctg22fin4	22
14869	I		S	CTCTTTGCTTTGCAATGCTCAGTTTGGTTGGTATTTATGCATAATGTTTGA		
14869	P	A	S	CGCGCCGAGGTCCACTGTGCTTCATACAAAG		
14869	P	G	S	CGCGCCGAGGCCCACTGTGCTTCATACAAA		
14869	T	A	S	AGTGCTTTGTATGAAGCACAGTGGACAAACATTATGCATAAATACCAACCAAACTGAGCATTGCAAAGCAAAGAG		
14869	T	G	S	AGTGCTTTGTATGAAGCACAGTGGGCAAACATTATGCATAAATACCAACCAAACTGAGCATTGCAAAGCAAAGAG		
14869	IS	[AG]		atggcatcictattacctaagtccttagtgcttgtatgaagcacagtgg[AG]caaacattatgcataaatacccaaccaaactgagcattgcaaagcaaagag	ctg16128	1
14879	I		A	AGGCATTGCCTGACTTGGCGCCT		
14879	P	C	A	CGCGCCGAGGCAGGCCTAAAAAGAACTCAGC		
14879	P	A	A	CGCGCCGAGGAAGGCCTAAAAAGAACTCAGC		
14879	T	C	A	TCATGCTGAGTTCTTTTTAGGCCTGGGCGCCAAGTCAGGCAATGCCTAA		
14879	T	A	A	TCATGCTGAGTTCTTTTTAGGCCTTGGCGCCAAGTCAGGCAATGCCTAA		
14879	IS	[CA]		gtacaaggaaactgttgttattattatgggcattgcctgacttggcgcc[CA]ggcctaaaaagaacticagcatgattggaagacccagagctcagaagccc	ctg22fin4	22
14884	I		A	CCTGGGCCATCTGGAGCCCCTGTGT		
14884	P	C	A	CGCGCCGAGGCCATGAGGGCCAAGC		
14884	P	A	A	CGCGCCGAGGACATGAGGGCCAAGC		
14884	T	C	A	GGGGGCTTGGCCCTCATGGCACAGGGGCTCCAGATGGCCCAGGCA		
14884	T	A	A	GGGGGCTTGGCCCTCATGTCACAGGGGCTCCAGATGGCCCAGGCA		
14884	IS	[CA]		caatgttgggtgtcctctctagtgcctgggccatctggagccccigtg[CA]catgagggccaagcccctgctccagtgagacccagcaggcccccaacctg	ctg13446	1
14895	I		A	GCGATAAGGCTGCAGTGAACACCCTTGAATATTAATT		
14895	P	C	A	CGCGCCGAGGCTTGATGCACTTCTCTGATTATGT		
14895	P	G	A	CGCGCCGAGGGTTGATGCACTTCTCTGATTATGT		
14895	T	C	A	AAGAACATAATCAGAGAAGTGCATCAAGATTAATATTCAAGGGTGTTCACTGCAGCCTTATCGCCA		
14895	T	G	A	AAGAACATAATCAGAGAAGTGCATCAACATTAATATTCAAGGGTGTTCACTGCAGCCTTATCGCCA		
14895	IS	[CG]		ttgtttttcaatggcgataaggctgcagtgaacaccctigaatattaat[CG]ttgatgcactictctgattatgtictiaaaatagaatcccagacacatgt	ctg22fin4	22
14897	I		A	ACTCACAAGGCCCCATGGCAAGCCCCC		
14897	P	G	A	CGCGCCGAGGGTCCCCTCACTGAACCC		
14897	P	T	A	CGCGCCGAGGTTCCCCTCACTGAACCC		
14897	T	G	A	ACAGGGGTTCAGTGAGGGGACGGGGCTTGCCATGGGCCTTGTGAGTTG		
14897	T	T	A	ACAGGGGTTCAGTGAGGGGAAGGGGCTTGCCATGGGCCTTGTGAGTTG		
14897	IS	[GT]		aaaacagccttcgaccccicccccaactcacaaggcccatggcaagcccc[GT]tcccctcactgaacccctgttcctgtctgaaaagcgagcccccgcagag	ctg15478	1
14898	I		A	CTGCAGGCCCTCCTGACCTCCCCT		
14898	P	G	A	CGCGCCGAGGGCAGCCTGTGCCC		
14898	P	C	A	CGCGCCGAGGCCAGCCTGTGCCCA		
14898	T	G	A	TTCATGGGCACAGGCTGCGGGGAGGTCAGGAGGGCCTGCAGCA		
14898	T	C	A	TTCATGGGCACAGGCTGGGGGGAGGTCAGGAGGGCCTGCAGCA		
14898	IS	[GC]		gtccacgagcccctggccctagtacctgctgcaggccctcctgacctcccc[GC]cagcctgtgcccatgaacgctggccctggtacctgctgcaggccctcctg	ctg15665	20
14899	I		A	GCATTCCTGGGTCCCCAAGGAGGAAATACTTCTCCT		

FIGURE 129E

14899 P	G	A	CGCGCCGAGGGTAGCTCTGCCCTGCC			
14899 P	C	A	CGCGCCGAGGCTAGCTCTGCCCTGCC			
14899 T	G	A	AGGGGGCAGGGCAGAGCTACGGAGAAGTATTTCCTCCTTGGGGACCCAGGAATGCCA			
14899 T	C	A	AGGGGGCAGGGCAGAGCTAGGGAGAAGTATTTCCTCCTTGGGGACCCAGGAATGCCA			
14899 IS	[GC]		tggaagcagccactggcattcctgggtcccccaggaggaaatacttctcc[GC]tagctctgccctgcccctcctccctggctccatagactgctccctgccc	ctg12559	6	
14918 I		S	CTCAGATTCCCTTCAGCTCTGAAATTCTGGGACTCTGACTAAAAT			
14918 P	INS	S	CGCGCCGAGGAGACAGATGGAGACACAGGTTT			
14918 P	DEL	S	CGCGCCGAGGAACAGATGGAGACACAGGGTTT			
14918 T	INS	S	ACAGCCCTGTGTCTCCATCTGTCTTTTTAGTCAGAGTCCCAGAATTTCAGAGCTGAAGGGAATCTGAGAG			
14918 T	DEL	S	ACAGCCCTGTGTCTCCATCTGTTTTTTAGTCAGAGTCCCAGAATTTCAGAGCTGAAGGGAATCTGAGAG			
14918 IS	[C-]		ccacaagtaacagggatttctggaccacacagcccctgtgtctccatctgt[C-]ttttagtcagagtcccagaatttcagagctgaagggaatctgagagata	ctg12559	6	
14920 I		S	TCTGTACTGAAAATACAAAAATTAGCTGAGCATGGTGGTGCACGA			
14920 P	A	S	CGCGCCGAGGTCTGTAATCCCAGCTACCC			
14920 P	G	S	CGCGCCGAGGCCTGTAATCCCAGCTACCC			
14920 T	A	S	TCCTGGGTAGCTGGGATTACAGACGTGCACCACCATGCTCAGCTAATTTTTGTATTTTCAGTACAGAGA			
14920 T	G	S	TCCTGGGTAGCTGGGATTACAGGCGTGCACCACCATGCTCAGCTAATTTTTGTATTTTCAGTACAGAGA			
14920 IS	[AG]		gggcttgagcgatctcctgcctcagcctcctgggtagctgggattacag[AG]cgtgcaccaccatgctcagctaatttttgtatttcagtacagagagagt	ctg18715	1	
14921 I		S	GCCGAGCATGCTTCTATGGACGTCACATCCATT			
14921 P	T	S	CGCGCCGAGGAGAAAACAGCCAATAAGCTCC			
14921 P	C	S	CGCGCCGAGGGAAAACAGCCAATAAGCTC			
14921 T	T	S	GGGAGGAGCTTATTGGCTGTTTTCTATGGATGTGACGTCCATAGAAGCATGCTCGGCAA			
14921 T	C	S	GGGAGGAGCTTATTGGCTGTTTTCCATGGATGTGACGTCCATAGAAGCATGCTCGGCAA			
14921 IS	[TC]		atcaccacactaaaaaacccccatccagggaggagcttatggctgtttc[TC]atggatgtgacgtccatagaagcatgctcggcaactgcacctgtacatat	ctg13446	1	
14923 I		A	GGCGGTCCCCATCCTGGGCCA			
14923 P	C	A	CGCGCCGAGGCCCACTCTAGACCCCC			
14923 P	T	A	CGCGCCGAGGTCCACTCTAGACCCCCC			
14923 T	C	A	GGTGGGGGGGTCTAGAGTGGGGGCCCAGGATGGGGACCGCCCT			
14923 T	T	A	GGTGGGGGGGTCTAGAGTGGAGGCCCAGGATGGGGACCGCCCT			
14923 IS	[CT]		tgtgtgtgtgtgcgtgtgtgtgcgggtgaagggcggtcccccatcctgggcc[CT]ccactctagacccccccaccactggttaagtctcgagtgaatccagtgg	ctg16829	1	
14935 I		A	CGGCTGCCAGGCAGGGAAGGGACA			
14935 P	T	A	CGCGCCGAGGTCCTGTCCAGTGGACAC			
14935 P	C	A	CGCGCCGAGGCCCTGTCCAGTGGACA			
14935 T	T	A	TCATGTGTCCACTGGACAGGAGTCCCTTCCCTGCCTGGCAGCCGAG			
14935 T	C	A	TCATGTGTCCACTGGACAGGGGTCCCTTCCCTGCCTGGCAGCCGAG			
14935 IS	[TC]		ctctctgtctcctctctctctgcctcggctgccaggcagggaagggac[TC]cctgtccagtggacacatgacccacgtgaccttaactatcattggagatg	ctg12723	20	
14946 I		A	GACCATGTGCAGCCGTTGGTCAAAGTGGTTTA			
14946 P	C	A	CGCGCCGAGGCCTGCTTTGACTTGTTCAATC			
14946 P	T	A	CGCGCCGAGGTCTGCTTTGACTTGTTCAATCC			
14946 T	C	A	TGAGGGATTGAACAAGTCAAAGCAGGAAACCACTTTGACCAACGGCTGCACATGGTCAG			
14946 T	T	A	TGAGGGATTGAACAAGTCAAAGCAGAAAACCACTTTGACCAACGGCTGCACATGGTCAG			
14946 IS	[CT]		cgtgtatttctgagcactgaccatgtgcagccgttggtcaaagtggttt[CT]ctgctttgactttgttcaatccctcaccatcctgtgtggcaggtcctctta	ctg16537	20	
14963 I		A	CATCTGCCAGAAGATAACACGATGGCCTTTACTCA			
14963 P	T	A	CGCGCCGAGGTGTTAGATGGGGTGGAGTG			
14963 P	C	A	CGCGCCGAGGCGTTAGATGGGGTGGAGT			
14963 T	T	A	TTAGCACTCCACCCCATCTAACAGAGTAAAGGCCATCGTGTTATCTTCTGGCAGATGAT			
14963 T	C	A	TTAGCACTCCACCCCATCTAACGGAGTAAAGGCCATCGTGTTATCTTCTGGCAGATGAT			
14963 IS	[TC]		gagttcctaaattatcatctgccagaagataacacgatggcctttactc[TC]gttagatggggtggagtgctaatcacctcaatccaacaagcactttgtatt	MULTIPLE	MULTIPLE	
14985 I		A	CGAGACCATCCTGGTTAACACRGTGAACCCCTCTCTAATAAAAATACAAAAT			
14985 P	A	A	CGCGCCGAGGAAAAATAAAAAAACTTAGCCGGGCY			
14985 P	G	A	CGCGCCGAGGGAAAATAAAAAAACTTAGCCGGGCY			
14985 T	A	A	CCACGCCCGGCTAAGTTTTTTTATTTTTTTTTGTATTTTTATTAGAGAGGGGTTCACYGTGTTAACCAGGATGGTCTCGAT			
14985 T	G	A	CCACGCCCGGCTAAGTTTTTTTATTTTCTTTTGTATTTTTATTAGAGAGGGGTTCACYGTGTTAACCAGGATGGTCTCGAT			
14985 IS	[AG]		TCCGGGCCGGGCACAGTGGCTCATGCCTGTAATCTCAGCACTCTGGGAGGCCAAGGCGGGCGGATCATAAGGTCAGGAGATCGAGACCATCCTGGTTAAC ACRGTGAACCCCTCTCTAATAAAAATACAAAA[AG]AAAATAAAAAAACTTAGCCGGGCGTGGTGCCAGGCGCCTGTAGTCCCAGCTACTCGGGACGCTGAG GC	ctg18466	16	
14989 I		S	CAGAGATGTTACATCACCTGTACAAGGGTACACCAGTGCA			
14989 P	A	S	CGCGCCGAGGTAACTGAGAATTTGGTTTCCTCA			
14989 P	G	S	CGCGCCGAGGCAACTGAGAATTTGGTTTCCTCA			
14989 T	A	S	AGGGTGAGGAAACCAAATTCTCAGTTAGCACTGGTGTACCCTTGTACAGGTGATGTAACATCTCTGTG			
14989 T	G	S	AGGGTGAGGAAACCAAATTCTCAGTTGGCACTGGTGTACCCTTGTACAGGTGATGTAACATCTCTGTG			
14989 IS	[AG]		AAACTTTAGACTCCAGCCACAGAAGCTTACAACTAAAAGAAACTCTAAGGCCAATTTAATCCAAGGTTTCATTCTATGTGCTGGAGATGGTGTACAGTAGGGT GAGGAAACCAAATTCTCAGTT[AG]GCACTGGTGTACCCTTGTACAGGTGATGTAACATCTCTGTGCCTCAGTTTGCTCACTATAAAATAGAGACGGTAGGGG TCAT	ctg17341	14	
15012 I		A	GGAGTTTGACCTGTGGGCTGCTTCCCTTTCAT			
15012 P	A	A	CGCGCCGAGGACCCCATAGCTGCCC			
15012 P	G	A	CGCGCCGAGGGCCCCATAGCTGCC			
15012 T	A	A	AGGTGGGCAGCTATGGGGCTGAAAGGGAAGCAGCCCACAGGTCAAACTCCTG			
15012 T	G	A	AGGTGGGCAGCTATGGGGCTGAAAGGGAAGCAGCCCACAGGTCAAACTCCTG			
15012 IS	[AG]		CAAGACACCATTGTGGGCCTGGGAGGCTCCAGGTTTCCAGGAGTTTGACCTGTGGGCTGCTTCCCTTTCA[AG]CCCCATAGCTGCCCACCTCCTCAACCTG GGGACTGTTCATTTGGGGGGGCATCCCATGGAATCACTTCATCTGGCTGGGTGTC	ctg13655	10	
15013 I		A	GGAATCACTTCATCTGGCTGGGTGTCAGCCCT			
15013 P	A	A	CGCGCCGAGGATCACTCTCTCTAGGTCCATC			
15013 P	G	A	CGCGCCGAGGGTCACTCTCTCTAGGTCCATC			
15013 T	A	A	TGCAGATGGACCTAGAGAGAGTGATGGGCTGACACCCAGCCAGATGAAGTGATTCCAT			
15013 T	G	A	TGCAGATGGACCTAGAGAGAGTGACGGGCTGACACCCAGCCAGATGAAGTGATTCCAT			
15013 IS	[AG]		GGACTGTTCATTTGGGGGGGCATCCCATGGAATCACTTCATCTGGCTGGGTGTCAGCCC[AG]TCACTCTCTCTAGGTCCATCTGCAGCTTGGAAAGTCCCA GCCAAGTGTCTCCAGAGGGCTCTGGCAGTCG	ctg13655	10	
15016 I		S	AGCCTGGGGCGGGGAGAACCCA			
15016 P	A	S	CGCGCCGAGGTGGGGTCTCACAGCC			
15016 P	G	S	CGCGCCGAGGCGGGGTCTCACAGCC			
15016 T	A	S	TGGGGGCTGTGAGACCCCAGGGTTCTCCCCGCCCCAGGCTGC			
15016 T	G	S	TGGGGGCTGTGAGACCCCGGGGTTCTCCCCGCCCCAGGCTGC			
15016 IS	[AG]		AAAAGGGAAAATATCATTGGGGAAGAACCTAAAAACCCAAGGAAAGCTGGGCTCTGCTGGGGGCTGTGAGACCCC[AG]GGGTTCTCCCCGCCCCAGGCTG CTGGCCATGGGGTCTTGCACCAATGGCCTGACCTTTCTGTCGGTCTGTATTTATCAAAGTGGGTGACAGTCT	ctg13655	10	
15017 I		S	TGCTCCCCTGGCTTGAGGTTGGGCT			
15017 P	C	S	CGCGCCGAGGGTCCTCACCGGTCACT			
15017 P	T	S	CGCGCCGAGGATCCTCACCGGTCACTC			
15017 T	C	S	CCTAGAGTGACCGGTGAGGACGCCCAACCTCAAGCCAGGGGAGCACA			
15017 T	T	S	CCTAGAGTGACCGGTGAGGATGCCCAACCTCAAGCCAGGGGAGCACA			
15017 IS	[CT]		CTACTTCAGTAAGTAGCTGGGAGGGGCTTCCTCAGACCTGGTCAGGCCCCTAGAGTGACCGGTGAGGA[CT]GCCCAACCTCAAGCCAGGGGAGCACACTC CTAGGTCAGCAGCCCAGCCGCTTGCTCTGAGACTTTGACCTTCCCGCCGCGTTTCTGAGCACGTGCGGTGTCCCAGGGCATCCACACCAGCTGCCTTTCC CATCA	ctg16537	20	
15020 I		A	GGGCGCCCAGCGTTTCCTGTGGA			
15020 P	C	A	CGCGCCGAGGCCTCTGGACCTCTTGCCY			
15020 P	T	A	CGCGCCGAGGTCTCTGGACCTCTTGCCY			
15020 T	C	A	CCCTGGCAAGAGGTCCAGAGGCCACAGGAAACGCTGGGCGCCCGA			
15020 T	T	A	CCCTGGCAAGAGGTCCAGAGACCACAGGAAACGCTGGGCGCCCGA			

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FIGURE 129E

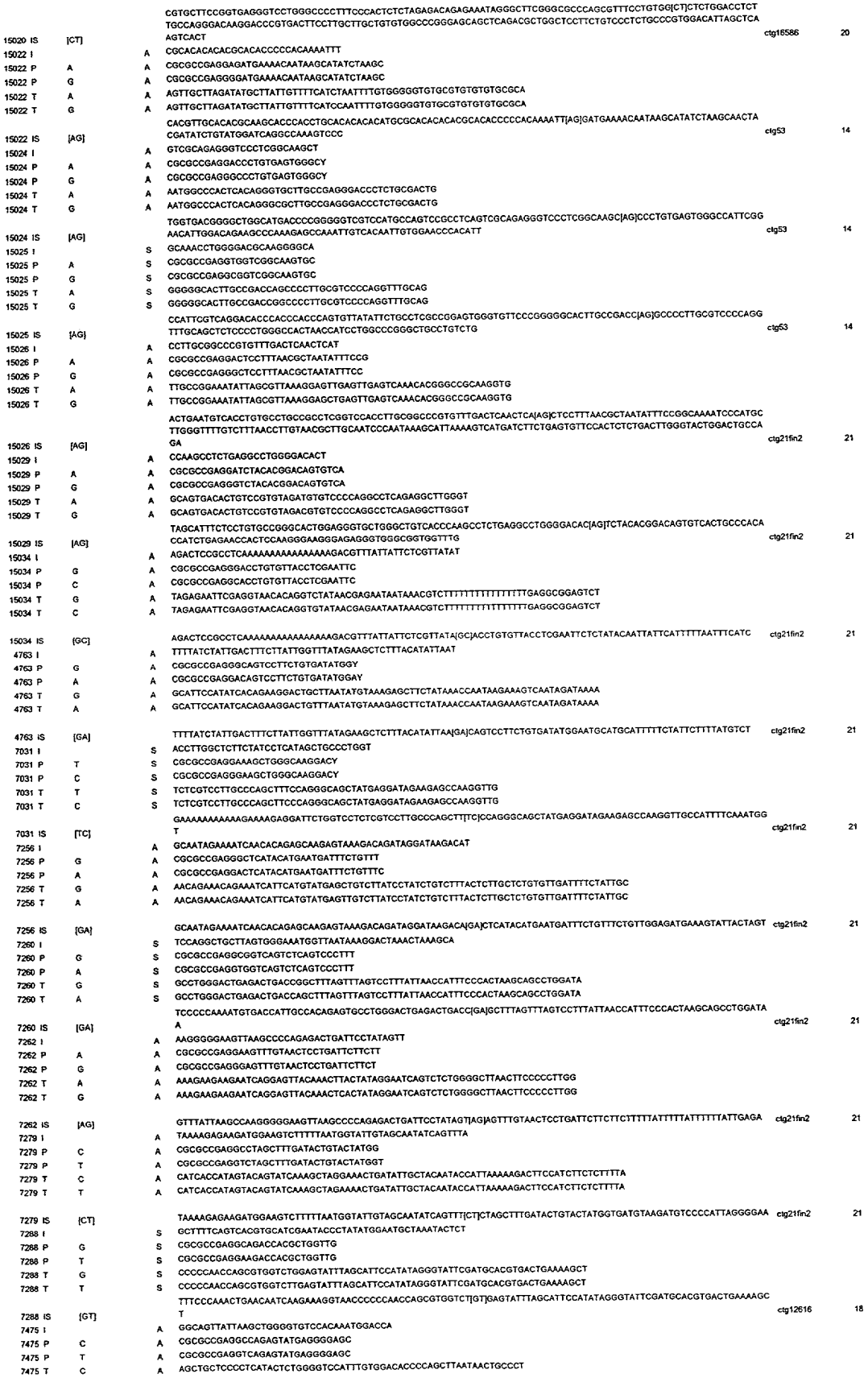
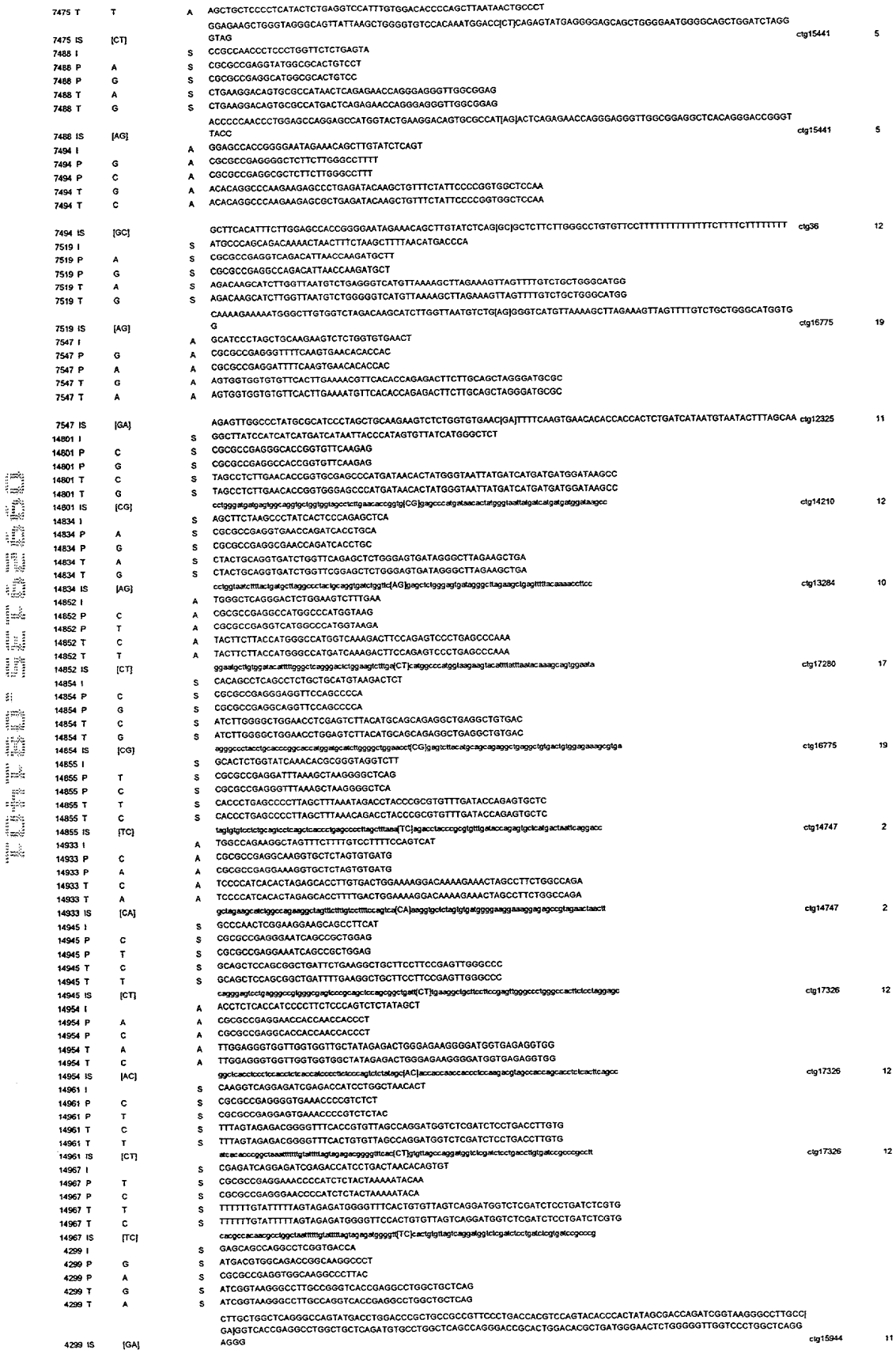

CGTGCTTCCGGTGAGGGTCCTGGGCCCCTTTCCCACTCTCTAGAGACAGAGAAATAGGGCTTCGGGCGCCCAGCGTTTCCTGTGG[CT]CTCTGGACCTCT
TGCCAGGGACAAGGACCCGTGACTTCCTTGCTTGCTGTGTGGCCCGGGAGCAGCTCAGACGCTGGCTCCTTCTGTCCCTCTGCCCGTGGACATTAGCTCA
15020 IS [CT] AGTCACT ctg16586 20
15022 I A CGCACACACGCACACCCCCACAAAATTT
15022 P A A CGCGCCGAGGAGATGAAAACAATAAGCATATCTAAGC
15022 P G A CGCGCCGAGGGGATGAAAACAATAAGCATATCTAAGC
15022 T A A AGTTGCTTAGATATGCTTATTGTTTTCATCTAATTTTGTGGGGGTGTGCGTGTGTGTGCGCA
15022 T G A AGTTGCTTAGATATGCTTATTGTTTTCATCCAATTTTGTGGGGGTGTGCGTGTGTGTGCGCA
CACGTTGCACACGCAAGCACCCACCTGCACACACACATGCGCACACACGCACACCCCCACAAAATT[AG]GATGAAAACAATAAGCATATCTAAGCAACTA
15022 IS [AG] CGATATCTGTATGGATCAGGCCAAAGTCCC ctg53 14
15024 I A GTCGCAGAGGGTCCCTCGGCAAGCT
15024 P A A CGCGCCGAGGACCCTGTGAGTGGGCY
15024 P G A CGCGCCGAGGGCCCTGTGAGTGGGCY
15024 T A A AATGGCCCACTCACAGGGTGCTTGCCGAGGGACCCTCTGCGACTG
15024 T G A AATGGCCCACTCACAGGGCGCTTGCCGAGGGACCCTCTGCGACTG
TGGTGACGGGGCTGGCATGACCCCGGGGGGTCGTCCATGCCAGTCCGCCTCAGTCGCAGAGGGTCCCTCGGCAAGC[AG]CCCTGTGAGTGGGCCATTCGG
15024 IS [AG] AACATTGGACAGAAGCCCAAAGAGCCAAATTGTCACAATTGTGGAACCCACATT ctg53 14
15025 I S GCAAACCTGGGGACGCAAGGGGCA
15025 P A S CGCGCCGAGGTGGTCGGCAAGTGC
15025 P G S CGCGCCGAGGCGGTCGGCAAGTGC
15025 T A S GGGGGCACTTGCCGACCAGCCCCTTGCGTCCCCAGGTTTGCAG
15025 T G S GGGGGCACTTGCCGACCGGCCCCTTGCGTCCCCAGGTTTGCAG
CCATTCGTCAGGACACCCACCCACCCAGTGTTATATTCTGCCTCGCCGGAGTGGGTGTTCCCGGGGGCACTTGCCGACC[AG]GCCCCTTGCGTCCCCAGG
15025 IS [AG] TTTGCAGCTCTCCCCTGGGCCACTAACCATCCTGGCCCGGGCTGCCTGTCTG ctg53 14
15026 I A CCTTGCGGCCCGTGTTTGACTCAACTCAT
15026 P A A CGCGCCGAGGACTCCTTTAACGCTAATATTTCCG
15026 P G A CGCGCCGAGGGCTCCTTTAACGCTAATATTTCC
15026 T A A TTGCCGGAAATATTAGCGTTAAAGGAGTTGAGTTGAGTCAAACACGGGCCGCAAGGTG
15026 T G A TTGCCGGAAATATTAGCGTTAAAGGAGCTGAGTTGAGTCAAACACGGGCCGCAAGGTG
ACTGAATGTCACCTGTGCCTGCCGCCTCGGTCCACCTTGCGGCCCGTGTTTGACTCAACTCA[AG]CTCCTTTAACGCTAATATTTCCGGCAAAATCCCATGC
TTGGGTTTTGTCTTTAACCTTGTAACGCTTGCAATCCCAATAAAGCATTAAAAGTCATGATCTTCTGAGTGTTCCACTCTCTGACTTGGGTACTGGACTGCCA
15026 IS [AG] GA ctg21fin2 21
15029 I A CCAAGCCTCTGAGGCCTGGGGACACT
15029 P A A CGCGCCGAGGATCTACACGGACAGTGTCA
15029 P G A CGCGCCGAGGGTCTACACGGACAGTGTCA
15029 T A A GCAGTGACACTGTCCGTGTAGATGTGTCCCCAGGCCTCAGAGGCTTGGGT
15029 T G A GCAGTGACACTGTCCGTGTAGACGTGTCCCCAGGCCTCAGAGGCTTGGGT
TAGCATTTCTCCTGTGCCGGGCACTGGAGGGTGCTGGGCTGTCACCCAAGCCTCTGAGGCCTGGGGACAC[AG]TCTACACGGACAGTGTCACTGCCCACA
15029 IS [AG] CCATCTGAGAACCACTCCAAGGGAAGGGAGAGGGTGGGCGGTGGTTTG ctg21fin2 21
15034 I A AGACTCCGCCTCAAAAAAAAAAAAAAAAAGACGTTTATTATTCTCGTTATAT
15034 P G A CGCGCCGAGGGACCTGTGTTACCTCGAATTC
15034 P C A CGCGCCGAGGCACCTGTGTTACCTCGAATTC
15034 T G A TAGAGAATTCGAGGTAACACAGGTCTATAACGAGAATAATAAACGTCTTTTTTTTTTTTTTTTGAGGCGGAGTCT
15034 T C A TAGAGAATTCGAGGTAACACAGGTGTATAACGAGAATAATAAACGTCTTTTTTTTTTTTTTTTGAGGCGGAGTCT
AGACTCCGCCTCAAAAAAAAAAAAAAAAAGACGTTTATTATTCTCGTTATA[GC]ACCTGTGTTACCTCGAATTCTCTATACAATTATTCATTTTTAATTTCATC
15034 IS [GC] ctg21fin2 21
4763 I A TTTTATCTATTGACTTTCTTATTGGTTTATAGAAGCTCTTTACATATTAAT
4763 P G A CGCGCCGAGGGCAGTCCTTCTGTGATATGGY
4763 P A A CGCGCCGAGGACAGTCCTTCTGTGATATGGAY
4763 T G A GCATTCCATATCACAGAAGGACTGCTTAATATGTAAAGAGCTTCTATAAACCAATAAGAAAGTCAATAGATAAAA
4763 T A A GCATTCCATATCACAGAAGGACTGTTTAATATGTAAAGAGCTTCTATAAACCAATAAGAAAGTCAATAGATAAAA
TTTTATCTATTGACTTTCTTATTGGTTTATAGAAGCTCTTTACATATTAA[GA]CAGTCCTTCTGTGATATGGAATGCATGCATTTTTCTATTCTTTTATGTCT
4763 IS [GA] ctg21fin2 21
7031 I S ACCTTGGCTCTTCTATCCTCATAGCTGCCCTGGT
7031 P T S CGCGCCGAGGAAAGCTGGGCAAGGACY
7031 P C S CGCGCCGAGGGAAGCTGGGCAAGGACY
7031 T T S TCTCGTCCTTGCCCAGCTTTCCAGGGCAGCTATGAGGATAGAAGAGCCAAGGTTG
7031 T C S TCTCGTCCTTGCCCAGCTTCCAGGGCAGCTATGAGGATAGAAGAGCCAAGGTTG
GAAAAAAAAAAAGAAAAGAGGATTCTGGTCCTCTCGTCCTTGCCCAGCTT[TC]CCAGGGCAGCTATGAGGATAGAAGAGCCAAGGTTGCCATTTTCAAATGG
7031 IS [TC] T ctg21fin2 21
7256 I A GCAATAGAAAATCAACACAGAGCAAGAGTAAAGACAGATAGGATAAGACAT
7256 P G A CGCGCCGAGGGCTCATACATGAATGATTTCTGTTT
7256 P A A CGCGCCGAGGACTCATACATGAATGATTTCTGTTTC
7256 T G A AACAGAAACAGAAATCATTCATGTATGAGCTGTCTTATCCTATCTGTCTTTACTCTTGCTCTGTGTTGATTTTCTATTGC
7256 T A A AACAGAAACAGAAATCATTCATGTATGAGTTGTCTTATCCTATCTGTCTTTACTCTTGCTCTGTGTTGATTTTCTATTGC
GCAATAGAAAATCAACACAGAGCAAGAGTAAAGACAGATAGGATAAGACA[GA]CTCATACATGAATGATTTCTGTTTCTGTTGGAGATGAAAGTATTACTAGT
7256 IS [GA] ctg21fin2 21
7260 I S TCCAGGCTGCTTAGTGGGAAATGGTTAATAAAGGACTAAACTAAAGCA
7260 P G S CGCGCCGAGGCGGTCAGTCTCAGTCCCTTT
7260 P A S CGCGCCGAGGTGGTCAGTCTCAGTCCCTTT
7260 T G S GCCTGGGACTGAGACTGACCGGCTTTAGTTTAGTCCTTTATTAACCATTTCCCACTAAGCAGCCTGGATA
7260 T A S GCCTGGGACTGAGACTGACCAGCTTTAGTTTAGTCCTTTATTAACCATTTCCCACTAAGCAGCCTGGATA
TCCCCCAAAATGTGACCATTGCCACAGAGTGCCTGGGACTGAGACTGACC[GA]GCTTTAGTTTAGTCCTTTATTAACCATTTCCCACTAAGCAGCCTGGATA
7260 IS [GA] A ctg21fin2 21
7262 I A AAGGGGGAAGTTAAGCCCCAGAGACTGATTCCTATAGTT
7262 P A A CGCGCCGAGGAAGTTTGTAACTCCTGATTCTTCTT
7262 P G A CGCGCCGAGGGAGTTTGTAACTCCTGATTCTTCT
7262 T A A AAAGAAGAAGAATCAGGAGTTACAAACTTACTATAGGAATCAGTCTCTGGGGCTTAACTTCCCCCTTGG
7262 T G A AAAGAAGAAGAATCAGGAGTTACAAACTCACTATAGGAATCAGTCTCTGGGGCTTAACTTCCCCCTTGG
GTTTATTAAGCCAAGGGGGAAGTTAAGCCCCAGAGACTGATTCCTATAGT[AG]AGTTTGTAACTCCTGATTCTTCTTCTTTTTATTTTTATTTTTTATTGAGA
7262 IS [AG] ctg21fin2 21
7279 I A TAAAAGAGAAGATGGAAGTCTTTTTAATGGTATTGTAGCAATATCAGTTTA
7279 P C A CGCGCCGAGGCCTAGCTTTGATACTGTACTATGG
7279 P T A CGCGCCGAGGTCTAGCTTTGATACTGTACTATGGT
7279 T C A CATCACCATAGTACAGTATCAAAGCTAGGAAACTGATATTGCTACAATACCATTAAAAAGACTTCCATCTTCTCTTTTA
7279 T T A CATCACCATAGTACAGTATCAAAGCTAGAAAACTGATATTGCTACAATACCATTAAAAAGACTTCCATCTTCTCTTTTA
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7279 IS [CT] ctg21fin2 21
7288 I S GCTTTTCAGTCACGTGCATCGAATACCCTATATGGAATGCTAAATACTCT
7288 P G S CGCGCCGAGGCAGACCACGCTGGTTG
7288 P T S CGCGCCGAGGAAGACCACGCTGGTTG
7288 T G S CCCCCAACCAGCGTGGTCTGGAGTATTTAGCATTCCATATAGGGTATTCGATGCACGTGACTGAAAAGCT
7288 T T S CCCCCAACCAGCGTGGTCTTGAGTATTTAGCATTCCATATAGGGTATTCGATGCACGTGACTGAAAAGCT
TTTCCCAAACTGAACAATCAAGAAAGGTAACCCCCCAACCAGCGTGGTCT[GT]GAGTATTTAGCATTCCATATAGGGTATTCGATGCACGTGACTGAAAAGC
7288 IS [GT] T ctg12616 18
7475 I A GGCAGTTATTAAGCTGGGGTGTCCACAAATGGACCA
7475 P C A CGCGCCGAGGCCAGAGTATGAGGGGAGC
7475 P T A CGCGCCGAGGTCAGAGTATGAGGGGAGC
7475 T C A AGCTGCTCCCCTCATACTCTGGGGTCCATTTGTGGACACCCCAGCTTAATAACTGCCCT

FIGURE 129E



Application No. 10/781,692 Docket No. CL001358

FIGURE 129E

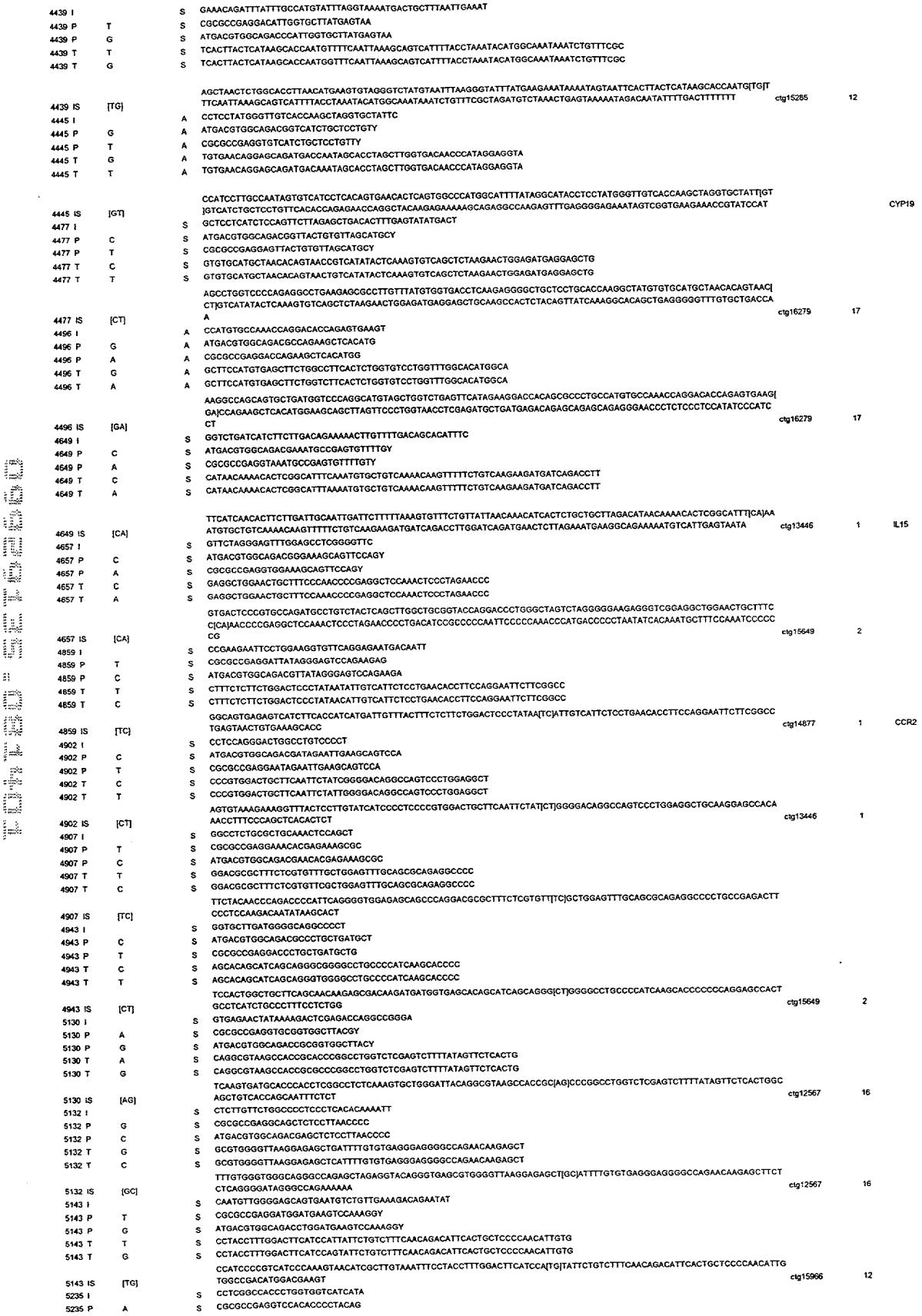
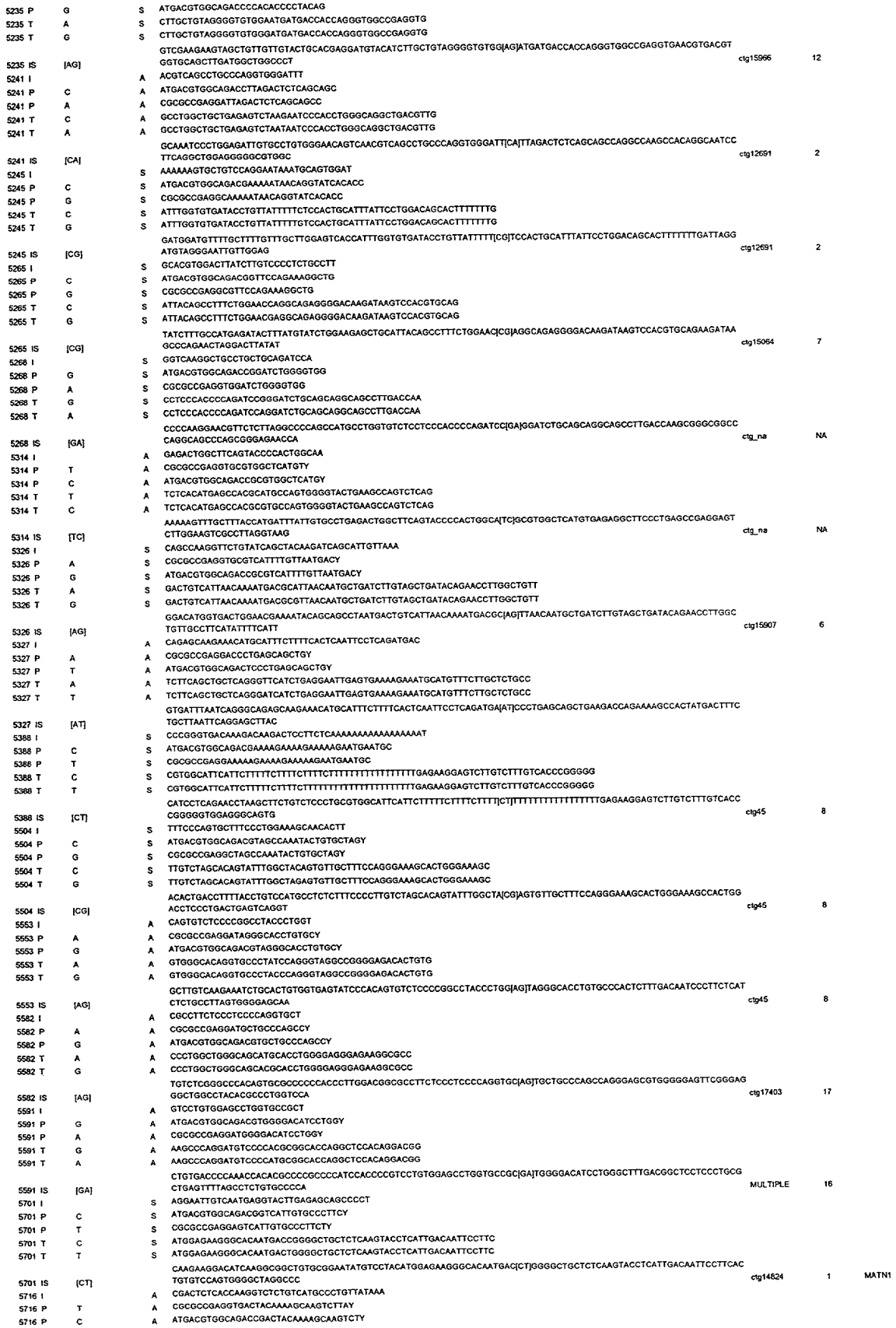

4439 I S GAAACAGATTTATTTGCCATGTATTTAGGTAAAATGACTGCTTTAATTGAAAT
4439 P T S CGCGCCGAGGACATTGGTGCTTATGAGTAA
4439 P G S ATGACGTGGCAGACCCATTGGTGCTTATGAGTAA
4439 T T S TCACTTACTCATAAGCACCAATGTTTTCAATTAAAGCAGTCATTTTACCTAAATACATGGCAAATAAATCTGTTTCGC
4439 T G S TCACTTACTCATAAGCACCAATGGTTTCAATTAAAGCAGTCATTTTACCTAAATACATGGCAAATAAATCTGTTTCGC
4439 IS [TG] AGCTAACTCTGGCACCTTAACATGAAGTGTAGGGTCTATGTAATTTAAGGGTATTTATGAAGAAATAAAATAGTAATTCACTTACTCATAAGCACCAATG[TG]T TTCAATTAAAGCAGTCATTTTACCTAAATACATGGCAAATAAATCTGTTTCGCTAGATGTCTAAACTGAGTAAAAATAGACAATATTTTGACTTTTTTT ctg15285 12
4445 I A CCTCCTATGGGTTGTCACCAAGCTAGGTGCTATTC
4445 P G A ATGACGTGGCAGACGGTCATCTGCTCCTGTY
4445 P T A CGCGCCGAGGTGTCATCTGCTCCTGTTY
4445 T G A TGTGAACAGGAGCAGATGACCAATAGCACCTAGCTTGGTGACAACCCATAGGAGGTA
4445 T T A TGTGAACAGGAGCAGATGACAAATAGCACCTAGCTTGGTGACAACCCATAGGAGGTA
4445 IS [GT] CCATCCTTGCCAATAGTGTCATCCTCACAGTGAACACTCAGTGGCCCATGGCATTTTATAGGCATACCTCCTATGGGTTGTCACCAAGCTAGGTGCTATT[GT]GTCATCTGCTCCTGTTCACACCAGAGAACCAGGCTACAAGAGAAAAAGCAGAGGCCAAGAGTTTGAGGGGAGAAATAGTCGGTGAAGAAACCGTATCCAT CYP19
4477 I S GCTCCTCATCTCCAGTTCTTAGAGCTGACACTTTGAGTATATGACT
4477 P C S ATGACGTGGCAGACGGTTACTGTGTTAGCATGCY
4477 P T S CGCGCCGAGGAGTTACTGTGTTAGCATGCY
4477 T C S GTGTGCATGCTAACACAGTAACCGTCATATACTCAAAGTGTCAGCTCTAAGAACTGGAGATGAGGAGCTG
4477 T T S GTGTGCATGCTAACACAGTAACTGTCATATACTCAAAGTGTCAGCTCTAAGAACTGGAGATGAGGAGCTG
4477 IS [CT] AGCCTGGTCCCCAGAGGCCTGAAGAGCGCCTTGTTTATGTGGTGACCTCAAGAGGGGCTGCTCCTGCACCAAGGCTATGTGTGCATGCTAACACAGTAAC[CT]GTCATATACTCAAAGTGTCAGCTCTAAGAACTGGAGATGAGGAGCTGCAAGCCACTCTACAGTTATCAAAGGCACAGCTGAGGGGGTTTGTGCTGACCA A ctg16279 17
4496 I A CCATGTGCCAAACCAGGACACCAGAGTGAAGT
4496 P G A ATGACGTGGCAGACGCCAGAAGCTCACATG
4496 P A A CGCGCCGAGGACCAGAAGCTCACATGG
4496 T G A GCTTCCATGTGAGCTTCTGGCCTTCACTCTGGTGTCCTGGTTTGGCACATGGCA
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4649 I S GGTCTGATCATCTTCTTGACAGAAAAACTTGTTTTGACAGCACATTTC
4649 P C S ATGACGTGGCAGACGAAATGCCGAGTGTTTTGY
4649 P A S CGCGCCGAGGTAAATGCCGAGTGTTTTGY
4649 T C S CATAACAAAACACTCGGCATTTCAAATGTGCTGTCAAAACAAGTTTTTCTGTCAAGAAGATGATCAGACCTT
4649 T A S CATAACAAAACACTCGGCATTTAAAATGTGCTGTCAAAACAAGTTTTTCTGTCAAGAAGATGATCAGACCTT
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4657 I S GTTCTAGGGAGTTTGGAGCCTCGGGGTTC
4657 P C S ATGACGTGGCAGACGGGAAAGCAGTTCCAGY
4657 P A S CGCGCCGAGGTGGAAAGCAGTTCCAGY
4657 T C S GAGGCTGGAACTGCTTTCCCAACCCCGAGGCTCCAAACTCCCTAGAACCC
4657 T A S GAGGCTGGAACTGCTTTCCAAACCCCGAGGCTCCAAACTCCCTAGAACCC
4657 IS [CA] GTGACTCCCGTGCCAGATGCCTGTCTACTCAGCTTGGCTGCGGTACCAGGACCCTGGGCTAGTCTAGGGGGAAGAGGGTCGGAGGCTGGAACTGCTTTC C[CA]AACCCCGAGGCTCCAAACTCCCTAGAACCCCTGACATCCGCCCCCAATTCCCCCAAACCCATGACCCCCTAATATCACAAATGCTTTCCAAATCCCCC CG ctg15649 2
4859 I S CCGAAGAATTCCTGGAAGGTGTTCAGGAGAATGACAATT
4859 P T S CGCGCCGAGGATTATAGGGAGTCCAGAAGAG
4859 P C S ATGACGTGGCAGACGTTATAGGGAGTCCAGAAGA
4859 T T S CTTTCTCTTCTGGACTCCCTATAATATTGTCATTCTCCTGAACACCTTCCAGGAATTCTTCGGCC
4859 T C S CTTTCTCTTCTGGACTCCCTATAACATTGTCATTCTCCTGAACACCTTCCAGGAATTCTTCGGCC
4859 IS [TC] GGCAGTGAGAGTCATCTTCACCATCATGATTGTTTACTTTCTCTTCTGGACTCCCTATAA[TC]ATTGTCATTCTCCTGAACACCTTCCAGGAATTCTTCGGCC TGAGTAACTGTGAAAGCACC ctg14877 1 CCR2
4902 I S CCTCCAGGGACTGGCCTGTCCCCT
4902 P C S ATGACGTGGCAGACGATAGAATTGAAGCAGTCCA
4902 P T S CGCGCCGAGGAATAGAATTGAAGCAGTCCA
4902 T C S CCCGTGGACTGCTTCAATTCTATCGGGGACAGGCCAGTCCCTGGAGGCT
4902 T T S CCCGTGGACTGCTTCAATTCTATTGGGGACAGGCCAGTCCCTGGAGGCT
4902 IS [CT] AGTGTAAAGAAAGGTTTACTCCTTGTATCATCCCCTCCCCGTGGACTGCTTCAATTCTAT[CT]GGGGACAGGCCAGTCCCTGGAGGCTGCAAGGAGCCACA AACCTTTCCCAGCTCACACTCT ctg13446 1
4907 I S GGCCTCTGCGCTGCAAACTCCAGCT
4907 P T S CGCGCCGAGGAAACACGAGAAAGCGC
4907 P C S ATGACGTGGCAGACGAACACGAGAAAGCGC
4907 T T S GGACGCGCTTTCTCGTGTTTGCTGGAGTTTGCAGCGCAGAGGCCCC
4907 T C S GGACGCGCTTTCTCGTGTTCGCTGGAGTTTGCAGCGCAGAGGCCCC
4907 IS [TC] TTCTACAACCCAGACCCCATTCAGGGGTGGAGAGCAGCCCAGGACGCGCTTTCTCGTGTT[TC]GCTGGAGTTTGCAGCGCAGAGGCCCCTGCCGAGACTT CCCTCCAAGACAATATAAGCACT
4943 I S GGTGCTTGATGGGGCAGGCCCCT
4943 P C S ATGACGTGGCAGACGCCCTGCTGATGCT
4943 P T S CGCGCCGAGGACCCTGCTGATGCTG
4943 T C S AGCACAGCATCAGCAGGGCGGGGCCTGCCCCATCAAGCACCCC
4943 T T S AGCACAGCATCAGCAGGGTGGGGCCTGCCCCATCAAGCACCCC
4943 IS [CT] TCCACTGGCTGCTTCAGCAACAAGAGCGACAAGATGATGGTGAGCACAGCATCAGCAGGG[CT]GGGGCCTGCCCCATCAAGCACCCCCCCAGGAGCCACT GCCTCATCTGCCCTTTCCTCTGG ctg15649 2
5130 I S GTGAGAACTATAAAAGACTCGAGACCAGGCCGGGA
5130 P A S CGCGCCGAGGTGCGGTGGCTTACGY
5130 P G S ATGACGTGGCAGACCGCGGTGGCTTACY
5130 T A S CAGGCGTAAGCCACCGCACCCGGCCTGGTCTCGAGTCTTTTATAGTTCTCACTG
5130 T G S CAGGCGTAAGCCACCGCGCCCGGCCTGGTCTCGAGTCTTTTATAGTTCTCACTG
5130 IS [AG] TCAAGTGATGCACCCACCTCGGCCTCTCAAAGTGCTGGGATTACAGGCGTAAGCCACCGC[AG]CCCGGCCTGGTCTCGAGTCTTTTATAGTTCTCACTGGC AGCTGTCACCAGCAATTTCTCT ctg12567 16
5132 I S CTCTTGTTCTGGCCCCTCCCTCACACAAAATT
5132 P G S CGCGCCGAGGCAGCTCTCCTTAACCCC
5132 P C S ATGACGTGGCAGACGAGCTCTCCTTAACCCC
5132 T G S GCGTGGGGTTAAGGAGAGCTGATTTTGTGTGAGGGAGGGGCCAGAACAAGAGCT
5132 T C S GCGTGGGGTTAAGGAGAGCTCATTTTGTGTGAGGGAGGGGCCAGAACAAGAGCT
5132 IS [GC] TTTGTGGGTGGGCAGGGCCAGAGCTAGAGGTACAGGGTGAGCGTGGGGTTAAGGAGAGCT[GC]ATTTTGTGTGAGGGAGGGGCCAGAACAAGAGCTTCT CTCAGGGGATAGGGCCAGAAAAAA ctg12567 16
5143 I S CAATGTTGGGGAGCAGTGAATGTCTGTTGAAAGACAGAATAT
5143 P T S CGCGCCGAGGATGGATGAAGTCCAAAGGY
5143 P G S ATGACGTGGCAGACCTGGATGAAGTCCAAAGGY
5143 T T S CCTACCTTTGGACTTCATCCATTATTCTGTCTTTCAACAGACATTCACTGCTCCCCAACATTGTG
5143 T G S CCTACCTTTGGACTTCATCCAGTATTCTGTCTTTCAACAGACATTCACTGCTCCCCAACATTGTG
5143 IS [TG] CCATCCCCGTCATCCCAAAGTAACATCGCTTGTAAATTTCCTACCTTTGGACTTCATCCA[TG]TATTCTGTCTTTCAACAGACATTCACTGCTCCCCAACATTG TGGCCGACATGGACGAAGT ctg15966 12
5235 I S CCTCGGCCACCCTGGTGGTCATCATA
5235 P A S CGCGCCGAGGTCCACACCCCTACAG

FIGURE 129E



SUBSTITUTE SHEET (RULE 26)

FIGURE 129E

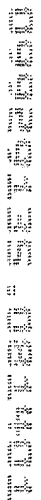
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5716 T	C	A	TAGGTAAGACTTGCTTTTGTAGTCGTTATAACAGGGCATGACAGAGACCTTGGTGAGAGTCGCC			
5716 IS	[TC]		CACTTGTGATCACTGGCTTCTGGCGACTCTCACCAAGGTCTCTGTCATGCCCTGTTATAA[TC]GACTACAAAAGCAAGTCTTACCTATAGGAAAATAAGAATT ATAACCCTTTTACTGGTCAT	ctg14824	1	
5779 I		A	GGGCCAGCCACCATGGCAGTAGCT			
5779 P	C	A	ATGACGTGGCAGACCTGCCATTGTCAGACTTGY			
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5779 T	C	A	GGAGCAAGTCTGACAATGGCAGGCTACTGCCATGGTGGCTGGCCCTC			
5779 T	A	A	GGAGCAAGTCTGACAATGGCATGCTACTGCCATGGTGGCTGGCCCTC			
5779 IS	[CA]		ACACCCCAAGAAAAAGTACCATCCTTGGGGTTTGAGAGGGCCAGCCACCATGGCAGTAGC[CA]TGCCATTGTCAGACTTGCTCCTTGCACTCCAATAAGTTA GCCACATTCAGCATGCCCAGG	ctg5305	11	
5808 I		A	GTCAACCAACTTCTCTAGGATAAGGTTTCAGGTCAGCCA			
5808 P	C	A	ATGACGTGGCAGACCGTGTGTATAAGACCAGTG			
5808 P	T	A	CGCGCCGAGGTGTGTGTATAAGACCAGTG			
5808 T	C	A	TTGGCACTGGTCTTATACACACGGGCTGACCTGAAACCTTATCCTAGAGAAGTTGGTTGACAG			
5808 T	T	A	TTGGCACTGGTCTTATACACACAGGCTGACCTGAAACCTTATCCTAGAGAAGTTGGTTGACAG			
5808 IS	[CT]		CCTCTTGTCAAGTGATCAGGCTGTCAACCAACTTCTCTAGGATAAGGTTTCAGGTCAGCC[CT]GTGTGTATAAGACCAGTGCCAAGCCAGAAGCAGCAGAGA CAACAGTGAATGACAAGGAGG	ctg5305	11	
5825 I		A	TCCTCTTTACCTTAAGCAGTTGCCTATCTTCTGGTCTGTGT			
5825 P	G	A	ATGACGTGGCAGACGGTCTGACTTGCCTG			
5825 P	A	A	CGCGCCGAGGAGTCTGACTTGCCTGC			
5825 T	G	A	AGAGGCAGGCAAGTCAGACCCACAGACCAGAAGATAGGCAACTGCTTAAGGTAAAGAGGAAT			
5825 T	A	A	AGAGGCAGGCAAGTCAGACTCACAGACCAGAAGATAGGCAACTGCTTAAGGTAAAGAGGAAT			
5825 IS	[GA]		TGGCTCCGCTGGCTATGAATTCCTCTTTACCTTAAGCAGTTGCCTATCTTCTGGTCTGTG[GA]GTCTGACTTGCCTGCCTCTAAGCAAGGCTCCTTTGCAAA TAAATCCACGCTTCCATTGTC			
5829 I		A	GCAGGCTTGGCCCTTGACCTCATAGAACTTAA			
5829 P	T	A	CGCGCCGAGGTCCTAGCCCCCTAAAG			
5829 P	C	A	ATGACGTGGCAGACCCCTAGCCCCCTAAAG			
5829 T	T	A	ATTCCTTTAGGGGGCTAGGATAAGTTCTATGAGGTCAAGGGCCAAGCCTGCCC			
5829 T	C	A	ATTCCTTTAGGGGGCTAGGGTAAGTTCTATGAGGTCAAGGGCCAAGCCTGCCC			
5829 IS	[TC]		CTAGGTCCCCGGCTGTCCACTGGGACAGGGCAGGCTTGGCCCTTGACCTCATAGAACTTA[TC]CCTAGCCCCCTAAAGGAATAGCACATGCCTATCCTTTC CCCTCCAGGTTTAAAGTCTTCG			
5939 I		A	TGACTTCTTTGATCATAGAGCCCCACCCATCCACA			
5939 P	C	A	ATGACGTGGCAGACCCCCACTTTTTTTAAGCC			
5939 P	T	A	CGCGCCGAGGTCCCACTTTTTTTAAGCCA			
5939 T	C	A	TTTTTGGCTTAAAAAAAGTGGGGGTGGATGGGTGGGGCTCTATGATCAAAGAAGTCACA			
5939 T	T	A	TTTTTGGCTTAAAAAAAGTGGGAGTGGATGGGTGGGGCTCTATGATCAAAGAAGTCACA			
5939 IS	[CT]		TGAGGAGAATATTTCCACGTAACATGTGACTTCTTTGATCATAGAGCCCCACCCATCCAC[CT]CCCACTTTTTTTAAGCCAAAAAAGAAGGACCCATGATTTG ACAAGCATTGGCATAATAAG	ctg15665	20	
5941 I		S	CCTGTAATCCCAACACTTTGGCAGACCAAGGTGT			
5941 P	G	S	CGCGCCGAGGCGAGGACAGCTTAAGC			
5941 P	C	S	ATGACGTGGCAGACGGAGGACAGCTTAAGC			
5941 T	G	S	CTGGGCTTAAGCTGTCCTCGCACCTTGGTCTGCCAAAGTGTTGGGATTACAGGTG			
5941 T	C	S	CTGGGCTTAAGCTGTCCTCCCACCTTGGTCTGCCAAAGTGTTGGGATTACAGGTG			
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5989 I		A	CCCAGGAGGGCCCATCTGACCATACCTAA			
5989 P	T	A	CGCGCCGAGGTCTGCCTCTCCTTGC			
5989 P	C	A	ATGACGTGGCAGACCCTGCCTCTCCTTGC			
5989 T	T	A	ATAGGCAAGGAGAGGCAGATAGGTATGGTCAGATGGGCCCTCCTGGGGA			
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6065 P	G	S	ATGACGTGGCAGACCGCAGTAGCCTTCCA			
6065 T	A	S	GTTGCTGGAAGGCTACTGCAGGAGGTGGTAGACTCTGTGTCCTGGATTTCAGCAG			
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6113 I		S	GGGTAGCCATGCTTTGGCAGGACTTTTCTTCTT			
6113 P	T	S	CGCGCCGAGGATGGTATTGTTGCCAGC			
6113 P	C	S	ATGACGTGGCAGACGTGGTATTGTTGCCAGC			
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6113 T	C	S	TGTTGCTGGCAACAATACCACAGAAGAAAAGTCCTGCCAAAGCATGGCTACCCTA			
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6117 I		S	GCCAAGGGGCCTCCCCTCTCGAA			
6117 P	G	S	ATGACGTGGCAGACCGGTGGGCGCC			
6117 P	A	S	CGCGCCGAGGTGGTGGGCGCC			
6117 T	G	S	TGGTGGCGCCCACCGTCGAGAGGGGAGGCCCCTTGGCAC			
6117 T	A	S	TGGTGGCGCCCACCATCGAGAGGGGAGGCCCCTTGGCAC			
6117 IS	[GA]		TGGCCGAACCTACCTTGTAAAGTGGGGCTGCACAGAGGTCAGCACATGGTGGCGCCCACC[GA]TCGAGAGGGGAGGCCCCTTGGCACTGGAGGCAGGGC CTCACCAGGCAGACGTGCCAGGAC	ctg17224	X	
6118 I		S	CCTTGTCACAGTCTGCAGTCCTTCCTGGGT			
6118 P	T	S	CGCGCCGAGGATCCTGGCACCCTG			
6118 P	C	S	ATGACGTGGCAGACGTCCTGGCACCCTG			
6118 T	T	S	CTCCCAGGGTGCCAGGATCCCAGGAAGGACTGCAGACTGTGACAAGGGG			
6118 T	C	S	CTCCCAGGGTGCCAGGACCCCAGGAAGGACTGCAGACTGTGACAAGGGG			
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6122 I		S	GGTGTGCAGGTCCAGCCCCCTTGTCT			
6122 P	C	S	ATGACGTGGCAGACGCAGGGAGGCAGG			
6122 P	T	S	CGCGCCGAGGACAGGGAGGCAGG			
6122 T	C	S	CCTGCCTGCCTCCCTGCGACAAGGGGCTGGACCTGCACACCCT			
6122 T	T	S	CCTGCCTGCCTCCCTGTGACAAGGGGCTGGACCTGCACACCCT			
6122 IS	[CT]		GAGCATGAAGGGTCCAGTGGAGATGGTGGAGATGCAGAGGCAGACCTGCCTGCCTCCCTG[CT]GACAAGGGGCTGGACCTGCACACCCTGCCCTTGCTG CGGACCCTTTGCTGGCCCCCTCTG	ctg15343	2	
6125 I		A	GAAATGACCCATGGGGCCAGGGTAGACTTT			
6125 P	G	A	ATGACGTGGCAGACGTATAGCATATAGCACCCTG			
6125 P	A	A	CGCGCCGAGGATATAGCATATAGCACCCTGA			
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6147 I		S	AGTTCATCAACACTGTTTCCAGGTTTGGCCGTGT			
6147 P	T	S	CGCGCCGAGGACCACTTCCAGACCAT			
6147 P	C	S	ATGACGTGGCAGACGCCACTTCCAGACCA			
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Confidential and Proprietary

FIGURE 129E

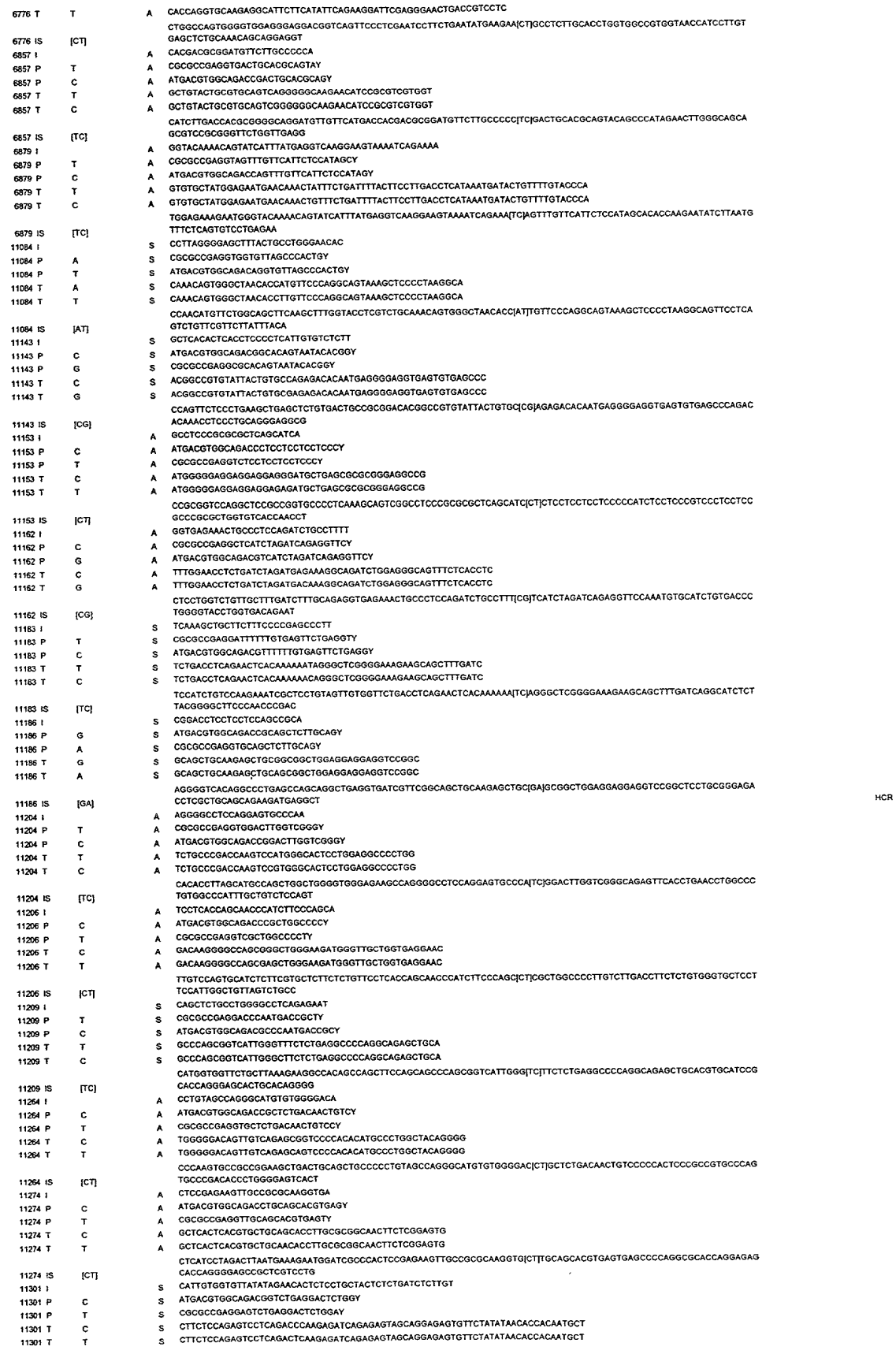
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6155 I		A	CAGGTCCTTTTTGATGTCTGCATTAGTTTCCTAGTACTGCTCTT			
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6155 P	C	A	ATGACGTGGCAGACCATGAAGCACCGCAA			
6155 T	A	A	CTACTTTGCGGTGCTTCATTAGAGCAGTACTAGGAAACTAATGCAGACATCAAAAAGGACCTGAT			
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6189 P	C	A	ATGACGTGGCAGACCTGAAAAAAGCCTATTGACAAT			
6189 T	T	A	TCTAAATTGTCAATAGGCTTTTTTCAATCCTCACTACTTCTTTCTCCTGTAGAGTCAGCCTCAGGA			
6189 T	C	A	TCTAAATTGTCAATAGGCTTTTTTCAGTCCTCACTACTTCTTTCTCCTGTAGAGTCAGCCTCAGGA			
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6244 P	A	A	ATGACGTGGCAGACACCATCCAATAAGCCAC			
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6244 T	A	A	CCTGGTGGCTTATTGGATGGTAGGGGTAAATGAAGAGTCAGGACTGAGGCCGGG			
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6246 I		S	CCTTTCCTCAAACAGAAGACCCCCTGTAGGTGACT			
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6246 P	C	S	ATGACGTGGCAGACGAGGAGAATGCTCAGTTC			
6246 T	G	S	GGGTGAACTGAGCATTCTCCTGGTCACCTACAGGGGGTCTTCTGTTTGAGGAAAGGTA			
6246 T	C	S	GGGTGAACTGAGCATTCTCCTCGTCACCTACAGGGGGTCTTCTGTTTGAGGAAAGGTA			
6246 IS	[GC]		CCCTGCCTGGCACAGAGAAGGGCTTAGTGAGGTTTGTGGGGGTGAACTGAGCATTCTCCT[GC]GTCACCTACAGGGGGTCTTCTGTTTGAGGAAAGGTAG CCACCATTTCTAGGTTTGATACA			
6259 I		S	TCATTGGAAACAGCCATCTGTCCCTTGTGCAACT			
6259 P	C	S	ATGACGTGGCAGACGTCACCCTCTGGAGGY			
6259 P	T	S	CGCGCCGAGGATCACCCTCTGGAGGY			
6259 T	C	S	CTGGCCTCCAGAGGGTGACGTTGCACAAGGGACAGATGGCTGTTTCCAATGATG			
6259 T	T	S	CTGGCCTCCAGAGGGTGATGTTGCACAAGGGACAGATGGCTGTTTCCAATGATG			
6259 IS	[CT]		AGGTTCACTTCTTGTGGGGAGTCTGTATCCTCAGTCCTGAATCTGGCCTCCAGAGGGTGA[CT]GTTGCACAAGGGACAGATGGCTGTTTCCAATGATGATC AACAAACACTTTCTGCTCAGCC	ctg17748	14	
6285 I		S	ACAAGGAAAACCCAGCTCAGCCCAAACTCCT			
6285 P	C	S	ATGACGTGGCAGACGTCATGACTCTTCTGTGTTC			
6285 P	T	S	CGCGCCGAGGATCATGACTCTTCTGTGTTC			
6285 T	C	S	CACTGAACACAGAAGAGTCATGACGGAGTTTGGGCTGAGCTGGGTTTTCCTTGTTG			
6285 T	T	S	CACTGAACACAGAAGAGTCATGATGGAGTTTGGGCTGAGCTGGGTTTTCCTTGTTG			
6285 IS	[CT]		GCCCTGGGATTCCCAGGTGTTTTCATTTGGTGATCAGCACTGAACACAGAAGAGTCATGA[CT]GGAGTTTGGGCTGAGCTGGGTTTTCCTTGTTGCTATTTT TAAAGGTGATTCATGAGGAAA	ctg14508	3	
6287 I		S	CACAGTGAGCCCTGGGATCAGAGGCACT			
6287 P	G	S	CGCGCCGAGGCTCCCATACCCCCATGY			
6287 P	C	S	ATGACGTGGCAGACGTCCCATACCCCCATY			
6287 T	G	S	CAGACATGGGGGTATGGGAGGTGCCTCTGATCCCAGGGCTCACTGTGGG			
6287 T	C	S	CAGACATGGGGGTATGGGACGTGCCTCTGATCCCAGGGCTCACTGTGGG			
6287 IS	[GC]		CCTCCTGGTGGCAGCTCCCAGATGTGAGTGTCTCAGGGATCCAGACATGGGGGTATGGGA[GC]GTGCCTCTGATCCCAGGGCTCACTGTGGGTCTCTCTG TTCACAGGGGTCCTGTCCCAGGT	ctg14508	3	
6289 I		S	TGTGAACAGAGAGACCCACAGTGAGCCCTT			
6289 P	C	S	ATGACGTGGCAGACGGGATCAGAGGCACC			
6289 P	T	S	CGCGCCGAGGAGGATCAGAGGCACC			
6289 T	C	S	GGGAGGTGCCTCTGATCCCAGGGCTCACTGTGGGTCTCTCTGTTCACAGG			
6289 T	T	S	GGGAGGTGCCTCTGATCCTAGGGCTCACTGTGGGTCTCTCTGTTCACAGG			
6289 IS	[CT]		CTCCCAGATGTGAGTGTCTCAGGGATCCAGACATGGGGGTATGGGAGGTGCCTCTGATCC[CT]AGGGCTCACTGTGGGTCTCTCTGTTCACAGGGGTCCT GTCCCAGGTGCAGCTGCAGGAGT	ctg832	11	
6348 I		A	TGGCAACACAGCTCATTCAAAAATAAATAATCATTTACTGATGATGT			
6348 P	G	A	ATGACGTGGCAGACGGCTTTGTAGATTCCCATCY			
6348 P	A	A	CGCGCCGAGGAGCTTTGTAGATTCCCATCY			
6348 T	G	A	AGATGATGGGAATCTACAAAGCCCATCATCAGTAAATGATTATTTATTTTTGAATGAGCTGTGTTGCCAGA			
6348 T	A	A	AGATGATGGGAATCTACAAAGCTCATCATCAGTAAATGATTATTTATTTTTGAATGAGCTGTGTTGCCAGA			
6348 IS	[GA]		AAAAATGTTATGTCTGGCAACACAGCTCATTCAAAAATAAATAATCATTTACTGATGATG[GA]GCTTTGTAGATTCCCATCATCTACAGATTAGAACATATAAG GACAAATTCTGAAGAGCTA	ctg832	11	
6363 I		A	CCCTACCTCTGCTGAATGCCAAGGCTGCA			
6363 P	C	A	ATGACGTGGCAGACCCTTGATCCCCTCCAAY			
6363 P	T	A	CGCGCCGAGGTCTTGATCCCCTCCAACY			
6363 T	C	A	GGGGGTTGGAGGGGATCAAGGGCAGCCTTGGCATTCAGCAGAGGTAGGGAA			
6363 T	T	A	GGGGGTTGGAGGGGATCAAGAGCAGCCTTGGCATTCAGCAGAGGTAGGGAA			
6363 IS	[CT]		CCCACACCCTCAGTGCTTGTCCCTGCTCTGTTCCCTACCTCTGCTGAATGCCAAGGCTGC[CT]CTTGATCCCCTCCAACCCCCACAAGACTGAAAGGCATCC TGGCCCCCGGAGGTGTCACCT	ctg832	11	
6381 I		S	GCTTGGGGCCTGTGAATATGGCAAAAATCT			
6381 P	C	S	ATGACGTGGCAGACGTGGTGGTGACATGCY			
6381 P	T	S	CGCGCCGAGGATGGTGGTGACATGCAY			
6381 T	C	S	TCACTGCATGTCACCACCACGATTTTTGCCATATTCACAGGCCCCAAGCAT			
6381 T	T	S	TCACTGCATGTCACCACCATGATTTTTGCCATATTCACAGGCCCCAAGCAT			
6381 IS	[CT]		GTTTTTGCCATTGATCTAACCAAAAGTTTCCAAAACTTGAATCACTGCATGTCACCACCA[CT]GATTTTTGCCATATTCACAGGCCCCAAGCATTCTTATTTCT TCCACATGATCTAGTAAAT			
6394 I		S	CATGCAGAGCCTCAAAGCCCCCGGT			
6394 P	G	S	ATGACGTGGCAGACCAGATAGGTTAATGAGCCCY			
6394 P	T	S	CGCGCCGAGGAAGATAGGTTAATGAGCCCTY			
6394 T	G	S	TCAAAGGGCTCATTAACCTATCTGCCGGGGGCTTTGAGGCTCTGCATGTG			
6394 T	T	S	TCAAAGGGCTCATTAACCTATCTTCCGGGGGCTTTGAGGCTCTGCATGTG			
6394 IS	[GT]		TCCTTCCCAGAGCCAGAGCATCTTGGCAAGGCTCCCTTCAAAGGGCTCATTAACCTATCT[GT]CCGGGGGCTTTGAGGCTCTGCATGTGCAGCATGGAGCA AAGATGTGGGAATTGCTAAGGA	ctg832	11	
6413 I		S	ACAGAGCAGGAAGAGCTGACCATCCAGATGTA			
6413 P	G	S	ATGACGTGGCAGACCCCTCAGCGAGAAACY			
6413 P	A	S	CGCGCCGAGGTCCTCAGCGAGAAACCY			
6413 T	G	S	TCAGGGTTTCTCGCTGAGGGACATCTGGATGGTCAGCTCTTCCTGCTCTGTGA			
6413 T	A	S	TCAGGGTTTCTCGCTGAGGAACATCTGGATGGTCAGCTCTTCCTGCTCTGTGA			

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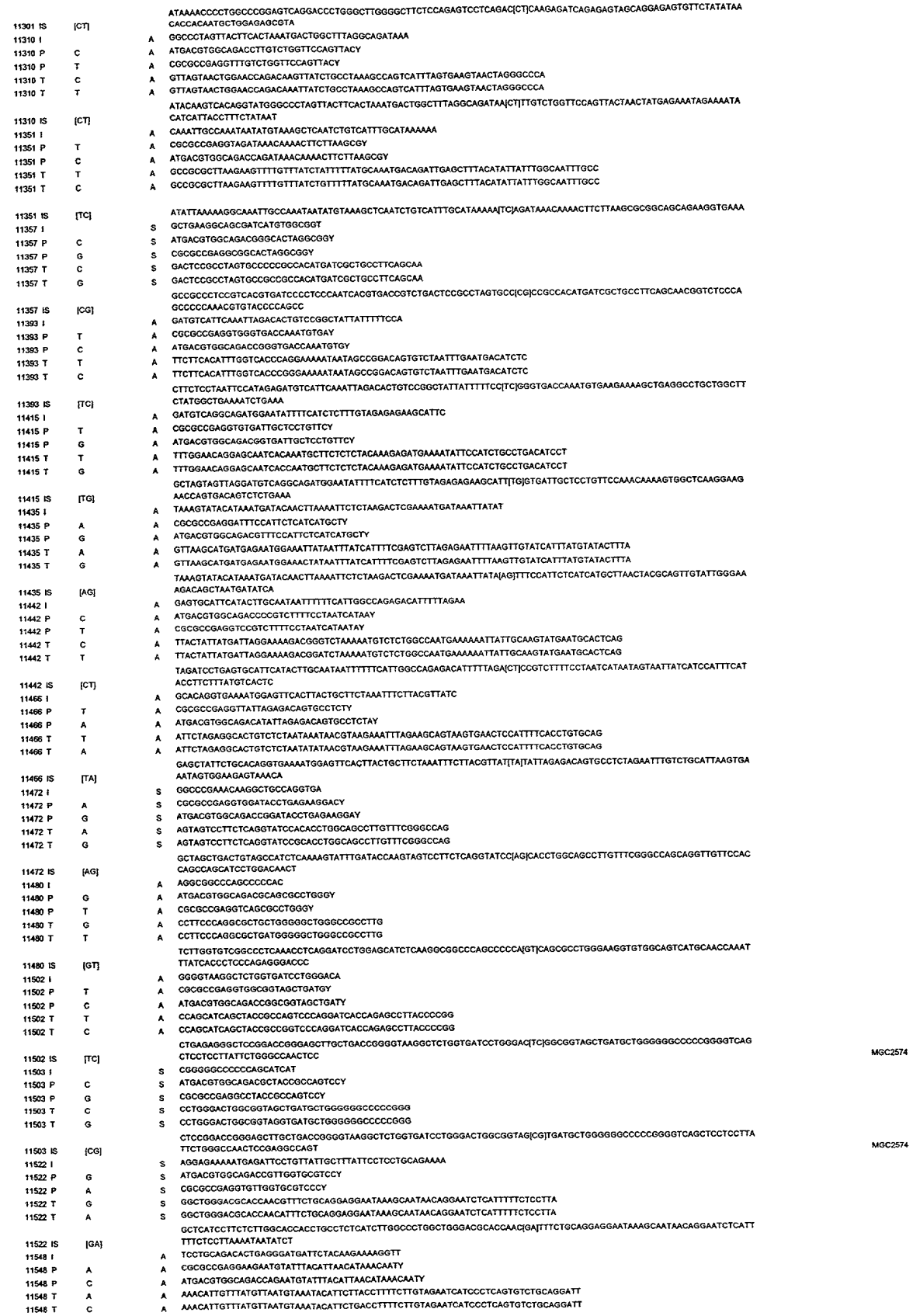
				GTTACAACCTCACGGTGCTGTCCCGGGATGGATCTGTGCAGTCAGGGTTTCTCGCTGAGG[GA]ACATCTGGATGGTCAGCTCTTCCTGCTCTGTGACAGGC		
6413 IS	[GA]			AGAAAGGCAGGGCAGGGCCCCG	ctg832	11
6442 I		S		GGAAGCATTTCTTGACAGAAAGAGTTTCCTCACAAGCTACCT		
6442 P	T	S		CGCGCCGAGGAACAAAAATTGTGAAATATTTTAGCCY		
6442 P	G	S		ATGACGTGGCAGACCACAAAAATTGTGAAATATTTTAGCY		
6442 T	T	S		TTTGGGCTAAAATATTTCACAATTTTTGTTGGTAGCTTGTGAGGAAACTCTTTCTGTCAAGAAATGCTTCCCC		
6442 T	G	S		TTTGGGCTAAAATATTTCACAATTTTTGTGGGTAGCTTGTGAGGAAACTCTTTCTGTCAAGAAATGCTTCCCC		
				ATAACCAATATTTATCCTGATCTTGAAGTTCTTTGGGCTAAAATATTTCACAATTTTTGT[TG]GGTAGCTTGTGAGGAAACTCTTTCTGTCAAGAAATGCTTCC		
6442 IS	[TG]			CCCTCCAGCCTCCATTTTG	ctg832	11
6474 I		A		AATAATGTTAAATGTGAAAACAGAACAGATCATATAACATAAGAATTGAATTATCATTAGT		
6474 P	G	A		ATGACGTGGCAGACGGCAATAATTGCCAAATTTAACY		
6474 P	A	A		CGCGCCGAGGAGCAATAATTGCCAAATTTAACAY		
6474 T	G	A		TTATTGTTAAATTTGGCAATTATTGCCCTAATGATAATTCAATTCTTATGTTATATGATCTGTTCTGTTTTCACATTTAACATTATT		
6474 T	A	A		TTATTGTTAAATTTGGCAATTATTGCTCTAATGATAATTCAATTCTTATGTTATATGATCTGTTCTGTTTTCACATTTAACATTATT		
				AATAATGTTAAATGTGAAAACAGAACAGATCATATAACATAAGAATTGAATTATCATTAG[GA]GCAATAATTGCCAAATTTAACAATAACAAGTAAAGGTAACTT		
6474 IS	[GA]			TTTTAAGTGACTTTTTTA	ctg832	11
6564 I		S		GTGGAGCTGCCCGTTGACGTGCTC		
6564 P	A	S		CGCGCCGAGGTTACCCCTACTTCATGGT		
6564 P	C	S		ATGACGTGGCAGACGTACCCCTACTTCATGGT		
6564 T	A	S		CTGGACCATGAAGTAGGGGTAAAGCACGTCAACGGGCAGCTCCACAA		
6564 T	C	S		CTGGACCATGAAGTAGGGGTACAGCACGTCAACGGGCAGCTCCACAA		
				CACGAGGCCCTTGGGTGGCTTGGCTGGCACCATCTCCTTCTGGACCATGAAGTAGGGGTA[AC]AGCACGTCAACGGGCAGCTCCACAAACACCGGACCTG		
6564 IS	[AC]			CAGGGACAGGGAAGACGCTGAGT	ctg22fin7	22
6590 I		A		CTCTTACCATTGATATGAGATGGAACTTCAAATACATTTATAATTTCCAGAT		
6590 P	G	A		ATGACGTGGCAGACGCCCTCCCAGCAA		
6590 P	A	A		CGCGCCGAGGACCCTCCCAGCAAAT		
6590 T	G	A		CCACATTTGCTGGGAGGGCTCTGGAAATTATAAATGTATTTGAAGTTCCATCTCATATCAATGGTAAGAGCA		
6590 T	A	A		CCACATTTGCTGGGAGGGTTCTGGAAATTATAAATGTATTTGAAGTTCCATCTCATATCAATGGTAAGAGCA		
				TGTTTCTTGCTCTTACCATTGATATGAGATGGAACTTCAAATACATTTATAATTTCCAGA[GA]CCCTCCCAGCAAATGTGGCCTGCTAATGTATATTATTAGTA		
6590 IS	[GA]			TAATTAGGTTAATGTTAGT	ctg17450	X
6620 I		S		CCAGGTCTGCTGCATTTGACTCTTTGTTGTCAGTT		
6620 P	C	S		ATGACGTGGCAGACGTAGTAGGTGGCTTTTTGTY		
6620 P	G	S		CGCGCCGAGGCTAGTAGGTGGCTTTTTGTY		
6620 T	C	S		AATCACAAAAAGCCACCTACTACACTGACAACAAAGAGTCAAATGCAGCAGACCTGGAA		
6620 T	G	S		AATCACAAAAAGCCACCTACTAGACTGACAACAAAGAGTCAAATGCAGCAGACCTGGAA		
				ATCAAGATAAAATATGAACGGGGAGCCACACTCCCAGAAATCACAAAAAGCCACCTACTA[CG]ACTGACAACAAAGAGTCAAATGCAGCAGACCTGGAAGCC		
6620 IS	[CG]			AAACACACAAAACAGAGCACA	ctg25448	18
6630 I		S		CCTTCTCCCAGTCCCGCACGCAT		
6630 P	T	S		CGCGCCGAGGACTGCCTTCTTCAAACC		
6630 P	G	S		ATGACGTGGCAGACCCTGCCTTCTTCAAACC		
6630 T	T	S		CCATGGTTTGAAGAAGGCAGTTGCGTGCGGGACTGGGAGAAGGCT		
6630 T	G	S		CCATGGTTTGAAGAAGGCAGGTGCGTGCGGGACTGGGAGAAGGCT		
				GCTAGCCTCTATCCAGTATAGGGTATACAGCAAGGAAGGCCCATGGTTTGAAGAAGGCAG[TG]TGCGTGCGGGACTGGGAGAAGGCTTTCTCCCGCAGTT		
6630 IS	[TG]			AAACTGGTGCATGAATTGGAAGG	ctg21fin5	21
6649 I		A		CCTTCCCCGCCCCTTCCAAGTAGAAATCTAGAAC		
6649 P	T	A		CGCGCCGAGGTCACCAGAGTCCTACAGY		
6649 P	G	A		ATGACGTGGCAGACGCACCAGAGTCCTACAY		
6649 T	T	A		TTTGCTGTAGGACTCTGGTGATTCTAGATTTCTACTTGGAAGGGGCGGGGAAGGGC		
6649 T	G	A		TTTGCTGTAGGACTCTGGTGCTTCTAGATTTCTACTTGGAAGGGGCGGGGAAGGGC		
				CAAAGAAACGCACAGGGTCGAGCCCGCCCTTCCCCGCCCCTTCCAAGTAGAAATCTAGAA[TG]CACCAGAGTCCTACAGCAAAACCAGGACGCTGAACTCA		
6649 IS	[TG]			TCCCGAAGACCCGGCAGCCCCT	ctg14210	12
6668 I		S		GCCCTGGAGGAGTATATATCAAAAAGACATCCCATATACA		
6668 P	A	S		CGCGCCGAGGTAAATAACTGAGGCCCTAACY		
6668 P	G	S		ATGACGTGGCAGACCAAATAACTGAGGCCCTAAY		
6668 T	A	S		TGTTGTTAGGGCCTCAGTTATTTAGTATATGGGATGTCTTTTTGATATATACTCCTCCAGGGCTT		
6668 T	G	S		TGTTGTTAGGGCCTCAGTTATTTGGTATATGGGATGTCTTTTTGATATATACTCCTCCAGGGCTT		
				TTTACATGCTTTTAATACAGCTAATTACAAGCACATGTGTTGTTAGGGCCTCAGTTATTT[AG]GTATATGGGATGTCTTTTTGATATATACTCCTCCAGGGCTT		
6668 IS	[AG]			ATCTTTCCTTTCCTACTGT	ctg15944	11
6672 I		S		GGGGGCTGGGGTCAGTTGGGGA		
6672 P	A	S		CGCGCCGAGGTGTCGGCCGGGY		
6672 P	G	S		ATGACGTGGCAGACCGTCGGCCGGGY		
6672 T	A	S		TAGGCCCGGCCGACACCCCAACTGACCCCAGCCCCCTC		
6672 T	G	S		TAGGCCCGGCCGACGCCCCAACTGACCCCAGCCCCCTC		
				GTTCCTCCGTGAACGTGGGCCCCTCGTGGGTGGAGCGTCATCCTGTTAGGCCCGGCCGAC[AG]CCCCAACTGACCCCAGCCCCCTCTGCCCACAGACAC		
6672 IS	[AG]			GGTCCGCTCTTTCCTGAAGCGCAG	ctg2712	15
6676 I		A		GCTTGGCAGCCACGTCTCTGTCTCTGAT		
6676 P	G	A		ATGACGTGGCAGACGGGAGCCCTGGTTCY		
6676 P	A	A		CGCGCCGAGGAGGAGCCCTGGTTCY		
6676 T	G	A		AGCAGAACCAGGGCTCCCTCAGAGACAGAGACGTGGCTGCCAAGCTG		
6676 T	A	A		AGCAGAACCAGGGCTCCTTCAGAGACAGAGACGTGGCTGCCAAGCTG		
				TGCAGGAGGAACCAGAGCCCAGTCGGTGACCCAGCTTGGCAGCCACGTCTCTGTCTCTGA[GA]GGAGCCCTGGTTCTGCTGAGGTGCAACTACTCATCGT		
6676 IS	[GA]			CTGTTCCACCATATCTCTTCTGG	ctg15415	X
6684 I		A		TGCTGCTGAGGTGCAACTACTCATCTTCTTATTCACCT		
6684 P	A	A		CGCGCCGAGGATCTCTCTTCTGGTATGTGCY		
6684 P	G	A		ATGACGTGGCAGACGTCTCTCTTCTGGTATGTGY		
6684 T	A	A		TGTTGCACATACCAGAAGAGAGATGGTGAATAAGAAGATGAGTAGTTGCACCTCAGCAGCACC		
6684 T	G	A		TGTTGCACATACCAGAAGAGAGACGGTGAATAAGAAGATGAGTAGTTGCACCTCAGCAGCACC		
				CTCTGTCTCTGAAGGAACCCCGGTGCTGCTGAGGTGCAACTACTCATCTTCTTATTCACC[AG]TCTCTCTTCTGGTATGTGCAACACCCCAACAAAGGACTC		
6684 IS	[AG]			CAGCTTCTCCTGAAGTACACA	ctg15415	X
6721 I		S		ACCTATGCTATACATTCCACATGATCAAGAAAAATTGTTGGTT		
6721 P	T	S		CGCGCCGAGGACATTAACATTTTATAGGTAAAGTTTATGY		
6721 P	C	S		ATGACGTGGCAGACGCATTAACATTTTATAGGTAAAGTTTATY		
6721 T	T	S		TTCACATAAACTTTACCTATAAAATGTTAATGTACCAACAATTTTTCTTGATCATGTGGAATGTATAGCATAGGTGA		
6721 T	C	S		TTCACATAAACTTTACCTATAAAATGTTAATGCACCAACAATTTTTCTTGATCATGTGGAATGTATAGCATAGGTGA		
				ATAACTAGGACATTGCCATACCATCATTTTCACATAAACTTTACCTATAAAATGTTAATG[TC]ACCAACAATTTTTCTTGATCATGTGGAATGTATAGCATAGGT		
6721 IS	[TC]			GATTAGAAATAAAAATTA	ctg15415	X
6751 I		S		CAGCCTATCAACTTTTATTTATTTAGCTGTTATGTGCATTGCTTAAA		
6751 P	G	S		ATGACGTGGCAGACCTTGGATACTCATCATTTACTTTCY		
6751 P	A	S		CGCGCCGAGGTTTGGATACTCATCATTTACTTTCY		
6751 T	G	S		ATTAGAAAGTAAATGATGAGTATCCAAGTTAAGCAATGCACATAACAGCTAAATAAATAAAAGTTGATAGGCTGAA		
6751 T	A	S		ATTAGAAAGTAAATGATGAGTATCCAAATTAAGCAATGCACATAACAGCTAAATAAATAAAAGTTGATAGGCTGAA		
				ACACACACGAGTAAGACGTGCTTTATTGTACATATTAGAAAGTAAATGATGAGTATCCAA[GA]TTAAGCAATGCACATAACAGCTAAATAAATAAAAGTTGATA		
6751 IS	[GA]			GGCTGAATATTCAATACTG	ctg15944	11
6776 I		A		GGACGGTCAGTTCCCTCGAATCCTTCTGAATATGAAGAAA		
6776 P	C	A		ATGACGTGGCAGACCGCCTCTTGCACCTY		
6776 P	T	A		CGCGCCGAGGTGCCTCTTGCACCTY		
6776 T	C	A		CACCAGGTGCAAGAGGCGTTCTTCATATTCAGAAGGATTCGAGGGAACTGACCGTCCTC		

FIGURE 129E



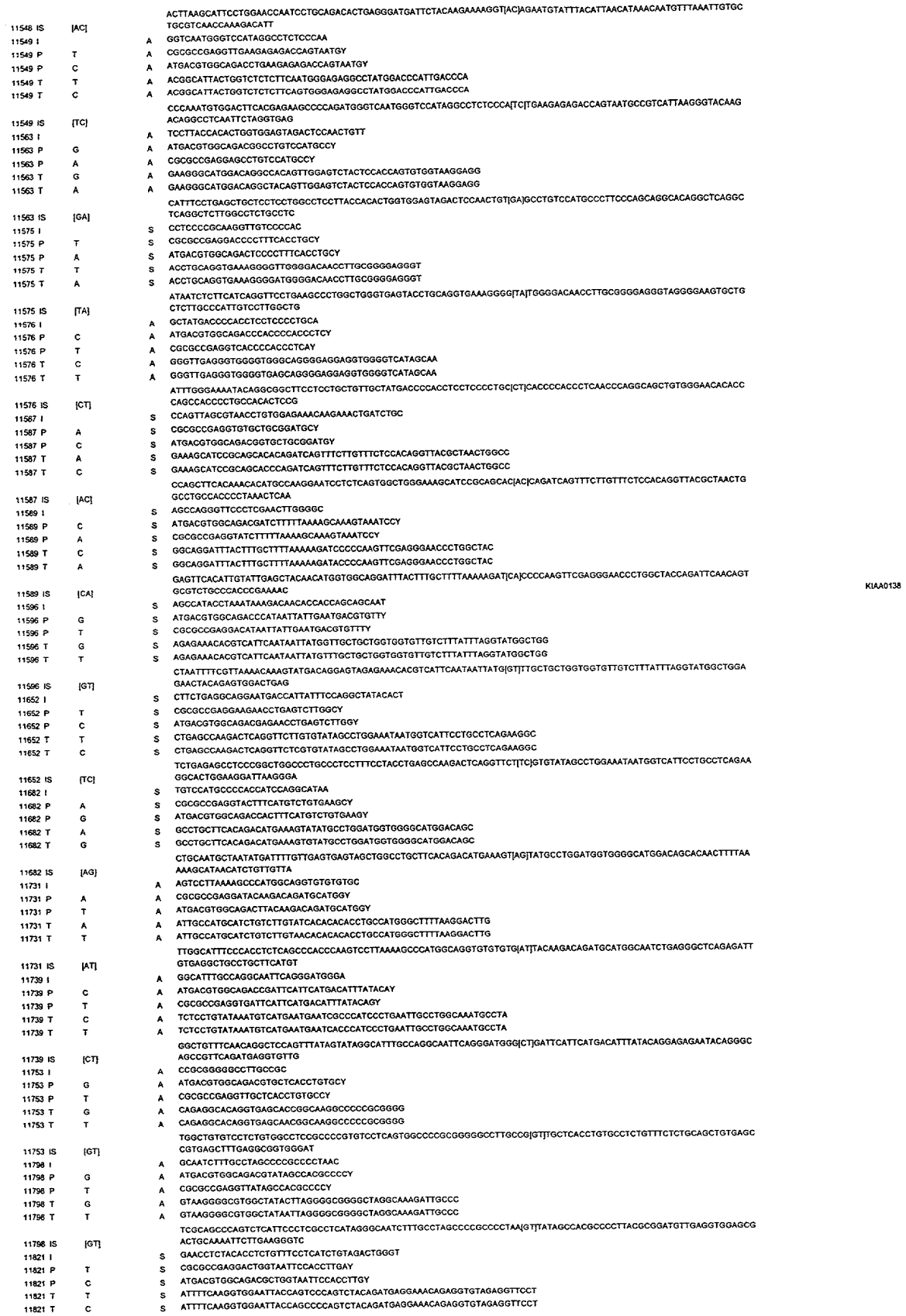
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FIGURE 129E



Applicant's Docket No. 26530.20

FIGURE 129E



KIAA0138

Confidential and Proprietary Information of Celera Genomics

FIGURE 129E

				AAGGAAATGTGCACATTCTTATTTAATTTTTATACTAAATTTTCAAGGTGGAATTACCAG[TC]CCCAGTCTACAGATGAGGAAACAGAGGTGTAGAGGTTCCTA
11821	IS	[TC]		CTACAGAAGCAGAATGAGG
11860	I		A	CCGGCAGCAGCGACTCCTTGAGCC
11860	P	A	A	CGCGCCGAGGACCAGCAAGAGCCCY
11860	P	T	A	ATGACGTGGCAGACTCCAGCAAGAGCCCY
11860	T	A	A	CGGAGGGCTCTTGCTGGTGCTCAAGGAGTCGCTGCTGCCGGCT
11860	T	T	A	CGGAGGGCTCTTGCTGGAGCTCAAGGAGTCGCTGCTGCCGGCT
				CTGGCCCTGACTGCAGCCTGTGACATCCCTCCCACAGCCGGCAGCAGCGACTCCTTGAGC[AT]CCAGCAAGAGCCCTCCGGGAAAGAGCAGCCTCGGCCT
11860	IS	[AT]		GGACAACTCGCTGTCCACTTCTT
11903	I		A	CAACTCATCTCACATTCTTCCAAACTATTTGGACAACAGAGCTTTT
11903	P	C	A	ATGACGTGGCAGACCTCATCACCTAATGCAGATTAY
11903	P	A	A	CGCGCCGAGGATCATCACCTAATGCAGATTACY
11903	T	C	A	GACTGTAATCTGCATTAGGTGATGAGAAAGCTCTGTTGTCCAAATAGTTTGGAAGAATGTGAGATGAGTTGCA
11903	T	A	A	GACTGTAATCTGCATTAGGTGATGATAAAGCTCTGTTGTCCAAATAGTTTGGAAGAATGTGAGATGAGTTGCA
				CTGCCATTCAGACTGCAACTCATCTCACATTCTTCCAAACTATTTGGACAACAGAGCTTT[CA]TCATCACCTAATGCAGATTACAGTCTCACAGAATTGAGTGT
11903	IS	[CA]		TCAGGCAGACACTGATGTG
11912	I		S	CCCTGCACCTCTGGGAGAAGAGCCCA
11912	P	G	S	ATGACGTGGCAGACCAGCCCTGGGATTCCY
11912	P	A	S	CGCGCCGAGGTAGCCCTGGGATTCCY
11912	T	G	S	CATGGGAATCCCAGGGCTGGGGCTCTTCTCCCAGAGGTGCAGGGTC
11912	T	A	S	CATGGGAATCCCAGGGCTAGGGCTCTTCTCCCAGAGGTGCAGGGTC
				GGTGAGTTCTCTGTGTGCAGTCCTGATCAGCAAGTAGAAACACATGGGAATCCCAGGGCT[GA]GGGCTCTTCTCCCAGAGGTGCAGGGTCAGGGCTGGGC
11912	IS	[GA]		TGGTTTTCTTCAGCAGAGTGAGG
11924	I		S	ACATATTTGCCAAGATGCTGACGGGGTGTTCCA
11924	P	G	S	ATGACGTGGCAGACCCCCAGCACCTCCY
11924	P	A	S	CGCGCCGAGGTCCCAGCACCTCCTY
11924	T	G	S	GGGGAGGAGGTGCTGGGGGGAACACCCCGTCAGCATCTTGGCAAATATGTCC
11924	T	A	S	GGGGAGGAGGTGCTGGGAGGAACACCCCGTCAGCATCTTGGCAAATATGTCC
				AGCCTGTGAGGAGGACTGCCGTCCGTTACGTCTGTGGAGGGAAGGGGAGGAGGTGCTGGG[GA]GGAACACCCCGTCAGCATCTTGGCAAATATGTCCCT
11924	IS	[GA]		AGGACCCCACTGTATGTGGAAGCA
11926	I		S	CCCCGGGGGGTGGTCTCATCTCTGT
11926	P	G	S	CGCGCCGAGGCTAGGGCACCTGTTCTY
11926	P	C	S	ATGACGTGGCAGACGTAGGGCACCTGTTCTY
11926	T	G	S	AGAGAGAACAGGTGCCCTAGCAGAGATGAGACCACCCCCCGGGGAG
11926	T	C	S	AGAGAGAACAGGTGCCCTACCAGAGATGAGACCACCCCCCGGGGAG
				TGGACAGTGTGAGGGATGTAAAGAGGAGAAAGGCAGACCCCAGAGAGAACAGGTGCCCTA[GC]CAGAGATGAGACCACCCCCCGGGGAGTGGGGAGAGC
11926	IS	[GC]		CTCAATCAGAGTCCCTTACTGGAG
11928	I		S	ACTGAAACAGAAGCAAAGCCCCTTTTCCCTCCC
11928	P	T	S	CGCGCCGAGGACATTCTGACAGCTGAAAAY
11928	P	A	S	ATGACGTGGCAGACTCATTCTGACAGCTGAAAAY
11928	T	T	S	TGAGTTTTCAGCTGTCAGAATGTGGAGGGAAAAGGGGCTTTGCTTCTGTTTCAGTCC
11928	T	A	S	TGAGTTTTCAGCTGTCAGAATGAGGAGGGAAAAGGGGCTTTGCTTCTGTTTCAGTCC
				CCTGGCACCTTGGACAGTGATTTGATGGTTAGTTGAGGTGAGTTTTCAGCTGTCAGAATG[TA]GGAGGGAAAAGGGGCTTTGCTTCTGTTTCAGTCCCGAG
11928	IS	[TA]		AGTGAGCCTGAAAGAGTGGCAC
11929	I		A	GGCTGAGGCTCATGATTTTGATTCACCTAAGGTACTGAAAACT
11929	P	A	A	CGCGCCGAGGATCCTGAAAACCTTAGGGTY
11929	P	G	A	ATGACGTGGCAGACGTCCTGAAAACCTTAGGGY
11929	T	A	A	CCCAACCCTAAGGTTTTCAGGATGTTTTCAGTACCTTAGGTGAATCAAAATCATGAGCCTCAGCCCA
11929	T	G	A	CCCAACCCTAAGGTTTTCAGGACGTTTTCAGTACCTTAGGTGAATCAAAATCATGAGCCTCAGCCCA
				GATTGAGGGCAGAGGCTGGGCTGAGGCTCATGATTTTGATTCACCTAAGGTACTGAAAAC[AG]TCCTGAAAACCTTAGGGTTGGGGAGTTGAGGAGCCCTA
11929	IS	[AG]		ATGGGATATGAGCTTGAAACCA
11943	I		S	CCGCGCTCCCGCGCCTT
11943	P	C	S	ATGACGTGGCAGACGTCCGGCTCACCCY
11943	P	T	S	CGCGCCGAGGATCCGGCTCACCCY
11943	T	C	S	GTCTGGGTGAGCCGGACAGGCGCGGGAGCGCGGGG
11943	T	T	S	GTCTGGGTGAGCCGGATAGGCGCGGGAGCGCGGGG
				CCACATCTGCTACTTCCTCGACTACGGCGCGCTCAGCCTCTACAGTCTGGGTGAGCCGGA[CT]AGGCGCGGGAGCGCGGGGTCTGGGCGTCCCGGAGCG
11943	IS	[CT]		GGGCGAGGGGTGGGACGCGGGACA
11957	I		S	GATTCCACTGTGGGGATGCCTCTTGTTAGAGCT
11957	P	C	S	ATGACGTGGCAGACGTACTGCATTTGTACACGGY
11957	P	T	S	CGCGCCGAGGATACTGCATTTGTACACGGY
11957	T	C	S	CTCCCCGTGTACAAATGCAGTACGCTCTAACAAGAGGCATCCCCACAGTGGAATCCT
11957	T	T	S	CTCCCCGTGTACAAATGCAGTATGCTCTAACAAGAGGCATCCCCACAGTGGAATCCT
				CACATTGGACGGCAGTGTGCGTTCCAATTATAGCTCCTCTCCCCGTGTACAAATGCAGTA[CT]GCTCTAACAAGAGGCATCCCCACAGTGGAATCCTCATAA
11957	IS	[CT]		CTCGAGGTGTTGCAATCAGAT
11963	I		A	GCTGTCGCCTCAGTCTGCGCACAT
11963	P	A	A	CGCGCCGAGGAGCATGCACCCCAY
11963	P	G	A	ATGACGTGGCAGACGGCATGCACCCCAY
11963	T	A	A	ACCCTGGGGTGCATGCTTGTGCGCAGACTGAGGCGACAGCTG
11963	T	G	A	ACCCTGGGGTGCATGCCTGTGCGCAGACTGAGGCGACAGCTG
				GCAAGAGAGCTGCAGCCTGGGCCCGAGCTCAGAAACAGCTGTCGCCTCAGTCTGCGCACA[AG]GCATGCACCCCAGGGTAGTGCCTGCAGGGATGCATG
11963	IS	[AG]		TGTCCCCGTGGGGGTGCCTGTGCC
11964	I		A	CCCACAACAGAAGGGGCTCTCGGCTA
11964	P	T	A	CGCGCCGAGGTGTCTGGCCTCTCTGY
11964	P	C	A	ATGACGTGGCAGACCGTCTGGCCTCTCTGY
11964	T	T	A	AGGCCAGAGAGGCCAGACAAGCCGAGAGCCCCTTCTGTTGTGGGCA
11964	T	C	A	AGGCCAGAGAGGCCAGACGAGCCGAGAGCCCCTTCTGTTGTGGGCA
				CTCCCCAGCCTGTGCAGGCCTGCAAACCCAGGCTGCCCACAACAGAAGGGGCTCTCGGCT[TC]GTCTGGCCTCTCTGGCCTCCCAAGCAGGTATGGGAGG
11964	IS	[TC]		GCGGGGCAAGTGTGGGCTGATCA
11971	I		S	CTTTGGTGTGAGGTGTGCTGGCCTCATGT
11971	P	T	S	CGCGCCGAGGAAGATGATGGATAAGAAAGTGGY
11971	P	C	S	ATGACGTGGCAGACGAGATGATGGATAAGAAAGTGGY
11971	T	T	S	TCTGCCACTTTCTTATCCATCATCTTCATGAGGCCAGCACACCTCACACCAAAGCC
11971	T	C	S	TCTGCCACTTTCTTATCCATCATCTCCATGAGGCCAGCACACCTCACACCAAAGCC
				CGGAATGGACCAGGTCTAATATTTGTATTTTCTGATCTGCCACTTTCTTATCCATCATCT[TC]CATGAGGCCAGCACACCTCACACCAAAGCCCACCAGGCTC
11971	IS	[TC]		TTTTTCTTTCTATACCCCAT
12004	I		A	TGAAGTCTTCATGAGTAGTTTTCAGAAAGGGAGTTGACTCCCA
12004	P	T	A	CGCGCCGAGGTGTGAGGGAATCCCTCY
12004	P	C	A	ATGACGTGGCAGACCGTGAGGGAATCCCTY
12004	T	T	A	ATGAGAGGGATTCCCTCACAGGGAGTCAACTCCCTTTCTGAAAACTACTCATGAAGACTTCAGG
12004	T	C	A	ATGAGAGGGATTCCCTCACGGGGAGTCAACTCCCTTTCTGAAAACTACTCATGAAGACTTCAGG
				GACAATGCTTCAAACTCCTGAAGTCTTCATGAGTAGTTTTCAGAAAGGGAGTTGACTCCC[TC]GTGAGGGAATCCCTCTCATAGGATCCCATGCCCTGAGAA
12004	IS	[TC]		TAAGTTGGAAGAGCTCAGCCA
12021	I		S	CTTGAAGGCATAACCAACATACTTCTGAATTTTCCCAC
12021	P	A	S	CGCGCCGAGGTGCATCCTTCTTCCCAY
12021	P	C	S	ATGACGTGGCAGACGGCATCCTTCTTCCCAY
12021	T	A	S	AAAGTGGGAAGAAGGATGCATGGGAAAATTCAGAAGTATGTTGGTTATGCCTTCAAGGA
12021	T	C	S	AAAGTGGGAAGAAGGATGCCTGGGAAAATTCAGAAGTATGTTGGTTATGCCTTCAAGGA

P2RXL1

SLC7A4

Applied Biosystems Inc. Proprietary and Confidential

FIGURE 129E

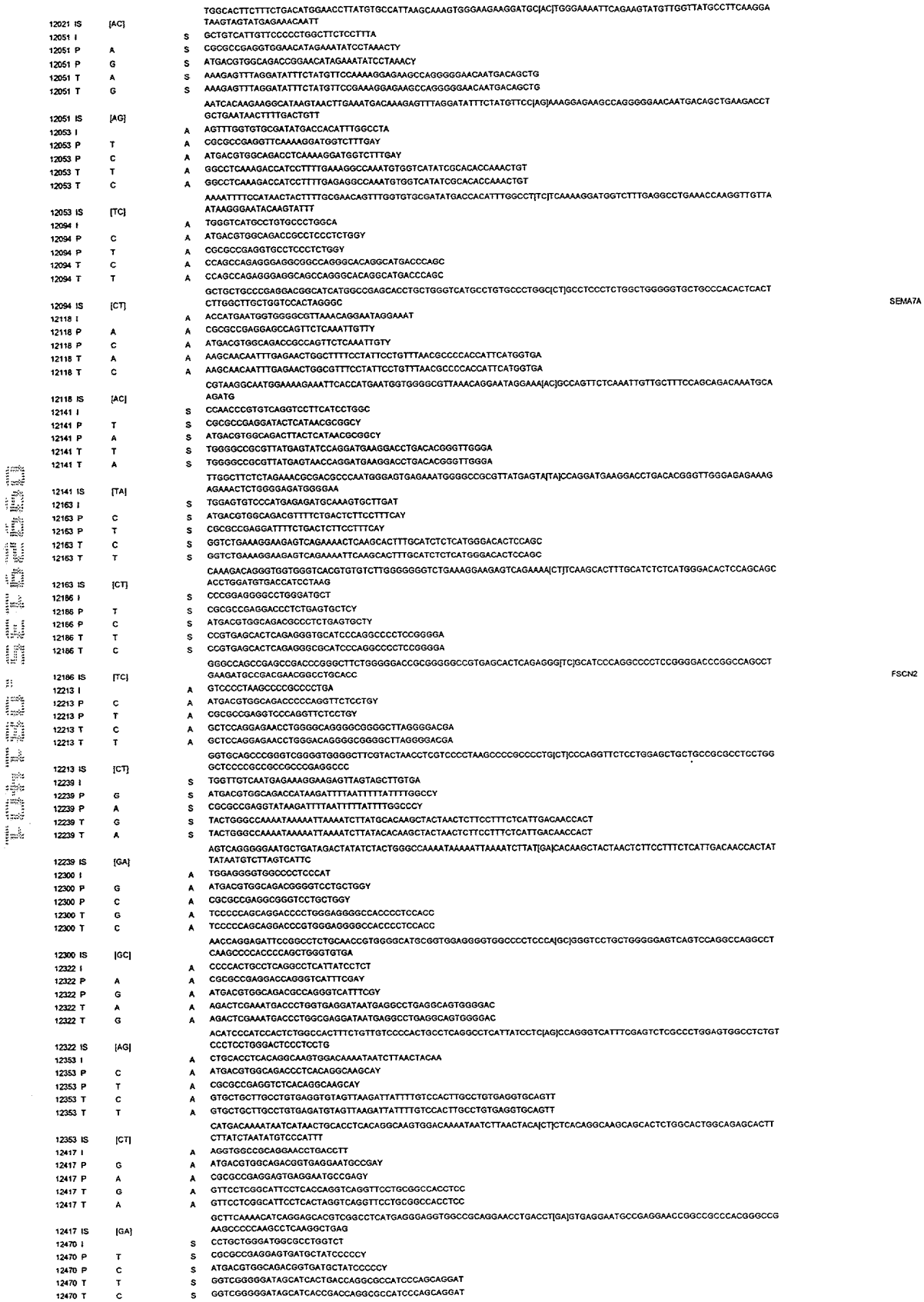
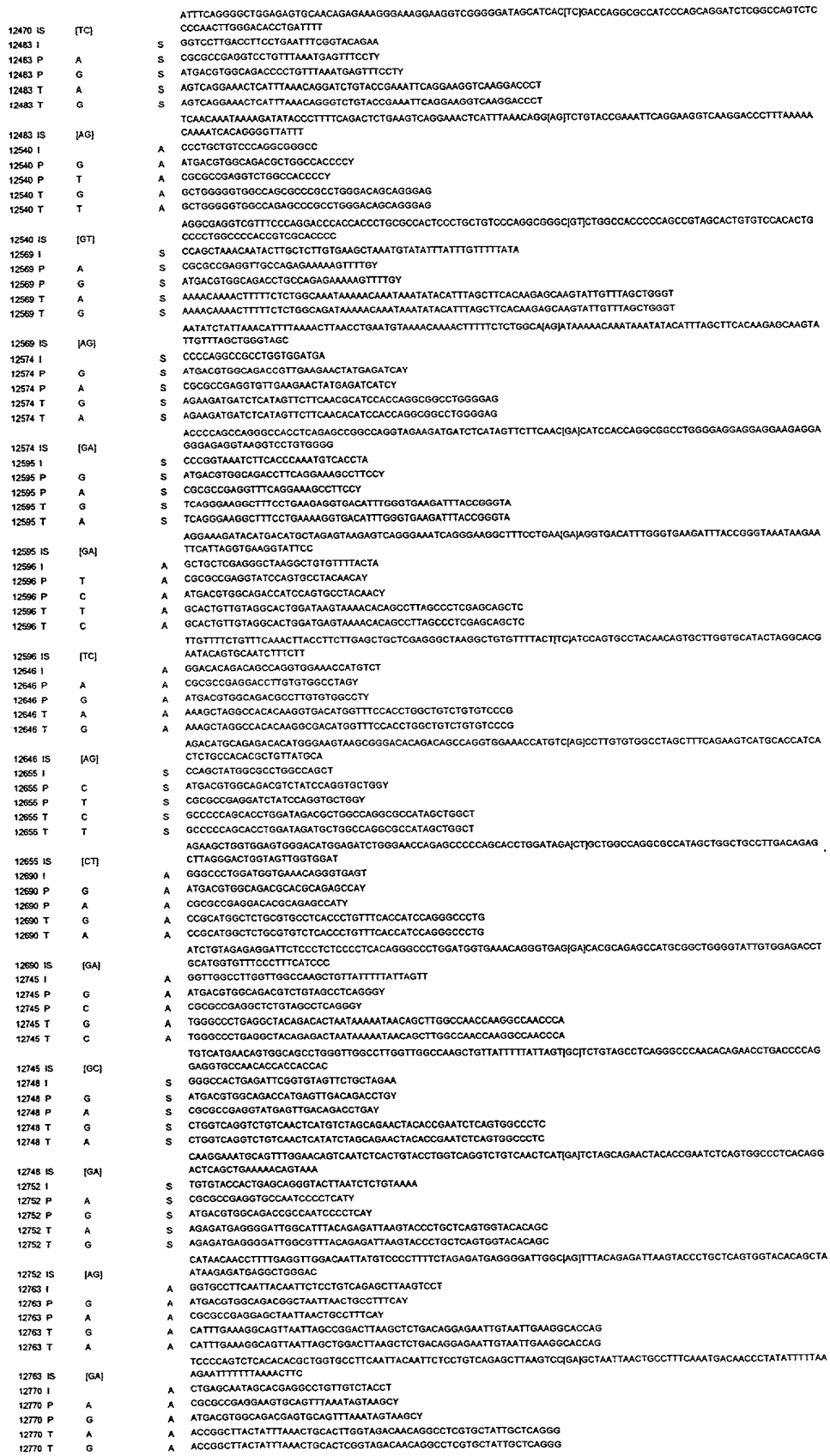


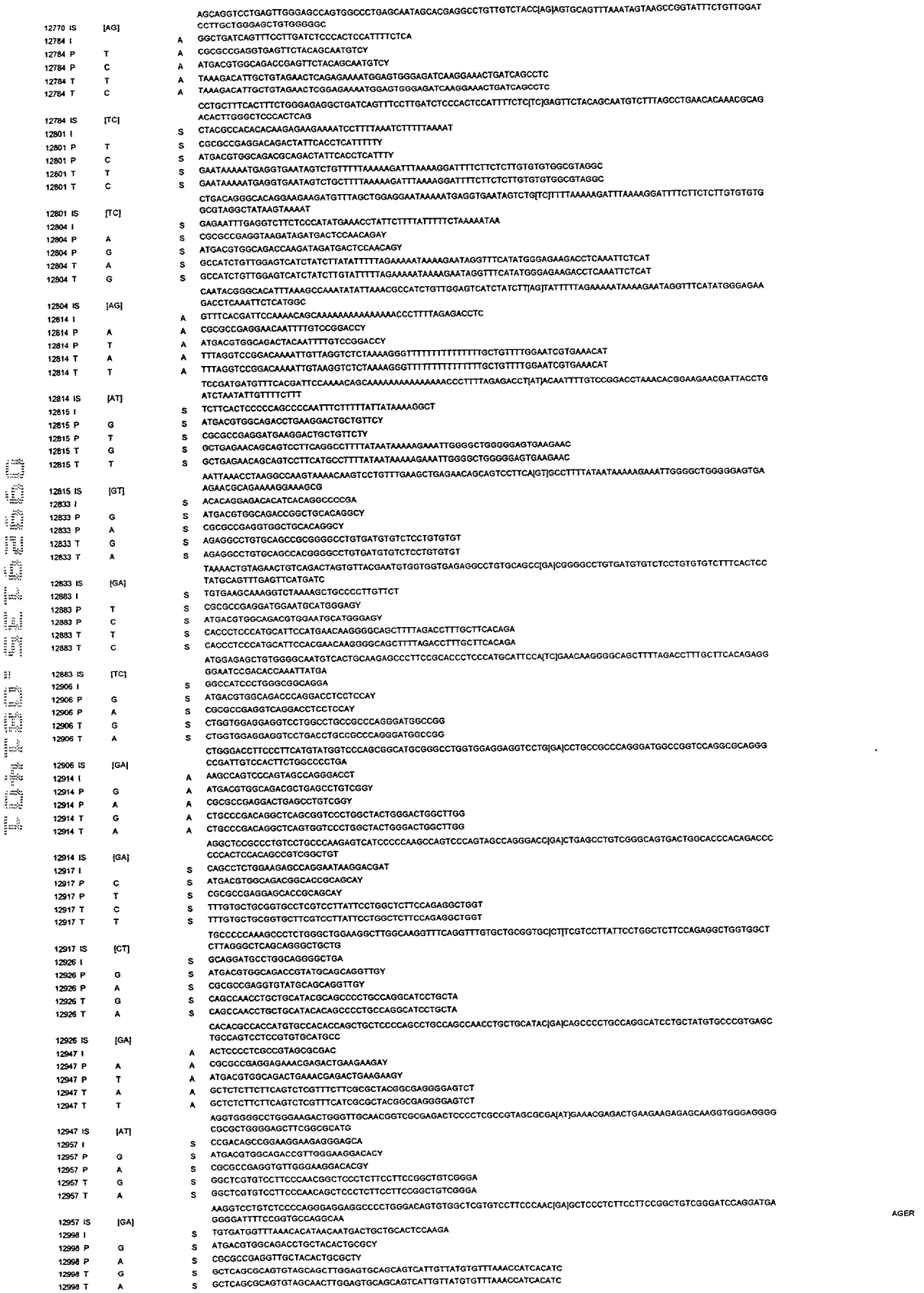
Exhibit 1004 Page 1 of 1

FIGURE 129E



Applicant's Docket No. 1662.1000-000

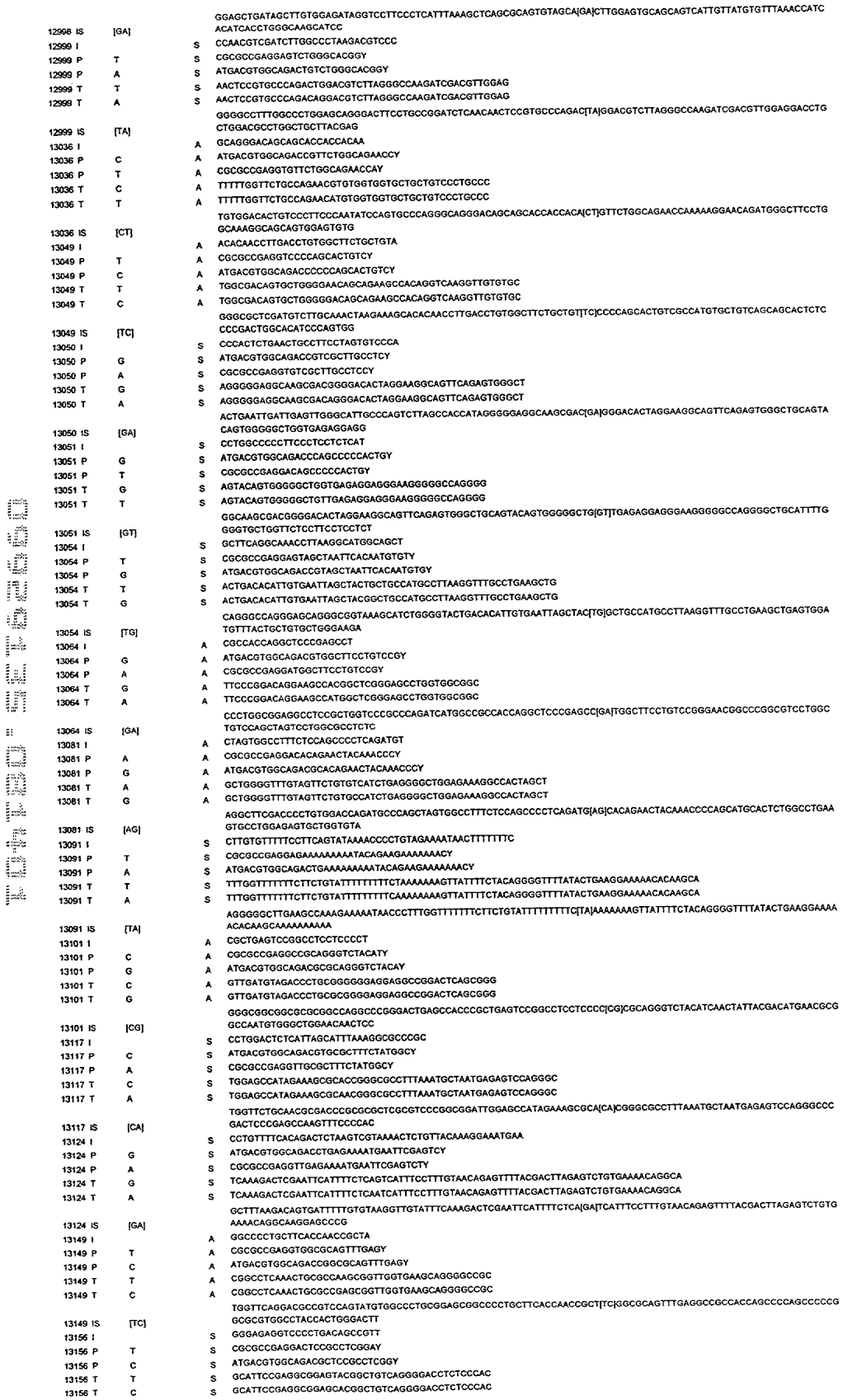
FIGURE 129E



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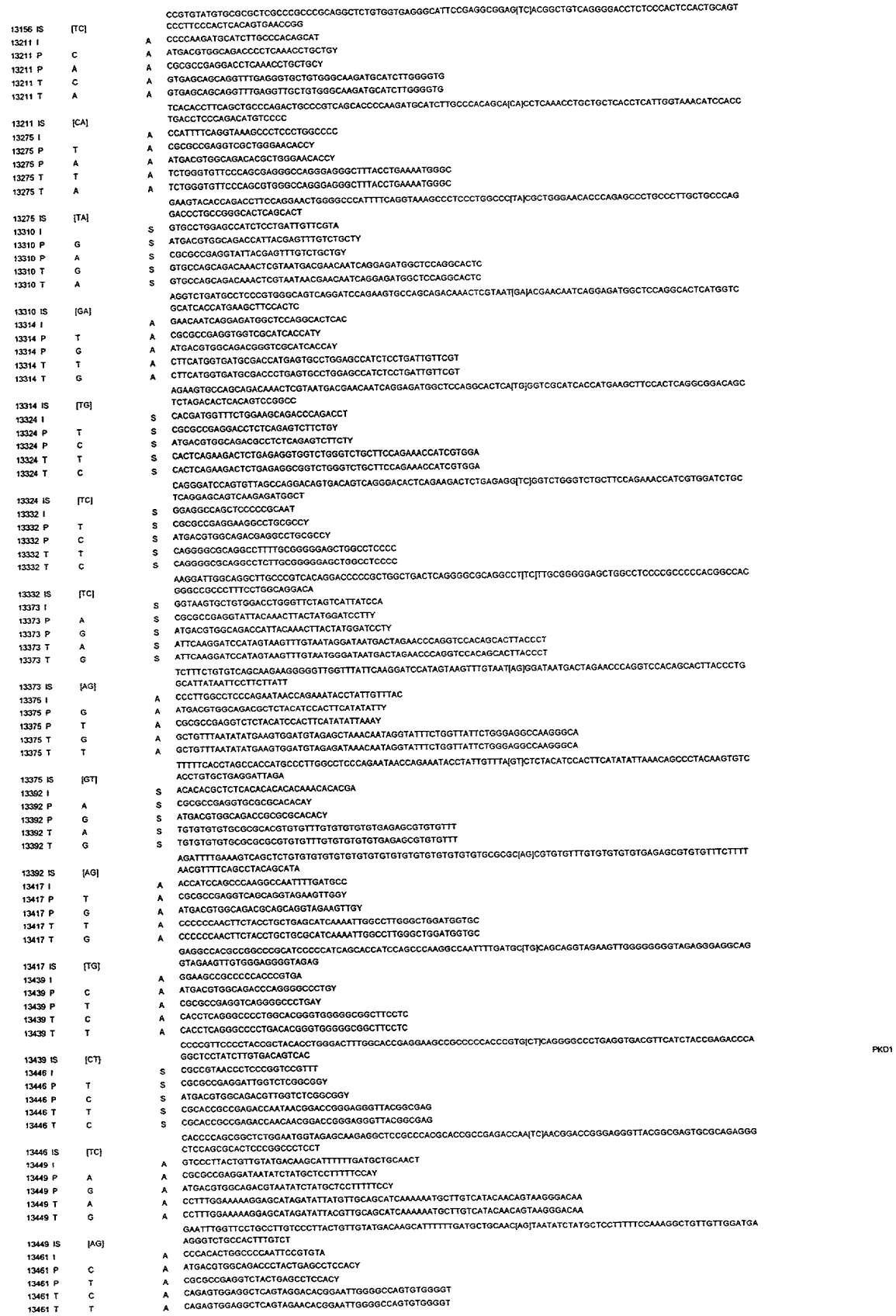
AGER

FIGURE 129E



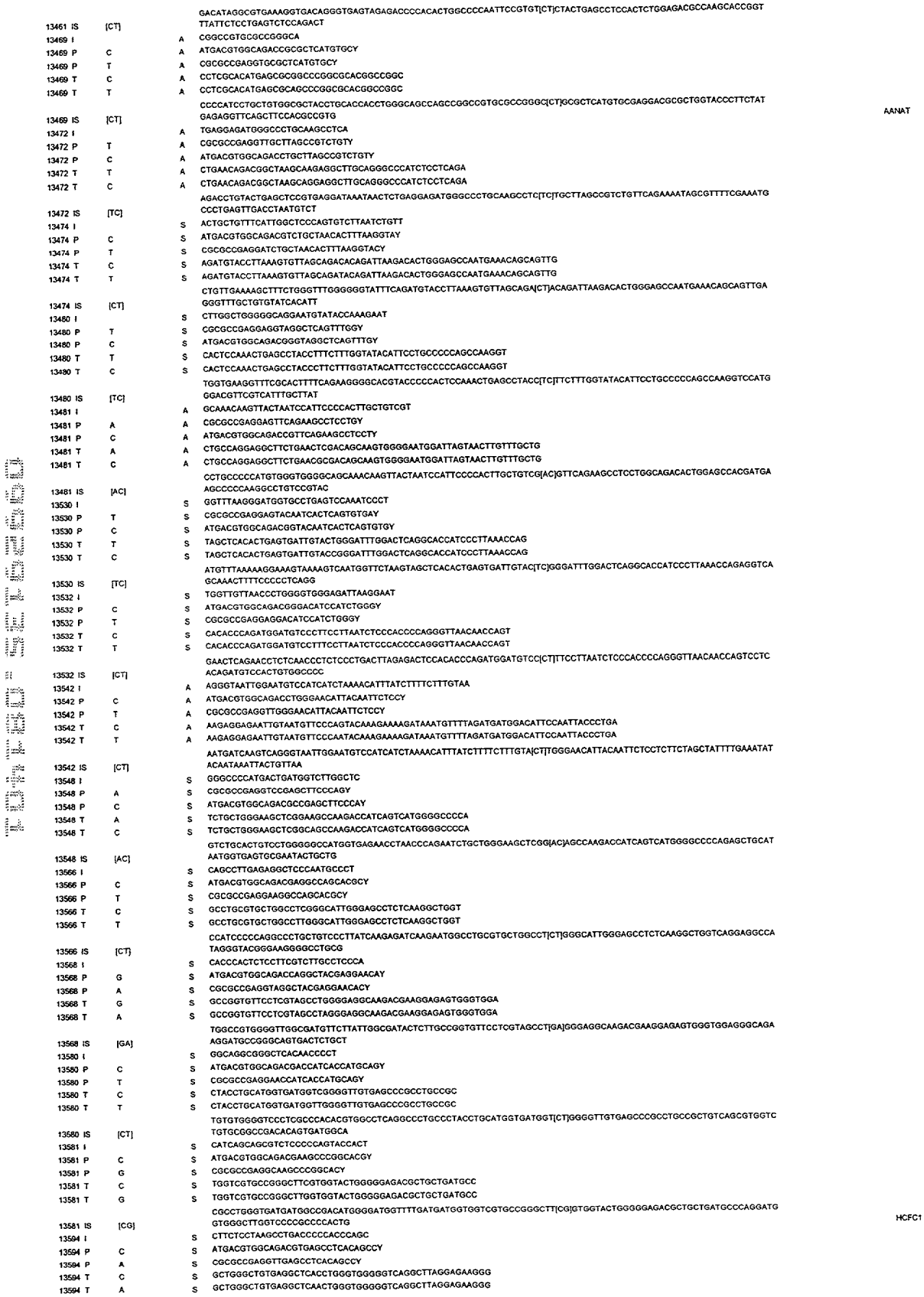
Filed on behalf of Applied Biosystems

FIGURE 129E



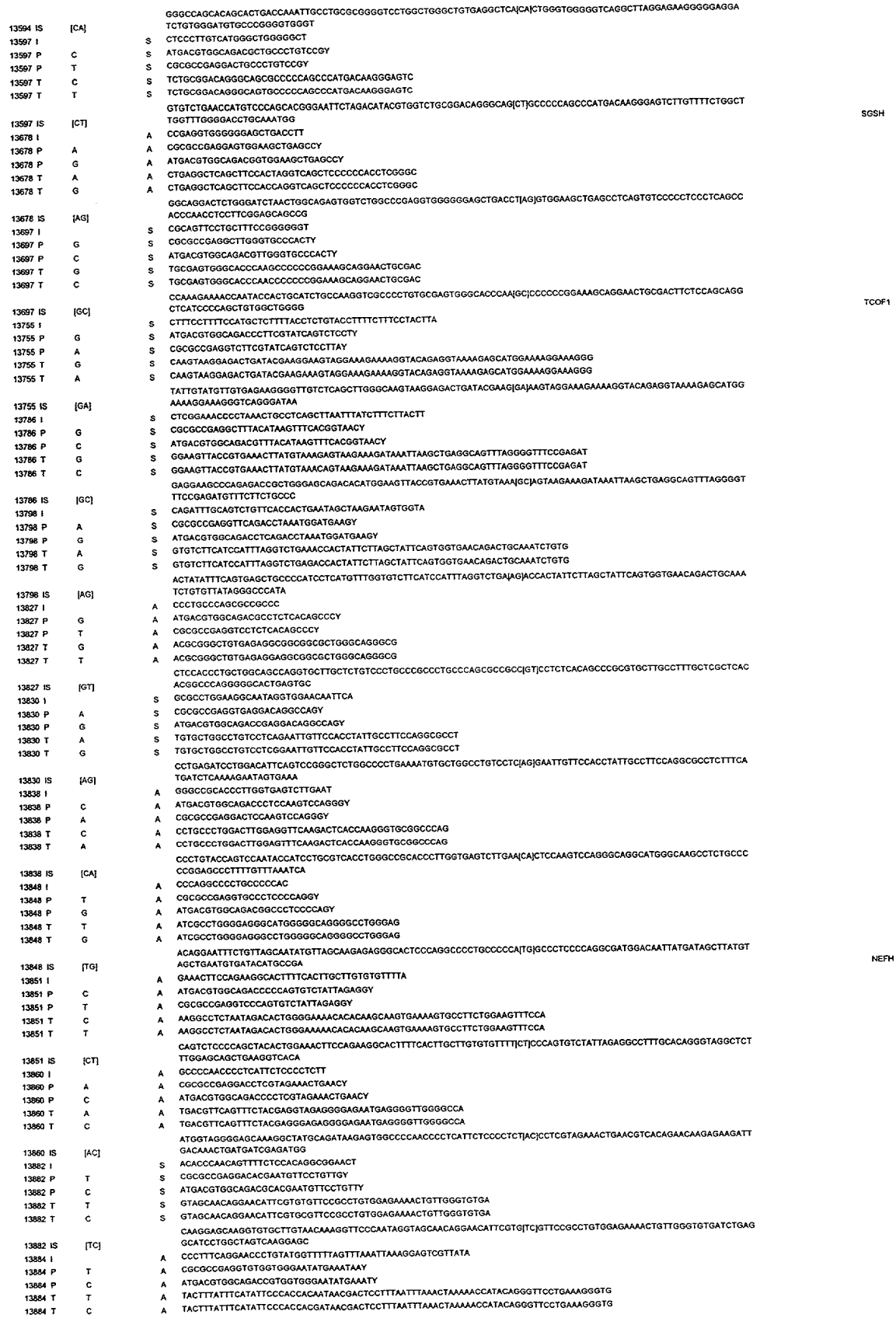
PKD1

FIGURE 129E



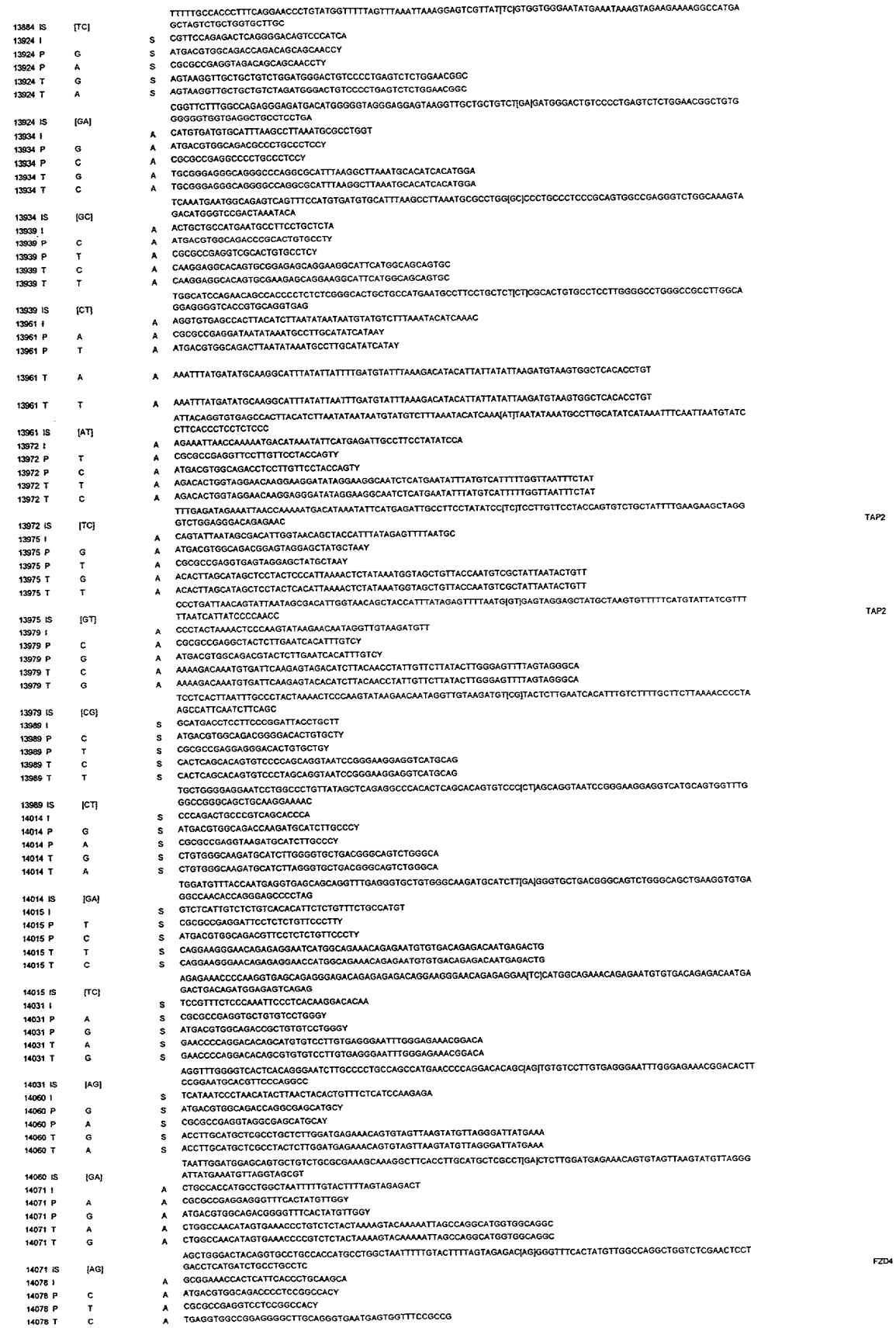
Applicant's Docket No. 2000-0010.03

FIGURE 129E



Filed: June 30, 2006

FIGURE 129E



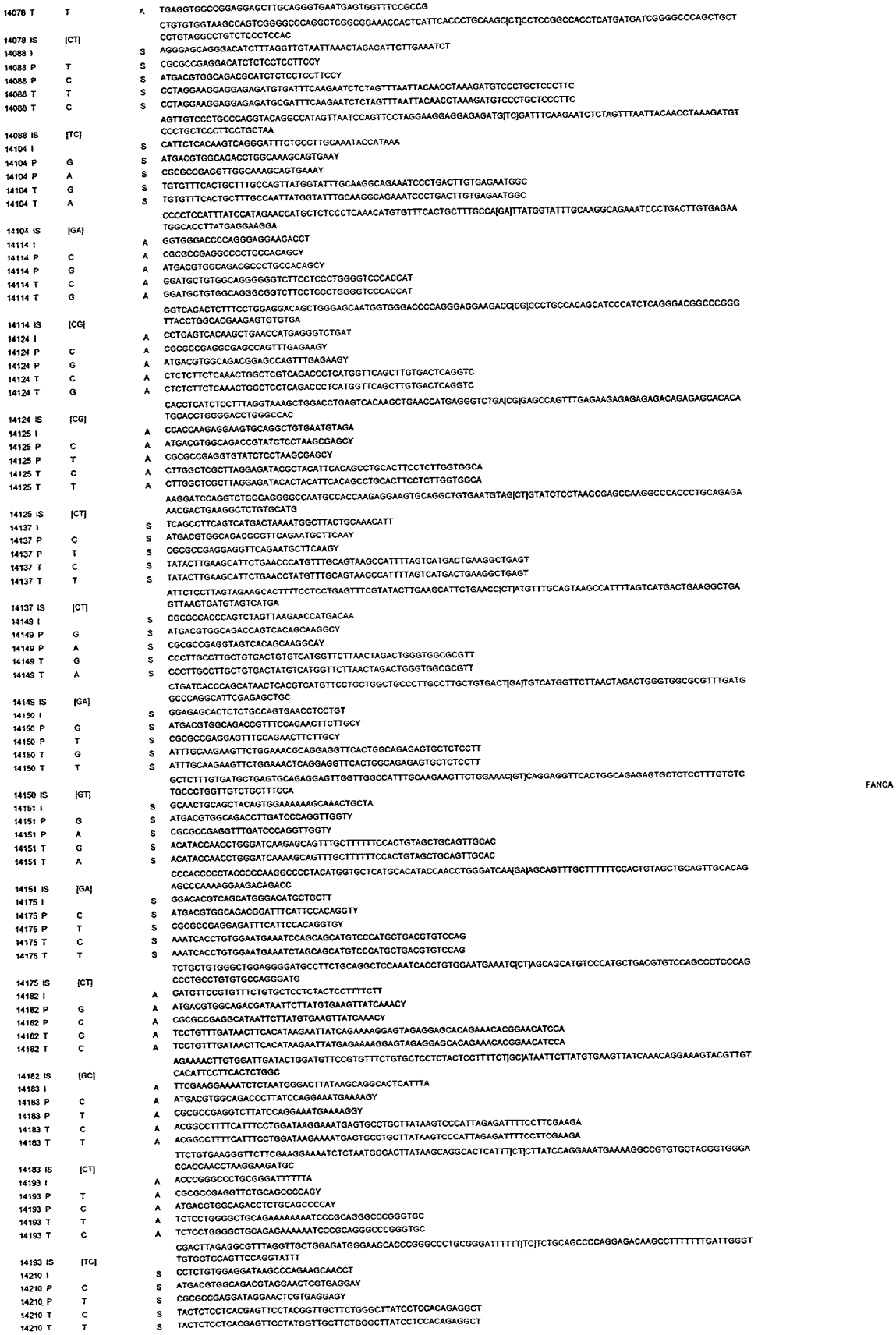
TAP2

TAP2

FZD4

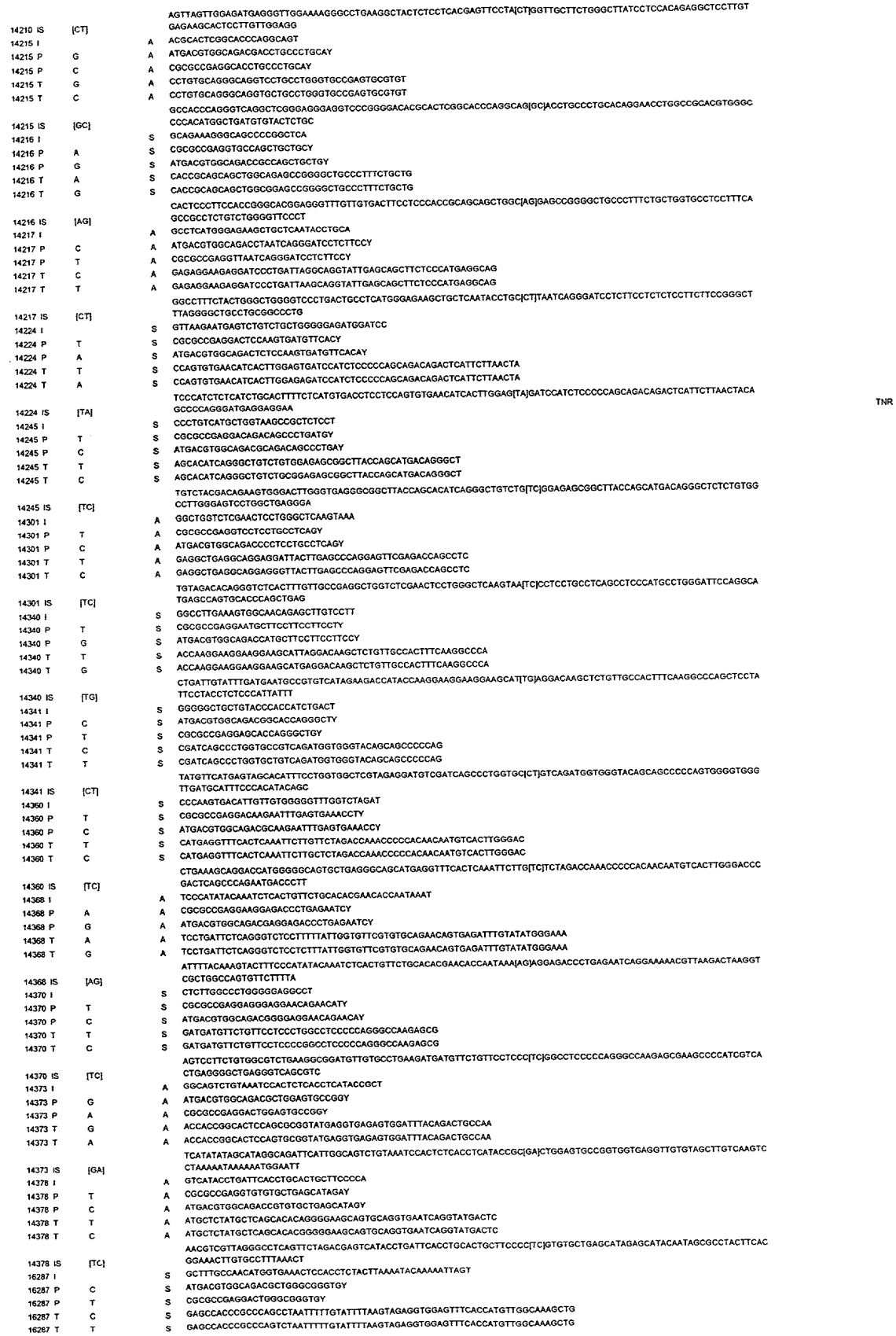
Exhibit 1002
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FIGURE 129E



FANCA

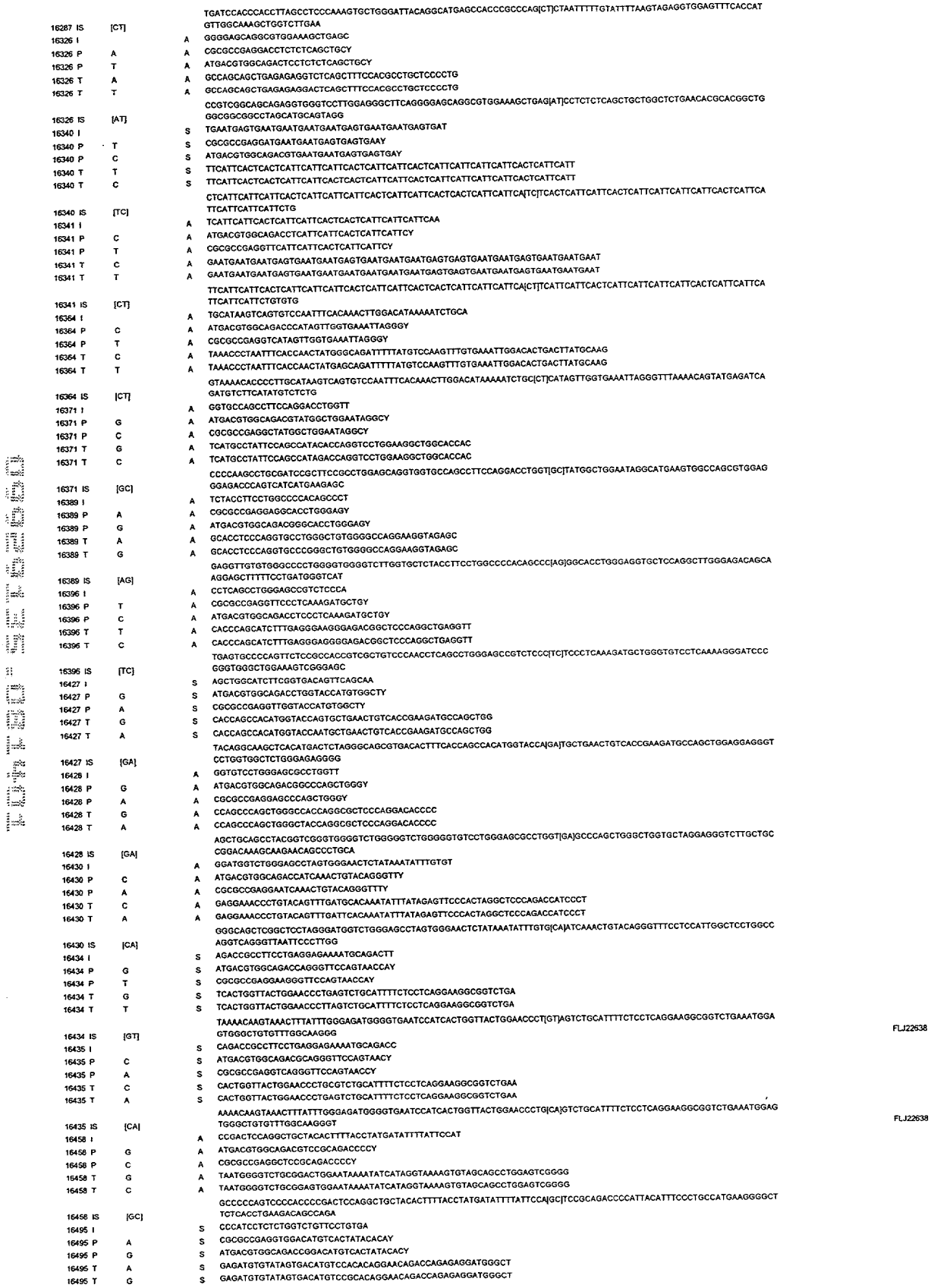
FIGURE 129E



TNR

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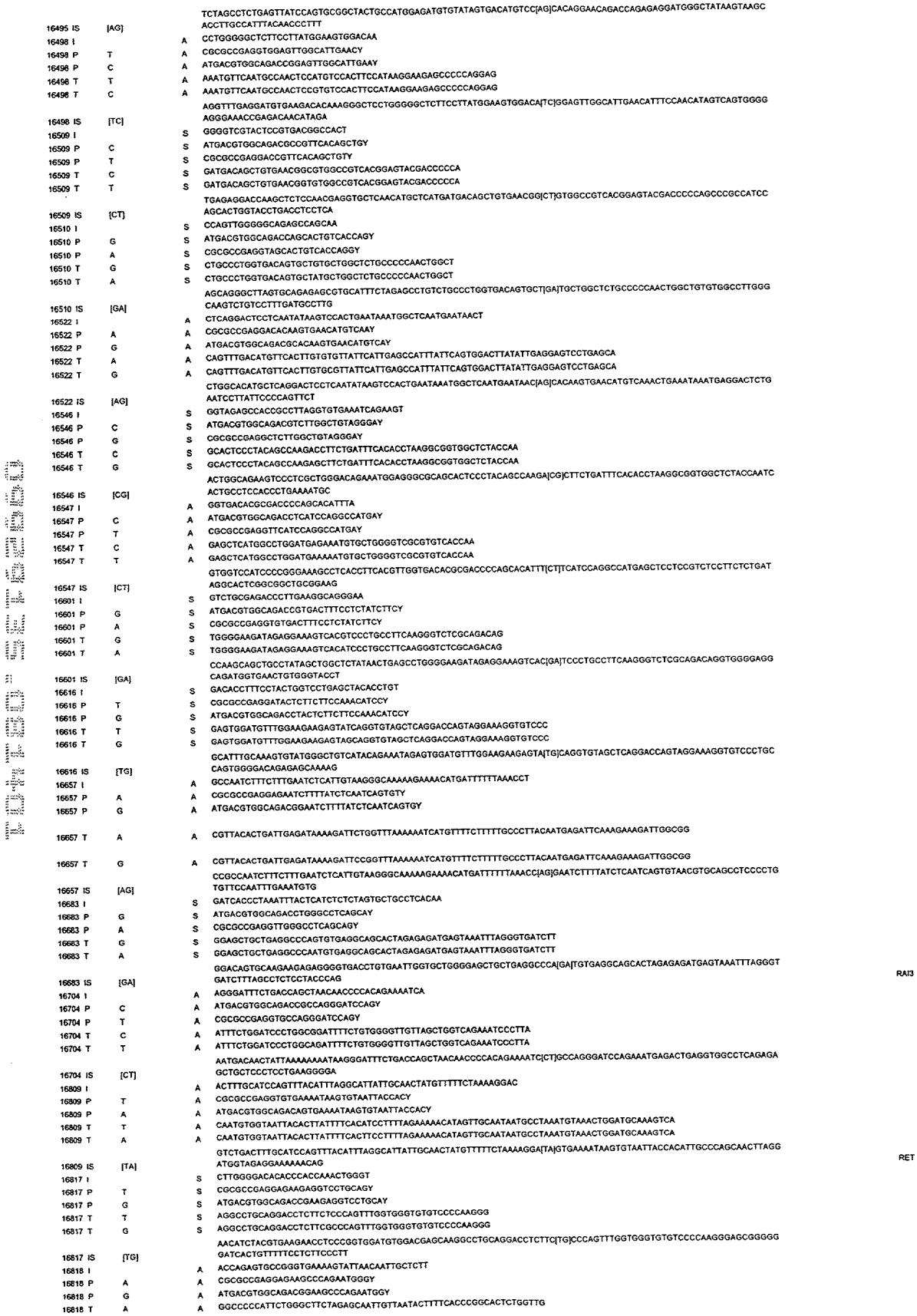
FIGURE 129E



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FLJ22638

FIGURE 129E



Confidential Treatment Requested Pursuant to 17 CFR 200.83

FIGURE 129E

16818 T	G	A	GGCCCCCATTCTGGGCTTCCAGAGCAATTGTTAATACTTTTCACCCGGCACTCTGGTTG
16818 IS	[AG]		GCAGGCAGAAAGGGAAATTACCAACCAGAGTGCCGGGTGAAAAGTATTAACAATTGCTCT[AG]GAAGCCCAGAATGGGGGCCATCCATTCTACATCAGAGA TTGGAAGGACAGTTACAAAAGA
16821 I		A	GAGGAAGAATCCAGAAATGTATGACCTTCCTCTGTTGAGAACTAATAGATT
16821 P	A	A	CGCGCCGAGGATGTTGGGTTCATCCTTCY
16821 P	G	A	ATGACGTGGCAGACGTGTTGGGTTCATCCTTCY
16821 T	A	A	TGTGGAAGGATGAACCCAACATATCTATTAGTTCTCAACAGAGGAAGGTCATACATTTCTGGATTCTTCCTCGT
16821 T	G	A	TGTGGAAGGATGAACCCAACACATCTATTAGTTCTCAACAGAGGAAGGTCATACATTTCTGGATTCTTCCTCGT
16821 IS	[AG]		CCCATACCACGAGGAAGAATCCAGAAATGTATGACCTTCCTCTGTTGAGAACTAATAGAT[AG]TGTTGGGTTCATCCTTCCACACCCATTACCTGAGCGTTGA GAGATATGGGAATCTGTAGT
16887 I		A	GCAGGCACCGGCTGTCAAGGGATCTCA
16887 P	C	A	ATGACGTGGCAGACCCTCCAGGTTTAGAGCAY
16887 P	T	A	CGCGCCGAGGTCTCCAGGTTTAGAGCATY
16887 T	C	A	GGCCATGCTCTAAACCTGGAGGGAGATCCCTTGACAGCCGGTGCCTGCCA
16887 T	T	A	GGCCATGCTCTAAACCTGGAGAGAGATCCCTTGACAGCCGGTGCCTGCCA
16887 IS	[CT]		GCTTATTACAAGACAGCTGGCTGGGGCAGATGTGGCAGGCACCGGCTGTCAAGGGATCTC[CT]CTCCAGGTTTAGAGCATGGCCCCCCTGACCCACCTAG GGCTTGGCTTGGCCTCCTCCTAC
16896 I		A	GTCTCTACAATAGACTTGAGGTACCTGAGAAGGAAAAGATAA
16896 P	T	A	CGCGCCGAGGTAAAACATGTAACAGACAAATTTAGAY
16896 P	C	A	ATGACGTGGCAGACCAAAACATGTAACAGACAAATTTAGY
16896 T	T	A	TGGTTCTAAATTTGTCTGTTACATGTTTTATATCTTTTCCTTCTCAGGTACCTCAAGTCTATTGTAGAGACAA
16896 T	C	A	TGGTTCTAAATTTGTCTGTTACATGTTTTGTATCTTTTCCTTCTCAGGTACCTCAAGTCTATTGTAGAGACAA
16896 IS	[TC]		ATGCTTATATATTAAAATTGTCTCTACAATAGACTTGAGGTACCTGAGAAGGAAAAGATA[TC]AAAACATGTAACAGACAAATTTAGAACCACCTGTTCCCATG TATCCCAGTCTAATTCTGT
16952 I		A	CGCTGGGGTCGGGGGCCCC
16952 P	T	A	CGCGCCGAGGTGGCCTTACTGAGTTGGY
16952 P	G	A	ATGACGTGGCAGACGGGCCTTACTGAGTTGY
16952 T	T	A	TGCCCCAACTCAGTAAGGCCAGGGCCCCCGACCCCAGCGGC
16952 T	G	A	TGCCCCAACTCAGTAAGGCCCGGGCCCCCGACCCCAGCGGC
16952 IS	[TG]		TGAGGGCATCGGCAAGAAAAAGAAGGTGGTGGCCGTGGCAGCCGCTGGGGTCGGGGGCCC[TG]GGCCTTACTGAGTTGGGGCACCCACGCAAACGGGG CCGGGGGGAGGTAGACGCTGTGACT
16996 I		A	GTCATTTTACTTTCCCTTCCCCCACGCTCCTT
16996 P	A	A	CGCGCCGAGGAGACCGTCGCAGCY
16996 P	G	A	ATGACGTGGCAGACGGACCGTCGCAGCY
16996 T	A	A	TTTGGCTGCGACGGTCTAGGAGCGTGGGGGAAGGGAAAGTAAAATGACCT
16996 T	G	A	TTTGGCTGCGACGGTCCAGGAGCGTGGGGGAAGGGAAAGTAAAATGACCT
16996 IS	[AG]		TCTAGGCTTCAAGGAAGGGACCTTGAAAGGTCATTTTACTTTCCCTTCCCCCACGCTCCT[AG]GACCGTCGCAGCCAAATGAGAAACGGCCCACATCTCACA GGTTCCTGCACAAAAGGATAT
16999 I		A	GCCCATTGCACAGAACAAGACTAATGTAAGCTCCACAAATAA
16999 P	T	A	CGCGCCGAGGTTGGTAGCATTCAAATGAACTY
16999 P	C	A	ATGACGTGGCAGACCTGGTAGCATTCAAATGAACY
16999 T	T	A	ATTCAGTTCATTTGAATGCTACCAATATTTGTGGAGCTTACATTAGTCTTGTTCTGTGCAATGGGCGC
16999 T	C	A	ATTCAGTTCATTTGAATGCTACCAGTATTTGTGGAGCTTACATTAGTCTTGTTCTGTGCAATGGGCGC
16999 IS	[TC]		ATGGCTGTGTCTGTTTTGCGCCCATTGCACAGAACAAGACTAATGTAAGCTCCACAAATA[TC]TGGTAGCATTCAAATGAACTGAATTTCTGGAAGAGTGGCT TCTCATTTAACATGTCACTT
17026 I		S	GCAGTCAGTAATAGAGCTCAAGCCTTCTTTCCCCCC
17026 P	A	S	CGCGCCGAGGTGATTTCTTGCATTGATTGGY
17026 P	C	S	ATGACGTGGCAGACGGATTTCTTGCATTGATTGGY
17026 T	A	S	AGCACCAATCAATGCAAGAAATCAGGGGGAAAGAAGGCTTGAGCTCTATTACTGACTGCAC
17026 T	C	S	AGCACCAATCAATGCAAGAAATCCGGGGGAAAGAAGGCTTGAGCTCTATTACTGACTGCAC
17026 IS	[AC]		TCCAGAAAACCATTACTTAAGTTACTAAAGTTTTACCAGCACCAATCAATGCAAGAAATC[AC]GGGGGAAAGAAGGCTTGAGCTCTATTACTGACTGCACCAA TGAATTCAGATTTTTACATG
17050 I		A	CCCAGGACTTCCTGCGCTGTGTCAGTT
17050 P	G	A	ATGACGTGGCAGACGCCATCATCATCTTCCTGY
17050 P	A	A	CGCGCCGAGGACCATCATCATCTTCCTGY
17050 T	G	A	CCACCAGGAAGATGATGATGGCACTGACACAGCGCAGGAAGTCCTGGGGG
17050 T	A	A	CCACCAGGAAGATGATGATGGTACTGACACAGCGCAGGAAGTCCTGGGGG
17050 IS	[GA]		CTTCTGAGGTCCTGTTAACCCTGCACCCCTGGCCCCCAGGACTTCCTGCGCTGTGTCAGT[GA]CCATCATCATCTTCCTGGTGGTCTCCTTTGCAGCTGTG ACCTCCCGGGACGGAGCTGCCA
17052 I		A	CTCGCAGTCCTCTAGAACAGCTTCAGATTATGGCTTTTTCC
17052 P	T	A	CGCGCCGAGGTTTTGAGGAAGAAATTATTCACTCY
17052 P	G	A	ATGACGTGGCAGACGTTTGAGGAAGAAATTATTCACTCY
17052 T	T	A	TCTGGAGTGAATAATTTCTTCCTCAAAAGAAAAAGCCATAATCTGAAGCTGTTCTAGAGGACTGCGAGTT
17052 T	G	A	TCTGGAGTGAATAATTTCTTCCTCAAACGAAAAAGCCATAATCTGAAGCTGTTCTAGAGGACTGCGAGTT
17052 IS	[TG]		TGAGGATGTTAACTTTGGAACTCGCAGTCCTCTAGAACAGCTTCAGATTATGGCTTTTTC[TG]TTTGAGGAAGAAATTATTCACTCCAGATGCATGCCCTGAG CCAGACCTCACTGCTGCACT
17078 I		A	CATCCGGGAATCTCCTCCCGTCAGAACTGT
17078 P	G	A	ATGACGTGGCAGACGGTTAGTGTCTCTGATGCY
17078 P	A	A	CGCGCCGAGGAGTTAGTGTCTCTGATGCGY
17078 T	G	A	ACTTCGCATCAGAGACACTAACCCAGTTCTGACGGGAGGAGATTCCCGGATGCC
17078 T	A	A	ACTTCGCATCAGAGACACTAACTCAGTTCTGACGGGAGGAGATTCCCGGATGCC
17078 IS	[GA]		GGTGCTGGTTCTGTGCCCAGGCACCTGCTGGCATCCGGGAATCTCCTCCCGTCAGAACTG[GA]GTTAGTGTCTCTGATGCGAAGTGGTGAGTCATCATAGT CGTCATCACAAATTTCCAGTCA
17090 I		A	CCTTTGTGGCTATCCAGGGACCAGTGAAAACAAA
17090 P	T	A	CGCGCCGAGGTGCATGTGTCTTCCCTY
17090 P	C	A	ATGACGTGGCAGACCGCATGTGTCTTCCCY
17090 T	T	A	TGCTAGGGAAGACACATGCATTGTTTTCACTGGTCCCTGGATAGCCACAAAGGCA
17090 T	C	A	TGCTAGGGAAGACACATGCGTTGTTTTCACTGGTCCCTGGATAGCCACAAAGGCA
17090 IS	[TC]		GGACCTCAACATTGAAATATGCTTTTGCCTTTGTGGCTATCCAGGGACCAGTGAAAACAA[TC]GCATGTGTCTTCCCTAGCATTGGGTCAAATTCAGCTGTT GCTTCTCACGCACCGGACAGG
17104 I		A	GCTGGGCTGGGAGTGGTGGCTCAA
17104 P	T	A	CGCGCCGAGGTGCCTGTCATCCCAGY
17104 P	C	A	ATGACGTGGCAGACCGCCTGTCATCCCAY
17104 T	T	A	AGTGCTGGGATGACAGGCATGAGCCACCACTCCCAGCCCAGCCT
17104 T	C	A	AGTGCTGGGATGACAGGCGTGAGCCACCACTCCCAGCCCAGCCT
17104 IS	[TC]		GTGAAAACAGCCTAGCACAGTGGTTAAGATCTGGGAGGCTGGGCTGGGAGTGGTGGCTCA[TC]GCCTGTCATCCCAGCACTTTGGGAAGCCGAGGCAGGC AGATCATCTGAGGTCAGGAGTTC
17117 I		A	CCCAACGTACAAGGAATACCTCAATATTTCCTGTGCTCCT
17117 P	A	A	CGCGCCGAGGACCAAAATTTAAAACCAACAAAATY
17117 P	C	A	ATGACGTGGCAGACCCCAAAATTTAAAACCAACAAAAY
17117 T	A	A	TTGCATTTTGTTGGTTTTAAATTTTGGTGGAGCACAGGAAATATTGAGGTATTCCTTGTACGTTGGGAA
17117 T	C	A	TTGCATTTTGTTGGTTTTAAATTTTGGGGGAGCACAGGAAATATTGAGGTATTCCTTGTACGTTGGGAA
17117 IS	[AC]		TATCTACCTACTTAAATCGTTCCCAACGTACAAGGAATACCTCAATATTTCCTGTGCTCC[AC]CCAAAATTTAAAACCAACAAAATGCAAAACTTTTCAGGCAT TATTATAAAGTTTTAGAAA
17120 I		A	GGTCACCTGGGGCGGCTGTGATTAACTCT
17120 P	G	A	ATGACGTGGCAGACGACCAGCAGGCTGGY
17120 P	C	A	CGCGCCGAGGCACCAGCAGGCTGGY
17120 T	G	A	GGGGCCAGCCTGCTGGTCGAGTTAATCACAGCCGCCCCAGGTGACCAG
17120 T	C	A	GGGGCCAGCCTGCTGGTGGAGTTAATCACAGCCGCCCCAGGTGACCAG

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FIGURE 129E

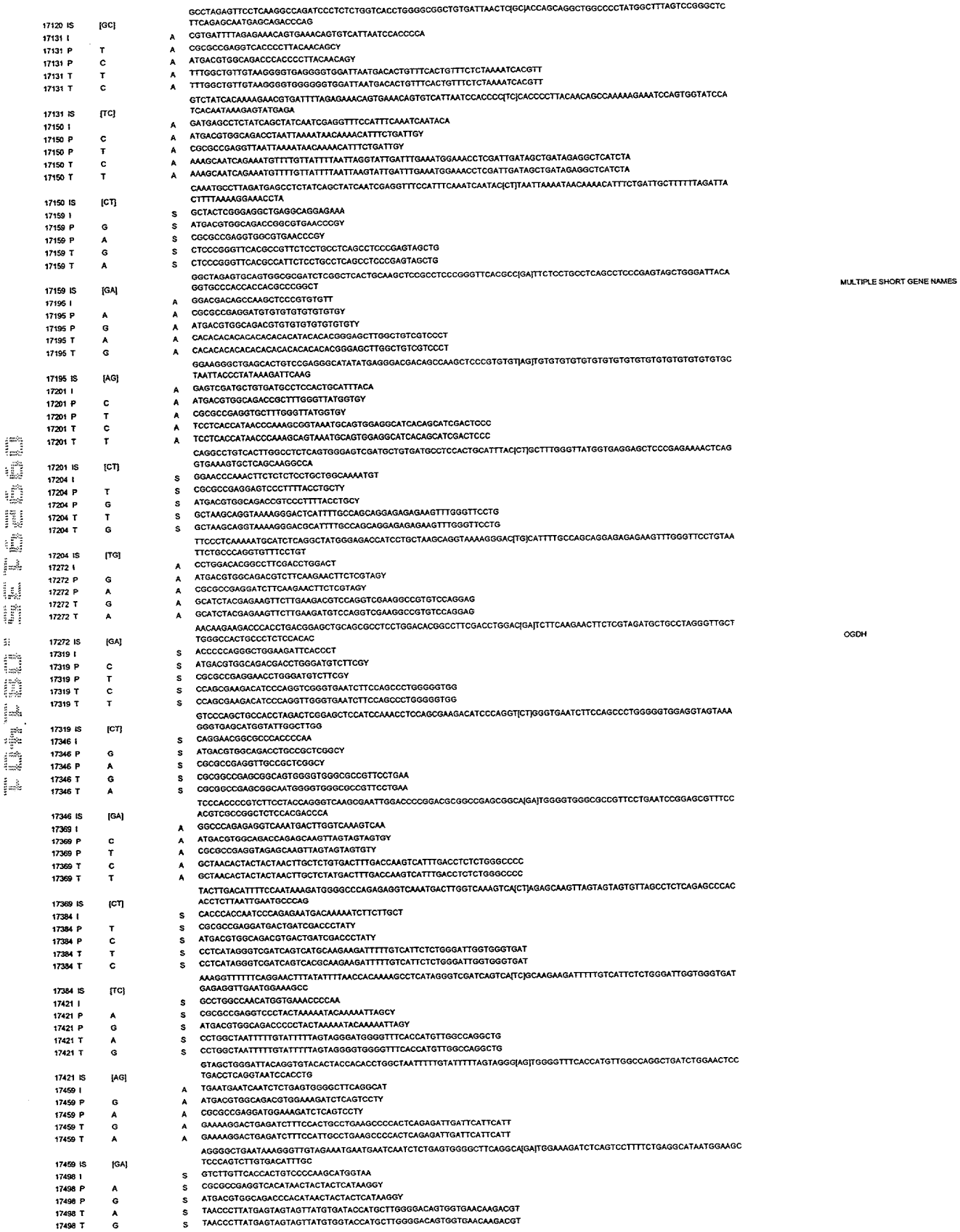
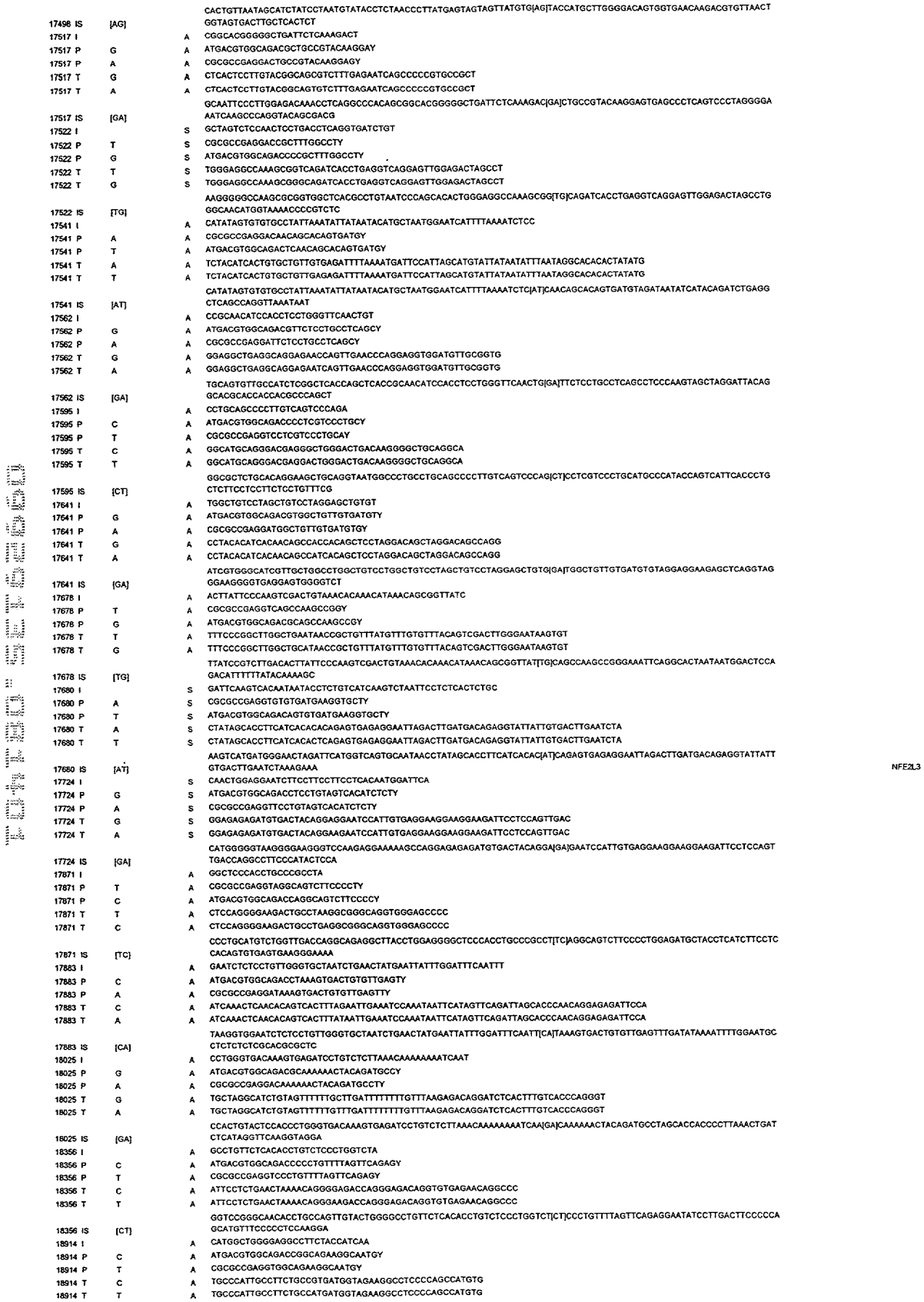


FIGURE 129E



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FIGURE 129E

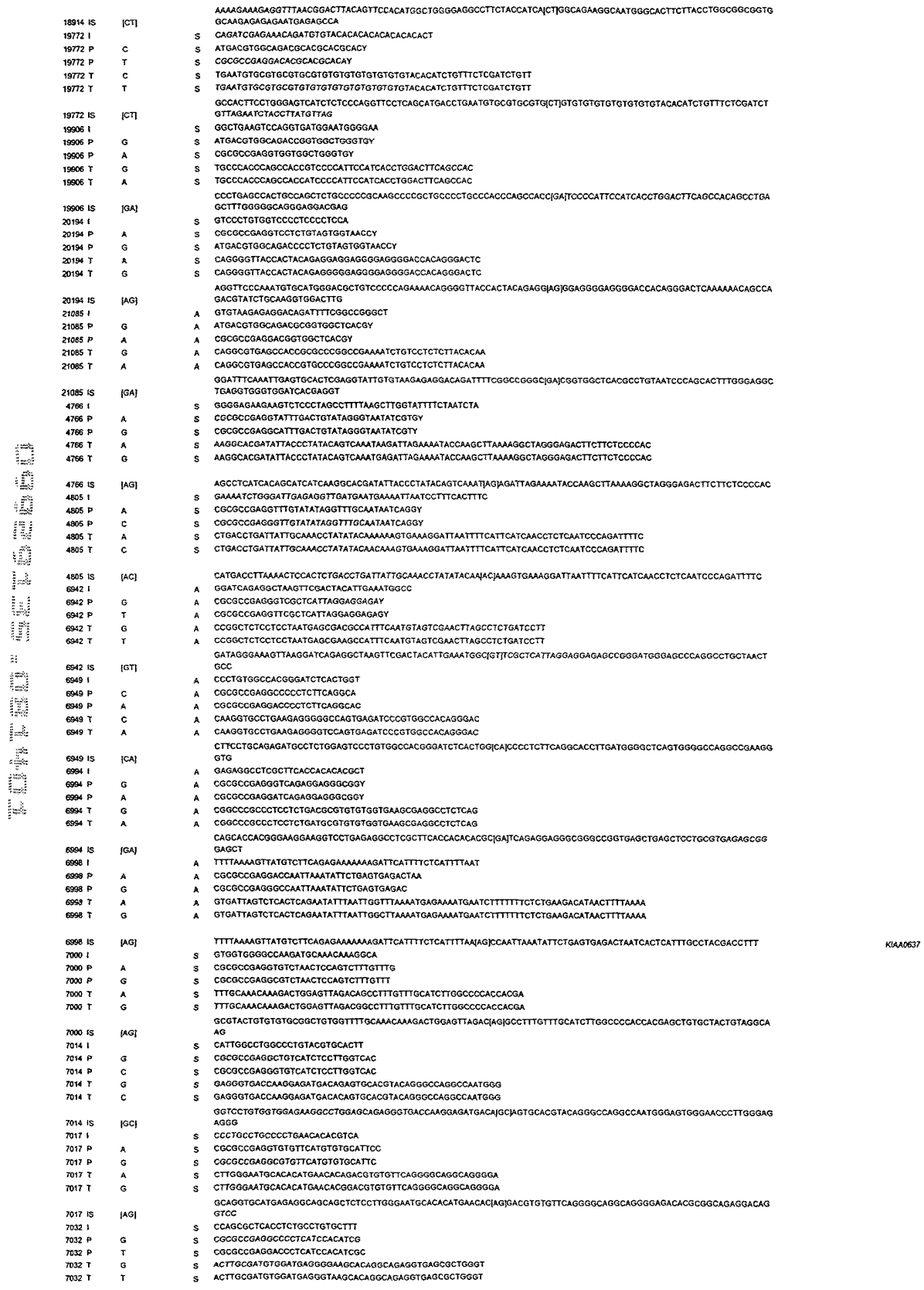
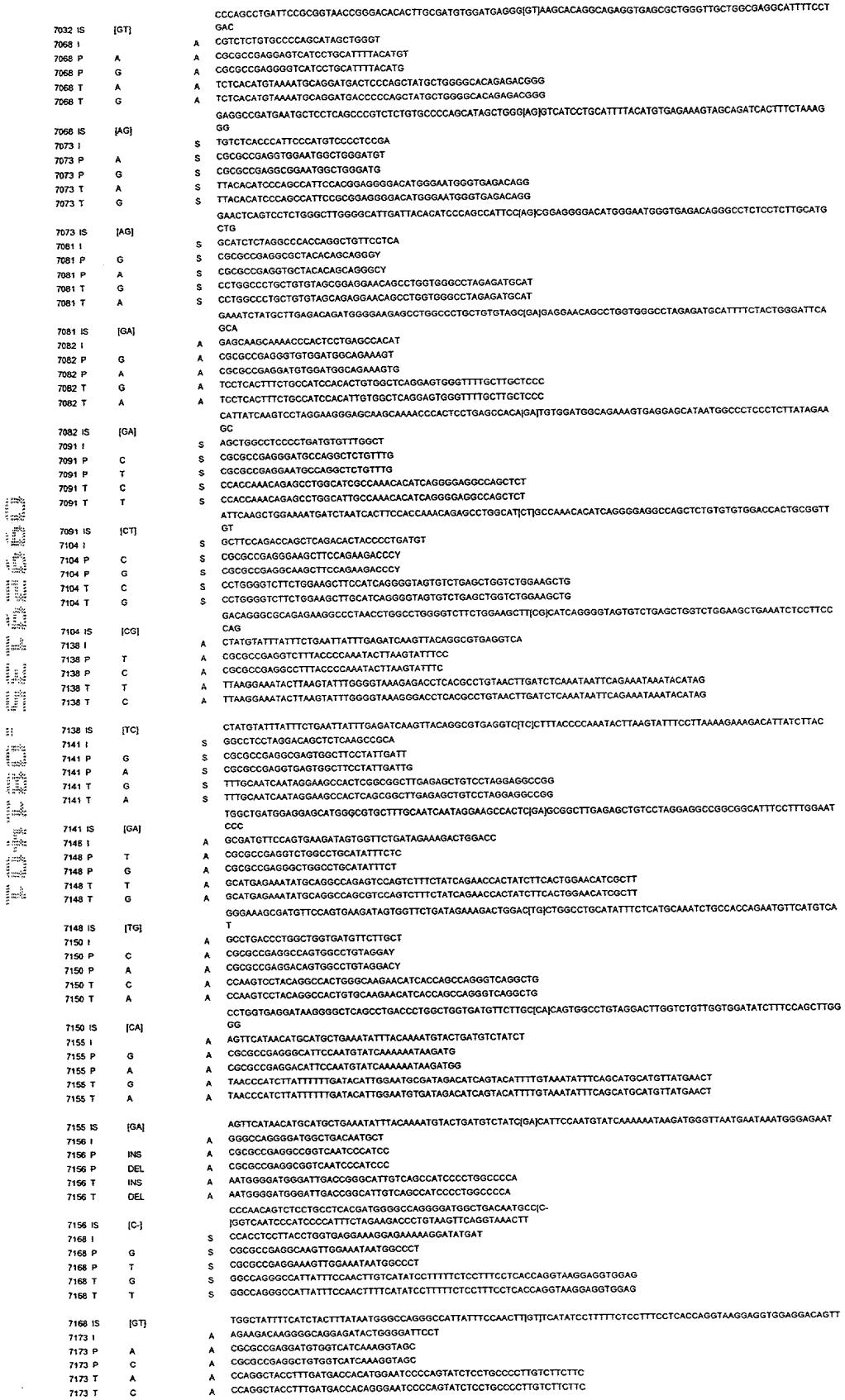
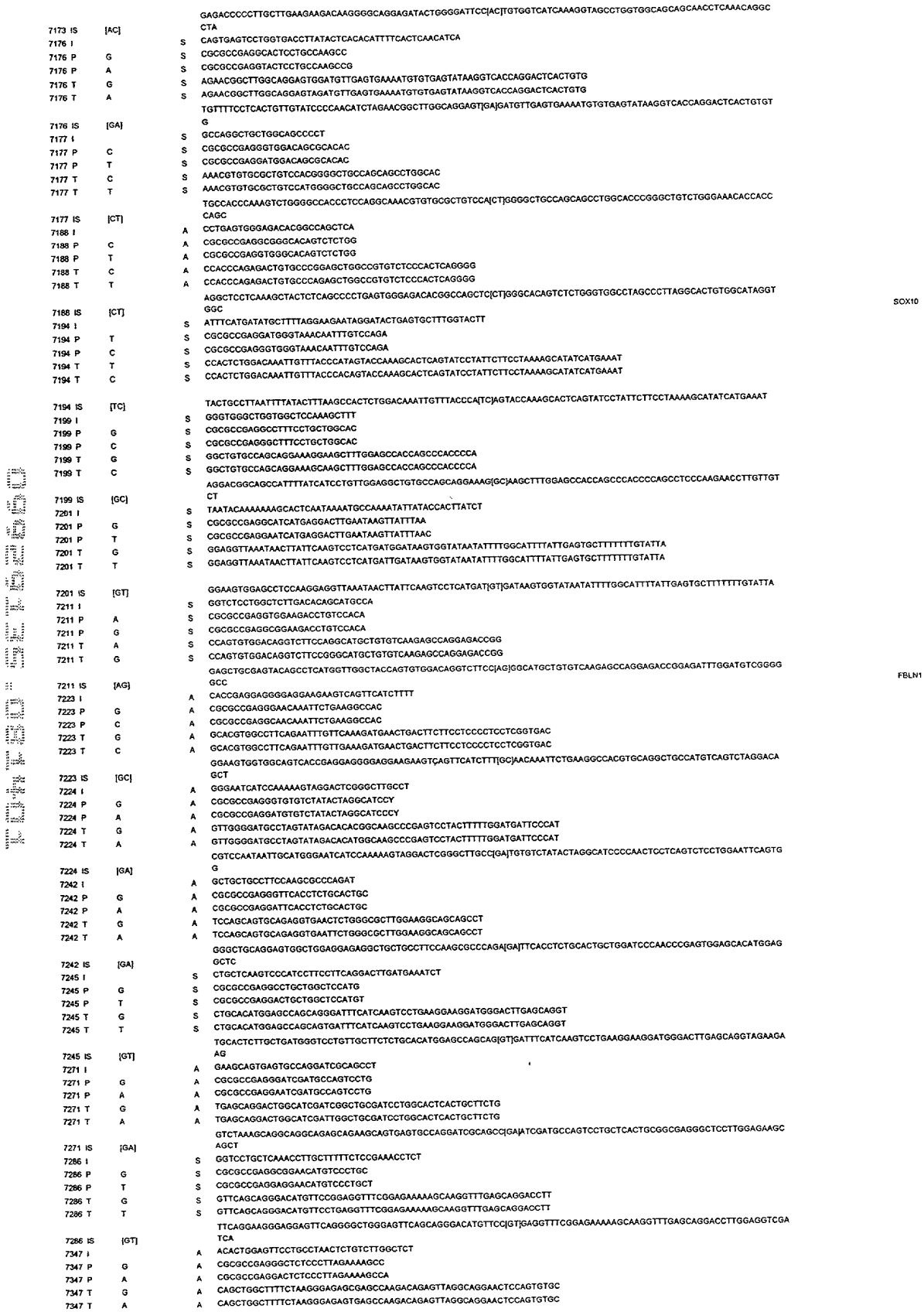

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19772 I S CAGATCGAGAAACAGATGTGTACACACACACACACACT
19772 P C S ATGACGTGGCAGACGCACGCACGCACY
19772 P T S CGCGCCGAGGACACGCACGCACAY
19772 T C S TGAATGTGCGTGCGTGCGTGTGTGTGTGTGTGTGTACACATCTGTTTCTCGATCTGTT
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19772 IS [CT] GTTAGAATCTACCTTATGTTAG
19906 I S GGCTGAAGTCCAGGTGATGGAATGGGGAA
19906 P G S ATGACGTGGCAGACCGGTGGCTGGGTGY
19906 P A S CGCGCCGAGGTGGTGGCTGGGTGY
19906 T G S TGCCCACCCAGCCACCGTCCCCATTCCATCACCTGGACTTCAGCCAC
19906 T A S TGCCCACCCAGCCACCATCCCCATTCCATCACCTGGACTTCAGCCAC
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20194 I S GTCCCTGTGGTCCCCTCCCCTCCA
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20194 T G S CAGGGGTTACCACTACAGAGGGGGAGGGGAGGGGACCACAGGGACTC
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20194 IS [AG] GACGTATCTGCAAGGTGGACTTG
21085 I A GTGTAAGAGAGGACAGATTTTCGGCCGGGCT
21085 P G A ATGACGTGGCAGACGCGGTGGCTCACGY
21085 P A A CGCGCCGAGGACGGTGGCTCACGY
21085 T G A CAGGCGTGAGCCACCGCGCCCGGCCGAAAATCTGTCCTCTCTTACACAA
21085 T A A CAGGCGTGAGCCACCGTGCCCGGCCGAAAATCTGTCCTCTCTTACACAA
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21085 IS [GA] TGAGGTGGGTGGATCACGAGGT
4766 I S GGGGAGAAGAAGTCTCCCTAGCCTTTTAAGCTTGGTATTTTCTAATCTA
4766 P A S CGCGCCGAGGTATTTGACTGTATAGGGTAATATCGTGY
4766 P G S CGCGCCGAGGCATTTGACTGTATAGGGTAATATCGTY
4766 T A S AAGGCACGATATTACCCTATACAGTCAAATAAGATTAGAAAATACCAAGCTTAAAAGGCTAGGGAGACTTCTTCTCCCCAC
4766 T G S AAGGCACGATATTACCCTATACAGTCAAATGAGATTAGAAAATACCAAGCTTAAAAGGCTAGGGAGACTTCTTCTCCCCAC
4766 IS [AG] AGCCTCATCACAGCATCATCAAGGCACGATATTACCCTATACAGTCAAAT[AG]AGATTAGAAAATACCAAGCTTAAAAGGCTAGGGAGACTTCTTCTCCCCAC
4805 I S GAAAATCTGGGATTGAGAGGTTGATGAATGAAAATTAATCCTTTCACTTTC
4805 P A S CGCGCCGAGGTTTGTATATAGGTTTGCAATAATCAGGY
4805 P C S CGCGCCGAGGGTTGTATATAGGTTTGCAATAATCAGGY
4805 T A S CTGACCTGATTATTGCAAACCTATATACAAAAAAGTGAAAGGATTAATTTTCATTCATCAACCTCTCAATCCCAGATTTTC
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4805 IS [AC] GGATCAGAGGCTAAGTTCGACTACATTGAAATGGCC
6942 I A CGCGCCGAGGGTCGCTCATTAGGAGGAGAY
6942 P G A CGCGCCGAGGTTCGCTCATTAGGAGGAGAY
6942 P T A CCGGCTCTCCTCCTAATGAGCGACGCCATTTCAATGTAGTCGAACTTAGCCTCTGATCCTT
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6942 T T A GATAGGGAAAGTTAAGGATCAGAGGCTAAGTTCGACTACATTGAAATGGC[GT]TCGCTCATTAGGAGGAGAGCCGGGATGGGAGCCCAGGCCTGCTAACT
6942 IS [GT] GCC
6949 I A CCCTGTGGCCACGGGATCTCACTGGT
6949 P C A CGCGCCGAGGCCCCCTCTTCAGGCA
6949 P A A CGCGCCGAGGACCCCTCTTCAGGCAC
6949 T C A CAAGGTGCCTGAAGAGGGGGCCAGTGAGATCCCGTGGCCACAGGGAC
6949 T A A CAAGGTGCCTGAAGAGGGGTCCAGTGAGATCCCGTGGCCACAGGGAC
CTTCCTGCAGAGATGCCTCTGGAGTCCCTGTGGCCACGGGATCTCACTGG[CA]CCCCTCTTCAGGCACCTTGATGGGGCTCAGTGGGGCCAGGCCGAAGG
6949 IS [CA] GTG
6994 I A GAGAGGCCTCGCTTCACCACACACGCT
6994 P G A CGCGCCGAGGGTCAGAGGAGGGCGGY
6994 P A A CGCGCCGAGGATCAGAGGAGGGCGGY
6994 T G A CGGCCCGCCCTCCTCTGACGCGTGTGTGGTGAAGCGAGGCCTCTCAG
6994 T A A CGGCCCGCCCTCCTCTGATGCGTGTGTGGTGAAGCGAGGCCTCTCAG
CAGCACCACGGGAAGGAAGGTCCTGAGAGGCCTCGCTTCACCACACACGC[GA]TCAGAGGAGGGCGGGCCGGTGAGCTGAGCTCCTGCGTGAGAGCGG
6994 IS [GA] GAGCT
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6998 P A A CGCGCCGAGGACCAATTAAATATTCTGAGTGAGACTAA
6998 P G A CGCGCCGAGGGCCAATTAAATATTCTGAGTGAGAC
6998 T A A GTGATTAGTCTCACTCAGAATATTTAATTGGTTTAAAATGAGAAAATGAATCTTTTTTTCTCTGAAGACATAACTTTTAAAA
6998 T G A GTGATTAGTCTCACTCAGAATATTTAATTGGCTTAAAATGAGAAAATGAATCTTTTTTTCTCTGAAGACATAACTTTTAAAA
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7000 I S GTGGTGGGGCCAAGATGCAAACAAAGGCA
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7000 T G S TTTGCAAACAAAGACTGGAGTTAGACGGCCTTTGTTTGCATCTTGGCCCCACCACGA
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7000 IS [AG] AG
7014 I S CATTGGCCTGGCCCTGTACGTGCACTT
7014 P G S CGCGCCGAGGCTGTCATCTCCTTGGTCAC
7014 P C S CGCGCCGAGGGTGTCATCTCCTTGGTCAC
7014 T G S GAGGGTGACCAAGGAGATGACAGAGTGCACGTACAGGGCCAGGCCAATGGG
7014 T C S GAGGGTGACCAAGGAGATGACACAGTGCACGTACAGGGCCAGGCCAATGGG
GGTCCTGTGGTGGAGAAGGCCTGGAGCAGAGGGTGACCAAGGAGATGACA[GC]AGTGCACGTACAGGGCCAGGCCAATGGGAGTGGGAACCCTTGGGAG
7014 IS [GC] AGGG
7017 I S CCCTGCCTGCCCCTGAACACACGTCA
7017 P A S CGCGCCGAGGTGTGTTCATGTGTGCATTCC
7017 P G S CGCGCCGAGGCGTGTTCATGTGTGCATTC
7017 T A S CTTGGGAATGCACACATGAACACAGACGTGTGTTCAGGGGCAGGCAGGGGA
7017 T G S CTTGGGAATGCACACATGAACACGGACGTGTGTTCAGGGGCAGGCAGGGGA
GCAGGTGCATGAGAGGCAGCAGCTCTCCTTGGGAATGCACACATGAACAC[AG]GACGTGTGTTCAGGGGCAGGCAGGGGAGACACGCGGCAGAGGACAG
7017 IS [AG] GTCC
7032 I S CCAGCGCTCACCTCTGCCTGTGCTTT
7032 P G S CGCGCCGAGGCCCCTCATCCACATCG
7032 P T S CGCGCCGAGGACCCTCATCCACATCGC
7032 T G S ACTTGCGATGTGGATGAGGGGAAGCACAGGCAGAGGTGAGCGCTGGGT
7032 T T S ACTTGCGATGTGGATGAGGGTAAGCACAGGCAGAGGTGAGCGCTGGGT

FIGURE 129E



Filed: June 30, 2006

FIGURE 129E



Inventor Docket No. 2005P10180US

FIGURE 129E

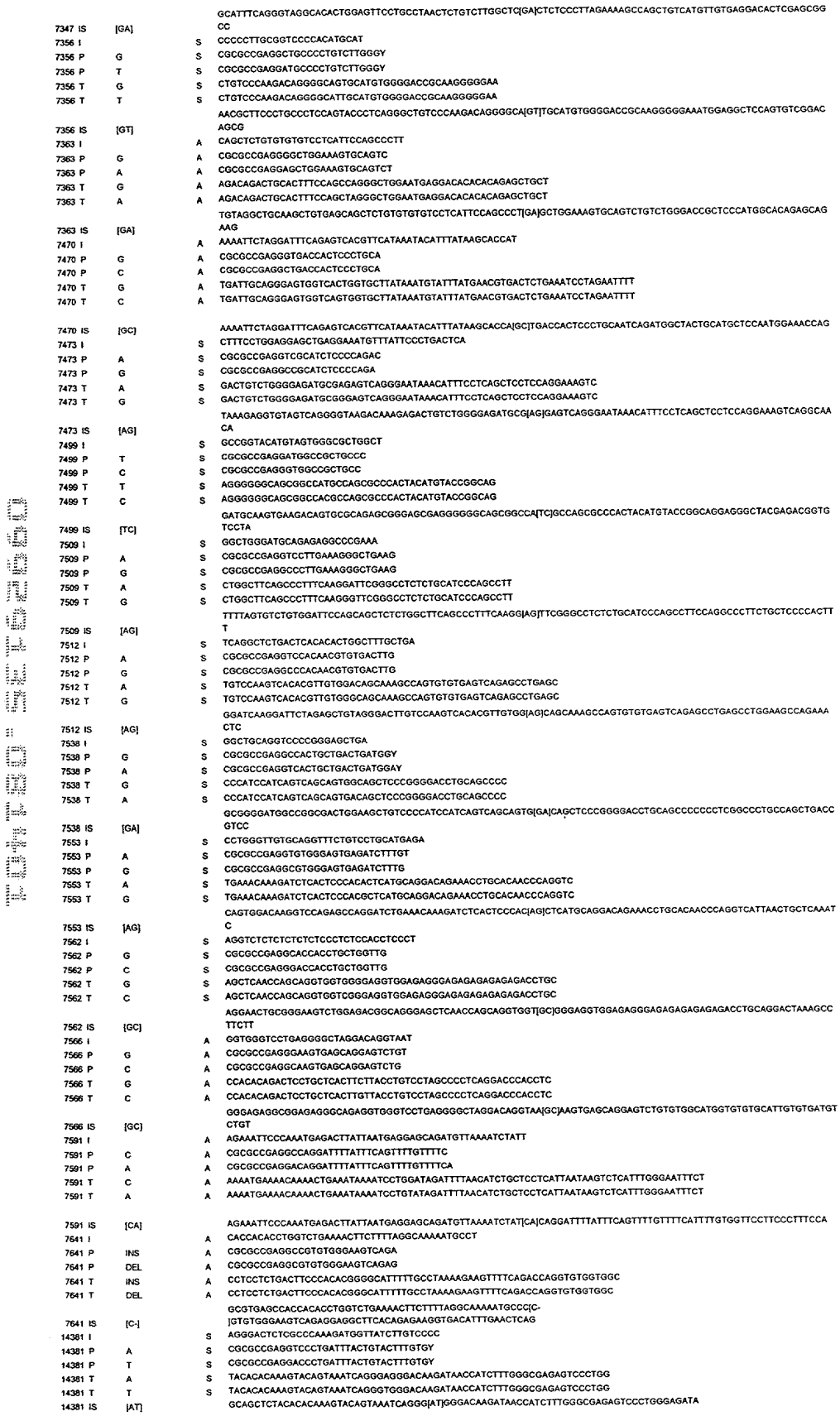

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7356 P G S CGCGCCGAGGCTGCCCCTGTCTTGGGY
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7356 T T S CTGTCCCAAGACAGGGGCATTGCATGTGGGGACCGCAAGGGGGAA
AACGCTTCCCTGCCCTCCAGTACCCTCAGGGCTGTCCCAAGACAGGGGCA[GT]TGCATGTGGGGACCGCAAGGGGGAAATGGAGGCTCCAGTGTCGGAC
7356 IS [GT] AGCG
7363 I A CAGCTCTGTGTGTGTCCTCATTCCAGCCCTT
7363 P G A CGCGCCGAGGGGCTGGAAAGTGCAGTC
7363 P A A CGCGCCGAGGAGCTGGAAAGTGCAGTCT
7363 T G A AGACAGACTGCACTTTCCAGCCAGGGCTGGAATGAGGACACACACAGAGCTGCT
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7363 IS [GA] AAG
7470 I A AAAATTCTAGGATTTCAGAGTCACGTTCATAAATACATTTATAAGCACCAT
7470 P G A CGCGCCGAGGGTGACCACTCCCTGCA
7470 P C A CGCGCCGAGGCTGACCACTCCCTGCA
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7470 IS [GC] AAAATTCTAGGATTTCAGAGTCACGTTCATAAATACATTTATAAGCACCA[GC]TGACCACTCCCTGCAATCAGATGGCTACTGCATGCTCCAATGGAAACCAG
7473 I S CTTTCCTGGAGGAGCTGAGGAAATGTTTATTCCCTGACTCA
7473 P A S CGCGCCGAGGTCGCATCTCCCCAGAC
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7473 T A S GACTGTCTGGGGAGATGCGAGAGTCAGGGAATAAACATTTCCTCAGCTCCTCCAGGAAAGTC
7473 T G S GACTGTCTGGGGAGATGCGGGAGTCAGGGAATAAACATTTCCTCAGCTCCTCCAGGAAAGTC
TAAAGAGGTGTAGTCAGGGGTAAGACAAAGAGACTGTCTGGGGAGATGCG[AG]GAGTCAGGGAATAAACATTTCCTCAGCTCCTCCAGGAAAGTCAGGCAA
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7499 I S GCCGGTACATGTAGTGGGCGCTGGCT
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7499 T T S AGGGGGGCAGCGGCCATGCCAGCGCCCCACTACATGTACCGGCAG
7499 T C S AGGGGGGCAGCGGCCACGCCAGCGCCCACTACATGTACCGGCAG
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7499 IS [TC] TCCTA
7509 I S GGCTGGGATGCAGAGAGGCCCGAAA
7509 P A S CGCGCCGAGGTCCTTGAAAGGGCTGAAG
7509 P G S CGCGCCGAGGCCCTTGAAAGGGCTGAAG
7509 T A S CTGGCTTCAGCCCTTTCAAGGATTCGGGCCTCTCTGCATCCCAGCCTT
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7512 I S TCAGGCTCTGACTCACACACTGGCTTTGCTGA
7512 P A S CGCGCCGAGGTCCACAACGTGTGACTTG
7512 P G S CGCGCCGAGGCCCACAACGTGTGACTTG
7512 T A S TGTCCAAGTCACACGTTGTGGACAGCAAAGCCAGTGTGTGAGTCAGAGCCTGAGC
7512 T G S TGTCCAAGTCACACGTTGTGGGCAGCAAAGCCAGTGTGTGAGTCAGAGCCTGAGC
GGATCAAGGATTCTAGAGCTGTAGGGACTTGTCCAAGTCACACGTTGTGG[AG]CAGCAAAGCCAGTGTGTGAGTCAGAGCCTGAGCCTGGAAGCCAGAAA
7512 IS [AG] CTC
7538 I S GGCTGCAGGTCCCCGGGAGCTGA
7538 P G S CGCGCCGAGGCCACTGCTGACTGATGGY
7538 P A S CGCGCCGAGGTCACTGCTGACTGATGGAY
7538 T G S CCCATCCATCAGTCAGCAGTGGCAGCTCCCGGGGACCTGCAGCCCC
7538 T A S CCCATCCATCAGTCAGCAGTGACAGCTCCCGGGGACCTGCAGCCCC
GCGGGGATGGCCGGCGACTGGAAGCTGTCCCCATCCATCAGTCAGCAGTG[GA]CAGCTCCCGGGGACCTGCAGCCCCCCCTCGGCCCTGCCAGCTGACC
7538 IS [GA] GTCC
7553 I S CCTGGGTTGTGCAGGTTTCTGTCCTGCATGAGA
7553 P A S CGCGCCGAGGTGTGGGAGTGAGATCTTTGT
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7553 IS [AG] C
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7562 P G S CGCGCCGAGGCACCACCTGCTGGTTG
7562 P C S CGCGCCGAGGGACCACCTGCTGGTTG
7562 T G S AGCTCAACCAGCAGGTGGTGGGGAGGTGGAGAGGGAGAGAGAGAGACCTGC
7562 T C S AGCTCAACCAGCAGGTGGTCGGGAGGTGGAGAGGGAGAGAGAGAGACCTGC
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7562 IS [GC] TTCTT
7566 I A GGTGGGTCCTGAGGGGCTAGGACAGGTAAT
7566 P G A CGCGCCGAGGGAAGTGAGCAGGAGTCTGT
7566 P C A CGCGCCGAGGCAAGTGAGCAGGAGTCTG
7566 T G A CCACACAGACTCCTGCTCACTTCTTACCTGTCCTAGCCCCTCAGGACCCACCTC
7566 T C A CCACACAGACTCCTGCTCACTTGTTACCTGTCCTAGCCCCTCAGGACCCACCTC
GGGAGAGGCGGAGAGGGCAGAGGTGGGTCCTGAGGGGCTAGGACAGGTAA[GC]AAGTGAGCAGGAGTCTGTGTGGCATGGTGTGTGCATTGTGTGATGT
7566 IS [GC] CTGT
7591 I A AGAAATTCCCAAATGAGACTTATTAATGAGGAGCAGATGTTAAAATCTATT
7591 P C A CGCGCCGAGGCCAGGATTTTATTTCAGTTTTGTTTTC
7591 P A A CGCGCCGAGGACAGGATTTTATTTCAGTTTTGTTTTCA
7591 T C A AAAATGAAAACAAAACTGAAATAAAATCCTGGATAGATTTTAACATCTGCTCCTCATTAATAAGTCTCATTTGGGAATTTCT
7591 T A A AAAATGAAAACAAAACTGAAATAAAATCCTGTATAGATTTTAACATCTGCTCCTCATTAATAAGTCTCATTTGGGAATTTCT
7591 IS [CA] AGAAATTCCCAAATGAGACTTATTAATGAGGAGCAGATGTTAAAATCTAT[CA]CAGGATTTTATTTCAGTTTTGTTTTCATTTTGTGGTTCCTTCCCTTTCCA
7641 I A CACCACACCTGGTCTGAAAACTTCTTTTAGGCAAAAATGCCT
7641 P INS A CGCGCCGAGGCCGTGTGGGAAGTCAGA
7641 P DEL A CGCGCCGAGGCGTGTGGGAAGTCAGAG
7641 T INS A CCTCCTCTGACTTCCCCACACGGGGCATTTTTGCCTAAAAGAAGTTTTCAGACCAGGTGTGGTGGC
7641 T DEL A CCTCCTCTGACTTCCCCACACGGGCATTTTTGCCTAAAAGAAGTTTTCAGACCAGGTGTGGTGGC
GCGTGAGCCACCACACCTGGTCTGAAAACTTCTTTTAGGCAAAAATGCCC[C-
7641 IS [C-]]GTGTGGGAAGTCAGAGGAGGCTTCACAGAGAAGGTGACATTTGAACTCAG
14381 I S AGGGACTCTCGCCCAAAGATGGTTATCTTGTCCCC
14381 P A S CGCGCCGAGGTCCCTGATTTACTGTACTTTGTGY
14381 P T S CGCGCCGAGGACCCTGATTTACTGTACTTTGTGY
14381 T A S TACACACAAAGTACAGTAAATCAGGGAGGGACAAGATAACCATCTTTGGGCGAGAGTCCCTGG
14381 T T S TACACACAAAGTACAGTAAATCAGGGTGGGACAAGATAACCATCTTTGGGCGAGAGTCCCTGG
14381 IS [AT] GCAGCTCTACACACAAAGTACAGTAAATCAGGG[AT]GGGACAAGATAACCATCTTTGGGCGAGAGTCCCTGGGAGATA

FIGURE 129E



Confidential and Proprietary Information of Applera Corporation

FIGURE 129E

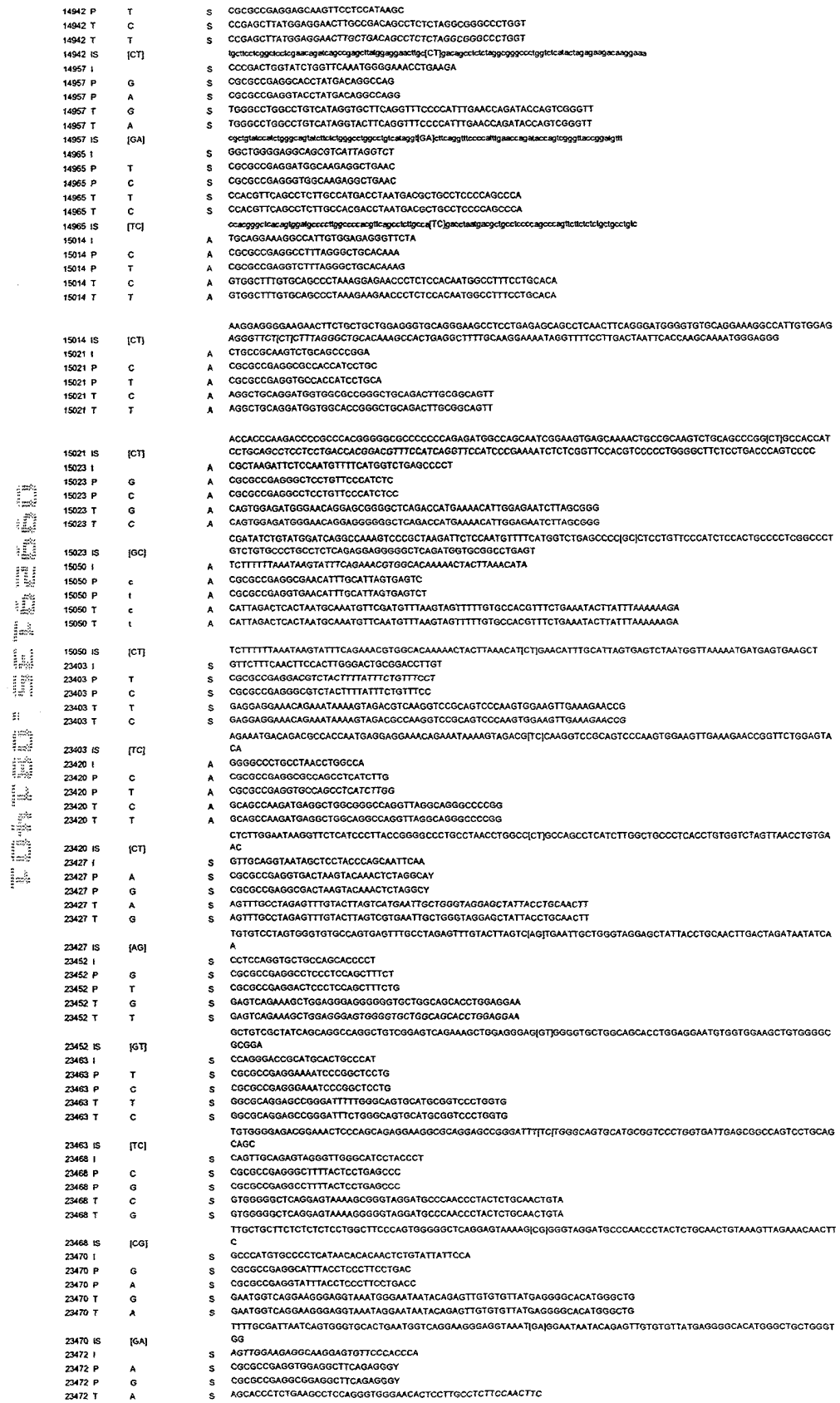
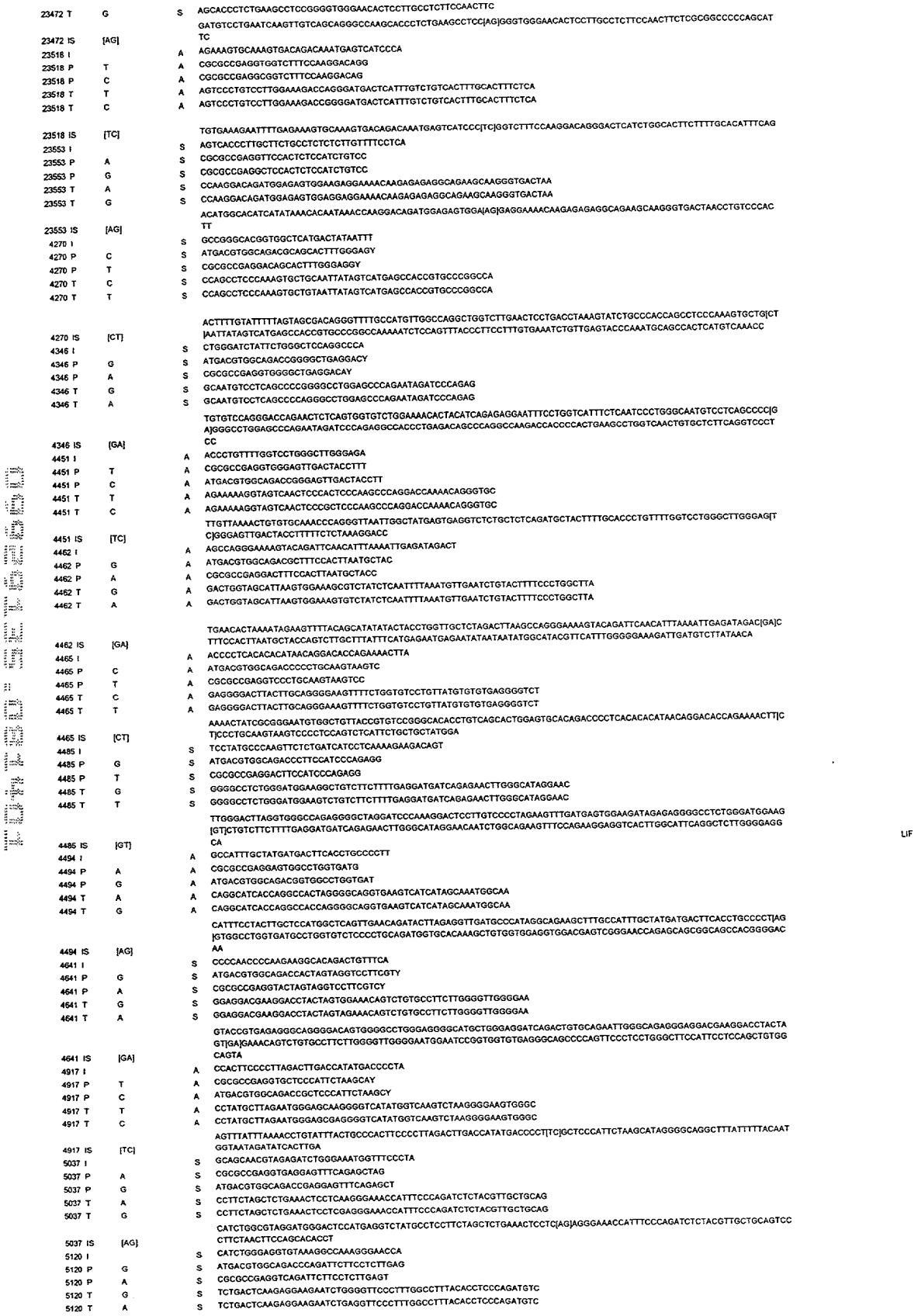
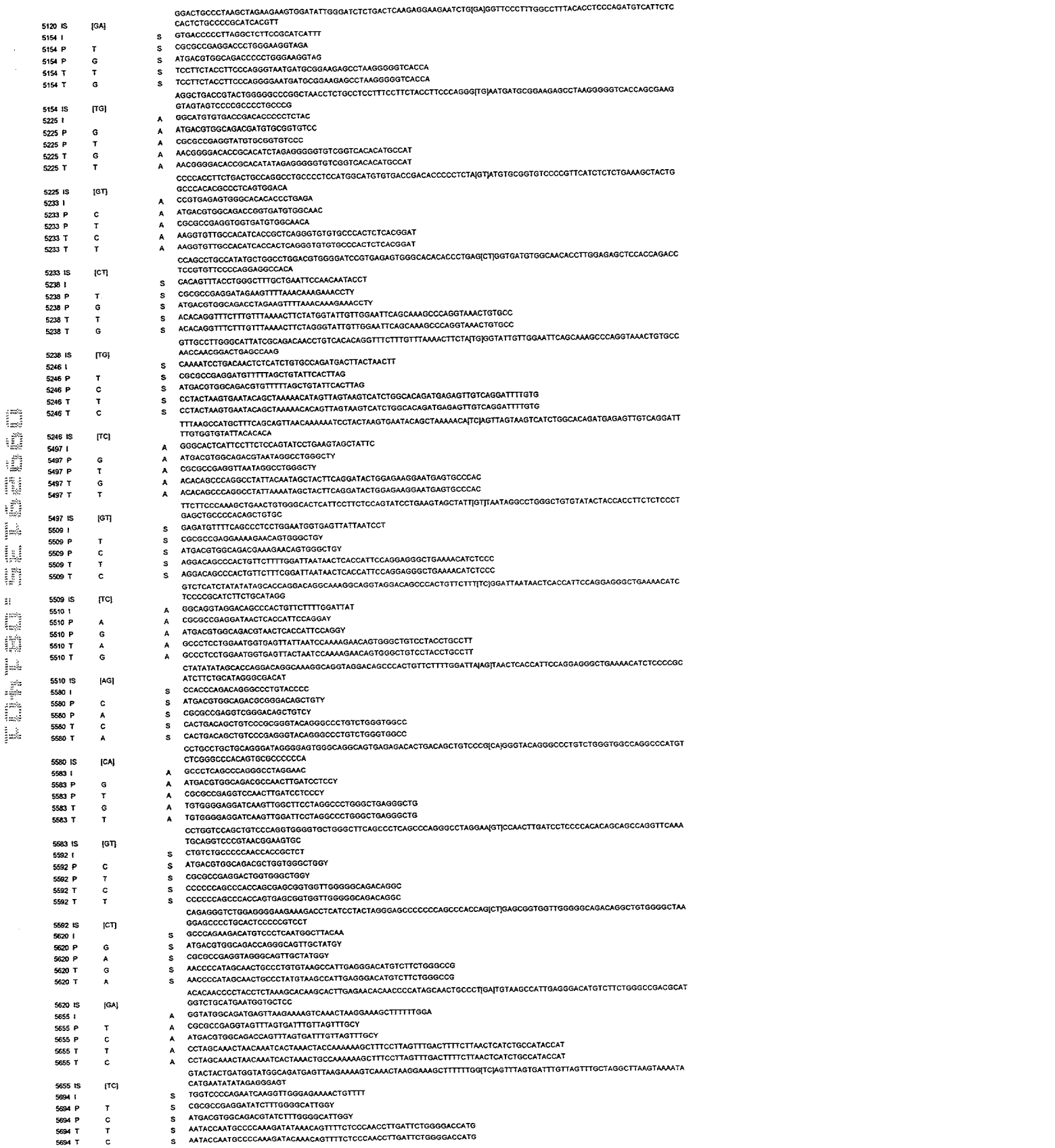

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14942 IS [CT]
14957 I S CCCGACTGGTATCTGGTTCAAATGGGGAAACCTGAAGA
14957 P G S CGCGCCGAGGCACCTATGACAGGCCAG
14957 P A S CGCGCCGAGGTACCTATGACAGGCCAGG
14957 T G S TGGGCCTGGCCTGTCATAGGTGCTTCAGGTTTCCCCATTTGAACCAGATACCAGTCGGGTT
14957 T A S TGGGCCTGGCCTGTCATAGGTACTTCAGGTTTCCCCATTTGAACCAGATACCAGTCGGGTT
14957 IS [GA]
14965 I S GGCTGGGGAGGCAGCGTCATTAGGTCT
14965 P T S CGCGCCGAGGATGGCAAGAGGCTGAAC
14965 P C S CGCGCCGAGGGTGGCAAGAGGCTGAAC
14965 T T S CCACGTTCAGCCTCTTGCCATGACCTAATGACGCTGCCTCCCCAGCCCA
14965 T C S CCACGTTCAGCCTCTTGCCACGACCTAATGACGCTGCCTCCCCAGCCCA
14965 IS [TC]
15014 I A TGCAGGAAAGGCCATTGTGGAGAGGGTTCTA
15014 P C A CGCGCCGAGGCCTTTAGGGCTGCACAAA
15014 P T A CGCGCCGAGGTCTTTAGGGCTGCACAAAG
15014 T C A GTGGCTTTGTGCAGCCCTAAAGGAGAACCCTCTCCACAATGGCCTTTCCTGCACA
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15021 I A CTGCCGCAAGTCTGCAGCCCGGA
15021 P C A CGCGCCGAGGCGCCACCATCCTGC
15021 P T A CGCGCCGAGGTGCCACCATCCTGCA
15021 T C A AGGCTGCAGGATGGTGGCGCCGGGCTGCAGACTTGCGGCAGTT
15021 T T A AGGCTGCAGGATGGTGGCACCGGGCTGCAGACTTGCGGCAGTT
15021 IS [CT]
15023 I A CGCTAAGATTCTCCAATGTTTTCATGGTCTGAGCCCCT
15023 P G A CGCGCCGAGGGCTCCTGTTCCCATCTC
15023 P C A CGCGCCGAGGCCTCCTGTTCCCATCTCC
15023 T G A CAGTGGAGATGGGAACAGGAGCGGGGCTCAGACCATGAAAACATTGGAGAATCTTAGCGGG
15023 T C A CAGTGGAGATGGGAACAGGAGGGGGGCTCAGACCATGAAAACATTGGAGAATCTTAGCGGG
15023 IS [GC]
15050 I A TCTTTTTTAAATAAGTATTTCAGAAACGTGGCACAAAAACTACTTAAACATA
15050 P c A CGCGCCGAGGCGAACATTTGCATTAGTGAGTC
15050 P t A CGCGCCGAGGTGAACATTTGCATTAGTGAGTCT
15050 T c A CATTAGACTCACTAATGCAAATGTTCGATGTTTAAGTAGTTTTTGTGCCACGTTTCTGAAATACTTATTTAAAAAAGA
15050 T t A CATTAGACTCACTAATGCAAATGTTCAATGTTTAAGTAGTTTTTGTGCCACGTTTCTGAAATACTTATTTAAAAAAGA
15050 IS [CT]
23403 I S GTTCTTTCAACTTCCACTTGGGACTGCGGACCTTGT
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23403 P C S CGCGCCGAGGGCGTCTACTTTTATTTCTGTTTCC
23403 T T S GAGGAGGAAACAGAAATAAAAGTAGACGTCAAGGTCCGCAGTCCCAAGTGGAAGTTGAAAGAACCG
23403 T C S GAGGAGGAAACAGAAATAAAAGTAGACGCCAAGGTCCGCAGTCCCAAGTGGAAGTTGAAAGAACCG
23403 IS [TC]
23420 I A GGGGCCCTGCCTAACCTGGCCA
23420 P C A CGCGCCGAGGCGCCAGCCTCATCTTG
23420 P T A CGCGCCGAGGTGCCAGCCTCATCTTGG
23420 T C A GCAGCCAAGATGAGGCTGGCGGGCCAGGTTAGGCAGGGCCCCGG
23420 T T A GCAGCCAAGATGAGGCTGGCAGGCCAGGTTAGGCAGGGCCCCGG
23420 IS [CT]
23427 I S GTTGCAGGTAATAGCTCCTACCCAGCAATTCAA
23427 P A S CGCGCCGAGGTGACTAAGTACAAACTCTAGGCAY
23427 P G S CGCGCCGAGGCGACTAAGTACAAACTCTAGGCY
23427 T A S AGTTTGCCTAGAGTTTGTACTTAGTCATGAATTGCTGGGTAGGAGCTATTACCTGCAACTT
23427 T G S AGTTTGCCTAGAGTTTGTACTTAGTCGTGAATTGCTGGGTAGGAGCTATTACCTGCAACTT
23427 IS [AG]
23452 I S CCTCCAGGTGCTGCCAGCACCCCT
23452 P G S CGCGCCGAGGCCTCCCTCCAGCTTTCT
23452 P T S CGCGCCGAGGACTCCCTCCAGCTTTCTG
23452 T G S GAGTCAGAAAGCTGGAGGGAGGGGGGTGCTGGCAGCACCTGGAGGAA
23452 T T S GAGTCAGAAAGCTGGAGGGAGTGGGGTGCTGGCAGCACCTGGAGGAA
23452 IS [GT]
23463 I S CCAGGGACCGCATGCACTGCCCAT
23463 P T S CGCGCCGAGGAAAATCCCGGCTCCTG
23463 P C S CGCGCCGAGGGAAATCCCGGCTCCTG
23463 T T S GGCGCAGGAGCCGGGATTTTTGGGCAGTGCATGCGGTCCCTGGTG
23463 T C S GGCGCAGGAGCCGGGATTTCTGGGCAGTGCATGCGGTCCCTGGTG
23463 IS [TC]
23468 I S CAGTTGCAGAGTAGGGTTGGGCATCCTACCCT
23468 P C S CGCGCCGAGGGCTTTTACTCCTGAGCCC
23468 P G S CGCGCCGAGGCCTTTTACTCCTGAGCCC
23468 T C S GTGGGGGCTCAGGAGTAAAAGCGGGTAGGATGCCCAACCCTACTCTGCAACTGTA
23468 T G S GTGGGGGCTCAGGAGTAAAAGGGGGTAGGATGCCCAACCCTACTCTGCAACTGTA
23468 IS [CG]
23470 I S GCCCATGTGCCCCTCATAACACACAACTCTGTATTATTCCA
23470 P G S CGCGCCGAGGCATTTACCTCCCTTCCTGAC
23470 P A S CGCGCCGAGGTATTTACCTCCCTTCCTGACC
23470 T G S GAATGGTCAGGAAGGGAGGTAAATGGGAATAATACAGAGTTGTGTGTTATGAGGGGCACATGGGCTG
23470 T A S GAATGGTCAGGAAGGGAGGTAAATAGGAATAATACAGAGTTGTGTGTTATGAGGGGCACATGGGCTG
23470 IS [GA]
23472 I S AGTTGGAAGAGGCAAGGAGTGTTCCCACCCA
23472 P A S CGCGCCGAGGTGGAGGCTTCAGAGGGY
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23472 T A S AGCACCCTCTGAAGCCTCCAGGGTGGGAACACTCCTTGCCTCTTCCAACTTC

FIGURE 129E



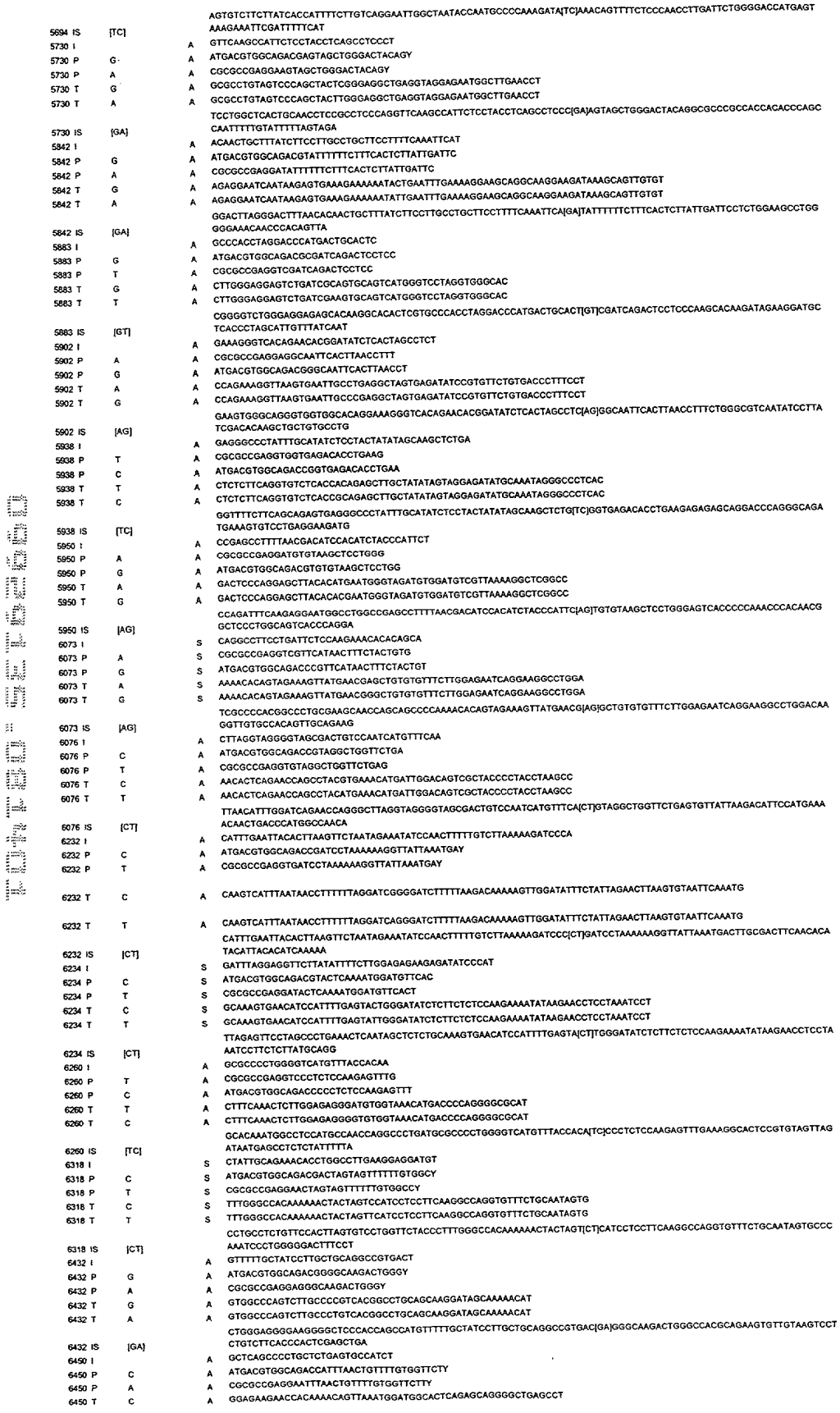
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FIGURE 129E



Filed: 30 June 2006

FIGURE 129E



Applied Biosystems

FIGURE 129E

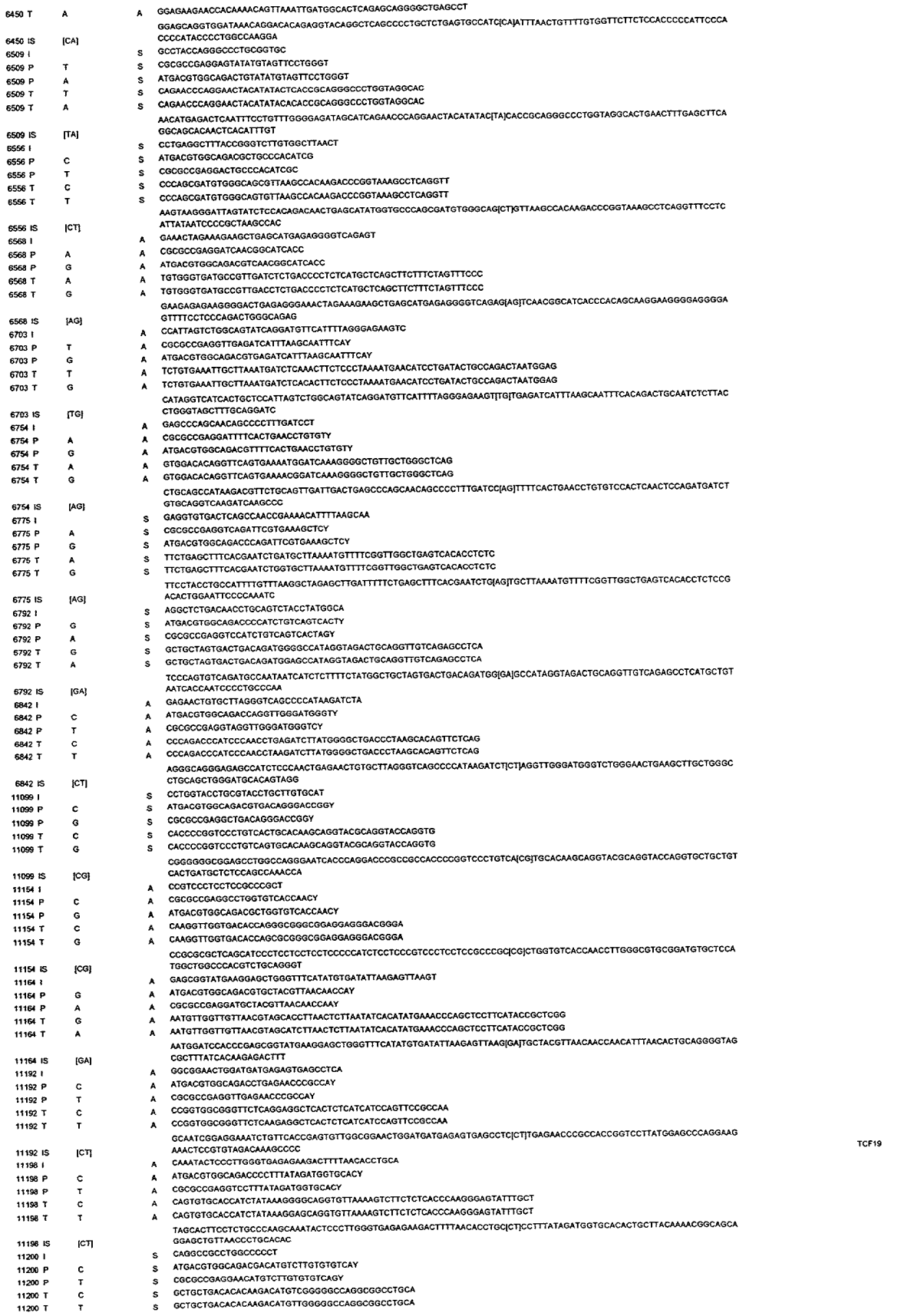
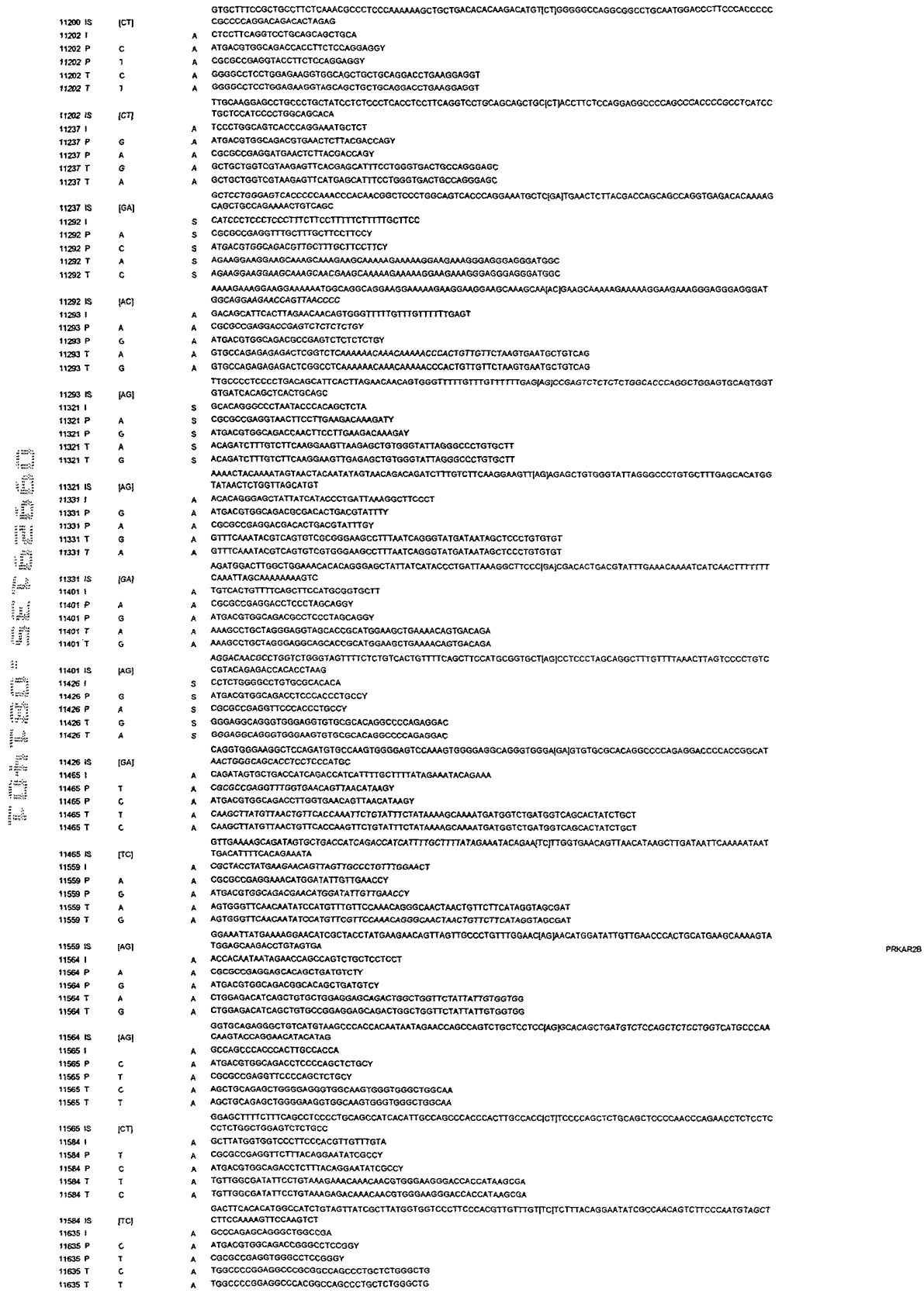

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6509 P T S CGCGCCGAGGAGTATATGTAGTTCCTGGGT
6509 P A S ATGACGTGGCAGACTGTATATGTAGTTCCTGGGT
6509 T T S CAGAACCCAGGAACTACATATACTCACCGCAGGGCCCTGGTAGGCAC
6509 T A S CAGAACCCAGGAACTACATATACACACCGCAGGGCCCTGGTAGGCAC
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6556 I S CCTGAGGCTTTACCGGGTCTTGTGGCTTAACT
6556 P C S ATGACGTGGCAGACGCTGCCCACATCG
6556 P T S CGCGCCGAGGACTGCCCACATCGC
6556 T C S CCCAGCGATGTGGGCAGCGTTAAGCCACAAGACCCGGTAAAGCCTCAGGTT
6556 T T S CCCAGCGATGTGGGCAGTGTTAAGCCACAAGACCCGGTAAAGCCTCAGGTT
6556 IS [CT] AAGTAAGGGATTAGTATCTCCACAGACAACTGAGCATATGGTGCCCAGCGATGTGGGCAG[CT]GTTAAGCCACAAGACCCGGTAAAGCCTCAGGTTTCCTC ATTATAATCCCCGCTAAGCCAC
6568 I A GAAACTAGAAAGAAGCTGAGCATGAGAGGGGTCAGAGT
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6568 P G A ATGACGTGGCAGACGTCAACGGCATCACC
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6568 T G A TGTGGGTGATGCCGTTGACCTCTGACCCCTCTCATGCTCAGCTTCTTTCTAGTTTCCC
6568 IS [AG] GAAGAGAGAAGGGGACTGAGAGGGAAACTAGAAAGAAGCTGAGCATGAGAGGGGTCAGAG[AG]TCAACGGCATCACCCACAGCAAGGAAGGGGAGGGGA GTTTTCCTCCCAGACTGGGCAGAG
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6754 T G A GTGGACACAGGTTCAGTGAAAACGGATCAAAGGGGCTGTTGCTGGGCTCAG
6754 IS [AG] CTGCAGCCATAAGACGTTCTGCAGTTGATTGACTGAGCCCAGCAACAGCCCCTTTGATCC[AG]TTTTCACTGAACCTGTGTCCACTCAACTCCAGATGATCT GTGCAGGTCAAGATCAAGCCC
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6792 T A S GCTGCTAGTGACTGACAGATGGAGCCATAGGTAGACTGCAGGTTGTCAGAGCCTCA
6792 IS [GA] TCCCAGTGTCAGATGCCAATAATCATCTCTTTTCTATGGCTGCTAGTGACTGACAGATGG[GA]GCCATAGGTAGACTGCAGGTTGTCAGAGCCTCATGCTGT AATCACCAATCCCCTGCCCAA
6842 I A GAGAACTGTGCTTAGGGTCAGCCCCATAAGATCTA
6842 P C A ATGACGTGGCAGACCAGGTTGGGATGGGTY
6842 P T A CGCGCCGAGGTAGGTTGGGATGGGTCY
6842 T C A CCCAGACCCATCCCAACCTGAGATCTTATGGGGCTGACCCTAAGCACAGTTCTCAG
6842 T T A CCCAGACCCATCCCAACCTAAGATCTTATGGGGCTGACCCTAAGCACAGTTCTCAG
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11099 P C S CGCGCCGAGGCTGACAGGGACCGGY
11099 P G S CACCCCGGTCCCTGTCACTGCACAAGCAGGTACGCAGGTACCAGGTG
11099 T C S CACCCCGGTCCCTGTCAGTGCACAAGCAGGTACGCAGGTACCAGGTG
11099 T G S CGGGGGGCGGAGCCTGGCCAGGGAATCACCCAGGACCCGCCGCCACCCCGGTCCCTGTCA[CG]TGCACAAGCAGGTACGCAGGTACCAGGTGCTGCTGT CACTGATGCTCTCCAGCCAAACCA
11154 I A CCGTCCCTCCTCCGCCCGCT
11154 P C A CGCGCCGAGGCCTGGTGTCACCAACY
11154 P G A ATGACGTGGCAGACGCTGGTGTCACCAACY
11154 T C A CAAGGTTGGTGACACCAGGGCGGGCGGAGGAGGGACGGGA
11154 T G A CAAGGTTGGTGACACCAGCGCGGGCGGAGGAGGGACGGGA
11154 IS [CG] CCGCGCGCTCAGCATCCCTCCTCCTCCTCCCCCATCTCCTCCCGTCCCTCCTCCGCCCGC[CG]CTGGTGTCACCAACCTTGGGCGTGCGGATGTGCTCCA TGGCTGGCCCACGTCTGCAGGGT
11164 I A GAGCGGTATGAAGGAGCTGGGTTTCATATGTGATATTAAGAGTTAAGT
11164 P G A ATGACGTGGCAGACGTGCTACGTTAACAACCAY
11164 P A A CGCGCCGAGGATGCTACGTTAACAACCAAY
11164 T G A AATGTTGGTTGTTAACGTAGCACCTTAACTCTTAATATCACATATGAAACCCAGCTCCTTCATACCGCTCGG
11164 T A A AATGTTGGTTGTTAACGTAGCATCTTAACTCTTAATATCACATATGAAACCCAGCTCCTTCATACCGCTCGG
11164 IS [GA] AATGGATCCACCCGAGCGGTATGAAGGAGCTGGGTTTCATATGTGATATTAAGAGTTAAG[GA]TGCTACGTTAACAACCAACATTTAACACTGCAGGGGTAG CGCTTTATCACAAGAGACTTT
11192 I A GGCGGAACTGGATGATGAGAGTGAGCCTCA
11192 P C A ATGACGTGGCAGACCTGAGAACCCGCCAY
11192 P T A CGCGCCGAGGTTGAGAACCCGCCAY
11192 T C A CCGGTGGCGGGTTCTCAGGAGGCTCACTCTCATCATCCAGTTCCGCCAA
11192 T T A CCGGTGGCGGGTTCTCAAGAGGCTCACTCTCATCATCCAGTTCCGCCAA
11192 IS [CT] GCAATCGGAGGAAATCTGTTCACCGAGTGTTGGCGGAACTGGATGATGAGAGTGAGCCTC[CT]TGAGAACCCGCCACCGGTCCTTATGGAGCCCAGGAAG AAACTCCGTGTAGACAAAGCCCC
11198 I A CAAATACTCCCTTGGGTGAGAGAAGACTTTTAACACCTGCA
11198 P C A ATGACGTGGCAGACCCCTTTATAGATGGTGCACY
11198 P T A CGCGCCGAGGTCCTTTATAGATGGTGCACY
11198 T C A CAGTGTGCACCATCTATAAAGGGGCAGGTGTTAAAAGTCTTCTCTCACCCAAGGGAGTATTTGCT
11198 T T A CAGTGTGCACCATCTATAAAGGAGCAGGTGTTAAAAGTCTTCTCTCACCCAAGGGAGTATTTGCT
11198 IS [CT] TAGCACTTCCTCTGCCCAAGCAAATACTCCCTTGGGTGAGAGAAGACTTTTAACACCTGC[CT]CCTTTATAGATGGTGCACACTGCTTACAAAACGGCAGCA GGAGCTGTTAACCCTGCACAC
11200 I S CAGGCCGCCTGGCCCCCT
11200 P C S ATGACGTGGCAGACGACATGTCTTGTGTGTCAGY
11200 P T S CGCGCCGAGGAACATGTCTTGTGTGTCAGY
11200 T C S GCTGCTGACACACAAGACATGTCGGGGGCCAGGCGGCCTGCA
11200 T T S GCTGCTGACACACAAGACATGTTGGGGGCCAGGCGGCCTGCA
TCF19

FIGURE 129E



PRKAR2B

			GAGCCGCCCTGGGTACCCCCTTGCAGGTAACACTGCCTCAGCCCAGAGCAGGGCTGGCCG[CT]GGGCCTCCGGGGCCAGGGGCGGGGCCTCACCGAGC
11635	IS	[CT]	ATTCCCAGCAAGGTCAAGGACGGTG
11704	I		S CTTCTTAGGGGTCAGTGCCCAGTCTGGGC
11704	P	C	S ATGACGTGGCAGACGAGCTGCCTGGGCY
11704	P	A	S CGCGCCGAGGTAGCTGCCTGGGCY
11704	T	C	S ATGAGCCCAGGCAGCTCCCCAGACTGGGCACTGACCCCTAAGAAGTG
11704	T	A	S ATGAGCCCAGGCAGCTACCCAGACTGGGCACTGACCCCTAAGAAGTG
			AAAAATTTCTTTGCCTTATTACAATTTCTCCCACTGTCCAGTTGATGAGCCCAGGCAGCT[CA]CCCAGACTGGGCACTGACCCCTAAGAAGTGGGTATTTATT
11704	IS	[CA]	GCTTGTTAGACAATGTTGAT
11713	I		A ACGCTTCCTTCCTCACCATGGCCCAGC
11713	P	T	A CGCGCCGAGGTCCTTTGGGGTGCCY
11713	P	A	A ATGACGTGGCAGACACCTTTGGGGTGCCY
11713	T	T	A TCCAGGCACCCCAAAGGACTGGGCCATGGTGAGGAAGGAAGCGTCA
11713	T	A	A TCCAGGCACCCCAAAGGTCTGGGCCATGGTGAGGAAGGAAGCGTCA
			GTGCCTCCATCAGACAGCCCCTGAAAGGCAAGTGACGCTTCCTTCCTCACCATGGCCCAG[TA]CCTTTGGGGTGCCTGGACAAAGGAGGCACCAACGGAAT
11713	IS	[TA]	CTGGACAGAGGAGGCACCAACA
11793	I		S GGTTGCTAGTCTTGCAGCTTTCAATCCAAATCCCAT
11793	P	C	S ATGACGTGGCAGACGGTAACTGTAAAATACAGGATTGY
11793	P	T	S CGCGCCGAGGAGTAACTGTAAAATACAGGATTGAY
11793	T	C	S TTAGTCAATCCTGTATTTTACAGTTACCTGGGATTTGGATTGAAAGCTGCAAGACTAGCAACCCT
11793	T	T	S TTAGTCAATCCTGTATTTTACAGTTACTTGGGATTTGGATTGAAAGCTGCAAGACTAGCAACCCT
			TTTAGGCTAGAGAACTTCAGGACCAGCATGAAATTAGTCAATCCTGTATTTTACAGTTAC[CT]TGGGATTTGGATTGAAAGCTGCAAGACTAGCAACCCTGGG
11793	IS	[CT]	AGCCCTGGAGACAGAAGGTT
11891	I		S GTGAGAGCTCCATGTCACACTGATGTTCTTCAATGAAGTA
11891	P	G	S ATGACGTGGCAGACCGTATTTCCCAGCCTGY
11891	P	A	S CGCGCCGAGGTGTATTTCCCAGCCTGTY
11891	T	G	S CGGAACAGGCTGGGAAATACGACTTCATTGAAGAACATCAGTGTGACATGGAGCTCTCACAC
11891	T	A	S CGGAACAGGCTGGGAAATACAACTTCATTGAAGAACATCAGTGTGACATGGAGCTCTCACAC
			GTCTTATCTCAACCTCTGAAAAGACTTTGGGATGGGATGCCGGAACAGGCTGGGAAATAC[GA]ACTTCATTGAAGAACATCAGTGTGACATGGAGCTCTCAC
11891	IS	[GA]	ACACTGGTAAGGAGTTAAGAG
11918	I		A GCTTTGCTCAAAATCTATTGGCCAAATTTTCCCATCTAGAACGAAT
11918	P	A	A CGCGCCGAGGAAGCTCTAGATCCAGATTCCY
11918	P	G	A ATGACGTGGCAGACGAGCTCTAGATCCAGATTCCY
11918	T	A	A CAAAGGAATCTGGATCTAGAGCTTTCGTTCTAGATGGGAAAATTTGGCCAATAGATTTTGAGCAAAGCAA
11918	T	G	A CAAAGGAATCTGGATCTAGAGCTCTTCGTTCTAGATGGGAAAATTTGGCCAATAGATTTTGAGCAAAGCAA
			TTTCATTGCTTTTTTGCTTTGCTCAAAATCTATTGGCCAAATTTTCCCATCTAGAACGAA[AG]AGCTCTAGATCCAGATTCCTTTGCCAGCCCTATTTCCTGTG
11918	IS	[AG]	ACTCTCCTCCTGGAACTTT
11938	I		S ACAATACCTCTACTTTTTCATTAGCTGGAGTCTTCTTTCCTAC
11938	P	A	S CGCGCCGAGGTTGGTACCAGCTGTGGY
11938	P	C	S ATGACGTGGCAGACGTGGTACCAGCTGTGGY
11938	T	A	S AATCCCACAGCTGGTACCAATAGGAAAGAAGACTCCAGCTAATGAAAAAGTAGAGGTATTGTTT
11938	T	C	S AATCCCACAGCTGGTACCACTAGGAAAGAAGACTCCAGCTAATGAAAAAGTAGAGGTATTGTTT
			GGAAAAGCCCAAGTTAAAGCAACAAATGAATCCGAAGACGAAATCCCACAGCTGGTACCA[AC]TAGGAAAGAAGACTCCAGCTAATGAAAAAGTAGAGGTAT
11938	IS	[AC]	TGTTTTAATATTTACTGTTCA
12007	I		S CATGACTTACTGGTTCTGTGACTGCCACCAGATCATC
12007	P	A	S CGCGCCGAGGTGCATTCTTTATGCTTCTTGY
12007	P	C	S ATGACGTGGCAGACGGCATTCTTTATGCTTCTTGY
12007	T	A	S CAACCAAGAAGCATAAAGAATGCAATGATCTGGTGGCAGTCACAGAACCAGTAAGTCATGTG
12007	T	C	S CAACCAAGAAGCATAAAGAATGCCATGATCTGGTGGCAGTCACAGAACCAGTAAGTCATGTG
			AACAAGAATGTCAAAGCTGATTCCTTCTCAAAACTTTCAACCAAGAAGCATAAAGAATGC[AC]ATGATCTGGTGGCAGTCACAGAACCAGTAAGTCATGTGCA
12007	IS	[AC]	GGTGGTACCTTCATAAAAAT
12015	I		A CCCTGCTCCTGTAAGGAAAGAACCAGGTTTCCA
12015	P	C	A ATGACGTGGCAGACCCTTGCATTAGGATTTCATCY
12015	P	T	A CGCGCCGAGGTCTTGCATTAGGATTTCATCAY
12015	T	C	A GCAATGATGAAATCCTAATGCAAGGGGAAACCTGGTTCTTTCCTTACAGGAGCAGGGCA
12015	T	T	A GCAATGATGAAATCCTAATGCAAGAGGAAACCTGGTTCTTTCCTTACAGGAGCAGGGCA
			GTAAGGACTTTGAGGACCTAGGACCATGCCCTGCTCCTGTAAGGAAAGAACCAGGTTTCC[CT]CTTGCATTAGGATTTCATCATTGCCAGGCTTGGAAACTG
12015	IS	[CT]	AGGCAGACTAAATTGCTTTCT
12115	I		S GGGCTGAGACTGACCCCGCCTCATT
12115	P	G	S ATGACGTGGCAGACCCACCACGGGCGY
12115	P	T	S CGCGCCGAGGACACCACGGGCGY
12115	T	G	S CAGGCGCCCGTGGTGGATGAGGCGGGGTCAGTCTCAGCCCCT
12115	T	T	S CAGGCGCCCGTGGTGTATGAGGCGGGGTCAGTCTCAGCCCCT
			ACCTGTGGGCACACCATCGAGATCCTCCGGGAGAAGGGCTTCGACCAGGCGCCCGTGGTG[GT]ATGAGGCGGGGTCAGTCTCAGCCCCTGCTCAGAGCT
12115	IS	[GT]	CAGTCCTGGGTTCTGTCTGCCCAG
12138	I		S GCTTTAACTTTTATCTCATAGACCCTGTGAAAATTTTAACTTCCCAAGA
12138	P	A	S CGCGCCGAGGTTTCCCTCTTTGCCCTY
12138	P	G	S ATGACGTGGCAGACCTTCCCTCTTTGCCCTY
12138	T	A	S AGCCAGGGCAAAGAGGGAAACTTGGGAAGTTAAAATTTTCACAGGGTCTATGAGATAAAAGTTAAAGCAG
12138	T	G	S AGCCAGGGCAAAGAGGGAAGCTTGGGAAGTTAAAATTTTCACAGGGTCTATGAGATAAAAGTTAAAGCAG
			GTAGTCCAAGAAACTCCAAATTTTATTTGGAGTCTCTTAGCAGCCAGGGCAAAGAGGGAA[AG]CTTGGGAAGTTAAAATTTTCACAGGGTCTATGAGATAAAA
12138	IS	[AG]	GTTAAAGCAGAGAATACTGT
12150	I		S CCAGGCTGGTGTCTGGGTTCTGTGCTCA
12150	P	G	S ATGACGTGGCAGACCCTTCCCCATCCCAGY
12150	P	A	S CGCGCCGAGGTCTTCCCCATCCCAGY
12150	T	G	S ACACCTGGGATGGGGAAGGGAGCACAGAACCCAGACACCAGCCTGGAC
12150	T	A	S ACACCTGGGATGGGGAAGAGAGCACAGAACCCAGACACCAGCCTGGAC
			CACTCCTCCAGCACACATGTGGCTATCTTGAGAATGGACAGGACACCTGGGATGGGGAAG[GA]GAGCACAGAACCCAGACACCAGCCTGGACACAGGCAC
12150	IS	[GA]	CTGGGATAATCTCCTATTCCGTG
12234	I		S CTCCCAAGTATGTCTCTGCCCACGTCCCT
12234	P	C	S ATGACGTGGCAGACGTGCCTCTTCACTGATTCY
12234	P	T	S CGCGCCGAGGATGCCTCTTCACTGATTCY
12234	T	C	S TTTAGAATCAGTGAAGAGGCACGGGACGTGGGCAGAGACATACTTGGGAGTG
12234	T	T	S TTTAGAATCAGTGAAGAGGCATGGGACGTGGGCAGAGACATACTTGGGAGTG
			CTCTCCTCCCCGAATCCTGACCATAGCCCTGTGGGCTAATTTAGAATCAGTGAAGAGGCA[CT]GGGACGTGGGCAGAGACATACTTGGGAGTGGTGTGTAC
12234	IS	[CT]	CTACTCAGAGGCAGGTGAAGGA
12297	I		A TCTCCTTTACAATGAAATTTTAACTAGCAAAAGGAATCCAACAGATA
12297	P	T	A CGCGCCGAGGTCCTTCCCCACAGGY
12297	P	C	A ATGACGTGGCAGACCCCTTCCCCACAGGY
12297	T	T	A CTCCCCTGTGGGGAAGGAATCTGTTGGATTCCTTTTGCTAGTTAAAATTTCATTGTAAAGGAGATT
12297	T	C	A CTCCCCTGTGGGGAAGGGATCTGTTGGATTCCTTTTGCTAGTTAAAATTTCATTGTAAAGGAGATT
			ATGCTTCTCAACAATCTCCTTTACAATGAAATTTTAACTAGCAAAAGGAATCCAACAGAT[TC]CCTTCCCCACAGGGGAGCACAGGAGGCCTGAGTAGGGGA
12297	IS	[TC]	AAAGAGGCCCCGCACTGCACT
12488	I		S CGGACCGCCCGGGTCCCTCT
12488	P	T	S CGCGCCGAGGAGAGTCTCCGGATCCY
12488	P	G	S ATGACGTGGCAGACCGAGTCTCCGGATCCY
12488	T	T	S TTTCGGATCCGGAGACTCTGAGGGACCCGGGCGGTCCGTG
12488	T	G	S TTTCGGATCCGGAGACTCGGAGGGACCCGGGCGGTCCGTG

FIGURE 129E

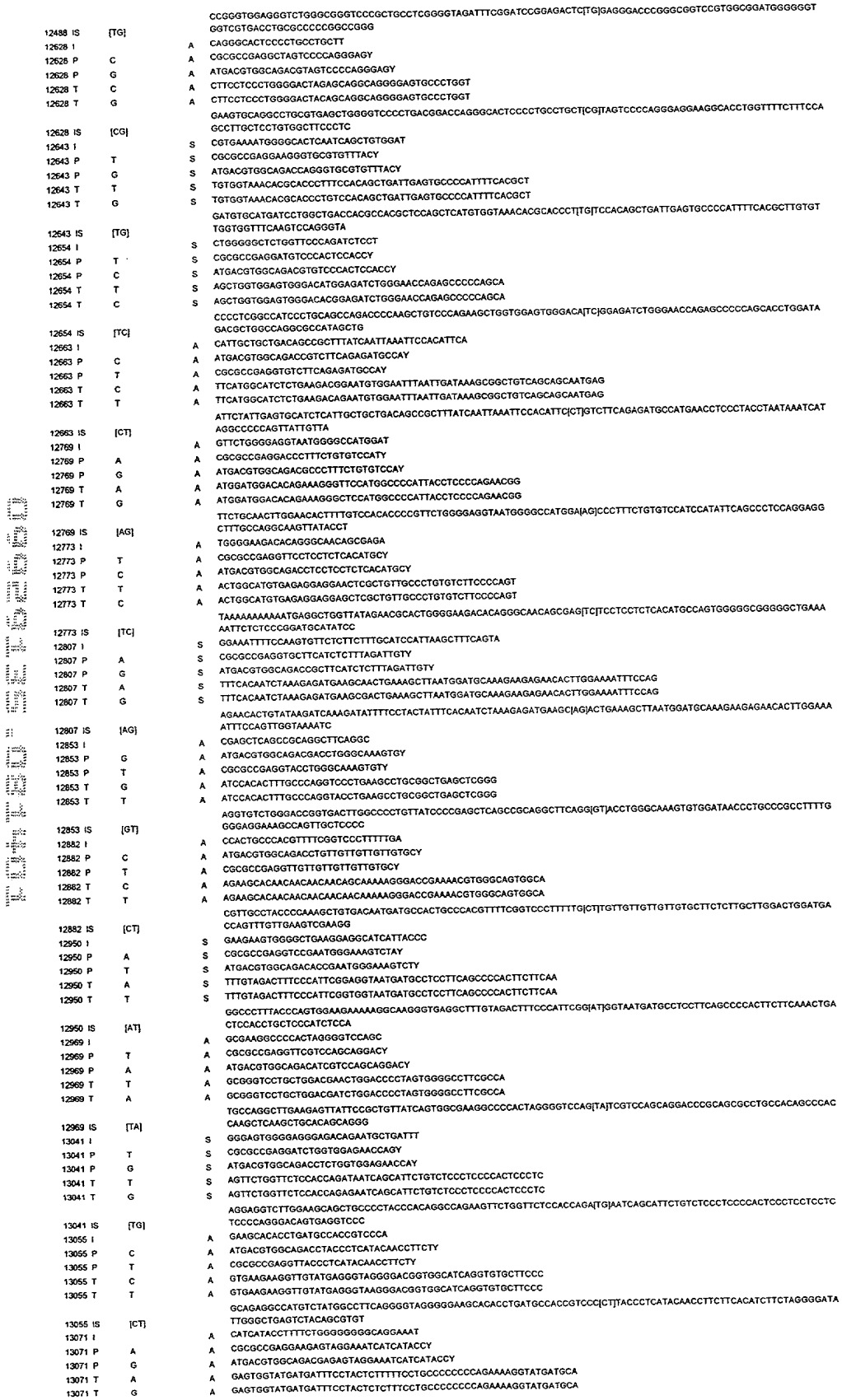
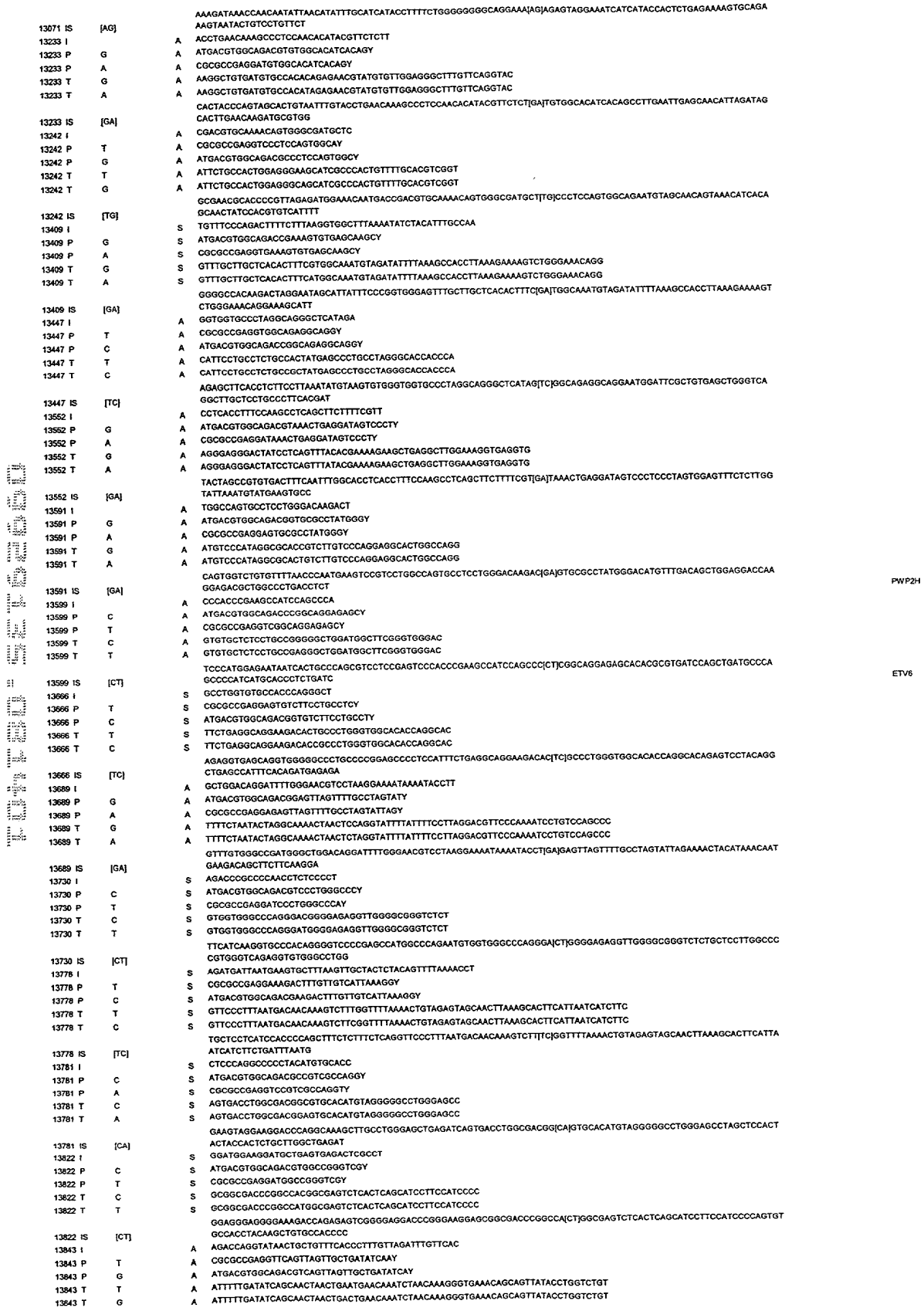


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FIGURE 129E



PWP2H

ETV6

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FIGURE 129E

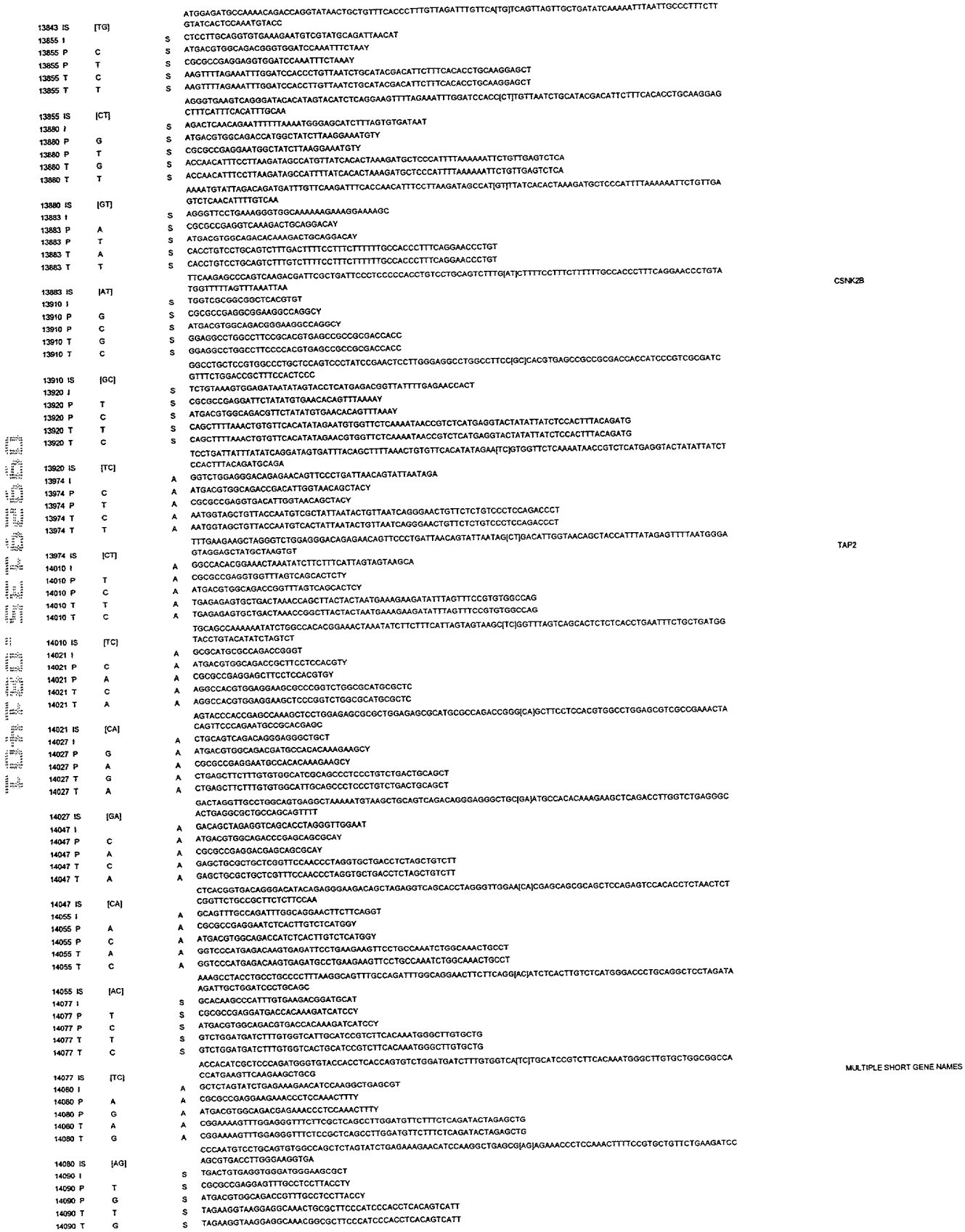

ATGGAGATGCCAAAACAGACCAGGTATAACTGCTGTTTCACCCTTTGTTAGATTTGTTCA[TG]TCAGTTAGTTGCTGATATCAAAAATTTAATTGCCCTTTCTT
GTATCACTCCAAATGTACC
13843 IS [TG]
13855 I S CTCCTTGCAGGTGTGAAAGAATGTCGTATGCAGATTAACAT
13855 P C S ATGACGTGGCAGACGGGTGGATCCAAATTTCTAAY
13855 P T S CGCGCCGAGGAGGTGGATCCAAATTTCTAAAY
13855 T C S AAGTTTTAGAAATTTGGATCCACCCTGTTAATCTGCATACGACATTCTTTCACACCTGCAAGGAGCT
13855 T T S AAGTTTTAGAAATTTGGATCCACCTTGTTAATCTGCATACGACATTCTTTCACACCTGCAAGGAGCT
AGGGTGAAGTCAGGGATACACATAGTACATCTCAGGAAGTTTTAGAAATTTGGATCCACC[CT]TGTTAATCTGCATACGACATTCTTTCACACCTGCAAGGAG
CTTTCATTTCACATTTGCAA
13855 IS [CT]
13880 I S AGACTCAACAGAATTTTTTAAAATGGGAGCATCTTTAGTGTGATAAT
13880 P G S ATGACGTGGCAGACCATGGCTATCTTAAGGAAATGTY
13880 P T S CGCGCCGAGGAATGGCTATCTTAAGGAAATGTY
13880 T G S ACCAACATTTCCTTAAGATAGCCATGTTATCACACTAAAGATGCTCCCATTTTAAAAAATTCTGTTGAGTCTCA
13880 T T S ACCAACATTTCCTTAAGATAGCCATTTTATCACACTAAAGATGCTCCCATTTTAAAAAATTCTGTTGAGTCTCA
AAAATGTATTAGACAGATGATTTGTTCAAGATTTCACCAACATTTCCTTAAGATAGCCAT[GT]TTATCACACTAAAGATGCTCCCATTTTAAAAAATTCTGTTGA
GTCTCAACATTTTGTCAA
13880 IS [GT]
13883 I S AGGGTTCCTGAAAGGGTGGCAAAAAAGAAAGGAAAAGC
13883 P A S CGCGCCGAGGTCAAAGACTGCAGGACAY
13883 P T S ATGACGTGGCAGACACAAAGACTGCAGGACAY
13883 T A S CACCTGTCCTGCAGTCTTTGACTTTTCCTTTCTTTTTTGCCACCCTTTCAGGAACCCTGT
13883 T T S CACCTGTCCTGCAGTCTTTGTCTTTTCCTTTCTTTTTTGCCACCCTTTCAGGAACCCTG
TTCAAGAGCCCAGTCAAGACGATTCGCTGATTCCCTCCCCCACCTGTCCTGCAGTCTTTG[AT]CTTTTCCTTTCTTTTTTGCCACCCTTTCAGGAACCCTGTA
TGGTTTTTAGTTTAAATTAA
13883 IS [AT]
13910 I S TGGTCGCGGCGGCTCACGTGT
13910 P G S CGCGCCGAGGCGGAAGGCCAGGCY
13910 P C S ATGACGTGGCAGACGGGAAGGCCAGGCY
13910 T G S GGAGGCCTGGCCTTCCGCACGTGAGCCGCCGCGACCACC
13910 T C S GGAGGCCTGGCCTTCCCCACGTGAGCCGCCGCGACCACC
GGCCTGCTCCGTGGCCCTGCTCCAGTCCCTATCCGAACTCCTTGGGAGGCCTGGCCTTCC[GC]CACGTGAGCCGCCGCGACCACCATCCCGTCGCGATC
GTTTCTGGACCGCTTTCCACTCCC
13910 IS [GC]
13920 I S TCTGTAAAGTGGAGATAATATAGTACCTCATGAGACGGTTATTTTGAGAACCACT
13920 P T S CGCGCCGAGGATTCTATATGTGAACACAGTTTAAAAY
13920 P C S ATGACGTGGCAGACGTTCTATATGTGAACACAGTTTAAAY
13920 T T S CAGCTTTTAAACTGTGTTCACATATAGAATGTGGTTCTCAAAATAACCGTCTCATGAGGTACTATATTATCTCCACTTTACAGATG
13920 T C S CAGCTTTTAAACTGTGTTCACATATAGAACGTGGTTCTCAAAATAACCGTCTCATGAGGTACTATATTATCTCCACTTTACAGATG
TCCTGATTATTTATATCAGGATAGTGATTTACAGCTTTTAAACTGTGTTCACATATAGAA[TC]GTGGTTCTCAAAATAACCGTCTCATGAGGTACTATATTATCT
CCACTTTACAGATGCAGA
13920 IS [TC]
13974 I A GGTCTGGAGGGACAGAGAACAGTTCCCTGATTAACAGTATTAATAGA
13974 P C A ATGACGTGGCAGACCGACATTGGTAACAGCTACY
13974 P T A CGCGCCGAGGTGACATTGGTAACAGCTACY
13974 T C A AATGGTAGCTGTTACCAATGTCGCTATTAATACTGTTAATCAGGGAACTGTTCTCTGTCCCTCCAGACCCT
13974 T T A AATGGTAGCTGTTACCAATGTCACTATTAATACTGTTAATCAGGGAACTGTTCTCTGTCCCTCCAGACCCT
TTTGAAGAAGCTAGGGTCTGGAGGGACAGAGAACAGTTCCCTGATTAACAGTATTAATAG[CT]GACATTGGTAACAGCTACCATTTATAGAGTTTTAATGGGA
GTAGGAGCTATGCTAAGTGT
13974 IS [CT]
14010 I A GGCCACACGGAAACTAAATATCTTCTTTCATTAGTAGTAAGCA
14010 P T A CGCGCCGAGGTGGTTTAGTCAGCACTCTY
14010 P C A ATGACGTGGCAGACCGGTTTAGTCAGCACTCY
14010 T T A TGAGAGAGTGCTGACTAAACCAGCTTACTACTAATGAAAGAAGATATTTAGTTTCCGTGTGGCCAG
14010 T C A TGAGAGAGTGCTGACTAAACCGGCTTACTACTAATGAAAGAAGATATTTAGTTTCCGTGTGGCCAG
TGCAGCCAAAAAATATCTGGCCACACGGAAACTAAATATCTTCTTTCATTAGTAGTAAGC[TC]GGTTTAGTCAGCACTCTCTCACCTGAATTTCTGCTGATGG
TACCTGTACATATCTAGTCT
14010 IS [TC]
14021 I A GCGCATGCGCCAGACCGGGT
14021 P C A ATGACGTGGCAGACCGCTTCCTCCACGTY
14021 P A A CGCGCCGAGGAGCTTCCTCCACGTGY
14021 T C A AGGCCACGTGGAGGAAGCGCCCGGTCTGGCGCATGCGCTC
14021 T A A AGGCCACGTGGAGGAAGCTCCCGGTCTGGCGCATGCGCTC
AGTACCCACCGAGCCAAAGCTCCTGGAGAGCGCGCTGGAGAGCGCATGCGCCAGACCGGG[CA]GCTTCCTCCACGTGGCCTGGAGCGTCGCCGAAACTA
CAGTTCCCAGAATGCCGCACGAGC
14021 IS [CA]
14027 I A CTGCAGTCAGACAGGGAGGGCTGCT
14027 P G A ATGACGTGGCAGACGATGCCACACAAAGAAGCY
14027 P A A CGCGCCGAGGAATGCCACACAAAGAAGCY
14027 T G A CTGAGCTTCTTTGTGTGGCATCGCAGCCCTCCCTGTCTGACTGCAGCT
14027 T A A CTGAGCTTCTTTGTGTGGCATTGCAGCCCTCCCTGTCTGACTGCAGCT
GACTAGGTTGCCTGGCAGTGAGGCTAAAAATGTAAGCTGCAGTCAGACAGGGAGGGCTGC[GA]ATGCCACACAAAGAAGCTCAGACCTTGGTCTGAGGGC
ACTGAGGCGCTGCCAGCAGTTTT
14027 IS [GA]
14047 I A GACAGCTAGAGGTCAGCACCTAGGGTTGGAAT
14047 P C A ATGACGTGGCAGACCCGAGCAGCGCAY
14047 P A A CGCGCCGAGGACGAGCAGCGCAY
14047 T C A GAGCTGCGCTGCTCGGTTCCAACCCTAGGTGCTGACCTCTAGCTGTCTT
14047 T A A GAGCTGCGCTGCTCGTTTCCAACCCTAGGTGCTGACCTCTAGCTGTCTT
CTCACGGTGACAGGGACATACAGAGGGAAGACAGCTAGAGGTCAGCACCTAGGGTTGGAA[CA]CGAGCAGCGCAGCTCCAGAGTCCACACCTCTAACTCT
CGGTTCTGCCGCTTCTCTTCCAA
14047 IS [CA]
14055 I A GCAGTTTGCCAGATTTGGCAGGAACTTCTTCAGGT
14055 P A A CGCGCCGAGGAATCTCACTTGTCTCATGGY
14055 P C A ATGACGTGGCAGACCATCTCACTTGTCTCATGGY
14055 T A A GGTCCCATGAGACAAGTGAGATTCCTGAAGAAGTTCCTGCCAAATCTGGCAAACTGCCT
14055 T C A GGTCCCATGAGACAAGTGAGATGCCTGAAGAAGTTCCTGCCAAATCTGGCAAACTGCCT
AAAGCCTACCTGCCTGCCCCTTTAAGGCAGTTTGCCAGATTTGGCAGGAACTTCTTCAGG[AC]ATCTCACTTGTCTCATGGGACCCTGCAGGCTCCTAGATA
AGATTGCTGGATCCCTGCAGC
14055 IS [AC]
14077 I S GCACAAGCCCATTTGTGAAGACGGATGCAT
14077 P T S CGCGCCGAGGATGACCACAAAGATCATCCY
14077 P C S ATGACGTGGCAGACGTGACCACAAAGATCATCCY
14077 T T S GTCTGGATGATCTTTGTGGTCATTGCATCCGTCTTCACAAATGGGCTTGTGCTG
14077 T C S GTCTGGATGATCTTTGTGGTCACTGCATCCGTCTTCACAAATGGGCTTGTGCTG
ACCACATCGCTCCCAGATGGGTGTACCACCTCACCAGTGTCTGGATGATCTTTGTGGTCA[TC]TGCATCCGTCTTCACAAATGGGCTTGTGCTGGCGGCCA
CCATGAAGTTCAAGAAGCTGCG
14077 IS [TC]
14080 I A GCTCTAGTATCTGAGAAAGAACATCCAAGGCTGAGCGT
14080 P A A CGCGCCGAGGAAGAAACCCTCCAAACTTTY
14080 P G A ATGACGTGGCAGACGAGAAACCCTCCAAACTTTY
14080 T A A CGGAAAAGTTTGGAGGGTTTCTCCGCTCAGCCTTGGATGTTCTTTCTCAGATACTAGAGCTG
14080 T G A CGGAAAAGTTTGGAGGGTTTCTCCGCTCAGCCTTGGATGTTCTTTCTCAGATACTAGAGCTG
CCCAATGTCCTGCAGTGTGGCCAGCTCTAGTATCTGAGAAAGAACATCCAAGGCTGAGCG[AG]AGAAACCCTCCAAACTTTTCCGTGCTGTTCTGAAGATCC
AGCGTGACCTTGGGAAGGTGA
14080 IS [AG]
14090 I S TGACTGTGAGGTGGGATGGGAAGCGCT
14090 P T S CGCGCCGAGGAGTTTGCCTCCTTACCTY
14090 P G S ATGACGTGGCAGACCGTTTGCCTCCTTACCY
14090 T T S TAGAAGGTAAGGAGGCAAACTGCGCTTCCCATCCCACCTCACAGTCATT
14090 T G S TAGAAGGTAAGGAGGCAAACGGCGCTTCCCATCCCACCTCACAGTCATT
CSNK2B
TAP2
MULTIPLE SHORT GENE NAMES

FIGURE 129E

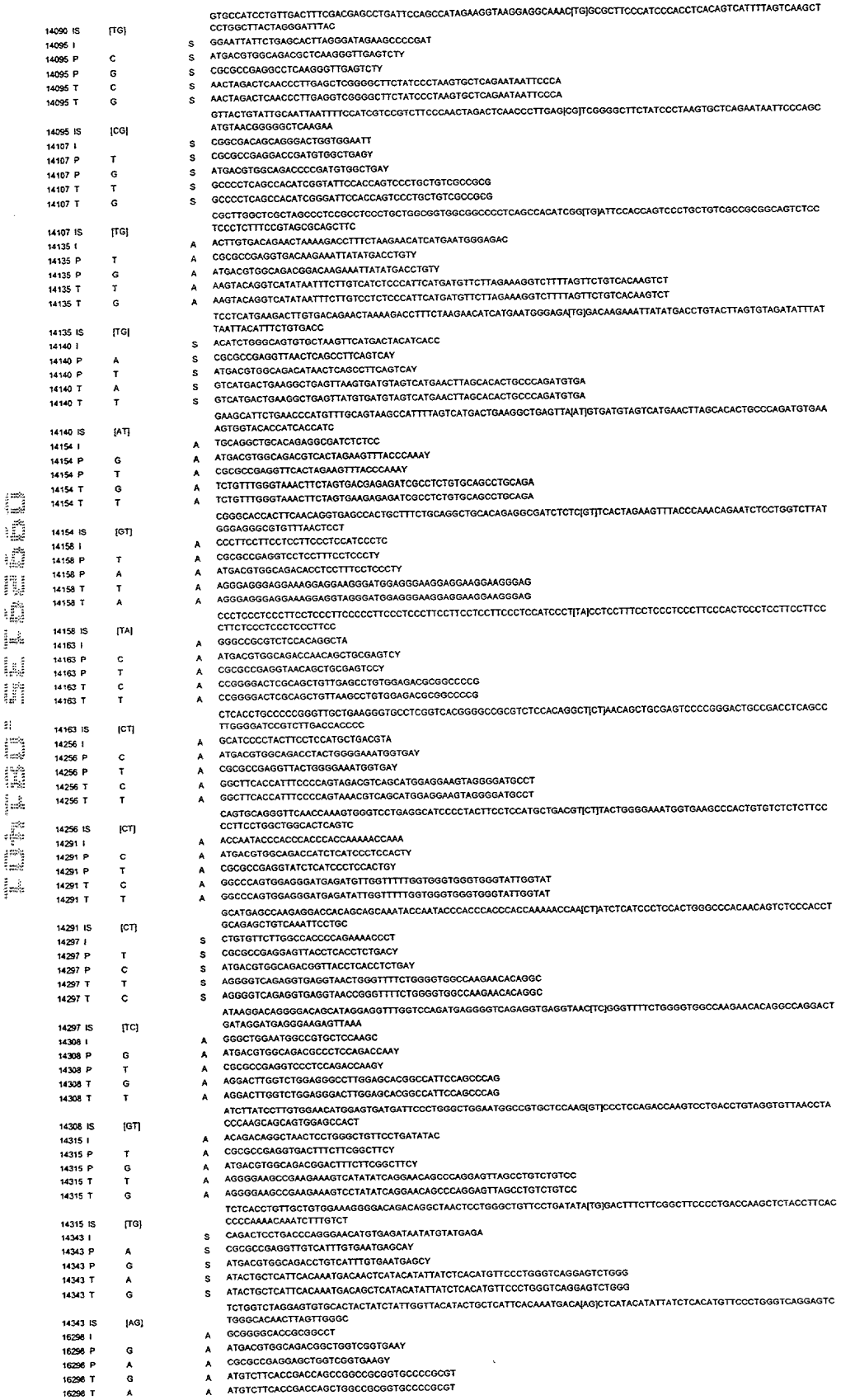
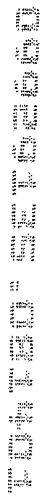

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14090 IS [TG] CCTGGCTTACTAGGGATTTAC
14095 I S GGAATTATTCTGAGCACTTAGGGATAGAAGCCCCGAT
14095 P C S ATGACGTGGCAGACGCTCAAGGGTTGAGTCTY
14095 P G S CGCGCCGAGGCCTCAAGGGTTGAGTCTY
14095 T C S AACTAGACTCAACCCTTGAGCTCGGGGCTTCTATCCCTAAGTGCTCAGAATAATTCCCA
14095 T G S AACTAGACTCAACCCTTGAGGTCGGGGCTTCTATCCCTAAGTGCTCAGAATAATTCCCA
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14095 IS [CG] ATGTAACGGGGGCTCAAGAA
14107 I S CGGCGACAGCAGGGACTGGTGGAATT
14107 P T S CGCGCCGAGGACCGATGTGGCTGAGY
14107 P G S ATGACGTGGCAGACCCCGATGTGGCTGAY
14107 T T S GCCCCTCAGCCACATCGGTATTCCACCAGTCCCTGCTGTCGCCGCG
14107 T G S GCCCCTCAGCCACATCGGGATTCCACCAGTCCCTGCTGTCGCCGCG
CGCTTGGCTCGCTAGCCCTCCGCCTCCCTGCTGGCGGTGGCGGCCCCTCAGCCACATCGG[TG]ATTCCACCAGTCCCTGCTGTCGCCGCGGCAGTCTCC
14107 IS [TG] TCCCTCTTTCCGTAGCGCAGCTTC
14135 I A ACTTGTGACAGAACTAAAAGACCTTTCTAAGAACATCATGAATGGGAGAC
14135 P T A CGCGCCGAGGTGACAAGAAATTATATGACCTGTY
14135 P G A ATGACGTGGCAGACGGACAAGAAATTATATGACCTGTY
14135 T T A AAGTACAGGTCATATAATTTCTTGTCATCTCCCATTCATGATGTTCTTAGAAAGGTCTTTTAGTTCTGTCACAAGTCT
14135 T G A AAGTACAGGTCATATAATTTCTTGTCCTCTCCCATTCATGATGTTCTTAGAAAGGTCTTTTAGTTCTGTCACAAGTCT
TCCTCATGAAGACTTGTGACAGAACTAAAAGACCTTTCTAAGAACATCATGAATGGGAGA[TG]GACAAGAAATTATATGACCTGTACTTAGTGTAGATATTTAT
14135 IS [TG] TAATTACATTTCTGTGACC
14140 I S ACATCTGGGCAGTGTGCTAAGTTCATGACTACATCACC
14140 P A S CGCGCCGAGGTTAACTCAGCCTTCAGTCAY
14140 P T S ATGACGTGGCAGACATAACTCAGCCTTCAGTCAY
14140 T A S GTCATGACTGAAGGCTGAGTTAAGTGATGTAGTCATGAACTTAGCACACTGCCCAGATGTGA
14140 T T S GTCATGACTGAAGGCTGAGTTATGTGATGTAGTCATGAACTTAGCACACTGCCCAGATGTGA
GAAGCATTCTGAACCCATGTTTGCAGTAAGCCATTTTAGTCATGACTGAAGGCTGAGTTA[AT]GTGATGTAGTCATGAACTTAGCACACTGCCCAGATGTGAA
14140 IS [AT] AGTGGTACACCATCACCATC
14154 I A TGCAGGCTGCACAGAGGCGATCTCTCC
14154 P G A ATGACGTGGCAGACGTCACTAGAAGTTTACCCAAAY
14154 P T A CGCGCCGAGGTTCACTAGAAGTTTACCCAAAY
14154 T G A TCTGTTTGGGTAAACTTCTAGTGACGAGAGATCGCCTCTGTGCAGCCTGCAGA
14154 T T A TCTGTTTGGGTAAACTTCTAGTGAAGAGAGATCGCCTCTGTGCAGCCTGCAGA
CGGGCACCACTTCAACAGGTGAGCCACTGCTTTCTGCAGGCTGCACAGAGGCGATCTCTC[GT]TCACTAGAAGTTTACCCAAACAGAATCTCCTGGTCTTAT
14154 IS [GT] GGGAGGGCGTGTTTAACTCCT
14158 I A CCCTTCCTTCCTCCTTCCCTCCATCCCTC
14158 P T A CGCGCCGAGGTCCTCCTTTCCTCCCTY
14158 P A A ATGACGTGGCAGACACCTCCTTTCCTCCCTY
14158 T T A AGGGAGGGAGGAAAGGAGGAAGGGATGGAGGGAAGGAGGAAGGAAGGGAG
14158 T A A AGGGAGGGAGGAAAGGAGGTAGGGATGGAGGGAAGGAGGAAGGAAGGGAG
CCCTCCCTCCCTTCCTCCCTTCCCCCTTCCCTCCCTTCCTTCCTCCTTCCCTCCATCCCT[TA]CCTCCTTTCCTCCCTCCCTTCCCACTCCCTCCTTCCTTCC
14158 IS [TA] CTTCTCCCTCCCTCCCTTCC
14163 I A GGGCCGCGTCTCCACAGGCTA
14163 P C A ATGACGTGGCAGACCAACAGCTGCGAGTCY
14163 P T A CGCGCCGAGGTAACAGCTGCGAGTCCY
14163 T C A CCGGGGACTCGCAGCTGTTGAGCCTGTGGAGACGCGGCCCCG
14163 T T A CCGGGGACTCGCAGCTGTTAAGCCTGTGGAGACGCGGCCCCG
CTCACCTGCCCCCGGGTTGCTGAAGGGTGCCTCGGTCACGGGGCCGCGTCTCCACAGGCT[CT]AACAGCTGCGAGTCCCCGGGACTGCCGACCTCAGCC
14163 IS [CT] TTGGGGATCCGTCTTGACCACCCC
14256 I A GCATCCCCTACTTCCTCCATGCTGACGTA
14256 P C A ATGACGTGGCAGACCTACTGGGGAAATGGTGAY
14256 P T A CGCGCCGAGGTTACTGGGGAAATGGTGAY
14256 T C A GGCTTCACCATTTCCCCAGTAGACGTCAGCATGGAGGAAGTAGGGGATGCCT
14256 T T A GGCTTCACCATTTCCCCAGTAAACGTCAGCATGGAGGAAGTAGGGGATGCCT
CAGTGCAGGGTTCAACCAAAGTGGGTCCTGAGGCATCCCCTACTTCCTCCATGCTGACGT[CT]TACTGGGGAAATGGTGAAGCCCACTGTGTCTCTCTTCC
14256 IS [CT] CCTTCCTGGCTGGCACTCAGTC
14291 I A ACCAATACCCACCCACCCACCAAAAACCAAA
14291 P C A ATGACGTGGCAGACCATCTCATCCCTCCACTY
14291 P T A CGCGCCGAGGTATCTCATCCCTCCACTGY
14291 T C A GGCCCAGTGGAGGGATGAGATGTTGGTTTTTGGTGGGTGGGTGGGTATTGGTAT
14291 T T A GGCCCAGTGGAGGGATGAGATATTGGTTTTTGGTGGGTGGGTGGGTATTGGTAT
GCATGAGCCAAGAGGACCACAGCAGCAAATACCAATACCCACCCACCCACCAAAAACCAA[CT]ATCTCATCCCTCCACTGGGCCCACAACAGTCTCCCACCT
14291 IS [CT] GCAGAGCTGTCAAATTCCTGC
14297 I S CTGTGTTCTTGGCCACCCCAGAAAACCCT
14297 P T S CGCGCCGAGGAGTTACCTCACCTCTGACY
14297 P C S ATGACGTGGCAGACGGTTACCTCACCTCTGAY
14297 T T S AGGGGTCAGAGGTGAGGTAACTGGGTTTTCTGGGGTGGCCAAGAACACAGGC
14297 T C S AGGGGTCAGAGGTGAGGTAACCGGGTTTTCTGGGGTGGCCAAGAACACAGGC
ATAAGGACAGGGGACAGCATAGGAGGTTTGGTCCAGATGAGGGGTCAGAGGTGAGGTAAC[TC]GGGTTTTCTGGGGTGGCCAAGAACACAGGCCAGGACT
14297 IS [TC] GATAGGATGAGGGAAGAGTTAAA
14308 I A GGGCTGGAATGGCCGTGCTCCAAGC
14308 P G A ATGACGTGGCAGACGCCCTCCAGACCAAY
14308 P T A CGCGCCGAGGTCCCTCCAGACCAAGY
14308 T G A AGGACTTGGTCTGGAGGGCCTTGGAGCACGGCCATTCCAGCCCAG
14308 T T A AGGACTTGGTCTGGAGGGACTTGGAGCACGGCCATTCCAGCCCAG
ATCTTATCCTTGTGGAACATGGAGTGATGATTCCCTGGGCTGGAATGGCCGTGCTCCAAG[GT]CCCTCCAGACCAAGTCCTGACCTGTAGGTGTTAACCTA
14308 IS [GT] CCCAAGCAGCAGTGGAGCCACT
14315 I A ACAGACAGGCTAACTCCTGGGCTGTTCCTGATATAC
14315 P T A CGCGCCGAGGTGACTTTCTTCGGCTTCY
14315 P G A ATGACGTGGCAGACGGACTTTCTTCGGCTTCY
14315 T T A AGGGGAAGCCGAAGAAAGTCATATATCAGGAACAGCCCAGGAGTTAGCCTGTCTGTCC
14315 T G A AGGGGAAGCCGAAGAAAGTCCTATATCAGGAACAGCCCAGGAGTTAGCCTGTCTGTCC
TCTCACCTGTTGCTGTGGAAAGGGGACAGACAGGCTAACTCCTGGGCTGTTCCTGATATA[TG]GACTTTCTTCGGCTTCCCCTGACCAAGCTCTACCTTCAC
14315 IS [TG] CCCCAAAACAAATCTTTGTCT
14343 I S CAGACTCCTGACCCAGGGAACATGTGAGATAATATGTATGAGA
14343 P A S CGCGCCGAGGTTGTCATTTGTGAATGAGCAY
14343 P G S ATGACGTGGCAGACCTGTCATTTGTGAATGAGCY
14343 T A S ATACTGCTCATTCACAAATGACAACTCATACATATTATCTCACATGTTCCCTGGGTCAGGAGTCTGGG
14343 T G S ATACTGCTCATTCACAAATGACAGCTCATACATATTATCTCACATGTTCCCTGGGTCAGGAGTCTGGG
TCTGGTCTAGGAGTGTGCACTACTATCTATTGGTTACATACTGCTCATTCACAAATGACA[AG]CTCATACATATTATCTCACATGTTCCCTGGGTCAGGAGTC
14343 IS [AG] TGGGCACAACTTAGTTGGGC
16298 I A GCGGGGCACCGCGGCCT
16298 P G A ATGACGTGGCAGACGGCTGGTCGGTGAAY
16298 P A A CGCGCCGAGGAGCTGGTCGGTGAAGY
16298 T G A ATGTCTTCACCGACCAGCCGGCCGCGGTGCCCCGCGT
16298 T A A ATGTCTTCACCGACCAGCTGGCCGCGGTGCCCCGCGT

FIGURE 129E



				CGCACCTCCAGCACTGACAGCTGCCGACCGGTCCCCAGCGTCACGCGGGGCACCGCGGCC[GA]GCTGGTCGGTGAAGACATAGTAGTGGACACGGTGGC	
16298	IS	[GA]		CCACCATGAAGTGCTTCTCCGCCG	ABO
16301	I		A	CTGAGGCCACGTCAGGGAGTGTTTCCAGT	
16301	P	G	A	ATGACGTGGCAGACGCCGTGTCCAGAGATY	
16301	P	A	A	CGCGCCGAGGACCGTGTCCAGAGATGY	
16301	T	G	A	GGGGCATCTCTGGACACGGCCTGGAAACACTCCCTGACGTGGCCTCAGGG	
16301	T	A	A	GGGGCATCTCTGGACACGGTCTGGAAACACTCCCTGACGTGGCCTCAGGG	
				CCCCGCCACCAGTGCCTTGGTCAGTGCAGTCCCTGAGGCCACGTCAGGGAGTGTTTCCAG[GA]CCGTGTCCAGAGATGCCCCAGTAGAGGTGACAGGTGA	
16301	IS	[GA]		CTTCACTCTTGGTTCTGGGACCT	
16358	I		A	CCCATATAGTCTGGATTTTCTGCAATCCACCTCAAATGCTTTTA	
16358	P	C	A	ATGACGTGGCAGACCAGAACGAGGCAAGATGY	
16358	P	T	A	CGCGCCGAGGTAGAACGAGGCAAGATGY	
16358	T	C	A	CTTGCATCTTGCCTCGTTCTGAAAAGCATTTGAGGTGGATTGCAGAAAATCCAGACTATATGGGAA	
16358	T	T	A	CTTGCATCTTGCCTCGTTCTAAAAAGCATTTGAGGTGGATTGCAGAAAATCCAGACTATATGGGAA	
				GTGTATTACCACGTGTTCCCATATAGTCTGGATTTTCTGCAATCCACCTCAAATGCTTTT[CT]AGAACGAGGCAAGATGCAAGTGGACAGGAGAGTTACCAT	
16358	IS	[CT]		GAGTGCTGGTCCCCAGGAGCA	
16369	I		S	AGAAGGCAGGCCATAGATGAATAATGTTGATACCATGTCATACCA	
16369	P	A	S	CGCGCCGAGGTGATTTACTCACTATTTGAACAAGY	
16369	P	G	S	ATGACGTGGCAGACCGATTTACTCACTATTTGAACAAY	
16369	T	A	S	GGTTCTTGTTCAAATAGTGAGTAAATCAGGTATGACATGGTATCAACATTATTCATCTATGGCCTGCCTTCTGC	
16369	T	G	S	GGTTCTTGTTCAAATAGTGAGTAAATCGGGTATGACATGGTATCAACATTATTCATCTATGGCCTGCCTTCTGC	
				CCCCAACCTTCCCATCCCTTCTCTGTATTCCATGGTTCTTGTTCAAATAGTGAGTAAATC[AG]GGTATGACATGGTATCAACATTATTCATCTATGGCCTGCC	
16369	IS	[AG]		TTCTGCTATACTGAAGAGCT	
16377	I		S	CTCTGAGCGCTTCTGTTCTCTAGAATAATACGTATGACATATATTT	
16377	P	G	S	ATGACGTGGCAGACCTGATCCCTGAAAGTAACAAY	
16377	P	T	S	CGCGCCGAGGATGATCCCTGAAAGTAACAACY	
16377	T	G	S	AGCTGTTGTTACTTTCAGGGATCAGAATATATGTCATACGTATTATTCTAGAGAACAGAAGCGCTCAGAGCA	
16377	T	T	S	AGCTGTTGTTACTTTCAGGGATCATAATATATGTCATACGTATTATTCTAGAGAACAGAAGCGCTCAGAGCA	
				ATATGCTGGGCACTGTGGTAAGCACTTGGAATTCAGAGCTGTTGTTACTTTCAGGGATCA[GT]AATATATGTCATACGTATTATTCTAGAGAACAGAAGCGCT	
16377	IS	[GT]		CAGAGCAGATAAAATGATTA	
16386	I		S	GCGGGTGCCTGTAACCCCAGCTACTA	
16386	P	G	S	ATGACGTGGCAGACCGGGAGGCTGAGGY	
16386	P	A	S	CGCGCCGAGGTGGGAGGCTGAGGY	
16386	T	G	S	CTTGCCTCAGCCTCCCGAGTAGCTGGGGTTACAGGCACCCGCCA	
16386	T	A	S	CTTGCCTCAGCCTCCCAAGTAGCTGGGGTTACAGGCACCCGCCA	
				TCTCGGCTCACTGCAACCTCTGCCTCCCGGGTTCAAGCGATTCTCTTGCCTCAGCCTCCC[GA]AGTAGCTGGGGTTACAGGCACCCGCCACCACACCCAGC	
16386	IS	[GA]		TAATTTTTGTATTTTTAGTAGA	MULTIPLE SHORT GENE NAMES
16478	I		A	CCATTGACTGGGTTCAGATTGATGCCAATTCCTCAGTA	
16478	P	T	A	CGCGCCGAGGTCTTCATGATGAATTCATTGCY	
16478	P	C	A	ATGACGTGGCAGACCCTTCATGATGAATTCATTGCY	
16478	T	T	A	GTGAGCAATGAATTCATCATGAAGAACTGAGGAATTGGCATCAATCTGAACCCAGTCAATGGCT	
16478	T	C	A	GTGAGCAATGAATTCATCATGAAGGACTGAGGAATTGGCATCAATCTGAACCCAGTCAATGGCT	
				TGTCTGCTTCTTTCATTTTTTAGCCATTGACTGGGTTCAGATTGATGCCAATTCCTCAGT[TC]CTTCATGATGAATTCATTGCTCACAGGCTTGGTGAGTACT	
16478	IS	[TC]		CCTTTTACTAGGAGGTTAAA	
16487	I		A	CCCACGTGTCTCATATTTTTTAAGCCTGTTCTTCCATATTTAATC	
16487	P	T	A	CGCGCCGAGGTGAGTCTAGGAAGCCCY	
16487	P	G	A	ATGACGTGGCAGACGGAGTCTAGGAAGCCCY	
16487	T	T	A	AAGGGGGCTTCCTAGACTCAATTAAATATGGAAGAACAGGCTTAAAAAATATGAGACACGTGGGTT	
16487	T	G	A	AAGGGGGCTTCCTAGACTCCATTAAATATGGAAGAACAGGCTTAAAAAATATGAGACACGTGGGTT	
				TCTTCCATTTGACTAACCCACGTGTCTCATATTTTTTAAGCCTGTTCTTCCATATTTAAT[TG]GAGTCTAGGAAGCCCCCTTCTTCACATGTATGTTACATGTA	
16487	IS	[TG]		CCCCGATTTCATGACTTTA	
16536	I		A	GGGCGGGGTGGGCGCCT	
16536	P	G	A	ATGACGTGGCAGACGCGTCCTCAGGCTCY	
16536	P	A	A	CGCGCCGAGGACGTCCTCAGGCTCY	
16536	T	G	A	CCTGGAGCCTGAGGACGCGGCGCCCACCCCGCCCGG	
16536	T	A	A	CCTGGAGCCTGAGGACGTGGCGCCCACCCCGCCCGG	
				CCGTCCACCTCGGCCTCCGCGGGGCCGCCCTCCGAGGAGGGCCCGGGCGGGGTGGGCGCC[GA]CGTCCTCAGGCTCCAGGCTGGGAGGAGAGAGCGT	
16536	IS	[GA]		TGGAGGCGCGGAGGCTGCCCACGGCC	
16555	I		S	CCTTCGACCCCAAGTTCATCACCTACCCCTTCC	
16555	P	C	S	ATGACGTGGCAGACGACCAGAACAGGTGAGAY	
16555	P	A	S	CGCGCCGAGGTACCAGAACAGGTGAGACY	
16555	T	C	S	CTTAGTCTCACCTGTTCTGGTCGAAGGGGTAGGTGATGAACTTGGGGTCGAAGGGG	
16555	T	A	S	CTTAGTCTCACCTGTTCTGGTAGAAGGGGTAGGTGATGAACTTGGGGTCGAAGGGG	
				TGCCTTCAAGGAACTCATACCTGAGTAGTTTTCCCATTCCTTAGTCTCACCTGTTCTGGT[CA]GAAGGGGTAGGTGATGAACTTGGGGTCGAAGGGGATATC	
16555	IS	[CA]		AGGGAGGCTATTGCAGTACTT	
16558	I		A	TGGGGAGGGCCCCCTCTGATTCCCC	
16558	P	G	A	ATGACGTGGCAGACGCTGCCTTCGCTCY	
16558	P	T	A	CGCGCCGAGGTCTGCCTTCGCTCCY	
16558	T	G	A	GGCGGGAGCGAAGGCAGCGGGAATCAGAGGGGCCCTCCCCACT	
16558	T	T	A	GGCGGGAGCGAAGGCAGAGGGAATCAGAGGGGCCCTCCCCACT	
				CCTGGGTCCCCCCAGCTGCCCCTTGGGCTGTGTGCAGTGGGGAGGGCCCCTCTGATTCCC[GT]CTGCCTTCGCTCCCGCCAGAACCGGATGGAGGAGAG	
16558	IS	[GT]		CAAAGCCCTGTTCCGGACTATCAT	
16685	I		A	TGGCACAACGCATTCTGGCTGAGTATAAGGATAAAGTTTA	
16685	P	T	A	CGCGCCGAGGTTGACTGCTATATTTAAAGAAGTCTY	
16685	P	C	A	ATGACGTGGCAGACCTGACTGCTATATTTAAAGAAGTCY	
16685	T	T	A	GGATAGACTTCTTTAAATATAGCAGTCAAAAACTTTATCCTTATACTCAGCCAGAATGCGTTGTGCCAGA	
16685	T	C	A	GGATAGACTTCTTTAAATATAGCAGTCAGAAACTTTATCCTTATACTCAGCCAGAATGCGTTGTGCCAGA	
				CCATATTTTTCCTGAGCTTTCTGGCACAACGCATTCTGGCTGAGTATAAGGATAAAGTTT[TC]TGACTGCTATATTTAAAGAAGTCTATCCATGAGCTTGAGAT	
16685	IS	[TC]		TTTGCGGAATTCTCAGATG	
16689	I		A	CTTTCCTCTTTCTTTTCACAGGGGTGAGCCT	
16689	P	A	A	CGCGCCGAGGACCACGCCTGGGY	
16689	P	C	A	ATGACGTGGCAGACCCCACGCCTGGGY	
16689	T	A	A	ATGGCCCAGGCGTGGTGGCTCACCCCTGTGAAAAGAAAGAGGAAAGAA	
16689	T	C	A	ATGGCCCAGGCGTGGGGGCTCACCCCTGTGAAAAGAAAGAGGAAAGAA	
				TTCCTGAAGTCTTCATAGGTTTCTTTTCTTCTTTCCTCTTTCTTTTCACAGGGGTGAGCC[AC]CCACGCCTGGGCCATAGGTTTACTTTGAAGGGCAAAAAGC	
16689	IS	[AC]		TCTCCTTCATTCCCTATATT	
16694	I		A	TGGCACCTCACCTCCTGGGCCTCA	
16694	P	T	A	CGCGCCGAGGTACCTCTTGCTCTCAGGY	
16694	P	C	A	ATGACGTGGCAGACCACCTCTTGCTCTCAGGY	
16694	T	T	A	GGGTCCTGAGAGCAAGAGGTAGAGGCCCAGGAGGTGAGGTGCCACA	
16694	T	C	A	GGGTCCTGAGAGCAAGAGGTGGAGGCCCAGGAGGTGAGGTGCCACA	
				TCCCAGAGGAAATGAAGGCCTGGGTGCGTCCTGGCTGTGGCACCTCACCTCCTGGGCCTC[TC]ACCTCTTGCTCTCAGGACCCTTGTGGGGATGAGAGAG	
16694	IS	[TC]		GGGCGTGGAAGGGCCTTAGGCCC	
16713	I		S	GAAATTCCACAATCTCTCTTGTGACTTTCATTAACTATCTTCAGATTTT	
16713	P	C	S	ATGACGTGGCAGACGCCCATCAAGAAATTAGGGY	
16713	P	T	S	CGCGCCGAGGACCCATCAAGAAATTAGGGY	
16713	T	C	S	AGCTCCCTAATTTCTTGATGGGCAAATCTGAAGATAGTTAATGAAAGTCACAAGAGAGATTGTGGAATTTCTC	
16713	T	T	S	AGCTCCCTAATTTCTTGATGGGTAAATCTGAAGATAGTTAATGAAAGTCACAAGAGAGATTGTGGAATTTCTC	

FIGURE 129E

				CACTCATATTATACTAGAAAATTTTGAGTCAGGTGCCCAGCTCCCTAATTTCTTGATGGG[CT]AAATCTGAAGATAGTTAATGAAAGTCACAAGAGAGATTGT
16713	IS	[CT]		GGAATTTCTCTCAATTAATG
16736	I		S	TGCACAGTGCCTGCTCCTCCCTCCT
16736	P	T	S	CGCGCCGAGGATTCTTGGCCTGGTGAY
16736	P	G	S	ATGACGTGGCAGACCTTCTTGGCCTGGTGAY
16736	T	T	S	GTGCTCACCAGGCCAAGAATGGAGGGAGGAGCAGGCACTGTGCACA
16736	T	G	S	GTGCTCACCAGGCCAAGAAGGGAGGGAGGAGCAGGCACTGTGCACA
				AATGCTATGGCTACCCTTGGATTAGATTACACAGAAGGGTGGTGCTCACCAGGCCAAGAA[TG]GGAGGGAGGAGCAGGCACTGTGCACAGTTAGCAAAGG
16736	IS	[TG]		CCTGGAGTGAAGAATGTTGGGAA
16741	I		A	CCTGAGGGCCGCTGGGGCCT
16741	P	A	A	CGCGCCGAGGATGCAGGAAAGCAGGAY
16741	P	C	A	ATGACGTGGCAGACCTGCAGGAAAGCAGGY
16741	T	A	A	AAGGTCCTGCTTTCCTGCATGGCCCCAGCGGCCCTCAGGGA
16741	T	C	A	AAGGTCCTGCTTTCCTGCAGGGCCCCAGCGGCCCTCAGGGA
				TTAAGGTGGCAGATGGGATCCTGATGTTTCTGGGAGGGCTCCCTGAGGGCCGCTGGGGCC[AC]TGCAGGAAAGCAGGACCTTGGTATAGGCCTGAGAAGT
16741	IS	[AC]		TAGGGTTGGCTGGGAGCAGAGGA
16744	I		S	CCCTCCCACGGAGGCCCCGT
16744	P	G	S	ATGACGTGGCAGACCGGTCCCAACACCGY
16744	P	T	S	CGCGCCGAGGAGGTCCCAACACCGY
16744	T	G	S	TTTCCGGTGTTGGGACCGCGGGGCCTCCGTGGGAGGGGC
16744	T	T	S	TTTCCGGTGTTGGGACCTCGGGGCCTCCGTGGGAGGGGC
				TGGTGGATGTGTTATACAACGAAGAGAAGCAGAAAATATATCCTTTCCGGTGTTGGGACC[GT]CGGGGCCTCCGTGGGAGGGGCTGGGGCCCTGGGTCCG
16744	IS	[GT]		CCTGCCTCGAGGCCTGCTCCTCT
16831	I		S	CCACGGTTCCCTTTGGGCCCCTT
16831	P	T	S	CGCGCCGAGGAGGCTCAGGTGTCACY
16831	P	C	S	ATGACGTGGCAGACGGGCTCAGGTGTCAY
16831	T	T	S	GAGAGTGACACCTGAGCCTAGGGGCCCAAAGGGAACCGTGGAC
16831	T	C	S	GAGAGTGACACCTGAGCCCAGGGGCCCAAAGGGAACCGTGGAC
				GAGCTCAGGCCTCAAGGACCAATGGGGGACAGTGAGAGGCCTGAGAGTGACACCTGAGCC[TC]AGGGGCCCAAAGGGAACCGTGGACACCGGGAGGTAT
16831	IS	[TC]		CAGTACCAGTCACCCTGCCCCTCC
16842	I		S	GCCTCTTATCAAATGACTTCTTCCAATCACTTTCTAGAATGTAGAAGATAACTCATCT
16842	P	T	S	CGCGCCGAGGATCTCAGCCAGACTACATTY
16842	P	C	S	ATGACGTGGCAGACGTCTCAGCCAGACTACAY
16842	T	T	S	AGAAAATGTAGTCTGGCTGAGATGATGAGTTATCTTCTACATTCTAGAAAGTGATTGGAAGAAGTCATTTGATAAGAGGCCA
16842	T	C	S	AGAAAATGTAGTCTGGCTGAGACGATGAGTTATCTTCTACATTCTAGAAAGTGATTGGAAGAAGTCATTTGATAAGAGGCCA
				ACCAGGGCTTTATTTACCACTATACATCATCGGGTATTAGAAAATGTAGTCTGGCTGAGA[TC]GATGAGTTATCTTCTACATTCTAGAAAGTGATTGGAAGAA
16842	IS	[TC]		GTCATTTGATAAGAGGCCAT
16917	I		S	GGCTCTCCTTTGGGTCAATGATCCCCCCT
16917	P	C	S	ATGACGTGGCAGACGGTTGCGATCTGTGCY
16917	P	T	S	CGCGCCGAGGAGTTGCGATCTGTGCTY
16917	T	C	S	TAGAAGCACAGATCGCAACCGGGGGGATCATTGACCCAAAGGAGAGCCAT
16917	T	T	S	TAGAAGCACAGATCGCAACTGGGGGGATCATTGACCCAAAGGAGAGCCAT
				GAATAAGGAACTCATCGAAAAGGGCCACGGTATTCGCTTATTAGAAGCACAGATCGCAAC[CT]GGGGGGATCATTGACCCAAAGGAGAGCCATCGTTTACC
16917	IS	[CT]		AGTTGACATAGCATATAAGAGG
16939	I		S	GAGTCAGAGGTCACACAGGCCCCCAACT
16939	P	C	S	ATGACGTGGCAGACGTGACACAAGCTCTGGY
16939	P	T	S	CGCGCCGAGGATGACACAAGCTCTGGY
16939	T	C	S	GGTGCCAGAGCTTGTGTCACGTTGGGGGCCTGTGTGACCTCTGACTCCT
16939	T	T	S	GGTGCCAGAGCTTGTGTCATGTTGGGGGCCTGTGTGACCTCTGACTCCT
				TGACCGCAGCCTTCCAGTAGCTCCTGGGAGGCACAGTGGTGGGTGCCAGAGCTTGTGTCA[CT]GTTGGGGGCCTGTGTGACCTCTGACTCCTCATGTTAG
16939	IS	[CT]		CATTTGGAATGTTCAGTGGCTTC
16951	I		S	GAGTAGGCCTCAGACGCTGCGTGTGTAAAAAGA
16951	P	G	S	ATGACGTGGCAGACCGCCCAGCCTGTY
16951	P	A	S	CGCGCCGAGGTGCCCAGCCTGTTCY
16951	T	G	S	GTGGGAACAGGCTGGGCGCTTTTTACACACGCAGCGTCTGAGGCCTACTCCA
16951	T	A	S	GTGGGAACAGGCTGGGCACTTTTTACACACGCAGCGTCTGAGGCCTACTCCA
				CAGCAGAGCCACGTGCTGCCAGCCTGACCCTACTGCTCAGAATGTGGGAACAGGCTGGGC[GA]CTTTTTACACACGCAGCGTCTGAGGCCTACTCCAGAC
16951	IS	[GA]		CCTCCGAGGCAGAGGGATCTCCA
16991	I		S	AGATGCTGTCGTTTCTGAGGTTGTTTTGAGTAAAGTAATGTCCTC
16991	P	A	S	CGCGCCGAGGTAGGCTGTGAGTCTAACATAY
16991	P	C	S	ATGACGTGGCAGACGAGGCTGTGAGTCTAACAY
16991	T	A	S	AATTTATGTTAGACTCACAGCCTAAGGACATTACTTTACTCAAAACAACCTCAGAAACGACAGCATCTGC
16991	T	C	S	AATTTATGTTAGACTCACAGCCTCAGGACATTACTTTACTCAAAACAACCTCAGAAACGACAGCATCTGC
				GATTTTATGATGTTGGGGAGCTGTGTGATCCCAGGAGAATTTATGTTAGACTCACAGCCT[AC]AGGACATTACTTTACTCAAAACAACCTCAGAAACGACAGC
16991	IS	[AC]		ATCTGCTTCTGTGCCAAGGA
16993	I		S	CCCAACAGAGGGTCCCCATTCAGCAGGA
16993	P	G	S	ATGACGTGGCAGACCTCATCCACACCTGGGY
16993	P	A	S	CGCGCCGAGGTTCATCCACACCTGGGY
16993	T	G	S	AAAACCCAGGTGTGGATGAGCCTGCTGAATGGGGACCCTCTGTTGGGGA
16993	T	A	S	AAAACCCAGGTGTGGATGAACCTGCTGAATGGGGACCCTCTGTTGGGGA
				GGGAGGGGGAGACGGATGGGACAGTTCTGCCATGGGGCTCAAAAACCCAGGTGTGGATGA[GA]CCTGCTGAATGGGGACCCTCTGTTGGGGACAGCTCG
16993	IS	[GA]		GAATGCCATTTTGTTGAGGATCCA
16997	I		S	GGCCGGTTGATGATAGCAGAAGAGGATTCCTCAAA
16997	P	A	S	CGCGCCGAGGTTTGCTTCCTACTGACAGY
16997	P	G	S	ATGACGTGGCAGACCTTGCTTCCTACTGACAGY
16997	T	A	S	CATGCTGTCAGTAGGAAGCAAATTGAGGAATCCTCTTCTGCTATCATCAACCGGCCAA
16997	T	G	S	CATGCTGTCAGTAGGAAGCAAGTTGAGGAATCCTCTTCTGCTATCATCAACCGGCCAA
				CAGAGTTATCCTTTTATGAACGTTATAAGATCAGACTCTCATGCTGTCAGTAGGAAGCAA[AG]TTGAGGAATCCTCTTCTGCTATCATCAACCGGCCAATTAC
16997	IS	[AG]		TTACTGTGATTTGCCCTTTG
17010	I		S	GATCAAAGGAGAGGAGAATCAGGAACCTCAAGACCTGAA
17010	P	A	S	CGCGCCGAGGTCTACGATGAACAGAGCTAY
17010	P	G	S	ATGACGTGGCAGACCCTACGATGAACAGAGCTY
17010	T	A	S	TTTGTAGCTCTGTTCATCGTAGATCAGGTCTTGAGGTTCCTGATTCTCCTCTCCTTTGATCTG
17010	T	G	S	TTTGTAGCTCTGTTCATCGTAGGTCAGGTCTTGAGGTTCCTGATTCTCCTCTCCTTTGATCTG
				GCCCATGTGGGGAACAGAAGTTTTGTCACCTGGGTAACTTTGTAGCTCTGTTCATCGTAG[AG]TCAGGTCTTGAGGTTCCTGATTCTCCTCTCCTTTGATCT
17010	IS	[AG]		GAAAGCACTTTAGTTGCATCA
17019	I		S	ACCTGGCCTGCAAACATGTTGATAAGGCTTGAATT
17019	P	T	S	CGCGCCGAGGATCAAGCCACAAGGTGAY
17019	P	C	S	ATGACGTGGCAGACGTCAAGCCACAAGGTGY
17019	T	T	S	AAGTTCACCTTGTGGCTTGATATTCAAGCCTTATCAACATGTTTGCAGGCCAGGTGC
17019	T	C	S	AAGTTCACCTTGTGGCTTGACATTCAAGCCTTATCAACATGTTTGCAGGCCAGGTGC
				CTGGCCTGCCAATCCACGGCTCCCCAGGCTCCTCAGGATCAAGTTCACCTTGTGGCTTGA[TC]ATTCAAGCCTTATCAACATGTTTGCAGGCCAGGTGCGG
17019	IS	[TC]		TGGCTCACTCCTGTAATCCCAG
17041	I		S	CCTTTGCCTTAAGGAAAGCTGCCAAAGTGGGAAAATTC
17041	P	A	S	CGCGCCGAGGTAAGCTTAGATTTGATTGGTTTTTY
17041	P	C	S	ATGACGTGGCAGACGAAGCTTAGATTTGATTGGTTTY
17041	T	A	S	GAGCAAAAACCAATCAAATCTAAGCTTAAATTTTCCCACTTTGGCAGCTTTCCTTAAGGCAAAGGCC
17041	T	C	S	GAGCAAAAACCAATCAAATCTAAGCTTCAATTTTCCCACTTTGGCAGCTTTCCTTAAGGCAAAGGCC

DSP

FIGURE 129E

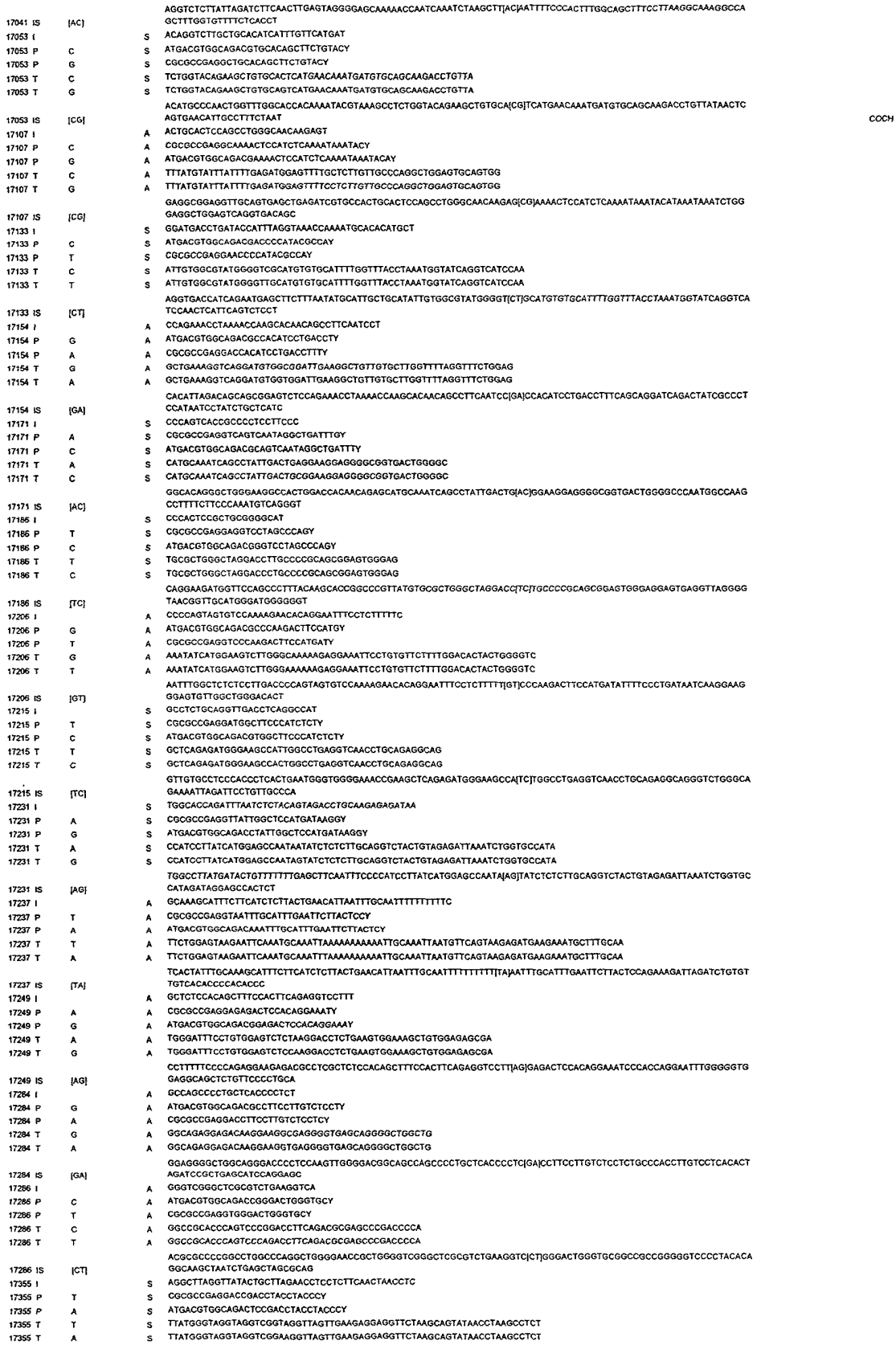


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FIGURE 129E

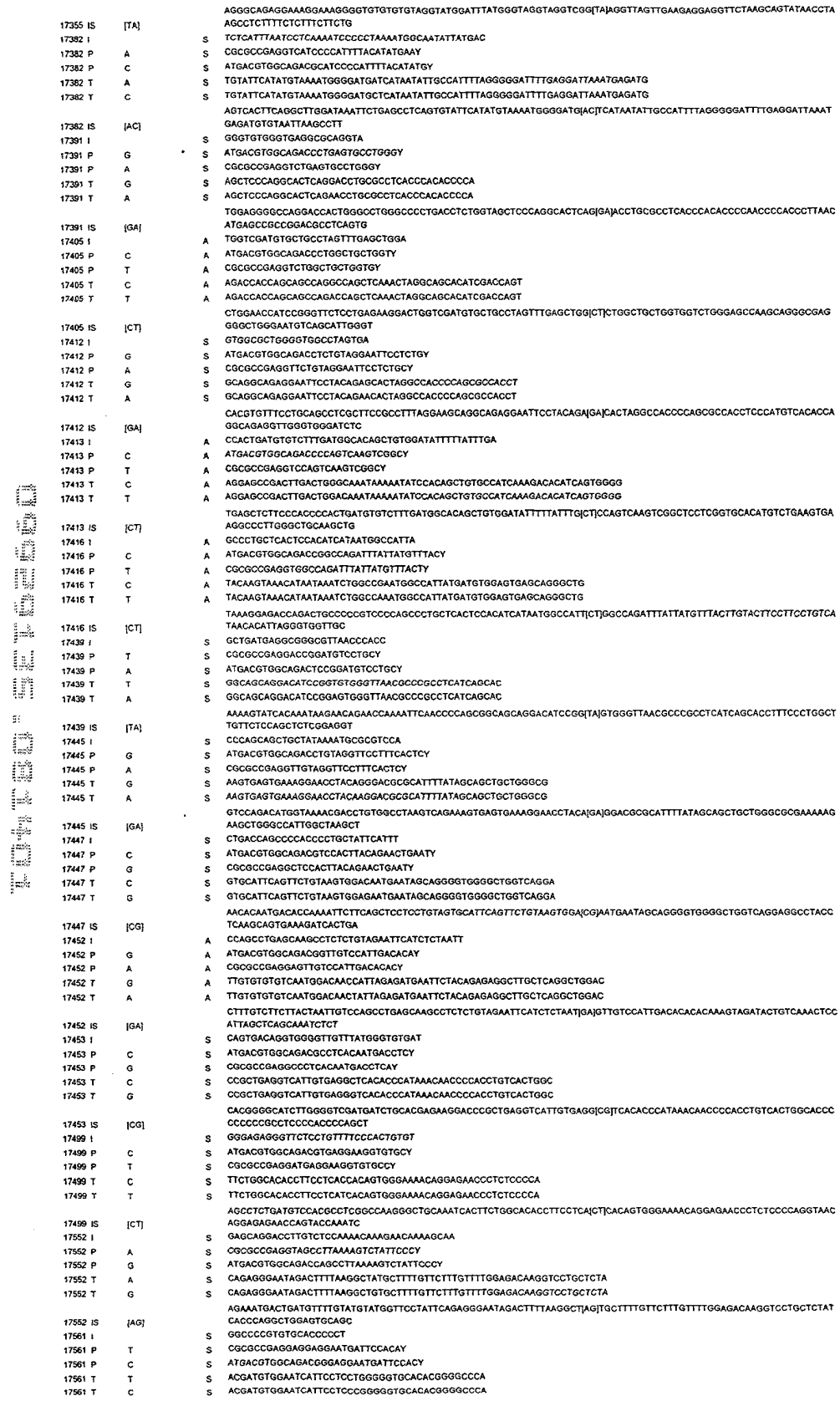
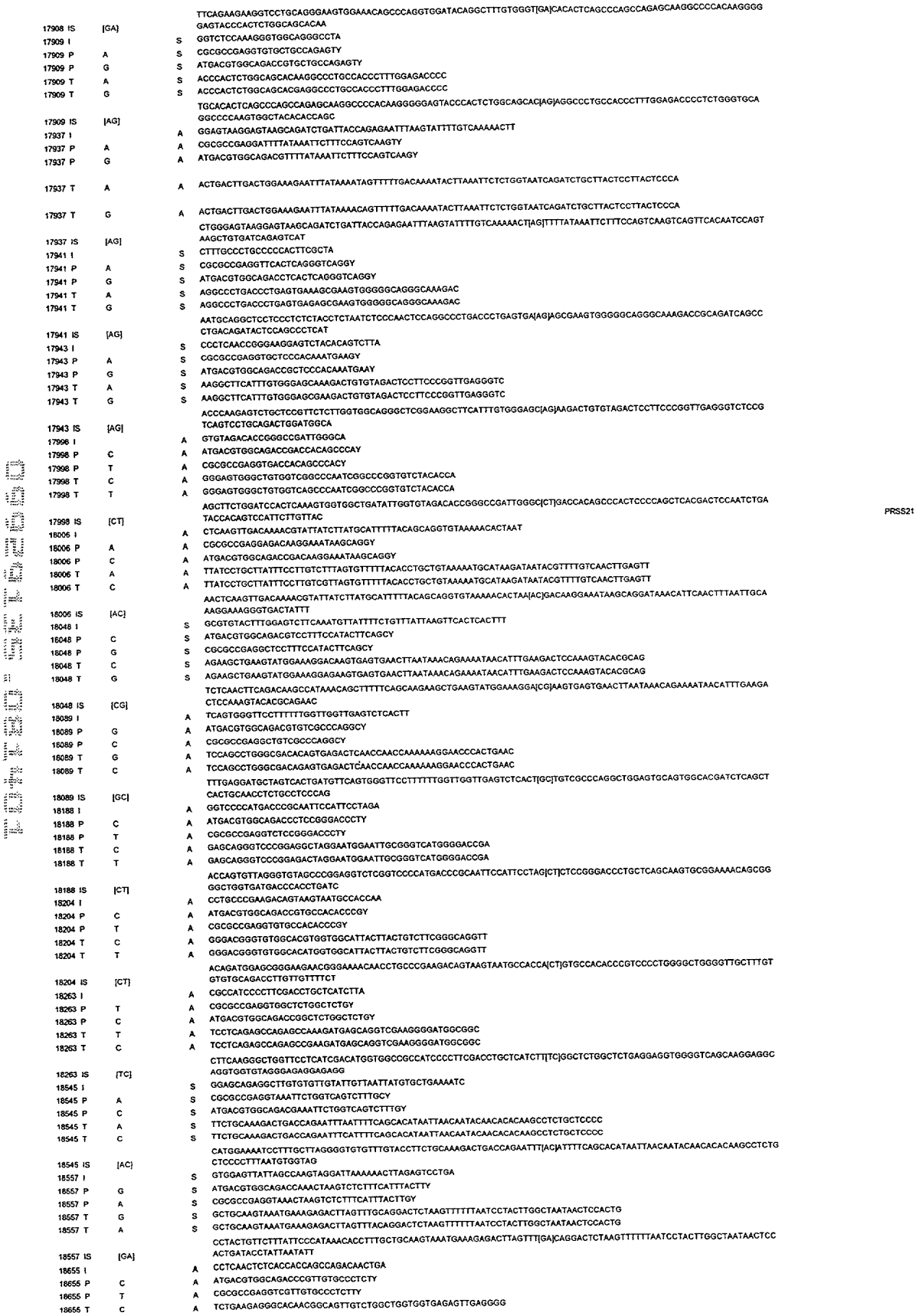

AGGGCAGAGGAAAGGAAAGGGGTGTGTGTGTAGGTATGGATTTATGGGTAGGTAGGTCGG[TA]AGGTTAGTTGAAGAGGAGGTTCTAAGCAGTATAACCTA
17355 IS [TA] AGCCTCTTTTCTCTTTCTTCTG
17382 I S TCTCATTTAATCCTCAAAATCCCCCTAAAATGGCAATATTATGAC
17382 P A S CGCGCCGAGGTCATCCCCATTTTACATATGAAY
17382 P C S ATGACGTGGCAGACGCATCCCCATTTTACATATGY
17382 T A S TGTATTCATATGTAAAATGGGGATGATCATAATATTGCCATTTTAGGGGGATTTTGAGGATTAAATGAGATG
17382 T C S TGTATTCATATGTAAAATGGGGATGCTCATAATATTGCCATTTTAGGGGGATTTTGAGGATTAAATGAGATG
AGTCACTTCAGGCTTGGATAAATTCTGAGCCTCAGTGTATTCATATGTAAAATGGGGATG[AC]TCATAATATTGCCATTTTAGGGGGATTTTGAGGATTAAAT
17382 IS [AC] GAGATGTGTAATTAAGCCTT
17391 I S GGGTGTGGGTGAGGCGCAGGTA
17391 P G S ATGACGTGGCAGACCCTGAGTGCCTGGGY
17391 P A S CGCGCCGAGGTCTGAGTGCCTGGGY
17391 T G S AGCTCCCAGGCACTCAGGACCTGCGCCTCACCCACACCCCA
17391 T A S AGCTCCCAGGCACTCAGAACCTGCGCCTCACCCACACCCCA
TGGAGGGGCCAGGACCACTGGGCCTGGGCCCCTGACCTCTGGTAGCTCCCAGGCACTCAG[GA]ACCTGCGCCTCACCCACACCCCAACCCCACCCTTAAC
17391 IS [GA] ATGAGCCGCCGGACGCCTCAGTG
17405 I A TGGTCGATGTGCTGCCTAGTTTGAGCTGGA
17405 P C A ATGACGTGGCAGACCCTGGCTGCTGGTY
17405 P T A CGCGCCGAGGTCTGGCTGCTGGTGY
17405 T C A AGACCACCAGCAGCCAGGCCAGCTCAAACTAGGCAGCACATCGACCAGT
17405 T T A AGACCACCAGCAGCCAGACCAGCTCAAACTAGGCAGCACATCGACCAGT
CTGGAACCATCCGGGTTCTCCTGAGAAGGACTGGTCGATGTGCTGCCTAGTTTGAGCTGG[CT]CTGGCTGCTGGTGGTCTGGGAGCCAAGCAGGGCGAG
17405 IS [CT] GGGCTGGGAATGTCAGCATTGGGT
17412 I S GTGGCGCTGGGGTGGCCTAGTGA
17412 P G S ATGACGTGGCAGACCTCTGTAGGAATTCCTCTGY
17412 P A S CGCGCCGAGGTTCTGTAGGAATTCCTCTGCY
17412 T G S GCAGGCAGAGGAATTCCTACAGAGCACTAGGCCACCCCAGCGCCACCT
17412 T A S GCAGGCAGAGGAATTCCTACAGAACACTAGGCCACCCCAGCGCCACCT
CACGTGTTTCCTGCAGCCTCGCTTCCGCCTTTAGGAAGCAGGCAGAGGAATTCCTACAGA[GA]CACTAGGCCACCCCAGCGCCACCTCCCATGTCACACCA
17412 IS [GA] GGCAGAGGTTGGGTGGGATCTC
17413 I A CCACTGATGTGTCTTTGATGGCACAGCTGTGGATATTTTTATTTGA
17413 P C A ATGACGTGGCAGACCCCAGTCAAGTCGGCY
17413 P T A CGCGCCGAGGTCCAGTCAAGTCGGCY
17413 T C A AGGAGCCGACTTGACTGGGCAAATAAAAATATCCACAGCTGTGCCATCAAAGACACATCAGTGGGG
17413 T T A AGGAGCCGACTTGACTGGACAAATAAAAATATCCACAGCTGTGCCATCAAAGACACATCAGTGGGG
TGAGCTCTTCCCACCCCACTGATGTGTCTTTGATGGCACAGCTGTGGATATTTTTATTTG[CT]CCAGTCAAGTCGGCTCCTCGGTGCACATGTCTGAAGTGA
17413 IS [CT] AGGCCCTTGGGCTGCAAGCTG
17416 I A GCCCTGCTCACTCCACATCATAATGGCCATTA
17416 P C A ATGACGTGGCAGACCGGCCAGATTTATTATGTTTACY
17416 P T A CGCGCCGAGGTGGCCAGATTTATTATGTTTACTY
17416 T C A TACAAGTAAACATAATAAATCTGGCCGAATGGCCATTATGATGTGGAGTGAGCAGGGCTG
17416 T T A TACAAGTAAACATAATAAATCTGGCCAAATGGCCATTATGATGTGGAGTGAGCAGGGCTG
TAAAGGAGACCAGACTGCCCCCGTCCCCAGCCCTGCTCACTCCACATCATAATGGCCATT[CT]GGCCAGATTTATTATGTTTACTTGTACTTCCTTCCTGTCA
17416 IS [CT] TAACACATTAGGGTGGTTGC
17439 I S GCTGATGAGGCGGGCGTTAACCCACC
17439 P T S CGCGCCGAGGACCGGATGTCCTGCY
17439 P A S ATGACGTGGCAGACTCCGGATGTCCTGCY
17439 T T S GGCAGCAGGACATCCGGTGTGGGTTAACGCCCGCCTCATCAGCAC
17439 T A S GGCAGCAGGACATCCGGAGTGGGTTAACGCCCGCCTCATCAGCAC
AAAAGTATCACAAATAAGAACAGAACCAAAATTCAACCCCAGCGGCAGCAGGACATCCGG[TA]GTGGGTTAACGCCCGCCTCATCAGCACCTTTCCCTGGCT
17439 IS [TA] TGTTCTCCAGCTCTCGGAGGT
17445 I S CCCAGCAGCTGCTATAAAATGCGCGTCCA
17445 P G S ATGACGTGGCAGACCTGTAGGTTCCTTTCACTCY
17445 P A S CGCGCCGAGGTTGTAGGTTCCTTTCACTCY
17445 T G S AAGTGAGTGAAAGGAACCTACAGGGACGCGCATTTTATAGCAGCTGCTGGGCG
17445 T A S AAGTGAGTGAAAGGAACCTACAAGGACGCGCATTTTATAGCAGCTGCTGGGCG
GTCCAGACATGGTAAAACGACCTGTGGCCTAAGTCAGAAAGTGAGTGAAAGGAACCTACA[GA]GGACGCGCATTTTATAGCAGCTGCTGGGCGCGAAAAAG
17445 IS [GA] AAGCTGGGCCATTGGCTAAGCT
17447 I S CTGACCAGCCCCACCCCTGCTATTCATTT
17447 P C S ATGACGTGGCAGACGTCCACTTACAGAACTGAATY
17447 P G S CGCGCCGAGGCTCCACTTACAGAACTGAATY
17447 T C S GTGCATTCAGTTCTGTAAGTGGAGAATGAATAGCAGGGGTGGGGCTGGTCAGGA
17447 T G S GTGCATTCAGTTCTGTAAGTGGAGAATGAATAGCAGGGGTGGGGCTGGTCAGGA
AACACAATGACACCAAAATTCTTCAGCTCCTCCTGTAGTGCATTCAGTTCTGTAAGTGGA[CG]AATGAATAGCAGGGGTGGGGCTGGTCAGGAGGCCTACC
17447 IS [CG] TCAAGCAGTGAAAGATCACTGA
17452 I A CCAGCCTGAGCAAGCCTCTCTGTAGAATTCATCTCTAATT
17452 P G A ATGACGTGGCAGACGGTTGTCCATTGACACAY
17452 P A A CGCGCCGAGGAGTTGTCCATTGACACACY
17452 T G A TTGTGTGTGTCAATGGACAACCATTAGAGATGAATTCTACAGAGAGGCTTGCTCAGGCTGGAC
17452 T A A TTGTGTGTGTCAATGGACAACTATTAGAGATGAATTCTACAGAGAGGCTTGCTCAGGCTGGAC
CTTTGTCTTCTTACTAATTGTCCAGCCTGAGCAAGCCTCTCTGTAGAATTCATCTCTAAT[GA]GTTGTCCATTGACACACACAAAGTAGATACTGTCAAACTCC
17452 IS [GA] ATTAGCTCAGCAAATCTCT
17453 I S CAGTGACAGGTGGGGTTGTTTATGGGTGTGAT
17453 P C S ATGACGTGGCAGACGCCTCACAATGACCTCY
17453 P G S CGCGCCGAGGCCCTCACAATGACCTCAY
17453 T C S CCGCTGAGGTCATTGTGAGGCTCACACCCATAAACAACCCCACCTGTCACTGGC
17453 T G S CCGCTGAGGTCATTGTGAGGGTCACACCCATAAACAACCCCACCTGTCACTGGC
CACGGGGCATCTTGGGGTCGATGATCTGCACGAGAAGGACCCGCTGAGGTCATTGTGAGG[CG]TCACACCCATAAACAACCCCACCTGTCACTGGCACCC
17453 IS [CG] CCCCCCGCCTCCCCACCCCAGCT
17499 I S GGGAGAGGGTTCTCCTGTTTTCCCACTGTGT
17499 P C S ATGACGTGGCAGACGTGAGGAAGGTGTGCY
17499 P T S CGCGCCGAGGATGAGGAAGGTGTGCCY
17499 T C S TTCTGGCACACCTTCCTCACCACAGTGGGAAAACAGGAGAACCCTCTCCCCA
17499 T T S TTCTGGCACACCTTCCTCATCACAGTGGGAAAACAGGAGAACCCTCTCCCCA
AGCCTCTGATGTCCACGCCTCGGCCAAGGGCTGCAAATCACTTCTGGCACACCTTCCTCA[CT]CACAGTGGGAAAACAGGAGAACCCTCTCCCCAGGTAAC
17499 IS [CT] AGGAGAGAACCAGTACCAAATC
17552 I S GAGCAGGACCTTGTCTCCAAAACAAAGAACAAAAGCAA
17552 P A S CGCGCCGAGGTAGCCTTAAAAGTCTATTCCCY
17552 P G S ATGACGTGGCAGACCAGCCTTAAAAGTCTATTCCCY
17552 T A S CAGAGGGAATAGACTTTTAAGGCTATGCTTTTGTTCTTTGTTTTGGAGACAAGGTCCTGCTCTA
17552 T G S CAGAGGGAATAGACTTTTAAGGCTGTGCTTTTGTTCTTTGTTTTGGAGACAAGGTCCTGCTCTA
AGAAATGACTGATGTTTTGTATGTATGGTTCCTATTCAGAGGGAATAGACTTTTAAGGCT[AG]TGCTTTTGTTCTTTGTTTTGGAGACAAGGTCCTGCTCTAT
17552 IS [AG] CACCCAGGCTGGAGTGCAGC
17561 I S GGCCCCGTGTGCACCCCCT
17561 P T S CGCGCCGAGGAGGAGGAATGATTCCACAY
17561 P C S ATGACGTGGCAGACGGGAGGAATGATTCCACY
17561 T T S ACGATGTGGAATCATTCCTCCTGGGGGTGCACACGGGGCCCA
17561 T C S ACGATGTGGAATCATTCCTCCCGGGGGTGCACACGGGGCCCA

FIGURE 129E

				CAGACACAACATGAGCAAAAGCCATTCCTGCATCCGGGAACGATGTGGAATCATTCCTCC[TC]GGGGGTGCACACGGGGCCCAGGGCAGGGTGGAGGGT	
17561	IS	[TC]		GCACAGTGGTGAGAAAGGCTGCAG	
17566	I		S	TCCTCACCACTATCTTTGGAAAGGAGACATAACACTTATTTCCAAATTCATT	
17566	P	C	S	ATGACGTGGCAGACGCTTTGAACATACTTGTACAGY	
17566	P	T	S	CGCGCCGAGGACTTTGAACATACTTGTACAGAY	
17566	T	C	S	GTTATCTGTACAAGTATGTTCAAAGCATGAATTTGGAAATAAGTGTTATGTCTCCTTTCCAAAGATAGTGGTGAGGAAA	
17566	T	T	S	GTTATCTGTACAAGTATGTTCAAAGTATGAATTTGGAAATAAGTGTTATGTCTCCTTTCCAAAGATAGTGGTGAGGAAA	
				CGAGTGCGTCTAAAAGGCATAAAATATGCCTTCTTGTTATCTGTACAAGTATGTTCAAAG[CT]ATGAATTTGGAAATAAGTGTTATGTCTCCTTTCCAAAGATA	
17566	IS	[CT]		GTGGTGAGGAAAATTTCAG	
17572	I		A	AGCCCACATTTCATTCTACGGTAGGTTGAAAACAGAAAACACA	
17572	P	T	A	CGCGCCGAGGTGGTCATTCACCATGCY	
17572	P	C	A	ATGACGTGGCAGACCGGTCATTCACCATGCY	
17572	T	T	A	CTATGCATGGTGAATGACCAGTGTTTTCTGTTTTCAACCTACCGTAGAATGAAATGTGGGCTCC	
17572	T	C	A	CTATGCATGGTGAATGACCGGTGTTTTCTGTTTTCAACCTACCGTAGAATGAAATGTGGGCTCC	
				GGGGCAAGGTGCTGCTGGAGCCCACATTTCATTCTACGGTAGGTTGAAAACAGAAAACAC[TC]GGTCATTCACCATGCATAGTTTGAGAAGCATTGCTTCCT	
17572	IS	[TC]		AAACCATCATGCTATATTGCC	
17577	I		A	GCCCATGTGAATGAGGGCTTCTCTATGATTTTAAAGCTTGAC	
17577	P	T	A	CGCGCCGAGGTGAATGTGCTTCAAATAGACTY	
17577	P	G	A	ATGACGTGGCAGACGGAATGTGCTTCAAATAGACY	
17577	T	T	A	GCAAAGTCTATTTGAAGCACATTCATCAAGCTTTAAAATCATAGAGAAGCCCTCATTCACATGGGCAT	
17577	T	G	A	GCAAAGTCTATTTGAAGCACATTCCTCAAGCTTTAAAATCATAGAGAAGCCCTCATTCACATGGGCAT	
				TTGAGCTGGCTAGAAGGATGCCCATGTGAATGAGGGCTTCTCTATGATTTTAAAGCTTGA[TG]GAATGTGCTTCAAATAGACTTTGCTAACTGTCTTTTCTAA	
17577	IS	[TG]		TGGATCTCCTGATGGCTCTA	
17578	I		A	TCTCTCCATAGTGCTCAATCCACCTCTGCCCT	
17578	P	A	A	CGCGCCGAGGACTTAAGATGTTATGGATGCAY	
17578	P	G	A	ATGACGTGGCAGACGCTTAAGATGTTATGGATGCY	
17578	T	A	A	CTCTTGCATCCATAACATCTTAAGTGGGCAGAGGTGGATTGAGCACTATGGAGAGATT	
17578	T	G	A	CTCTTGCATCCATAACATCTTAAGCGGGCAGAGGTGGATTGAGCACTATGGAGAGATT	
				GGAATCATGCAGGTTCTTGATGACAATCTCTCCATAGTGCTCAATCCACCTCTGCCC[AG]CTTAAGATGTTATGGATGCAAGAGGTCACTTTGTTCCACT	
17578	IS	[AG]		CAAAATGATCCCCAAAACTA	
17620	I		A	CGGTGCCCGGGCCCGCTTACT	
17620	P	C	A	CGCGCCGAGGCTGCACCGCTTGCY	
17620	P	G	A	ATGACGTGGCAGACGTGCACCGCTTGCY	
17620	T	C	A	CGGAGCAAGCGGTGCAGGTAAGCGGGCCCGGGCACCGCT	
17620	T	G	A	CGGAGCAAGCGGTGCACGTAAGCGGGCCCGGGCACCGCT	
				TGCCGAGCCGGGAGGGCCGCAGGGGCCCTGAGATGCCGAGCGGTGCCCGGGCCCGCTTAC[CG]TGCACCGCTTGCTCCGAGCCGCGGGGTCCGCCTG	
17620	IS	[CG]		CTAGGCCTGCGGAAAACGTCCTAGCG	ITGB8
17628	I		A	GGGGAATTGTACACATAGTAACCCAGCCTGTTCTGCT	
17628	P	A	A	CGCGCCGAGGATCATAAGGCTGCTGCY	
17628	P	C	A	ATGACGTGGCAGACCTCATAAGGCTGCTGCY	
17628	T	A	A	TGATGCAGCAGCCTTATGATGCAGAACAGGCTGGGTTACTATGTGTACAATTCCCCAG	
17628	T	C	A	TGATGCAGCAGCCTTATGAGGCAGAACAGGCTGGGTTACTATGTGTACAATTCCCCAG	
				AACATAATTTCCCACATCTGAGCTGGGGAATTGTACACATAGTAACCCAGCCTGTTCTGC[AC]TCATAAGGCTGCTGCATCAAATCAATGCTTTATTCTAATC	
17628	IS	[AC]		AAGTTCAGCTTTCATGGACT	
17659	I		S	GCCCCCTGGGAACTGGGGGTGA	
17659	P	G	S	ATGACGTGGCAGACCGGGAGTTCTCCCTCY	
17659	P	A	S	CGCGCCGAGGTGGGAGTTCTCCCTCTY	
17659	T	G	S	CCCCAGAGGGAGAACTCCCGCACCCCCAGTTCCCAGGGGGCCT	
17659	T	A	S	CCCCAGAGGGAGAACTCCCACACCCCCAGTTCCCAGGGGGCCT	
				TTCATAGCCTAGAAGTCTTCCTAGTAGTCAGATTTTCTGTCCCCCAGAGGGAGAACTCCC[GA]CACCCCCAGTTCCCAGGGGGCCTGGTGTTTGAGGAGCT	
17659	IS	[GA]		GCATCAAGCTGCATCTTCTTAC	ZNF179
17764	I		A	GCTTTCCACACGTGTGCCTCTCACCTCACT	
17764	P	A	A	CGCGCCGAGGAGTGGTTGCCCTGTY	
17764	P	G	A	ATGACGTGGCAGACGGTGGTTGCCCTGTY	
17764	T	A	A	TAGCACAGGGCAACCACTGTGAGGTGAGAGGCACACGTGTGGAAAGCTT	
17764	T	G	A	TAGCACAGGGCAACCACCGTGAGGTGAGAGGCACACGTGTGGAAAGCTT	
				AAAGATCCAGTCCAGAGAAGGAAGAAAGAAAGCTTTCCACACGTGTGCCTCTCACCTCAC[AG]GTGGTTGCCCTGTGCTATGGTGTGGCCATTTTCACTTAC	
17764	IS	[AG]		ATCCAGCCCCACTCCAGTCCC	OR2F1
17780	I		A	GCTGGAGGGACAGGGTTAGGAAATGTTTTCCGAAT	
17780	P	A	A	CGCGCCGAGGATCTGAATGTAATGAGTTAAATTTGAY	
17780	P	C	A	ATGACGTGGCAGACCTCTGAATGTAATGAGTTAAATTTGAY	
17780	T	A	A	TATTTCAAATTTAACTCATTACATTCAGATTTCGGAAAACATTTCCTAACCCTGTCCCTCCAGCTC	
17780	T	C	A	TATTTCAAATTTAACTCATTACATTCAGAGTTCGGAAAACATTTCCTAACCCTGTCCCTCCAGCTC	
				CTGTTTTCAGCAAGCTTTTGGCGGGAGCTGGAGGGACAGGGTTAGGAAATGTTTTCCGAA[AC]TCTGAATGTAATGAGTTAAATTTGAAATATAAACAGAAA	
17780	IS	[AC]		GCACAGATTGTTCTAGGCAAT	
17827	I		A	TGCGCCCAGCTCACACACCTGGC	
17827	P	T	A	CGCGCCGAGGTGCGCCTCCTCCTY	
17827	P	A	A	ATGACGTGGCAGACAGCGCCTCCTCCTY	
17827	T	T	A	AGGGAGGAGGAGGCGCACCAGGTGTGTGAGCTGGGCGCACA	
17827	T	A	A	AGGGAGGAGGAGGCGCTCCAGGTGTGTGAGCTGGGCGCACA	
				CTTCTTGGGCCCCTGCTCCTTGCAGGGCGTTGGTGGTGTGCGCCCAGCTCACACACCTGG[TA]GCGCCTCCTCCTCCCTCCTGAAGACCGTCCCCTCTGC	
17827	IS	[TA]		ACCCCTCCACCTTCTCTACCTCC	
17845	I		A	GCGCGATGACCGAACGGGCGT	
17845	P	A	A	CGCGCCGAGGATCTTGGTGACCCCAGY	
17845	P	C	A	ATGACGTGGCAGACCTCTTGGTGACCCCAY	
17845	T	A	A	GCTGCTGGGGTCACCAAGATCGCCCGTTCGGTCATCGCGCCA	
17845	T	C	A	GCTGCTGGGGTCACCAAGAGCGCCCGTTCGGTCATCGCGCCA	
				GTGGACAGCATCAGCACAGACACGTGGTGCTCGGCCAGTGGCGCGATGACCGAACGGGCG[AC]TCTTGGTGACCCCAGCAGCCTGCACTGCCGCACCGC	
17845	IS	[AC]		TGTGAGACGACACGTTCAGCACCA	
17848	I		A	CAGGATCTACTAAAGATGACGCAAATGCCGACTGAACA	
17848	P	A	A	CGCGCCGAGGATCTGAAACCCAAAGGACY	
17848	P	C	A	ATGACGTGGCAGACCTCTGAAACCCAAAGGACY	
17848	T	A	A	TCGAGTCCTTTGGGTTTCAGATTGTTCAGTCGGCATTTGCGTCATCTTTAGTAGATCCTGAG	
17848	T	C	A	TCGAGTCCTTTGGGTTTCAGAGTGTTCAGTCGGCATTTGCGTCATCTTTAGTAGATCCTGAG	
				CCCATGGGCTGCTGGTCAACCTCAGGATCTACTAAAGATGACGCAAATGCCGACTGAACA[AC]TCTGAAACCCAAAGGACTCGAGGAGAGACATGTTCTGC	
17848	IS	[AC]		TGAGGAGAGAAAGGTGAGCCAA	ZNF278
17903	I		A	TGGTGACCTCAGGAGAAGCATTGGTGGCA	
17903	P	C	A	ATGACGTGGCAGACCGTGACGTTCTTGAAAGAY	
17903	P	T	A	CGCGCCGAGGTGTGACGTTCTTGAAAGAAY	
17903	T	C	A	CAGCTTCTTTCAAGAACGTCACGGCCACCAATGCTTCTCCTGAGGTCACCACG	
17903	T	T	A	CAGCTTCTTTCAAGAACGTCACAGCCACCAATGCTTCTCCTGAGGTCACCACG	
				ACCCTGCCATCTTCCTCCCTCACATGCTGTCGTGGTGACCTCAGGAGAAGCATTGGTGGC[CT]GTGACGTTCTTGAAAGAAGCTGGGGCACCCCATATCAT	
17903	IS	[CT]		AAGGTGACCCTTCGGGGCTCCT	
17908	I		S	CCTTGCTCTGGCTGGGCTGAGTGTGA	
17908	P	G	S	ATGACGTGGCAGACCACCCACAAAGCCTGY	
17908	P	A	S	CGCGCCGAGGTACCCACAAAGCCTGTY	
17908	T	G	S	GGATACAGGCTTTGTGGGTGCACACTCAGCCCAGCCAGAGCAAGGCC	
17908	T	A	S	GGATACAGGCTTTGTGGGTACACACTCAGCCCAGCCAGAGCAAGGCC	

FIGURE 129E



PRSS21

FIGURE 129E

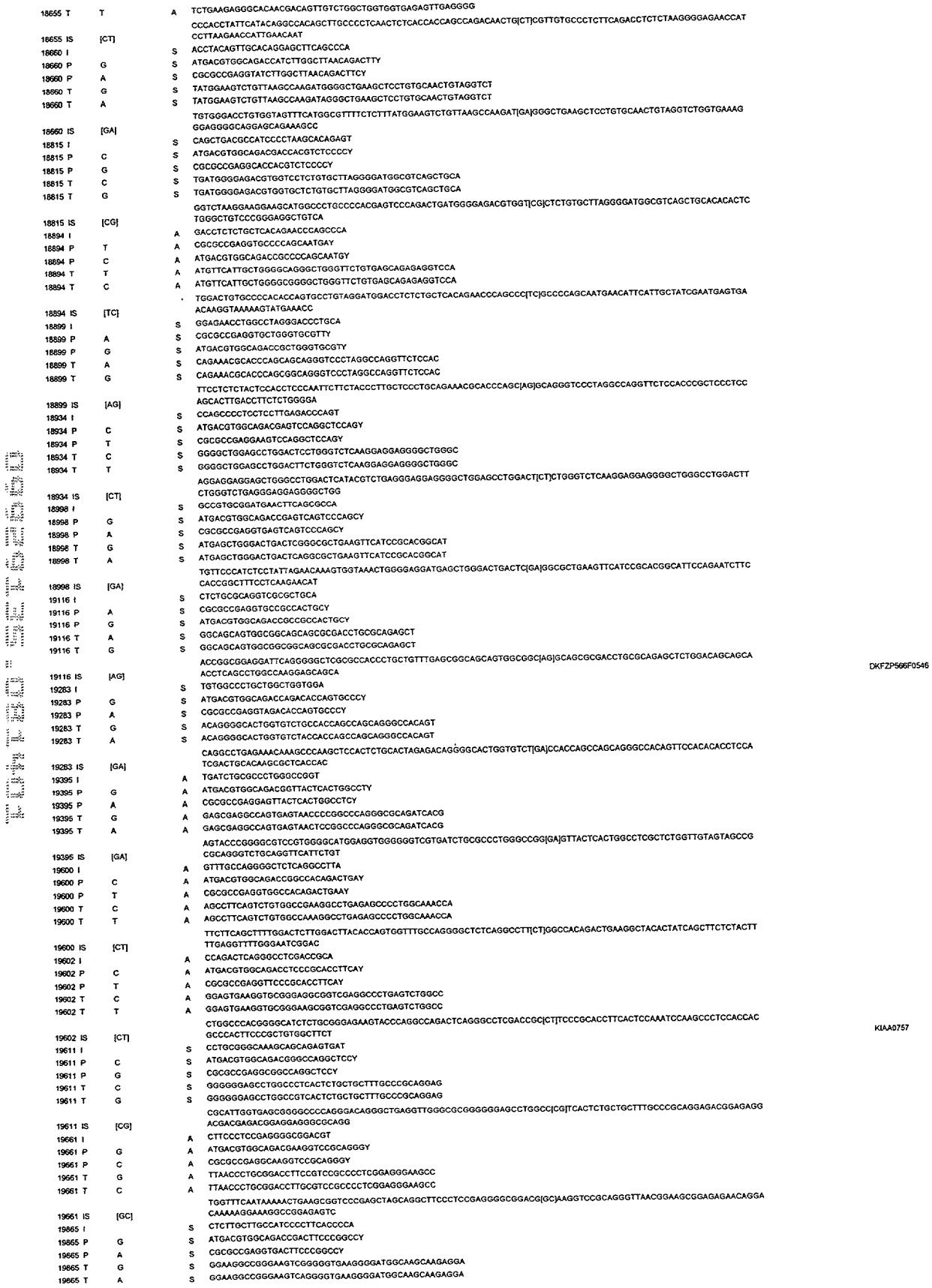

18655 T T A TCTGAAGAGGGCACAACGACAGTTGTCTGGCTGGTGGTGAGAGTTGAGGGG
CCCACCTATTCATACAGGCCACAGCTTGCCCCTCAACTCTCACCACCAGCCAGACAACTG[CT]CGTTGTGCCCTCTTCAGACCTCTCTAAGGGGAGAACCAT
18655 IS [CT] CCTTAAGAACCATTGAACAAT
18660 I S ACCTACAGTTGCACAGGAGCTTCAGCCCA
18660 P G S ATGACGTGGCAGACCATCTTGGCTTAACAGACTTY
18660 P A S CGCGCCGAGGTATCTTGGCTTAACAGACTTC
18660 T G S TATGGAAGTCTGTTAAGCCAAGATGGGGCTGAAGCTCCTGTGCAACTGTAGGTCT
18660 T A S TATGGAAGTCTGTTAAGCCAAGATAGGGCTGAAGCTCCTGTGCAACTGTAGGTCT
TGTGGGACCTGTGGTAGTTTCATGGCGTTTTCTCTTTATGGAAGTCTGTTAAGCCAAGAT[GA]GGGCTGAAGCTCCTGTGCAACTGTAGGTCTGGTGAAAG
18660 IS [GA] GGAGGGGCAGGAGCAGAAAGCC
18815 I S CAGCTGACGCCATCCCCTAAGCACAGAGT
18815 P C S ATGACGTGGCAGACGACCACGTCTCCCCY
18815 P G S CGCGCCGAGGCACCACGTCTCCCCY
18815 T C S TGATGGGGAGACGTGGTCCTCTGTGCTTAGGGGATGGCGTCAGCTGCA
18815 T G S TGATGGGGAGACGTGGTGCTCTGTGCTTAGGGGATGGCGTCAGCTGCA
GGTCTAAGGAAGGAAGCATGGCCCTGCCCCACAGAGTCCCAGACTGATGGGGAGACGTGGT[CG]CTCTGTGCTTAGGGGATGGCGTCAGCTGCACACACTC
18815 IS [CG] TGGGCTGTCCCGGGAGGCTGTCA
18894 I A GACCTCTCTGCTCACAGAACCCAGCCCA
18894 P T A CGCGCCGAGGTGCCCCAGCAATGAY
18894 P C A ATGACGTGGCAGACCGCCCCAGCAATGY
18894 T T A ATGTTCATTGCTGGGGCAGGGCTGGGTTCTGTGAGCAGAGAGGTCCA
18894 T C A ATGTTCATTGCTGGGGCGGGGCTGGGTTCTGTGAGCAGAGAGGTCCA
TGGACTGTGCCCCACACCAGTGCCTGTAGGATGGACCTCTCTGCTCACAGAACCCAGCCC[TC]GCCCCAGCAATGAACATTCATTGCTATCGAATGAGTGA
18894 IS [TC] ACAAGGTAAAAAGTATGAAACC
18899 I S GGAGAACCTGGCCTAGGGACCCTGCA
18899 P A S CGCGCCGAGGTGCTGGGTGCGTTY
18899 P G S ATGACGTGGCAGACCGCTGGGTGCGTY
18899 T A S CAGAAACGCACCCAGCAGCAGGGTCCCTAGGCCAGGTTCTCCAC
18899 T G S CAGAAACGCACCCAGCGGCAGGGTCCCTAGGCCAGGTTCTCCAC
TTCCTCTCTACTCCACCTCCCAATTCTTCTACCCTTGCTCCCTGCAGAAACGCACCCAGC[AG]GCAGGGTCCCTAGGCCAGGTTCTCCACCCGCTCCCTCC
18899 IS [AG] AGCACTTGACCTTCTCTGGGGA
18934 I S CCAGCCCCTCCTCCTTGAGACCCAGT
18934 P C S ATGACGTGGCAGACGAGTCCAGGCTCCAGY
18934 P T S CGCGCCGAGGAAGTCCAGGCTCCAGY
18934 T C S GGGGCTGGAGCCTGGACTCCTGGGTCTCAAGGAGGAGGGGCTGGGC
18934 T T S GGGGCTGGAGCCTGGACTTCTGGGTCTCAAGGAGGAGGGGCTGGGC
AGGAGGAGGAGCTGGGCCTGGACTCATACGTCTGAGGGAGGAGGGGCTGGAGCCTGGACT[CT]CTGGGTCTCAAGGAGGAGGGGCTGGGCCTGGACTT
18934 IS [CT] CTGGGTCTGAGGGAGGAGGGGCTGG
18998 I S GCCGTGCGGATGAACTTCAGCGCCA
18998 P G S ATGACGTGGCAGACCGAGTCAGTCCCAGCY
18998 P A S CGCGCCGAGGTGAGTCAGTCCCAGCY
18998 T G S ATGAGCTGGGACTGACTCGGGCGCTGAAGTTCATCCGCACGGCAT
18998 T A S ATGAGCTGGGACTGACTCAGGCGCTGAAGTTCATCCGCACGGCAT
TGTTCCCATCTCCTATTAGAACAAAGTGGTAAACTGGGGAGGATGAGCTGGGACTGACTC[GA]GGCGCTGAAGTTCATCCGCACGGCATTCCAGAATCTTC
18998 IS [GA] CACCGGCTTTCCTCAAGAACAT
19116 I S CTCTGCGCAGGTCGCGCTGCA
19116 P A S CGCGCCGAGGTGCCGCCACTGCY
19116 P G S ATGACGTGGCAGACCGCCGCCACTGCY
19116 T A S GGCAGCAGTGGCGGCAGCAGCGCGACCTGCGCAGAGCT
19116 T G S GGCAGCAGTGGCGGCGGCAGCGCGACCTGCGCAGAGCT
ACCGGCGGAGGATTCAGGGGGCTCGCGCCACCCTGCTGTTTGAGCGGCAGCAGTGGCGGC[AG]GCAGCGCGACCTGCGCAGAGCTCTGGACAGCAGCA
19116 IS [AG] ACCTCAGCCTGGCCAAGGAGCAGCA
19283 I S TGTGGCCCTGCTGGCTGGTGGA
19283 P G S ATGACGTGGCAGACCAGACACCAGTGCCCY
19283 P A S CGCGCCGAGGTAGACACCAGTGCCCY
19283 T G S ACAGGGGCACTGGTGTCTGCCACCAGCCAGCAGGGCCACAGT
19283 T A S ACAGGGGCACTGGTGTCTACCACCAGCCAGCAGGGCCACAGT
CAGGCCTGAGAAACAAAGCCCAAGCTCCACTCTGCACTAGAGACAGGGGCACTGGTGTCT[GA]CCACCAGCCAGCAGGGCCACAGTTCCACACACCTCCA
19283 IS [GA] TCGACTGCACAAGCGCTCACCAC
19395 I A TGATCTGCGCCCTGGGCCGGT
19395 P G A ATGACGTGGCAGACGGTTACTCACTGGCCTY
19395 P A A CGCGCCGAGGAGTTACTCACTGGCCTCY
19395 T G A GAGCGAGGCCAGTGAGTAACCCCGGCCCAGGGCGCAGATCACG
19395 T A A GAGCGAGGCCAGTGAGTAACTCCGGCCCAGGGCGCAGATCACG
AGTACCCGGGGCGTCCGTGGGGCATGGAGGTGGGGGGTCGTGATCTGCGCCCTGGGCCGG[GA]GTTACTCACTGGCCTCGCTCTGGTTGTAGTAGCCG
19395 IS [GA] CGCAGGGTCTGCAGGTTCATTCTGT
19600 I A GTTTGCCAGGGGCTCTCAGGCCTTA
19600 P C A ATGACGTGGCAGACCGGCCACAGACTGAY
19600 P T A CGCGCCGAGGTGGCCACAGACTGAAY
19600 T C A AGCCTTCAGTCTGTGGCCGAAGGCCTGAGAGCCCCTGGCAAACCA
19600 T T A AGCCTTCAGTCTGTGGCCAAAGGCCTGAGAGCCCCTGGCAAACCA
TTCTTCAGCTTTTGGACTCTTGGACTTACACCAGTGGTTTGCCAGGGGCTCTCAGGCCTT[CT]GGCCACAGACTGAAGGCTACACTATCAGCTTCTCTACTT
19600 IS [CT] TTGAGGTTTTGGGAATCGGAC
19602 I A CCAGACTCAGGGCCTCGACCGCA
19602 P C A ATGACGTGGCAGACCTCCCGCACCTTCAY
19602 P T A CGCGCCGAGGTTCCCGCACCTTCAY
19602 T C A GGAGTGAAGGTGCGGGAGGCGGTCGAGGCCCTGAGTCTGGCC
19602 T T A GGAGTGAAGGTGCGGGAAGCGGTCGAGGCCCTGAGTCTGGCC
CTGGCCCACGGGGCATCTCTGCGGGAGAAGTACCCAGGCCAGACTCAGGGCCTCGACCGC[CT]TCCCGCACCTTCACTCCAAATCCAAGCCCTCCACCAC
19602 IS [CT] GCCCACTTCCCGCTGTGGCTTCT
19611 I S CCTGCGGGCAAAGCAGCAGAGTGAT
19611 P C S ATGACGTGGCAGACGGGCCAGGCTCCY
19611 P G S CGCGCCGAGGCGGCCAGGCTCCY
19611 T C S GGGGGGAGCCTGGCCCTCACTCTGCTGCTTTGCCCGCAGGAG
19611 T G S GGGGGGAGCCTGGCCGTCACTCTGCTGCTTTGCCCGCAGGAG
CGCATTGGTGAGCGGGGCCCCAGGGACAGGGCTGAGGTTGGGCGCGGGGGGAGCCTGGCC[CG]TCACTCTGCTGCTTTGCCCGCAGGAGACGGAGAGG
19611 IS [CG] ACGACGAGACGGAGGAGGGCGCAGG
19661 I A CTTCCCTCCGAGGGGCGGACGT
19661 P G A ATGACGTGGCAGACGAAGGTCCGCAGGGY
19661 P C A CGCGCCGAGGCAAGGTCCGCAGGGY
19661 T G A TTAACCCTGCGGACCTTCCGTCCGCCCCTCGGAGGGAAGCC
19661 T C A TTAACCCTGCGGACCTTGCGTCCGCCCCTCGGAGGGAAGCC
TGGTTTCAATAAAAACTGAAGCGGTCCCGAGCTAGCAGGCTTCCCTCCGAGGGGCGGACG[GC]AAGGTCCGCAGGGTTAACGGAAGCGGAGAGAACAGGA
19661 IS [GC] CAAAAAGGAAAGGCCGGAGAGTC
19865 I S CTCTTGCTTGCCATCCCCTTCACCCCA
19865 P G S ATGACGTGGCAGACCGACTTCCCGGCCY
19865 P A S CGCGCCGAGGTGACTTCCCGGCCY
19865 T G S GGAAGGCCGGGAAGTCGGGGGTGAAGGGGATGGCAAGCAAGAGGA
19865 T A S GGAAGGCCGGGAAGTCAGGGGTGAAGGGGATGGCAAGCAAGAGGA
DKFZP566F0546
KIAA0757

FIGURE 129E

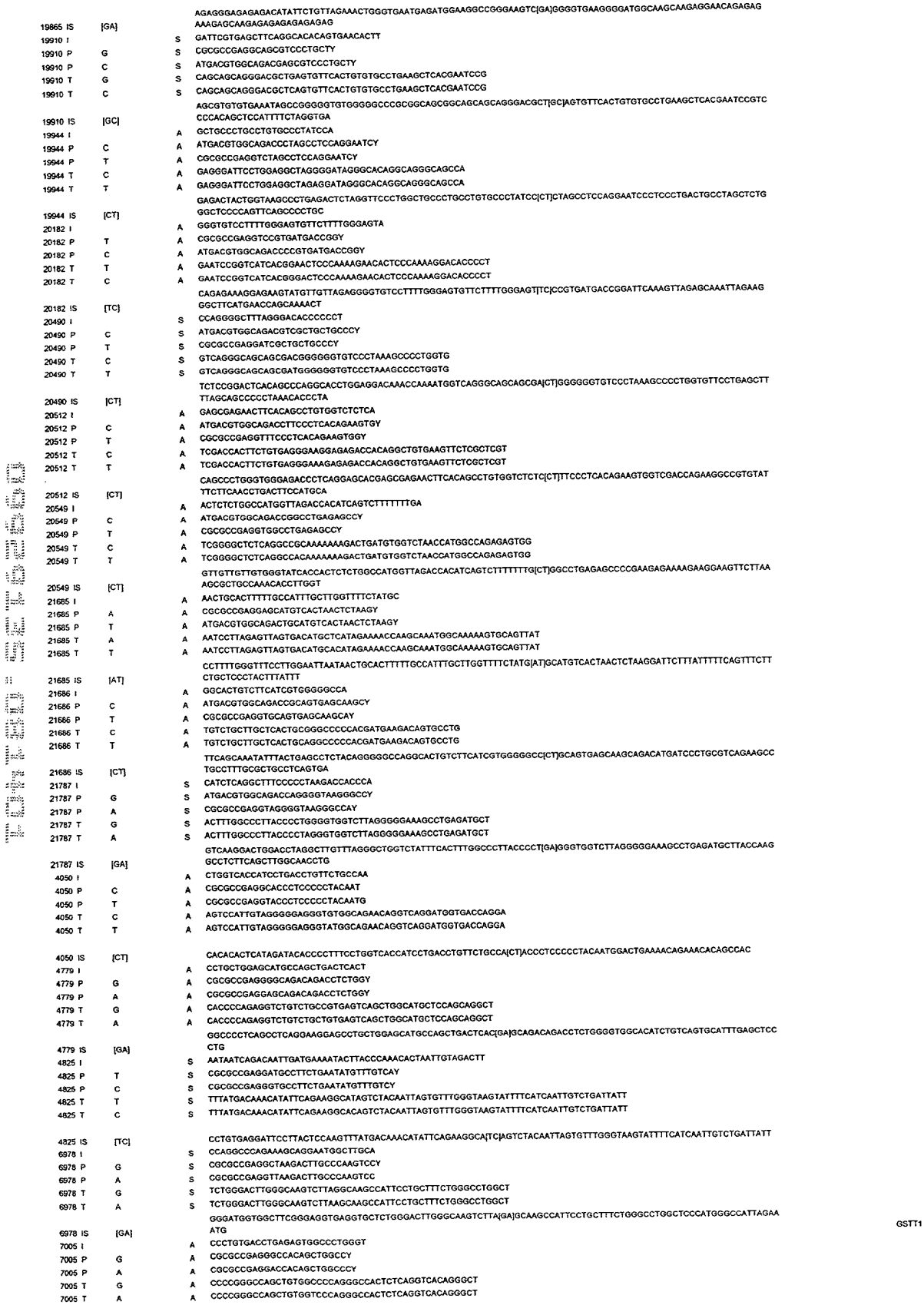

AGAGGGAGAGAGACATATTCTGTTAGAAACTGGGTGAATGAGATGGAAGGCCGGGAAGTC[GA]GGGGTGAAGGGGATGGCAAGCAAGAGGAACAGAGAG
19865 IS [GA] AAAGAGCAAGAGAGAGAGAGAG
19910 I S GATTCGTGAGCTTCAGGCACACAGTGAACACTT
19910 P G S CGCGCCGAGGCAGCGTCCCTGCTY
19910 P C S ATGACGTGGCAGACGAGCGTCCCTGCTY
19910 T G S CAGCAGCAGGGACGCTGAGTGTTCACTGTGTGCCTGAAGCTCACGAATCCG
19910 T C S CAGCAGCAGGGACGCTCAGTGTTCACTGTGTGCCTGAAGCTCACGAATCCG
AGCGTGTGTGAAATAGCCGGGGGTGTGGGGGCCCGCGGCAGCGGCAGCAGCAGGGACGCT[GC]AGTGTTCACTGTGTGCCTGAAGCTCACGAATCCGTC
19910 IS [GC] CCCACAGCTCCATTTTCTAGGTGA
19944 I A GCTGCCCTGCCTGTGCCCTATCCA
19944 P C A ATGACGTGGCAGACCCTAGCCTCCAGGAATCY
19944 P T A CGCGCCGAGGTCTAGCCTCCAGGAATCY
19944 T C A GAGGGATTCCTGGAGGCTAGGGGATAGGGCACAGGCAGGGCAGCCA
19944 T T A GAGGGATTCCTGGAGGCTAGAGGATAGGGCACAGGCAGGGCAGCCA
GAGACTACTGGTAAGCCCTGAGACTCTAGGTTCCCTGGCTGCCCTGCCTGTGCCCTATCC[CT]CTAGCCTCCAGGAATCCCTCCCTGACTGCCTAGCTCTG
19944 IS [CT] GGCTCCCCAGTTCAGCCCCTGC
20182 I A GGGTGTCCTTTTGGGAGTGTTCTTTTGGGAGTA
20182 P T A CGCGCCGAGGTCCGTGATGACCGGY
20182 P C A ATGACGTGGCAGACCCCGTGATGACCGGY
20182 T T A GAATCCGGTCATCACGGAACTCCCAAAAGAACACTCCCAAAAGGACACCCCT
20182 T C A GAATCCGGTCATCACGGGACTCCCAAAAGAACACTCCCAAAAGGACACCCCT
CAGAGAAAGGAGAAGTATGTTGTTAGAGGGGTGTCCTTTTGGGAGTGTTCTTTTGGGAGT[TC]CCGTGATGACCGGATTCAAAGTTAGAGCAAATTAGAAG
20182 IS [TC] GGCTTCATGAACCAGCAAAACT
20490 I S CCAGGGGCTTTAGGGACACCCCCCT
20490 P C S ATGACGTGGCAGACGTCGCTGCTGCCCY
20490 P T S CGCGCCGAGGATCGCTGCTGCCCY
20490 T C S GTCAGGGCAGCAGCGACGGGGGGGTGTCCCTAAAGCCCCTGGTG
20490 T T S GTCAGGGCAGCAGCGATGGGGGGTGTCCCTAAAGCCCCTGGTG
TCTCCGGACTCACAGCCCAGGCACCTGGAGGACAAACCAAAATGGTCAGGGCAGCAGCGA[CT]GGGGGGTGTCCCTAAAGCCCCTGGTGTTCCTGAGCTT
20490 IS [CT] TTAGCAGCCCCCTAAACACCCTA
20512 I A GAGCGAGAACTTCACAGCCTGTGGTCTCTCA
20512 P C A ATGACGTGGCAGACCTTCCCTCACAGAAGTGY
20512 P T A CGCGCCGAGGTTTCCCTCACAGAAGTGGY
20512 T C A TCGACCACTTCTGTGAGGGAAGGAGAGACCACAGGCTGTGAAGTTCTCGCTCGT
20512 T T A TCGACCACTTCTGTGAGGGAAAGAGAGACCACAGGCTGTGAAGTTCTCGCTCGT
CAGCCCTGGGTGGGAGACCCTCAGGAGCACGAGCGAGAACTTCACAGCCTGTGGTCTCTC[CT]TTCCCTCACAGAAGTGGTCGACCAGAAGGCCGTGTAT
20512 IS [CT] TTCTTCAACCTGACTTCCATGCA
20549 I A ACTCTCTGGCCATGGTTAGACCACATCAGTCTTTTTTTGA
20549 P C A ATGACGTGGCAGACCGGCCTGAGAGCCY
20549 P T A CGCGCCGAGGTGGCCTGAGAGCCY
20549 T C A TCGGGGCTCTCAGGCCGCAAAAAAAGACTGATGTGGTCTAACCATGGCCAGAGAGTGG
20549 T T A TCGGGGCTCTCAGGCCACAAAAAAAGACTGATGTGGTCTAACCATGGCCAGAGAGTGG
GTTGTTGTTGTGGGTATCACCACTCTCTGGCCATGGTTAGACCACATCAGTCTTTTTTTG[CT]GGCCTGAGAGCCCCGAAGAGAAAAGAAGGAAGTTCTTAA
20549 IS [CT] AGCGCTGCCAAACACCTTGGT
21685 I A AACTGCACTTTTTGCCATTTGCTTGGTTTTCTATGC
21685 P A A CGCGCCGAGGAGCATGTCACTAACTCTAAGY
21685 P T A ATGACGTGGCAGACTGCATGTCACTAACTCTAAGY
21685 T A A AATCCTTAGAGTTAGTGACATGCTCATAGAAAACCAAGCAAATGGCAAAAAGTGCAGTTAT
21685 T T A AATCCTTAGAGTTAGTGACATGCACATAGAAAACCAAGCAAATGGCAAAAAGTGCAGTTAT
CCTTTTGGGTTTCCTTGGAATTAATAACTGCACTTTTTGCCATTTGCTTGGTTTTCTATG[AT]GCATGTCACTAACTCTAAGGATTCTTTATTTTTCAGTTTCTT
21685 IS [AT] CTGCTCCCTACTTTATTT
21686 I A GGCACTGTCTTCATCGTGGGGGCCA
21686 P C A ATGACGTGGCAGACCGCAGTGAGCAAGCY
21686 P T A CGCGCCGAGGTGCAGTGAGCAAGCAY
21686 T C A TGTCTGCTTGCTCACTGCGGGCCCCCACGATGAAGACAGTGCCTG
21686 T T A TGTCTGCTTGCTCACTGCAGGCCCCCACGATGAAGACAGTGCCTG
TTCAGCAAATATTTACTGAGCCTCTACAGGGGGCCAGGCACTGTCTTCATCGTGGGGGCC[CT]GCAGTGAGCAAGCAGACATGATCCCTGCGTCAGAAGCC
21686 IS [CT] TGCCTTTGCGCTGCCTCAGTGA
21787 I S CATCTCAGGCTTTCCCCCTAAGACCACCCA
21787 P G S ATGACGTGGCAGACCAGGGGTAAGGGCCY
21787 P A S CGCGCCGAGGTAGGGGTAAGGGCCAY
21787 T G S ACTTTGGCCCTTACCCCTGGGGTGGTCTTAGGGGGAAAGCCTGAGATGCT
21787 T A S ACTTTGGCCCTTACCCCTAGGGTGGTCTTAGGGGGAAAGCCTGAGATGCT
GTCAAGGACTGGACCTAGGCTTGTTTAGGGCTGGTCTATTTCACTTTGGCCCTTACCCCT[GA]GGGTGGTCTTAGGGGGAAAGCCTGAGATGCTTACCAAG
21787 IS [GA] GCCTCTTCAGCTTGGCAACCTG
4050 I A CTGGTCACCATCCTGACCTGTTCTGCCAA
4050 P C A CGCGCCGAGGCACCCTCCCCCTACAAT
4050 P T A CGCGCCGAGGTACCCTCCCCCTACAATG
4050 T C A AGTCCATTGTAGGGGGAGGGTGTGGCAGAACAGGTCAGGATGGTGACCAGGA
4050 T T A AGTCCATTGTAGGGGGAGGGTATGGCAGAACAGGTCAGGATGGTGACCAGGA
4050 IS [CT] CACACACTCATAGATACACCCCTTTCCTGGTCACCATCCTGACCTGTTCTGCCA[CT]ACCCTCCCCCTACAATGGACTGAAAACAGAAACACAGCCAC
4779 I A CCTGCTGGAGCATGCCAGCTGACTCACT
4779 P G A CGCGCCGAGGGGCAGACAGACCTCTGGY
4779 P A A CGCGCCGAGGAGCAGACAGACCTCTGGY
4779 T G A CACCCCAGAGGTCTGTCTGCCGTGAGTCAGCTGGCATGCTCCAGCAGGCT
4779 T A A CACCCCAGAGGTCTGTCTGCTGTGAGTCAGCTGGCATGCTCCAGCAGGCT
GGCCCCTCAGCCTCAGGAAGGAGCCTGCTGGAGCATGCCAGCTGACTCAC[GA]GCAGACAGACCTCTGGGGTGGCACATCTGTCAGTGCATTTGAGCTCC
4779 IS [GA] CTG
4825 I S AATAATCAGACAATTGATGAAAATACTTACCCAAACAGTAATTGTAGACTT
4825 P T S CGCGCCGAGGATGCCTTCTGAATATGTTTGTCAY
4825 P C S CGCGCCGAGGGTGCCTTCTGAATATGTTTGTCY
4825 T T S TTTATGACAAACATATTCAGAAGGCATAGTCTACAATTAGTGTTTGGGTAAGTATTTTCATCAATTGTCTGATTATT
4825 T C S TTTATGACAAACATATTCAGAAGGCACAGTCTACAATTAGTGTTTGGGTAAGTATTTTCATCAATTGTCTGATTATT
4825 IS [TC] CCTGTGAGGATTCCTTACTCCAAGTTTATGACAAACATATTCAGAAGGCA[TC]AGTCTACAATTAGTGTTTGGGTAAGTATTTTCATCAATTGTCTGATTATT
6978 I S CCAGGCCCAGAAAGCAGGAATGGCTTGCA
6978 P G S CGCGCCGAGGCTAAGACTTGCCCAAGTCCY
6978 P A S CGCGCCGAGGTTAAGACTTGCCCAAGTCC
6978 T G S TCTGGGACTTGGGCAAGTCTTAGGCAAGCCATTCCTGCTTTCTGGGCCTGGCT
6978 T A S TCTGGGACTTGGGCAAGTCTTAAGCAAGCCATTCCTGCTTTCTGGGCCTGGCT
GGGATGGTGGCTTCGGGAGGTGAGGTGCTCTGGGACTTGGGCAAGTCTTA[GA]GCAAGCCATTCCTGCTTTCTGGGCCTGGCTCCCATGGGCCATTAGAA
6978 IS [GA] ATG
7005 I A CCCTGTGACCTGAGAGTGGCCCTGGGT
7005 P G A CGCGCCGAGGGCCACAGCTGGCCY
7005 P A A CGCGCCGAGGACCACAGCTGGCCCY
7005 T G A CCCCGGGCCAGCTGTGGCCCCAGGGCCACTCTCAGGTCACAGGGCT
7005 T A A CCCCGGGCCAGCTGTGGTCCCAGGGCCACTCTCAGGTCACAGGGCT
GSTT1

FIGURE 129E

				CTGGGCTCTGGGCAGGCTCCTCAGCCCTGTGACCTGAGAGTGGCCCTGGG[GA]CCACAGCTGGCCCGGGGCCTGCACTGGGGTTTGCATGTGACAGGGA
7005 IS	[GA]			AGAG
7011 I			A	GAGTCAACCAGTCCCTGCTCTCCAGTTGCTTCA
7011 P	T		A	CGCGCCGAGGTAGGACAGTGGAAGGAGGY
7011 P	C		A	CGCGCCGAGGCAGGACAGTGGAAGGAGGY
7011 T	T		A	GCTGCCTCCTTCCACTGTCCTAGAAGCAACTGGAGAGCAGGGACTGGTTGACTCAT
7011 T	C		A	GCTGCCTCCTTCCACTGTCCTGGAAGCAACTGGAGAGCAGGGACTGGTTGACTCAT
				GCTGCTGAGCCTAACAATGAGTCAACCAGTCCCTGCTCTCCAGTTGCTTC[TC]AGGACAGTGGAAGGAGGCAGCCAGGTAAACAGATACCTGTAGCATTGT
7011 IS	[TC]			AA
7027 I			S	ACACCTAGAGAACATTCCACCCAAGAACATCAGAAC
7027 P	A		S	CGCGCCGAGGTACATACTCTTCACAAGTGCC
7027 P	T		S	CGCGCCGAGGAACATACTCTTCACAAGTGCC
7027 T	A		S	TACGGGCACTTGTGAAGAGTATGTATTCTGATGTTCTTGGGTGGAATGTTCTCTAGGTGTCT
7027 T	T		S	TACGGGCACTTGTGAAGAGTATGTTTTCTGATGTTCTTGGGTGGAATGTTCTCTAGGTGTCT
7027 IS	[AT]			TACATGGCCTATCTTTGAAAATGTTTTACGGGCACTTGTGAAGAGTATGT[AT]TTCTGATGTTCTTGGGTGGAATGTTCTCTAGGTGTCTATAAGGTCTAGTT
7172 I			S	CCAGGCAAGGAGGGGCAAAGATTCCAGACT
7172 P	T		S	CGCGCCGAGGATCCAGACAGGCTTAGACC
7172 P	G		S	CGCGCCGAGGCTCCAGACAGGCTTAGACCY
7172 T	T		S	CTAAGGTCTAAGCCTGTCTGGATGTCTGGAATCTTTGCCCCTCCTTGCCTGGGC
7172 T	G		S	CTAAGGTCTAAGCCTGTCTGGAGGTCTGGAATCTTTGCCCCTCCTTGCCTGGGC
				AGTTTTTCCCTTTCCTGTCTGTCGAAGGCTAAGGTCTAAGCCTGTCTGGA[TG]GTCTGGAATCTTTGCCCCTCCTTGCCTGGGCTCCTGCCCTCTTCTGTGA
7172 IS	[TG]			T
7180 I			S	TGTGAAGAACTGGGACCACACAACGTTGATCT
7180 P	C		S	CGCGCCGAGGGTGCCAGATGCCAGG
7180 P	T		S	CGCGCCGAGGATGCCAGATGCCAGGTY
7180 T	C		S	CTTCACCTGGCATCTGGCACGATCAACGTTGTGTGGTCCCAGTTCTTCACAAT
7180 T	T		S	CTTCACCTGGCATCTGGCATGATCAACGTTGTGTGGTCCCAGTTCTTCACAAT
7180 IS	[CT]			GAGGATTAAATGAGATAACTCTTGGAAGATACTTCACCTGGCATCTGGCA[CT]GATCAACGTTGTGTGGTCCCAGTTCTTCACAATCTAGTCAATGCCCTGCT
7208 I			S	GGGTTTCGGTGTCAGAATGCCCGGGTAGAATAT
7208 P	C		S	CGCGCCGAGGGTGCCTAGTTCATGGGCY
7208 P	G		S	CGCGCCGAGGCTGCCTAGTTCATGGGCY
7208 T	C		S	TGCTGCCCATGAACTAGGCACTATTCTACCCGGGCATTCTGACACCGAAACCCAC
7208 T	G		S	TGCTGCCCATGAACTAGGCAGTATTCTACCCGGGCATTCTGACACCGAAACCCAC
7208 IS	[CG]			CCGTTAATACTAATAATTAACATTATGTAGTGCTGCCCATGAACTAGGCA[CG]TATTCTACCCGGGCATTCTGACACCGAAACCCACTTAACTTCTCTATGAT
7212 I			S	GTGAGCAGCTCTGAGATCCAAAAATTACCTCTGACCAGTT
7212 P	T		S	CGCGCCGAGGACCACACTGGACACCCY
7212 P	G		S	CGCGCCGAGGCCCACACTGGACACCCY
7212 T	T		S	GGGTGGGTGTCCAGTGTGGTACTGGTCAGAGGTAATTTTTGGATCTCAGAGCTGCTCACAG
7212 T	G		S	GGGTGGGTGTCCAGTGTGGGACTGGTCAGAGGTAATTTTTGGATCTCAGAGCTGCTCACAG
				GTCGAGTTACCAGCGAGTGCCTGTTCTGCTTGGGTGGGTGTCCAGTGTGG[TG]ACTGGTCAGAGGTAATTTTTGGATCTCAGAGCTGCTCACAGCTGTTGG
7212 IS	[TG]			CG
7215 I			S	CCACCAACATTCACACGAGCAGGTGTGAGGACA
7215 P	G		S	CGCGCCGAGGCGCAGTTCCTCTTCCCY
7215 P	A		S	CGCGCCGAGGTGCAGTTCCTCTTCCCGY
7215 T	G		S	GGAGCGGGAAGAGGAACTGCGGTCCTCACACCTGCTCGTGTGAATGTTGGTGGCT
7215 T	A		S	GGAGCGGGAAGAGGAACTGCAGTCCTCACACCTGCTCGTGTGAATGTTGGTGGCT
				GTGAGAGCAGACGGTGCCCGGTGCTGCGGAGGAGCGGGAAGAGGAACTGC[GA]GTCCTCACACCTGCTCGTGTGAATGTTGGTGGCTTCAGCCTCCTTG
7215 IS	[GA]			GAAA
7216 I			A	CTGTAGGACCCTGTGAATGTGCTCACTGCCACT
7216 P	G		A	CGCGCCGAGGGGAACAGTTCACTCACCAG
7216 P	A		A	CGCGCCGAGGAGAACAGTTCACTCACCAGT
7216 T	G		A	TACCACTGGTGAGTGAACTGTTCCGTGGCAGTGAGCACATTCACAGGGTCCTACAGCC
7216 T	A		A	TACCACTGGTGAGTGAACTGTTCTGTGGCAGTGAGCACATTCACAGGGTCCTACAGCC
				GATGGGGGGTGGTTATGGCTGTAGGACCCTGTGAATGTGCTCACTGCCAC[GA]GAACAGTTCACTCACCAGTGGTAAAGAAGGTAAATGTTATGTATATCTT
7216 IS	[GA]			A
7225 I			S	ACCCAGAACACTGAAGTTCAGAATATGGCTAGGAGTGCTT
7225 P	T		S	CGCGCCGAGGATGCACTCAGACAGACACA
7225 P	C		S	CGCGCCGAGGGTGCACTCAGACAGACAC
7225 T	T		S	TGAGTGTGTCTGTCTGAGTGCATAGCACTCCTAGCCATATTCTGAACTTCAGTGTTCTGGGTTC
7225 T	C		S	TGAGTGTGTCTGTCTGAGTGCACAGCACTCCTAGCCATATTCTGAACTTCAGTGTTCTGGGTTC
				GTTGCTGAAACATGATAGACAGACACACTGAGTGTGTCTGTCTGAGTGCA[TC]AGCACTCCTAGCCATATTCTGAACTTCAGTGTTCTGGGTTCAGACAGCC
7225 IS	[TC]			T
7240 I			A	CCTGGGAGCTTGTTAACCTGCAAAACATAAGTGTGGTCA
7240 P	C		A	CGCGCCGAGGCAGACCAGCACTTCTCAAAC
7240 P	T		A	CGCGCCGAGGTAGACCAGCACTTCTCAAACT
7240 T	C		A	TGTAAGTTTGAGAAGTGCTGGTCTGGACCACACTTATGTTTTGCAGGTTAACAAGCTCCCAGGTG
7240 T	T		A	TGTAAGTTTGAGAAGTGCTGGTCTAGACCACACTTATGTTTTGCAGGTTAACAAGCTCCCAGGTG
7240 IS	[CT]			GCATAAGAATCACCTGGGAGCTTGTTAACCTGCAAAACATAAGTGTGGTC[CT]AGACCAGCACTTCTCAAACTTACATATGTACACAAATCACCTGGGGATCT
7265 I			A	TGCTCCAAATTCCAGCTCCCACGGGCT
7265 P	INS		A	CGCGCCGAGGCCGCTGGGAGCCC
7265 P	DEL		A	CGCGCCGAGGCGCTGGGAGCCCG
7265 T	INS		A	CTGGCGGGCTCCCAGCGGGCCCGTGGGAGCTGGAATTTGGAGCAGT
7265 T	DEL		A	CTGGCGGGCTCCCAGCGGCCCGTGGGAGCTGGAATTTGGAGCAGT
				GGCAGCGCACACACGCCAGGGACTGCTCCAAATTCCAGCTCCCACGGGCC[C-]GCTGGGAGCCCGCCAGGCAGGGCTGGGGAAGGGCAGGGAGCCCCTCCTCG
7265 IS	[C-]			
7266 I			S	GGTCAGGATCCGAGTCACCCTGGAGCCA
7266 P	A		S	CGCGCCGAGGTAGGCAGAGATCAGCGAA
7266 P	G		S	CGCGCCGAGGCAGGCAGAGATCAGCGA
7266 T	A		S	GGCTTTCGCTGATCTCTGCCTAGGCTCCAGGGTGACTCGGATCCTGACCGA
7266 T	G		S	GGCTTTCGCTGATCTCTGCCTGGGCTCCAGGGTGACTCGGATCCTGACCGA
				CACGCCTTCCAGACCTATGCATCAGCGAGGGCTTTCGCTGATCTCTGCCT[AG]GGCTCCAGGGTGACTCGGATCCTGACCGATTCCCTGCTTCCAGGCTG
7266 IS	[AG]			GTC
7269 I			S	GGGCCGAGGGTATCAGGGAGTTAGACTGCT
7269 P	T		S	CGCGCCGAGGATCCTCACCCCGTGGY
7269 P	C		S	CGCGCCGAGGGTCCTCACCCCGTGGY
7269 T	T		S	CCACCCACGGGGTGAGGATGCAGTCTAACTCCCTGATACCCTCGGCCCTG
7269 T	C		S	CCACCCACGGGGTGAGGACGCAGTCTAACTCCCTGATACCCTCGGCCCTG
				CCATCTCCATTCTGCCTCTGGATGTGTTCCCTCCACCCACGGGGTGAGGA[TC]GCAGTCTAACTCCCTGATACCCTCGGCCCTGTCTCGGGGTTCGCCTTA
7269 IS	[TC]			TT
7295 I			A	GGGCTCTGTGGCTGTTCCTCTGTGTGATGTCC
7295 P	G		A	CGCGCCGAGGGCTAATTCCCCCACCCT
7295 P	T		A	CGCGCCGAGGTCTAATTCCCCCACCCTC
7295 T	G		A	AGGGGAGGGTGGGGGAATTAGCGACATCACACAGAGGAACAGCCACAGAGCCCTA
7295 T	T		A	AGGGGAGGGTGGGGGAATTAGAGACATCACACAGAGGAACAGCCACAGAGCCCTA

FIGURE 129E

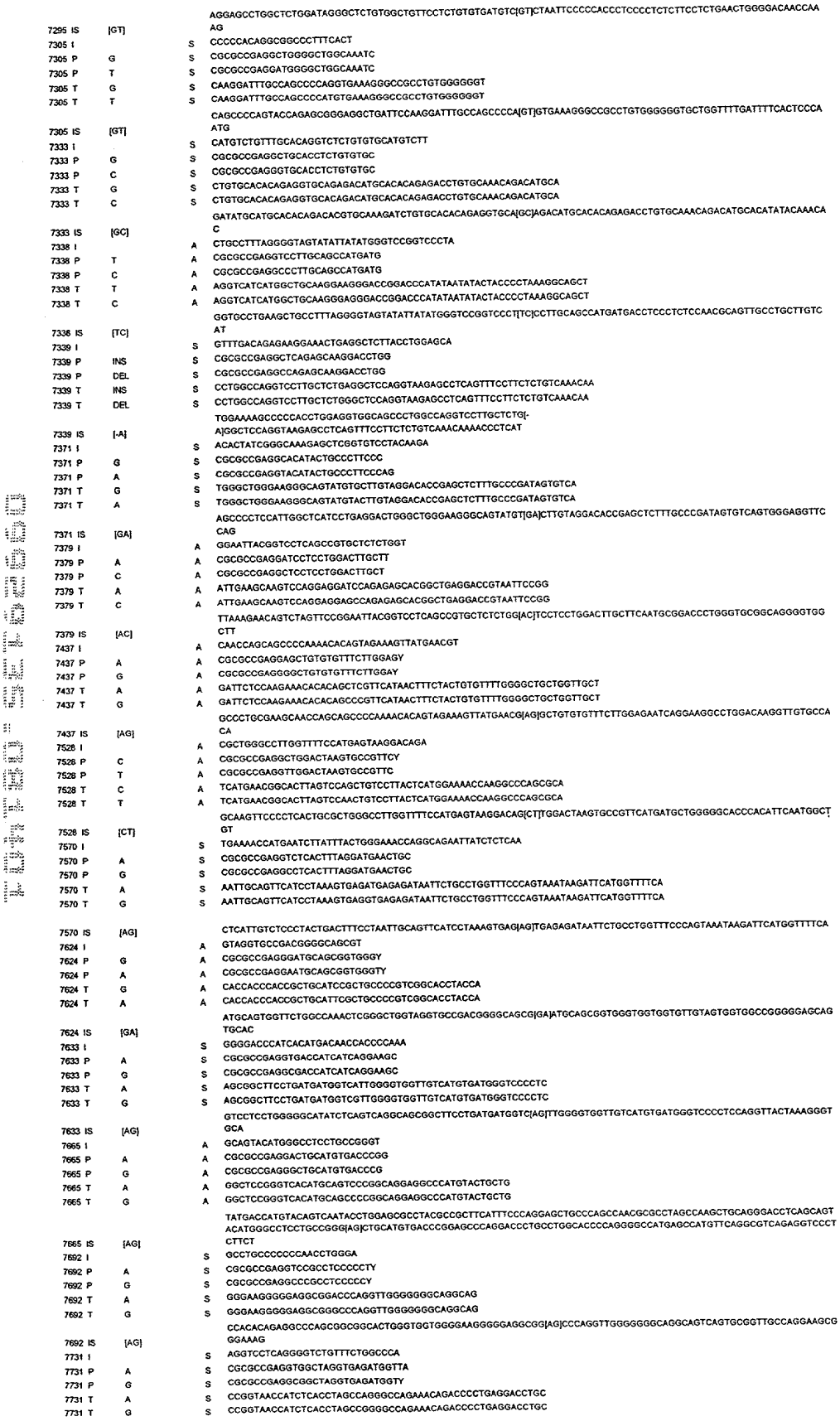

AGGAGCCTGGCTCTGGATAGGGCTCTGTGGCTGTTCCTCTGTGTGATGTC[GT]CTAATTCCCCCACCCTCCCCTCTCTTCCTCTGAACTGGGGACAACCAA
7295 IS [GT] AG
7305 I S CCCCCACAGGCGGCCCTTTCACT
7305 P G S CGCGCCGAGGCTGGGGCTGGCAAATC
7305 P T S CGCGCCGAGGATGGGGCTGGCAAATC
7305 T G S CAAGGATTTGCCAGCCCCAGGTGAAAGGGCCGCCTGTGGGGGGT
7305 T T S CAAGGATTTGCCAGCCCCATGTGAAAGGGCCGCCTGTGGGGGGT
CAGCCCCAGTACCAGAGCGGGAGGCTGATTCCAAGGATTTGCCAGCCCCA[GT]GTGAAAGGGCCGCCTGTGGGGGGTGCTGGTTTTGATTTTCACTCCCA
7305 IS [GT] ATG
7333 I S CATGTCTGTTTGCACAGGTCTCTGTGTGCATGTCTT
7333 P G S CGCGCCGAGGCTGCACCTCTGTGTGC
7333 P C S CGCGCCGAGGGTGCACCTCTGTGTGC
7333 T G S CTGTGCACACAGAGGTGCAGAGACATGCACACAGAGACCTGTGCAAACAGACATGCA
7333 T C S CTGTGCACACAGAGGTGCACAGACATGCACACAGAGACCTGTGCAAACAGACATGCA
GATATGCATGCACACAGACACGTGCAAAGATCTGTGCACACAGAGGTGCA[GC]AGACATGCACACAGAGACCTGTGCAAACAGACATGCACATATACAAACA
7333 IS [GC] C
7338 I A CTGCCTTTAGGGGTAGTATATTATATGGGTCCGGTCCCTA
7338 P T A CGCGCCGAGGTCCTTGCAGCCATGATG
7338 P C A CGCGCCGAGGCCCTTGCAGCCATGATG
7338 T T A AGGTCATCATGGCTGCAAGGAAGGGACCGGACCCATATAATATACTACCCCTAAAGGCAGCT
7338 T C A AGGTCATCATGGCTGCAAGGGAGGGACCGGACCCATATAATATACTACCCCTAAAGGCAGCT
GGTGCCTGAAGCTGCCTTTAGGGGTAGTATATTATATGGGTCCGGTCCCT[TC]CCTTGCAGCCATGATGACCTCCCTCTCCAACGCAGTTGCCTGCTTGTC
7338 IS [TC] AT
7339 I S GTTTGACAGAGAAGGAAACTGAGGCTCTTACCTGGAGCA
7339 P INS S CGCGCCGAGGCTCAGAGCAAGGACCTGG
7339 P DEL S CGCGCCGAGGCCAGAGCAAGGACCTGG
7339 T INS S CCTGGCCAGGTCCTTGCTCTGAGGCTCCAGGTAAGAGCCTCAGTTTCCTTCTCTGTCAAACAA
7339 T DEL S CCTGGCCAGGTCCTTGCTCTGGGCTCCAGGTAAGAGCCTCAGTTTCCTTCTCTGTCAAACAA
TGGAAAAGCCCCCACCTGGAGGTGGCAGCCCTGGCCAGGTCCTTGCTCTG[-
7339 IS [-A] A]GGCTCCAGGTAAGAGCCTCAGTTTCCTTCTCTGTCAAACAAAACCCTCAT
7371 I S ACACTATCGGGCAAAGAGCTCGGTGTCCTACAAGA
7371 P G S CGCGCCGAGGCACATACTGCCCTTCCC
7371 P A S CGCGCCGAGGTACATACTGCCCTTCCCAG
7371 T G S TGGGCTGGGAAGGGCAGTATGTGCTTGTAGGACACCGAGCTCTTTGCCCGATAGTGTCA
7371 T A S TGGGCTGGGAAGGGCAGTATGTACTTGTAGGACACCGAGCTCTTTGCCCGATAGTGTCA
AGCCCCTCCATTGGCTCATCCTGAGGACTGGGCTGGGAAGGGCAGTATGT[GA]CTTGTAGGACACCGAGCTCTTTGCCCGATAGTGTCAGTGGGAGGTTC
7371 IS [GA] CAG
7379 I A GGAATTACGGTCCTCAGCCGTGCTCTCTGGT
7379 P A A CGCGCCGAGGATCCTCCTGGACTTGCTT
7379 P C A CGCGCCGAGGCTCCTCCTGGACTTGCT
7379 T A A ATTGAAGCAAGTCCAGGAGGATCCAGAGAGCACGGCTGAGGACCGTAATTCCGG
7379 T C A ATTGAAGCAAGTCCAGGAGGAGCCAGAGAGCACGGCTGAGGACCGTAATTCCGG
TTAAAGAACAGTCTAGTTCCGGAATTACGGTCCTCAGCCGTGCTCTCTGG[AC]TCCTCCTGGACTTGCTTCAATGCGGACCCTGGGTGCGGCAGGGGTGG
7379 IS [AC] CTT
7437 I A CAACCAGCAGCCCCAAAACACAGTAGAAAGTTATGAACGT
7437 P A A CGCGCCGAGGAGCTGTGTGTTTCTTGGAGY
7437 P G A CGCGCCGAGGGGCTGTGTGTTTCTTGGAY
7437 T A A GATTCTCCAAGAAACACACAGCTCGTTCATAACTTTCTACTGTGTTTTGGGGCTGCTGGTTGCT
7437 T G A GATTCTCCAAGAAACACACAGCCCGTTCATAACTTTCTACTGTGTTTTGGGGCTGCTGGTTGCT
GCCCTGCGAAGCAACCAGCAGCCCCAAAACACAGTAGAAAGTTATGAACG[AG]GCTGTGTGTTTCTTGGAGAATCAGGAAGGCCTGGACAAGGTTGTGCCA
7437 IS [AG] CA
7528 I A CGCTGGGCCTTGGTTTTCCATGAGTAAGGACAGA
7528 P C A CGCGCCGAGGCTGGACTAAGTGCCGTTCY
7528 P T A CGCGCCGAGGTTGGACTAAGTGCCGTTC
7528 T C A TCATGAACGGCACTTAGTCCAGCTGTCCTTACTCATGGAAAACCAAGGCCCAGCGCA
7528 T T A TCATGAACGGCACTTAGTCCAACTGTCCTTACTCATGGAAAACCAAGGCCCAGCGCA
GCAAGTTCCCCTCACTGCGCTGGGCCTTGGTTTTCCATGAGTAAGGACAG[CT]TGGACTAAGTGCCGTTCATGATGCTGGGGGCACCCACATTCAATGGCT
7528 IS [CT] GT
7570 I S TGAAAACCATGAATCTTATTTACTGGGAAACCAGGCAGAATTATCTCTCAA
7570 P A S CGCGCCGAGGTCTCACTTTAGGATGAACTGC
7570 P G S CGCGCCGAGGCCTCACTTTAGGATGAACTGC
7570 T A S AATTGCAGTTCATCCTAAAGTGAGATGAGAGATAATTCTGCCTGGTTTCCCAGTAAATAAGATTCATGGTTTTCA
7570 T G S AATTGCAGTTCATCCTAAAGTGAGGTGAGAGATAATTCTGCCTGGTTTCCCAGTAAATAAGATTCATGGTTTTCA
CTCATTGTCTCCCTACTGACTTTCCTAATTGCAGTTCATCCTAAAGTGAG[AG]TGAGAGATAATTCTGCCTGGTTTCCCAGTAAATAAGATTCATGGTTTTCA
7570 IS [AG]
7624 I A GTAGGTGCCGACGGGGCAGCGT
7624 P G A CGCGCCGAGGGATGCAGCGGTGGGY
7624 P A A CGCGCCGAGGAATGCAGCGGTGGGTY
7624 T G A CACCACCCACCGCTGCATCCGCTGCCCCGTCGGCACCTACCA
7624 T A A CACCACCCACCGCTGCATTCGCTGCCCCGTCGGCACCTACCA
ATGCAGTGGTTCTGGCCAAACTCGGGCTGGTAGGTGCCGACGGGGCAGCG[GA]ATGCAGCGGTGGGTGGTGGTGTTGTAGTGGTGGCCGGGGGAGCAG
7624 IS [GA] TGCAC
7633 I S GGGGACCCATCACATGACAACCACCCCAAA
7633 P A S CGCGCCGAGGTGACCATCATCAGGAAGC
7633 P G S CGCGCCGAGGCGACCATCATCAGGAAGC
7633 T A S AGCGGCTTCCTGATGATGGTCATTGGGGTGGTTGTCATGTGATGGGTCCCCTC
7633 T G S AGCGGCTTCCTGATGATGGTCGTTGGGGTGGTTGTCATGTGATGGGTCCCCTC
GTCCTCCTGGGGGCATATCTCAGTCAGGCAGCGGCTTCCTGATGATGGTC[AG]TTGGGGTGGTTGTCATGTGATGGGTCCCCTCCAGGTTACTAAAGGGT
7633 IS [AG] GCA
7665 I A GCAGTACATGGGCCTCCTGCCGGGT
7665 P A A CGCGCCGAGGACTGCATGTGACCCGG
7665 P G A CGCGCCGAGGGCTGCATGTGACCCG
7665 T A A GGCTCCGGGTCACATGCAGCCCCGGCAGGAGGCCCATGTACTGCTG
7665 T G A GGCTCCGGGTCACATGCAGCCCCGGCAGGAGGCCCATGTACTGCTG
TATGACCATGTACAGTCAATACCTGGAGCGCCTACGCCGCTTCATTTCCCAGGAGCTGCCCAGCCAACGCGCCTAGCCAAGCTGCAGGGACCTCAGCAGT
ACATGGGCCTCCTGCCGGG[AG]CTGCATGTGACCCGGAGCCCAGGACCCTGCCTGGCACCCCAGGGGCCATGAGCCATGTTCAGGCGTCAGAGGTCCCT
7665 IS [AG] CTTCT
7692 I S GCCTGCCCCCCCAACCTGGGA
7692 P A S CGCGCCGAGGTCCGCCTCCCCCTY
7692 P G S CGCGCCGAGGCCCGCCTCCCCCY
7692 T A S GGGAAGGGGGAGGCGGACCCAGGTTGGGGGGGCAGGCAG
7692 T G S GGGAAGGGGGAGGCGGGCCCAGGTTGGGGGGGCAGGCAG
CCACACAGAGGCCCAGCGGCGGCACTGGGTGGTGGGGAAGGGGGAGGCGG[AG]CCCAGGTTGGGGGGGCAGGCAGTCAGTGCGGTTGCCAGGAAGCG
7692 IS [AG] GGAAAG
7731 I S AGGTCCTCAGGGGTCTGTTTCTGGCCCA
7731 P A S CGCGCCGAGGTGGCTAGGTGAGATGGTTA
7731 P G S CGCGCCGAGGCGGCTAGGTGAGATGGTY
7731 T A S CCGGTAACCATCTCACCTAGCCAGGGCCAGAAACAGACCCCTGAGGACCTGC
7731 T G S CCGGTAACCATCTCACCTAGCCGGGGCCAGAAACAGACCCCTGAGGACCTGC

FIGURE 129E

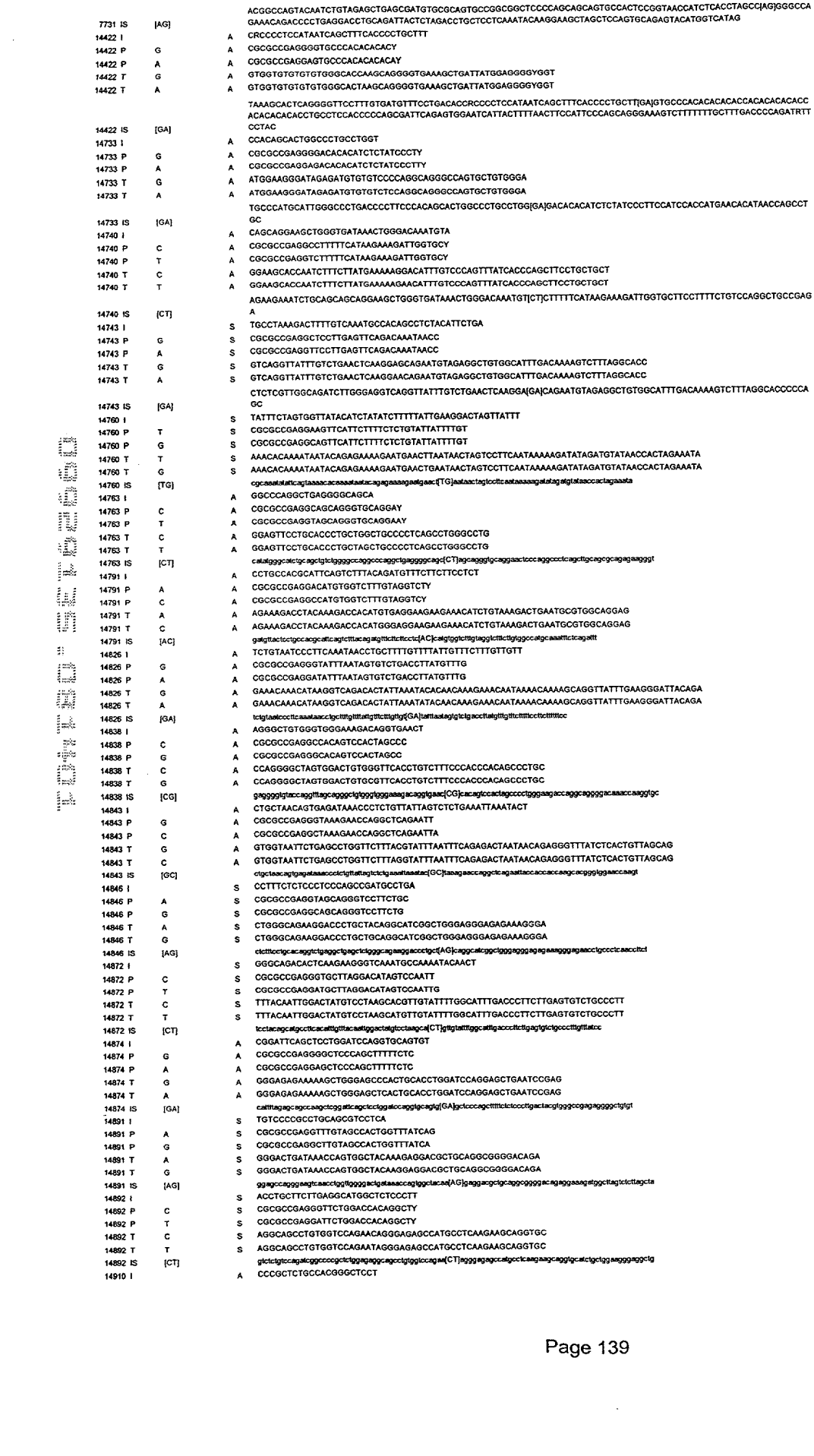

ACGGCCAGTACAATCTGTAGAGCTGAGCGATGTGCGCAGTGCCGGCGGCTCCCCAGCAGCAGTGCCACTCCGGTAACCATCTCACCTAGCC[AG]GGGCCA
7731 IS [AG] GAAACAGACCCCTGAGGACCTGCAGATTACTCTAGACCTGCTCCTCAAATACAAGGAAGCTAGCTCCAGTGCAGAGTACATGGTCATAG
14422 I A CRCCCCTCCATAATCAGCTTTCACCCCTGCTTT
14422 P G A CGCGCCGAGGGGTGCCCACACACACY
14422 P A A CGCGCCGAGGAGTGCCCACACACACAY
14422 T G A GTGGTGTGTGTGTGGGCACCAAGCAGGGGTGAAAGCTGATTATGGAGGGGYGGT
14422 T A A GTGGTGTGTGTGTGGGCACTAAGCAGGGGTGAAAGCTGATTATGGAGGGGYGGT
TAAAGCACTCAGGGGTTCCTTTGTGATGTTTCCTGACACCRCCCCTCCATAATCAGCTTTCACCCCTGCTT[GA]GTGCCCACACACACCACACACACACC
ACACACACACCTGCCTCCACCCCCAGCGATTCAGAGTGGAATCATTACTTTTAACTTCCATTCCCAGCAGGGAAAGTCTTTTTTTGCTTTGACCCCAGATRTT
14422 IS [GA] CCTAC
14733 I A CCACAGCACTGGCCCTGCCTGGT
14733 P G A CGCGCCGAGGGGACACACATCTCTATCCCTY
14733 P A A CGCGCCGAGGAGACACACATCTCTATCCCTTY
14733 T G A ATGGAAGGGATAGAGATGTGTGTCCCCAGGCAGGGCCAGTGCTGTGGGA
14733 T A A ATGGAAGGGATAGAGATGTGTGTCTCCAGGCAGGGCCAGTGCTGTGGGA
TGCCCATGCATTGGGCCCTGACCCCTTCCCACAGCACTGGCCCTGCCTGG[GA]GACACACATCTCTATCCCTTCCATCCACCATGAACACATAACCAGCCT
14733 IS [GA] GC
14740 I A CAGCAGGAAGCTGGGTGATAAACTGGGACAAATGTA
14740 P C A CGCGCCGAGGCCTTTTTCATAAGAAAGATTGGTGCY
14740 P T A CGCGCCGAGGTCTTTTTCATAAGAAAGATTGGTGCY
14740 T C A GGAAGCACCAATCTTTCTTATGAAAAAGGACATTTGTCCCAGTTTATCACCCAGCTTCCTGCTGCT
14740 T T A GGAAGCACCAATCTTTCTTATGAAAAAGAACATTTGTCCCAGTTTATCACCCAGCTTCCTGCTGCT
AGAAGAAATCTGCAGCAGCAGGAAGCTGGGTGATAAACTGGGACAAATGT[CT]CTTTTTCATAAGAAAGATTGGTGCTTCCTTTTCTGTCCAGGCTGCCGAG
14740 IS [CT] A
14743 I S TGCCTAAAGACTTTTGTCAAATGCCACAGCCTCTACATTCTGA
14743 P G S CGCGCCGAGGCTCCTTGAGTTCAGACAAATAACC
14743 P A S CGCGCCGAGGTTCCTTGAGTTCAGACAAATAACC
14743 T G S GTCAGGTTATTTGTCTGAACTCAAGGAGCAGAATGTAGAGGCTGTGGCATTTGACAAAAGTCTTTAGGCACC
14743 T A S GTCAGGTTATTTGTCTGAACTCAAGGAACAGAATGTAGAGGCTGTGGCATTTGACAAAAGTCTTTAGGCACC
CTCTCGTTGGCAGATCTTGGGAGGTCAGGTTATTTGTCTGAACTCAAGGA[GA]CAGAATGTAGAGGCTGTGGCATTTGACAAAAGTCTTTAGGCACCCCCA
14743 IS [GA] GC
14760 I S TATTTCTAGTGGTTATACATCTATATCTTTTTATTGAAGGACTAGTTATTT
14760 P T S CGCGCCGAGGAAGTTCATTCTTTTCTCTGTATTATTTTGT
14760 P G S CGCGCCGAGGCAGTTCATTCTTTTCTCTGTATTATTTTGT
14760 T T S AAACACAAAATAATACAGAGAAAAGAATGAACTTAATAACTAGTCCTTCAATAAAAAGATATAGATGTATAACCACTAGAAATA
14760 T G S AAACACAAAATAATACAGAGAAAAGAATGAACTGAATAACTAGTCCTTCAATAAAAAGATATAGATGTATAACCACTAGAAATA
14760 IS [TG] cgcaaatatatcagtaaaacacaaaatatatacagagaaaagaatgaac[TG]aataactagtccttcaataaaaagatatagatgtataaccactagaaata
14763 I A GGCCCAGGCTGAGGGGCAGCA
14763 P C A CGCGCCGAGGCAGCAGGGTGCAGGAY
14763 P T A CGCGCCGAGGTAGCAGGGTGCAGGAAY
14763 T C A GGAGTTCCTGCACCCTGCTGGCTGCCCCTCAGCCTGGGCCTG
14763 T T A GGAGTTCCTGCACCCTGCTAGCTGCCCCTCAGCCTGGGCCTG
14763 IS [CT] catatgggcatctgcagctgtctgggggccaggcccaggctgagggcagc[CT]agcagggtgcaggaactcccaggccctcagcttgcagcgcagagaagggt
14791 I A CCTGCCACGCATTCAGTCTTTACAGATGTTTCTTCTTCCTCT
14791 P A A CGCGCCGAGGACATGTGGTCTTTGTAGGTCTY
14791 P C A CGCGCCGAGGCCATGTGGTCTTTGTAGGTCY
14791 T A A AGAAAGACCTACAAAGACCACATGTGAGGAAGAAGAAACATCTGTAAAGACTGAATGCGTGGCAGGAG
14791 T C A AGAAAGACCTACAAAGACCACATGGGAGGAAGAAGAAACATCTGTAAAGACTGAATGCGTGGCAGGAG
14791 IS [AC] gatgttactcctgccacgcattcagtctttacagatgttctttcttcctc[AC]catgtggtcttttgtaggtcttctgtgggccatgcaaatttctcagattt
14826 I A TCTGTAATCCCTTCAAATAACCTGCTTTTGTTTTATTGTTTCTTTGTTGTT
14826 P G A CGCGCCGAGGGTATTTAATAGTGTCTGACCTTATGTTTG
14826 P A A CGCGCCGAGGATATTTAATAGTGTCTGACCTTATGTTTG
14826 T G A GAAACAAACATAAGGTCAGACACTATTAAATACACAACAAAGAAACAATAAAACAAAAGCAGGTTATTTGAAGGGATTACAGA
14826 T A A GAAACAAACATAAGGTCAGACACTATTAAATATACAACAAAGAAACAATAAAACAAAAGCAGGTTATTTGAAGGGATTACAGA
14826 IS [GA] tctgtaatcccttcaaataaccctgcttttgtttattgttcttttgtgt[GA]tatttaatagtgtctgacctatgttgttcttttcctcttttttcc
14838 I A AGGGCTGTGGGTGGGAAAGACAGGTGAACT
14838 P C A CGCGCCGAGGCCACAGTCCACTAGCCC
14838 P G A CGCGCCGAGGGCACAGTCCACTAGCC
14838 T C A CCAGGGGCTAGTGGACTGTGGGTTCACCTGTCTTTCCCACCCACAGCCCTGC
14838 T G A CCAGGGGCTAGTGGACTGTGCGTTCACCTGTCTTTCCCACCCACAGCCCTGC
14838 IS [CG] gaggggtgtaccaggttagcagggctgtgggtgggaaagacaggtgaac[CG]cacgtccactagccccctgggaagaccaggcaggggacaaaccaaggtgc
14843 I A CTGCTAACAGTGAGATAAACCCTCTGTTATTAGTCTCTGAAATTAAATACT
14843 P G A CGCGCCGAGGGTAAAGAACCAGGCTCAGAATT
14843 P C A CGCGCCGAGGCTAAAGAACCAGGCTCAGAATTA
14843 T G A GTGGTAATTCTGAGCCTGGTTCTTTACGTATTTAATTTCAGAGACTAATAACAGAGGGTTTATCTCACTGTTAGCAG
14843 T C A GTGGTAATTCTGAGCCTGGTTCTTTAGGTATTTAATTTCAGAGACTAATAACAGAGGGTTTATCTCACTGTTAGCAG
14843 IS [GC] ctgctaacagtgagataaacccctgttattagtctctgaaattaaatac[GC]taaagaaccaggctcagaattaccaccaccaagcacgggtggaaccaagt
14846 I S CCTTTCTCTCCCTCCCAGCCGATGCCTGA
14846 P A S CGCGCCGAGGTAGCAGGGTCCTTCTGC
14846 P G S CGCGCCGAGGCAGCAGGGTCCTTCTG
14846 T A S CTGGGCAGAAGGACCCTGCTACAGGCATCGGCTGGGAGGGAGAGAAAGGGA
14846 T G S CTGGGCAGAAGGACCCTGCTGCAGGCATCGGCTGGGAGGGAGAGAAAGGGA
14846 IS [AG] ctcttcctgcacaggtctgaggctgagctctgggcagaaggaccctgc[AG]caggcatcggctgggagggagagaaagggagaacctgccctcaacctct
14872 I S GGGCAGACACTCAAGAAGGGTCAAATGCCAAAATACAACT
14872 P C S CGCGCCGAGGGTGCTTAGGACATAGTCCAATT
14872 P T S CGCGCCGAGGATGCTTAGGACATAGTCCAATTG
14872 T C S TTTACAATTGGACTATGTCCTAAGCACGTTGTATTTTGGCATTTGACCCTTCTTGAGTGTCTGCCCTT
14872 T T S TTTACAATTGGACTATGTCCTAAGCATGTTGTATTTTGGCATTTGACCCTTCTTGAGTGTCTGCCCTT
14872 IS [CT] tcctacagcatgcctcacatttgtttacaattggactatgtcctaagca[CT]gttgtatttggcatttgacccttcttgagtgtctgcccttgtttatcc
14874 I A CGGATTCAGCTCCTGGATCCAGGTGCAGTGT
14874 P G A CGCGCCGAGGGGCTCCCAGCTTTTTCTC
14874 P A A CGCGCCGAGGAGCTCCCAGCTTTTTCTC
14874 T G A GGGAGAGAAAAAGCTGGGAGCCCACTGCACCTGGATCCAGGAGCTGAATCCGAG
14874 T A A GGGAGAGAAAAAGCTGGGAGCTCACTGCACCTGGATCCAGGAGCTGAATCCGAG
14874 IS [GA] catttagagcagccaagctcggattcagctcctggattccagggtgcagtg[GA]gctcccagcttttctctcccttgactacgtgggccgagaggggctgtgt
14891 I S TGTCCCCGCCTGCAGCGTCCTCA
14891 P A S CGCGCCGAGGTTTGTAGCCACTGGTTTATCAG
14891 P G S CGCGCCGAGGCTTGTAGCCACTGGTTTATCA
14891 T A S GGGACTGATAAACCAGTGGCTACAAAGAGGACGCTGCAGGCGGGGACAGA
14891 T G S GGGACTGATAAACCAGTGGCTACAAGGAGGACGCTGCAGGCGGGGACAGA
14891 IS [AG] ggagccagggaagtcaacctggtgggggactgataaaccagtggctacaa[AG]gaggacgctgcaggcggggacagaggaaagatggcttagtctcttagcta
14892 I S ACCTGCTTCTTGAGGCATGGCTCTCCCTT
14892 P C S CGCGCCGAGGGTTCTGGACCACAGGCTY
14892 P T S CGCGCCGAGGATTCTGGACCACAGGCTY
14892 T C S AGGCAGCCTGTGGTCCAGAACAGGGAGAGCCATGCCTCAAGAAGCAGGTGC
14892 T T S AGGCAGCCTGTGGTCCAGAATAGGGAGAGCCATGCCTCAAGAAGCAGGTGC
14892 IS [CT] gtctctgtccagatcggcccgctctggagaggcagcctgtggtccagaa[CT]agggagagccatgcctcaagaagcagggtgcatctgctggaagggaggctg
14910 I A CCCGCTCTGCCACGGGCTCCT

FIGURE 129E

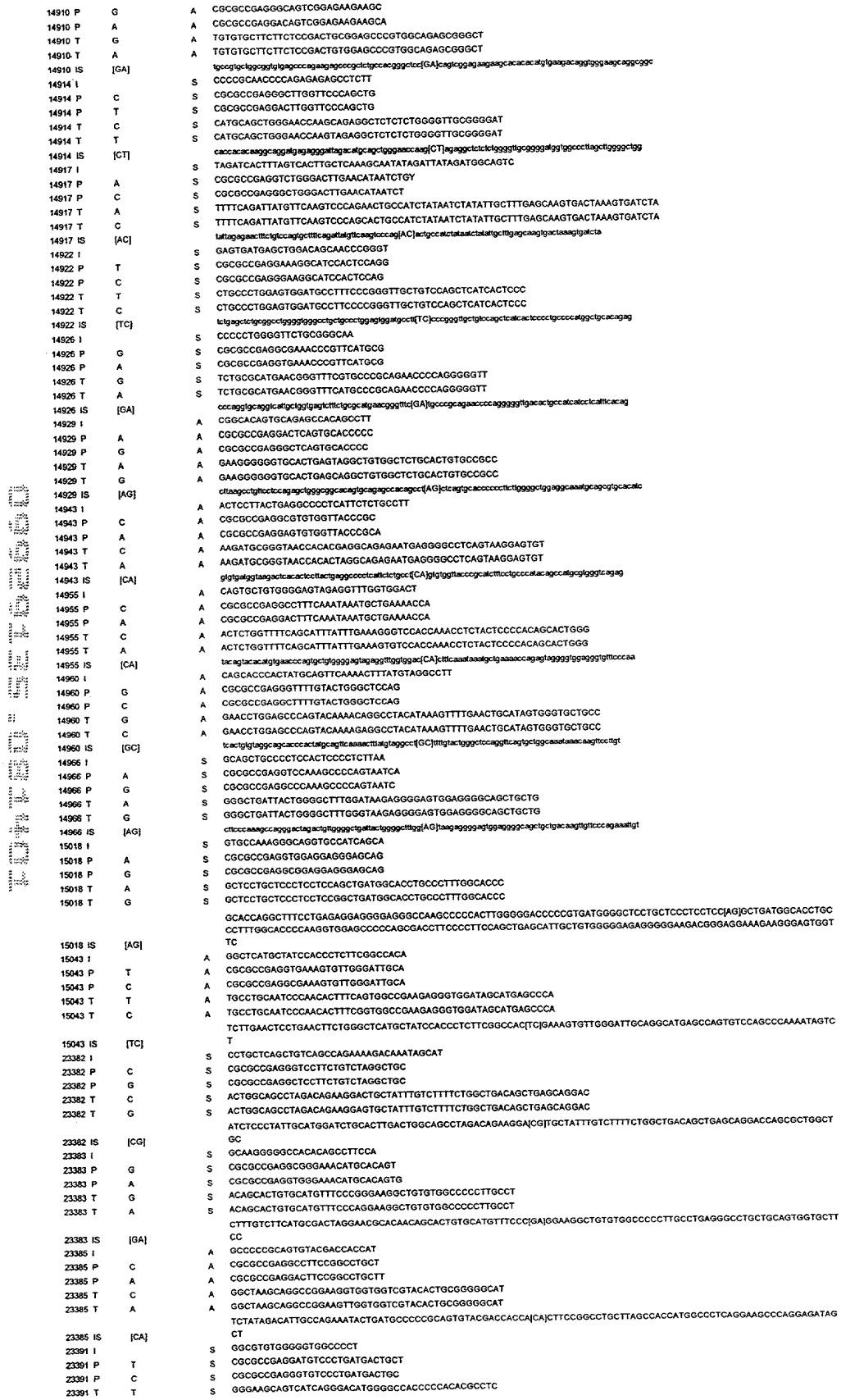

14910 P G A CGCGCCGAGGGCAGTCGGAGAAGAAGC
14910 P A A CGCGCCGAGGACAGTCGGAGAAGAAGCA
14910 T G A TGTGTGCTTCTTCTCCGACTGCGGAGCCCGTGGCAGAGCGGGCT
14910 T A A TGTGTGCTTCTTCTCCGACTGTGGAGCCCGTGGCAGAGCGGGCT
14910 IS [GA] tgccgtgctggcggtgtgtgagcccagaagagcccgctctgcccacgggctcc[GA]cagtcggagaagaagcacacacatgtgaagacaggtgggaagcaggcggc
14914 I S CCCCGCAACCCCAGAGAGAGCCTCTT
14914 P C S CGCGCCGAGGGCTTGGTTCCCAGCTG
14914 P T S CGCGCCGAGGACTTGGTTCCCAGCTG
14914 T C S CATGCAGCTGGGAACCAAGCAGAGGCTCTCTCTGGGGTTGCGGGGAT
14914 T T S CATGCAGCTGGGAACCAAGTAGAGGCTCTCTCTGGGGTTGCGGGGAT
14914 IS [CT] caccacacaaggcaggatgagagggattagacatgcagctgggaacccaag[CT]agaggctctctctgggggtgtgcggggatggtggcccttagcttgggcctgg
14917 I S TAGATCACTTTAGTCACTTGCTCAAAGCAATATAGATTATAGATGGCAGTC
14917 P A S CGCGCCGAGGTCTGGGACTTGAACATAATCTGY
14917 P C S CGCGCCGAGGGCTGGGACTTGAACATAATCT
14917 T A S TTTTCAGATTATGTTCAAGTCCCAGAACTGCCATCTATAATCTATATTGCTTTGAGCAAGTGACTAAAGTGATCTA
14917 T C S TTTTCAGATTATGTTCAAGTCCCAGCACTGCCATCTATAATCTATATTGCTTTGAGCAAGTGACTAAAGTGATCTA
14917 IS [AC] tattagagaacttctgtccagtgctttcagattatgttcaagtcccag[AC]actgccatctatatctatattgctttgagcaagtgactaaagtgatcta
14922 I S GAGTGATGAGCTGGACAGCAACCCGGGT
14922 P T S CGCGCCGAGGAAAGGCATCCACTCCAGG
14922 P C S CGCGCCGAGGGAAGGCATCCACTCCAG
14922 T T S CTGCCCTGGAGTGGATGCCTTTCCCGGGTTGCTGTCCAGCTCATCACTCCC
14922 T C S CTGCCCTGGAGTGGATGCCTTCCCCGGGTTGCTGTCCAGCTCATCACTCCC
14922 IS [TC] tctgagctctgcggcctgggggtgggcctgctgccctggagtggatgcctt[TC]cccgggttgctgtccagctcatcactccctgcccctggcctgcacagag
14926 I S CCCCCTGGGGTTCTGCGGGCAA
14926 P G S CGCGCCGAGGCGAAACCCGTTCATGCG
14926 P A S CGCGCCGAGGTGAAACCCGTTCATGCG
14926 T G S TCTGCGCATGAACGGGTTTCGTGCCCGCAGAACCCCAGGGGGTT
14926 T A S TCTGCGCATGAACGGGTTTCATGCCCGCAGAACCCCAGGGGGTT
14926 IS [GA] cccaggtgcaggtcatgctggtgagtctttctgcgcatgaacgggtttc[GA]tgcccgcagaacccaggggggttgacactgccatcatcctcatttcacag
14929 I A CGGCACAGTGCAGAGCCACAGCCTT
14929 P A A CGCGCCGAGGACTCAGTGCACCCCC
14929 P G A CGCGCCGAGGGCTCAGTGCACCCC
14929 T A A GAAGGGGGGTGCACTGAGTAGGCTGTGGCTCTGCACTGTGCCGCC
14929 T G A GAAGGGGGGTGCACTGAGCAGGCTGTGGCTCTGCACTGTGCCGCC
14929 IS [AG] cttaagcctgttcctccagagctgggcggcacagtgcagagccacagcct[AG]ctcagtgcaccccctcttggggctggaggcaaatgcagcgtgcacatc
14943 I A ACTCCTTACTGAGGCCCCTCATTCTCTGCCTT
14943 P C A CGCGCCGAGGCGTGTGGTTACCCGC
14943 P A A CGCGCCGAGGAGTGTGGTTACCCGCA
14943 T C A AAGATGCGGGTAACCACACGAGGCAGAGAATGAGGGGCCTCAGTAAGGAGTGT
14943 T A A AAGATGCGGGTAACCACACTAGGCAGAGAATGAGGGGCCTCAGTAAGGAGTGT
14943 IS [CA] gtgtgatggtaagactcacactcttactgaggcccctcattctctgcc[CA]gtgtggttacccgcatcttcctgcccatacagccatgcgtgggtcagag
14955 I A CAGTGCTGTGGGGAGTAGAGGTTTGGTGGACT
14955 P C A CGCGCCGAGGCCTTTCAAATAAATGCTGAAAACCA
14955 P A A CGCGCCGAGGACTTTCAAATAAATGCTGAAAACCA
14955 T C A ACTCTGGTTTTCAGCATTTATTTGAAAGGGTCCACCAAACCTCTACTCCCCACAGCACTGGG
14955 T A A ACTCTGGTTTTCAGCATTTATTTGAAAGTGTCCACCAAACCTCTACTCCCCACAGCACTGGG
14955 IS [CA] tacagtacacatgtgaacccagtgctgtgggagtagaggtttggtggac[CA]cttcaaataaatgctgaaaaccagagtaggggtggagggtgtttcccaa
14960 I A CAGCACCCACTATGCAGTTCAAAACTTTATGTAGGCCTT
14960 P G A CGCGCCGAGGGTTTTGTACTGGGCTCCAG
14960 P C A CGCGCCGAGGCTTTTGTACTGGGCTCCAG
14960 T G A GAACCTGGAGCCCAGTACAAAACAGGCCTACATAAAGTTTTGAACTGCATAGTGGGTGCTGCC
14960 T C A GAACCTGGAGCCCAGTACAAAAGAGGCCTACATAAAGTTTTGAACTGCATAGTGGGTGCTGCC
14960 IS [GC] tcactgtgtaggcagcacccactatgcagttcaaaacttttatgtaggcct[GC]tttgtactgggctccaggttcagtgctggcaaatataacaagttcttgt
14966 I S GCAGCTGCCCCTCCACTCCCCTCTTAA
14966 P A S CGCGCCGAGGTCCAAAGCCCCAGTAATCA
14966 P G S CGCGCCGAGGCCCAAAGCCCCAGTAATC
14966 T A S GGGCTGATTACTGGGGCTTTGGATAAGAGGGGAGTGGAGGGGCAGCTGCTG
14966 T G S GGGCTGATTACTGGGGCTTTGGGTAAGAGGGGAGTGGAGGGGCAGCTGCTG
14966 IS [AG] cttcccaaagccagggactagactgtggggctgattactggggcttggt[AG]taagaggggagtggaggggcagctgctgacaagttgttcccagaaattgt
15018 I S GTGCCAAAGGGCAGGTGCCATCAGCA
15018 P A S CGCGCCGAGGTGGAGGAGGGAGCAG
15018 P G S CGCGCCGAGGCGGAGGAGGGAGCAG
15018 T A S GCTCCTGCTCCCTCCTCCAGCTGATGGCACCTGCCCTTTGGCACCC
15018 T G S GCTCCTGCTCCCTCCTCCGGCTGATGGCACCTGCCCTTTGGCACCC
15018 IS [AG] GCACCAGGCTTTCCTGAGAGGAGGGGAGGGCCAAGCCCCCACTTGGGGGACCCCCGTGATGGGGCTCCTGCTCCCTCCTCC[AG]GCTGATGGCACCTGC CCTTTGGCACCCCAAGGTGGAGCCCCCAGCGACCTTCCCCTTCCAGCTGAGCATTGCTGTGGGGGAGAGGGGGAAGACGGGAGGAAAGAAGGGAGTGGT TC
15043 I A GGCTCATGCTATCCACCCTCTTCGGCCACA
15043 P T A CGCGCCGAGGTGAAAGTGTTGGGATTGCA
15043 P C A CGCGCCGAGGCGAAAGTGTTGGGATTGCA
15043 T T A TGCCTGCAATCCCAACACTTTCAGTGGCCGAAGAGGGTGGATAGCATGAGCCCA
15043 T C A TGCCTGCAATCCCAACACTTTCGGTGGCCGAAGAGGGTGGATAGCATGAGCCCA
15043 IS [TC] TCTTGAACTCCTGAACTTCTGGGCTCATGCTATCCACCCTCTTCGGCCAC[TC]GAAAGTGTTGGGATTGCAGGCATGAGCCAGTGTCCAGCCCAAAATAGTC T
23382 I S CCTGCTCAGCTGTCAGCCAGAAAAGACAAATAGCAT
23382 P C S CGCGCCGAGGGTCCTTCTGTCTAGGCTGC
23382 P G S CGCGCCGAGGCTCCTTCTGTCTAGGCTGC
23382 T C S ACTGGCAGCCTAGACAGAAGGAGTGCTATTTGTCTTTTCTGGCTGACAGCTGAGCAGGAC
23382 T G S ACTGGCAGCCTAGACAGAAGGAGTGCTATTTGTCTTTTCTGGCTGACAGCTGAGCAGGAC
23382 IS [CG] ATCTCCCTATTGCATGGATCTGCACTTGACTGGCAGCCTAGACAGAAGGA[CG]TGCTATTTGTCTTTTCTGGCTGACAGCTGAGCAGGACCAGCGCTGGCT GC
23383 I S GCAAGGGGGCCACACAGCCTTCCA
23383 P G S CGCGCCGAGGCGGGAAACATGCACAGT
23383 P A S CGCGCCGAGGTGGGAAACATGCACAGTG
23383 T G S ACAGCACTGTGCATGTTTCCCGGGAAGGCTGTGTGGCCCCCTTGCCT
23383 T A S ACAGCACTGTGCATGTTTCCCAGGAAGGCTGTGTGGCCCCCTTGCCT
23383 IS [GA] CTTTGTCTTCATGCGACTAGGAACGCACAACAGCACTGTGCATGTTTCCC[GA]GGAAGGCTGTGTGGCCCCCTTGCCTGAGGGCCTGCTGCAGTGGTGCTT CC
23385 I A GCCCCCGCAGTGTACGACCACCAT
23385 P C A CGCGCCGAGGCCTTCCGGCCTGCT
23385 P A A CGCGCCGAGGACTTCCGGCCTGCTT
23385 T C A GGCTAAGCAGGCCGGAAGGTGGTGGTCGTACACTGCGGGGGCAT
23385 T A A GGCTAAGCAGGCCGGAAGTTGGTGGTCGTACACTGCGGGGGCAT
23385 IS [CA] TCTATAGACATTGCCAGAAATACTGATGCCCCCGCAGTGTACGACCACCA[CA]CTTCCGGCCTGCTTAGCCACCATGGCCCTCAGGAAGCCCAGGAGATAG CT
23391 I S GGCGTGTGGGGGTGGCCCCT
23391 P T S CGCGCCGAGGATGTCCCTGATGACTGCT
23391 P C S CGCGCCGAGGGTGTCCCTGATGACTGC
23391 T T S GGGAAGCAGTCATCAGGGACATGGGGCCACCCCCACACGCCTC

FIGURE 129E

23391	T	C	S	GGGAAGCAGTCATCAGGGACACGGGGCCACCCCCACACGCCTC	
23391	IS	[TC]		TCCACAGCTGCTGCAGGGGTTTCTGGGGAGGGAAGCAGTCATCAGGGACA[TC]GGGGCCACCCCCACACGCCTCCCTTAGGAACATCTACCCCCAGGAACGCC	
23392	I		A	GCCTCTCATTGGCCAGCTCCTCCTTGGTT	
23392	P	A	A	CGCGCCGAGGATTCAGCACCAGCCG	
23392	P	G	A	CGCGCCGAGGGTTCAGCACCAGCCG	
23392	T	A	A	GGGGCGGCTGGTGCTGAATACCAAGGAGGAGCTGGCCAATGAGAGGCTC	
23392	T	G	A	GGGGCGGCTGGTGCTGAACACCAAGGAGGAGCTGGCCAATGAGAGGCTC	
23392	IS	[AG]		TCAGCGATTTTGAGCGTCATGAGCCTCTCATTGGCCAGCTCCTCCTTGGT[AG]TTCAGCACCAGCCGCCCCCCCAGCCGCATCATCTTTTCTTTCAACAACAG	CECR1
23393	I		A	CATGAAGGCCCCATGCCAGGGGCA	
23393	P	C	A	CGCGCCGAGGCGGGTACAGAGGAAAGCA	
23393	P	T	A	CGCGCCGAGGTGGGTACAGAGGAAAGCA	
23393	T	C	A	TGTGTGCTTTCCTCTGTACCCGGCCCCTGGCATGGGGCCTTCATGGA	
23393	T	T	A	TGTGTGCTTTCCTCTGTACCCAGCCCCTGGCATGGGGCCTTCATGGA	
23393	IS	[CT]		CAGATTCTCTAAATCTCCAGGACTCTCCATGAAGGCCCCATGCCAGGGGC[CT]GGGTACAGAGGAAAGCACACAGGGATGTGTCCCCTACCGCCACTCTTAAC	
23396	I		S	AAAACCTTAGAGTGTTTCTTGGCTCTGGAAGGCT	
23396	P	G	S	CGCGCCGAGGCCCACCCTTCAGGGGY	
23396	P	C	S	CGCGCCGAGGGCCACCCTTCAGGGGY	
23396	T	G	S	AGGTCCCCTGAAGGGTGGGGCCTTCCAGAGCCAAGAAACACTCTAAGGTTTTAT	
23396	T	C	S	AGGTCCCCTGAAGGGTGGCGCCTTCCAGAGCCAAGAAACACTCTAAGGTTTTAT	
23396	IS	[GC]		CTCACTGGCCTATCCTCAGACATCTTCCCTCTAGGTCCCCTGAAGGGTGG[GC]GCCTTCCAGAGCCAAGAAACACTCTAAGGTTTTATTTTTTATATTAAATC	
23401	I		A	CCATCACCTCTTGTTTCCCTGTCTGCCTCTCTTGA	
23401	P	T	A	CGCGCCGAGGTCCTTCCTGTGTGTTCTTG	
23401	P	C	A	CGCGCCGAGGCCCTTCCTGTGTGTTCTTG	
23401	T	T	A	AACCCAAGAACACACAGGAAGGCAAGAGAGGCAGACAGGGAAACAAGAGGTGATGGGG	
23401	T	C	A	AACCCAAGAACACACAGGAAGGGCAAGAGAGGCAGACAGGGAAACAAGAGGTGATGGGG	
23401	IS	[TC]		ACTGTGTGGAATCTCCCCATCACCTCTTGTTTCCCTGTCTGCCTCTCTTG[TC]CCTTCCTGTGTGTTCTTGGGTTGGCTGCAGAGCCAGGGTGATGACACTGT	
23405	I		S	GCTAAGGCACAGAGCGTGACCACAACAGGGA	
23405	P	A	S	CGCGCCGAGGTACTTCCAGCACAGCTGG	
23405	P	G	S	CGCGCCGAGGCACTTCCAGCACAGCTG	
23405	T	A	S	TGACCCAGCTGTGCTGGAAGTACCCTGTTGTGGTCACGCTCTGTGCCTTAGCCC	
23405	T	G	S	TGACCCAGCTGTGCTGGAAGTGCCCTGTTGTGGTCACGCTCTGTGCCTTAGCCC	
23405	IS	[AG]		CTGGGCCAGTGGCTTTGGATAGGGACCTCTGACCCAGCTGTGCTGGAAGT[AG]CCCTGTTGTGGTCACGCTCTGTGCCTTAGCCCCCCACCCCCTGGTCTCCC	
23410	I		A	AGAGGAGAGGGAGGTTGGCCCTGGGT	
23410	P	A	A	CGCGCCGAGGAACAGAGGAAGGCTGCA	
23410	P	G	A	CGCGCCGAGGGACAGAGGAAGGCTGCA	
23410	T	A	A	TTTGTGCAGCCTTCCTCTGTTCCCAGGGCCAACCTCCCTCTCCTCTGG	
23410	T	G	A	TTTGTGCAGCCTTCCTCTGTCCCCAGGGCCAACCTCCCTCTCCTCTGG	
23410	IS	[AG]		GTCCACAGGGATGCAGTGGGGACCCAGAGGAGAGGGAGGTTGGCCCTGGG[AG]ACAGAGGAAGGCTGCACAAAGGACCTGACTTTTTGCAGAAGGTGAAGGTT	
23425	I		S	GGGAAGAAAATTACTCCTGATTGACCTATTGACAGTATTAACCTACTATAT	
23425	P	T	S	CGCGCCGAGGAAAATTATTTGAGTTTTCTTTCCTTTCAATT	
23425	P	C	S	CGCGCCGAGGGAAATTATTTGAGTTTTCTTTCCTTTCAATT	
23425	T	T	S	AGAGAATTGAAAGGAAAGAAAACTCAAATAATTTTTATAGTAGGTTAATACTGTCAATAGGTCAATCAGGAGTAATTTTCTTCCC	
23425	T	C	S	AGAGAATTGAAAGGAAAGAAAACTCAAATAATTTCTATAGTAGGTTAATACTGTCAATAGGTCAATCAGGAGTAATTTTCTTCCC	
23425	IS	[TC]		ATGTGAAAACTACTTTAGAGAATTGAAAGGAAAGAAAACTCAAATAATTT[TC]TATAGTAGGTTAATACTGTCAATAGGTCAATCAGGAGTAATTTTCTTCCC	
23426	I		A	TCCTCTCCACTCAGGCCCCTCTGCACT	
23426	P	C	A	CGCGCCGAGGCTTGACCATCCCATGCC	
23426	P	A	A	CGCGCCGAGGATTGACCATCCCATGCC	
23426	T	C	A	ATGTGGCATGGGATGGTCAAGGTGCAGAGGGGCCTGAGTGGAGAGGAGG	
23426	T	A	A	ATGTGGCATGGGATGGTCAATGTGCAGAGGGGCCTGAGTGGAGAGGAGG	
23426	IS	[CA]		TCAGGAATGCATTTCTCTGGCCCCTCCTCTCCACTCAGGCCCCTCTGCAC[CA]TTGACCATCCCATGCCACATTTTTCCACTTTGCATTCCACATTCCAGCCC	
23428	I		A	ACAGGGAGCCAGAACGCAGGGCCC	
23428	P	T	A	CGCGCCGAGGTGGCAGGCTGTGCC	
23428	P	A	A	CGCGCCGAGGAGGCAGGCTGTGCC	
23428	T	T	A	ATCAGGCACAGCCTGCCAGGCCCTGCGTTCTGGCTCCCTGTTA	
23428	T	A	A	ATCAGGCACAGCCTGCCTGGCCCTGCGTTCTGGCTCCCTGTTA	
23428	IS	[TA]		GAGTAGGAAGGATGAGGTTATGAGGTAACAGGGAGCCAGAACGCAGGGCC[TA]GGCAGGCTGTGCCTGATAAAAAAGGCTTTGACTTTTATTCCTGGGAAGGT	
23433	I		A	TGACTTCTATCTATTGTGGAATATCAGCCATTTTTTCTCTGACTAGAGAAT	
23433	P	G	A	CGCGCCGAGGGTATTAAGTTAGTGGGGTAAATTGC	
23433	P	A	A	CGCGCCGAGGATATTAAGTTAGTGGGGTAAATTGCT	
23433	T	G	A	TCTAAGCAATTTACCCCACTAACTTAATACTTCTCTAGTCAGAGAAAAAATGGCTGATATTCCACAATAGATAGAAGTCA	
23433	T	A	A	TCTAAGCAATTTACCCCACTAACTTAATATTTCTCTAGTCAGAGAAAAAATGGCTGATATTCCACAATAGATAGAAGTCA	
23433	IS	[GA]		TGACTTCTATCTATTGTGGAATATCAGCCATTTTTTCTCTGACTAGAGAA[GA]TATTAAGTTAGTGGGGTAAATTGCTTAGAAGACAACCGCACCATTTACTC	
23437	I		S	AGAGCACATTGCATAGCTGCCAGTATGTCAAAAAAGCCT	
23437	P	T	S	CGCGCCGAGGAGCACTCCACAGTTCCT	
23437	P	C	S	CGCGCCGAGGGGCACTCCACAGTTCCT	
23437	T	T	S	ATAAAGGAACTGTGGAGTGCTGGCTTTTTTGACATACTGGCAGCTATGCAATGTGCTCTGC	
23437	T	C	S	ATAAAGGAACTGTGGAGTGCCGGCTTTTTTGACATACTGGCAGCTATGCAATGTGCTCTGC	
23437	IS	[TC]		AGCCACAGATCCTGGAGTTATAAGTATTGCATAAAGGAACTGTGGAGTGC[TC]GGCTTTTTTGACATACTGGCAGCTATGCAATGTGCTCTGCATACAGTCTC	
23442	I		S	AGCAGGGGAGGGAGAAGGGTGGTGTTA	
23442	P	A	S	CGCGCCGAGGTAAAGTGTCACTGTGGGCY	
23442	P	G	S	CGCGCCGAGGCAAAGTGTCACTGTGGGCY	
23442	T	A	S	CCCGGCCCACAGTGACACTTTAAACACCACCCTTCTCCCTCCCCTGCTTC	
23442	T	G	S	CCCGGCCCACAGTGACACTTTGAACACCACCCTTCTCCCTCCCCTGCTTC	
23442	IS	[AG]		TACTGGGATTACAGGCCTGAGCCACCACGCCCGGCCCACAGTGACACTTT[AG]AACACCACCCTTCTCCCTCCCCTGCTTCACTCACACCCCGCAGCTGCTCC	
23443	I		A	CCTCAAGGAGCCTCCTCAAGGCATATCTGACCCA	
23443	P	C	A	CGCGCCGAGGCGTCCCATTAAACCTCCAG	
23443	P	T	A	CGCGCCGAGGTGTCCCATTAAACCTCCAGT	
23443	T	C	A	AGCCACTGGAGGTTTAATGGGACGGGGTCAGATATGCCTTGAGGAGGCTCCTTGAGGGT	
23443	T	T	A	AGCCACTGGAGGTTTAATGGGACAGGGTCAGATATGCCTTGAGGAGGCTCCTTGAGGGT	
23443	IS	[CT]		GTGGGCTCAAGCAGGACCCTCAAGGAGCCTCCTCAAGGCATATCTGACCC[CT]GTCCCATTAAACCTCCAGTGGCTCCCACGGACCAAAGGAGATGGTCCCAG	
23455	I		A	ACCTAAGCCCTTCAAGCAAATCTTACAAAAACCATCAGA	
23455	P	T	A	CGCGCCGAGGTTGATTTTTATCACCACTGTCCT	
23455	P	C	A	CGCGCCGAGGCTGATTTTTATCACCACTGTCCT	
23455	T	T	A	TCTGAGGACAGTGGTGATAAAAATCAACTGATGGTTTTTGTAAGATTTGCTTGAAGGGCTTAGGTAA	
23455	T	C	A	TCTGAGGACAGTGGTGATAAAAATCAGCTGATGGTTTTTGTAAGATTTGCTTGAAGGGCTTAGGTAA	

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FIGURE 129E

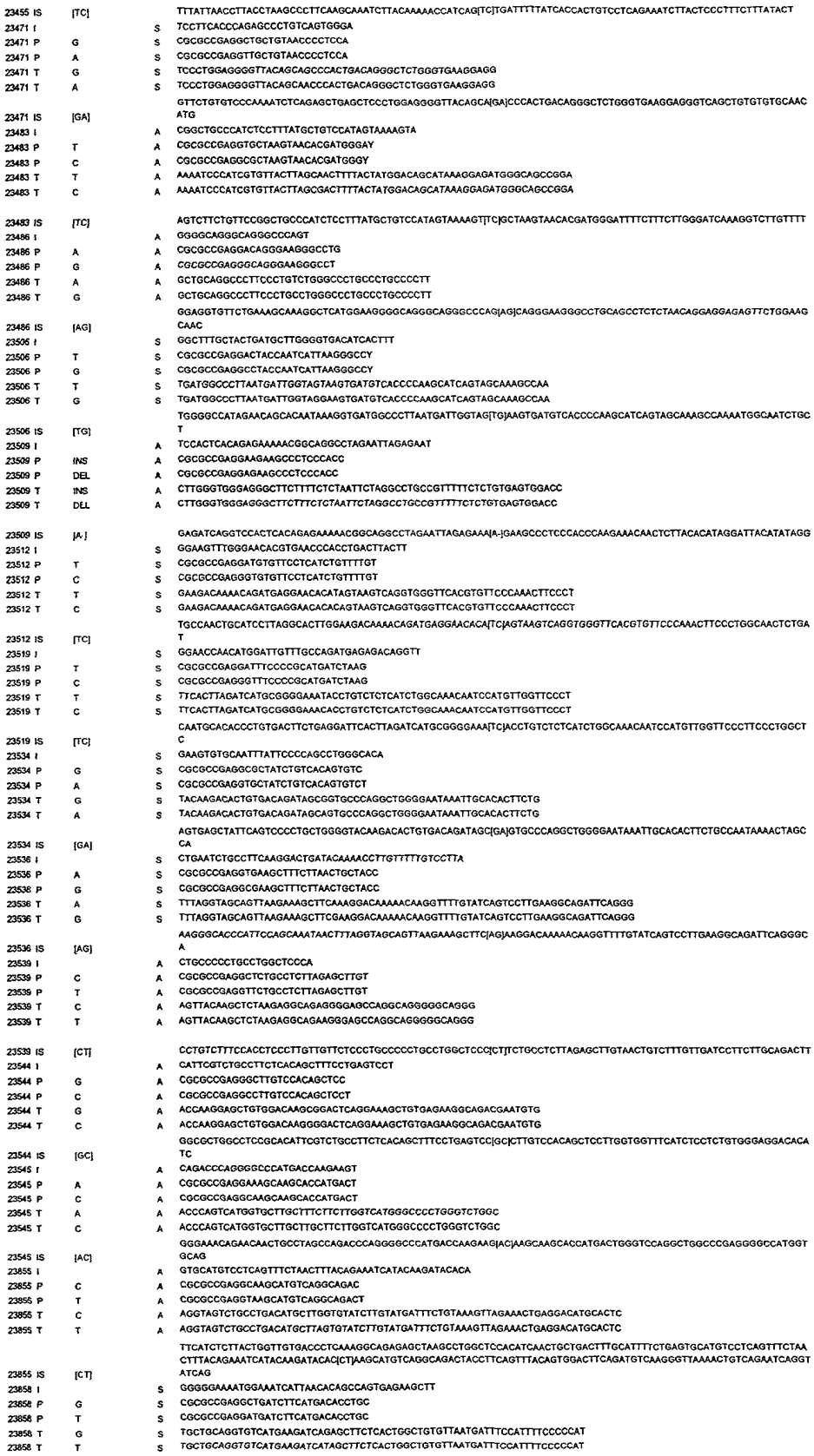

23455 IS [TC] TTTATTAACCTTACCTAAGCCCTTCAAGCAAATCTTACAAAAACCATCAG[TC]TGATTTTTATCACCACTGTCCTCAGAAATCTTACTCCCTTTCTTTATACT
23471 I S TCCTTCACCCAGAGCCCTGTCAGTGGGA
23471 P G S CGCGCCGAGGCTGCTGTAACCCCTCCA
23471 P A S CGCGCCGAGGTTGCTGTAACCCCTCCA
23471 T G S TCCCTGGAGGGGTTACAGCAGCCCACTGACAGGGCTCTGGGTGAAGGAGG
23471 T A S TCCCTGGAGGGGTTACAGCAACCCACTGACAGGGCTCTGGGTGAAGGAGG
23471 IS [GA] GTTCTGTGTCCCAAAATCTCAGAGCTGAGCTCCCTGGAGGGGTTACAGCA[GA]CCCACTGACAGGGCTCTGGGTGAAGGAGGGTCAGCTGTGTGTGCAACATG
23483 I A CGGCTGCCCATCTCCTTTATGCTGTCCATAGTAAAAGTA
23483 P T A CGCGCCGAGGTGCTAAGTAACACGATGGGAY
23483 P C A CGCGCCGAGGCGCTAAGTAACACGATGGGY
23483 T T A AAAATCCCATCGTGTTACTTAGCAACTTTTACTATGGACAGCATAAAGGAGATGGGCAGCCGGA
23483 T C A AAAATCCCATCGTGTTACTTAGCGACTTTTACTATGGACAGCATAAAGGAGATGGGCAGCCGGA
23483 IS [TC] AGTCTTCTGTTCCGGCTGCCCATCTCCTTTATGCTGTCCATAGTAAAAGT[TC]GCTAAGTAACACGATGGGATTTTCTTTCTTGGGATCAAAGGTCTTGTTTT
23486 I A GGGGCAGGGCAGGGCCCAGT
23486 P A A CGCGCCGAGGACAGGGAAGGGCCTG
23486 P G A CGCGCCGAGGGCAGGGAAGGGCCT
23486 T A A GCTGCAGGCCCTTCCCTGTCTGGGCCCTGCCCTGCCCCTT
23486 T G A GCTGCAGGCCCTTCCCTGCCTGGGCCCTGCCCTGCCCCTT
23486 IS [AG] GGAGGTGTTCTGAAAGCAAAGGCTCATGGAAGGGCAGGGCAGGGCCCAG[AG]CAGGGAAGGGCCTGCAGCCTCTCTAACAGGAGGAGAGTTCTGGAAGCAAC
23506 I S GGCTTTGCTACTGATGCTTGGGGTGACATCACTTT
23506 P T S CGCGCCGAGGACTACCAATCATTAAGGGCCY
23506 P G S CGCGCCGAGGCCTACCAATCATTAAGGGCCY
23506 T T S TGATGGCCCTTAATGATTGGTAGTAAGTGATGTCACCCCAAGCATCAGTAGCAAAGCCAA
23506 T G S TGATGGCCCTTAATGATTGGTAGGAAGTGATGTCACCCCAAGCATCAGTAGCAAAGCCAA
23506 IS [TG] TGGGGCCATAGAACAGCACAATAAAGGTGATGGCCCTTAATGATTGGTAG[TG]AAGTGATGTCACCCCAAGCATCAGTAGCAAAGCCAAAATGGCAATCTGCT
23509 I A TCCACTCACAGAGAAAAACGGCAGGCCTAGAATTAGAGAAT
23509 P INS A CGCGCCGAGGAAGAAGCCCTCCCACC
23509 P DEL A CGCGCCGAGGAGAAGCCCTCCCACC
23509 T INS A CTTGGGTGGGAGGGCTTCTTTTCTCTAATTCTAGGCCTGCCGTTTTTCTCTGTGAGTGGACC
23509 T DEL A CTTGGGTGGGAGGGCTTCTTTTCTCTAATTCTAGGCCTGCCGTTTTTCTCTGTGAGTGGACC
23509 IS [A-] GAGATCAGGTCCACTCACAGAGAAAAACGGCAGGCCTAGAATTAGAGAAA[A-]GAAGCCCTCCCACCCAAGAAACAACTCTTACACATAGGATTACATATAGG
23512 I S GGAAGTTTGGGAACACGTGAACCCACCTGACTTACTT
23512 P T S CGCGCCGAGGATGTGTTCCTCATCTGTTTTGT
23512 P C S CGCGCCGAGGGTGTGTTCCTCATCTGTTTTGT
23512 T T S GAAGACAAAACAGATGAGGAACACATAGTAAGTCAGGTGGGTTCACGTGTTCCCAAACTTCCCT
23512 T C S GAAGACAAAACAGATGAGGAACACACAGTAAGTCAGGTGGGTTCACGTGTTCCCAAACTTCCCT
23512 IS [TC] TGCCAACTGCATCCTTAGGCACTTGGAAGACAAAACAGATGAGGAACACA[TC]AGTAAGTCAGGTGGGTTCACGTGTTCCCAAACTTCCCTGGCAACTCTGAT
23519 I S GGAACCAACATGGATTGTTTGCCAGATGAGAGACAGGTT
23519 P T S CGCGCCGAGGATTTCCCCGCATGATCTAAG
23519 P C S CGCGCCGAGGGTTTCCCCGCATGATCTAAG
23519 T T S TTCACTTAGATCATGCGGGGAAATACCTGTCTCTCATCTGGCAAACAATCCATGTTGGTTCCCT
23519 T C S TTCACTTAGATCATGCGGGGAAACACCTGTCTCTCATCTGGCAAACAATCCATGTTGGTTCCCT
23519 IS [TC] CAATGCACACCCTGTGACTTCTGAGGATTCACTTAGATCATGCGGGGAAA[TC]ACCTGTCTCTCATCTGGCAAACAATCCATGTTGGTTCCCTTCCCTGGCTC
23534 I S GAAGTGTGCAATTTATTCCCCAGCCTGGGCACA
23534 P G S CGCGCCGAGGCGCTATCTGTCACAGTGTC
23534 P A S CGCGCCGAGGTGCTATCTGTCACAGTGTCT
23534 T G S TACAAGACACTGTGACAGATAGCGGTGCCCAGGCTGGGGAATAAATTGCACACTTCTG
23534 T A S TACAAGACACTGTGACAGATAGCAGTGCCCAGGCTGGGGAATAAATTGCACACTTCTG
23534 IS [GA] AGTGAGCTATTCAGTCCCCTGCTGGGGTACAAGACACTGTGACAGATAGC[GA]GTGCCCAGGCTGGGGAATAAATTGCACACTTCTGCCAATAAAACTAGCCA
23536 I S CTGAATCTGCCTTCAAGGACTGATACAAAACCTTGTTTTTGTCCTTA
23536 P A S CGCGCCGAGGTGAAGCTTTCTTAACTGCTACC
23536 P G S CGCGCCGAGGCGAAGCTTTCTTAACTGCTACC
23536 T A S TTTAGGTAGCAGTTAAGAAAGCTTCAAAGGACAAAAACAAGGTTTTGTATCAGTCCTTGAAGGCAGATTCAGGG
23536 T G S TTTAGGTAGCAGTTAAGAAAGCTTCGAAGGACAAAAACAAGGTTTTGTATCAGTCCTTGAAGGCAGATTCAGGG
23536 IS [AG] AAGGGCACCCATTCCAGCAAATAACTTTAGGTAGCAGTTAAGAAAGCTTC[AG]AAGGACAAAAACAAGGTTTTGTATCAGTCCTTGAAGGCAGATTCAGGGCA
23539 I A CTGCCCCCTGCCTGGCTCCCA
23539 P C A CGCGCCGAGGCTCTGCCTCTTAGAGCTTGT
23539 P T A CGCGCCGAGGTTCTGCCTCTTAGAGCTTGT
23539 T C A AGTTACAAGCTCTAAGAGGCAGAGGGGAGCCAGGCAGGGGGCAGGG
23539 T T A AGTTACAAGCTCTAAGAGGCAGAAGGGAGCCAGGCAGGGGGCAGGG
23539 IS [CT] CCTGTCTTTCCACCTCCCTTGTTGTTCTCCCTGCCCCCTGCCTGGCTCCC[CT]TCTGCCTCTTAGAGCTTGTAACTGTCTTTGTTGATCCTTCTTGCAGACTT
23544 I A CATTCGTCTGCCTTCTCACAGCTTTCCTGAGTCCT
23544 P G A CGCGCCGAGGGCTTGTCCACAGCTCC
23544 P C A CGCGCCGAGGCCTTGTCCACAGCTCCT
23544 T G A ACCAAGGAGCTGTGGACAAGCGGACTCAGGAAAGCTGTGAGAAGGCAGACGAATGTG
23544 T C A ACCAAGGAGCTGTGGACAAGGGGACTCAGGAAAGCTGTGAGAAGGCAGACGAATGTG
23544 IS [GC] GGCGCTGGCCTCCGCACATTCGTCTGCCTTCTCACAGCTTTCCTGAGTCC[GC]CTTGTCCACAGCTCCTTGGTGGTTTCATCTCCTCTGTGGGAGGACACATC
23545 I A CAGACCCAGGGGCCCATGACCAAGAAGT
23545 P A A CGCGCCGAGGAAAGCAAGCACCATGACT
23545 P C A CGCGCCGAGGCAAGCAAGCACCATGACT
23545 T A A ACCCAGTCATGGTGCTTGCTTTCTTCTTGGTCATGGGCCCCTGGGTCTGGC
23545 T C A ACCCAGTCATGGTGCTTGCTTGCTTCTTGGTCATGGGCCCCTGGGTCTGGC
23545 IS [AC] GGGAAACAGAACAACTGCCTAGCCAGACCCAGGGGCCCATGACCAAGAAG[AC]AAGCAAGCACCATGACTGGGTCCAGGCTGGCCCGAGGGGCCATGGTGCAG
23855 I A GTGCATGTCCTCAGTTTCTAACTTTACAGAAATCATACAAGATACACA
23855 P C A CGCGCCGAGGCAAGCATGTCAGGCAGAC
23855 P T A CGCGCCGAGGTAAGCATGTCAGGCAGACT
23855 T C A AGGTAGTCTGCCTGACATGCTTGGTGTATCTTGTATGATTTCTGTAAAGTTAGAAACTGAGGACATGCACTC
23855 T T A AGGTAGTCTGCCTGACATGCTTAGTGTATCTTGTATGATTTCTGTAAAGTTAGAAACTGAGGACATGCACTC
23855 IS [CT] TTCATCTCTTACTGGTTGTGACCCTCAAAGGCAGAGAGCTAAGCCTGGCTCCACATCAACTGCTGACTTTGCATTTTCTGAGTGCATGTCCTCAGTTTCTAACTTTACAGAAATCATACAAGATACAC[CT]AAGCATGTCAGGCAGACTACCTTCAGTTTACAGTGGACTTCAGATGTCAAGGGTTAAAACTGTCAGAATCAGGTATCAG
23858 I S GGGGGAAAATGGAAATCATTAACACAGCCAGTGAGAAGCTT
23858 P G S CGCGCCGAGGCTGATCTTCATGACACCTGC
23858 P T S CGCGCCGAGGATGATCTTCATGACACCTGC
23858 T G S TGCTGCAGGTGTCATGAAGATCAGAGCTTCTCACTGGCTGTGTTAATGATTTCCATTTTCCCCCAT
23858 T T S TGCTGCAGGTGTCATGAAGATCATAGCTTCTCACTGGCTGTGTTAATGATTTCCATTTTCCCCCAT

FIGURE 129E

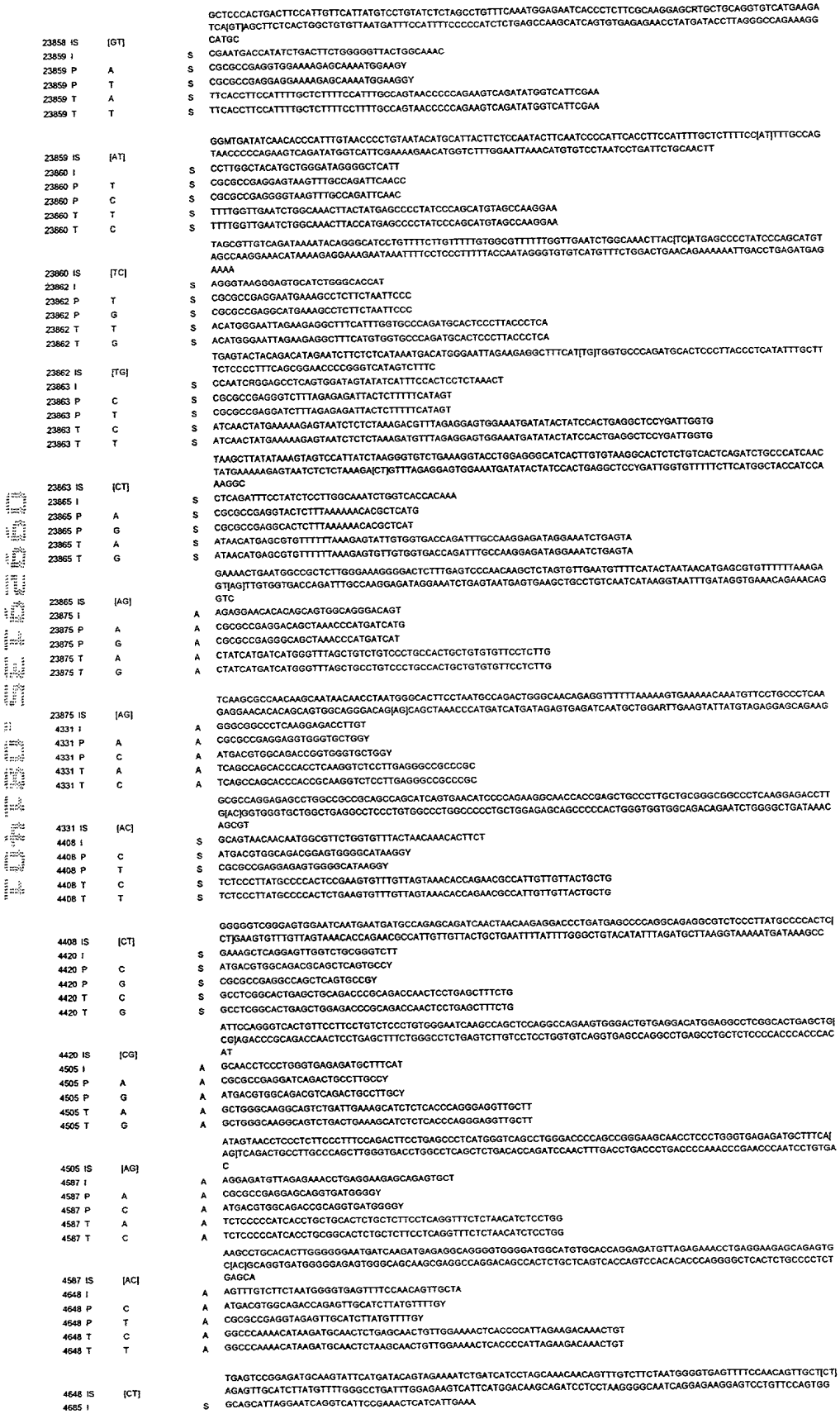

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23858 IS [GT]
CATGC
23859 I S CGAATGACCATATCTGACTTCTGGGGGTTACTGGCAAAC
23859 P A S CGCGCCGAGGTGGAAAAGAGCAAAATGGAAGY
23859 P T S CGCGCCGAGGAGGAAAAGAGCAAAATGGAAGGY
23859 T A S TTCACCTTCCATTTTGCTCTTTTCCATTTGCCAGTAACCCCCAGAAGTCAGATATGGTCATTCGAA
23859 T T S TTCACCTTCCATTTTGCTCTTTTCCTTTTGCCAGTAACCCCCAGAAGTCAGATATGGTCATTCGAA
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TAACCCCCAGAAGTCAGATATGGTCATTCGAAAAGAACATGGTCTTTGGAATTAAACATGTGTCCTAATCCTGATTCTGCAACTT
23859 IS [AT]
23860 I S CCTTGGCTACATGCTGGGATAGGGGCTCATT
23860 P T S CGCGCCGAGGAGTAAGTTTGCCAGATTCAACC
23860 P C S CGCGCCGAGGGGTAAGTTTGCCAGATTCAAC
23860 T T S TTTTGGTTGAATCTGGCAAACTTACCATGAGCCCCTATCCCAGCATGTAGCCAAGGAA
23860 T C S TTTTGGTTGAATCTGGCAAACTTACCATGAGCCCCTATCCCAGCATGTAGCCAAGGAA
TAGCGTTGTCAGATAAAATACAGGGCATCCTGTTTTCTTGTTTTTGTGGCGTTTTTTGGTTGAATCTGGCAAACTTAC[TC]ATGAGCCCCTATCCCAGCATGT
AGCCAAGGAAACATAAAAGAGGAAAGAATAAATTTTCCTCCCTTTTTACCAATAGGGTGTGTCATGTTTCTGGACTGAACAGAAAAAATTGACCTGAGATGAG
23860 IS [TC]
AAAA
23862 I S AGGGTAAGGGAGTGCATCTGGGCACCAT
23862 P T S CGCGCCGAGGAATGAAAGCCTCTTCTAATTCCC
23862 P G S CGCGCCGAGGCATGAAAGCCTCTTCTAATTCCC
23862 T T S ACATGGGAATTAGAAGAGGCTTTCATTTGGTGCCCAGATGCACTCCCTTACCCTCA
23862 T G S ACATGGGAATTAGAAGAGGCTTTCATGTGGTGCCCAGATGCACTCCCTTACCCTCA
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23862 IS [TG]
23863 I S CCAATCRGGAGCCTCAGTGGATAGTATATCATTTCCACTCCTCTAAACT
23863 P C S CGCGCCGAGGGTCTTTAGAGAGATTACTCTTTTTCATAGT
23863 P T S CGCGCCGAGGATCTTTAGAGAGATTACTCTTTTTCATAGT
23863 T C S ATCAACTATGAAAAAGAGTAATCTCTCTAAAGACGTTTAGAGGAGTGGAAATGATATACTATCCACTGAGGCTCCYGATTGGTG
23863 T T S ATCAACTATGAAAAAGAGTAATCTCTCTAAAGATGTTTAGAGGAGTGGAAATGATATACTATCCACTGAGGCTCCYGATTGGTG
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23863 IS [CT]
AAGGC
23865 I S CTCAGATTTCCTATCTCCTTGGCAAATCTGGTCACCACAAA
23865 P A S CGCGCCGAGGTACTCTTTAAAAAACACGCTCATG
23865 P G S CGCGCCGAGGCACTCTTTAAAAAACACGCTCAT
23865 T A S ATAACATGAGCGTGTTTTTTAAAGAGTATTGTGGTGACCAGATTTGCCAAGGAGATAGGAAATCTGAGTA
23865 T G S ATAACATGAGCGTGTTTTTTAAAGAGTGTTGTGGTGACCAGATTTGCCAAGGAGATAGGAAATCTGAGTA
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GT[AG]TTGTGGTGACCAGATTTGCCAAGGAGATAGGAAATCTGAGTAATGAGTGAAGCTGCCTGTCAATCATAAGGTAATTTGATAGGTGAAACAGAAACAG
23865 IS [AG]
GTC
23875 I A AGAGGAACACACAGCAGTGGCAGGGACAGT
23875 P A A CGCGCCGAGGACAGCTAAACCCATGATCATG
23875 P G A CGCGCCGAGGGCAGCTAAACCCATGATCAT
23875 T A A CTATCATGATCATGGGTTTAGCTGTCTGTCCCTGCCACTGCTGTGTGTTCCTCTTG
23875 T G A CTATCATGATCATGGGTTTAGCTGCCTGTCCCTGCCACTGCTGTGTGTTCCTCTTG
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23875 IS [AG]
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4331 I A GGGCGGCCCTCAAGGAGACCTTGT
4331 P A A CGCGCCGAGGAGGTGGGTGCTGGY
4331 P C A ATGACGTGGCAGACCGGTGGGTGCTGGY
4331 T A A TCAGCCAGCACCCACCTCAAGGTCTCCTTGAGGGCCGCCCGC
4331 T C A TCAGCCAGCACCCACCGCAAGGTCTCCTTGAGGGCCGCCCGC
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G[AC]GGTGGGTGCTGGCTGAGGCCTCCCTGTGGCCCTGGCCCCCTGCTGGAGAGCAGCCCCCACTGGGTGGTGGCAGACAGAATCTGGGGCTGATAAAC
4331 IS [AC]
AGCGT
4408 I S GCAGTAACAACAATGGCGTTCTGGTGTTTACTAACAAACACTTCT
4408 P C S ATGACGTGGCAGACGGAGTGGGGCATAAGGY
4408 P T S CGCGCCGAGGAGAGTGGGGCATAAGGY
4408 T C S TCTCCCTTATGCCCCACTCCGAAGTGTTTGTTAGTAAACACCAGAACGCCATTGTTGTTACTGCTG
4408 T T S TCTCCCTTATGCCCCACTCTGAAGTGTTTGTTAGTAAACACCAGAACGCCATTGTTGTTACTGCTG
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CT]GAAGTGTTTGTTAGTAAACACCAGAACGCCATTGTTGTTACTGCTGAATTTTATTTTGGGCTGTACATATTTAGATGCTTAAGGTAAAAATGATAAAGCC
4408 IS [CT]
4420 I S GAAAGCTCAGGAGTTGGTCTGCGGGTCTT
4420 P C S ATGACGTGGCAGACGCAGCTCAGTGCCY
4420 P G S CGCGCCGAGGCCAGCTCAGTGCCGY
4420 T C S GCCTCGGCACTGAGCTGCAGACCCGCAGACCAACTCCTGAGCTTTCTG
4420 T G S GCCTCGGCACTGAGCTGGAGACCCGCAGACCAACTCCTGAGCTTTCTG
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CG]AGACCCGCAGACCAACTCCTGAGCTTTCTGGGCCTCTGAGTCTTGTCCTCCTGGTGTCAGGTGAGCCAGGCCTGAGCCTGCTCTCCCCACCCACCCAC
4420 IS [CG]
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4505 I A GCAACCTCCCTGGGTGAGAGATGCTTTCAT
4505 P A A CGCGCCGAGGATCAGACTGCCTTGCCY
4505 P G A ATGACGTGGCAGACGTCAGACTGCCTTGCY
4505 T A A GCTGGGCAAGGCAGTCTGATTGAAAGCATCTCTCACCCAGGGAGGTTGCTT
4505 T G A GCTGGGCAAGGCAGTCTGACTGAAAGCATCTCTCACCCAGGGAGGTTGCTT
ATAGTAACCTCCCTCTTCCCTTTCCAGACTTCCTGAGCCCTCATGGGTCAGCCTGGGACCCCAGCCGGGAAGCAACCTCCCTGGGTGAGAGATGCTTTCA[
AG]TCAGACTGCCTTGCCCAGCTTGGGTGACCTGGCCTCAGCTCTGACACCAGATCCAACTTTGACCTGACCCTGACCCCAAACCCGAACCCAATCCTGTGA
4505 IS [AG]
C
4587 I A AGGAGATGTTAGAGAAACCTGAGGAAGAGCAGAGTGCT
4587 P A A CGCGCCGAGGAGCAGGTGATGGGGY
4587 P C A ATGACGTGGCAGACCGCAGGTGATGGGGY
4587 T A A TCTCCCCCATCACCTGCTGCACTCTGCTCTTCCTCAGGTTTCTCTAACATCTCCTGG
4587 T C A TCTCCCCCATCACCTGCGGCACTCTGCTCTTCCTCAGGTTTCTCTAACATCTCCTGG
AAGCCTGCACACTTGGGGGGAATGATCAAGATGAGAGGCAGGGGTGGGGATGGCATGTGCACCAGGAGATGTTAGAGAAACCTGAGGAAGAGCAGAGTG
C[AC]GCAGGTGATGGGGGAGAGTGGGCAGCAAGCGAGGCCAGGACAGCCACTCTGCTCAGTCACCAGTCCACACACCCAGGGGCTCACTCTGCCCCTCT
4587 IS [AC]
GAGCA
4648 I A AGTTTGTCTTCTAATGGGGTGAGTTTTCCAACAGTTGCTA
4648 P C A ATGACGTGGCAGACCAGAGTTGCATCTTATGTTTTGY
4648 P T A CGCGCCGAGGTAGAGTTGCATCTTATGTTTTGY
4648 T C A GGCCCAAAACATAAGATGCAACTCTGAGCAACTGTTGGAAAACTCACCCCATTAGAAGACAAACTGT
4648 T T A GGCCCAAAACATAAGATGCAACTCTAAGCAACTGTTGGAAAACTCACCCCATTAGAAGACAAACTGT
TGAGTCCGGAGATGCAAGTATTCATGATACAGTAGAAAATCTGATCATCCTAGCAAACAACAGTTTGTCTTCTAATGGGGTGAGTTTTCCAACAGTTGCT[CT]
AGAGTTGCATCTTATGTTTTGGGCCTGATTTGGAGAAGTCATTCATGGACAAGCAGATCCTCCTAAGGGGCAATCAGGAGAAGGAGTCCTGTTCCAGTGG
4648 IS [CT]
4685 I S GCAGCATTAGGAATCAGGTCATTCCGAAACTCATCATTGAAA

FIGURE 129E

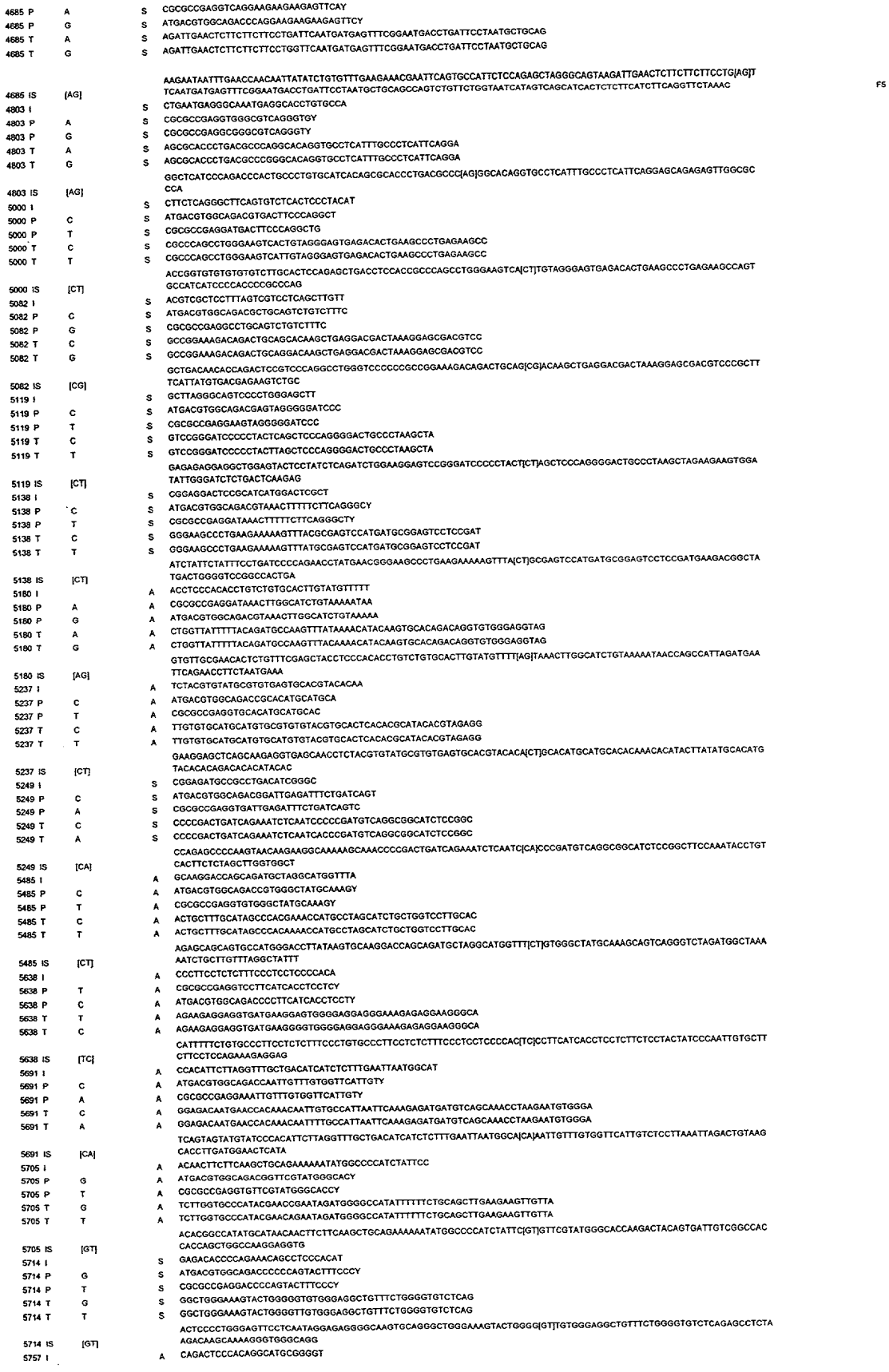

4685 P A S CGCGCCGAGGTCAGGAAGAAGAAGAGTTCAY
4685 P G S ATGACGTGGCAGACCCAGGAAGAAGAAGAGTTCY
4685 T A S AGATTGAACTCTTCTTCTTCCTGATTCAATGATGAGTTTCGGAATGACCTGATTCCTAATGCTGCAG
4685 T G S AGATTGAACTCTTCTTCTTCCTGGTTCAATGATGAGTTTCGGAATGACCTGATTCCTAATGCTGCAG
AAGAATAATTTGAACCAACAATTATATCTGTGTTTGAAGAAACGAATTCAGTGCCATTCTCCAGAGCTAGGGCAGTAAGATTGAACTCTTCTTCTTCCTG[AG]T
4685 IS [AG] TCAATGATGAGTTTCGGAATGACCTGATTCCTAATGCTGCAGCCAGTCTGTTCTGGTAATCATAGTCAGCATCACTCTCTTCATCTTCAGGTTCTAAAC FS
4803 I S CTGAATGAGGGCAAATGAGGCACCTGTGCCA
4803 P A S CGCGCCGAGGTGGGCGTCAGGGTGY
4803 P G S CGCGCCGAGGCGGGCGTCAGGGTY
4803 T A S AGCGCACCCTGACGCCCAGGCACAGGTGCCTCATTTGCCCTCATTCAGGA
4803 T G S AGCGCACCCTGACGCCCGGGCACAGGTGCCTCATTTGCCCTCATTCAGGA
GGCTCATCCCAGACCCACTGCCCTGTGCATCACAGCGCACCCTGACGCCC[AG]GGCACAGGTGCCTCATTTGCCCTCATTCAGGAGCAGAGAGTTGGCGC
4803 IS [AG] CCA
5000 I S CTTCTCAGGGCTTCAGTGTCTCACTCCCTACAT
5000 P C S ATGACGTGGCAGACGTGACTTCCCAGGCT
5000 P T S CGCGCCGAGGATGACTTCCCAGGCTG
5000 T C S CGCCCAGCCTGGGAAGTCACTGTAGGGAGTGAGACACTGAAGCCCTGAGAAGCC
5000 T T S CGCCCAGCCTGGGAAGTCATTGTAGGGAGTGAGACACTGAAGCCCTGAGAAGCC
ACCGGTGTGTGTGTCTTGCACTCCAGAGCTGACCTCCACCGCCCAGCCTGGGAAGTCA[CT]TGTAGGGAGTGAGACACTGAAGCCCTGAGAAGCCAGT
5000 IS [CT] GCCATCATCCCCACCCCGCCCAG
5082 I S ACGTCGCTCCTTTAGTCGTCCTCAGCTTGTT
5082 P C S ATGACGTGGCAGACGCTGCAGTCTGTCTTTC
5082 P G S CGCGCCGAGGCCTGCAGTCTGTCTTTC
5082 T C S GCCGGAAAGACAGACTGCAGCACAAGCTGAGGACGACTAAAGGAGCGACGTCC
5082 T G S GCCGGAAAGACAGACTGCAGGACAAGCTGAGGACGACTAAAGGAGCGACGTCC
GCTGACAACACCAGACTCCGTCCCAGGCCTGGGTCCCCCCGCCGGAAAGACAGACTGCAG[CG]ACAAGCTGAGGACGACTAAAGGAGCGACGTCCCGCTT
5082 IS [CG] TCATTATGTGACGAGAAGTCTGC
5119 I S GCTTAGGGCAGTCCCCTGGGAGCTT
5119 P C S ATGACGTGGCAGACGAGTAGGGGGATCCC
5119 P T S CGCGCCGAGGAAGTAGGGGGATCCC
5119 T C S GTCCGGGATCCCCCTACTCAGCTCCCAGGGGACTGCCCTAAGCTA
5119 T T S GTCCGGGATCCCCCTACTTAGCTCCCAGGGGACTGCCCTAAGCTA
GAGAGAGGAGGCTGGAGTACTCCTATCTCAGATCTGGAAGGAGTCCGGGATCCCCCTACT[CT]AGCTCCCAGGGGACTGCCCTAAGCTAGAAGAAGTGGA
5119 IS [CT] TATTGGGATCTCTGACTCAAGAG
5138 I S CGGAGGACTCCGCATCATGGACTCGCT
5138 P C S ATGACGTGGCAGACGTAAACTTTTTCTTCAGGGCY
5138 P T S CGCGCCGAGGATAAACTTTTTCTTCAGGGCTY
5138 T C S GGGAAGCCCTGAAGAAAAAGTTTACGCGAGTCCATGATGCGGAGTCCTCCGAT
5138 T T S GGGAAGCCCTGAAGAAAAAGTTTATGCGAGTCCATGATGCGGAGTCCTCCGAT
ATCTATTCTATTTCCTGATCCCCAGAACCTATGAACGGGAAGCCCTGAAGAAAAAGTTTA[CT]GCGAGTCCATGATGCGGAGTCCTCCGATGAAGACGGCTA
5138 IS [CT] TGACTGGGGTCCGGCCACTGA
5180 I A ACCTCCCACACCTGTCTGTGCACTTGTATGTTTTT
5180 P A A CGCGCCGAGGATAAACTTGGCATCTGTAAAAATAA
5180 P G A ATGACGTGGCAGACGTAAACTTGGCATCTGTAAAAA
5180 T A A CTGGTTATTTTTACAGATGCCAAGTTTATAAAACATACAAGTGCACAGACAGGTGTGGGAGGTAG
5180 T G A CTGGTTATTTTTACAGATGCCAAGTTTACAAAACATACAAGTGCACAGACAGGTGTGGGAGGTAG
GTGTTGCGAACACTCTGTTTCGAGCTACCTCCCACACCTGTCTGTGCACTTGTATGTTTT[AG]TAAACTTGGCATCTGTAAAAATAACCAGCCATTAGATGAA
5180 IS [AG] TTCAGAACCTTCTAATGAAA
5237 I A TCTACGTGTATGCGTGTGAGTGCACGTACACAA
5237 P C A ATGACGTGGCAGACCGCACATGCATGCA
5237 P T A CGCGCCGAGGTGCACATGCATGCAC
5237 T C A TTGTGTGCATGCATGTGCGTGTGTACGTGCACTCACACGCATACACGTAGAGG
5237 T T A TTGTGTGCATGCATGTGCATGTGTACGTGCACTCACACGCATACACGTAGAGG
GAAGGAGCTCAGCAAGAGGTGAGCAACCTCTACGTGTATGCGTGTGAGTGCACGTACACA[CT]GCACATGCATGCACACAAACACATACTTATATGCACATG
5237 IS [CT] TACACACAGACACACATACAC
5249 I S CGGAGATGCCGCCTGACATCGGGC
5249 P C S ATGACGTGGCAGACGGATTGAGATTTCTGATCAGT
5249 P A S CGCGCCGAGGTGATTGAGATTTCTGATCAGTC
5249 T C S CCCCGACTGATCAGAAATCTCAATCCCCCGATGTCAGGCGGCATCTCCGGC
5249 T A S CCCCGACTGATCAGAAATCTCAATCACCCGATGTCAGGCGGCATCTCCGGC
CCAGAGCCCCAAGTAACAAGAAGGCAAAAAGCAAACCCCGACTGATCAGAAATCTCAATC[CA]CCCGATGTCAGGCGGCATCTCCGGCTTCCAAATACCTGT
5249 IS [CA] CACTTCTCTAGCTTGGTGGCT
5485 I A GCAAGGACCAGCAGATGCTAGGCATGGTTTA
5485 P C A ATGACGTGGCAGACCGTGGGCTATGCAAAGY
5485 P T A CGCGCCGAGGTGTGGGCTATGCAAAGY
5485 T C A ACTGCTTTGCATAGCCCACGAAACCATGCCTAGCATCTGCTGGTCCTTGCAC
5485 T T A ACTGCTTTGCATAGCCCACAAAACCATGCCTAGCATCTGCTGGTCCTTGCAC
AGAGCAGCAGTGCCATGGGACCTTATAAGTGCAAGGACCAGCAGATGCTAGGCATGGTTT[CT]GTGGGCTATGCAAAGCAGTCAGGGTCTAGATGGCTAAA
5485 IS [CT] AATCTGCTTGTTTAGGCTATTT
5638 I A CCCTTCCTCTCTTTCCCTCCTCCCCACA
5638 P T A CGCGCCGAGGTCCTTCATCACCTCCTCY
5638 P C A ATGACGTGGCAGACCCCTTCATCACCTCCTY
5638 T T A AGAAGAGGAGGTGATGAAGGAGTGGGGAGGAGGGAAAGAGAGGAAGGGCA
5638 T C A AGAAGAGGAGGTGATGAAGGGGTGGGGAGGAGGGAAAGAGAGGAAGGGCA
CATTTTTCTGTGCCCTTCCTCTCTTTCCCTGTGCCCTTCCTCTCTTTCCCTCCTCCCCAC[TC]CCTTCATCACCTCCTCTTCTCCTACTATCCCAATTGTGCTT
5638 IS [TC] CTTCCTCCAGAAAGAGGAG
5691 I A CCACATTCTTAGGTTTGCTGACATCATCTCTTTGAATTAATGGCAT
5691 P C A ATGACGTGGCAGACCAATTGTTTGTGGTTCATTGTY
5691 P A A CGCGCCGAGGAAATTGTTTGTGGTTCATTGTY
5691 T C A GGAGACAATGAACCACAAACAATTGTGCCATTAATTCAAAGAGATGATGTCAGCAAACCTAAGAATGTGGGA
5691 T A A GGAGACAATGAACCACAAACAATTTTGCCATTAATTCAAAGAGATGATGTCAGCAAACCTAAGAATGTGGGA
TCAGTAGTATGTATCCCACATTCTTAGGTTTGCTGACATCATCTCTTTGAATTAATGGCA[CA]AATTGTTTGTGGTTCATTGTCTCCTTAAATTAGACTGTAAG
5691 IS [CA] CACCTTGATGGAACTCATA
5705 I A ACAACTTCTTCAAGCTGCAGAAAAAATATGGCCCCATCTATTCC
5705 P G A ATGACGTGGCAGACGGTTCGTATGGGCACY
5705 P T A CGCGCCGAGGTGTTCGTATGGGCACCY
5705 T G A TCTTGGTGCCCATACGAACCGAATAGATGGGGCCATATTTTTTCTGCAGCTTGAAGAAGTTGTTA
5705 T T A TCTTGGTGCCCATACGAACAGAATAGATGGGGCCATATTTTTTCTGCAGCTTGAAGAAGTTGTTA
ACACGGCCATATGCATAACAACTTCTTCAAGCTGCAGAAAAAATATGGCCCCATCTATTC[GT]GTTCGTATGGGCACCAAGACTACAGTGATTGTCGGCCAC
5705 IS [GT] CACCAGCTGGCCAAGGAGGTG
5714 I S GAGACACCCCAGAAACAGCCTCCCACAT
5714 P G S ATGACGTGGCAGACCCCCCAGTACTTTCCCY
5714 P T S CGCGCCGAGGACCCCAGTACTTTCCCY
5714 T G S GGCTGGGAAAGTACTGGGGGTGTGGGAGGCTGTTTCTGGGGTGTCTCAG
5714 T T S GGCTGGGAAAGTACTGGGGTTGTGGGAGGCTGTTTCTGGGGTGTCTCAG
ACTCCCCTGGGAGTTCCTCAATAGGAGAGGGGCAAGTGCAGGGCTGGGAAAGTACTGGGG[GT]TGTGGGAGGCTGTTTCTGGGGTGTCTCAGAGCCTCTA
5714 IS [GT] AGACAAGCAAAAGGGTGGGCAGG
5757 I A CAGACTCCCACAGGCATGCGGGGT

FIGURE 129E

5757 P	G	A	ATGACGTGGCAGACGGTGGGCTGAGACCY
5757 P	C	A	CGCGCCGAGGCGTGGGCTGAGACCY
5757 T	G	A	GCCAGGTCTCAGCCCACCCCCCGCATGCCTGTGGGAGTCTGGT
5757 T	C	A	GCCAGGTCTCAGCCCACGCCCCGCATGCCTGTGGGAGTCTGGT
5757 IS	[GC]		CCCAGGCCGAGGGAGGGCTTCCCAGCGGGTGGGAAACCAGACTCCCACAGGCATGCGGGG[GC]GTGGGCTGAGACCTGGCTGCATCAGCTCCTGGCAC CCCCTGCGGCCCACAGTTCTGGTCC
5796 I		S	ACCGAGCAGCATCCCAGCCCGTTATTCT
5796 P	C	S	ATGACGTGGCAGACGTGGAAGGCTACTCGTY
5796 P	T	S	CGCGCCGAGGATGGAAGGCTACTCGTTY
5796 T	C	S	ACGGAACGAGTAGCCTTCCACGAATAACGGGCTGGGATGCTGCTCGGTGC
5796 T	T	S	ACGGAACGAGTAGCCTTCCATGAATAACGGGCTGGGATGCTGCTCGGTGC
5796 IS	[CT]		GTGGGGGGTGGACAGGTGACCAGAACTAGCACCCAGCGACACGGAACGAGTAGCCTTCCA[CT]GAATAACGGGCTGGGATGCTGCTCGGTGCCCGGAGC ACAGAAAACAAAGCAGGAAACTGT
5920 I		S	CCTGAAAACGCCAACGTCTTCTATGCCATGAACTCTACA
5920 P	G	S	ATGACGTGGCAGACCGCCAACTATGACTTTGT
5920 P	A	S	CGCGCCGAGGTGCCAACTATGACTTTGTC
5920 T	G	S	TCAGGACAAAGTCATAGTTGGCGGTAGAGTTCATGGCATAGAAGACGTTGGCGTTTTCAGGGA
5920 T	A	S	TCAGGACAAAGTCATAGTTGGCAGTAGAGTTCATGGCATAGAAGACGTTGGCGTTTTCAGGGA
5920 IS	[GA]		GTGCTTGACCTTCACTCCCTTGGTGAAGGTCCGCTTCTTCAGGACAAAGTCATAGTTGGC[GA]GTAGAGTTCATGGCATAGAAGACGTTGGCGTTTTCAGG GATCTTCAGCTCTGGTGGGGAG
5958 I		S	CTCCCTCAAGGAGTTCACAGACTACATCTAAGCATCACTTTA
5958 P	A	S	CGCGCCGAGGTTCATCTATGCCCTTCCT
5958 P	G	S	ATGACGTGGCAGACCTCATCTATGCCCTTCCT
5958 T	A	S	ATTCAGGAAGGGCATAGATGAAAAAGTGATGCTTAGATGTAGTCTGTGAACTCCTTGAGGGAGTG
5958 T	G	S	ATTCAGGAAGGGCATAGATGAGAAAGTGATGCTTAGATGTAGTCTGTGAACTCCTTGAGGGAGTG
5958 IS	[AG]		TTGGGGAGAGAAAAGAAAGGGCAAGACTGGCAACACTTTATTCAGGAAGGGCATAGATGA[AG]AAAGTGATGCTTAGATGTAGTCTGTGAACTCCTTGAGG GAGTGGATTGTGTGTTACTCAT
5998 I		S	CCCCAGCGCCTATATTAAGGCACATTTGAATAAATTCTATTACCAGTTA
5998 P	G	S	ATGACGTGGCAGACCCCTCTGTCTGCCTG
5998 P	A	S	CGCGCCGAGGTCCTCTGTCTGCCTG
5998 T	G	S	ATCACAGGCAGACAGAGGAACTGGTAATAGAATTTATTCAAATGTGCCTTAATATAGGCGCTGGGGCT
5998 T	A	S	ATCACAGGCAGACAGAGGAAACTGGTAATAGAATTTATTCAAATGTGCCTTAATATAGGCGCTGGGGCT
5998 IS	[GA]		AAGGCCCTCACTTGTCAGCTGACAAACCACCCCCCACCCTCAATCACAGGCAGACAGAGG[GA]AACTGGTAATAGAATTTATTCAAATGTGCCTTAATATAG GCGCTGGGGCTTGCCCATGGT
6325 I		S	CCCCCCAGCCACAGTCTCCTGTGTT
6325 P	T	S	CGCGCCGAGGATATCTGGACACCTGGGY
6325 P	C	S	ATGACGTGGCAGACGTATCTGGACACCTGGGY
6325 T	T	S	CCACCCCAGGTGTCCAGATATACACAGGAGACTGTGGCTGGGGGGCG
6325 T	C	S	CCACCCCAGGTGTCCAGATACACACAGGAGACTGTGGCTGGGGGGCG
6325 IS	[TC]		ACTTCAGTCTCCTACTGGGCGGTGCCGGATCCTTTTGTGGCCACCCCAGGTGTCCAGATA[TC]ACACAGGAGACTGTGGCTGGGGGGCGATCCGGACAGG GAAGTGCTCACCACACTCTCGAC
6353 I		S	GCATCTTTGGGAACAGAATCTCTTAGCTTAGAGAAGTTTAC
6353 P	C	S	ATGACGTGGCAGACGGCTCAAATGTTCATGATTTTY
6353 P	A	S	CGCGCCGAGGTGCTCAAATGTTCATGATTTTTY
6353 T	C	S	CATAAAAAATCATGAACATTTGAGCCTAAACTTCTCTAAGCTAAGAGATTCTGTTCCCAAAGATGCTT
6353 T	A	S	CATAAAAAATCATGAACATTTGAGCATAAACTTCTCTAAGCTAAGAGATTCTGTTCCCAAAGATGCTT
6353 IS	[CA]		ACAAGGAGATGGGATACTAAGAAGTCAAGAAGCAACATAAAAAATCATGAACATTTGAGC[CA]TAAACTTCTCTAAGCTAAGAGATTCTGTTCCCAAAGATGC TTTTTATCATGGTACTTAGG
6400 I		S	GCTCCAGGGACCTAAGTACTCCCGGAGACA
6400 P	G	S	ATGACGTGGCAGACCCCAAATTGCCAAAATGCY
6400 P	A	S	CGCGCCGAGGTCCAAATTGCCAAAATGCY
6400 T	G	S	GCTTGCATTTTGGCAATTTGGGGTCTCCGGGAGTACTTAGGTCCCTGGAGCTT
6400 T	A	S	GCTTGCATTTTGGCAATTTGGAGTCTCCGGGAGTACTTAGGTCCCTGGAGCTT
6400 IS	[GA]		GGCTGGGCCTAAATTCCTAAGTCCTCCAGGATGAAGGGAGCTTGCATTTTGGCAATTTGG[GA]GTCTCCGGGAGTACTTAGGTCCCTGGAGCTTGGCTCCT GGTGGGTGTATCTTTAGGGATG
6444 I		S	GGGGAAGACGCATGGGCAGAGAGGATACT
6444 P	C	S	ATGACGTGGCAGACGTTCGGTCTGCCCCY
6444 P	T	S	CGCGCCGAGGATTCGGTCTGCCCCY
6444 T	C	S	TGAGGGGGCAGACCGAACGTATCCTCTCTGCCCATGCGTCTTCCCCCA
6444 T	T	S	TGAGGGGGCAGACCGAATGTATCCTCTCTGCCCATGCGTCTTCCCCCA
6444 IS	[CT]		CCCAGCAGAAATTGGAGCAGAGAGGACATGGAGGGCTGAGGGGTGAGGGGGCAGACCGAA[CT]GTATCCTCTCTGCCCATGCGTCTTCCCCCAGGATGCT ACCTGAGGTCTCGGGAGAGGGGC
6447 I		A	AGACCAGCCTGGCCAATATGGCAAACTCCC
6447 P	T	A	CGCGCCGAGGTGCCTCTATTAAAAATATAAAGTTAGCY
6447 P	A	A	ATGACGTGGCAGACAGCCTCTATTAAAAATATAAAGTTAGCY
6447 T	T	A	CCCGGCTAACTTTATATTTTTAATAGAGGCAGGAGTTTGCCATATTGGCCAGGCTGGTCTCG
6447 T	A	A	CCCGGCTAACTTTATATTTTTAATAGAGGCTGGAGTTTGCCATATTGGCCAGGCTGGTCTCG
6447 IS	[TA]		GGCGGGCAGATCAACTGAGGTAGAGAGTTCGAGACCAGCCTGGCCAATATGGCAAACTCC[TA]GCCTCTATTAAAAATATAAAGTTAGCCGGGTGTGTGGT CGGCATCTGTAATCCCAGCTAA
6487 I		S	TGAGGCTGGCGGTTGAATGGTCAGGAGC
6487 P	T	S	CGCGCCGAGGAGTAGTAGCGGCTCTAAGY
6487 P	A	S	ATGACGTGGCAGACTGTAGTAGCGGCTCTAAGY
6487 T	T	S	CTGGCTTAGAGCCGCTACTACTCTCCTGACCATTCAACCGCCAGCCTCACA
6487 T	A	S	CTGGCTTAGAGCCGCTACTACACTCCTGACCATTCAACCGCCAGCCTCACA
6487 IS	[TA]		GGAGGGGGATGGAGCGAGAAATGAGAAAGGGCTGTGAGGCTGGCTTAGAGCCGCTACTAC[TA]CTCCTGACCATTCAACCGCCAGCCTCACACAGTGCCA GGCGCTTCCTGTAAAATGTGTAT
6515 I		S	CTCAGTGGATTTTATTTTTTTGCTGGGCTGTCCTCTAAAGAAGTT
6515 P	C	S	ATGACGTGGCAGACGGGATTGGAAGCTTCTTG
6515 P	T	S	CGCGCCGAGGAGGATTGGAAGCTTCTTG
6515 T	C	S	GCTGCAAGAAGCTTCCAATCCCACTTCTTTAGAGGACAGCCCAGCAAAAAAATAAAATCCACTGAGCT
6515 T	T	S	GCTGCAAGAAGCTTCCAATCCTACTTCTTTAGAGGACAGCCCAGCAAAAAAATAAAATCCACTGAGCT
6515 IS	[CT]		ACAGTCTTATCATGTTGGCCACATTGGGAAGGTTTCCAGGCTGCAAGAAGCTTCCAATCC[CT]ACTTCTTTAGAGGACAGCCCAGCAAAAAAATAAAATCCAC TGAGCTTCTCCTTCCAGGAA
6661 I		A	CAAGCCGTCATATCCTCCTAGACAGTGGAA
6661 P	T	A	CGCGCCGAGGTCACTCCACTGGCCY
6661 P	C	A	ATGACGTGGCAGACCCACTCCACTGGCCY
6661 T	T	A	TAGTGGCCAGTGGAGTGATCCACTGTCTAGGAGGATATGACGGCTTGAA
6661 T	C	A	TAGTGGCCAGTGGAGTGGTCCACTGTCTAGGAGGATATGACGGCTTGAA
6661 IS	[TC]		GGTCATATTTCTCAACTGAATTTAAGATATTCAAGCCGTCATATCCTCCTAGACAGTGGA[TC]CACTCCACTGGCCACTACGAGTCCGGCACCTTCCCGGGC TGTCTGCATATCTCCCAGCAT
6742 I		A	GCCCCAGGCCTCCAGAGTGTTCAGCC
6742 P	A	A	CGCGCCGAGGATCTGCACCTGTAGCAY
6742 P	T	A	ATGACGTGGCAGACTTCTGCACCTGTAGCAY
6742 T	A	A	CTGCTGCTACAGGTGCAGATGCTGAACACTCTGGAGGCCTGGGGCTG
6742 T	T	A	CTGCTGCTACAGGTGCAGAAGCTGAACACTCTGGAGGCCTGGGGCTG
6742 IS	[AT]		TTCCCTACTGGATAAGAAGAAATCTGTGGTGTCCAGCCCCAGGCCTCCAGAGTGTTCAGC[AT]TCTGCACCTGTAGCAGCAGCAGTGCCCACCAGGGAGTC CATAAAAGGTCTTGGGCCAAGC
6753 I		A	CACTCACCCAGGCCTTCACACTCCCTT
6753 P	G	A	ATGACGTGGCAGACGAACCCTGCAGACCCY

C3IP1

FIGURE 129E

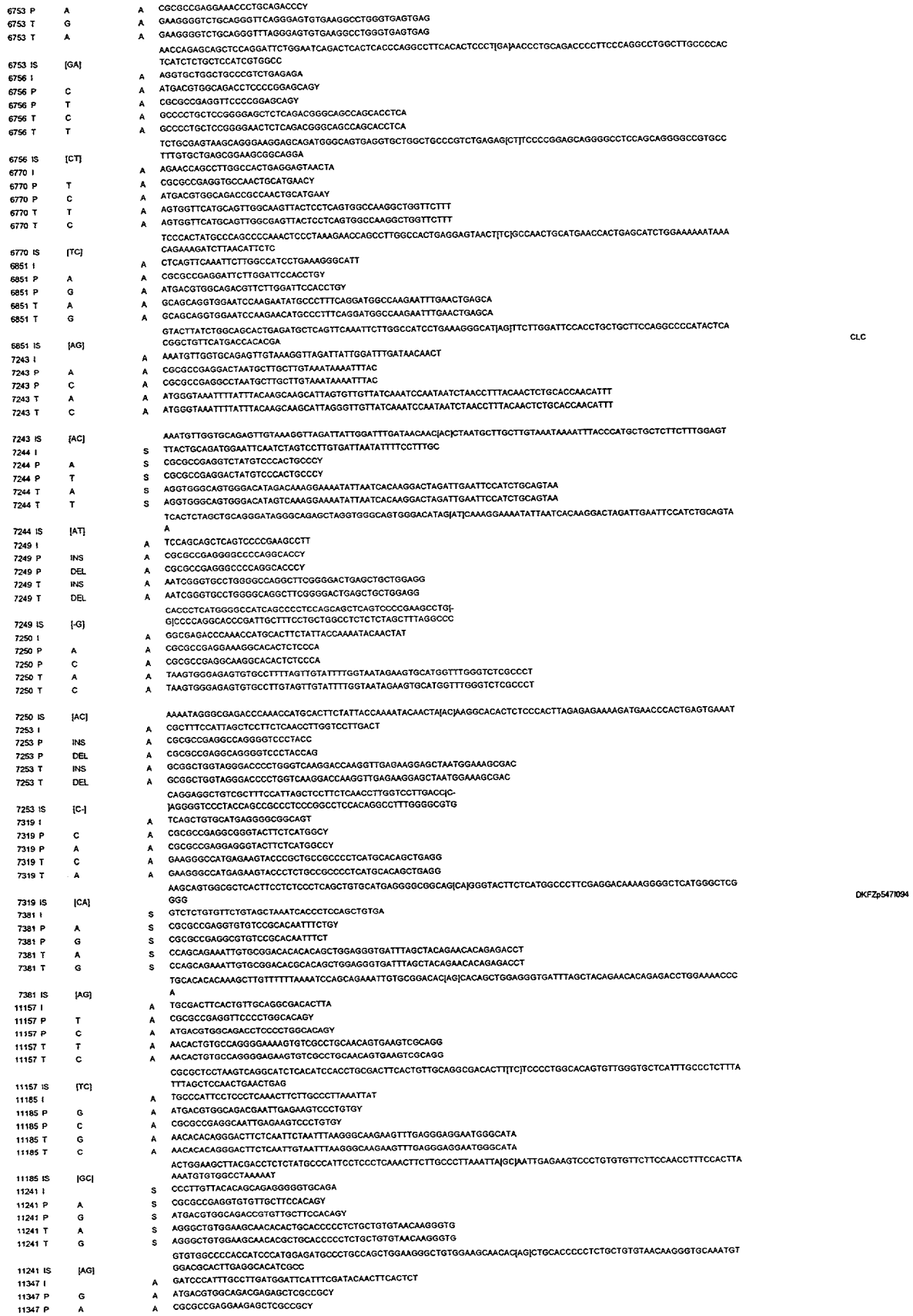

6753 P A A CGCGCCGAGGAAACCCTGCAGACCCY
6753 T G A GAAGGGGTCTGCAGGGTTCAGGGAGTGTGAAGGCCTGGGTGAGTGAG
6753 T A A GAAGGGGTCTGCAGGGTTTAGGGAGTGTGAAGGCCTGGGTGAGTGAG
AACCAGAGCAGCTCCAGGATTCTGGAATCAGACTCAGTCACCCAGGCCTTCACACTCCCT[GA]AACCCTGCAGACCCCTTCCCAGGCCTGGCTTGCCCCAC
6753 IS [GA] TCATCTCTGCTCCATCGTGGCC
6756 I A AGGTGCTGGCTGCCCGTCTGAGAGA
6756 P C A ATGACGTGGCAGACCTCCCCGGAGCAGY
6756 P T A CGCGCCGAGGTTCCCCGGAGCAGY
6756 T C A GCCCCTGCTCCGGGGAGCTCTCAGACGGGCAGCCAGCACCTCA
6756 T T A GCCCCTGCTCCGGGGAACTCTCAGACGGGCAGCCAGCACCTCA
TCTGCGAGTAAGCAGGGAAGGAGCAGATGGGCAGTGAGGTGCTGGCTGCCCGTCTGAGAG[CT]TCCCCGGAGCAGGGGCCTCCAGCAGGGGCCGTGCC
6756 IS [CT] TTTGTGCTGAGCGGAAGCGGCAGGA
6770 I A AGAACCAGCCTTGGCCACTGAGGAGTAACTA
6770 P T A CGCGCCGAGGTGCCAACTGCATGAACY
6770 P C A ATGACGTGGCAGACCGCCAACTGCATGAAY
6770 T T A AGTGGTTCATGCAGTTGGCAAGTTACTCCTCAGTGGCCAAGGCTGGTTCTTT
6770 T C A AGTGGTTCATGCAGTTGGCGAGTTACTCCTCAGTGGCCAAGGCTGGTTCTTT
TCCCACTATGCCCAGCCCCAAACTCCCTAAAGAACCAGCCTTGGCCACTGAGGAGTAACT[TC]GCCAACTGCATGAACCACTGAGCATCTGGAAAAAATAAA
6770 IS [TC] CAGAAAGATCTTAACATTCTC
6851 I A CTCAGTTCAAATTCTTGGCCATCCTGAAAGGGCATT
6851 P A A CGCGCCGAGGATTCTTGGATTCCACCTGY
6851 P G A ATGACGTGGCAGACGTTCTTGGATTCCACCTGY
6851 T A A GCAGCAGGTGGAATCCAAGAATATGCCCTTTCAGGATGGCCAAGAATTTGAACTGAGCA
6851 T G A GCAGCAGGTGGAATCCAAGAACATGCCCTTTCAGGATGGCCAAGAATTTGAACTGAGCA
GTACTTATCTGGCAGCACTGAGATGCTCAGTTCAAATTCTTGGCCATCCTGAAAGGGCAT[AG]TTCTTGGATTCCACCTGCTGCTTCCAGGCCCCATACTCA
6851 IS [AG] CGGCTGTTCATGACCACACGA
7243 I A AAATGTTGGTGCAGAGTTGTAAAGGTTAGATTATTGGATTTGATAACAACT
7243 P A A CGCGCCGAGGACTAATGCTTGCTTGTAAATAAAATTTAC
7243 P C A CGCGCCGAGGCCTAATGCTTGCTTGTAAATAAAATTTAC
7243 T A A ATGGGTAAATTTTATTTACAAGCAAGCATTAGTGTTGTTATCAAATCCAATAATCTAACCTTTACAACTCTGCACCAACATTT
7243 T C A ATGGGTAAATTTTATTTACAAGCAAGCATTAGGGTTGTTATCAAATCCAATAATCTAACCTTTACAACTCTGCACCAACATTT
AAATGTTGGTGCAGAGTTGTAAAGGTTAGATTATTGGATTTGATAACAAC[AC]CTAATGCTTGCTTGTAAATAAAATTTACCCATGCTGCTCTTCTTTGGAGT
7243 IS [AC]
7244 I S TTACTGCAGATGGAATTCAATCTAGTCCTTGTGATTAATATTTTCCTTTGC
7244 P A S CGCGCCGAGGTCTATGTCCCACTGCCCY
7244 P T S CGCGCCGAGGACTATGTCCCACTGCCCY
7244 T A S AGGTGGGCAGTGGGACATAGACAAAGGAAAATATTAATCACAAGGACTAGATTGAATTCCATCTGCAGTAA
7244 T T S AGGTGGGCAGTGGGACATAGTCAAAGGAAAATATTAATCACAAGGACTAGATTGAATTCCATCTGCAGTAA
TCACTCTAGCTGCAGGGATAGGGCAGAGCTAGGTGGGCAGTGGGACATAG[AT]CAAAGGAAAATATTAATCACAAGGACTAGATTGAATTCCATCTGCAGTA
7244 IS [AT] A
7249 I A TCCAGCAGCTCAGTCCCCGAAGCCTT
7249 P INS A CGCGCCGAGGGGCCCCAGGCACCY
7249 P DEL A CGCGCCGAGGGCCCCAGGCACCCY
7249 T INS A AATCGGGTGCCTGGGGCCAGGCTTCGGGGACTGAGCTGCTGGAGG
7249 T DEL A AATCGGGTGCCTGGGGCAGGCTTCGGGGACTGAGCTGCTGGAGG
CACCCTCATGGGGCCATCAGCCCCTCCAGCAGCTCAGTCCCCGAAGCCTG[-
7249 IS [-G] G]CCCCAGGCACCCGATTGCTTTCCTGCTGGCCTCTCTCTAGCTTTAGGCCC
7250 I A GGCGAGACCCAAACCATGCACTTCTATTACCAAAATACAACTAT
7250 P A A CGCGCCGAGGAAAGGCACACTCTCCCA
7250 P C A CGCGCCGAGGCAAGGCACACTCTCCCA
7250 T A A TAAGTGGGAGAGTGTGCCTTTTAGTTGTATTTTGGTAATAGAAGTGCATGGTTTGGGTCTCGCCCT
7250 T C A TAAGTGGGAGAGTGTGCCTTGTAGTTGTATTTTGGTAATAGAAGTGCATGGTTTGGGTCTCGCCCT
AAAATAGGGCGAGACCCAAACCATGCACTTCTATTACCAAAATACAACTA[AC]AAGGCACACTCTCCCACTTAGAGAGAAAAGATGAACCCACTGAGTGAAAT
7250 IS [AC]
7253 I A CGCTTTCCATTAGCTCCTTCTCAACCTTGGTCCTTGACT
7253 P INS A CGCGCCGAGGCCAGGGGTCCCTACC
7253 P DEL A CGCGCCGAGGCAGGGGTCCCTACCAG
7253 T INS A GCGGCTGGTAGGGACCCCTGGGTCAAGGACCAAGGTTGAGAAGGAGCTAATGGAAAGCGAC
7253 T DEL A GCGGCTGGTAGGGACCCCTGGTCAAGGACCAAGGTTGAGAAGGAGCTAATGGAAAGCGAC
CAGGAGGCTGTCGCTTTCCATTAGCTCCTTCTCAACCTTGGTCCTTGACC[C-
7253 IS [C-]]AGGGGTCCCTACCAGCCGCCCTCCCGGCCTCCACAGGCCTTTGGGGCGTG
7319 I A TCAGCTGTGCATGAGGGGCGGCAGT
7319 P C A CGCGCCGAGGCGGGTACTTCTCATGGCY
7319 P A A CGCGCCGAGGAGGGTACTTCTCATGGCCY
7319 T C A GAAGGGCCATGAGAAGTACCCGCTGCCGCCCCTCATGCACAGCTGAGG
7319 T A A GAAGGGCCATGAGAAGTACCCTCTGCCGCCCCTCATGCACAGCTGAGG
AAGCAGTGGCGCTCACTTCCTCTCCCTCAGCTGTGCATGAGGGGCGGCAG[CA]GGGTACTTCTCATGGCCCTTCGAGGACAAAAGGGGCTCATGGGCTCG
7319 IS [CA] GGG
7381 I S GTCTCTGTGTTCTGTAGCTAAATCACCCTCCAGCTGTGA
7381 P A S CGCGCCGAGGTGTGTCCGCACAATTTCTGY
7381 P G S CGCGCCGAGGCGTGTCCGCACAATTTCT
7381 T A S CCAGCAGAAATTGTGCGGACACACACAGCTGGAGGGTGATTTAGCTACAGAACACAGAGACCT
7381 T G S CCAGCAGAAATTGTGCGGACACGCACAGCTGGAGGGTGATTTAGCTACAGAACACAGAGACCT
TGCACACACAAAGCTTGTTTTTTAAAATCCAGCAGAAATTGTGCGGACAC[AG]CACAGCTGGAGGGTGATTTAGCTACAGAACACAGAGACCTGGAAAACCC
7381 IS [AG] A
11157 I A TGCGACTTCACTGTTGCAGGCGACACTTA
11157 P T A CGCGCCGAGGTTCCCCTGGCACAGY
11157 P C A ATGACGTGGCAGACCTCCCCTGGCACAGY
11157 T T A AACACTGTGCCAGGGGAAAAGTGTCGCCTGCAACAGTGAAGTCGCAGG
11157 T C A AACACTGTGCCAGGGGAGAAGTGTCGCCTGCAACAGTGAAGTCGCAGG
CGCGCTCCTAAGTCAGGCATCTCACATCCACCTGCGACTTCACTGTTGCAGGCGACACTT[TC]TCCCCTGGCACAGTGTTGGGTGCTCATTTGCCCTCTTTA
11157 IS [TC] TTTAGCTCCAACTGAACTGAG
11185 I A TGCCCATTCCTCCCTCAAACTTCTTGCCCCTTAAATTAT
11185 P G A ATGACGTGGCAGACGAATTGAGAAGTCCCTGTGY
11185 P C A CGCGCCGAGGCAATTGAGAAGTCCCTGTGY
11185 T G A AACACACAGGGACTTCTCAATTCTAATTTAAGGGCAAGAAGTTTGAGGGAGGAATGGGCATA
11185 T C A AACACACAGGGACTTCTCAATTGTAATTTAAGGGCAAGAAGTTTGAGGGAGGAATGGGCATA
ACTGGAAGCTTACGACCTCTCTATGCCCATTCCTCCCTCAAACTTCTTGCCCTTAAATTA[GC]AATTGAGAAGTCCCTGTGTGTTCTTCCAACCTTTCCACTTA
11185 IS [GC] AAATGTGTGGCCTAAAAAT
11241 I S CCCTTGTTACACAGCAGAGGGGGTGCAGA
11241 P A S CGCGCCGAGGTGTGTTGCTTCCACAGY
11241 P G S ATGACGTGGCAGACCGTGTTGCTTCCACAGY
11241 T A S AGGGCTGTGGAAGCAACACACTGCACCCCCTCTGCTGTGTAACAAGGGTG
11241 T G S AGGGCTGTGGAAGCAACACGCTGCACCCCCTCTGCTGTGTAACAAGGGTG
GTGTGGCCCCACCATCCCATGGAGATGCCCTGCCAGCTGGAAGGGCTGTGGAAGCAACAC[AG]CTGCACCCCCTCTGCTGTGTAACAAGGGTGCAAATGT
11241 IS [AG] GGACGCACTTGAGGCACATCGCC
11347 I A GATCCCATTTGCCTTGATGGATTCATTTCGATACAACTTCACTCT
11347 P G A ATGACGTGGCAGACGAGAGCTCGCCGCY
11347 P A A CGCGCCGAGGAAGAGCTCGCCGCY
CLC
DKFZp5471094

FIGURE 129E

11347	T	G	A	GGAAGCGGCGAGCTCTCGAGTGAAGTTGTATCGAAATGAATCCATCAAGGCAAATGGGATCTT
11347	T	A	A	GGAAGCGGCGAGCTCTTGAGTGAAGTTGTATCGAAATGAATCCATCAAGGCAAATGGGATCTT
11347	IS	[GA]		ACAGAAGAAAAATCAAGATCCCATTTGCCTTGATGGATTCATTTCGATACAACTTCACTC[GA]AGAGCTCGCCGCTTCCTGATTTCACATTTCACCATCAAAG ACGAGGGCCGGGGCAGAGCT
11395	I		A	CTGGATTCATATTGTTATTCTAACAGACTCCCTGTAATAAACCTGT
11395	P	G	A	ATGACGTGGCAGACGGTTACTTCTATCGTGTGCCY
11395	P	C	A	CGCGCCGAGGCTTACTTCTATCGTGTGCCY
11395	T	G	A	CACAGGCACACGATAGAAGTAACCAGGTTTATTACAGGGAGTCTGTTAGAATAACAATATGAATCCAGCT
11395	T	C	A	CACAGGCACACGATAGAAGTAAGCAGGTTTATTACAGGGAGTCTGTTAGAATAACAATATGAATCCAGCT
11395	IS	[GC]		ACCGCATACATCTAGCTGGATTCATATTGTTATTCTAACAGACTCCCTGTAATAAACCTG[GC]TTACTTCTATCGTGTGCCTGTGTGGTTTAAGCTTATCCAAA TGGTGACTCTTTTCAAGGT
11416	I		S	GGCTCGCTGCAACCTCCACCTCCT
11416	P	G	S	ATGACGTGGCAGACCGGGTTCAAGTGATCCY
11416	P	T	S	CGCGCCGAGGAGGGTTCAAGTGATCCTY
11416	T	G	S	CAGGAGGATCACTTGAACCCGGGAGGTGGAGGTTGCAGCGAGCCAA
11416	T	T	S	CAGGAGGATCACTTGAACCCTGGAGGTGGAGGTTGCAGCGAGCCAA
11416	IS	[GT]		TGGTGCACGCCTGTAATCCCAGCTACTCGAGACCCTGAGGCAGGAGGATCACTTGAACCC[GT]GGAGGTGGAGGTTGCAGCGAGCCAAGATCACGCCATT GCACTCCAGCCTGGGCAACAAGA
11438	I		S	GAGCTGGAGTTCTGGCTGCAGTTTAGCATGTA
11438	P	A	S	CGCGCCGAGGTTCCAGGCTGATTTCCTY
11438	P	G	S	ATGACGTGGCAGACCTCCAGGCTGATTTCCTY
11438	T	A	S	AGGAAGGAAATCAGCCTGGAAACATGCTAAACTGCAGCCAGAACTCCAGCTCAT
11438	T	G	S	AGGAAGGAAATCAGCCTGGAGACATGCTAAACTGCAGCCAGAACTCCAGCTCAT
11438	IS	[AG]		ATCCTCTTCCCTGTCCTCAGCGAGGACTGCACTACCACAGAGGAAGGAAATCAGCCTGGA[AG]ACATGCTAAACTGCAGCCAGAACTCCAGCTCATCCTCA GTGTGGTGGCTGAAATCACCTG
11473	I		A	TGACCCTAGCTCCCACCGCCACCT
11473	P	A	A	CGCGCCGAGGACCGCGGTCGCY
11473	P	G	A	ATGACGTGGCAGACGCCGCGGTCGCY
11473	T	A	A	GACCGCGACCGCGGTGGTGGCGGTGGGAGCTAGGGTCACC
11473	T	G	A	GACCGCGACCGCGGCGGTGGCGGTGGGAGCTAGGGTCACC
11473	IS	[AG]		AGGCGGTGCGGCACAGAGGAGCGCTCGCTTCACAAGGTGACCCTAGCTCCCACCGCCACC[AG]CCGCGGTCGCGGTCCAGACCGCGCTCCAGCAGCTCC GCGCCCTCCCAGGCACCCGGCCTT
11487	I		A	TTTATATACTCAGATTTTTGTTTGAAATTTGGAAATTATTCAAAGGAAATACTTTTGATAA
11487	P	C	A	ATGACGTGGCAGACCGAGGATAACAGGTATGCY
11487	P	T	A	CGCGCCGAGGTGAGGATAACAGGTATGCTY
11487	T	C	A	AAGCAGCATACCTGTTATCCTCGTATCAAAAGTATTTCCTTTGAATAATTTCCAAATTTCAAACAAAAATCTGAGTATATAAA
11487	T	T	A	AAGCAGCATACCTGTTATCCTCATATCAAAAGTATTTCCTTTGAATAATTTCCAAATTTCAAACAAAAATCTGAGTATATAAA
11487	IS	[CT]		TTTATATACTCAGATTTTTGTTTGAAATTTGGAAATTATTCAAAGGAAATACTTTTGATA[CT]GAGGATAACAGGTATGCTGCTTTTTAAACTCATTGATAAACA TAGCCAATGTGTTGTCAC
11509	I		S	GCAGATCCTCCTCTATACTGTGAGCAGTTCTTAGATGGTAAATGAAAAAT
11509	P	T	S	CGCGCCGAGGAAGAAAGAAAGATGGTGTGTY
11509	P	C	S	ATGACGTGGCAGACGAGAAAGAAAGATGGTGTGTY
11509	T	T	S	CCACACACACCATCTTTCTTTCTTTTTTTCATTTACCATCTAAGAACTGCTCACAGTATAGAGGAGGATCTGCTC
11509	T	C	S	CCACACACACCATCTTTCTTTCTCTTTTTCATTTACCATCTAAGAACTGCTCACAGTATAGAGGAGGATCTGCTC
11509	IS	[TC]		TATGTTTTCTTCACCCCACATGCATAATGTTCCCCCACCACACACACCATCTTTCTTTCT[TC]TTTTTCATTTACCATCTAAGAACTGCTCACAGTATAGAGGA GGATCTGCTCTGCTAACTT
11529	I		A	GTTGCCATCCTCATTCTGCCATTTCTTGTAGTACTTGGTAAAGT
11529	P	G	A	ATGACGTGGCAGACGCCATCTTTATAGATTATGCCY
11529	P	A	A	CGCGCCGAGGACCATCTTTATAGATTATGCCGY
11529	T	G	A	GAACCGGCATAATCTATAAAGATGGCCTTTACCAAGTACTACAAGAAATGGCAGAATGAGGATGGCAACAA
11529	T	A	A	GAACCGGCATAATCTATAAAGATGGTCTTTACCAAGTACTACAAGAAATGGCAGAATGAGGATGGCAACAA
11529	IS	[GA]		TCCTTCTCCAGCTGCTTGTTGCCATCCTCATTCTGCCATTTCTTGTAGTACTTGGTAAAG[GA]CCATCTTTATAGATTATGCCGGTTCTTATGGAAACACCTTT GCATTCATTGCTTTGCGTG
11621	I		S	TGATCCACCCACCTTGGCCTCCCAAAT
11621	P	C	S	ATGACGTGGCAGACGTGCTGGGATTATAGGTGY
11621	P	T	S	CGCGCCGAGGATGCTGGGATTATAGGTGTY
11621	T	C	S	GCTCACACCTATAATCCCAGCACTTTGGGAGGCCAAGGTGGGTGGATCACT
11621	T	T	S	GCTCACACCTATAATCCCAGCATTTTGGGAGGCCAAGGTGGGTGGATCACT
11621	IS	[CT]		CAACCACCCCAAAAAGCAGGTGTTGGCCGGGCACAGTGGCTCACACCTATAATCCCAGCA[CT]TTTGGGAGGCCAAGGTGGGTGGATCACTTGAGGTCAG GAGTTCGAGAGCAGCCTGACCAA
11645	I		A	CCCCCGTGTCTGTGCCTCCCCA
11645	P	C	A	ATGACGTGGCAGACCGTCTGACTCTTCCTCGY
11645	P	T	A	CGCGCCGAGGTGTCTGACTCTTCCTCGY
11645	T	C	A	GTCACGAGGAAGAGTCAGACGGGGGAGGCACAGACACGGGGGAG
11645	T	T	A	GTCACGAGGAAGAGTCAGACAGGGGAGGCACAGACACGGGGGAG
11645	IS	[CT]		CTGGTCCGGCCTTGGGCTCACATTGGCTTCTCTCCCCCTCCCCCGTGTCTGTGCCTCCCC[CT]GTCTGACTCTTCCTCGTGACTGCTGTCTTGCCCACCCT GTCGGCCTCTCCTGGTGTCTCT
11686	I		A	GGGGAGGATCATGTGATGGTATTAAGCGGCAA
11686	P	C	A	ATGACGTGGCAGACCTGCCTGATCTGGTCTY
11686	P	T	A	CGCGCCGAGGTTGCCTGATCTGGTCTY
11686	T	C	A	TGAGAGACCAGATCAGGCAGTGCCGCTTAATACCATCACATGATCCTCCCCGA
11686	T	T	A	TGAGAGACCAGATCAGGCAATGCCGCTTAATACCATCACATGATCCTCCCCGA
11686	IS	[CT]		CTCTCTATTTTAATTAAATACAGGGCCTCGGGGAGGATCATGTGATGGTATTAAGCGGCA[CT]TGCCTGATCTGGTCTCTCAAGTTCAACCTCTTACAACTCA TGTGCTTATGACTCACTCCT
11736	I		S	ACCCACTGAACGAGAGCGGGACCCA
11736	P	A	S	CGCGCCGAGGTGGGGGAGGCCCY
11736	P	G	S	ATGACGTGGCAGACCGGGGGAGGCCY
11736	T	A	S	TGCAGGGCCTCCCCCAGGGTCCCGCTCTCGTTCAGTGGGTGG
11736	T	G	S	TGCAGGGCCTCCCCCGGGGTCCCGCTCTCGTTCAGTGGGTGG
11736	IS	[AG]		AGAATCCCAGAGCCTGGGCGGAGATTGTCTAATGGTTGCCAGAGCTGCAGGGCCTCCCCC[AG]GGGTCCCGCTCTCGTTCAGTGGGTGGCATTAGCCTGC CCCAGGTTCCTCAGCTTCGGAGA
11777	I		A	CTTCACATCATATGTCATAATCTTTAAACAGCAAAATGAATAATGTAAAAACCTAGAT
11777	P	A	A	CGCGCCGAGGAAACTTTTTTTCCTAGACTACTATGY
11777	P	G	A	ATGACGTGGCAGACGAACTTTTTTTCCTAGACTACTATGY
11777	T	A	A	ATAACATAGTAGTCTAGGAAAAAAAGTTTTCTAGGTTTTTACATTATTCATTTTGCTGTTTAAAGATTATGACATATGATGTGAAGAA
11777	T	G	A	ATAACATAGTAGTCTAGGAAAAAAAGTTTCTAGGTTTTTACATTATTCATTTTGCTGTTTAAAGATTATGACATATGATGTGAAGAA
11777	IS	[AG]		TTTCTTCACATCATATGTCATAATCTTTAAACAGCAAAATGAATAATGTAAAAACCTAGA[AG]AACTTTTTTTCCTAGACTACTATGTTATTGACAACTATTACTT TCCATAGTTGAGTAGCC
11850	I		A	TGTGCTGGGGGTTCCGTTGACTTTCCAT
11850	P	A	A	CGCGCCGAGGATGCAAGCCAATTTGATGY
11850	P	G	A	ATGACGTGGCAGACGTGCAAGCCAATTTGATGY
11850	T	A	A	CTTCCATCAAATTGGCTTGCATTGGAAAGTCAACGGAACCCCCAGCACAAA
11850	T	G	A	CTTCCATCAAATTGGCTTGCACTGGAAAGTCAACGGAACCCCCAGCACAAA
11850	IS	[AG]		GGCTCCAGTCCTTTGGCCATCAGCCACCGTCTTTGTGCTGGGGGTTCCGTTGACTTTCCA[AG]TGCAAGCCAATTTGATGGAAGCTGGGGCTTAAAAGGAA ATGTGCGCTTGTAGGAGCTGGT
11856	I		A	TGGGATTACAGGTGTGAGCCACCGTGCA
11856	P	T	A	CGCGCCGAGGTCAGCCTGATTTATTTTATAAGAGY

FIGURE 129E

11856 P	C	A	ATGACGTGGCAGACCCAGCCTGATTTATTTTATAAGAGY
11856 T	T	A	TGGGCTCTTATAAAATAAATCAGGCTGAGCACGGTGGCTCACACCTGTAATCCCAGC
11856 T	C	A	TGGGCTCTTATAAAATAAATCAGGCTGGGCACGGTGGCTCACACCTGTAATCCCAGC
11856 IS	[TC]		TTGTGATCTGCCCGTCTTGGCCTCCCATAGTGCTGGGATTACAGGTGTGAGCCACCGTGC[TC]CAGCCTGATTTATTTTATAAGAGCCCAGCTGTGGTCAG GTCCCCAGGGGTCAGGCTGTCC
11882 I		A	GCAGCATTCAAGAAAATGCTCCTGCTTTTTTGGTGTT
11882 P	A	A	CGCGCCGAGGAGATTTAAAGAATATATAGAGAATAGCTAAGY
11882 P	G	A	ATGACGTGGCAGACGGATTTAAAGAATATATAGAGAATAGCTAAY
11882 T	A	A	TGCACTTAGCTATTCTCTATATATTCTTTAAATCTACACCAAAAAAGCAGGAGCATTTTCTTGAATGCTGCAA
11882 T	G	A	TGCACTTAGCTATTCTCTATATATTCTTTAAATCCACACCAAAAAAGCAGGAGCATTTTCTTGAATGCTGCAA
11882 IS	[AG]		ACAGGGATTGCAAGGAACTAATTTGCAGCATTCAAGAAAATGCTCCTGCTTTTTTGGTGT[AG]GATTTAAAGAATATATAGAGAATAGCTAAGTGCATACGCT GTGCCAAGTACTCGCTCTGC
11887 I		S	ACATTCCAGGAGTGATCCTAGGCTAGGCAGTTGTATTAAAGA
11887 P	A	S	CGCGCCGAGGTTCTAAATTTGGTTGCACATTY
11887 P	G	S	ATGACGTGGCAGACCTCTAAATTTGGTTGCACATTY
11887 T	A	S	TCCCAATGTGCAACCAAATTTAGAACTTTAATACAACTGCCTAGCCTAGGATCACTCCTGGAATGTCC
11887 T	G	S	TCCCAATGTGCAACCAAATTTAGAGCTTTAATACAACTGCCTAGCCTAGGATCACTCCTGGAATGTCC
11887 IS	[AG]		CCCAGACATTAGTATGTTTTTAAGCTTTCCAGGTGATCCCAATGTGCAACCAAATTTAGA[AG]CTTTAATACAACTGCCTAGCCTAGGATCACTCCTGGAATG TCCTGGGAGGGCATTCTCCA
12013 I		A	TGTGCAAGGAGCTCCAATGTCTCCCGGT
12013 P	C	A	ATGACGTGGCAGACCCAGTGATGATGTGAAAACAY
12013 P	A	A	CGCGCCGAGGACAGTGATGATGTGAAAACAY
12013 T	C	A	TAAATGTTTTCACATCATCACTGGCCGGGAGACATTGGAGCTCCTTGCACAGA
12013 T	A	A	TAAATGTTTTCACATCATCACTGTCCGGGAGACATTGGAGCTCCTTGCACAGA
12013 IS	[CA]		CACTGATGTCCCCGTGCCGGGCATGAGCCCTTCTGTGCAAGGAGCTCCAATGTCTCCCGG[CA]CAGTGATGATGTGAAAACATTTAGAACCGACCTACACA ATAAGGCAGATTTTCATTCTGT
12044 I		S	TTTCATCATTCTTCCCCCTAGAATGACTCATTACAAATTCTGA
12044 P	A	S	CGCGCCGAGGTGTCCATGTGATGCATTAATY
12044 P	G	S	ATGACGTGGCAGACCGTCCATGTGATGCATTY
12044 T	A	S	CAATATTAATGCATCACATGGACACAGAATTTGTAATGAGTCATTCTAGGGGGAAGAATGATGAAATT
12044 T	G	S	CAATATTAATGCATCACATGGACGCAGAATTTGTAATGAGTCATTCTAGGGGGAAGAATGATGAAATT
12044 IS	[AG]		TTTTGCTAATTGAATCTGAGAGCACCTGTTTCTTAATCAATATTAATGCATCACATGGAC[AG]CAGAATTTGTAATGAGTCATTCTAGGGGGAAGAATGATGAA ATTCAAAAAAAGTATTCAC
12084 I		A	CTTCCACAATTTCTTTATAGCCTTAAGTTAGCTCTGGTCAAGGCTAAAAATT
12084 P	C	A	CGCGCCGAGGCAATGAGCAAAATGGCAGY
12084 P	G	A	ATGACGTGGCAGACGAATGAGCAAAATGGCAGY
12084 T	C	A	AATACTGCCATTTTGCTCATTGATTTTTAGCCTTGACCAGAGCTAACTTAAGGCTATAAAGAAATTGTGGAAGAA
12084 T	G	A	AATACTGCCATTTTGCTCATTCATTTTTAGCCTTGACCAGAGCTAACTTAAGGCTATAAAGAAATTGTGGAAGAA
12084 IS	[CG]		ACTGAGTTTCTTCCACAATTTCTTTATAGCCTTAAGTTAGCTCTGGTCAAGGCTAAAAAT[CG]AATGAGCAAAATGGCAGTATTAACACCTTATGACATAATTA AATGTTGCTGCTAATTTTT
12252 I		S	GGTGAAGGGGGCCTGTTCTCCACCATA
12252 P	G	S	ATGACGTGGCAGACCGACTGTGGCCTGGY
12252 P	A	S	CGCGCCGAGGTGACTGTGGCCTGGY
12252 T	G	S	CGCACCAGGCCACAGTCGATGGTGGAGAACAGGCCCCCTTCACCAA
12252 T	A	S	CGCACCAGGCCACAGTCAATGGTGGAGAACAGGCCCCCTTCACCAA
12252 IS	[GA]		TCCACTGGTGATAGAGTTCCAGGGATCCTCCTTGCCCCGAAGCCGCACCAGGCCACAGTC[GA]ATGGTGGAGAACAGGCCCCCTTCACCAAATGCCGTTTA AT
12515 I		A	CAGCTCGCAATACATGTACACACGCACTGACTCA
12515 P	T	A	CGCGCCGAGGTAGAGACAGCATTCGCTY
12515 P	C	A	ATGACGTGGCAGACCAGAGACAGCATTCGCY
12515 T	T	A	CAGTAGCGAATGCTGTCTCTAGAGTCAGTGCGTGTGTACATGTATTGCGAGCTGGG
12515 T	C	A	CAGTAGCGAATGCTGTCTCTGGAGTCAGTGCGTGTGTACATGTATTGCGAGCTGGG
12515 IS	[TC]		AGTGGGCATCACTGACCCCTCCTACCCCAGCTCGCAATACATGTACACACGCACTGACTC[TC]AGAGACAGCATTCGCTACTGGACACCATGAGGCAGTAA TGAAGTTCCGGCAAGTGATTGG
12587 I		S	GTCTGAGTCTGTGGGTCCAGGTGTGTCTGTC
12587 P	T	S	CGCGCCGAGGATCCTGGGCTAGTTGTGY
12587 P	A	S	ATGACGTGGCAGACTTCCTGGGCTAGTTGTY
12587 T	T	S	GACACACAACTAGCCCAGGATACAGACACACCTGGACCCACAGACTCAGACCT
12587 T	A	S	GACACACAACTAGCCCAGGAAACAGACACACCTGGACCCACAGACTCAGACCT
12587 IS	[TA]		CGGCGGCCGGACGAGGGCGCCCCCTGGGGGAGCGGACAGGGACACACAACTAGCCCAGGA[TA]ACAGACACACCTGGACCCACAGACTCAGACCTTGGA GAACAGACACCTGGACACACACAC
12609 I		S	TGGGCACGGGGTTTACAGGTGTCGTT
12609 P	G	S	CGCGCCGAGGCTCTCCTTCAGCTGGGY
12609 P	C	S	ATGACGTGGCAGACGTCTCCTTCAGCTGGGY
12609 T	G	S	ACACCCCAGCTGAAGGAGAGACGACACCTGTAAACCCCGTGCCCAAC
12609 T	C	S	ACACCCCAGCTGAAGGAGACACGACACCTGTAAACCCCGTGCCCAAC
12609 IS	[GC]		TTTTTGTCTTAAAATCTTTACCATCTAAAAGCAAAGAATACACACCCCAGCTGAAGGAGA[GC]ACGACACCTGTAAACCCCGTGCCCAACTTGAGAACACAGG CAGTCGGAGAACAGGCAGTC
12669 I		A	CACACCTAAATTCAGACTAGCCACAGCTCAAGTGTTCAT
12669 P	A	A	CGCGCCGAGGATAGTCACATAAGGCTAGTGY
12669 P	G	A	ATGACGTGGCAGACGTAGTCACATAAGGCTAGTGY
12669 T	A	A	TAGCCACTAGCCTTATGTGACTATTGAACACTTGAGCTGTGGCTAGTCTGAATTTAGGTGTGTC
12669 T	G	A	TAGCCACTAGCCTTATGTGACTACTGAACACTTGAGCTGTGGCTAGTCTGAATTTAGGTGTGTC
12669 IS	[AG]		GGCAAAGATTTTACTCACATGACACACCTAAATTCAGACTAGCCACAGCTCAAGTGTTCA[AG]TAGTCACATAAGGCTAGTGGCTATTGTGTTGGTGGTAATG CTCTAGAGAGAAATAGGTTA
12757 I		S	GCTTTGGCAAGATTTTAATAAGCACCATCCATAAGAGAGT
12757 P	G	S	CGCGCCGAGGCGTTCCACAGTGAAATATATTTAGY
12757 P	C	S	ATGACGTGGCAGACGGTTCCACAGTGAAATATATTTAGY
12757 T	G	S	TTTCCTAAATATATTTCACTGTGGAACGCTCTCTTATGGATGGTGCTTATTAAAATCTTGCCAAAGCAC
12757 T	C	S	TTTCCTAAATATATTTCACTGTGGAACCCTCTCTTATGGATGGTGCTTATTAAAATCTTGCCAAAGCAC
12757 IS	[GC]		GAGTCTACAGGAAGGAGGGTAGAGTAGAGAGCATTTCCTAAATATATTTCACTGTGGAAC[GC]CTCTCTTATGGATGGTGCTTATTAAAATCTTGCCAAAGCA CAAAAATCATCTGGAAAATT
12820 I		A	CGTACTGTAAACCATAGACACCTTTACTATTTTCAGAGTGGTAA
12820 P	C	A	ATGACGTGGCAGACCTGAATCCTCTGCAAGCY
12820 P	T	A	CGCGCCGAGGTTGAATCCTCTGCAAGCY
12820 T	C	A	CACAGCTTGCAGAGGATTCAGTACCACTCTGAAAATAGTAAAGGTGTCTATGGTTTACAGTACGAT
12820 T	T	A	CACAGCTTGCAGAGGATTCAATACCACTCTGAAAATAGTAAAGGTGTCTATGGTTTACAGTACGAT
12820 IS	[CT]		GATAATTTTTTCATCATCGTACTGTAAACCATAGACACCTTTACTATTTTCAGAGTGGTA[CT]TGAATCCTCTGCAAGCTGTGTCGGCCACACCGCTAGGTGG ATTCTATAGTCTCTATATCC
12823 I		S	TGCAGGGCACGCCCCTTCCCT
12823 P	C	S	ATGACGTGGCAGACGTGCTCACTCTCCAGCY
12823 P	G	S	CGCGCCGAGGCTGCTCACTCTCCAGCY
12823 T	C	S	AGGAGCTGGAGAGTGAGCACGGGAAGGGGCGTGCCCTGCAGA
12823 T	G	S	AGGAGCTGGAGAGTGAGCAGGGGAAGGGGCGTGCCCTGCAGA
12823 IS	[CG]		CATGCTGAGCAGTAAGGAGAACGAGCTGAAGGCCGCGCTTCAGGAGCTGGAGAGTGAGCA[CG]GGGAAGGGGCGTGCCCTGCAGAGCCAGCTGGAGGA GGAGCAGCTGCGGCACCTGCAGAGG
12840 I		S	CTCGGCCGTCACTCTGCTGTCCCTT
12840 P	G	S	CGCGCCGAGGCTCCTGGCTGTGAGCY
12840 P	C	S	ATGACGTGGCAGACGTCCTGGCTGTGAGCY

KEN

FIGURE 129E

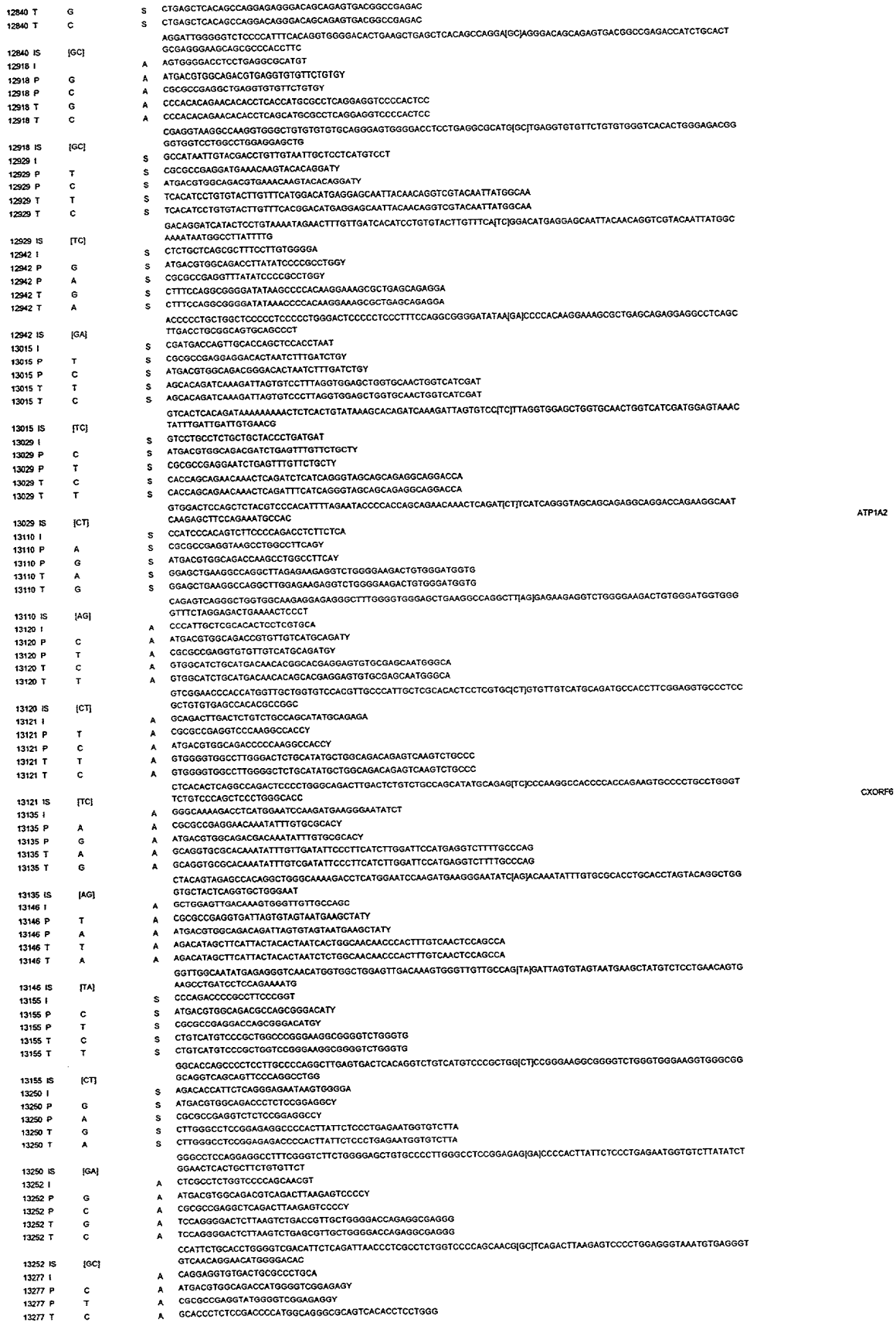

12840 T G S CTGAGCTCACAGCCAGGAGAGGGACAGCAGAGTGACGGCCGAGAC
12840 T C S CTGAGCTCACAGCCAGGACAGGGACAGCAGAGTGACGGCCGAGAC
AGGATTGGGGGTCTCCCCATTTCACAGGTGGGGACACTGAAGCTGAGCTCACAGCCAGGA[GC]AGGGACAGCAGAGTGACGGCCGAGACCATCTGCACT
12840 IS [GC] GCGAGGGAAGCAGCGCCCACCTTC
12918 I A AGTGGGGACCTCCTGAGGCGCATGT
12918 P G A ATGACGTGGCAGACGTGAGGTGTGTTCTGTGY
12918 P C A CGCGCCGAGGCTGAGGTGTGTTCTGTGY
12918 T G A CCCACACAGAACACACCTCACCATGCGCCTCAGGAGGTCCCCACTCC
12918 T C A CCCACACAGAACACACCTCAGCATGCGCCTCAGGAGGTCCCCACTCC
CGAGGTAAGGCCAAGGTGGGCTGTGTGTGTGCAGGGAGTGGGGACCTCCTGAGGCGCATG[GC]TGAGGTGTGTTCTGTGTGGGTCACACTGGGAGACGG
12918 IS [GC] GGTGGTCCTGGCCTGGAGGAGCTG
12929 I S GCCATAATTGTACGACCTGTTGTAATTGCTCCTCATGTCCT
12929 P T S CGCGCCGAGGATGAAACAAGTACACAGGATY
12929 P C S ATGACGTGGCAGACGTGAAACAAGTACACAGGATY
12929 T T S TCACATCCTGTGTACTTGTTTCATGGACATGAGGAGCAATTACAACAGGTCGTACAATTATGGCAA
12929 T C S TCACATCCTGTGTACTTGTTTCACGGACATGAGGAGCAATTACAACAGGTCGTACAATTATGGCAA
GACAGGATCATACTCCTGTAAAATAGAACTTTGTTGATCACATCCTGTGTACTTGTTTCA[TC]GGACATGAGGAGCAATTACAACAGGTCGTACAATTATGGC
12929 IS [TC] AAAATAATGGCCTTATTTTG
12942 I S CTCTGCTCAGCGCTTTCCTTGTGGGGA
12942 P G S ATGACGTGGCAGACCTTATATCCCCGCCTGGY
12942 P A S CGCGCCGAGGTTTATATCCCCGCCTGGY
12942 T G S CTTTCCAGGCGGGGATATAAGCCCCACAAGGAAAGCGCTGAGCAGAGGA
12942 T A S CTTTCCAGGCGGGGATATAAACCCCACAAGGAAAGCGCTGAGCAGAGGA
ACCCCCTGCTGGCTCCCCCTCCCCCTGGGACTCCCCCTCCCTTTCCAGGCGGGGATATAA[GA]CCCCACAAGGAAAGCGCTGAGCAGAGGAGGCCTCAGC
12942 IS [GA] TTGACCTGCGGCAGTGCAGCCCT
13015 I S CGATGACCAGTTGCACCAGCTCCACCTAAT
13015 P T S CGCGCCGAGGAGGACACTAATCTTTGATCTGY
13015 P C S ATGACGTGGCAGACGGGACACTAATCTTTGATCTGY
13015 T T S AGCACAGATCAAAGATTAGTGTCCTTTAGGTGGAGCTGGTGCAACTGGTCATCGAT
13015 T C S AGCACAGATCAAAGATTAGTGTCCCTTAGGTGGAGCTGGTGCAACTGGTCATCGAT
GTCACTCACAGATAAAAAAAAACTCTCACTGTATAAAGCACAGATCAAAGATTAGTGTCC[TC]TTAGGTGGAGCTGGTGCAACTGGTCATCGATGGAGTAAAC
13015 IS [TC] TATTTGATTGATTGTGAACG
13029 I S GTCCTGCCTCTGCTGCTACCCTGATGAT
13029 P C S ATGACGTGGCAGACGATCTGAGTTTGTTCTGCTY
13029 P T S CGCGCCGAGGAATCTGAGTTTGTTCTGCTY
13029 T C S CACCAGCAGAACAAACTCAGATCTCATCAGGGTAGCAGCAGAGGCAGGACCA
13029 T T S CACCAGCAGAACAAACTCAGATTTCATCAGGGTAGCAGCAGAGGCAGGACCA
GTGGACTCCAGCTCTACGTCCCACATTTTAGAATACCCCACCAGCAGAACAAACTCAGAT[CT]TCATCAGGGTAGCAGCAGAGGCAGGACCAGAAGGCAAT
13029 IS [CT] CAAGAGCTTCCAGAAATGCCAC
13110 I S CCATCCCACAGTCTTCCCCAGACCTCTTCTCA
13110 P A S CGCGCCGAGGTAAGCCTGGCCTTCAGY
13110 P G S ATGACGTGGCAGACCAAGCCTGGCCTTCAY
13110 T A S GGAGCTGAAGGCCAGGCTTAGAGAAGAGGTCTGGGGAAGACTGTGGGATGGTG
13110 T G S GGAGCTGAAGGCCAGGCTTGGAGAAGAGGTCTGGGGAAGACTGTGGGATGGTG
CAGAGTCAGGGCTGGTGGCAAGAGGAGAGGGCTTTGGGGTGGGAGCTGAAGGCCAGGCTT[AG]GAGAAGAGGTCTGGGGAAGACTGTGGGATGGTGGG
13110 IS [AG] GTTTCTAGGAGACTGAAAACTCCCT
13120 I A CCCATTGCTCGCACACTCCTCGTGCA
13120 P C A ATGACGTGGCAGACCGTGTTGTCATGCAGATY
13120 P T A CGCGCCGAGGTGTGTTGTCATGCAGATGY
13120 T C A GTGGCATCTGCATGACAACACGGCACGAGGAGTGTGCGAGCAATGGGCA
13120 T T A GTGGCATCTGCATGACAACACAGCACGAGGAGTGTGCGAGCAATGGGCA
GTCGGAACCCACCATGGTTGCTGGTGTCCACGTTGCCCATTGCTCGCACACTCCTCGTGC[CT]GTGTTGTCATGCAGATGCCACCTTCGGAGGTGCCCTCC
13120 IS [CT] GCTGTGTGAGCCACACGCCGGC
13121 I A GCAGACTTGACTCTGTCTGCCAGCATATGCAGAGA
13121 P T A CGCGCCGAGGTCCCAAGGCCACCY
13121 P C A ATGACGTGGCAGACCCCCAAGGCCACCY
13121 T T A GTGGGGTGGCCTTGGGACTCTGCATATGCTGGCAGACAGAGTCAAGTCTGCCC
13121 T C A GTGGGGTGGCCTTGGGGCTCTGCATATGCTGGCAGACAGAGTCAAGTCTGCCC
CTCACACTCAGGCCAGACTCCCCTGGGCAGACTTGACTCTGTCTGCCAGCATATGCAGAG[TC]CCCAAGGCCACCCCACCAGAAGTGCCCCTGCCTGGGT
13121 IS [TC] TCTGTCCCAGCTCCCTGGGCACC
13135 I A GGGCAAAAGACCTCATGGAATCCAAGATGAAGGGAATATCT
13135 P A A CGCGCCGAGGAACAAATATTTGTGCGCACY
13135 P G A ATGACGTGGCAGACGACAAATATTTGTGCGCACY
13135 T A A GCAGGTGCGCACAAATATTTGTTGATATTCCCTTCATCTTGGATTCCATGAGGTCTTTTGCCCAG
13135 T G A GCAGGTGCGCACAAATATTTGTCGATATTCCCTTCATCTTGGATTCCATGAGGTCTTTTGCCCAG
CTACAGTAGAGCCACAGGCTGGGCAAAAGACCTCATGGAATCCAAGATGAAGGGAATATC[AG]ACAAATATTTGTGCGCACCTGCACCTAGTACAGGCTGG
13135 IS [AG] GTGCTACTCAGGTGCTGGGAAT
13146 I A GCTGGAGTTGACAAAGTGGGTTGTTGCCAGC
13146 P T A CGCGCCGAGGTGATTAGTGTAGTAATGAAGCTATY
13146 P A A ATGACGTGGCAGACAGATTAGTGTAGTAATGAAGCTATY
13146 T T A AGACATAGCTTCATTACTACACTAATCACTGGCAACAACCCACTTTGTCAACTCCAGCCA
13146 T A A AGACATAGCTTCATTACTACACTAATCTCTGGCAACAACCCACTTTGTCAACTCCAGCCA
GGTTGGCAATATGAGAGGGTCAACATGGTGGCTGGAGTTGACAAAGTGGGTTGTTGCCAG[TA]GATTAGTGTAGTAATGAAGCTATGTCTCCTGAACAGTG
13146 IS [TA] AAGCCTGATCCTCCAGAAAATG
13155 I S CCCAGACCCCGCCTTCCCGGT
13155 P C S ATGACGTGGCAGACGCCAGCGGGACATY
13155 P T S CGCGCCGAGGACCAGCGGGACATGY
13155 T C S CTGTCATGTCCCGCTGGCCCGGGAAGGCGGGGTCTGGGTG
13155 T T S CTGTCATGTCCCGCTGGTCCGGGAAGGCGGGGTCTGGGTG
GGCACCAGCCCCTCCTTGCCCCAGGCTTGAGTGACTCACAGGTCTGTCATGTCCCGCTGG[CT]CCGGGAAGGCGGGGTCTGGGTGGGAAGGTGGGCGG
13155 IS [CT] GCAGGTCAGCAGTTCCCAGGCCTGG
13250 I S AGACACCATTCTCAGGGAGAATAAGTGGGGA
13250 P G S ATGACGTGGCAGACCCTCTCCGGAGGCY
13250 P A S CGCGCCGAGGTCTCTCCGGAGGCCY
13250 T G S CTTGGGCCTCCGGAGAGGCCCCACTTATTCTCCCTGAGAATGGTGTCTTA
13250 T A S CTTGGGCCTCCGGAGAGACCCCACTTATTCTCCCTGAGAATGGTGTCTTA
GGGCCTCCAGGAGGCCTTTCGGGTCTTCTGGGGAGCTGTGCCCCTTGGGCCTCCGGAGAG[GA]CCCCACTTATTCTCCCTGAGAATGGTGTCTTATATCT
13250 IS [GA] GGAACTCACTGCTTCTGTGTTCT
13252 I A CTCGCCTCTGGTCCCCAGCAACGT
13252 P G A ATGACGTGGCAGACGTCAGACTTAAGAGTCCCCY
13252 P C A CGCGCCGAGGCTCAGACTTAAGAGTCCCCY
13252 T G A TCCAGGGGACTCTTAAGTCTGACCGTTGCTGGGGACCAGAGGCGAGGG
13252 T C A TCCAGGGGACTCTTAAGTCTGAGCGTTGCTGGGGACCAGAGGCGAGGG
CCATTCTGCACCTGGGGTCGACATTCTCAGATTAACCCTCGCCTCTGGTCCCCAGCAACG[GC]TCAGACTTAAGAGTCCCCTGGAGGGTAAATGTGAGGGT
13252 IS [GC] GTCAACAGGAACATGGGGACAC
13277 I A CAGGAGGTGTGACTGCGCCCTGCA
13277 P C A ATGACGTGGCAGACCATGGGGTCGGAGAGY
13277 P T A CGCGCCGAGGTATGGGGTCGGAGAGGY
13277 T C A GCACCCTCTCCGACCCCATGGCAGGGCGCAGTCACACCTCCTGGG
ATP1A2
CXORF6

FIGURE 129E

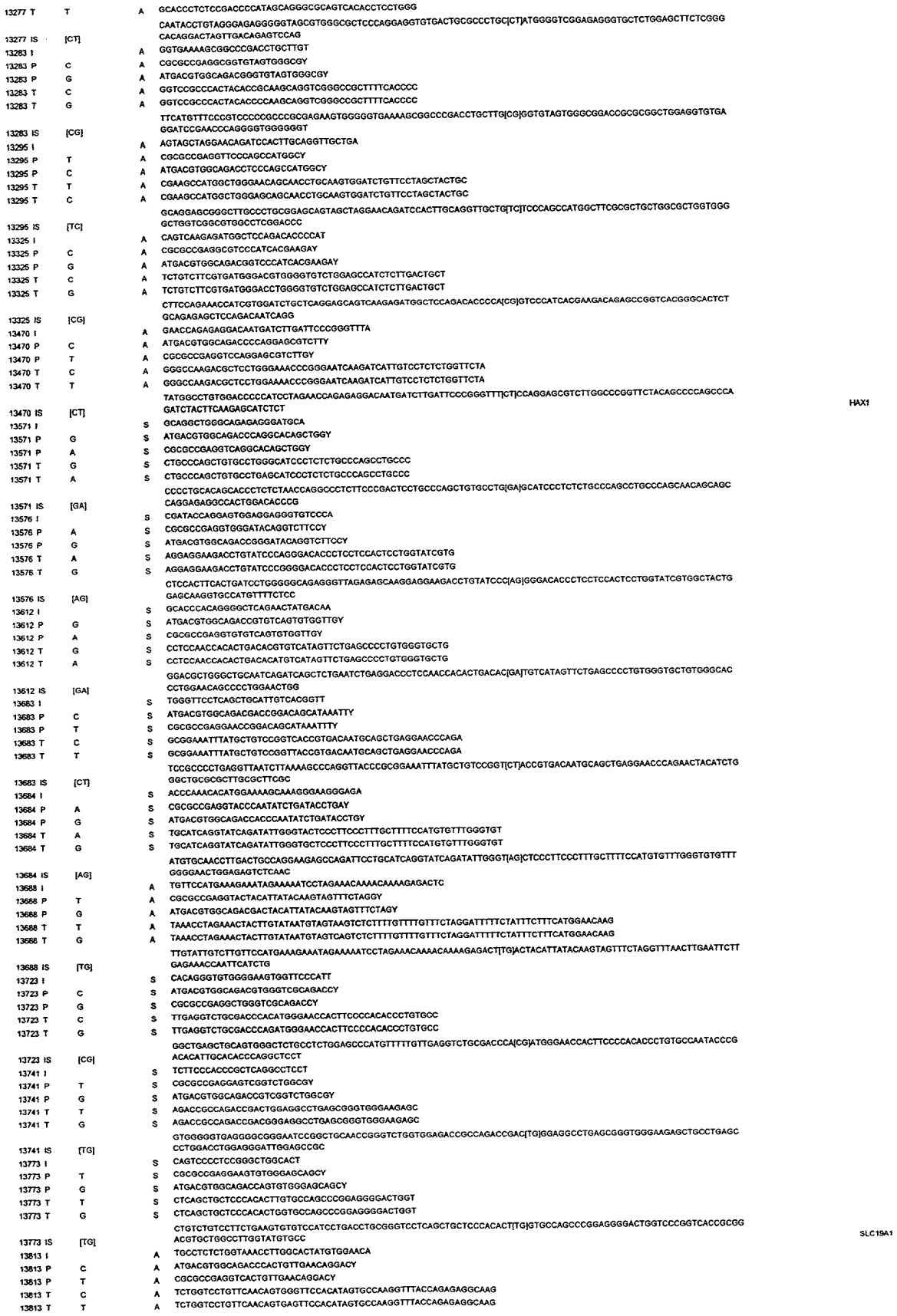

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13277 IS [CT] CAATACCTGTAGGGAGAGGGGGTAGCGTGGGCGCTCCCAGGAGGTGTGACTGCGCCCTGC[CT]ATGGGGTCGGAGAGGGTGCTCTGGAGCTTCTCGGG
13283 I CACAGGACTAGTTGACAGAGTCCAG
13283 P C A GGTGAAAAGCGGCCCGACCTGCTTGT
13283 P G A CGCGCCGAGGCGGTGTAGTGGGCGY
13283 T C A ATGACGTGGCAGACGGGTGTAGTGGGCGY
13283 T G A GGTCCGCCCACTACACCGCAAGCAGGTCGGGCCGCTTTTCACCCC
GGTCCGCCCACTACACCCCAAGCAGGTCGGGCCGCTTTTCACCCC
13283 IS [CG] TTCATGTTTCCCGTCCCCCGCCCGCGAGAAGTGGGGGTGAAAAGCGGCCCGACCTGCTTG[CG]GGTGTAGTGGGCGGACCGCGCGGCTGGAGGTGTGA GGATCCGAACCCAGGGGTGGGGGGT
13295 I A AGTAGCTAGGAACAGATCCACTTGCAGGTTGCTGA
13296 P T A CGCGCCGAGGTTCCCAGCCATGGCY
13295 P C A ATGACGTGGCAGACCTCCCAGCCATGGCY
13295 T T A CGAAGCCATGGCTGGGAACAGCAACCTGCAAGTGGATCTGTTCCTAGCTACTGC
13295 T C A CGAAGCCATGGCTGGGAGCAGCAACCTGCAAGTGGATCTGTTCCTAGCTACTGC
13295 IS [TC] GCAGGAGCGGGCTTGCCCTGCGGAGCAGTAGCTAGGAACAGATCCACTTGCAGGTTGCTG[TC]TCCCAGCCATGGCTTCGCGCTGCTGGCGCTGGTGGG GCTGGTCGGCGTGGCCTCGGACCC
13325 I A CAGTCAAGAGATGGCTCCAGACACCCCAT
13325 P C A CGCGCCGAGGCGTCCCATCACGAAGAY
13325 P G A ATGACGTGGCAGACGGTCCCATCACGAAGAY
13325 T C A TCTGTCTTCGTGATGGGACGTGGGGTGTCTGGAGCCATCTCTTGACTGCT
13325 T G A TCTGTCTTCGTGATGGGACCTGGGGTGTCTGGAGCCATCTCTTGACTGCT
13325 IS [CG] CTTCCAGAAACCATCGTGGATCTGCTCAGGAGCAGTCAAGAGATGGCTCCAGACACCCCA[CG]GTCCCATCACGAAGACAGAGCCGGTCACGGGCACTCT GCAGAGAGCTCCAGACAATCAGG
13470 I A GAACCAGAGAGGACAATGATCTTGATTCCCGGGTTTA
13470 P C A ATGACGTGGCAGACCCCAGGAGCGTCTTY
13470 P T A CGCGCCGAGGTCCAGGAGCGTCTTGY
13470 T C A GGGCCAAGACGCTCCTGGGAAACCCGGGAATCAAGATCATTGTCCTCTCTGGTTCTA
13470 T T A GGGCCAAGACGCTCCTGGAAAACCCGGGAATCAAGATCATTGTCCTCTCTGGTTCTA
13470 IS [CT] TATGGCCTGTGGACCCCCATCCTAGAACCAGAGAGGACAATGATCTTGATTCCCGGGTTT[CT]CCAGGAGCGTCTTGGCCCGGTTCTACAGCCCCAGCCCA GATCTACTTCAAGAGCATCTCT
13571 I S GCAGGCTGGGCAGAGAGGGATGCA
13571 P G S ATGACGTGGCAGACCCAGGCACAGCTGGY
13571 P A S CGCGCCGAGGTCAGGCACAGCTGGY
13571 T G S CTGCCCAGCTGTGCCTGGGCATCCCTCTCTGCCCAGCCTGCCC
13571 T A S CTGCCCAGCTGTGCCTGAGCATCCCTCTCTGCCCAGCCTGCCC
13571 IS [GA] CCCCTGCACAGCACCCTCTCTAACCAGGCCCTCTTCCCGACTCCTGCCCAGCTGTGCCTG[GA]GCATCCCTCTCTGCCCAGCCTGCCCAGCAACAGCAGC CAGGAGAGGCCACTGGACACCCG
13576 I S CGATACCAGGAGTGGAGGAGGGTGTCCCA
13576 P A S CGCGCCGAGGTGGGATACAGGTCTTCCY
13576 P G S ATGACGTGGCAGACCGGGATACAGGTCTTCCY
13576 T A S AGGAGGAAGACCTGTATCCCAGGGACACCCTCCTCCACTCCTGGTATCGTG
13576 T G S AGGAGGAAGACCTGTATCCCGGGGACACCCTCCTCCACTCCTGGTATCGTG
13576 IS [AG] CTCCACTTCACTGATCCTGGGGGCAGAGGGTTAGAGAGCAAGGAGGAAGACCTGTATCCC[AG]GGGACACCCTCCTCCACTCCTGGTATCGTGGCTACTG GAGCAAGGTGCCATGTTTTCTCC
13612 I S GCACCCACAGGGGCTCAGAACTATGACAA
13612 P G S ATGACGTGGCAGACCGTGTCAGTGTGGTTGY
13612 P A S CGCGCCGAGGTGTGTCAGTGTGGTTGY
13612 T G S CCTCCAACCACACTGACACGTGTCATAGTTCTGAGCCCCTGTGGGTGCTG
13612 T A S CCTCCAACCACACTGACACATGTCATAGTTCTGAGCCCCTGTGGGTGCTG
13612 IS [GA] GGACGCTGGGCTGCAATCAGATCAGCTCTGAATCTGAGGACCCTCCAACCACACTGACAC[GA]TGTCATAGTTCTGAGCCCCTGTGGGTGCTGTGGGCAC CCTGGAACAGCCCCTGGAACTGG
13683 I S TGGGTTCCTCAGCTGCATTGTCACGGTT
13683 P C S ATGACGTGGCAGACGACCGGACAGCATAAATTY
13683 P T S CGCGCCGAGGAACCGGACAGCATAAATTTY
13683 T C S GCGGAAATTTATGCTGTCCGGTCACCGTGACAATGCAGCTGAGGAACCCAGA
13683 T T S GCGGAAATTTATGCTGTCCGGTTACCGTGACAATGCAGCTGAGGAACCCAGA
13683 IS [CT] TCCGCCCCTGAGGTTAATCTTAAAAGCCCAGGTTACCCGCGGAAATTTATGCTGTCCGGT[CT]ACCGTGACAATGCAGCTGAGGAACCCAGAACTACATCTG GGCTGCGCGCTTGCGCTTCGC
13684 I S ACCCAAACACATGGAAAAGCAAAGGGAAGGGAGA
13684 P A S CGCGCCGAGGTACCCAATATCTGATACCTGAY
13684 P G S ATGACGTGGCAGACCACCCAATATCTGATACCTGY
13684 T A S TGCATCAGGTATCAGATATTGGGTACTCCCTTCCCTTTGCTTTTCCATGTGTTTGGGTGT
13684 T G S TGCATCAGGTATCAGATATTGGGTGCTCCCTTCCCTTTGCTTTTCCATGTGTTTGGGTGT
13684 IS [AG] ATGTGCAACCTTGACTGCCAGGAAGAGCCAGATTCCTGCATCAGGTATCAGATATTGGGT[AG]CTCCCTTCCCTTTGCTTTTCCATGTGTTTGGGTGTGTTT GGGGAACTGGAGAGTCTCAAC
13688 I A TGTTCCATGAAAGAAATAGAAAAATCCTAGAAACAAAACAAAAGAGACTC
13688 P T A CGCGCCGAGGTACTACATTATACAAGTAGTTTCTAGGY
13688 P G A ATGACGTGGCAGACGACTACATTATACAAGTAGTTTCTAGY
13688 T T A TAAACCTAGAAACTACTTGTATAATGTAGTAAGTCTCTTTTGTTTTGTTTCTAGGATTTTTCTATTTCTTTCATGGAACAAG
13688 T G A TAAACCTAGAAACTACTTGTATAATGTAGTCAGTCTCTTTTGTTTTGTTTCTAGGATTTTTCTATTTCTTTCATGGAACAAG
13688 IS [TG] TTGTATTGTCTTGTTCCATGAAAGAAATAGAAAAATCCTAGAAACAAAACAAAAGAGACT[TG]ACTACATTATACAAGTAGTTTCTAGGTTTAACTTGAATTCTT GAGAAACCAATTCATCTG
13723 I S CACAGGGTGTGGGGAAGTGGTTCCCATT
13723 P C S ATGACGTGGCAGACGTGGGTCGCAGACCY
13723 P G S CGCGCCGAGGCTGGGTCGCAGACCY
13723 T C S TTGAGGTCTGCGACCCACATGGGAACCACTTCCCCACACCCTGTGCC
13723 T G S TTGAGGTCTGCGACCCAGATGGGAACCACTTCCCCACACCCTGTGCC
13723 IS [CG] GGCTGAGCTGCAGTGGGCTCTGCCTCTGGAGCCCATGTTTTTGTTGAGGTCTGCGACCCA[CG]ATGGGAACCACTTCCCCACACCCTGTGCCAATACCCG ACACATTGCACACCCAGGCTCCT
13741 I S TCTTCCCACCCGCTCAGGCCTCCT
13741 P T S CGCGCCGAGGAGTCGGTCTGGCGY
13741 P G S ATGACGTGGCAGACCGTCGGTCTGGCGY
13741 T T S AGACCGCCAGACCGACTGGAGGCCTGAGCGGGTGGGAAGAGC
13741 T G S AGACCGCCAGACCGACGGGAGGCCTGAGCGGGTGGGAAGAGC
13741 IS [TG] GTGGGGGTGAGGGGCGGGAATCCGGCTGCAACCGGGTCTGGTGGAGACCGCCAGACCGAC[TG]GGAGGCCTGAGCGGGTGGGAAGAGCTGCCTGAGC CCTGGACCTGGAGGGATTGGAGCCGC
13773 I S CAGTCCCCTCCGGGCTGGCACT
13773 P T S CGCGCCGAGGAAGTGTGGGAGCAGCY
13773 P G S ATGACGTGGCAGACCAGTGTGGGAGCAGCY
13773 T T S CTCAGCTGCTCCCACACTTGTGCCAGCCCGGAGGGGACTGGT
13773 T G S CTCAGCTGCTCCCACACTGGTGCCAGCCCGGAGGGGACTGGT
13773 IS [TG] CTGTCTGTCCTTCTGAAGTGTGTCCATCCTGACCTGCGGGTCCTCAGCTGCTCCCACACT[TG]GTGCCAGCCCGGAGGGGACTGGTCCCGGTCACCGCGG ACGTGCTGGCCTTGGTATGTGCC
13813 I A TGCCTCTCTGGTAAACCTTGGCACTATGTGGAACA
13813 P C A ATGACGTGGCAGACCCACTGTTGAACAGGACY
13813 P T A CGCGCCGAGGTCACTGTTGAACAGGACY
13813 T C A TCTGGTCCTGTTCAACAGTGGGTTCCACATAGTGCCAAGGTTTACCAGAGAGGCAAG
13813 T T A TCTGGTCCTGTTCAACAGTGAGTTCCACATAGTGCCAAGGTTTACCAGAGAGGCAAG
HAX1
SLC19A1

FIGURE 129E

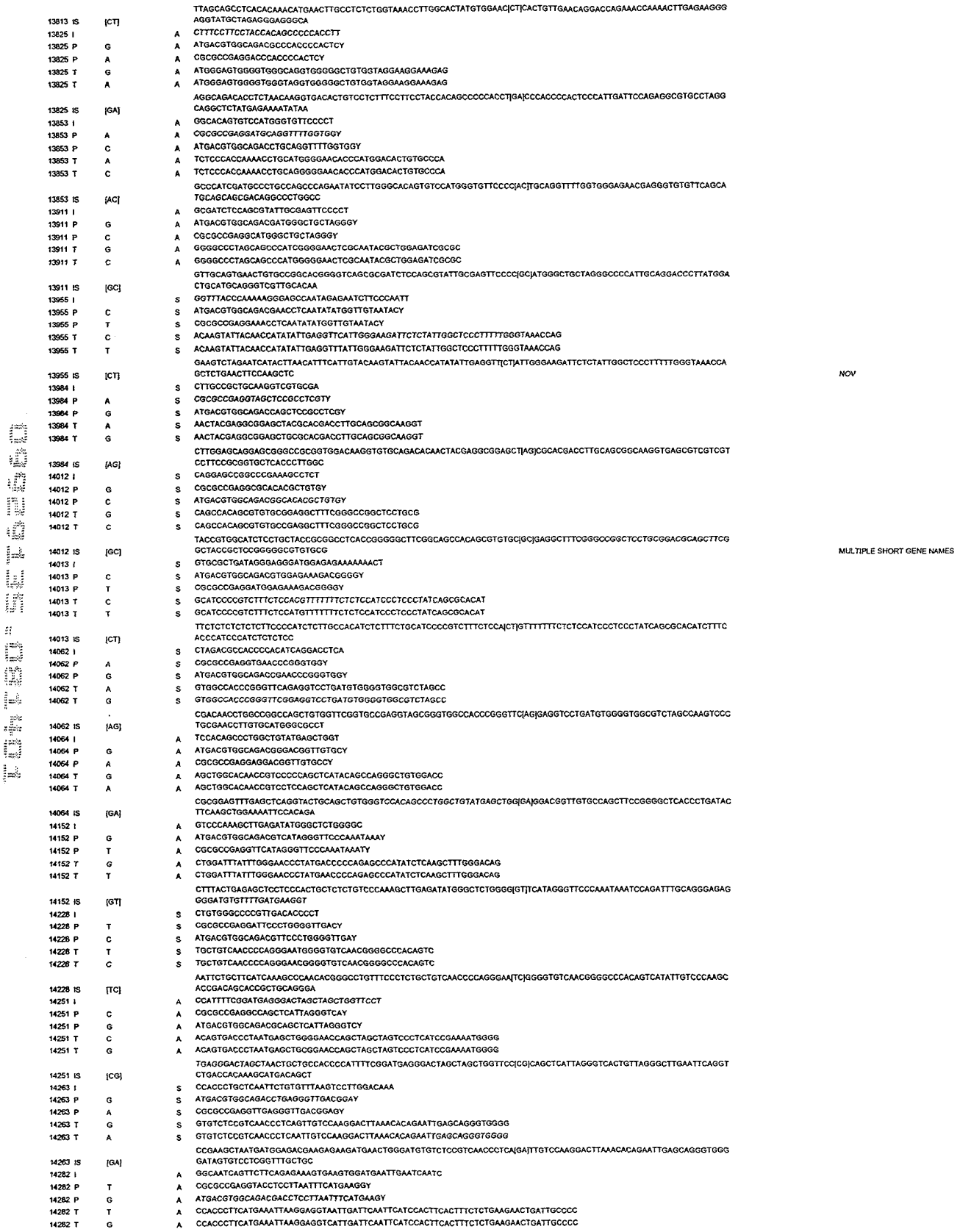

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13813 IS [CT] AGGTATGCTAGAGGGAGGGCA
13825 I A CTTTCCTTCCTACCACAGCCCCCACCTT
13825 P G A ATGACGTGGCAGACGCCCACCCCACTCY
13825 P A A CGCGCCGAGGACCCACCCCACTCY
13825 T G A ATGGGAGTGGGGTGGGCAGGTGGGGGCTGTGGTAGGAAGGAAAGAG
13825 T A A ATGGGAGTGGGGTGGGTAGGTGGGGGCTGTGGTAGGAAGGAAAGAG
AGGCAGACACCTCTAACAAGGTGACACTGTCCTCTTTCCTTCCTACCACAGCCCCCACCT[GA]CCCACCCCACTCCCATTGATTCCAGAGGCGTGCCTAGG
13825 IS [GA] CAGGCTCTATGAGAAAATATAA
13853 I A GGCACAGTGTCCATGGGTGTTCCCCT
13853 P A A CGCGCCGAGGATGCAGGTTTTGGTGGY
13853 P C A ATGACGTGGCAGACCTGCAGGTTTTGGTGGY
13853 T A A TCTCCCACCAAAACCTGCATGGGGAACACCCATGGACACTGTGCCCA
13853 T C A TCTCCCACCAAAACCTGCAGGGGGAACACCCATGGACACTGTGCCCA
GCCCATCGATGCCCTGCCAGCCCAGAATATCCTTGGGCACAGTGTCCATGGGTGTTCCCC[AC]TGCAGGTTTTGGTGGGAGAACGAGGGTGTGTTCAGCA
13853 IS [AC] TGCAGCAGCGACAGGCCCTGGCC
13911 I A GCGATCTCCAGCGTATTGCGAGTTCCCCT
13911 P G A ATGACGTGGCAGACGATGGGCTGCTAGGGY
13911 P C A CGCGCCGAGGCATGGGCTGCTAGGGY
13911 T G A GGGGCCCTAGCAGCCCATCGGGGAACTCGCAATACGCTGGAGATCGCGC
13911 T C A GGGGCCCTAGCAGCCCATGGGGGAACTCGCAATACGCTGGAGATCGCGC
GTTGCAGTGAACTGTGCCGGCACGGGGTCAGCGCGATCTCCAGCGTATTGCGAGTTCCCC[GC]ATGGGCTGCTAGGGCCCCATTGCAGGACCCTTATGGA
13911 IS [GC] CTGCATGCAGGGTCGTTGCACAA
13955 I S GGTTTACCCAAAAAGGGAGCCAATAGAGAATCTTCCCAATT
13955 P C S ATGACGTGGCAGACGAACCTCAATATATGGTTGTAATACY
13955 P T S CGCGCCGAGGAAAACCTCAATATATGGTTGTAATACY
13955 T C S ACAAGTATTACAACCATATATTGAGGTTCATTGGGAAGATTCTCTATTGGCTCCCTTTTTGGGTAAACCAG
13955 T T S ACAAGTATTACAACCATATATTGAGGTTTATTGGGAAGATTCTCTATTGGCTCCCTTTTTGGGTAAACCAG
GAAGTCTAGAATCATACTTAACATTTCATTGTACAAGTATTACAACCATATATTGAGGTT[CT]ATTGGGAAGATTCTCTATTGGCTCCCTTTTTGGGTAAACCA
13955 IS [CT] GCTCTGAACTTCCAAGCTC NOV
13984 I S CTTGCCGCTGCAAGGTCGTGCGA
13984 P A S CGCGCCGAGGTAGCTCCGCCTCGTY
13984 P G S ATGACGTGGCAGACCAGCTCCGCCTCGY
13984 T A S AACTACGAGGCGGAGCTACGCACGACCTTGCAGCGGCAAGGT
13984 T G S AACTACGAGGCGGAGCTGCGCACGACCTTGCAGCGGCAAGGT
CTTGGAGCAGGAGCGGGCCGCGGTGGACAAGGTGTGCAGACACAACTACGAGGCGGAGCT[AG]CGCACGACCTTGCAGCGGCAAGGTGAGCGTCGTCGT
13984 IS [AG] CCTTCCGCGGTGCTCACCCTTGGC
14012 I S CAGGAGCCGGCCCGAAAGCCTCT
14012 P G S CGCGCCGAGGCGCACACGCTGTGY
14012 P C S ATGACGTGGCAGACGGCACACGCTGTGY
14012 T G S CAGCCACAGCGTGTGCGGAGGCTTTCGGGCCGGCTCCTGCG
14012 T C S CAGCCACAGCGTGTGCCGAGGCTTTCGGGCCGGCTCCTGCG
TACCGTGGCATCTCCTGCTACCGCGGCCTCACCGGGGGCTTCGGCAGCCACAGCGTGTGC[GC]GAGGCTTTCGGGCCGGCTCCTGCGGACGCAGCTTCG
14012 IS [GC] GCTACCGCTCCGGGGGCGTGTGCG MULTIPLE SHORT GENE NAMES
14013 I S GTGCGCTGATAGGGAGGGATGGAGAGAAAAAAACT
14013 P C S ATGACGTGGCAGACGTGGAGAAAGACGGGGY
14013 P T S CGCGCCGAGGATGGAGAAAGACGGGGY
14013 T C S GCATCCCCGTCTTTCTCCACGTTTTTTTCTCTCCATCCCTCCCTATCAGCGCACAT
14013 T T S GCATCCCCGTCTTTCTCCATGTTTTTTTCTCTCCATCCCTCCCTATCAGCGCACAT
TTCTCTCTCTCTTCCCCATCTCTTGCCACATCTCTTTCTGCATCCCCGTCTTTCTCCA[CT]GTTTTTTTCTCTCCATCCCTCCCTATCAGCGCACATCTTTC
14013 IS [CT] ACCCATCCCATCTCTCTCC
14062 I S CTAGACGCCACCCCACATCAGGACCTCA
14062 P A S CGCGCCGAGGTGAACCCGGGTGGY
14062 P G S ATGACGTGGCAGACCGAACCCGGGTGGY
14062 T A S GTGGCCACCCGGGTTCAGAGGTCCTGATGTGGGGTGGCGTCTAGCC
14062 T G S GTGGCCACCCGGGTTCGGAGGTCCTGATGTGGGGTGGCGTCTAGCC
CGACAACCTGGCCGGCCAGCTGTGGTTCGGTGCCGAGGTAGCGGGTGGCCACCCGGGTTC[AG]GAGGTCCTGATGTGGGGTGGCGTCTAGCCAAGTCCC
14062 IS [AG] TGCGAACCTTGTGCATGGGCGCCT
14064 I A TCCACAGCCCTGGCTGTATGAGCTGGT
14064 P G A ATGACGTGGCAGACGGGACGGTTGTGCY
14064 P A A CGCGCCGAGGAGGACGGTTGTGCCY
14064 T G A AGCTGGCACAACCGTCCCCCAGCTCATACAGCCAGGGCTGTGGACC
14064 T A A AGCTGGCACAACCGTCCTCCAGCTCATACAGCCAGGGCTGTGGACC
CGCGGAGTTTGAGCTCAGGTACTGCAGCTGTGGGTCCACAGCCCTGGCTGTATGAGCTGG[GA]GGACGGTTGTGCCAGCTTCCGGGGCTCACCCTGATAC
14064 IS [GA] TTCAAGCTGGAAAATTCCACAGA
14152 I A GTCCCAAAGCTTGAGATATGGGCTCTGGGGC
14152 P G A ATGACGTGGCAGACGTCATAGGGTTCCCAAATAAAY
14152 P T A CGCGCCGAGGTTCATAGGGTTCCCAAATAAATY
14152 T G A CTGGATTTATTTGGGAACCCTATGACCCCCAGAGCCCATATCTCAAGCTTTGGGACAG
14152 T T A CTGGATTTATTTGGGAACCCTATGAACCCCAGAGCCCATATCTCAAGCTTTGGGACAG
CTTTACTGAGAGCTCCTCCCACTGCTCTCTGTCCCAAAGCTTGAGATATGGGCTCTGGGG[GT]TCATAGGGTTCCCAAATAAATCCAGATTTGCAGGGAGAG
14152 IS [GT] GGGATGTGTTTTGATGAAGGT
14228 I S CTGTGGGCCCCGTTGACACCCCT
14228 P T S CGCGCCGAGGATTCCCTGGGGTTGACY
14228 P C S ATGACGTGGCAGACGTTCCCTGGGGTTGAY
14228 T T S TGCTGTCAACCCCAGGGAATGGGGTGTCAACGGGGCCCACAGTC
14228 T C S TGCTGTCAACCCCAGGGAACGGGGTGTCAACGGGGCCCACAGTC
AATTCTGCTTCATCAAAGCCCAACACGGGCCTGTTTCCCTCTGCTGTCAACCCCAGGGAA[TC]GGGGTGTCAACGGGGCCCACAGTCATATTGTCCCAAGC
14228 IS [TC] ACCGACAGCACCGCTGCAGGGA
14251 I A CCATTTTCGGATGAGGGACTAGCTAGCTGGTTCCT
14251 P C A CGCGCCGAGGCCAGCTCATTAGGGTCAY
14251 P G A ATGACGTGGCAGACGCAGCTCATTAGGGTCY
14251 T C A ACAGTGACCCTAATGAGCTGGGAACCAGCTAGCTAGTCCCTCATCCGAAAATGGGG
14251 T G A ACAGTGACCCTAATGAGCTGCGGAACCAGCTAGCTAGTCCCTCATCCGAAAATGGGG
TGAGGGACTAGCTAACTGCTGCCACCCCATTTTCGGATGAGGGACTAGCTAGCTGGTTCC[CG]CAGCTCATTAGGGTCACTGTTAGGGCTTGAATTCAGGT
14251 IS [CG] CTGACCACAAAGCATGACAGCT
14263 I S CCACCCTGCTCAATTCTGTGTTTAAGTCCTTGGACAAA
14263 P G S ATGACGTGGCAGACCTGAGGGTTGACGGAY
14263 P A S CGCGCCGAGGTTGAGGGTTGACGGAGY
14263 T G S GTGTCTCCGTCAACCCTCAGTTGTCCAAGGACTTAAACACAGAATTGAGCAGGGTGGGG
14263 T A S GTGTCTCCGTCAACCCTCAATTGTCCAAGGACTTAAACACAGAATTGAGCAGGGTGGGG
CCGAAGCTAATGATGGAGACGAAGAGAAGATGAACTGGGATGTGTCTCCGTCAACCCTCA[GA]TTGTCCAAGGACTTAAACACAGAATTGAGCAGGGTGGG
14263 IS [GA] GATAGTGTCCTCGGTTTGCTGC
14282 I A GGCAATCAGTTCTTCAGAGAAAGTGAAGTGGATGAATTGAATCAATC
14282 P T A CGCGCCGAGGTACCTCCTTAATTTCATGAAGGY
14282 P G A ATGACGTGGCAGACGACCTCCTTAATTTCATGAAGY
14282 T T A CCACCCTTCATGAAATTAAGGAGGTAATTGATTCAATTCATCCACTTCACTTTCTCTGAAGAACTGATTGCCCC
14282 T G A CCACCCTTCATGAAATTAAGGAGGTCATTGATTCAATTCATCCACTTCACTTTCTCTGAAGAACTGATTGCCCC

FIGURE 129E

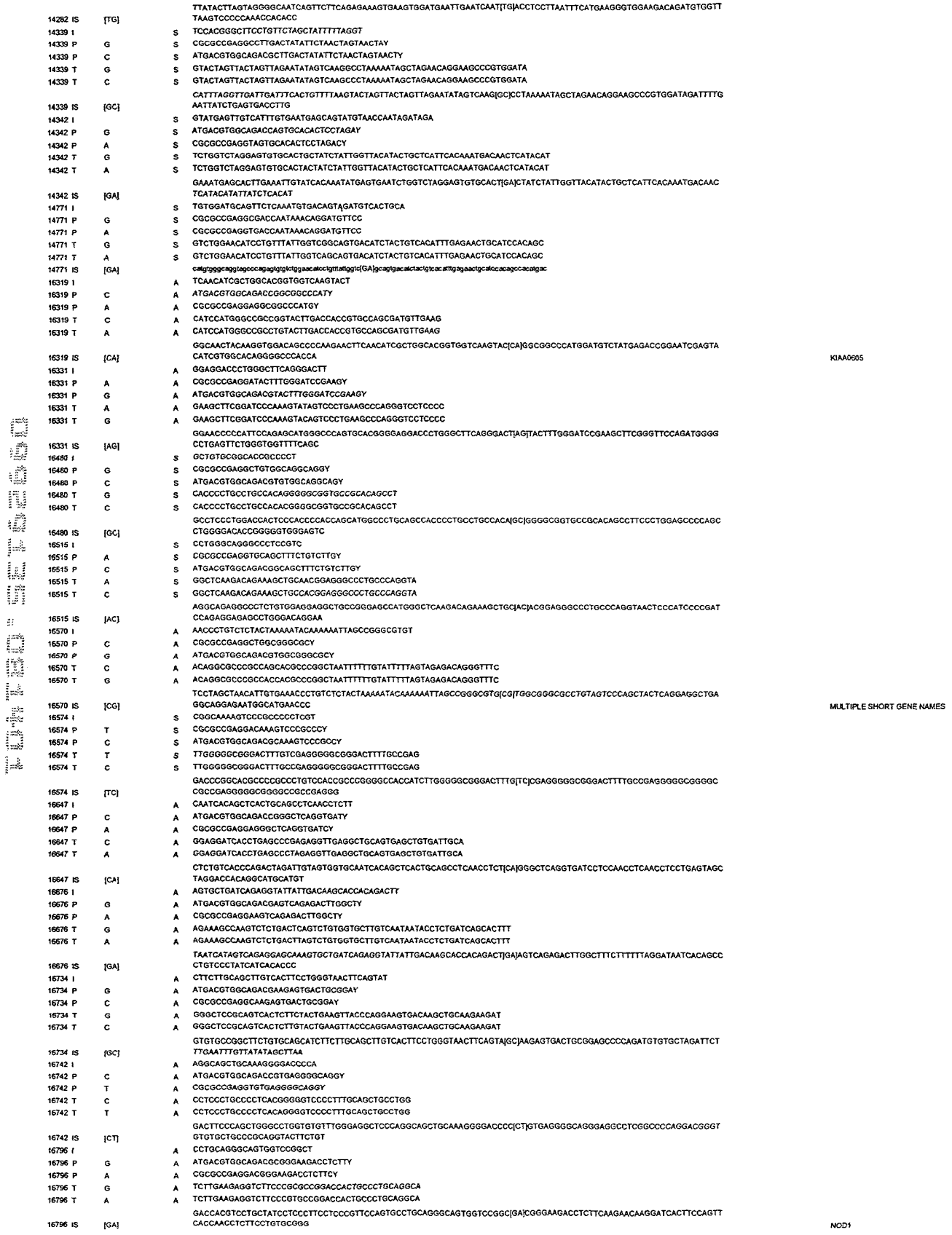
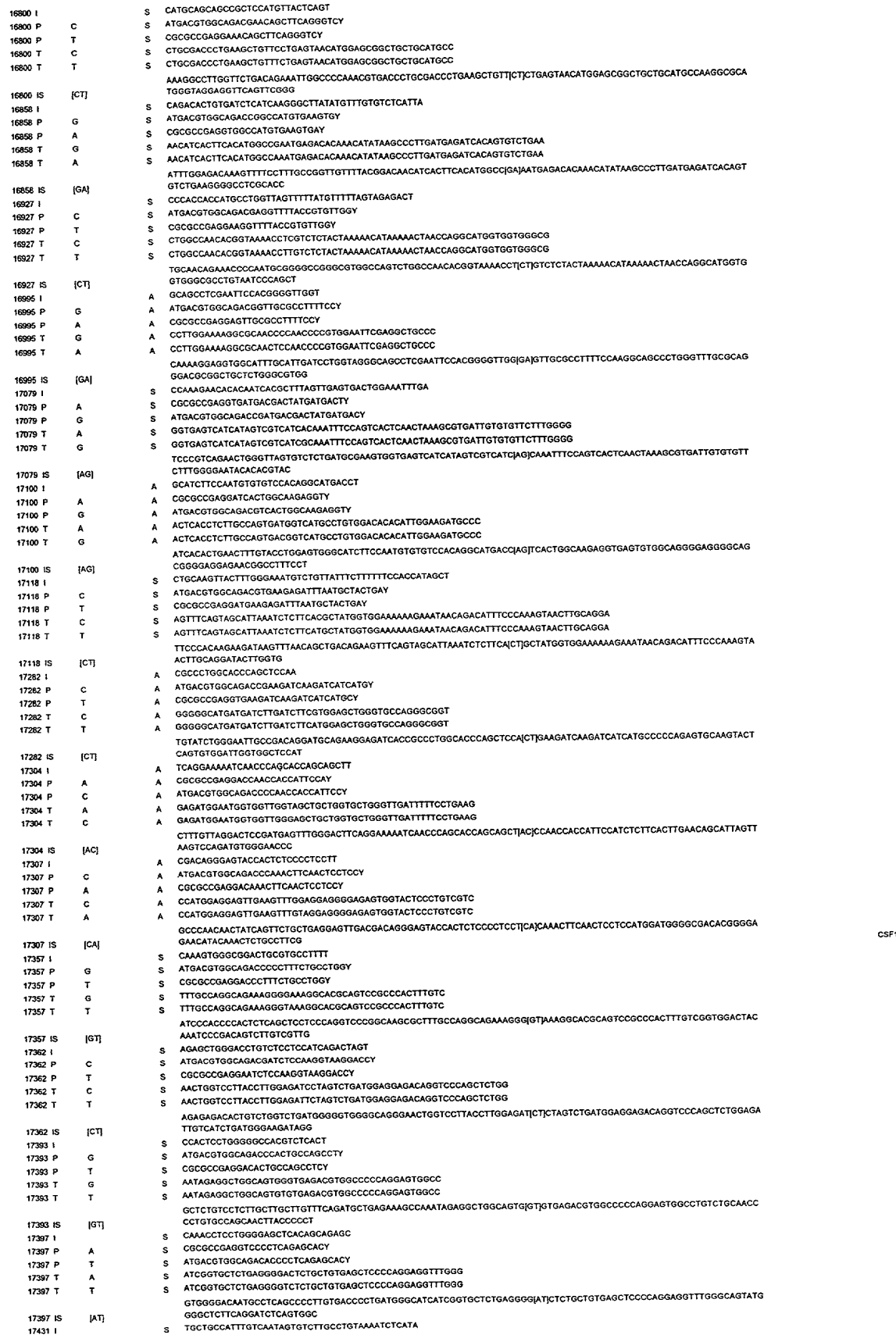

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14282 IS [TG] TAAGTCCCCCAAACCACACC
14339 I S TCCACGGGCTTCCTGTTCTAGCTATTTTTAGGT
14339 P G S CGCGCCGAGGCCTTGACTATATTCTAACTAGTAACTAY
14339 P C S ATGACGTGGCAGACGCTTGACTATATTCTAACTAGTAACTY
14339 T G S GTACTAGTTACTAGTTAGAATATAGTCAAGGCCTAAAAATAGCTAGAACAGGAAGCCCGTGGATA
14339 T C S GTACTAGTTACTAGTTAGAATATAGTCAAGCCCTAAAAATAGCTAGAACAGGAAGCCCGTGGATA
CATTTAGGTTGATTGATTTCACTGTTTTAAGTACTAGTTACTAGTTAGAATATAGTCAAG[GC]CCTAAAAATAGCTAGAACAGGAAGCCCGTGGATAGATTTTG
14339 IS [GC] AATTATCTGAGTGACCTTG
14342 I S GTATGAGTTGTCATTTGTGAATGAGCAGTATGTAACCAATAGATAGA
14342 P G S ATGACGTGGCAGACCAGTGCACACTCCTAGAY
14342 P A S CGCGCCGAGGTAGTGCACACTCCTAGACY
14342 T G S TCTGGTCTAGGAGTGTGCACTGCTATCTATTGGTTACATACTGCTCATTCACAAATGACAACTCATACAT
14342 T A S TCTGGTCTAGGAGTGTGCACTACTATCTATTGGTTACATACTGCTCATTCACAAATGACAACTCATACAT
GAAATGAGCACTTGAAATTGTATCACAAATATGAGTGAATCTGGTCTAGGAGTGTGCACT[GA]CTATCTATTGGTTACATACTGCTCATTCACAAATGACAAC
14342 IS [GA] TCATACATATTATCTCACAT
14771 I S TGTGGATGCAGTTCTCAAATGTGACAGTAGATGTCACTGCA
14771 P G S CGCGCCGAGGCGACCAATAAACAGGATGTTCC
14771 P A S CGCGCCGAGGTGACCAATAAACAGGATGTTCC
14771 T G S GTCTGGAACATCCTGTTTATTGGTCGGCAGTGACATCTACTGTCACATTTGAGAACTGCATCCACAGC
14771 T A S GTCTGGAACATCCTGTTTATTGGTCAGCAGTGACATCTACTGTCACATTTGAGAACTGCATCCACAGC
14771 IS [GA] catgtgggcaggtagcccagagtgtgtctggaacatcctgtttattggtc[GA]gcagtgacatctactgtcacatttgagaactgcatccacagccacatgac
16319 I A TCAACATCGCTGGCACGGTGGTCAAGTACT
16319 P C A ATGACGTGGCAGACCGGCGGCCCATY
16319 P A A CGCGCCGAGGAGGCGGCCCATGY
16319 T C A CATCCATGGGCCGCCGGTACTTGACCACCGTGCCAGCGATGTTGAAG
16319 T A A CATCCATGGGCCGCCTGTACTTGACCACCGTGCCAGCGATGTTGAAG
GGCAACTACAAGGTGGACAGCCCCAAGAACTTCAACATCGCTGGCACGGTGGTCAAGTAC[CA]GGCGGCCCATGGATGTCTATGAGACCGGAATCGAGTA
16319 IS [CA] CATCGTGGCACAGGGGCCCACCA KIAA0605
16331 I A GGAGGACCCTGGGCTTCAGGGACTT
16331 P A A CGCGCCGAGGATACTTTGGGATCCGAAGY
16331 P G A ATGACGTGGCAGACGTACTTTGGGATCCGAAGY
16331 T A A GAAGCTTCGGATCCCAAAGTATAGTCCCTGAAGCCCAGGGTCCTCCCC
16331 T G A GAAGCTTCGGATCCCAAAGTACAGTCCCTGAAGCCCAGGGTCCTCCCC
GGAACCCCCATTCCAGAGCATGGGCCCAGTGCACGGGGAGGACCCTGGGCTTCAGGGACT[AG]TACTTTGGGATCCGAAGCTTCGGGTTCCAGATGGGG
16331 IS [AG] CCTGAGTTCTGGGTGGTTTTCAGC
16480 I S GCTGTGCGGCACCGCCCCT
16480 P G S CGCGCCGAGGCTGTGGCAGGCAGGY
16480 P C S ATGACGTGGCAGACGTGTGGCAGGCAGY
16480 T G S CACCCCTGCCTGCCACAGGGGGCGGTGCCGCACAGCCT
16480 T C S CACCCCTGCCTGCCACACGGGGCGGTGCCGCACAGCCT
GCCTCCCTGGACCACTCCCACCCCACCAGCATGGCCCTGCAGCCACCCCTGCCTGCCACA[GC]GGGGCGGTGCCGCACAGCCTTCCCTGGAGCCCCAGC
16480 IS [GC] CTGGGGACACCGGGGGTGGGAGTC
16515 I S CCTGGGCAGGGCCCTCCGTC
16515 P A S CGCGCCGAGGTGCAGCTTTCTGTCTTGY
16515 P C S ATGACGTGGCAGACGGCAGCTTTCTGTCTTGY
16515 T A S GGCTCAAGACAGAAAGCTGCAACGGAGGGCCCTGCCCAGGTA
16515 T C S GGCTCAAGACAGAAAGCTGCCACGGAGGGCCCTGCCCAGGTA
AGGCAGAGGCCCTCTGTGGAGGAGGCTGCCGGGAGCCATGGGCTCAAGACAGAAAGCTGC[AC]ACGGAGGGCCCTGCCCAGGTAACTCCCATCCCCGAT
16515 IS [AC] CCAGAGGAGAGCCTGGGACAGGAA
16570 I A AACCCTGTCTCTACTAAAAATACAAAAAATTAGCCGGGCGTGT
16570 P C A CGCGCCGAGGCTGGCGGGCGCY
16570 P G A ATGACGTGGCAGACGTGGCGGGCGCY
16570 T C A ACAGGCGCCCGCCAGCAGCCCGGCTAATTTTTTGTATTTTTAGTAGAGACAGGGTTTC
16570 T G A ACAGGCGCCCGCCACCACGCCCGGCTAATTTTTTGTATTTTTAGTAGAGACAGGGTTTC
TCCTAGCTAACATTGTGAAACCCTGTCTCTACTAAAAATACAAAAAATTAGCCGGGCGTG[CG]TGGCGGGCGCCTGTAGTCCCAGCTACTCAGGAGGCTGA
16570 IS [CG] GGCAGGAGAATGGCATGAACCC MULTIPLE SHORT GENE NAMES
16574 I S CGGCAAAAGTCCCGCCCCCTCGT
16574 P T S CGCGCCGAGGACAAAGTCCCGCCCY
16574 P C S ATGACGTGGCAGACGCAAAGTCCCGCCY
16574 T T S TTGGGGGCGGGACTTTGTCGAGGGGGCGGGACTTTTGCCGAG
16574 T C S TTGGGGGCGGGACTTTGCCGAGGGGGCGGGACTTTTGCCGAG
GACCCGGCACGCCCCGCCCTGTCCACCGCCCGGGGCCACCATCTTGGGGGCGGGACTTTG[TC]CGAGGGGGCGGGACTTTTGCCGAGGGGGCGGGGC
16574 IS [TC] CGCCGAGGGGGCGGGCCGCCGAGGG
16647 I A CAATCACAGCTCACTGCAGCCTCAACCTCTT
16647 P C A ATGACGTGGCAGACCGGGCTCAGGTGATY
16647 P A A CGCGCCGAGGAGGGCTCAGGTGATCY
16647 T C A GGAGGATCACCTGAGCCCGAGAGGTTGAGGCTGCAGTGAGCTGTGATTGCA
16647 T A A GGAGGATCACCTGAGCCCTAGAGGTTGAGGCTGCAGTGAGCTGTGATTGCA
CTCTGTCACCCAGACTAGATTGTAGTGGTGCAATCACAGCTCACTGCAGCCTCAACCTCT[CA]GGGCTCAGGTGATCCTCCAACCTCAACCTCCTGAGTAGC
16647 IS [CA] TAGGACCACAGGCATGCATGT
16676 I A AGTGCTGATCAGAGGTATTATTGACAAGCACCACAGACTT
16676 P G A ATGACGTGGCAGACGAGTCAGAGACTTGGCTY
16676 P A A CGCGCCGAGGAAGTCAGAGACTTGGCTY
16676 T G A AGAAAGCCAAGTCTCTGACTCAGTCTGTGGTGCTTGTCAATAATACCTCTGATCAGCACTTT
16676 T A A AGAAAGCCAAGTCTCTGACTTAGTCTGTGGTGCTTGTCAATAATACCTCTGATCAGCACTTT
TAATCATAGTCAGAGGAGCAAAGTGCTGATCAGAGGTATTATTGACAAGCACCACAGACT[GA]AGTCAGAGACTTGGCTTTCTTTTTTAGGATAATCACAGCC
16676 IS [GA] CTGTCCCTATCATCACACCC
16734 I A CTTCTTGCAGCTTGTCACTTCCTGGGTAACTTCAGTAT
16734 P G A ATGACGTGGCAGACGAAGAGTGACTGCGGAY
16734 P C A CGCGCCGAGGCAAGAGTGACTGCGGAY
16734 T G A GGGCTCCGCAGTCACTCTTCTACTGAAGTTACCCAGGAAGTGACAAGCTGCAAGAAGAT
16734 T C A GGGCTCCGCAGTCACTCTTGTACTGAAGTTACCCAGGAAGTGACAAGCTGCAAGAAGAT
GTGTGCCGGCTTCTGTGCAGCATCTTCTTGCAGCTTGTCACTTCCTGGGTAACTTCAGTA[GC]AAGAGTGACTGCGGAGCCCCAGATGTGTGCTAGATTCT
16734 IS [GC] TTGAATTTGTTATATAGCTTAA
16742 I A AGGCAGCTGCAAAGGGGACCCCA
16742 P C A ATGACGTGGCAGACCGTGAGGGGCAGGY
16742 P T A CGCGCCGAGGTGTGAGGGGCAGGY
16742 T C A CCTCCCTGCCCCTCACGGGGGTCCCCTTTGCAGCTGCCTGG
16742 T T A CCTCCCTGCCCCTCACAGGGGTCCCCTTTGCAGCTGCCTGG
GACTTCCCAGCTGGGCCTGGTGTGTTTGGGAGGCTCCCAGGCAGCTGCAAAGGGGACCCC[CT]GTGAGGGGCAGGGAGGCCTCGGCCCCAGGACGGGT
16742 IS [CT] GTGTGCTGCCCGCAGGTACTTCTGT
16796 I A CCTGCAGGGCAGTGGTCCGGCT
16796 P G A ATGACGTGGCAGACGCGGAAGACCTCTTY
16796 P A A CGCGCCGAGGACGGGAAGACCTCTTCY
16796 T G A TCTTGAAGAGGTCTTCCCGCGCCGGACCACTGCCCTGCAGGCA
16796 T A A TCTTGAAGAGGTCTTCCCGTGCCGGACCACTGCCCTGCAGGCA
GACCACGTCCTGCTATCCTCCCTTCCTCCCGTTCCAGTGCCTGCAGGGCAGTGGTCCGGC[GA]CGGGAAGACCTCTTCAAGAACAAGGATCACTTCCAGTT
16796 IS [GA] CACCAACCTCTTCCTGTGCGGG NOD1

FIGURE 129E



CSF1R

FIGURE 129E

17431 P	G	S	ATGACGTGGCAGACCGTTAATAAATCAAGTCTCAGGY	
17431 P	A	S	CGCGCCGAGGTGTTAATAAATCAAGTCTCAGGCY	
17431 T	G	S	AGCAGCCTGAGACTTGATTTATTAACGATGAGATTTTACAGGCAAGACACTATTGACAAATGGCAGCAAT	
17431 T	A	S	AGCAGCCTGAGACTTGATTTATTAACAATGAGATTTTACAGGCAAGACACTATTGACAAATGGCAGCAAT	
17431 IS	[GA]		GCATCTGTATCTTAACTGTAATAACTACATATTGAGCAGCCTGAGACTTGATTTATTAAC[GA]ATGAGATTTTACAGGCAAGACACTATTGACAAATGGCAGCA ATTTTCGGCACCCCAGATC	
17446 I		A	CCATGTCAGAGCTATTGTCCATCATGGGTTTCCTCTACC	
17446 P	T	A	CGCGCCGAGGTTAAAGCTAAAGCATCACAGY	
17446 P	G	A	ATGACGTGGCAGACGTAAAGCTAAAGCATCACAGY	
17446 T	T	A	TCTGCTGTGATGCTTTAGCTTTAAGTAGAGGAAACCCATGATGGACAATAGCTCTGACATGGAC	
17446 T	G	A	TCTGCTGTGATGCTTTAGCTTTACGTAGAGGAAACCCATGATGGACAATAGCTCTGACATGGAC	
17446 IS	[TG]		CCATTCAATACAGGAGGGTAGTCCATGTCAGAGCTATTGTCCATCATGGGTTTCCTCTAC[TG]TAAAGCTAAAGCATCACAGCAGATATTGCCATGAGCCTT GAACTTATCTGAGCATCTCTT	
17463 I		A	TGGCGTTTTCTGGGGTATCCAGGTTCTCCTT	
17463 P	A	A	CGCGCCGAGGAACTCCCTCACTTCAACTY	
17463 P	G	A	ATGACGTGGCAGACGACTCCCTCACTTCAACTY	
17463 T	A	A	AGGGAGTTGAAGTGAGGGAGTTAGGAGAACCTGGATACCCCAGAAAACGCCAGC	
17463 T	G	A	AGGGAGTTGAAGTGAGGGAGTCAGGAGAACCTGGATACCCCAGAAAACGCCAGC	
17463 IS	[AG]		CTGGGCTGCCAGGGTGGGCTACATTGGAGCTGGCGTTTTCTGGGGTATCCAGGTTCTCCT[AG]ACTCCCTCACTTCAACTCCCTTGTTTTGCTCTAATCTTC CTCCCTGTCCCGTCACACCTT	
17468 I		A	TGACCCTGGGCAAAATTGAATCTAAGTTTTCTAGGATTTCTCTCCT	
17468 P	C	A	ATGACGTGGCAGACCAACTCTTTGGGATTCTGAY	
17468 P	A	A	CGCGCCGAGGAAACTCTTTGGGATTCTGACY	
17468 T	C	A	TCATGTCAGAATCCCAAAGAGTTGGGAGAGAAATCCTAGAAAACTTAGATTCAATTTTGCCCAGGGTCACC	
17468 T	A	A	TCATGTCAGAATCCCAAAGAGTTTGGAGAGAAATCCTAGAAAACTTAGATTCAATTTTGCCCAGGGTCACC	
17468 IS	[CA]		TGAGATTTTCAAAGGTGACCCTGGGCAAAATTGAATCTAAGTTTTCTAGGATTTCTCTCC[CA]AACTCTTTGGGATTCTGACATGACAGTGCAATTGCTTTAG TCCAAAAATGTCCTGGTAAG	
17528 I		S	GTCGAGAAAAGTGATAGTTATTTGCTCAAGCCACAAAACTGAACAAAAATGT	
17528 P	T	S	CGCGCCGAGGACATCTATATATGCTATGGCAGY	
17528 P	C	S	ATGACGTGGCAGACGCATCTATATATGCTATGGCAY	
17528 T	T	S	TTCTCTGCCATAGCATATATAGATGTCATTTTTGTTCAGTTTTGTGGCTTGAGCAAATAACTATCACTTTTCTCGACAG	
17528 T	C	S	TTCTCTGCCATAGCATATATAGATGCCATTTTTGTTCAGTTTTGTGGCTTGAGCAAATAACTATCACTTTTCTCGACAG	
17528 IS	[TC]		AATTTCATAGGATCAGTCCCCATATTTTCTTTAACTTCTCTGCCATAGCATATATAGATG[TC]CATTTTTGTTCAGTTTTGTGGCTTGAGCAAATAACTATCACT TTTCTCGACAGTATTGAG	
17530 I		A	GTGGGGCTCCTCCTTCTGTTTCCCAGACA	
17530 P	T	A	CGCGCCGAGGTGAGAGCCGCGCY	
17530 P	C	A	ATGACGTGGCAGACCGAGAGCCGCGCY	
17530 T	T	A	GCCGGCGCGGCTCTCAGTCTGGGAAACAGAAGGAGGAGCCCCACTG	
17530 T	C	A	GCCGGCGCGGCTCTCGGTCTGGGAAACAGAAGGAGGAGCCCCACTG	
17530 IS	[TC]		CGGGCGGGGCGAGGCCCTGGACGGCGGCGGCAGTGGGGCTCCTCCTTCTGTTTCCCAGAC[TC]GAGAGCCGCGCCGGCACCATGTCAGCTTACCCTAAA AGCTACAATCCGTTCGACGACGAC	
17533 I		A	CAGGACTCCTTCCACAAGCCCCGGAAT	
17533 P	G	A	ATGACGTGGCAGACGGACCTGCTGCCTY	
17533 P	C	A	CGCGCCGAGGCGACCTGCTGCCTY	
17533 T	G	A	AGACAGGCAGCAGGTCCTTCCGGGGCTTGTGGAAGGAGTCCTGGC	
17533 T	C	A	AGACAGGCAGCAGGTCGTTCCGGGGCTTGTGGAAGGAGTCCTGGC	
17533 IS	[GC]		GAGCAGAATCTGGCCCCCCTGAAAATGCATAAGCCAGGACTCCTTCCACAAGCCCCGGAA[GC]GACCTGCTGCCTGTCTGCCTCTGTGCTGGGCTCTGGG GACACAGAGATGAGCAGGACACT	
17555 I		A	CTGGTCAATCAATGCAAAGTAGTGGGAATTGGCCTCT	
17555 P	A	A	CGCGCCGAGGATCTGGCATCACCCAY	
17555 P	G	A	ATGACGTGGCAGACGTCTGGCATCACCCAY	
17555 T	A	A	AGGCTGGGTGATGCCAGATGAGGCCAATTCCCACTACTTTGCATTGATTGACCAGCT	
17555 T	G	A	AGGCTGGGTGATGCCAGACGAGGCCAATTCCCACTACTTTGCATTGATTGACCAGCT	
17555 IS	[AG]		CAGCCACTGGTGTCCTTCGATGAGCTGGTCAATCAATGCAAAGTAGTGGGAATTGGCCTC[AG]TCTGGCATCACCCAGCCTCCTGTCGCAATCTCCAGCTG CCCGTTTCCCACCAGCCTATAG	
17627 I		S	CGTACTCACCCAGGCTAGACCCTCCGTACC	
17627 P	A	S	CGCGCCGAGGTCACCCAGGCTAGACY	
17627 P	T	S	ATGACGTGGCAGACACACCCAGGCTAGACY	
17627 T	A	S	GAGGGTCTAGCCTGGGTGAGTACGGAGGGTCTAGCCTGGGTGAGTACGGA	
17627 T	T	S	GAGGGTCTAGCCTGGGTGTGTACGGAGGGTCTAGCCTGGGTGAGTACGGA	
17627 IS	[AT]		CTAGCCTGGGTGTGTACGGAGGGTCTAGCCTGGGTGAGTACGGAGGGTCTAGCCTGGGTG[AT]GTACGGAGGGTCTAGCCTGGGTGAGTACGGAGGGTC TAGCCTGGGTGAGTATGGAGGGTC	
17629 I		A	ACCTTGTAGGAGCTGGTGGTGTCTGTCGAA	
17629 P	T	A	CGCGCCGAGGTTGACTGAGTGCTGGAY	
17629 P	C	A	ATGACGTGGCAGACCTGACTGAGTGCTGGAY	
17629 T	T	A	CAGCTCCAGCACTCAGTCAATCGACAGACACCACCAGCTCCTACAAGGTTC	
17629 T	C	A	CAGCTCCAGCACTCAGTCAGTCGACAGACACCACCAGCTCCTACAAGGTTC	
17629 IS	[TC]		ATAAGGTCCTCTTCTCGTTGACATTGTGTGAACCTTGTAGGAGCTGGTGGTGTCTGTCGA[TC]TGACTGAGTGCTGGAGCTGGCAGCCCTGTGCAGGCTGC CACCTTTGCCCCTTTACTGTGC	
17657 I		A	CACAAAGAGACTTAATGGCAGAAGCCAGACTAGACCCA	
17657 P	C	A	ATGACGTGGCAGACCTCATCAGCAATGTGGCY	
17657 P	T	A	CGCGCCGAGGTTCATCAGCAATGTGGCY	
17657 T	C	A	GGGAGCCACATTGCTGATGAGGGGTCTAGTCTGGCTTCTGCCATTAAGTCTCTTTGTGAC	
17657 T	T	A	GGGAGCCACATTGCTGATGAAGGGTCTAGTCTGGCTTCTGCCATTAAGTCTCTTTGTGAC	
17657 IS	[CT]		TTGGTAAGTCACTTGCCCAAGGTCACAAAGAGACTTAATGGCAGAAGCCAGACTAGACCC[CT]TCATCAGCAATGTGGCTCCCCTAGCTTGGGGTCTTGGA AGACCCATGTGGAGGAAAGGAC	
17708 I		S	GGTCTCTCCTCCCAGCCCTCTTCCCAGT	
17708 P	T	S	CGCGCCGAGGAAGGAGGAGGACCTACTY	
17708 P	C	S	ATGACGTGGCAGACGAGGAGGAGGACCTACTY	
17708 T	T	S	AGCAAGTAGGTCCTCCTCCTTCTGGGAAGAGGGCTGGGAGGAGAGACCAG	
17708 T	C	S	AGCAAGTAGGTCCTCCTCCTCCTGGGAAGAGGGCTGGGAGGAGAGACCAG	
17708 IS	[TC]		AACTTAAGGGTCTGGCTTCTCGCCATCATCCTAGGTAGGCAGCAAGTAGGTCCTCCTCCT[TC]CTGGGAAGAGGGCTGGGAGGAGAGACCAGGCAGTGAT CTGATAGTGACCAAGACCTCCGG	
17716 I		A	AGAGCGGCCGGAAAGACTCTATAACCCAGTTT	
17716 P	G	A	ATGACGTGGCAGACGTGGGAAGAACTCCAAGY	
17716 P	C	A	CGCGCCGAGGCTGGGAAGAACTCCAAGY	
17716 T	G	A	CCAGCTTGGAGTTCTTCCCACAACTGGGTTATAGAGTCTTTCCGGCCGCTCTCC	
17716 T	C	A	CCAGCTTGGAGTTCTTCCCAGAACTGGGTTATAGAGTCTTTCCGGCCGCTCTCC	
17716 IS	[GC]		TGCTTTACTTGGGATGAGGCAGGTGGCGGAGAGCGGCCGGAAAGACTCTATAACCCAGTT[GC]TGGGAAGAACTCCAAGCTGGGAGTCAGTCACACTGAC TCTACCACTTACTAGCTGTGTAA	
17720 I		S	CTTCTGCCTCCCTCCGACAACCTTTTTCCCT	
17720 P	T	S	CGCGCCGAGGATCCGTAGCCTTAAATTCCY	
17720 P	C	S	ATGACGTGGCAGACGTCCGTAGCCTTAAATTCCY	
17720 T	T	S	CTCGGGAATTTAAGGCTACGGATGGGAAAAAGGTTGTCGGAGGGAGGCAGAAGGG	
17720 T	C	S	CTCGGGAATTTAAGGCTACGGACGGGAAAAAGGTTGTCGGAGGGAGGCAGAAGGG	
17720 IS	[TC]		CTCATCCCTCCAATCAACACTACGATCCGCCCGGGCAGCTCGGGAATTTAAGGCTACGGA[TC]GGGAAAAAGGTTGTCGGAGGGAGGCAGAAGGGACTGG GTTAAATTAAGCAGGAGGGGCAA	
17732 I		A	CGTGGCCCCACATAGCCTGCCCT	
17732 P	A	A	CGCGCCGAGGAACATCTCTTGCCTGCY	

FSTL3

FIGURE 129E

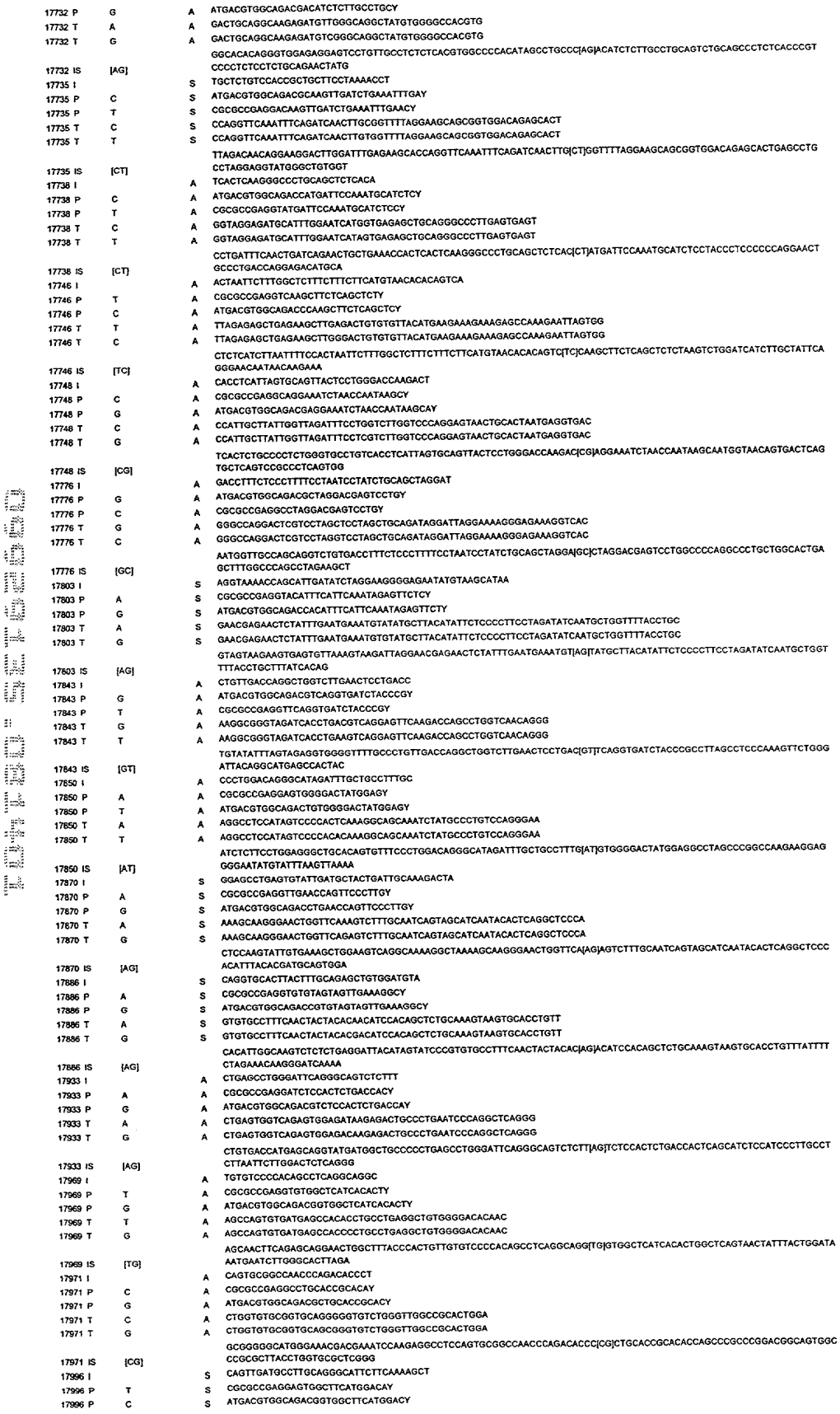

17732 P G A ATGACGTGGCAGACGACATCTCTTGCCTGCY
17732 T A A GACTGCAGGCAAGAGATGTTGGGCAGGCTATGTGGGGCCACGTG
17732 T G A GACTGCAGGCAAGAGATGTCGGGCAGGCTATGTGGGGCCACGTG
17732 IS [AG] GGCACACAGGGTGGAGAGGAGTCCTGTTGCCTCTCTCACGTGGCCCCACATAGCCTGCCC[AG]ACATCTCTTGCCTGCAGTCTGCAGCCCTCTCACCCGT CCCCTCTCCTCTGCAGAACTATG
17735 I S TGCTCTGTCCACCGCTGCTTCCTAAAACCT
17735 P C S ATGACGTGGCAGACGCAAGTTGATCTGAAATTTGAY
17735 P T S CGCGCCGAGGACAAGTTGATCTGAAATTTGAACY
17735 T C S CCAGGTTCAAATTTCAGATCAACTTGCGGTTTTAGGAAGCAGCGGTGGACAGAGCACT
17735 T T S CCAGGTTCAAATTTCAGATCAACTTGTGGTTTTAGGAAGCAGCGGTGGACAGAGCACT
17735 IS [CT] TTAGACAACAGGAAGGACTTGGATTTGAGAAGCACCAGGTTCAAATTTCAGATCAACTTG[CT]GGTTTTAGGAAGCAGCGGTGGACAGAGCACTGAGCCTG CCTAGGAGGTATGGGCTGTGGT
17738 I A TCACTCAAGGGCCCTGCAGCTCTCACA
17738 P C A ATGACGTGGCAGACCATGATTCCAAATGCATCTCY
17738 P T A CGCGCCGAGGTATGATTCCAAATGCATCTCCY
17738 T C A GGTAGGAGATGCATTTGGAATCATGGTGAGAGCTGCAGGGCCCTTGAGTGAGT
17738 T T A GGTAGGAGATGCATTTGGAATCATAGTGAGAGCTGCAGGGCCCTTGAGTGAGT
17738 IS [CT] CCTGATTTCAACTGATCAGAACTGCTGAAACCACTCACTCAAGGGCCCTGCAGCTCTCAC[CT]ATGATTCCAAATGCATCTCCTACCCTCCCCCCAGGAACT GCCCTGACCAGGAGACATGCA
17746 I A ACTAATTCTTTGGCTCTTTCTTTCTTCATGTAACACACAGTCA
17746 P T A CGCGCCGAGGTCAAGCTTCTCAGCTCTY
17746 P C A ATGACGTGGCAGACCCAAGCTTCTCAGCTCY
17746 T T A TTAGAGAGCTGAGAAGCTTGAGACTGTGTGTTACATGAAGAAAGAAAGAGCCAAAGAATTAGTGG
17746 T C A TTAGAGAGCTGAGAAGCTTGGGACTGTGTGTTACATGAAGAAAGAAAGAGCCAAAGAATTAGTGG
17746 IS [TC] CTCTCATCTTAATTTTCCACTAATTCTTTGGCTCTTTCTTTCTTCATGTAACACACAGTC[TC]CAAGCTTCTCAGCTCTCTAAGTCTGGATCATCTTGCTATTCA GGGAACAATAACAAGAAA
17748 I A CACCTCATTAGTGCAGTTACTCCTGGGACCAAGACT
17748 P C A CGCGCCGAGGCAGGAAATCTAACCAATAAGCY
17748 P G A ATGACGTGGCAGACGAGGAAATCTAACCAATAAGCAY
17748 T C A CCATTGCTTATTGGTTAGATTTCCTGGTCTTGGTCCCAGGAGTAACTGCACTAATGAGGTGAC
17748 T G A CCATTGCTTATTGGTTAGATTTCCTCGTCTTGGTCCCAGGAGTAACTGCACTAATGAGGTGAC
17748 IS [CG] TCACTCTGCCCCTCTGGGTGCCTGTCACCTCATTAGTGCAGTTACTCCTGGGACCAAGAC[CG]AGGAAATCTAACCAATAAGCAATGGTAACAGTGACTCAG TGCTCAGTCCGCCCTCAGTGG
17776 I A GACCTTTCTCCCTTTTCCTAATCCTATCTGCAGCTAGGAT
17776 P G A ATGACGTGGCAGACGCTAGGACGAGTCCTGY
17776 P C A CGCGCCGAGGCCTAGGACGAGTCCTGY
17776 T G A GGGCCAGGACTCGTCCTAGCTCCTAGCTGCAGATAGGATTAGGAAAAGGGAGAAAGGTCAC
17776 T C A GGGCCAGGACTCGTCCTAGGTCCTAGCTGCAGATAGGATTAGGAAAAGGGAGAAAGGTCAC
17776 IS [GC] AATGGTTGCCAGCAGGTCTGTGACCTTTCTCCCTTTTCCTAATCCTATCTGCAGCTAGGA[GC]CTAGGACGAGTCCTGGCCCCAGGCCCTGCTGGCACTGA GCTTTGGCCCAGCCTAGAAGCT
17803 I S AGGTAAAACCAGCATTGATATCTAGGAAGGGGAGAATATGTAAGCATAA
17803 P A S CGCGCCGAGGTACATTTCATTCAAATAGAGTTCTCY
17803 P G S ATGACGTGGCAGACCACATTTCATTCAAATAGAGTTCTY
17803 T A S GAACGAGAACTCTATTTGAATGAAATGTATATGCTTACATATTCTCCCCTTCCTAGATATCAATGCTGGTTTTACCTGC
17803 T G S GAACGAGAACTCTATTTGAATGAAATGTGTATGCTTACATATTCTCCCCTTCCTAGATATCAATGCTGGTTTTACCTGC
17803 IS [AG] GTAGTAAGAAGTGAGTGTTAAAGTAAGATTAGGAACGAGAACTCTATTTGAATGAAATGT[AG]TATGCTTACATATTCTCCCCTTCCTAGATATCAATGCTGGT TTTACCTGCTTTATCACAG
17843 I A CTGTTGACCAGGCTGGTCTTGAACTCCTGACC
17843 P G A ATGACGTGGCAGACGTCAGGTGATCTACCCGY
17843 P T A CGCGCCGAGGTTCAGGTGATCTACCCGY
17843 T G A AAGGCGGGTAGATCACCTGACGTCAGGAGTTCAAGACCAGCCTGGTCAACAGGG
17843 T T A AAGGCGGGTAGATCACCTGAAGTCAGGAGTTCAAGACCAGCCTGGTCAACAGGG
17843 IS [GT] TGTATATTTAGTAGAGGTGGGGTTTTGCCCTGTTGACCAGGCTGGTCTTGAACTCCTGAC[GT]TCAGGTGATCTACCCGCCTTAGCCTCCCAAAGTTCTGGG ATTACAGGCATGAGCCACTAC
17850 I A CCCTGGACAGGGCATAGATTTGCTGCCTTTGC
17850 P A A CGCGCCGAGGAGTGGGGACTATGGAGY
17850 P T A ATGACGTGGCAGACTGTGGGGACTATGGAGY
17850 T A A AGGCCTCCATAGTCCCCACTCAAAGGCAGCAAATCTATGCCCTGTCCAGGGAA
17850 T T A AGGCCTCCATAGTCCCCACACAAAGGCAGCAAATCTATGCCCTGTCCAGGGAA
17850 IS [AT] ATCTCTTCCTGGAGGGCTGCACAGTGTTTCCCTGGACAGGGCATAGATTTGCTGCCTTTG[AT]GTGGGGACTATGGAGGCCTAGCCCGGCCAAGAAGGAG GGGAATATGTATTTAAGTTAAAA
17870 I S GGAGCCTGAGTGTATTGATGCTACTGATTGCAAAGACTA
17870 P A S CGCGCCGAGGTTGAACCAGTTCCCTTGY
17870 P G S ATGACGTGGCAGACCTGAACCAGTTCCCTTGY
17870 T A S AAAGCAAGGGAACTGGTTCAAAGTCTTTGCAATCAGTAGCATCAATACACTCAGGCTCCCA
17870 T G S AAAGCAAGGGAACTGGTTCAGAGTCTTTGCAATCAGTAGCATCAATACACTCAGGCTCCCA
17870 IS [AG] CTCCAAGTATTGTGAAAGCTGGAAGTCAGGCAAAAGGCTAAAAGCAAGGGAACTGGTTCA[AG]AGTCTTTGCAATCAGTAGCATCAATACACTCAGGCTCCC ACATTTACACGATGCAGTGGA
17886 I S CAGGTGCACTTACTTTGCAGAGCTGTGGATGTA
17886 P A S CGCGCCGAGGTGTGTAGTAGTTGAAAGGCY
17886 P G S ATGACGTGGCAGACCGTGTAGTAGTTGAAAGGCY
17886 T A S GTGTGCCTTTCAACTACTACACAACATCCACAGCTCTGCAAAGTAAGTGCACCTGTT
17886 T G S GTGTGCCTTTCAACTACTACACGACATCCACAGCTCTGCAAAGTAAGTGCACCTGTT
17886 IS [AG] CACATTGGCAAGTCTCTCTGAGGATTACATAGTATCCCGTGTGCCTTTCAACTACTACAC[AG]ACATCCACAGCTCTGCAAAGTAAGTGCACCTGTTTATTTT CTAGAAACAAGGGATCAAAA
17933 I A CTGAGCCTGGGATTCAGGGCAGTCTCTTT
17933 P A A CGCGCCGAGGATCTCCACTCTGACCACY
17933 P G A ATGACGTGGCAGACGTCTCCACTCTGACCAY
17933 T A A CTGAGTGGTCAGAGTGGAGATAAGAGACTGCCCTGAATCCCAGGCTCAGGG
17933 T G A CTGAGTGGTCAGAGTGGAGACAAGAGACTGCCCTGAATCCCAGGCTCAGGG
17933 IS [AG] CTGTGACCATGAGCAGGTATGATGGCTGCCCCCTGAGCCTGGGATTCAGGGCAGTCTCTT[AG]TCTCCACTCTGACCACTCAGCATCTCCATCCCTTGCCT CTTAATTCTTGGACTCTCAGGG
17969 I A TGTGTCCCCACAGCCTCAGGCAGGC
17969 P T A CGCGCCGAGGTGTGGCTCATCACACTY
17969 P G A ATGACGTGGCAGACGGTGGCTCATCACACTY
17969 T T A AGCCAGTGTGATGAGCCACACCTGCCTGAGGCTGTGGGGACACAAC
17969 T G A AGCCAGTGTGATGAGCCACCCCTGCCTGAGGCTGTGGGGACACAAC
17969 IS [TG] AGCAACTTCAGAGCAGGAACTGGCTTTACCCACTGTTGTGTCCCCACAGCCTCAGGCAGG[TG]GTGGCTCATCACACTGGCTCAGTAACTATTTACTGGATA AATGAATCTTGGGCACTTAGA
17971 I A CAGTGCGGCCAACCCAGACACCCT
17971 P C A CGCGCCGAGGCCTGCACCGCACAY
17971 P G A ATGACGTGGCAGACGCTGCACCGCACY
17971 T C A CTGGTGTGCGGTGCAGGGGGTGTCTGGGTTGGCCGCACTGGA
17971 T G A CTGGTGTGCGGTGCAGCGGGTGTCTGGGTTGGCCGCACTGGA
17971 IS [CG] GCGGGGGCATGGGAAACGACGAAATCCAAGAGGCCTCCAGTGCGGCCAACCCAGACACCC[CG]CTGCACCGCACACCAGCCCGCCCGGACGGCAGTGGC CCGCGCTTACCTGGTGCGCTCGGG
17996 I S CAGTTGATGCCTTGCAGGGCATTCTTCAAAAGCT
17996 P T S CGCGCCGAGGAGTGGCTTCATGGACAY
17996 P C S ATGACGTGGCAGACGGTGGCTTCATGGACY

FIGURE 129E

17996 T	T	S	GAGCTGTCCATGAAGCCACTGCTTTTGAAGAATGCCCTGCAAGGCATCAACTGGA	
17996 T	C	S	GAGCTGTCCATGAAGCCACCGCTTTTGAAGAATGCCCTGCAAGGCATCAACTGGA	
17996 IS	[TC]		TGAGCCAGGGGCACAGACAGGCTGTCTGCACAAGAGAGAATGAGCTGTCCATGAAGCCAC[TC]GCTTTTGAAGAATGCCCTGCAAGGCATCAACTGGAATG TGTTTATTACCAAACAAGACAG	
18001 I		S	CCCTCTCCATTCAGGGAAACCACTGTGCTTTA	
18001 P	G	S	ATGACGTGGCAGACCTTGTGCTGCCCCTY	
18001 P	A	S	CGCGCCGAGGTTTGTGCTGCCCCTY	
18001 T	G	S	AGGGAGGGGCAGCACAAGAAAGCACAGTGGTTTCCCTGAATGGAGAGGGGA	
18001 T	A	S	AGGGAGGGGCAGCACAAAAAAGCACAGTGGTTTCCCTGAATGGAGAGGGGA	
18001 IS	[GA]		TTTCCTAGTTTTCTGGCTGGCAGCGATTTTTGGACAGCAGTGTAGGGAGGGGCAGCACAA[GA]AAAGCACAGTGGTTTCCCTGAATGGAGAGGGGAGATAG AGTGGGCGCGCGAGAGAGCTAT	
18027 I		S	GTGCCCGGAGGAAGGGATGGGGT	
18027 P	C	S	ATGACGTGGCAGACGAGCACACGTGTATGTGY	
18027 P	T	S	CGCGCCGAGGAAGCACACGTGTATGTGY	
18027 T	C	S	GAGACACATACACGTGTGCTCCCCCATCCCTTCCTCCGGGCACCA	
18027 T	T	S	GAGACACATACACGTGTGCTTCCCCATCCCTTCCTCCGGGCACCA	
18027 IS	[CT]		AGCGAGTGGTCAGCAATCACTGTTTGCTGTGAGTGACAATGAGACACATACACGTGTGCT[CT]CCCCATCCCTTCCTCCGGGCACCATCTCTCTCCTGGGA CCTGCCTGTCTGCGGCACCCTG	
18029 I		S	GCCTGGCCAACATGATGAAACCCCATCTCTACTAAAAATACAAAAAATTAT	
18029 P	C	S	ATGACGTGGCAGACGCTGGGTGTGGTGGY	
18029 P	G	S	CGCGCCGAGGCCTGGGTGTGGTGGY	
18029 T	C	S	CGTGCCACCACACCCAGCTAATTTTTTGTATTTTTAGTAGAGATGGGGTTTCATCATGTTGGCCAGGCTG	
18029 T	G	S	CGTGCCACCACACCCAGGTAATTTTTTGTATTTTTAGTAGAGATGGGGTTTCATCATGTTGGCCAGGCTG	
18029 IS	[CG]		GATTCTCCTGCCTCAGCCTCCTGAATAGCTGGGATTATAGGAACGTGCCACCACACCCAG[CG]TAATTTTTTGTATTTTTAGTAGAGATGGGGTTTCATCATG TTGGCCAGGCTGGTCTCAAA	FLJ10713
18038 I		S	ACCTGTTCCCTACACTGCCCGTCCCT	
18038 P	C	S	ATGACGTGGCAGACGCTGTGGGTCTAACCTY	
18038 P	T	S	CGCGCCGAGGACTGTGGGTCTAACCTCY	
18038 T	C	S	GGCAGAGGTTAGACCCACAGCGGGACGGGCAGTGTAGGGAACAGGTGG	
18038 T	T	S	GGCAGAGGTTAGACCCACAGTGGGACGGGCAGTGTAGGGAACAGGTGG	
18038 IS	[CT]		GGGAAGCGGGGAGCGGGGAGCGGGGCCAGGGAGGGAGAGAGGCAGAGGTTAGACCCACAG[CT]GGGACGGGCAGTGTAGGGAACAGGTGGACACTCC CCTCTCTGATGAGTATTTCTTTATTC	
18080 I		S	TCTGAATTTTTATGGAGTACATTCCTCTAAGGACTAGGTAATTAGATTAAGAA	
18080 P	G	S	ATGACGTGGCAGACCAGATGGAGGCAAGCY	
18080 P	A	S	CGCGCCGAGGTAGATGGAGGCAAGCGY	
18080 T	G	S	GAAGCGCTTGCCTCCATCTGTCTTAATCTAATTACCTAGTCCTTAGAGGAATGTACTCCATAAAAATTCAGAGA	
18080 T	A	S	GAAGCGCTTGCCTCCATCTATCTTAATCTAATTACCTAGTCCTTAGAGGAATGTACTCCATAAAAATTCAGAGA	
18080 IS	[GA]		CATTACCCCTCCACTCAACCTGACATGGCCCTATGGGAATGGAAGCGCTTGCCTCCATCT[GA]TCTTAATCTAATTACCTAGTCCTTAGAGGAATGTACTCCA TAAAAATTCAGAGATGTTTA	
18084 I		S	GCTATTCTTGAACTAAAGGTCTACTATGTAGTCAATTATGGTGATGTTTTTAGA	
18084 P	A	S	CGCGCCGAGGTTTCTGAAGTCTGCTGTCY	
18084 P	G	S	ATGACGTGGCAGACCTTCTGAAGTCTGCTGTCY	
18084 T	A	S	TGGAGACAGCAGACTTCAGAAACTAAAAACATCACCATAATTGACTACATAGTAGACCTTTAGTTCAAGAATAGCTT	
18084 T	G	S	TGGAGACAGCAGACTTCAGAAGCTAAAAACATCACCATAATTGACTACATAGTAGACCTTTAGTTCAAGAATAGCTT	
18084 IS	[AG]		ATATTTTACAGTAGGGAGAAAATGCTTATCTCTCTATTTTGGAGACAGCAGACTTCAGAA[AG]CTAAAAACATCACCATAATTGACTACATAGTAGACCTTTAG TTCAAGAATAGCTTAAAGA	
18103 I		A	AGAGAAACACAAACTCTTGCACTGCCAAATAAATCCTAACGTCTAAA	
18103 P	C	A	ATGACGTGGCAGACCATCAGCAATCTCTTCAACAY	
18103 P	T	A	CGCGCCGAGGTATCAGCAATCTCTTCAACATAAY	
18103 T	C	A	ATGTTTATGTTGAAGAGATTGCTGATGTTAGACGTTAGGATTTATTTGGCAGTGCAAGAGTTTGTGTTTCTCTTT	
18103 T	T	A	ATGTTTATGTTGAAGAGATTGCTGATATTAGACGTTAGGATTTATTTGGCAGTGCAAGAGTTTGTGTTTCTCTTT	
18103 IS	[CT]		AGATCCTCAAAGAAAGAGAAACACAAACTCTTGCACTGCCAAATAAATCCTAACGTCTAA[CT]ATCAGCAATCTCTTCAACATAAACATGTAACATTCAGTAAA ACCCAGAGAGTGTCAAGAC	
18158 I		A	CAGGCCGGGCCCATCCCCTT	
18158 P	G	A	ATGACGTGGCAGACGAGGACAGTGCCCTGY	
18158 P	C	A	CGCGCCGAGGCAGGACAGTGCCCTY	
18158 T	G	A	GGCCCAGGGCACTGTCCTCAGGGGATGGGCCCGGCCTGGG	
18158 T	C	A	GGCCCAGGGCACTGTCCTGAGGGGATGGGCCCGGCCTGGG	
18158 IS	[GC]		CAGGCTCACCAGCCTGCTGGGGAGCAAGCCGCTGTGCTTCCCAGGCCGGGCCCATCCCCT[GC]AGGACAGTGCCCTGGGCCAGGCACCTGTTCACATGC AGGGCATCTGGGTCTAGCCTGCAG	
18168 I		S	CCGATGGCTTCGCTGTACCAGAGGTTCACA	
18168 P	G	S	ATGACGTGGCAGACCGGCAAGATCAACACCY	
18168 P	A	S	CGCGCCGAGGTGGCAAGATCAACACCTY	
18168 T	G	S	CTCGAGGTGTTGATCTTGCCGGTGAACCTCTGGTACAGCGAAGCCATCGGGC	
18168 T	A	S	CTCGAGGTGTTGATCTTGCCAGTGAACCTCTGGTACAGCGAAGCCATCGGGC	
18168 IS	[GA]		GCCCAGGAGGTGACTCGCCTCCGGGGGCGCGGGGAAGGACCTCGAGGTGTTGATCTTGCC[GA]GTGAACCTCTGGTACAGCGAAGCCATCGGGCACCGC GCTCCTGCTGGCTGTCTTTGGGGC	
18185 I		A	CATTCAGCTGGAGGCGGCGGCTA	
18185 P	T	A	CGCGCCGAGGTCCTGGTGCGCGY	
18185 P	C	A	ATGACGTGGCAGACCCCTGGTGCGCGY	
18185 T	T	A	TGGGCGCGCACCAGGAAGCCGCCGCCTCCAGCTGAATGCG	
18185 T	C	A	TGGGCGCGCACCAGGGAGCCGCCGCCTCCAGCTGAATGCG	
18185 IS	[TC]		CGTGCCCGCCCCTGCCCCACCCCGCGCCGCGGGACTCGCGCATTCAGCTGGAGGCGGCGGCT[TC]CCTGGTGCGCGCCCAGCCCTGGTGCCCTGCTCTGG CCCTCGCTCCGCACCACCGCCCCGC	
18245 I		S	TCTGCTCTGGCTCCTGGGAGCCCT	
18245 P	C	S	ATGACGTGGCAGACGGTGCGGTGCCTY	
18245 P	T	S	CGCGCCGAGGAGTGCGGTGCCTCY	
18245 T	C	S	CTTGGAGGCACCGCACCGGGGCTCCCAGGAGCCAGAGCAGAAG	
18245 T	T	S	CTTGGAGGCACCGCACTGGGCTCCCAGGAGCCAGAGCAGAAG	
18245 IS	[CT]		GGTGCTTGGGAGCATCTTTCAGCAGAGGGTCCAGGTGTTCTGTGCTTGGAGGCACCGCAC[CT]GGGCTCCCAGGAGCCAGAGCAGAAGAGGCTGAGCGA GGGGTCCAGGCTGGCATGGACCTC	SLC27A4
18375 I		A	AGGCTGACCATGTAGCTCAGCATGTCTTCATCTTT	
18375 P	C	A	CGCGCCGAGGCGTCAGTGATCAGGGCY	
18375 P	G	A	ATGACGTGGCAGACGGTCAGTGATCAGGGCY	
18375 T	C	A	GTCAGCCCTGATCACTGACGAAGATGAAGACATGCTGAGCTACATGGTCAGCCTGG	
18375 T	G	A	GTCAGCCCTGATCACTGACCAAGATGAAGACATGCTGAGCTACATGGTCAGCCTGG	
18375 IS	[CG]		GCCTCAGTCTTCCTGGCCTCACCTCCAGGCTGACCATGTAGCTCAGCATGTCTTCATCTT[CG]GTCAGTGATCAGGGCTGACATCTGGGGGTGGTTTGCAA TCTGATTTAGGTCAAAGAGACT	
18384 I		A	GGTGTGGTGGGACACACCTGCAGCA	
18384 P	C	A	ATGACGTGGCAGACCCCAGCTACTCAGGAGY	
18384 P	T	A	CGCGCCGAGGTCCAGCTACTCAGGAGY	
18384 T	C	A	CAGCCTCCTGAGTAGCTGGGGCTGCAGGTGTGTCCCACCACACCTG	
18384 T	T	A	CAGCCTCCTGAGTAGCTGGAGCTGCAGGTGTGTCCCACCACACCTG	
18384 IS	[CT]		AGACCTCATCTCTACAAAAAATTTAAAAATTAGCCAGGTGTGGTGGGACACACCTGCAGC[CT]CCAGCTACTCAGGAGGCTGAGGAGGTAGGATCACTTGA GCCCAGGAGGATGAGGCTGCAG	
18402 I		S	ACAAAAATTCTACTTGTCTAAAGTGCTGCAAGGTGTACTAA	
18402 P	A	S	CGCGCCGAGGTGGCACAGTTCTCTCTTY	
18402 P	G	S	ATGACGTGGCAGACCGGCACAGTTCTCTCTY	
18402 T	A	S	TAGCAAGAGAGAACTGTGCCATAGTACACCTTGCAGCACTTTAGACAAGTAGAATTTTTGTTT	

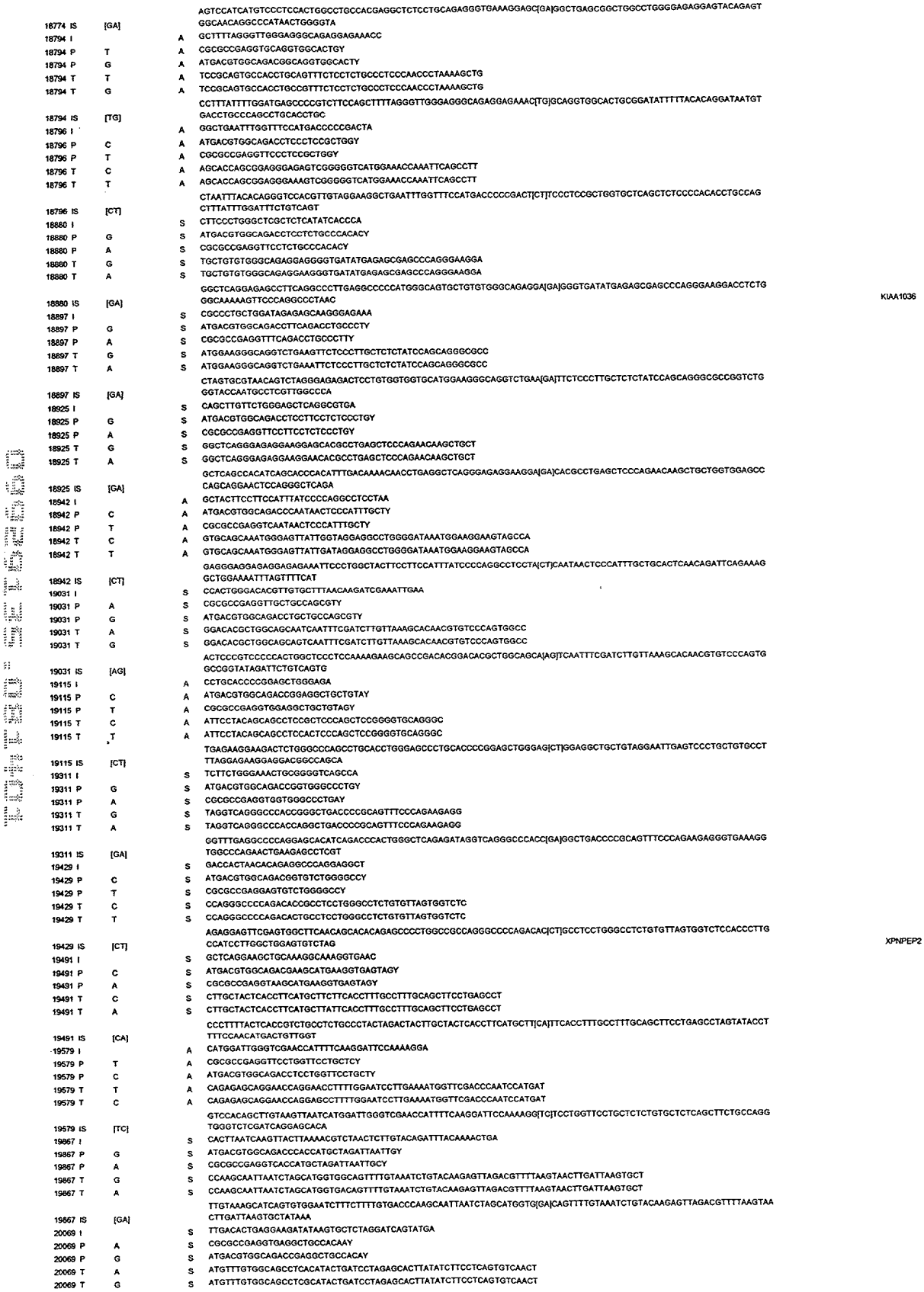
Atty Docket No.: 10020.0001.PCUS.00

FIGURE 129E

18402 T	G	S	TAGCAAGAGAGAACTGTGCCGTAGTACACCTTGCAGCACTTTAGACAAGTAGAATTTTTGTTT
18402 IS	[AG]		GAAACTCTTTTGATCCAAATTGGTATAGGTATCTCAACACTAGCAAGAGAGAACTGTGCC[AG]TAGTACACCTTGCAGCACTTTAGACAAGTAGAATTTTTGT TTAAAGGTGTCCATGGGCAA
18417 I		A	CAGTGGTGCCGTCTCTTCTCATCTCTACTGCTGT
18417 P	A	A	CGCGCCGAGGACTCTCACTCTGGAAACCY
18417 P	G	A	ATGACGTGGCAGACGCTCTCACTCTGGAAACY
18417 T	A	A	TGCAGGTTTCCAGAGTGAGAGTCAGCAGTAGAGATGAGAAGAGACGGCACCACTGAG
18417 T	G	A	TGCAGGTTTCCAGAGTGAGAGCCAGCAGTAGAGATGAGAAGAGACGGCACCACTGAG
18417 IS	[AG]		GCAGGGAGTTTCCAGGACTCCAGCCCTCAGTGGTGCCGTCTCTTCTCATCTCTACTGCTG[AG]CTCTCACTCTGGAAACCTGCAGACAGCCCAGGGGAATG GCTGTGGCCAGGATAGCTGCCA
18473 I		A	CTGCCATGTACTAAATATGCTCAACTGATTCCAACTACTTTAGCATATACTACTA
18473 P	C	A	ATGACGTGGCAGACCGAGCACATGACAGTCY
18473 P	T	A	CGCGCCGAGGTGAGCACATGACAGTCTY
18473 T	C	A	CAAAAGACTGTCATGTGCTCGAGTAGTATATGCTAAAGTAGTTGGAATCAGTTGAGCATATTTAGTACATGGCAGGA
18473 T	T	A	CAAAAGACTGTCATGTGCTCAAGTAGTATATGCTAAAGTAGTTGGAATCAGTTGAGCATATTTAGTACATGGCAGGA
18473 IS	[CT]		CTGTTCCTGCCATGTACTAAATATGCTCAACTGATTCCAACTACTTTAGCATATACTACT[CT]GAGCACATGACAGTCTTTTGCTGAGGTGCTTTGGCATTCTT TCTAAAAGATAGATGGGTG
18581 I		A	GGAAAAGCAGCAGAGATAGTACTGGAACCCAAGTCAT
18581 P	G	A	ATGACGTGGCAGACGCCTGGTGAAAGAGTCY
18581 P	A	A	CGCGCCGAGGACCTGGTGAAAGAGTCAY
18581 T	G	A	ATGTTGACTCTTTCACCAGGCTGACTTGGGTTCCAGTACTATCTCTGCTGCTTTTCCAA
18581 T	A	A	ATGTTGACTCTTTCACCAGGTTGACTTGGGTTCCAGTACTATCTCTGCTGCTTTTCCAA
18581 IS	[GA]		TGAGCGACTTCAGGATACGCGATTGGAAAAGCAGCAGAGATAGTACTGGAACCCAAGTCA[GA]CCTGGTGAAAGAGTCAACATACAGCCCATTGCTTTCAGT CCCTTTTTCCCTCTCCATGAG
18583 I		S	ACGCCCCCGGCGGACACCT
18583 P	C	S	ATGACGTGGCAGACGAGGCTGCAGGAAGTY
18583 P	T	S	CGCGCCGAGGAAGGCTGCAGGAAGTY
18583 T	C	S	CCCCACTTCCTGCAGCCTCGGTGTCCGCCGGGGGCGTGT
18583 T	T	S	CCCCACTTCCTGCAGCCTTGGTGTCCGCCGGGGGCGTGT
18583 IS	[CT]		TCTCTACGCTTGCAAGGGTTCCCCAAGTCCCTGGCCACTGCTCCCCACTTCCTGCAGCCT[CT]GGTGTCCGCCGGGGGCGTGTGTGAGGGGCGGGGCCG CATGGGGAGGAGGGATTTAAAAAA
18630 I		S	GCGCTCCTAGCGGTCTCCCGGT
18630 P	G	S	CGCGCCGAGGCCCCTGCCGCCY
18630 P	C	S	ATGACGTGGCAGACGCCCTGCCGCCY
18630 T	G	S	GCAGGGCGGCAGGGGCCGGGAGACCGCTAGGAGCGCCC
18630 T	C	S	GCAGGGCGGCAGGGCCCGGGAGACCGCTAGGAGCGCCC
18630 IS	[GC]		GCTGGGGAGAGCCCAGGCAAGCAGCATAGAGCGGCGGGACATAGTGGCAGGGCGGCAGGG[GC]CCGGGAGACCGCTAGGAGCGCCCGGTGGAGGGGC CGCCTTTATCTGCTGGGGGATTCCAG
18645 I		S	AAGTATGCTGTGTATTCCTGCTGTGATGTGCTCCTC
18645 P	A	S	CGCGCCGAGGTCGGTTCTCATCAGATCAY
18645 P	T	S	ATGACGTGGCAGACACGGTTCTCATCAGATCAY
18645 T	A	S	GGGATGATCTGATGAGAACCGAAGGAGCACATCACAGCAGGAATACACAGCATACTTGT
18645 T	T	S	GGGATGATCTGATGAGAACCGTAGGAGCACATCACAGCAGGAATACACAGCATACTTGT
18645 IS	[AT]		GTGGTTAGATTTTCACTAAGTTCTGTGCAGTTTACATTTGGGATGATCTGATGAGAACCG[AT]AGGAGCACATCACAGCAGGAATACACAGCATACTTGTTGT GAGTTCCCTTGAAGAGGACA
18649 I		A	GGCCTTCACTGCAGCCCCATCTCCTA
18649 P	C	A	ATGACGTGGCAGACCCTCCTCCCCCAGAY
18649 P	T	A	CGCGCCGAGGTCTCCTCCCCCAGACY
18649 T	C	A	AGGGGTCTGGGGGAGGAGGAGGAGATGGGGCTGCAGTGAAGGCCTT
18649 T	T	A	AGGGGTCTGGGGGAGGAGAAGGAGATGGGGCTGCAGTGAAGGCCTT
18649 IS	[CT]		CCTGCCTGGCCTCCCACACCCCCTGCAATGAGCAAGGCCTTCACTGCAGCCCCATCTCCT[CT]CTCCTCCCCCAGACCCCTCCCAGCCCTCTCCTCCTGTT CCTCCTGTAGCATCTTTGCTGG
18692 I		S	GAGGAAAGTGATCAGCAAGAGTGTGGTCCCCT
18692 P	T	S	CGCGCCGAGGAGGGCTGGCCACY
18692 P	G	S	ATGACGTGGCAGACCGGGCTGGCCACY
18692 T	T	S	CCTGGTGGCCAGCCCTGGGGACCACACTCTTGCTGATCACTTTCCTCCA
18692 T	G	S	CCTGGTGGCCAGCCCGGGGGACCACACTCTTGCTGATCACTTTCCTCCA
18692 IS	[TG]		GTGTTCAGATTCCGGTGTCCGCAGGGCAGGGATGCTCACGGCCTTCCTGGTGGCCAGCCC[TG]GGGGACCACACTCTTGCTGATCACTTTCCTCCATGAC CCGGTCCACTTCCTGCCGGAGGG
18699 I		S	CTGCGTTGCTCCTGCCATCTCGGGC
18699 P	A	S	CGCGCCGAGGTCTGCCTCTTGGTGGY
18699 P	C	S	ATGACGTGGCAGACGCTGCCTCTTGGTGY
18699 T	A	S	CTCGCCACCAAGAGGCAGACCCGAGATGGCAGGAGCAACGCAGGA
18699 T	C	S	CTCGCCACCAAGAGGCAGCCCCGAGATGGCAGGAGCAACGCAGGA
18699 IS	[AC]		TTCTAGAACTGGTGGGAGAGAACAGGAGATGTTGCACAAGCACTCGCCACCAAGAGGCAG[AC]CCCGAGATGGCAGGAGCAACGCAGGAGGCTCAGCAG GAACAGACCAGGTCAAAGGAGAAA
18705 I		A	CACTCATTCCTCTCCTCACTCACTCATTCCTCTCCTCT
18705 P	G	A	ATGACGTGGCAGACGCTCACTCATTCCTCTCY
18705 P	A	A	CGCGCCGAGGACTCACTCATTCCTCTCCY
18705 T	G	A	GCGAGGAGAGGAATGAGTGAGCGAGGAGAGGAATGAGTGAGTGAGGAGAGGAATGAGTGAG
18705 T	A	A	GCGAGGAGAGGAATGAGTGAGTGAGGAGAGGAATGAGTGAGTGAGGAGAGGAATGAGTGAG
18705 IS	[GA]		ACTCACTCATTCCTCTCCTCACTCACTCATTCCTCTCCTCACTCACTCATTCCTCTCCTC[GA]CTCACTCATTCCTCTCCTCGCTCACTCATTCCTCTCCTCGC TCACTCATTCCTCTCCTCG
18728 I		S	GAGACAGGCAGCAGGTGCTTGGGGT
18728 P	T	S	CGCGCCGAGGAGCACTGTGCCCTGY
18728 P	C	S	ATGACGTGGCAGACGGCACTGTGCCCTY
18728 T	T	S	TGTGCAGGGCACAGTGCTCCCCAAGCACCTGCTGCCTGTCTCCA
18728 T	C	S	TGTGCAGGGCACAGTGCCCCCCAAGCACCTGCTGCCTGTCTCCA
18728 IS	[TC]		GCACATCACAGCCACCCAGACTACAGATGTAGGAACCTACTTCTGTGCAGGGCACAGTGC[TC]CCCCAAGCACCTGCTGCCTGTCTCCAAATCTTGCCCTG GGTCTTCAGGAGCAGATCATCC
18759 I		A	AGAGCAGGGGGACTCGGCCATGTC
18759 P	A	A	CGCGCCGAGGATCTCTGTGCCAGCAY
18759 P	T	A	ATGACGTGGCAGACTTCTCTGTGCCAGCAY
18759 T	A	A	AAGCTGCTGGCACAGAGATACATGGCCGAGTCCCCCTGCTCTGT
18759 T	T	A	AAGCTGCTGGCACAGAGAAACATGGCCGAGTCCCCCTGCTCTGT
18759 IS	[AT]		CTAAGGGATCTTTCTCCACCTTGGAGATCCAGCGGCACAGAGCAGGGGGACTCGGCCATGT[AT]TCTCTGTGCCAGCAGCTTAGCCACAGCATGGCACAGTC GCCTCCTTCCTGCTCACAAACC
18773 I		S	GGCCGTGGTTTTTTTGCTTCACCACCCTT
18773 P	C	S	ATGACGTGGCAGACGAGGTGCGTCCTGGY
18773 P	G	S	CGCGCCGAGGCAGGTGCGTCCTGGY
18773 T	C	S	GTCCCCAGGACGCACCTCAGGGTGGTGAAGCAAAAAAACCACGGCCCA
18773 T	G	S	GTCCCCAGGACGCACCTGAGGGTGGTGAAGCAAAAAAACCACGGCCCA
18773 IS	[CG]		GCCCACCGCCCTGGCCAGGTTGCTGGGAAGGAGCCTTTTGCTTGTCCCCAGGACGCACCT[CG]AGGGTGGTGAAGCAAAAAAACCACGGCCCAGGAGAG GGTGTTTGCTGTGGTCTCAGTGCC
18774 I		S	CCCAGGCCAGCCGCTCAGCCA
18774 P	G	S	ATGACGTGGCAGACCGCTCCTTTCACCCTY
18774 P	A	S	CGCGCCGAGGTGCTCCTTTCACCCTCY
18774 T	G	S	TGCAGAGGGTGAAAGGAGCGGGCTGAGCGGCTGGCCTGGGGA
18774 T	A	S	TGCAGAGGGTGAAAGGAGCAGGCTGAGCGGCTGGCCTGGGGA

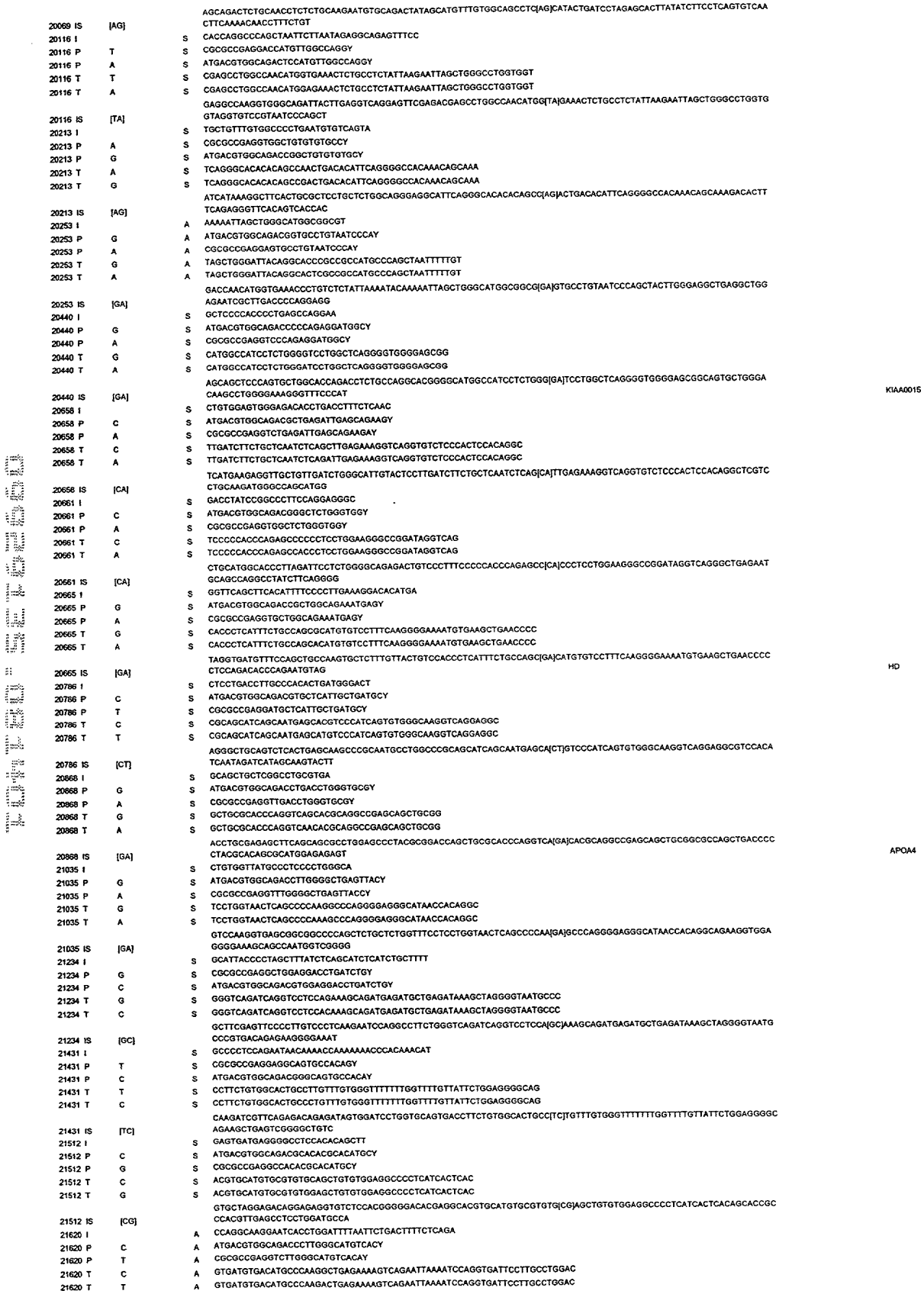
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FIGURE 129E



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FIGURE 129E



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APOA4

FIGURE 129E

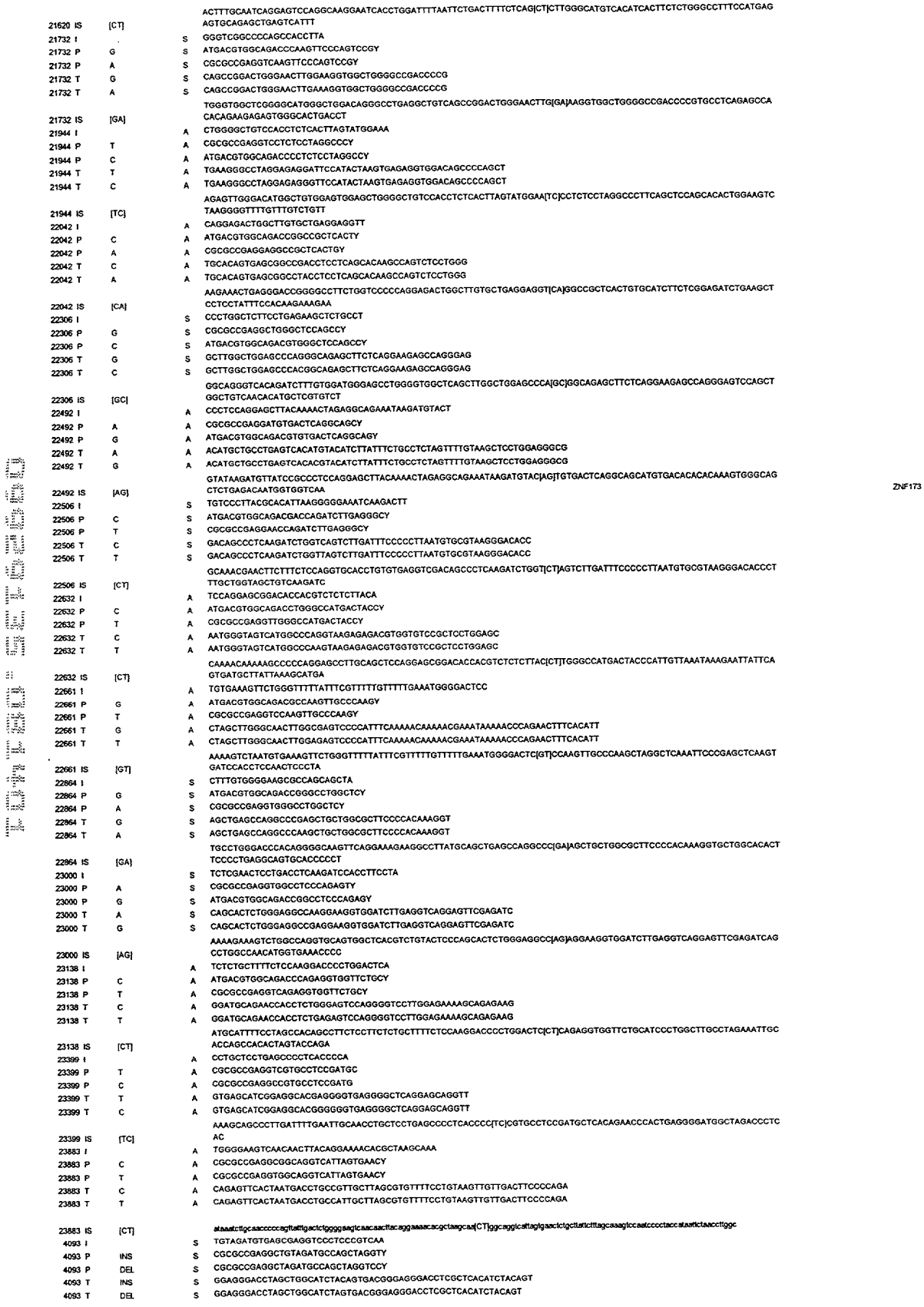
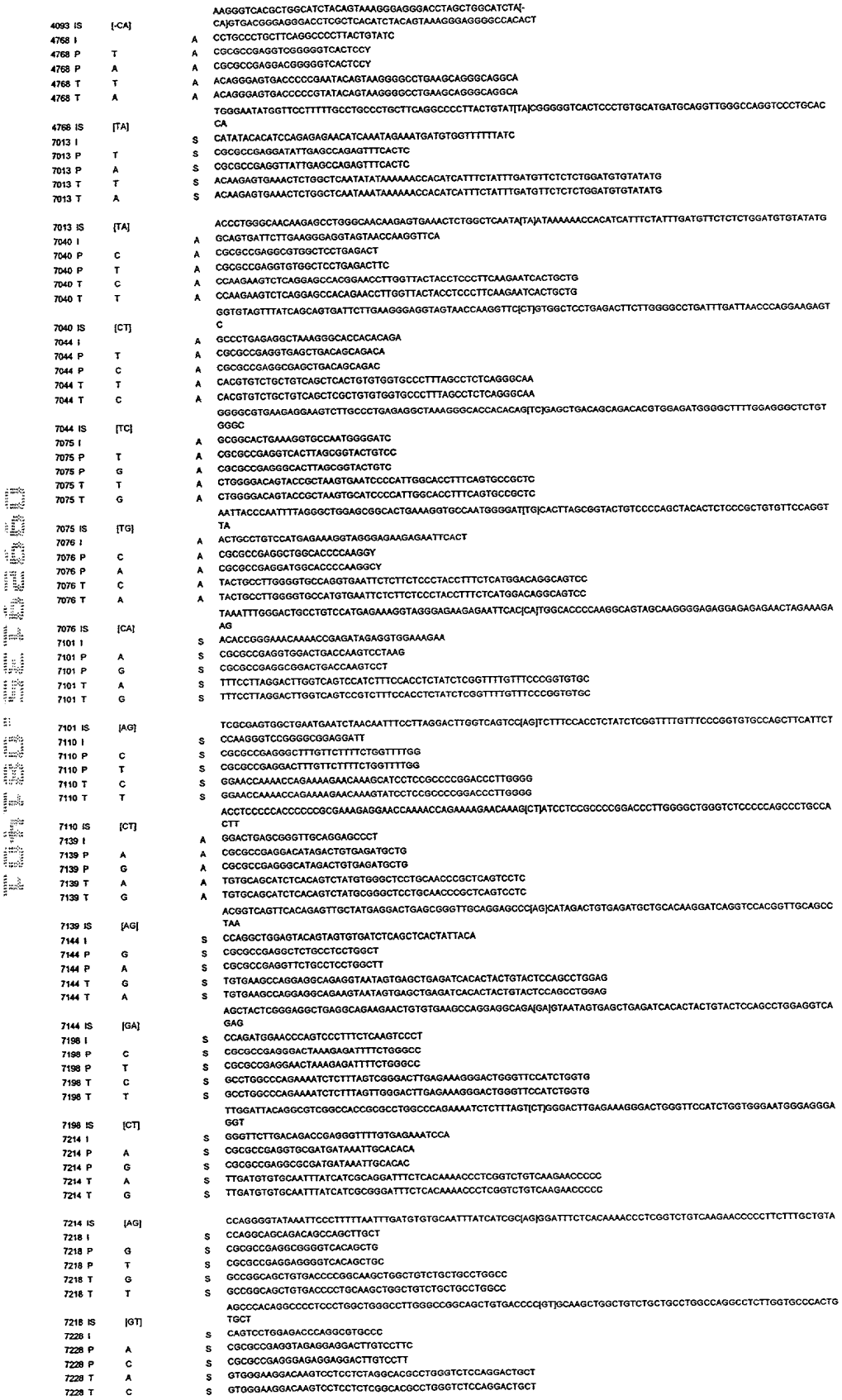
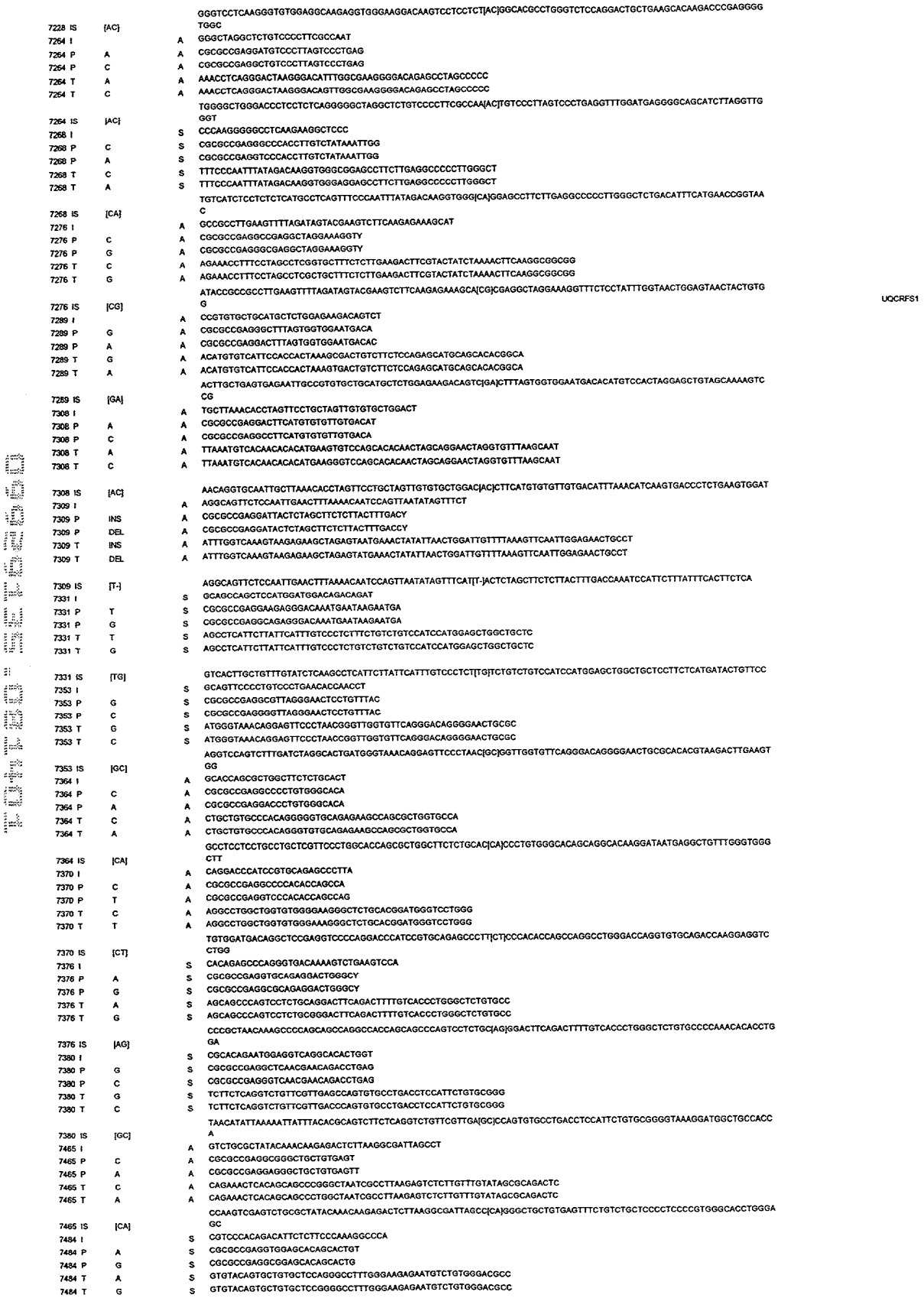

ACTTTGCAATCAGGAGTCCAGGCAAGGAATCACCTGGATTTTAATTCTGACTTTTCTCAG[CT]CTTGGGCATGTCACATCACTTCTCTGGGCCTTTCCATGAG
21620 IS [CT] AGTGCAGAGCTGAGTCATTT
21732 I S GGGTCGGCCCCAGCCACCTTA
21732 P G S ATGACGTGGCAGACCCAAGTTCCCAGTCCGY
21732 P A S CGCGCCGAGGTCAAGTTCCCAGTCCGY
21732 T G S CAGCCGGACTGGGAACTTGGAAGGTGGCTGGGGCCGACCCCG
21732 T A S CAGCCGGACTGGGAACTTGAAAGGTGGCTGGGGCCGACCCCG
TGGGTGGCTCGGGGCATGGGCTGGACAGGGCCTGAGGCTGTCAGCCGGACTGGGAACTTG[GA]AAGGTGGCTGGGGCCGACCCCGTGCCTCAGAGCCA
21732 IS [GA] CACAGAAGAGAGTGGGCACTGACCT
21944 I A CTGGGGCTGTCCACCTCTCACTTAGTATGGAAA
21944 P T A CGCGCCGAGGTCCTCTCCTAGGCCCY
21944 P C A ATGACGTGGCAGACCCCTCTCCTAGGCCY
21944 T T A TGAAGGGCCTAGGAGAGGATTCCATACTAAGTGAGAGGTGGACAGCCCCAGCT
21944 T C A TGAAGGGCCTAGGAGAGGGTTCCATACTAAGTGAGAGGTGGACAGCCCCAGCT
AGAGTTGGGACATGGCTGTGGAGTGGAGCTGGGGCTGTCCACCTCTCACTTAGTATGGAA[TC]CCTCTCCTAGGCCCTTCAGCTCCAGCACACTGGAAGTC
21944 IS [TC] TAAGGGGTTTTGTTTGTCTGTT
22042 I A CAGGAGACTGGCTTGTGCTGAGGAGGTT
22042 P C A ATGACGTGGCAGACCGGCCGCTCACTY
22042 P A A CGCGCCGAGGAGGCCGCTCACTGY
22042 T C A TGCACAGTGAGCGGCCGACCTCCTCAGCACAAGCCAGTCTCCTGGG
22042 T A A TGCACAGTGAGCGGCCTACCTCCTCAGCACAAGCCAGTCTCCTGGG
AAGAAACTGAGGGACCGGGGCCTTCTGGTCCCCCAGGAGACTGGCTTGTGCTGAGGAGGT[CA]GGCCGCTCACTGTGCATCTTCTCGGAGATCTGAAGCT
22042 IS [CA] CCTCCTATTTCCACAAGAAAGAA
22306 I S CCCTGGCTCTTCCTGAGAAGCTCTGCCT
22306 P G S CGCGCCGAGGCTGGGCTCCAGCCY
22306 P C S ATGACGTGGCAGACGTGGGCTCCAGCCY
22306 T G S GCTTGGCTGGAGCCCAGGGCAGAGCTTCTCAGGAAGAGCCAGGGAG
22306 T C S GCTTGGCTGGAGCCCACGGCAGAGCTTCTCAGGAAGAGCCAGGGAG
GGCAGGGTCACAGATCTTTGTGGATGGGAGCCTGGGGTGGCTCAGCTTGGCTGGAGCCCA[GC]GGCAGAGCTTCTCAGGAAGAGCCAGGGAGTCCAGCT
22306 IS [GC] GGCTGTCAACACATGCTCGTGTCT
22492 I A CCCTCCAGGAGCTTACAAAACTAGAGGCAGAAATAAGATGTACT
22492 P A A CGCGCCGAGGATGTGACTCAGGCAGCY
22492 P G A ATGACGTGGCAGACGTGTGACTCAGGCAGY
22492 T A A ACATGCTGCCTGAGTCACATGTACATCTTATTTCTGCCTCTAGTTTTGTAAGCTCCTGGAGGGCG
22492 T G A ACATGCTGCCTGAGTCACACGTACATCTTATTTCTGCCTCTAGTTTTGTAAGCTCCTGGAGGGCG
GTATAAGATGTTATCCGCCCTCCAGGAGCTTACAAAACTAGAGGCAGAAATAAGATGTAC[AG]TGTGACTCAGGCAGCATGTGACACACACAAAGTGGGCAG
22492 IS [AG] CTCTGAGACAATGGTGGTCAA
22506 I S TGTCCCTTACGCACATTAAGGGGGAAATCAAGACTT
22506 P C S ATGACGTGGCAGACGACCAGATCTTGAGGGCY
22506 P T S CGCGCCGAGGAACCAGATCTTGAGGGCY
22506 T C S GACAGCCCTCAAGATCTGGTCAGTCTTGATTTCCCCCTTAATGTGCGTAAGGGACACC
22506 T T S GACAGCCCTCAAGATCTGGTTAGTCTTGATTTCCCCCTTAATGTGCGTAAGGGACACC
GCAAACGAACTTCTTTCTCCAGGTGCACCTGTGTGAGGTCGACAGCCCTCAAGATCTGGT[CT]AGTCTTGATTTCCCCCTTAATGTGCGTAAGGGACACCCT
22506 IS [CT] TTGCTGGTAGCTGTCAAGATC
22632 I A TCCAGGAGCGGACACCACGTCTCTCTTACA
22632 P C A ATGACGTGGCAGACCTGGGCCATGACTACCY
22632 P T A CGCGCCGAGGTTGGGCCATGACTACCY
22632 T C A AATGGGTAGTCATGGCCCAGGTAAGAGAGACGTGGTGTCCGCTCCTGGAGC
22632 T T A AATGGGTAGTCATGGCCCAAGTAAGAGAGACGTGGTGTCCGCTCCTGGAGC
CAAAACAAAAAGCCCCCAGGAGCCTTGCAGCTCCAGGAGCGGACACCACGTCTCTCTTAC[CT]TGGGCCATGACTACCCATTGTTAAATAAAGAATTATTCA
22632 IS [CT] GTGATGCTTATTAAAGCATGA
22661 I A TGTGAAAGTTCTGGGTTTTTATTTCGTTTTTGTTTTTGAAATGGGGACTCC
22661 P G A ATGACGTGGCAGACGCCAAGTTGCCCAAGY
22661 P T A CGCGCCGAGGTCCAAGTTGCCCAAGY
22661 T G A CTAGCTTGGGCAACTTGGCGAGTCCCCATTTCAAAAACAAAAACGAAATAAAAACCCAGAACTTTCACATT
22661 T T A CTAGCTTGGGCAACTTGGAGAGTCCCCATTTCAAAAACAAAAACGAAATAAAAACCCAGAACTTTCACATT
AAAAGTCTAATGTGAAAGTTCTGGGTTTTTATTTCGTTTTTGTTTTTGAAATGGGGACTC[GT]CCAAGTTGCCCAAGCTAGGCTCAAATTCCCGAGCTCAAGT
22661 IS [GT] GATCCACCTCCAACTCCCTA
22864 I S CTTTGTGGGGAAGCGCCAGCAGCTA
22864 P G S ATGACGTGGCAGACCGGGCCTGGCTCY
22864 P A S CGCGCCGAGGTGGGCCTGGCTCY
22864 T G S AGCTGAGCCAGGCCCGAGCTGCTGGCGCTTCCCCACAAAGGT
22864 T A S AGCTGAGCCAGGCCCAAGCTGCTGGCGCTTCCCCACAAAGGT
TGCCTGGGACCCACAGGGGCAAGTTCAGGAAAGAAGGCCTTATGCAGCTGAGCCAGGCCC[GA]AGCTGCTGGCGCTTCCCCACAAAGGTGCTGGCACACT
22864 IS [GA] TCCCCTGAGGCAGTGCACCCCCT
23000 I S TCTCGAACTCCTGACCTCAAGATCCACCTTCCTA
23000 P A S CGCGCCGAGGTGGCCTCCCAGAGTY
23000 P G S ATGACGTGGCAGACCGGCCTCCCAGAGY
23000 T A S CAGCACTCTGGGAGGCCAAGGAAGGTGGATCTTGAGGTCAGGAGTTCGAGATC
23000 T G S CAGCACTCTGGGAGGCCGAGGAAGGTGGATCTTGAGGTCAGGAGTTCGAGATC
AAAAGAAAGTCTGGCCAGGTGCAGTGGCTCACGTCTGTACTCCCAGCACTCTGGGAGGCC[AG]AGGAAGGTGGATCTTGAGGTCAGGAGTTCGAGATCAG
23000 IS [AG] CCTGGCCAACATGGTGAAACCCC
23138 I A TCTCTGCTTTTCTCCAAGGACCCCTGGACTCA
23138 P C A ATGACGTGGCAGACCCAGAGGTGGTTCTGCY
23138 P T A CGCGCCGAGGTCAGAGGTGGTTCTGCY
23138 T C A GGATGCAGAACCACCTCTGGGAGTCCAGGGGTCCTTGGAGAAAAGCAGAGAAG
23138 T T A GGATGCAGAACCACCTCTGAGAGTCCAGGGGTCCTTGGAGAAAAGCAGAGAAG
ATGCATTTTCCTAGCCACAGCCTTCTCCTTCTCTGCTTTTCTCCAAGGACCCCTGGACTC[CT]CAGAGGTGGTTCTGCATCCCTGGCTTGCCTAGAAATTGC
23138 IS [CT] ACCAGCCACACTAGTACCAGA
23399 I A CCTGCTCCTGAGCCCCTCACCCCA
23399 P T A CGCGCCGAGGTCGTGCCTCCGATGC
23399 P C A CGCGCCGAGGCCGTGCCTCCGATG
23399 T T A GTGAGCATCGGAGGCACGAGGGGTGAGGGGCTCAGGAGCAGGTT
23399 T C A GTGAGCATCGGAGGCACGGGGGGTGAGGGGCTCAGGAGCAGGTT
AAAGCAGCCCTTGATTTTGAATTGCAACCTGCTCCTGAGCCCCTCACCCC[TC]CGTGCCTCCGATGCTCACAGAACCCACTGAGGGGATGGCTAGACCCTC
23399 IS [TC] AC
23883 I A TGGGGAAGTCAACAACTTACAGGAAAACACGCTAAGCAAA
23883 P C A CGCGCCGAGGCGGCAGGTCATTAGTGAACY
23883 P T A CGCGCCGAGGTGGCAGGTCATTAGTGAACY
23883 T C A CAGAGTTCACTAATGACCTGCCGTTGCTTAGCGTGTTTTCCTGTAAGTTGTTGACTTCCCCAGA
23883 T T A CAGAGTTCACTAATGACCTGCCATTGCTTAGCGTGTTTTCCTGTAAGTTGTTGACTTCCCCAGA
atAAATCTgCAACCCCCAGTtATTgACtCTGGGGAAGTCAACAACTACAGGAAAACACGCTAAGCAA[CT]GGCAGGICATTAGTGAACTCTGCTATCTTTAGCAAAGTCCAATCCCCTACCATAATCTAACCTTGGC
4093 I S TGTAGATGTGAGCGAGGTCCCTCCCGTCAA
4093 P INS S CGCGCCGAGGCTGTAGATGCCAGCTAGGTY
4093 P DEL S CGCGCCGAGGCTAGATGCCAGCTAGGTCCY
4093 T INS S GGAGGGACCTAGCTGGCATCTACAGTGACGGGAGGGACCTCGCTCACATCTACAGT
4093 T DEL S GGAGGGACCTAGCTGGCATCTAGTGACGGGAGGGACCTCGCTCACATCTACAGT
ZNF173

FIGURE 129E



Applicant's Docket No. 2000.2.120.1

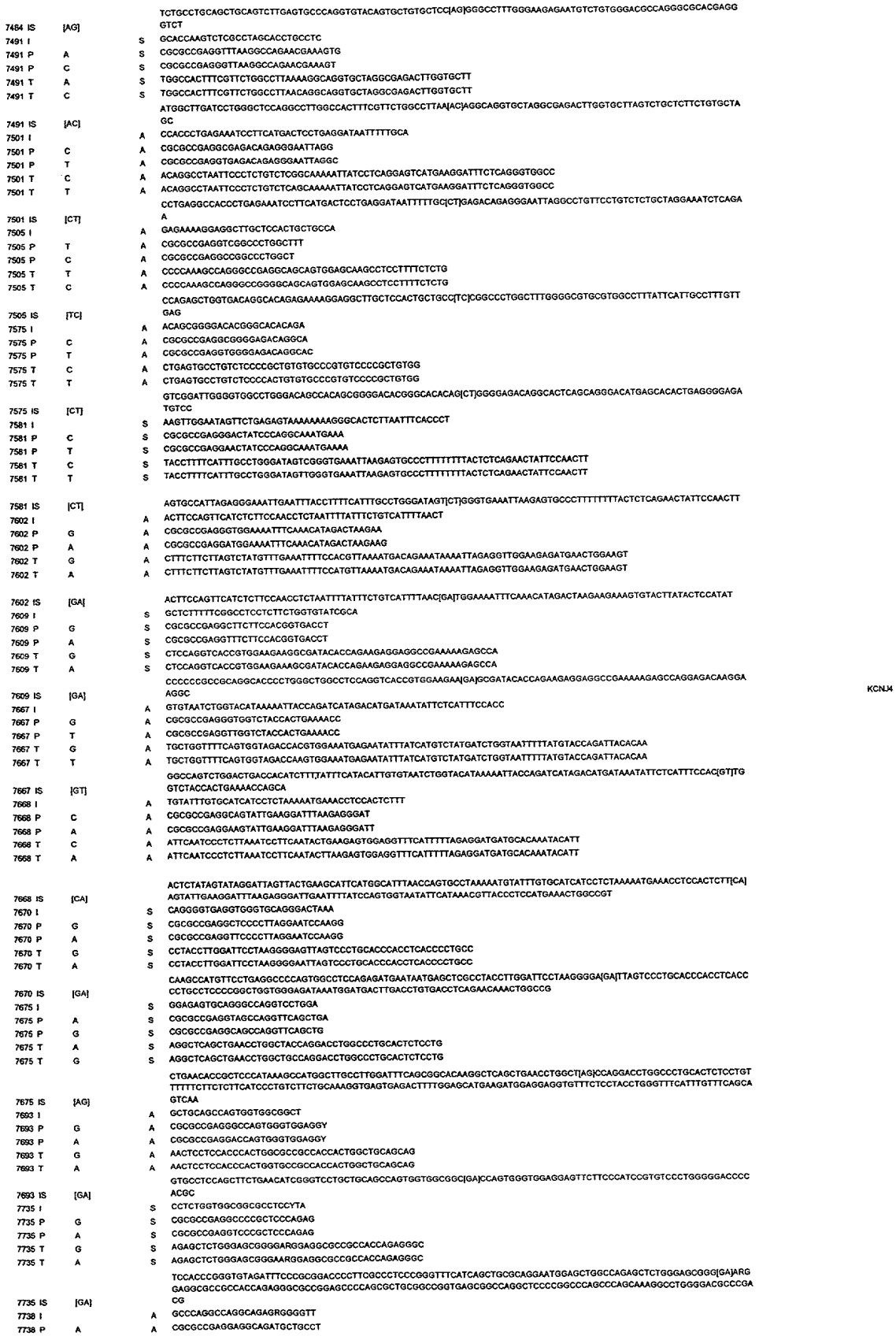
FIGURE 129E



UQCRFS1

UNDER SEAL

FIGURE 129E



KCNJ4

Jan 14, 2010 11:20 AM

FIGURE 129E

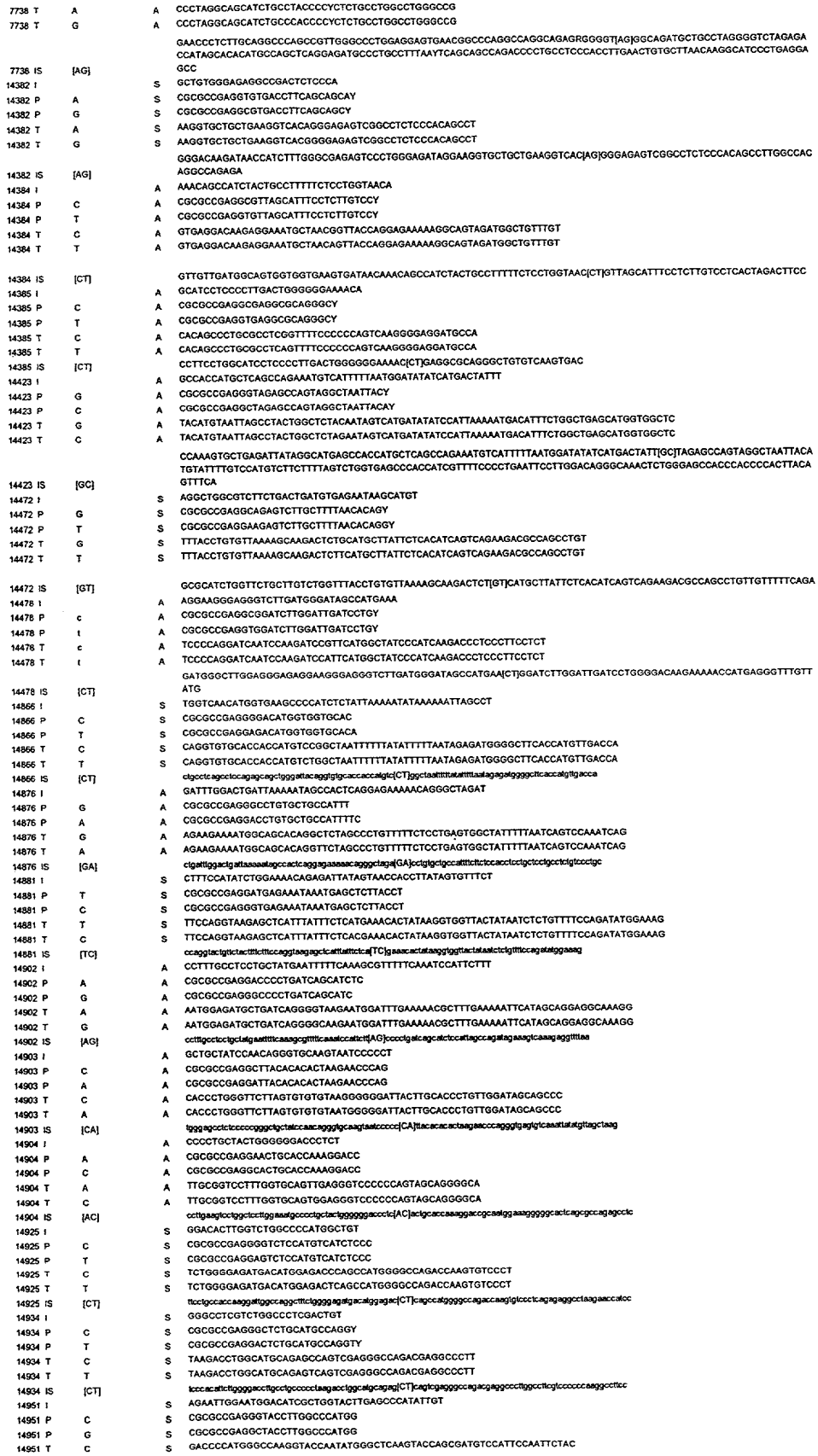
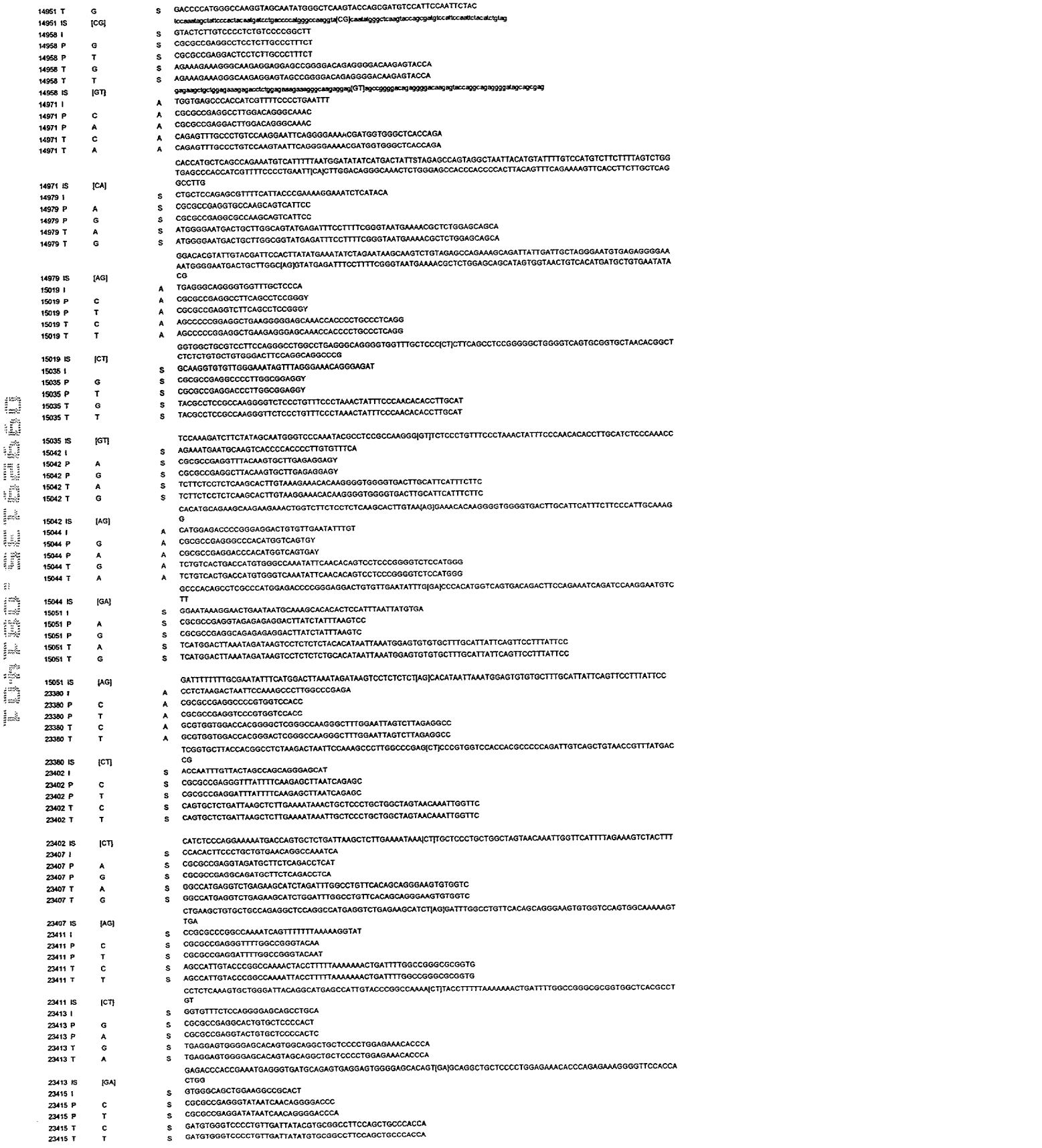


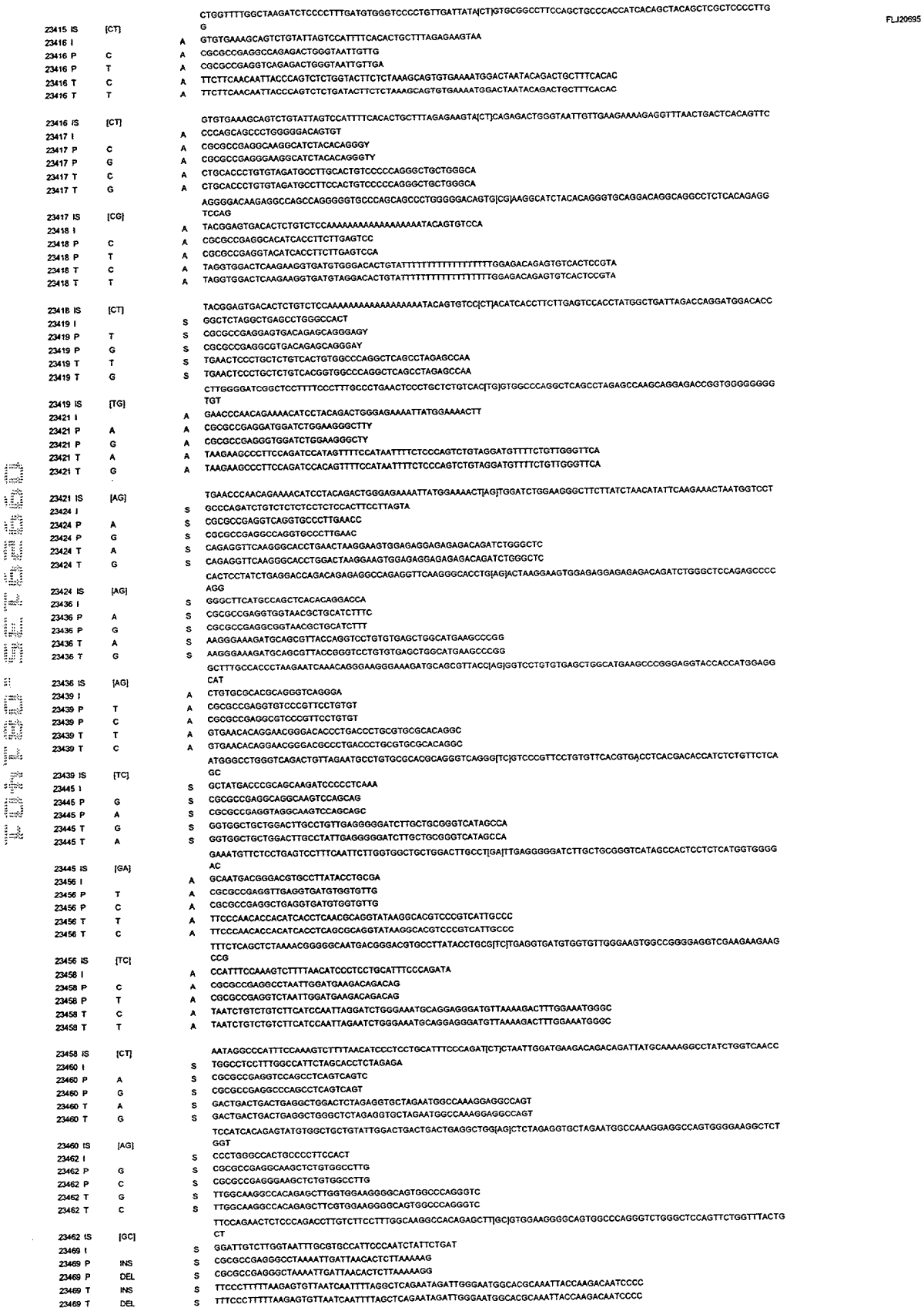
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FIGURE 129E



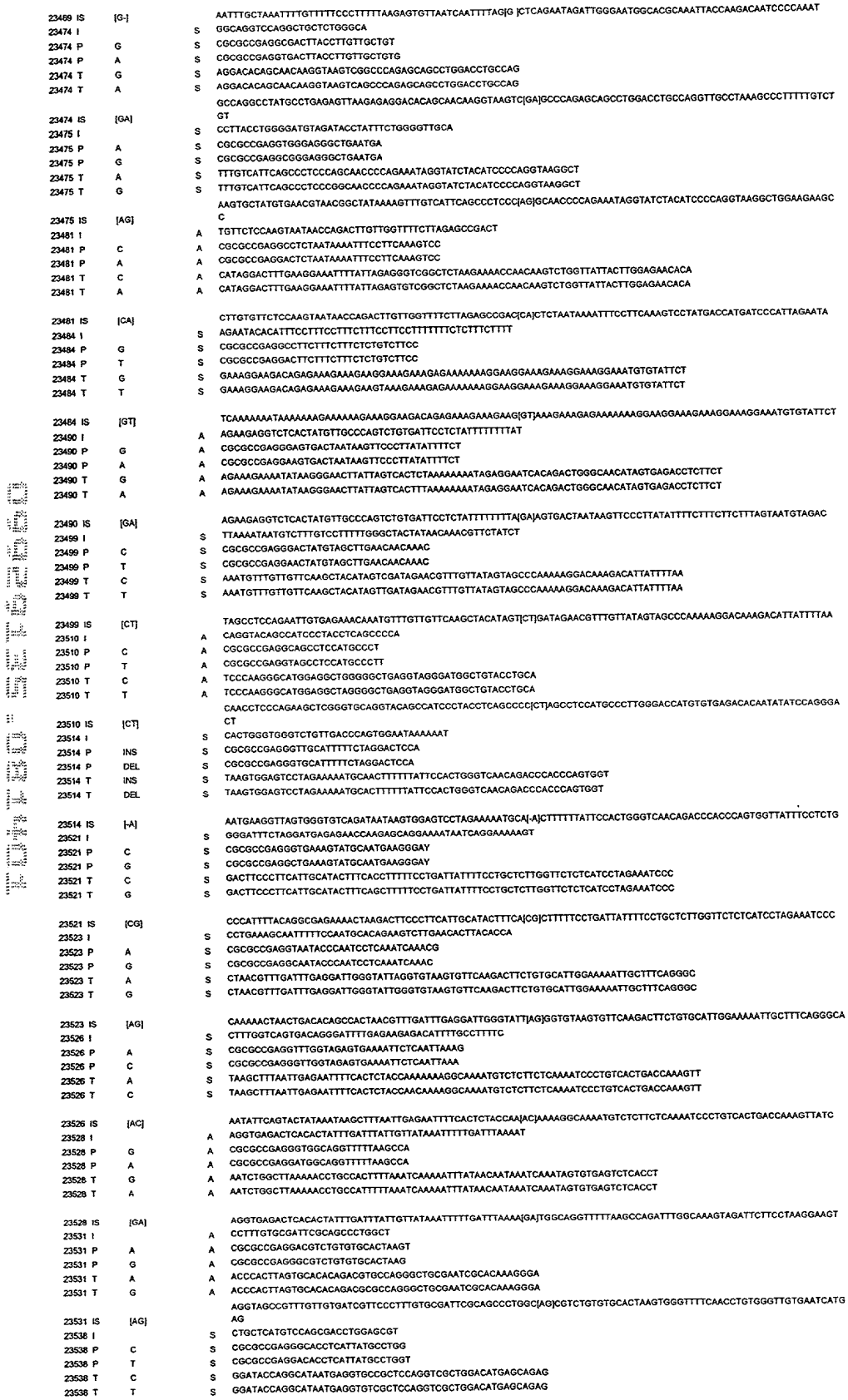
SEQUENCE LISTING

FIGURE 129E



Sequence Listing Page 1 of 1 Application No. 10/501,737 Attorney Docket No. 10191/1830

FIGURE 129E



Confidential Attorney Work Product

FIGURE 129E

			CCCAGCTCAGACCCGAGCCAGGGTCCCAGGATACCAGGCATAATGAGGTG[CT]CGCTCCAGGTCGCTGGACATGAGCAGAGACCCCTAACTTCAGGAGCC
23538 IS	[CT]		CAC
23543 I		S	ACCCTCCGCCCCTTCCAACCCCT
23543 P	C	S	CGCGCCGAGGGGTAACTCCTCCTTTGACTCT
23543 P	G	S	CGCGCCGAGGCGTAACTCCTCCTTTGACTCT
23543 T	C	S	ATTCAGAGTCAAAGGAGGAGTTACCGGGGGTTGGAAGGGGCGGAGGGTGG
23543 T	G	S	ATTCAGAGTCAAAGGAGGAGTTACGGGGGTTGGAAGGGGCGGAGGGTGG
			GGGCCATTCCAAGCGCTGTGGCTTTGATTCAGAGTCAAAGGAGGAGTTAC[CG]GGGGTTGGAAGGGGCGGAGGGTGGGGGTGGGGGCGGGGTTCTGAG
23543 IS	[CG]		CCCAG
23554 I		A	GCAAAATCCACAATTACTTTTGCCCCACCAACCTAATAGAATGGAAT
23554 P	G	A	CGCGCCGAGGGCATGGCTCTCAAATGAAATTG
23554 P	A	A	CGCGCCGAGGACATGGCTCTCAAATGAAATTG
23554 T	G	A	AATGCAATTTCATTTGAGAGCCATGCTTCCATTCTATTAGGTTGGTGGGGCAAAAGTAATTGTGGATTTTGCCA
23554 T	A	A	AATGCAATTTCATTTGAGAGCCATGTTTCCATTCTATTAGGTTGGTGGGGCAAAAGTAATTGTGGATTTTGCCA
			AATGGCAAAATCCACAATTACTTTTGCCCCACCAACCTAATAGAATGGAA[GA]CATGGCTCTCAAATGAAATTGCATTCTGGGTGGTAGATGAGTTGATCCCA
23554 IS	[GA]		GACTTAGTACTTTTAAGCAGTGGCTACTAACAATCTGAAATGTGAAAYTATCTCT
23869 I		S	CGCGCCGAGGACTTTCACACAAGAAGAGATGTAG
23869 P	T	S	CGCGCCGAGGGCTTTCACACAAGAAGAGATGT
23869 P	C	S	TCTTCTACATCTCTTCTTGTGTGAAAGTGAGATARTTTCACATTTCAGATTGTTAGTAGCCACTGCTTAAAAGTACTAAGTCAC
23869 T	T	S	TCTTCTACATCTCTTCTTGTGTGAAAGCGAGATARTTTCACATTTCAGATTGTTAGTAGCCACTGCTTAAAAGTACTAAGTCAC
23869 T	C	S	GCCATATTGGATCCTGTCTGTTGCTGTGAGGTCTCTCTCCTCCCTGCTAAGACACACTTCAAATAAAATCTTCTACATCTCTTCTTGTGTGAAAG[TC]GAGAT
23869 IS	[TC]		ARTTTCACATTTCAGATTGTTAGTAGCCACTGCTTAAAAGTACTAAGTCACTACCCACCTACAAATCCTGTTTTGTCTCTTTCTCTTAAAAAATATTTTTAATGG GGCTTA
23877 I		S	TCTGTGCATCACACCAACATGGCACATGTATACATATGTAACAAATCTT
23877 P	C	S	CGCGCCGAGGGCATGTTGTGCACATGTAC
23877 P	T	S	CGCGCCGAGGACATGTTGTGCACATGTACC
23877 T	C	S	TTAGGGTACATGTGCACAACATGCAGATTTGTTACATATGTATACATGTGCCATGTTGGTGTGATGCACAGAAG
23877 T	T	S	TTAGGGTACATGTGCACAACATGTAGATTTGTTACATATGTATACATGTGCCATGTTGGTGTGATGCACAGAAG
			GAAGCCTCTTCTTTTTTTTTTTTAAATTTTATTATTATTATACTTTAAGTTTTAGGGTACATGTGCACAACATG[CT]AGATTTGTTACATATGTATACATGTGCCA TGTTGGTGTGATGCACAGAAGCCTTTTCTGACCTGCCTGTTTTCTATACACTGCTACACATTATAGAAAYCTTCAAGCCCCAGCTCAAGCGCCAACAAGCAAT
23877 IS	[CT]		AACAA
26300 I		A	GGGTGGCCCAGCCTCTCCCCTT
26300 P	INS	A	CGCGCCGAGGCCTCGTTTGGCCAGC
26300 P	DEL	A	CGCGCCGAGGCGTTTGGCCAGCCG
26300 T	INS	A	CGCGGCTGGCCAAACGAGGAGGGGAGAGGCTGGGCCACCCTT
26300 T	DEL	A	ACCGCGGCTGGCCAAACGAGGGGAGAGGCTGGGCCACCCTT
			GTCCTCGGAATGCCAGCGCAAGGACGAAGGGTGGCCCAGCCTCTCCCCTC[CTC-
26300 IS	[CTC-]		]GTTTGGCCAGCCGCGGTCTCTCTCCAGCCTCGCTCTGTGACTCCTGAAT
26302 I		A	CCCCGCTCCAGCCATGGGCCC
26302 P	INS	A	CGCGCCGAGGTCTCTGTCTCCTGTCTGC
26302 P	DEL	A	CGCGCCGAGGTGTCTCCTGTCTGCAAAAAG
26302 T	INS	A	TTTTGCAGACAGGAGACAGAGAGGCCCATGGCTGGAGCGGGGAC
26302 T	DEL	A	CGCTCTTTTTGCAGACAGGAGACAGGCCCATGGCTGGAGCGGGGAC
			TCTGGATTTTCTGAGTGATCTTGGGCTGTCCCCGCTCCAGCCATGGGCCT[-
26302 IS	[-CTCT]		CTCT]GTCTCCTGTCTGCAAAAAGAGCGACGGGACCTGGGATGGGCGCTGTCTAGG
26306 I		A	GCAAGGAAGTGAATTCAGCTTCTGGCTCCAGACACT
26306 P	INS	A	CGCGCCGAGGCCACCGGCTGGGTY
26306 P	DEL	A	CGCGCCGAGGCGGCTGGGTGGTCCY
26306 T	INS	A	GACCACCCAGCCGGTGGGTGTCTGGAGCCAGAAGCTGAATTCACTTCCTTGCTT
26306 T	DEL	A	TCCAGGACCACCCAGCCGGTGTCTGGAGCCAGAAGCTGAATTCACTTCCTTGCTT
			CCTAATACAAGGAAGCAAGGAAGTGAATTCAGCTTCTGGCTCCAGACACC[-
26306 IS	[-CACC]		CACC]GGCTGGGTGGTCCTGGACATGAACCCTTACCATGCTGGGCATTCGCTTTC
26308 I		A	GATGCCCAAGCCCAGTCACTGAAAGCAACTT
26308 P	INS	A	CGCGCCGAGGGCTGGTCATTACTGCCC
26308 P	DEL	A	CGCGCCGAGGGGTCATTACTGCCCATGAG
26308 T	INS	A	TCATGGGCAGTAATGACCAGCAGTTGCTTTCAGTGACTGGGCTTGGGCATCCC
26308 T	DEL	A	CTGACTCATGGGCAGTAATGACCAGTTGCTTTCAGTGACTGGGCTTGGGCATCCC
			GGGGCAGTGGGGCCAGGGGGATGCCCAAGCCCAGTCACTGAAAGCAACTG[CTG-
26308 IS	[CTG-]		]GTCATTACTGCCCATGAGTCAGTGGGTCAGCTGGGTGGTTCTATTGGT
26309 I		A	CCTTGACCCCTTTGGTTTGGCAGGAGTTCTCTT
26309 P	INS	A	CGCGCCGAGGCCTTAATTCTGTTTTCCCTGCA
26309 P	DEL	A	CGCGCCGAGGCTTAATTCTGTTTTCCCTGCAGA
26309 T	INS	A	GATCTGCAGGGAAAACAGAATTAAGGAGAGAACTCCTGCCAAACCAAAGGGGTCAAGGAA
26309 T	DEL	A	AAGATCTGCAGGGAAAACAGAATTAAGAGAGAACTCCTGCCAAACCAAAGGGGTCAAGGAA
			AGAAAGACTATGTGTTTCCTTGACCCCTTTGGTTTGGCAGGAGTTCTCTC[-C]TTAATTCTGTTTTCCCTGCAGATCTTTTCAAAAAGCCCCTTAGGTTTTGC
26309 IS	[-C]		
26313 I		A	GGATGTCCCTAAGGTGATCTGGAAGAGGCTCTGCT
26313 P	INS	A	CGCGCCGAGGCCTCAAAGAGGTTTCAGTCTG
26313 P	DEL	A	CGCGCCGAGGCTCAAAGAGGTTTCAGTCTGTT
26313 T	INS	A	CCAACAGACTGAAACCTCTTTGAGGGCAGAGCCTCTTCCAGATCACCTTAGGGACATCCCA
26313 T	DEL	A	CTCCAACAGACTGAAACCTCTTTGAGGGCAGAGCCTCTTCCAGATCACCTTAGGGACATCCCA
			GTTGGCTTTGCCGTGGGATGTCCCTAAGGTGATCTGGAAGAGGCTCTGCC[-
26313 IS	[-C]		C]TCAAAGAGGTTTCAGTCTGTTGGAGAGGTGAGGAATAGTAGTAGACCACG
26315 I		A	CACAAAATACCGAGAAGATAACCACAATGTACAATACTGTTGTGCGAGAT
26315 P	INS	A	CGCGCCGAGGGAGGCATAAAATAAATCCATTATTTTGAGTC
26315 P	DEL	A	CGCGCCGAGGGGCATAAAATAAATCCATTATTTTGAGTC
26315 T	INS	A	GGGACTCAAAATAATGGATTTATTTTATGCCTCTCTCGCACAACAGTATTGTACATTGTGGTTATCTTCTCGGTATTTTGTG
26315 T	DEL	A	GTGGGACTCAAAATAATGGATTTATTTTATGCCTCTCGCACAACAGTATTGTACATTGTGGTTATCTTCTCGGTATTTTGTG
			CACAAAATACCGAGAAGATAACCACAATGTACAATACTGTTGTGCGAGAG[-AG]GCATAAAATAAATCCATTATTTTGAGTCCCACAGAATTCTAACCATCTAT
26315 IS	[-AG]		
26317 I		S	GCATAAGACCCAAAAATGTCAAAAGAGTTCTTGATTTAGGAGTCAGAAGT
26317 P	INS	S	CGCGCCGAGGACCTGCTCACTAGATCCC
26317 P	DEL	S	CGCGCCGAGGACTGCTCACTAGATCCCATC
26317 T	INS	S	GGATGGGATCTAGTGAGCAGGTCTTCTGACTCCTAAATCAAGAACTCTTTTGACATTTTTGGGTCTTATGC
26317 T	DEL	S	TGGGGATGGGATCTAGTGAGCAGTCTTCTGACTCCTAAATCAAGAACTCTTTTGACATTTTTGGGTCTTATGC
			AGAAGAAGGGTGGAAGAAAGGGAGAAATGGGGATGGGATCTAGTGAGCAG[-
26317 IS	[-G]		G]TCTTCTGACTCCTAAATCAAGAACTCTTTTGACATTTTTGGGTCTTATGC
26319 I		A	AGCTTACAGAAAACCTGCAAGTACACACAAATCATGTTTTATTTTCTGAGA
26319 P	C	A	CGCGCCGAGGCCATTTGCTTTATCACTCCTGT
26319 P	T	A	CGCGCCGAGGTCATTTGCTTTATCACTCCTGTATA
26319 T	C	A	ACAGTATACAGGAGTGATAAAGCAAATGGCTCAGAAAATAAAACATGATTTGTGTGTACTTGCAGGTTTTCTGTAAGCT
26319 T	T	A	ACAGTATACAGGAGTGATAAAGCAAATGACTCAGAAAATAAAACATGATTTGTGTGTACTTGCAGGTTTTCTGTAAGCT
			AGCTTACAGAAAACCTGCAAGTACACACAAATCATGTTTTATTTTCTGAG[CT]CATTTGCTTTATCACTCCTGTATACTGTACTATGTAATTCCTATAGGCAA
26319 IS	[CT]		
26320 I		A	CCGTCCAGCTGGATCGCCTCCTAGGGT
26320 P	INS	A	CGCGCCGAGGAGACATCGAGGCCACG
26320 P	DEL	A	CGCGCCGAGGACATCGAGGCCACGG
26320 T	INS	A	GTCCCGTGGCCTCGATGTCTCCCTAGGAGGCGATCCAGCTGGACGGGG

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FIGURE 129E

26320 T	DEL	A	GGTCCCGTGGCCTCGATGTCCCTAGGAGGCGATCCAGCTGGACGGGG
26320 IS	[GA-]		GCCACCGGCGACACCTTCTGCAACAGCGAGAAAAGGATCTCCCCGTCCAGCTGGATCGCCTCCTAGGGA[GA-]CATCGAGGCCACGGGACCATGACCGTGGGCTGCAGGAGCCAGGGCAGAGACTACACCCCAGCACCCAGCACCCAGCACCCAGCAGGCTCAG
26323 I		A	CCATACTGCCAGCAGCCGACACACTGGT
26323 P	INS	A	CGCGCCGAGGAGCCAAGGAGTACTTCCTG
26323 P	DEL	A	CGCGCCGAGGACCAAGGAGTACTTCCTGG
26323 T	INS	A	TACCCAGGAAGTACTCCTTGGCTCCAGTGTGTCGGCTGCTGGCAGTATGGCC
26323 T	DEL	A	TTACCCAGGAAGTACTCCTTGGTCCAGTGTGTCGGCTGCTGGCAGTATGGCC
26323 IS	[-G]		CACATTCCAAACAGACCCCGGGCCATACTGCCAGCAGCCGACACACTGGA[-G]CCAAGGAGTACTTCCTGGGTAAAACTGCAGTGGGCGTTGGTAGAGTGGGGA
26324 I		A	GCACCTGGATAACATGTGTCTGCAAGTCAAAATAAGCTCTTCTC
26324 P	INS	A	CGCGCCGAGGTTCTTCCATGCGTTCCC
26324 P	DEL	A	CGCGCCGAGGTCCATGCGTTCCCAGT
26324 T	INS	A	AACTGGGAACGCATGGAAGAAAGAAGAGCTTATTTTGACTTGCAGACACATGTTATCCAGGTGCCT
26324 T	DEL	A	GTAAACTGGGAACGCATGGAAGAAGAGCTTATTTTGACTTGCAGACACATGTTATCCAGGTGCCT
26324 IS	[-TCTT]		CTTGAGGCACCTGGATAACATGTGTCTGCAAGTCAAAATAAGCTCTTCTT[-TCTT]CCATGCGTTCCCAGTTTACGTTGCTGTTAAATTCAGCTGCTTTTTTGGCAG
26325 I		S	AGGATGTGGTTCCCTTAGGCGGCATCA
26325 P	A	S	CGCGCCGAGGTTTATTGGCACCCCCAAC
26325 P	G	S	CGCGCCGAGGCTTATTGGCACCCCCAAC
26325 T	A	S	ACCTGTTGGGGGTGCCAATAAAGATGCCGCCTAAGGGAACCACATCCTGA
26325 T	G	S	ACCTGTTGGGGGTGCCAATAAGGATGCCGCCTAAGGGAACCACATCCTGA
26325 IS	[AG]		GAGGTCCGGCTGTCCAGGGCGGGCGTCACCTGTTGGGGGTGCCAATAA[AG]GATGCCGCCTAAGGGAACCACATCCTGATAATCATGTTCTGAGCCATGGGGGACC
26327 I		A	GTTGCACACTTTCCTTCCTATCAGAGAGTAAAGGATGGCCT
26327 P	INS	A	CGCGCCGAGGCCACTAAGCAAACACAAGTTC
26327 P	DEL	A	CGCGCCGAGGCACTAAGCAAACACAAGTTCTG
26327 T	INS	A	GCCAGAACTTGTGTTTGCTTAGTGGGCCATCCTTTACTCTCTGATAGGAAGGAAAGTGTGCAACTC
26327 T	DEL	A	GAGCCAGAACTTGTGTTTGCTTAGTGGGCCATCCTTTACTCTCTGATAGGAAGGAAAGTGTGCAACTC
26327 IS	[-C]		TGTCAAGGAGTTGCACACTTTCCTTCCTATCAGAGAGTAAAGGATGGCCC[-C]ACTAAGCAAACACAAGTTCTGGCTCCCCGCTTTCTGTTTCAGACCCAGAAG
26328 I		A	CAAACCAAACAATCCAAACAAGCCACAGAGCCTGACT
26328 P	INS	A	CGCGCCGAGGAGCCTTCAGGCATTCAG
26328 P	DEL	A	CGCGCCGAGGACCTTCAGGCATTCAGC
26328 T	INS	A	GGTGCTGAATGCCTGAAGGCTGTCAGGCTCTGTGGCTTGTTTGGATTGTTTGGTTTGGG
26328 T	DEL	A	TGGTGCTGAATGCCTGAAGGTGTCAGGCTCTGTGGCTTGTTTGGATTGTTTGGTTTGGG
26328 IS	[-G]		CTAAAGAATAACCCAAACCAAACAATCCAAACAAGCCACAGAGCCTGACA[-G]CCTTCAGGCATTCAGCACCAGGGCCTTAGGACTTCAGCTCTCTTGTCCCCT
26330 I		S	CCAAAGCTAATATCATTGTCTTTTAAAATGCATATTGGCTCATATTTCAT
26330 P	INS	S	CGCGCCGAGGCTCACCAGAGTCTTTCAACTC
26330 P	DEL	S	CGCGCCGAGGCCACCAGAGTCTTTCAACTC
26330 T	INS	S	AACTGAGTTGAAAGACTCTGGTGAGTGAAATATGAGCCAATATGCATTTTAAAAGACAATGATATTAGCTTTGG
26330 T	DEL	S	AACTGAGTTGAAAGACTCTGGTGGTGAAATATGAGCCAATATGCATTTTAAAAGACAATGATATTAGCTTTGG
26330 IS	[A-]		TACAAAATATTGTCTTGTCCAACACTGAACTGAGTTGAAAGACTCTGGTG[A-]GTGAAATATGAGCCAATATGCATTTTAAAAGACAATGATATTAGCTTTGG
26331 I		A	GGTTTGGGAGCATTTCTGTTTCCTATTGGCCCCAGT
26331 P	INS	A	CGCGCCGAGGCCGGATGGGAGTCAAAG
26331 P	DEL	A	CGCGCCGAGGCGGATGGGAGTCAAAGG
26331 T	INS	A	CAGCCTTTGACTCCCATCCGGCTGGGGCCAATAGGAAACAGAAATGCTCCCAAACCAT
26331 T	DEL	A	ACAGCCTTTGACTCCCATCCGCTGGGGCCAATAGGAAACAGAAATGCTCCCAAACCAT
26331 IS	[-C]		CAGAGGACTGGCATGGTTTGGGAGCATTTCTGTTTCCTATTGGCCCCAGC[-C]GGATGGGAGTCAAAGGCTGTGAGACACAGAACCGTGGCCTGGGAGCAGGAA
26335 I		S	TTCATTTCATAAACTTTTCTTAAGTGTCTCTTAAACAAGCATAGTCTGGAT
26335 P	INS	S	CGCGCCGAGGCTTCGTGGATGTCACAGTTAAT
26335 P	DEL	S	CGCGCCGAGGCTCGTGGATGTCACAGTTAATT
26335 T	INS	S	TCCAATTAACTGTGACATCCACGAAGTCCAGACTATGCTTGTTTAAGAGACACTTAAGAAAAGTTTATGAAATGAA
26335 T	DEL	S	CTCCAATTAACTGTGACATCCACGAGTCCAGACTATGCTTGTTTAAGAGACACTTAAGAAAAGTTTATGAAATGAA
26335 IS	[-A]		TGCCCATTTGGTAACTGTCTTTTCCCTCCAATTAACTGTGACATCCACGA[-A]GTCCAGACTATGCTTGTTTAAGAGACACTTAAGAAAAGTTTATGAAATGAA
26367 I		A	CAGGGCCTCCGCGCAGGCCT
26367 P	G	A	CGCGCCGAGGGCTGTCCTTCTGGAGCT
26367 P	A	A	CGCGCCGAGGACTGTCCTTCTGGAGCTG
26367 T	G	A	CAGCCAGCTCCAGAAGGACAGCGGCCTGCGCGGAGGCCCTGGG
26367 T	A	A	CAGCCAGCTCCAGAAGGACAGTGGCCTGCGCGGAGGCCCTGGG
26367 IS	[GA]		CTCTGAAGGGAGATGCATGGCCAAGGTGGCAACTTGGAAGTAGGGATTGGCCCCAGGGCCTCCGCGCAGGCC[GA]CTGTCCTTCTGGAGCTGGCTGGGTGTGGGGGGAACCTGCCTTAATGGTGTTTCCCTCTGTTCTTGTCAACAGGAGGTTCAAGATGTGAGAGGGTCAGACGCCTGAGGAACCCTTACAGTAGGAGCCCA
26368 I		A	AGRGGCGCTCTCCTCACCCCCACGA
26368 P	T	A	CGCGCCGAGGTCTCCTGGGTGCCG
26368 P	C	A	CGCGCCGAGGCCTCCTGGGTGCCG
26368 T	T	A	AGGTCGGCACCCAGGAGACGTGGGGGTGAGGAGAGCGCCYCTTT
26368 T	C	A	AGGTCGGCACCCAGGAGGCGTGGGGGTGAGGAGAGCGCCYCTTT
26368 IS	[TC]		ACTTCGCTGGACGCTGTGCTGGGAAGGACACAGAGAGGTGGCTGGGGCAGCCTGCGGTCACAAAGCGAGGCCCAAAGRGGCGCTCTCCTCACCCCCACG[TC]CTCCTGGGTGCCGACCTGCACCCTCCCTTCGCCACCGGACTGGGGCCATCTGGGATGTCTCGGGGGTATCCGGAGGGCTAAGCACCGCCGAGGGACGG
26370 I		S	GCACATGGGGACAGGACAGGTGCCACA
26370 P	A	S	CGCGCCGAGGTGTCACACCCCATCTCA
26370 P	G	S	CGCGCCGAGGCGTCACACCCCATCTCA
26370 T	A	S	TGACTGAGATGGGGTGTGACAGTGGCACCTGTCCTGTCCCCATGTGCCC
26370 T	G	S	TGACTGAGATGGGGTGTGACGGTGGCACCTGTCCTGTCCCCATGTGCCC
26370 IS	[AG]		AACCTCTTCAAAGGGCTTCCAGCAAGAGTAGAATCCACTGCAGTTCCCCTTAGTGACTGAGATGGGGTGTGAC[AG]GTGGCACCTGTCCTGTCCCCATGTGCCCTCTGGGGTAGCGCCTTTGAGTCTGAGGATTCAGTTTAAAGATAGTCAATAGGTTTTTCTTCTGAGTCCAAGGAGGACTCAGGTCAGTGGAAATAAGGAATGTTG
26372 I		S	TCCACTGACCTGAGTCCTCCTTGGACTCAGAAGAAAAT
26372 P	T	S	CGCGCCGAGGACCTATTGACTATCTTTAAACTGAATCC
26372 P	G	S	CGCGCCGAGGCCCTATTGACTATCTTTAAACTGAATC
26372 T	T	S	CTGAGGATTCAGTTTAAAGATAGTCAATAGGTTTTTCTTCTGAGTCCAAGGAGGACTCAGGTCAGTGGAAA
26372 T	G	S	CTGAGGATTCAGTTTAAAGATAGTCAATAGGGTTTTCTTCTGAGTCCAAGGAGGACTCAGGTCAGTGGAAA
26372 IS	[TG]		TGACAGTGGCACCTGTCCTGTCCCCATGTGCCCTCTGGGGTAGCGCCTTTGAGTCTGAGGATTCAGTTTAAAGATAGTCAATAGG[TG]TTTTCTTCTGAGTCCAAGGAGGACTCAGGTCAGTGGAAATAAGGAATGTTGCTTGCATGTGAAATGAGGTTGATAATAAATAAAGTAACTGCGTGTTGCTGTGCACTTTAGGTGGCGCCAT
26373 I		S	GCCCAGGCGCCAGGATGAGAGCAT
26373 P	C	S	CGCGCCGAGGGGAAACCAGTCGGGCY
26373 P	T	S	CGCGCCGAGGAGAAACCAGTCGGGCGY
26373 T	C	S	TCAACGCCCGACTGGTTTCCTGCTCTCATCCTGGCGCCTGGGCCC
26373 T	T	S	TCAACGCCCGACTGGTTTCTTGCTCTCATCCTGGCGCCTGGGCCC

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FIGURE 129E

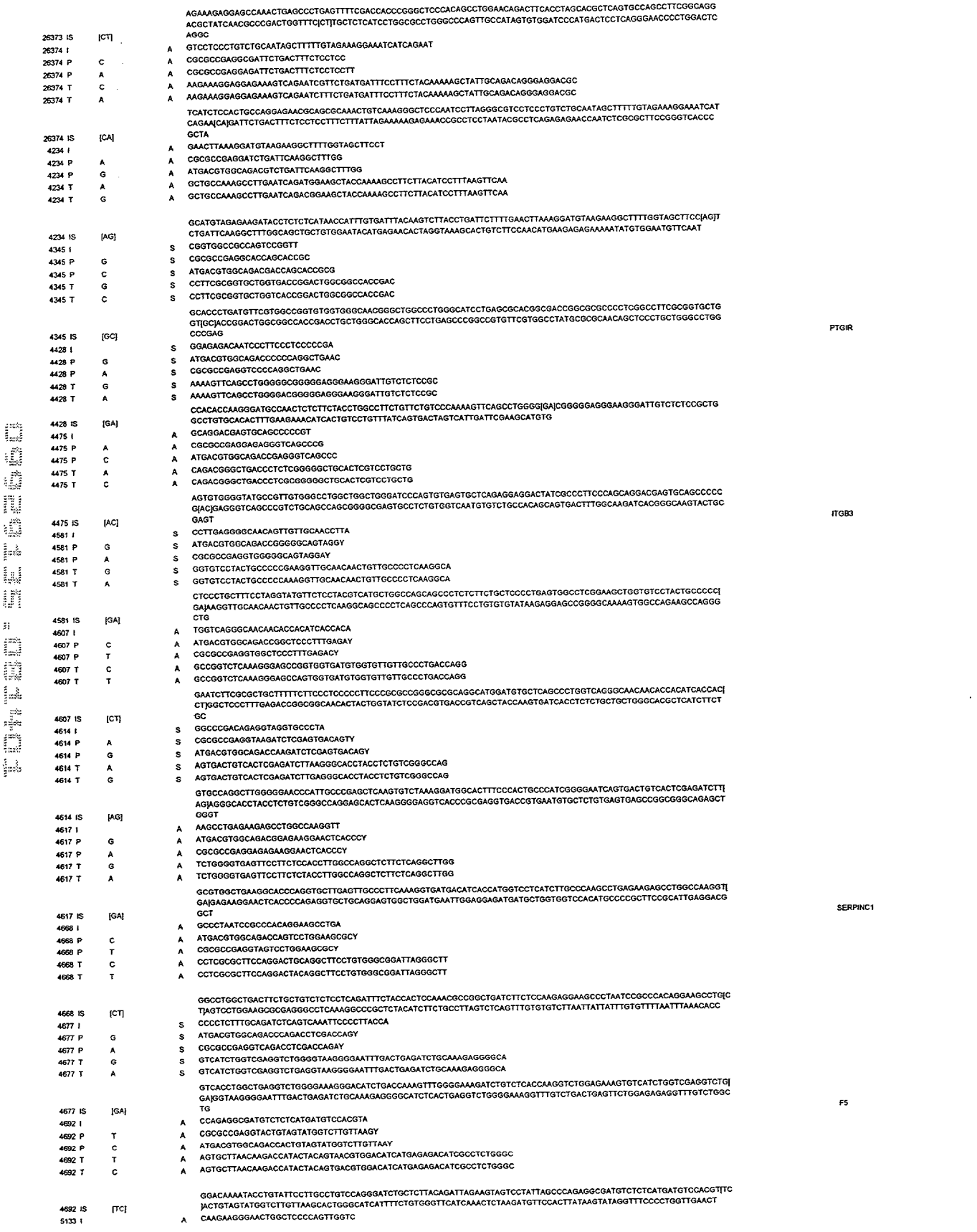


FIGURE 129E

5133 P	T	A	CGCGCCGAGGTCCAGCCGGGTG
5133 P	G	A	ATGACGTGGCAGACGCCAGCCGGGTG
5133 T	T	A	TGCCCACCCGGCTGGAACCAACTGGGGAGCCAGTTCCCTTCTTGAG
5133 T	G	A	TGCCCACCCGGCTGGCACCAACTGGGGAGCCAGTTCCCTTCTTGAG
5133 IS	[TG]		CCAGCACGCAAGGGGAAGCCCATTTATGTCCTCAAGAAGGGAACTGGCTCCCCAGTTGGT[TG]CCAGCCGGGTGGGCACGAAGTGTCTGTGAAGGAGGG GGACTCTGTCCGTGGCAGAGGAGT
5194 I		A	TTCCAAAAATACGAATGCAACCCTAAAGCTTTCGTAATTAAAAT
5194 P	C	A	CGCGCCGAGGCTGCACTTTGGACATTTG
5194 P	G	A	ATGACGTGGCAGACGTGCACTTTGGACATTTG
5194 T	C	A	GTCCCAAATGTCCAAAGTGCAGTTTTAATTACGAAAGCTTTAGGGTTGCATTCGTATTTTTGGAACA
5194 T	G	A	GTCCCAAATGTCCAAAGTGCACTTTTAATTACGAAAGCTTTAGGGTTGCATTCGTATTTTTGGAACA
5194 IS	[CG]		GGATAAAATACAAGTTGTTCCAAAAATACGAATGCAACCCTAAAGCTTTCGTAATTAAAA[CG]TGCACTTTGGACATTTGGGACACACTTTTCTTCTTTTATGG TGACATAATTATAGATTCC
5240 I		A	GAACTAGGGGTGGGAATAAGGGACTTTGGGGTAT
5240 P	C	A	CGCGCCGAGGCCCTAATGGTGCTCGG
5240 P	G	A	ATGACGTGGCAGACGCCTAATGGTGCTCG
5240 T	C	A	GTCCCCGAGCACCATTAGGGTACCCCAAAGTCCCTTATTCCCACCCCTAGTTCCC
5240 T	G	A	GTCCCCGAGCACCATTAGGCTACCCCAAAGTCCCTTATTCCCACCCCTAGTTCCC
5240 IS	[CG]		AACCAACTGGTCTTGTGGTACTTAGGGGAACTAGGGGTGGGAATAAGGGACTTTGGGGTA[CG]CCTAATGGTGCTCGGGGACAGCCTCAAGATAACTTCTT TGCTCACCAAGGTCTCCCACCA
5244 I		A	CTTGAAAAGTTAATGTTGGCTTTTATATCACACTATAGGAAATCTCTTTTAAGTTT
5244 P	A	A	CGCGCCGAGGAATTTCAATGCATTCTTTAAAATACTAT
5244 P	C	A	ATGACGTGGCAGACCATTTCAATGCATTCTTTAAAATACT
5244 T	A	A	TTAAATAGTATTTTAAAGAATGCATTGAAATTAACTTAAAAGAGATTTCCTATAGTGTGATATAAAAGCCAACATTAACTTTTCAAGTG
5244 T	C	A	TTAAATAGTATTTTAAAGAATGCATTGAAATGAACTTAAAAGAGATTTCCTATAGTGTGATATAAAAGCCAACATTAACTTTTCAAGTG
5244 IS	[AC]		TTCCACTTGAAAAGTTAATGTTGGCTTTTATATCACACTATAGGAAATCTCTTTTAAGTT[AC]ATTTCAATGCATTCTTTAAAATACTATTTAAAAGGCCTCTTTC TCTGCCTTCCTATGCAG
5295 I		S	ACGCATTGTGAAACTAGTAGTGAACTCTCGCTAGGATATTACAAATATTATGACAT
5295 P	G	S	CGCGCCGAGGCGGTCTACAGGCCCY
5295 P	C	S	ATGACGTGGCAGACGGGTCTACAGGCCCY
5295 T	G	S	CACAGGGCCTGTAGACCGTGTCATAATATTTGTAATATCCTAGCGAGAGTTCACTACTAGTTTCACAATGCGTGT
5295 T	C	S	CACAGGGCCTGTAGACCCTGTCATAATATTTGTAATATCCTAGCGAGAGTTCACTACTAGTTTCACAATGCGTGT
5295 IS	[GC]		TAATATTCTTCGTAATCTTCTAGGAAAACGTTACTTTTAATGTCACAGGGCCTGTAGACC[GC]TGTCATAATATTTGTAATATCCTAGCGAGAGTTCACTACTA GTTTCACAATGCGTGTACA
5329 I		S	TGGGTATATTGTCTTGCTAACTTAGCAAGCCTTTACAGAAATCACTCT
5329 P	C	S	ATGACGTGGCAGACGCCTTTTCTGATCCTAAGTTY
5329 P	G	S	CGCGCCGAGGCCCTTTTCTGATCCTAAGTTCY
5329 T	C	S	TGTGGAACTTAGGATCAGAAAAGGCGAGTGATTTCTGTAAAGGCTTGCTAAGTTAGCAAGACAATATACCCACT
5329 T	G	S	TGTGGAACTTAGGATCAGAAAAGGGGAGTGATTTCTGTAAAGGCTTGCTAAGTTAGCAAGACAATATACCCACT
5329 IS	[CG]		CTTATACATATTTTGACTTTCCACTCAGATTACAGGTGTGGAACTTAGGATCAGAAAAGG[CG]GAGTGATTTCTGTAAAGGCTTGCTAAGTTAGCAAGACAAT ATACCCACTTCAAGAGCACT
5343 I		A	CTGCAGGGAGGCGGAGGGGACT
5343 P	C	A	CGCGCCGAGGCGGCGCAGGTGCY
5343 P	G	A	ATGACGTGGCAGACGGGCGCAGGTGCY
5343 T	C	A	AGCAGCACCTGCGCCGGTCCCCTCCGCCTCCCTGCAGGG
5343 T	G	A	AGCAGCACCTGCGCCCGTCCCCTCCGCCTCCCTGCAGGG
5343 IS	[CG]		AATGAGGGGAGGTGAGTGTGAGCCCAGACACAAACCTCCCTGCAGGGAGGCGGAGGGGAC[CG]GGCGCAGGTGCTGCTCAGGACCAGCAGGGGCGCG CGGGGCCCACAGAGCATGAGGCCGG
5352 I		A	CCGGAGGAGACACAGTTACCCGAACCCTTA
5352 P	C	A	ATGACGTGGCAGACCGCCTGAATAACTCCAGY
5352 P	T	A	CGCGCCGAGGTGCCTGAATAACTCCAGY
5352 T	C	A	GGGGCTGGAGTTATTCAGGCGAAGGGTTCGGGTAACTGTGTCTCCTCCGGAG
5352 T	T	A	GGGGCTGGAGTTATTCAGGCAAAGGGTTCGGGTAACTGTGTCTCCTCCGGAG
5352 IS	[CT]		CTGTCCCCCTCCAGGTTCGGCACCCAGGTCTCCGGAGGAGACACAGTTACCCGAACCCTT[CT]GCCTGAATAACTCCAGCCCCTGTGGTAAGACATGCATG AGAGAAGTCAGTGTTCTTGCCA
5387 I		A	GCAGGCAGCCTTCTTCCACCAGATTCCAT
5387 P	A	A	CGCGCCGAGGATCCACCTTAGAAGTAGGTCY
5387 P	G	A	ATGACGTGGCAGACGTCCACCTTAGAAGTAGGTY
5387 T	A	A	ATTAGACCTACTTCTAAGGTGGATTGGAATCTGGTGGAAGAAGGCTGCCTGCTG
5387 T	G	A	ATTAGACCTACTTCTAAGGTGGACTGGAATCTGGTGGAAGAAGGCTGCCTGCTG
5387 IS	[AG]		CTGAAAGAGGAGGGTGTACTTTCCAGAGGACAGCAGGCAGCCTTCTTCCACCAGATTCCA[AG]TCCACCTTAGAAGTAGGTCTAATGGTTACATGTGAATAA ATGATGGCAAAAATATTCCTT
5417 I		S	GAGCTCTCTGTTGAAACAGGGCAAGCCTGTT
5417 P	C	S	ATGACGTGGCAGACGTTTGAGACTAATGTGAAGC
5417 P	T	S	CGCGCCGAGGATTTGAGACTAATGTGAAGCC
5417 T	C	S	TCCTGGCTTCACATTAGTCTCAAACACAGGCTTGCCCTGTTTCAACAGAGAGCTCTA
5417 T	T	S	TCCTGGCTTCACATTAGTCTCAAATACAGGCTTGCCCTGTTTCAACAGAGAGCTCTA
5417 IS	[CT]		TAAGCAGTATCAAAGAAAAAGATGGCCTTGCCCAGCTCCTGGCTTCACATTAGTCTCAAA[CT]ACAGGCTTGCCCTGTTTCAACAGAGAGCTCTAGATGTCC TAGAAGAGAGGAGCATAGCAT
5421 I		A	CCCTTGCCAACTGGTCTCATGCCCAA
5421 P	C	A	ATGACGTGGCAGACCGTGTCTCCCCTCTTC
5421 P	T	A	CGCGCCGAGGTGTGTCTCCCCTCTTC
5421 T	C	A	ACCTGAAGAGGGGAGACACGTGGGCATGAGACCAGTTGGCAAGGGCC
5421 T	T	A	ACCTGAAGAGGGGAGACACATGGGCATGAGACCAGTTGGCAAGGGCC
5421 IS	[CT]		GCCAGGATGGTGGGGGTCTCTGGGCACCTACCTGGCCCTTGCCAACTGGTCTCATGCCCA[CT]GTGTCTCCCCTCTTCAGGTTGGTGGGGCTGAAGTGCC CGAGCGAGCCTGTGCTTCCGAGG
5455 I		A	GAGACCGACCTCCCTGCTCCACCAT
5455 P	C	A	CGCGCCGAGGCCAGACCCGACCC
5455 P	G	A	ATGACGTGGCAGACGCAGACCCGACCC
5455 T	C	A	GTGGGGGTCGGGTCTGGTGGTGGAGCAGGGAGGTCGGTCTCTA
5455 T	G	A	GTGGGGGTCGGGTCTGCTGGTGGAGCAGGGAGGTCGGTCTCTA
5455 IS	[CG]		ACTTGCATCCGGTTCTCCATTCTCAAGCCCTGGGTAGAGACCGACCTCCCTGCTCCACCA[CG]CAGACCCGACCCCCACCAGCTCAAAGACAGGTATGTGA ATCAGGCTTGGTCAATTTGCAT
5462 I		A	GGGCGGAAGCTCCTGGGGAGCA
5462 P	C	A	ATGACGTGGCAGACCCTGTGAGACCAACAGY
5462 P	T	A	CGCGCCGAGGTCTGTGAGACCAACAGGY
5462 T	C	A	CAGCCCTGTTGGTCTCACAGGGCTCCCCAGGAGCTTCCGCCCTT
5462 T	T	A	CAGCCCTGTTGGTCTCACAGAGCTCCCCAGGAGCTTCCGCCCTT
5462 IS	[CT]		GATGCCATGGCTGCTGGAGCGCGCCAGGTACTCGTTAAAGGGCGGAAGCTCCTGGGGAGC[CT]CTGTGAGACCAACAGGGCTGACTCCAGGTGAGGGCA CTGGAGCATCCTGGGGCCTTCCCG
5493 I		S	CATCCTACCCTGCAGAATCAGGCAGCTCTACATTAGA
5493 P	A	S	CGCGCCGAGGTGGAGAAATGGAGATGCY
5493 P	G	S	ATGACGTGGCAGACCGGAGAAATGGAGATGCY
5493 T	A	S	GTTCGCATCTCCATTTCTCCACTAATGTAGAGCTGCCTGATTCTGCAGGGTAGGATGTA
5493 T	G	S	GTTCGCATCTCCATTTCTCCGCTAATGTAGAGCTGCCTGATTCTGCAGGGTAGGATGTA
5493 IS	[AG]		GTGCTCTACAGTATCAGGTAAGCCTCCATTGGCTGCACATGTTCGCATCTCCATTTCTCC[AG]CTAATGTAGAGCTGCCTGATTCTGCAGGGTAGGATGTAT ATGAATATTTGACTTTTGTGG

FIGURE 129E

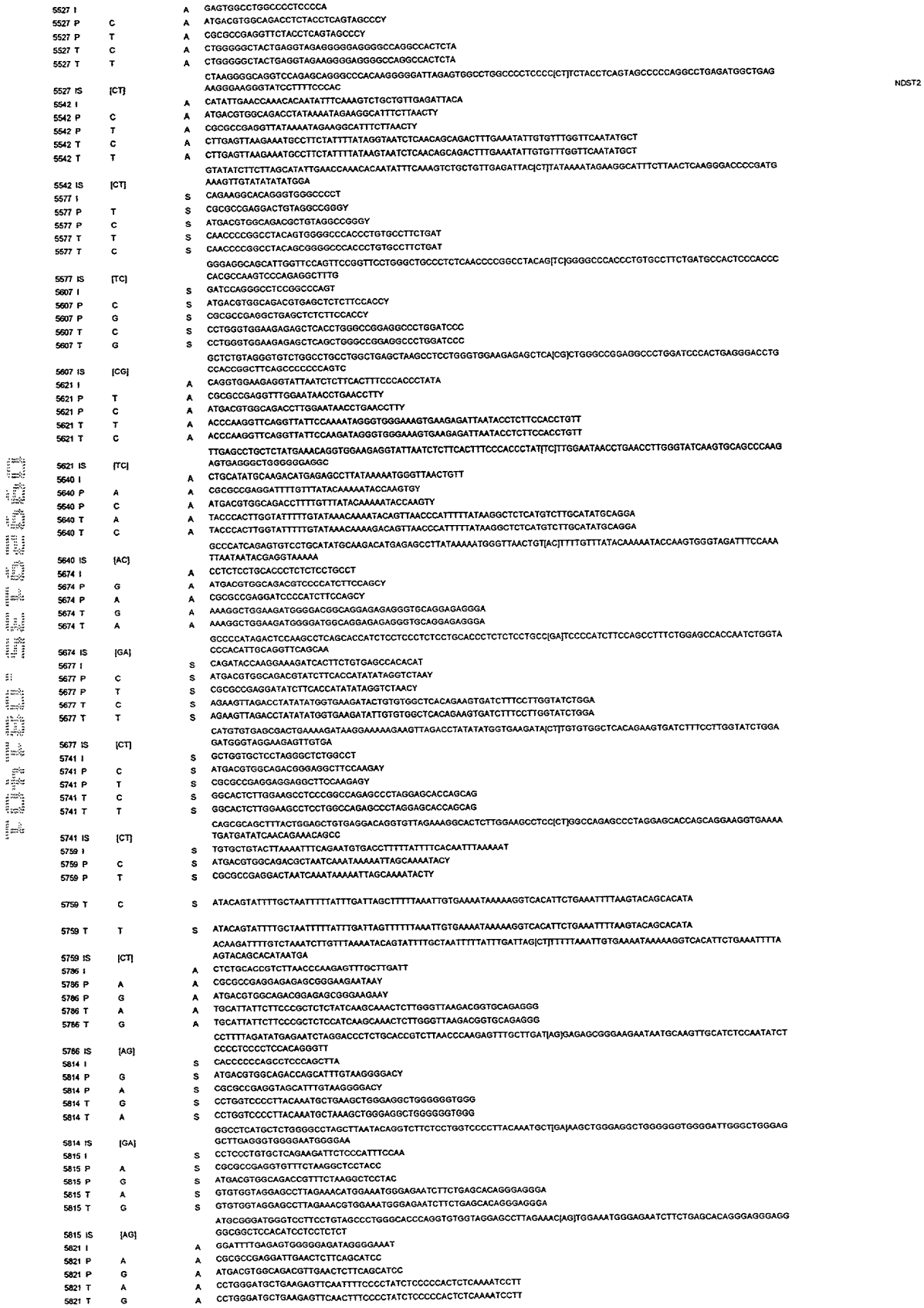
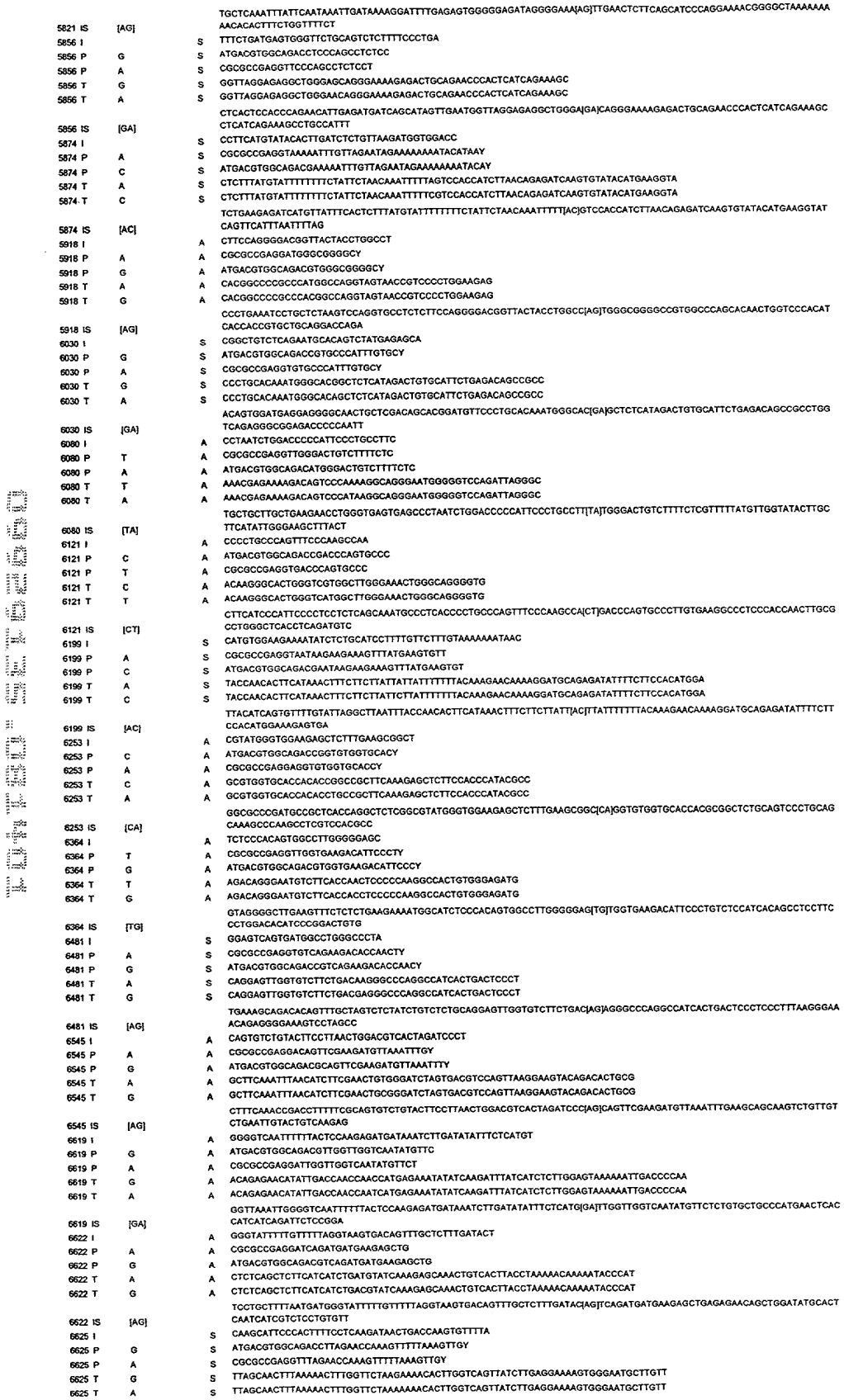


FIGURE 129E



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FIGURE 129E

				ATCTCTACAGCTATCTTACAGGCAAATATATCTTAGCAACTTTAAAAACTTTGGTTCTAA[GA]AAAACACTTGGTCAGTTATCTTGAGGAAAAGTGGGAATGCT	
6625	IS	[GA]		TGTTCTGCACATTGCTGTA	CRIM1
6655	I		A	ACTTTGCACTGAGTGGTCTCCTCCAAAATGCACT	
6655	P	A	A	CGCGCCGAGGAGGCAAATCAGCCTGAY	
6655	P	G	A	ATGACGTGGCAGACGGGCAAATCAGCCTGY	
6655	T	A	A	GCTTTCAGGCTGATTTGCCTGTGCATTTTGGAGGAGACCACTCAGTGCAAAGTGG	
6655	T	G	A	GCTTTCAGGCTGATTTGCCCGTGCATTTTGGAGGAGACCACTCAGTGCAAAGTGG	
				TGTCAACCATAAACAGACCTCAAATCCACTTTGCACTGAGTGGTCTCCTCCAAAATGCAC[AG]GGCAAATCAGCCTGAAAGCAAACTCCAAACAAGTTGGAG	
6655	IS	[AG]		AAAGCAAAGAGTGAGGGCCTA	
6673	I		S	TCTCTACAGGAACAGGGATGGGACCTCGAAGAGT	
6673	P	C	S	ATGACGTGGCAGACGCCTTGGCAGGAGAY	
6673	P	G	S	CGCGCCGAGGCCCTTGGCAGGAGAAY	
6673	T	C	S	CCCCTTCTCCTGCCAAGGCCTCTTCGAGGTCCCATCCCTGTTCCTGTAGAGAAG	
6673	T	G	S	CCCCTTCTCCTGCCAAGGGCTCTTCGAGGTCCCATCCCTGTTCCTGTAGAGAAG	
				GTACAACCCGGAGCCCCCGGTAAGCCCCCTCTGCAACCAGACCCCCTTCTCCTGCCAAGG[CG]CTCTTCGAGGTCCCATCCCTGTTCCTGTAGAGAAGCC	
6673	IS	[CG]		CCACCTTCCTCCCCTTCTTGTGA	
6675	I		A	CCAAACCTGCACCTGGGACTAAAGCCACAA	
6675	P	T	A	CGCGCCGAGGTTCTATTTCCTTTACCTTTAAGTCAY	
6675	P	C	A	ATGACGTGGCAGACCTCTATTTCCTTTACCTTTAAGTCY	
6675	T	T	A	TCCCTGACTTAAAGGTAAAGGAAATAGAATGTGGCTTTAGTCCCAGGTGCAGGTTTGGGT	
6675	T	C	A	TCCCTGACTTAAAGGTAAAGGAAATAGAGTGTGGCTTTAGTCCCAGGTGCAGGTTTGGGT	
				ACATTGCTTCTCAGGCACCTGTATCCTGTACCCAAACCTGCACCTGGGACTAAAGCCACA[TC]TCTATTTCCTTTACCTTTAAGTCAGGGATTTTGCTGTAAG	
6675	IS	[TC]		GTATTTTTAATGTACGGACA	
6793	I		A	GGTCAGTGCTCTGCCTCTAGGACCCACAA	
6793	P	T	A	CGCGCCGAGGTGCTCAGATCAGCAGGY	
6793	P	C	A	ATGACGTGGCAGACCGCTCAGATCAGCAGY	
6793	T	T	A	CTCTCCTGCTGATCTGAGCATGTGGGTCCTAGAGGCAGAGCACTGACCTG	
6793	T	C	A	CTCTCCTGCTGATCTGAGCGTGTGGGTCCTAGAGGCAGAGCACTGACCTG	
				CTGAGGAGAAGGGGTCGGTCATCAGCCTCCCAGGTCAGTGCTCTGCCTCTAGGACCCACA[TC]GCTCAGATCAGCAGGAGAGGTCCCAGGGACTGCACCA	
6793	IS	[TC]		TAGCACCTCGTATTTTTATCAAG	
6872	I		S	GGATGGCGTGACATGAGGAATGGCCTCATA	
6872	P	G	S	ATGACGTGGCAGACCGAGGAGTGGTGTCCY	
6872	P	A	S	CGCGCCGAGGTGAGGAGTGGTGTCCY	
6872	T	G	S	CGGGGGACACCACTCCTCGATGAGGCCATTCCTCATGTCACGCCATCCCT	
6872	T	A	S	CGGGGGACACCACTCCTCAATGAGGCCATTCCTCATGTCACGCCATCCCT	
				AGCATTCTTGGGGTAGCGCCACCCCTGCCATAGCAGCTCTCCCGGGGGACACCACTCCTC[GA]ATGAGGCCATTCCTCATGTCACGCCATCCCTCGGGTC	
6872	IS	[GA]		ACCCTGCTCTGCGTGTGAAGCTG	
6926	I		S	CCCACCCTGTGCCCAGACCCTCT	
6926	P	C	S	ATGACGTGGCAGACGGCTGCTGAGGTCTY	
6926	P	T	S	CGCGCCGAGGAGCTGCTGAGGTCTGY	
6926	T	C	S	CCTCCAGACCTCAGCAGCCGAGGGTCTGGGCACAGGGTGGGGA	
6926	T	T	S	CCTCCAGACCTCAGCAGCTGAGGGTCTGGGCACAGGGTGGGGA	
				GATCTGACCTGGGTCCTGTCTCCAAGCCCTGACTTCTGGGAACCTCCAGACCTCAGCAGC[CT]GAGGGTCTGGGCACAGGGTGGGGAGACCAGGTAGAG	
6926	IS	[CT]		GGAGTACAGAGTGACCGCCTCAAG	
6929	I		A	CGTGGTGAGTGCAGGCGGTGACCA	
6929	P	T	A	CGCGCCGAGGTGGCTCCTGCTGCY	
6929	P	C	A	ATGACGTGGCAGACCGGCTCCTGCTGCY	
6929	T	T	A	AAGAGCAGCAGGAGCCAGGTCACCGCCTGCACTCACCACGTG	
6929	T	C	A	AAGAGCAGCAGGAGCCGGGTCACCGCCTGCACTCACCACGTG	
				AGGCCCTGGTCCTGCAGAGACGCACCCAGGTTACACACGTGGTGAGTGCAGGCGGTGACC[TC]GGCTCCTGCTGCTCTTTGGAAAGTCAAGAGTGGCGG	
6929	IS	[TC]		CTCCTGGGGCCCCAGTGAGACCCC	
11121	I		A	CATGGTGCTGGGCACCTAGCAATCACATTATCAATCAATATTATTAGTAGA	
11121	P	T	A	CGCGCCGAGGTAGTATTATCAATCATTTATTTTCATGTATCY	
11121	P	C	A	ATGACGTGGCAGACCAGTATTATCAATCATTTATTTTCATGTATY	
11121	T	T	A	AAGGGATACATGAAAATAAATGATTGATAATACTACTACTAATAATATTGATTGATAATGTGATTGCTAGGTGCCCAGCACCATGCA	
11121	T	C	A	AAGGGATACATGAAAATAAATGATTGATAATACTGCTACTAATAATATTGATTGATAATGTGATTGCTAGGTGCCCAGCACCATGCA	
				TCTTACACTGCATGGTGCTGGGCACCTAGCAATCACATTATCAATCAATATTATTAGTAG[TC]AGTATTATCAATCATTTATTTTCATGTATCCCTTCACTCTTG	
11121	IS	[TC]		TCTTTCCAGACTTCTGGA	
11163	I		A	TGCTGCAGTTTTGTACCCCTTTCACTTTTTGTC	
11163	P	T	A	CGCGCCGAGGTTTAAAATAATGTCCTTTTATGATGTGY	
11163	P	A	A	ATGACGTGGCAGACATTAAAATAATGTCCTTTTATGATGTGY	
11163	T	T	A	CCAACACATCATAAAAGGACATTATTTTAAAACAAAAAGTGAAAGGGGTACAAAACTGCAGCATA	
11163	T	A	A	CCAACACATCATAAAAGGACATTATTTTAATACAAAAAGTGAAAGGGGTACAAAACTGCAGCATA	
				ATTACGTAAACTAAAGGAATGTTCTTTATGCTGCAGTTTTGTACCCCTTTCACTTTTTGT[TA]TTAAAATAATGTCCTTTTATGATGTGTTGGCAGTCGTACAAA	
11163	IS	[TA]		TTTTGTCTGAAGTGCCCC	
11174	I		A	CTCTCCCACCACTCCCTCCCTGCTAGAA	
11174	P	T	A	CGCGCCGAGGTCCCCTAACTCCATCTGY	
11174	P	C	A	ATGACGTGGCAGACCCCCCTAACTCCATCTGY	
11174	T	T	A	GTGGCAGATGGAGTTAGGGGATCTAGCAGGGAGGGAGTGGTGGGAGAGGT	
11174	T	C	A	GTGGCAGATGGAGTTAGGGGGTCTAGCAGGGAGGGAGTGGTGGGAGAGGT	
				GCTCAAGGTGCAAGCGCTCCCCTCCTTTGACACCTCTCCCACCACTCCCTCCCTGCTAGA[TC]CCCCTAACTCCATCTGCCACTAGCTTTGGGATCATGGG	
11174	IS	[TC]		GTCACTGGTCCCCACTCTGGTC	
11182	I		A	GCAGTGGGCCCCCACCTGTCCT	
11182	P	A	A	CGCGCCGAGGAAAGCTGAGCAGCTGAY	
11182	P	G	A	ATGACGTGGCAGACGAAGCTGAGCAGCTGY	
11182	T	A	A	AGATTCAGCTGCTCAGCTTTGGACAGGTGGGGGCCCACTGCCA	
11182	T	G	A	AGATTCAGCTGCTCAGCTTCGGACAGGTGGGGGCCCACTGCCA	
				ACAGCCCAGAAGCCCTATTGCAATACCAGCTGGATCCTGGCAGTGGGCCCCCACCTGTCC[AG]AAGCTGAGCAGCTGAATCTGACCATACCCCAAGCACCC	
11182	IS	[AG]		AATGGCAGTTTCCTGACATGCT	ORCTL4
11187	I		A	CATGCAAACTTCATCTCTTTTTCTCCCTGCTTTTTCCCCA	
11187	P	T	A	CGCGCCGAGGTCCAGGCCTGATTGCY	
11187	P	C	A	ATGACGTGGCAGACCCCAGGCCTGATTGY	
11187	T	T	A	TCGAGCAATCAGGCCTGGAGGGGAAAAAGCAGGGAGAAAAAGAGATGAAGTTTGCATGGG	
11187	T	C	A	TCGAGCAATCAGGCCTGGGGGGGAAAAAGCAGGGAGAAAAAGAGATGAAGTTTGCATGGG	
				CTCCCTGTCCCCACTTTCTCCCATGCAAACTTCATCTCTTTTTCTCCCTGCTTTTTCCCC[TC]CCAGGCCTGATTGCTCGAAAGCTTGCCCTTGCTCAGCTGC	
11187	IS	[TC]		GCCAGGAGAGGTGAAGTTTG	
11191	I		A	AGGGTGGGGTGGGAACTGCGAATCAAAGT	
11191	P	C	A	CGCGCCGAGGCTCCTGCTGATATGCCY	
11191	P	G	A	ATGACGTGGCAGACGTCCTGCTGATATGCCY	
11191	T	C	A	ACGGGGCATATCAGCAGGAGCTTTGATTCGCAGTTCCCACCCCACCCTCC	
11191	T	G	A	ACGGGGCATATCAGCAGGACCTTTGATTCGCAGTTCCCACCCCACCCTCC	
				GGTGTCGAGAGGGAAATGGGTGCTTCCCTTGGAGGGTGGGGTGGGAACTGCGAATCAAAG[CG]TCCTGCTGATATGCCCCGTCTGCACTTTCACCCCAGC	
11191	IS	[CG]		CCTGCAAGAAAAGGTGGCTGAAG	
11229	I		A	AACTGATGTGCCTTGGCAGATGATGCTGGAAAT	
11229	P	A	A	CGCGCCGAGGAATGGGATTCCCGGCY	
11229	P	G	A	ATGACGTGGCAGACGATGGGATTCCCGGCY	
11229	T	A	A	GGCTGCCGGGAATCCCATTTTTCCAGCATCATCTGCCAAGGCACATCAGTTCC	

FIGURE 129E

11229 T	G	A	GGCTGCCGGGAATCCCATCTTTCCAGCATCATCTGCCAAGGCACATCAGTTCC
11229 IS	[AG]		GCTGCCAGAACCCATCAAGACACCCAGGAACTGATGTGCCTTGGCAGATGATGCTGGAAA[AG]ATGGGATTCCCGGCAGCCTTTGCATCCCTTGCTCACAG CCCACAAGCATCTCCACTGTCC
11266 I		S	GTGAAGGGGGGACCTATTTATTGTGCATTATTAAACTTTTT
11266 P	G	S	CGCGCCGAGGCATAAAATAATCAAATTTGAGAGCAGY
11266 P	C	S	ATGACGTGGCAGACGATAAAATAATCAAATTTGAGAGCAGY
11266 T	G	S	AGGACTGCTCTCAAATTTGATTATTTTATGAAAAGTTTAATAATGCACAATAAATAGGTCCCCCCTTCACGT
11266 T	C	S	AGGACTGCTCTCAAATTTGATTATTTTATCAAAAGTTTAATAATGCACAATAAATAGGTCCCCCCTTCACGT
11266 IS	[GC]		TAACCTTTAGTTTCCAATACTATTATTACAAAGGACTGCTCTCAAATTTGATTATTTTAT[GC]AAAAGTTTAATAATGCACAATAAATAGGTCCCCCCTTCACGT AGATACTACCCACACAGC
11325 I		A	CCACCCTGGTGCCTCAGCTCAGTGAT
11325 P	G	A	ATGACGTGGCAGACGACACTGTGCTGACGY
11325 P	A	A	CGCGCCGAGGAACACTGTGCTGACGY
11325 T	G	A	AGCCCGTCAGCACAGTGTCTCACTGAGCTGAGGCACCAGGGTGGGT
11325 T	A	A	AGCCCGTCAGCACAGTGTTTCACTGAGCTGAGGCACCAGGGTGGGT
11325 IS	[GA]		TGGGGGTGGGAGGGGTGGGAATATAAGGGGCTGACCCACCCTGGTGCCTCAGCTCAGTGA[GA]ACACTGTGCTGACGGGCTCATTGAGGCAGGTGGGAG GAGAGAAGGGAGTCTGGTCTCAGA
11348 I		A	GGAGGGGTGCTCCCTTCAGCAGGAGT
11348 P	A	A	CGCGCCGAGGAGAAGAGGCCTCAGGAY
11348 P	G	A	ATGACGTGGCAGACGGAAGAGGCCTCAGGY
11348 T	A	A	GGGGTCCTGAGGCCTCTTCTCTCCTGCTGAAGGGAGCACCCCTCCTG
11348 T	G	A	GGGGTCCTGAGGCCTCTTCCCTCCTGCTGAAGGGAGCACCCCTCCTG
11348 IS	[AG]		GGTAAACGTCGGTGTGAGCAGGTCCAGGCCTGCCAGGAGGGGTGCTCCCTTCAGCAGGAG[AG]GAAGAGGCCTCAGGACCCCCAGGGGCGTCCCACCTG CCTGGGGATTGACCCCGCGCCCCT
11349 I		A	GTTGCCAGTCACCGCCCAGAGAAGAACAT
11349 P	A	A	CGCGCCGAGGAGAAGGAGAGTGTGGTCY
11349 P	G	A	ATGACGTGGCAGACGGAAGGAGAGTGTGGTY
11349 T	A	A	TAGAGACCACACTCTCCTTCTTGTTCTTCTCTGGGCGGTGACTGGCAACTG
11349 T	G	A	TAGAGACCACACTCTCCTTCCTGTTCTTCTCTGGGCGGTGACTGGCAACTG
11349 IS	[AG]		AACAGGGAAGAGGAGAGATAATATCAGCTGCAGTTGCCAGTCACCGCCCAGAGAAGAACA[AG]GAAGGAGAGTGTGGTCTCTAAACCAGAAGTGAGGAAG GAAAGGGGTTTGTTCCCTGCTGC
11383 I		A	GCCTCCTGCACCTTCTGCAGATGGCC
11383 P	G	A	ATGACGTGGCAGACGCCGGCCATGGCY
11383 P	T	A	CGCGCCGAGGTCCGGCCATGGCY
11383 T	G	A	CCTGGCCATGGCCGGCGCCATCTGCAGAAGGTGCAGGAGGCAG
11383 T	T	A	CCTGGCCATGGCCGGAGCCATCTGCAGAAGGTGCAGGAGGCAG
11383 IS	[GT]		ACTTCTCTCCCAGGGTCAGGGGCCACCCTCTCCCTGCCTCCTGCACCTTCTGCAGATGGC[GT]CCGGCCATGGCCAGGTAGAGGAGGTAGTGAACAGTGC CATCCCAGTAGCAGATGAAGACT
11440 I		S	GGACAACACACAAGGATAGTTTGCTAAAAATGCTAGCCTGATC
11440 P	T	S	CGCGCCGAGGAATGTGGAACCAGATACTCY
11440 P	A	S	ATGACGTGGCAGACTATGTGGAACCAGATACTCAY
11440 T	T	S	AATCTGAGTATCTGGTTCCACATTATCAGGCTAGCATTTTTAGCAAACTATCCTTGTGTGTTGTCCCT
11440 T	A	S	AATCTGAGTATCTGGTTCCACATAATCAGGCTAGCATTTTTAGCAAACTATCCTTGTGTGTTGTCCCT
11440 IS	[TA]		TCATTTGGATCTTCCAAATCACACTTGAATATCAATTAATCTGAGTATCTGGTTCCACAT[TA]ATCAGGCTAGCATTTTTAGCAAACTATCCTTGTGTGTTGTC CCTGTACTTTCCAAGAGAG
11443 I		A	GAGTGCATTCATACTTGCAATAATTTTTTCATTGGCCAGAGACATTTTTAGACA
11443 P	C	A	ATGACGTGGCAGACCCGTCTTTTCCTAATCATAATAGTY
11443 P	T	A	CGCGCCGAGGTCGTCTTTTCCTAATCATAATAGTAY
11443 T	C	A	TAATTACTATTATGATTAGGAAAAGACGGGTCTAAAAATGTCTCTGGCCAATGAAAAAATTATTGCAAGTATGAATGCACTCAG
11443 T	T	A	TAATTACTATTATGATTAGGAAAAGACGAGTCTAAAAATGTCTCTGGCCAATGAAAAAATTATTGCAAGTATGAATGCACTCAG
11443 IS	[CT]		AGATCCTGAGTGCATTCATACTTGCAATAATTTTTTCATTGGCCAGAGACATTTTTAGAC[CT]CGTCTTTTCCTAATCATAATAGTAATTATCATCCATTTCATA CCTTCTTTATGTCACTCA
11453 I		S	GCCACTCAGAGACTTGTTGAAAACAGCTCCCTCAA
11453 P	A	S	CGCGCCGAGGTCATTGCTGTAGTCCGAY
11453 P	G	S	ATGACGTGGCAGACCCATTGCTGTAGTCCGY
11453 T	A	S	GCCATCGGACTACAGCAATGATGAGGGAGCTGTTTTCAACAAGTCTCTGAGTGGCAG
11453 T	G	S	GCCATCGGACTACAGCAATGGTGAGGGAGCTGTTTTCAACAAGTCTCTGAGTGGCAG
11453 IS	[AG]		TTCGAGTCTCCTTGGATCAAGATGTGGAGACTGAGACTGAGCCATCGGACTACAGCAATG[AG]TGAGGGAGCTGTTTTCAACAAGTCTCTGAGTGGCAGCC AGACTTCCAGTGCTTGGAGCAA
11528 I		S	GCAGAAAGGCTACCATCACTGCACTGAGAATAACAAGAAT
11528 P	C	S	ATGACGTGGCAGACGATCTGTAACATTGGCCATY
11528 P	T	S	CGCGCCGAGGAATCTGTAACATTGGCCATY
11528 T	C	S	AGCCATGGCCAATGTTACAGATCTTCTTGTTATTCTCAGTGCAGTGATGGTAGCCTTTCTGCCC
11528 T	T	S	AGCCATGGCCAATGTTACAGATTTTCTTGTTATTCTCAGTGCAGTGATGGTAGCCTTTCTGCCC
11528 IS	[CT]		GGCATTGTTCTTGATCCATTTTTCATCCTTCGTAAGGTAGCCATGGCCAATGTTACAGAT[CT]TTCTTGTTATTCTCAGTGCAGTGATGGTAGCCTTTCTGCC CAGCACATGCCACAGAGAAG
11556 I		A	GGGGCCGAGACTCAGGGCTCACAA
11556 P	T	A	CGCGCCGAGGTTGCCCCCACGCY
11556 P	C	A	ATGACGTGGCAGACCTGCCCCCACGCY
11556 T	T	A	CTCGGCGTGGGGGCAATGTGAGCCCTGAGTCTCGGCCCCAG
11556 T	C	A	CTCGGCGTGGGGGCAGTGTGAGCCCTGAGTCTCGGCCCCAG
11556 IS	[TC]		CACCACATCCTCAGGACAGGCCAAGGTGAGGGCACCTGGGGCCGAGACTCAGGGCTCACA[TC]TGCCCCCACGCCGAGATGCCCCCGGGCAGCAGGGCA CACCCTACCTGCGCGGCCACGCCG
11580 I		A	GAGGCTCTGGGCTGCCCTGTCGT
11580 P	G	A	ATGACGTGGCAGACGCTCCTTGAGGGCGY
11580 P	A	A	CGCGCCGAGGACTCCTTGAGGGCGY
11580 T	G	A	ATCCCGCCCTCAAGGAGCCGACAGGGCAGCCCAGAGCCTCCC
11580 T	A	A	ATCCCGCCCTCAAGGAGTCGACAGGGCAGCCCAGAGCCTCCC
11580 IS	[GA]		TCCCAGTATCTTGAGTGGGTGACCACACTTGTCAGTGGGAGGCTCTGGGCTGCCCTGTCG[GA]CTCCTTGAGGGCGGGATGAACTGCTTTGTGACTTGGA AAGGTACGCTGCTGGCCAGCATT
11607 I		S	CCGCCCTCGGCTGAAGCCCCC
11607 P	C	S	ATGACGTGGCAGACGCCCTCTGCTTCCTY
11607 P	A	S	CGCGCCGAGGTCCCTCTGCTTCCTGY
11607 T	C	S	AGAGCAGGAAGCAGAGGGCGGGGCTTCAGCCGAGGGCGGGG
11607 T	A	S	AGAGCAGGAAGCAGAGGGAGGGGCTTCAGCCGAGGGCGGGG
11607 IS	[CA]		GCAGCGGGACGCTGGGTTCTGGAGGCTCCAGCGGCTCCCCTAAGAGCAGGAAGCAGAGGG[CA]GGGGCTTCAGCCGAGGGCGGGGCTTTGGCCTCAGG CGGGGCTTCGGCCGCCCCCAGCTCC
11622 I		S	GTTCATCAGTATCTTTCTCTACCTCCCTCTCCTGGGTACT
11622 P	G	S	CGCGCCGAGGCAACAGATGCCCATTCTY
11622 P	C	S	ATGACGTGGCAGACGAACAGATGCCCATTCTGY
11622 T	G	S	TCTCCAGAATGGGCATCTGTTGGTACCCAGGAGAGGGAGGTAGAGAAAGATACTGATGAACCT
11622 T	C	S	TCTCCAGAATGGGCATCTGTTCGTACCCAGGAGAGGGAGGTAGAGAAAGATACTGATGAACCT
11622 IS	[GC]		TAGAGGAAAGGTCTGACAATGCCCACTGAGCCCTGATGGTCTCCAGAATGGGCATCTGTT[GC]GTACCCAGGAGAGGGAGGTAGAGAAAGATACTGATGAA CCTGGAGTAAGGCCCTGTGGTC
11662 I		S	CACACACGATCTTGATAGGTCCACTTAATCACATACCTGAATCACT
11662 P	T	S	CGCGCCGAGGATAGGGAGCACTGATAGACY
11662 P	C	S	ATGACGTGGCAGACGTAGGGAGCACTGATAGAY
11662 T	T	S	TGCAGTCTATCAGTGCTCCCTATGTGATTCAGGTATGTGATTAAGTGGACCTATCAAGATCGTGTGTGGT
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FIGURE 129E

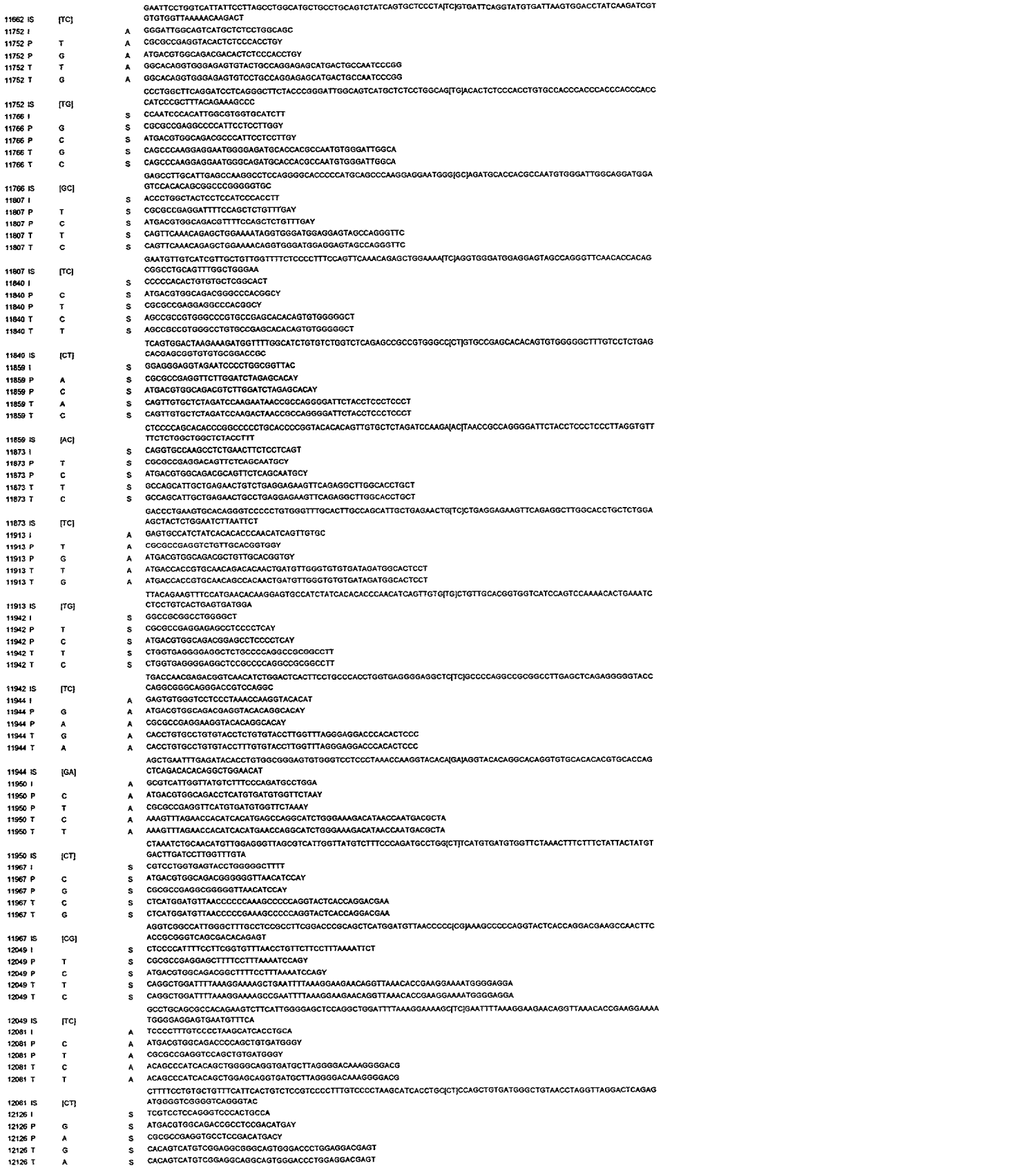


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FIGURE 129E

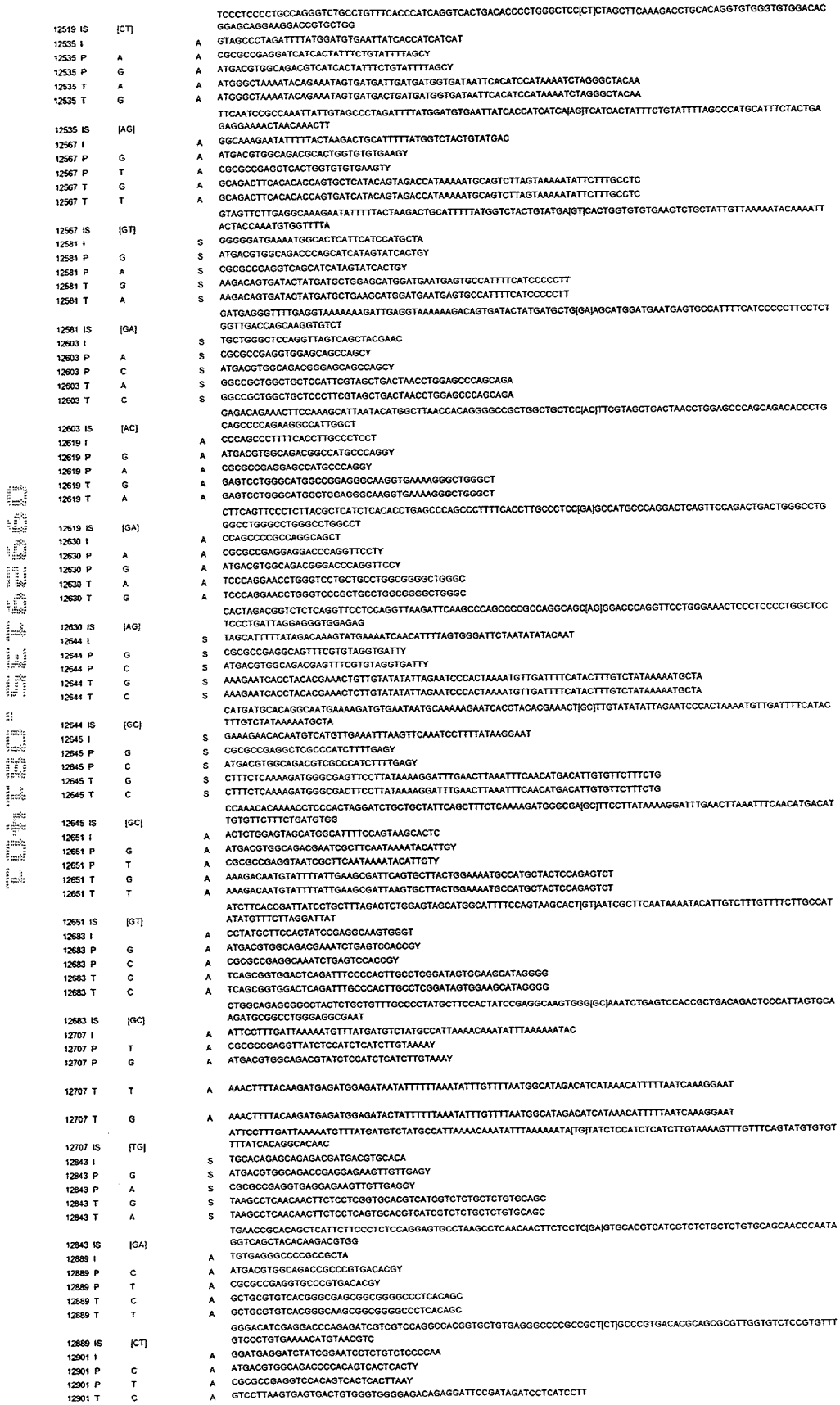
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12130 P	G	S		ATGACGTGGCAGACCGGTTCCACCTGTGGY
12130 P	A	S		CGCGCCGAGGTGGTTCCACCTGTGGY
12130 T	G	S		TGACCCACAGGTGGAACCGCTTCGCCATGATTGTCCAGGGTGAGGAAGTGAC
12130 T	A	S		TGACCCACAGGTGGAACCACTTCGCCATGATTGTCCAGGGTGAGGAAGTGAC
				CCCATGTGTCCCAAGAGGCTGCTGCCTTCTCGGTGCCTGTGATGACCCACAGGTGGAACC[GA]CTTCGCCATGATTGTCCAGGGTGAGGAAGTGACCCTC
12130 IS	[GA]			CTCGTGAACTGTGAGGAGCACAG
12178 I		S		CCATCCCCAGCACCAGGGCCACT
12178 P	T	S		CGCGCCGAGGACTGTTCCTCGGGCY
12178 P	C	S		ATGACGTGGCAGACGCTGTTCCTCGGGCY
12178 T	T	S		AGAGGCCCGAGGAACAGTGTGGCCCTGGTGCTGGGGATGGGT
12178 T	C	S		AGAGGCCCGAGGAACAGCGTGGCCCTGGTGCTGGGGATGGGT
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12178 IS	[TC]			ACCGGCCCTTGGGGCCTCACCTGGC
12195 I		S		AGAAACTATTGGAGAATATTAAGGTGTTCCCAATGCGGAGACTCC
12195 P	T	S		CGCGCCGAGGACCTGCTGTGCAGAGY
12195 P	A	S		ATGACGTGGCAGACTCCTGCTGTGCAGAGY
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12195 T	A	S		CCTTCTCTGCACAGCAGGAGAGTCTCCGCATTGGGAACACCTTAATATTCTCCAATAGTTTCTTT
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12195 IS	[TA]			TTTCTTTATTTTGATTGAGAT
12212 I		A		GGCTTTCTTCTCACTGGCACCTCCCCTCA
12212 P	T	A		CGCGCCGAGGTCCTCTCGCAGTACATCY
12212 P	C	A		ATGACGTGGCAGACCCCTCTCGCAGTACATY
12212 T	T	A		CCACGATGTACTGCGAGAGGAGAGGGGAGGTGCCAGTGAGAAGAAAGCCCC
12212 T	C	A		CCACGATGTACTGCGAGAGGGGAGGGGAGGTGCCAGTGAGAAGAAAGCCCC
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12212 IS	[TC]			TTGACAGGCCAGGTGCACGAGCT
12268 I		A		GGGGTGGGGCCTCCGGGGT
12268 P	A	A		CGCGCCGAGGACTGCAGGAGAAGGAGY
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12268 T	A	A		GCCTCTCCTTCTCCTGCAGTCCCCGGAGGCCCCACCCCCT
12268 T	G	A		GCCTCTCCTTCTCCTGCAGCCCCCGGAGGCCCCACCCCCT
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12278 I		S		GTGGCCACCCTGTGCTGGTCATCCA
12278 P	G	S		ATGACGTGGCAGACCCTCACTGCCCCTGY
12278 P	A	S		CGCGCCGAGGTCTCACTGCCCCTGY
12278 T	G	S		AGTGCAGGGGCAGTGAGGGGATGACCAGCACAGGGTGGCCACTC
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12278 IS	[GA]			TCCTCTCTCCACTGCAGGCTGCG
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12287 P	T	A		CGCGCCGAGGTTTTTCCTGATAATACGCAATGY
12287 P	C	A		ATGACGTGGCAGACCTTTTCCTGATAATACGCAATGY
12287 T	T	A		TTACCATTGCGTATTATCAGGAAAAAAATACTGTCTATTAAAGAAAAAGAGCTGTACCCTGTGGGTAGGGGC
12287 T	C	A		TTACCATTGCGTATTATCAGGAAAAGAATACTGTCTATTAAAGAAAAAGAGCTGTACCCTGTGGGTAGGGGC
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12287 IS	[TC]			AGAGAAAGTGAGGTCTTCTC
12312 I		S		ACTGAGATGTTTGGCTTTCCTGAGAATCGAAGAACCCT
12312 P	C	S		ATGACGTGGCAGACGCTGGAAAATAGTGATGTCAY
12312 P	T	S		CGCGCCGAGGACTGGAAAATAGTGATGTCATTY
12312 T	C	S		TCAGAATGACATCACTATTTTCCAGCGGGTTCTTCGATTCTCAGGAAAGCCAAACATCTCAGTGA
12312 T	T	S		TCAGAATGACATCACTATTTTCCAGTGGGTTCTTCGATTCTCAGGAAAGCCAAACATCTCAGTGA
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12312 IS	[CT]			ATAATGTGTGCAGTAGACAG
12400 I		S		GACCTAGTGCCTGATCATTCCCTGGAGATACCAT
12400 P	G	S		CGCGCCGAGGCTGACCCCAGGCTTAGY
12400 P	C	S		ATGACGTGGCAGACGTGACCCCAGGCTTAY
12400 T	G	S		TTAGCTAAGCCTGGGGTCAGTGGTATCTCCAGGGAATGATCAGGCACTAGGTCGG
12400 T	C	S		TTAGCTAAGCCTGGGGTCACTGGTATCTCCAGGGAATGATCAGGCACTAGGTCGG
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12418 I		S		CGCATGGCAGAGTCTGGAGCTGGGAT
12418 P	C	S		ATGACGTGGCAGACGAAGCTTAGGGGCCAY
12418 P	T	S		CGCGCCGAGGAAAGCTTAGGGGCCAY
12418 T	C	S		AAGTTGGCCCCTAAGCTTCTCCCAGCTCCAGACTCTGCCATGCGGT
12418 T	T	S		AAGTTGGCCCCTAAGCTTTTCCCAGCTCCAGACTCTGCCATGCGGT
				GAATTGTGACTTCAGCTTTGAAAGCAGCAATTTCAAGGTTCAAAGTTGGCCCCTAAGCTT[CT]TCCCAGCTCCAGACTCTGCCATGCGGTTCACCTTTCCAC
12418 IS	[CT]			CTTTTCTACTGACTTCACCAA
12419 I		S		GGGCGTCCAAGTCCACTGGGCCA
12419 P	G	S		ATGACGTGGCAGACCGCCGTCAATGGCY
12419 P	A	S		CGCGCCGAGGTGCCGTCAATGGCCY
12419 T	G	S		TTGAGGCCATTGACGGCGGGCCCAGTGGACTTGGACGCCCCC
12419 T	A	S		TTGAGGCCATTGACGGCAGGCCCAGTGGACTTGGACGCCCCC
				CACCTCCTTAGTGCATGACTTTGGGTTCAACCTGCCACTGACCTTGAGGCCATTGACGGC[GA]GGCCCAGTGGACTTGGACGCCCCCCCGAGGGATAGCA
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12449 P	C	A		ATGACGTGGCAGACCGCCTTCTCTCCCCY
12449 P	T	A		CGCGCCGAGGTGCCTTCTCTCCCCTY
12449 T	C	A		CCAGAGGGGAGAGAAGGCGTGGAAGCAGCATGTGCTTGGGAGAGAGGCG
12449 T	T	A		CCAGAGGGGAGAGAAGGCATGGAAGCAGCATGTGCTTGGGAGAGAGGCG
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12449 IS	[CT]			TACCTGGAATTCTCCCCTGTGC
12466 I		S		CCCAGTAGTAGTAGAGGCGGGCGGCT
12466 P	C	S		ATGACGTGGCAGACGGAGATGGTCAGGGTGY
12466 P	T	S		CGCGCCGAGGAGAGATGGTCAGGGTGY
12466 T	C	S		ATGTCACCCTGACCATCTCCGCCGCCCGCCTCTACTACTACTGGGAA
12466 T	T	S		ATGTCACCCTGACCATCTCTGCCGCCCGCCTCTACTACTACTGGGAA
				CTGTGTGGCGAAGCTGGCCGAATTCCTGTCTGAGCACCCCAATGTCACCCTGACCATCTC[CT]GCCGCCCGCCTCTACTACTACTGGGAAAGAGATTACCG
12466 IS	[CT]			AAGGGCGCTCTGCAGGCTGAGT
12519 I		A		AGGTCACTGACACCCCTGGGCTCCA
12519 P	C	A		ATGACGTGGCAGACCCTAGCTTCAAAGACCTGY
12519 P	T	A		CGCGCCGAGGTCTAGCTTCAAAGACCTGY
12519 T	C	A		TGTGCAGGTCTTTGAAGCTAGGGGAGCCCAGGGGTGTCAGTGACCTGA
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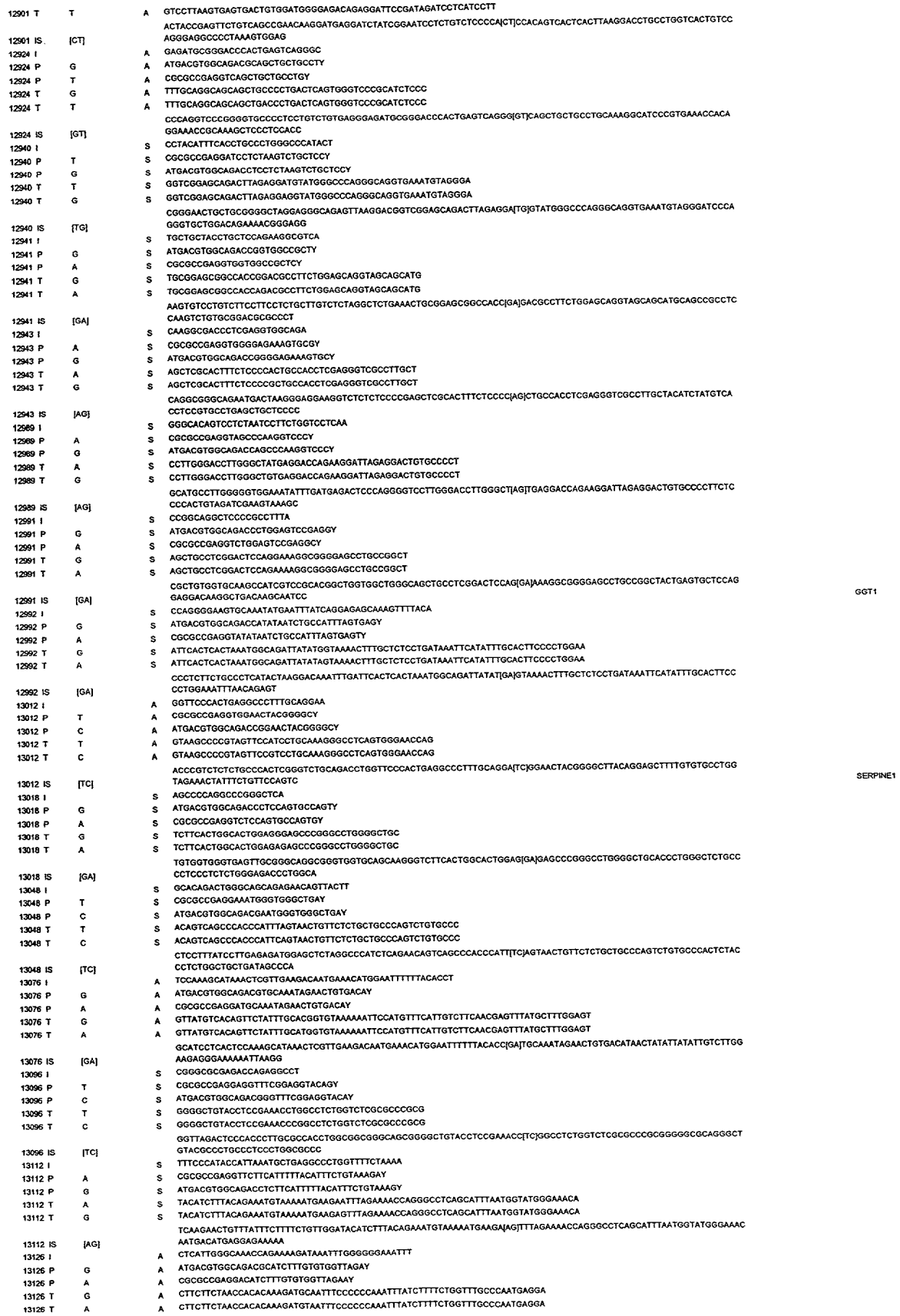
Applied Biosystems

FIGURE 129E



Confidential Information Subject to Protective Order

FIGURE 129E

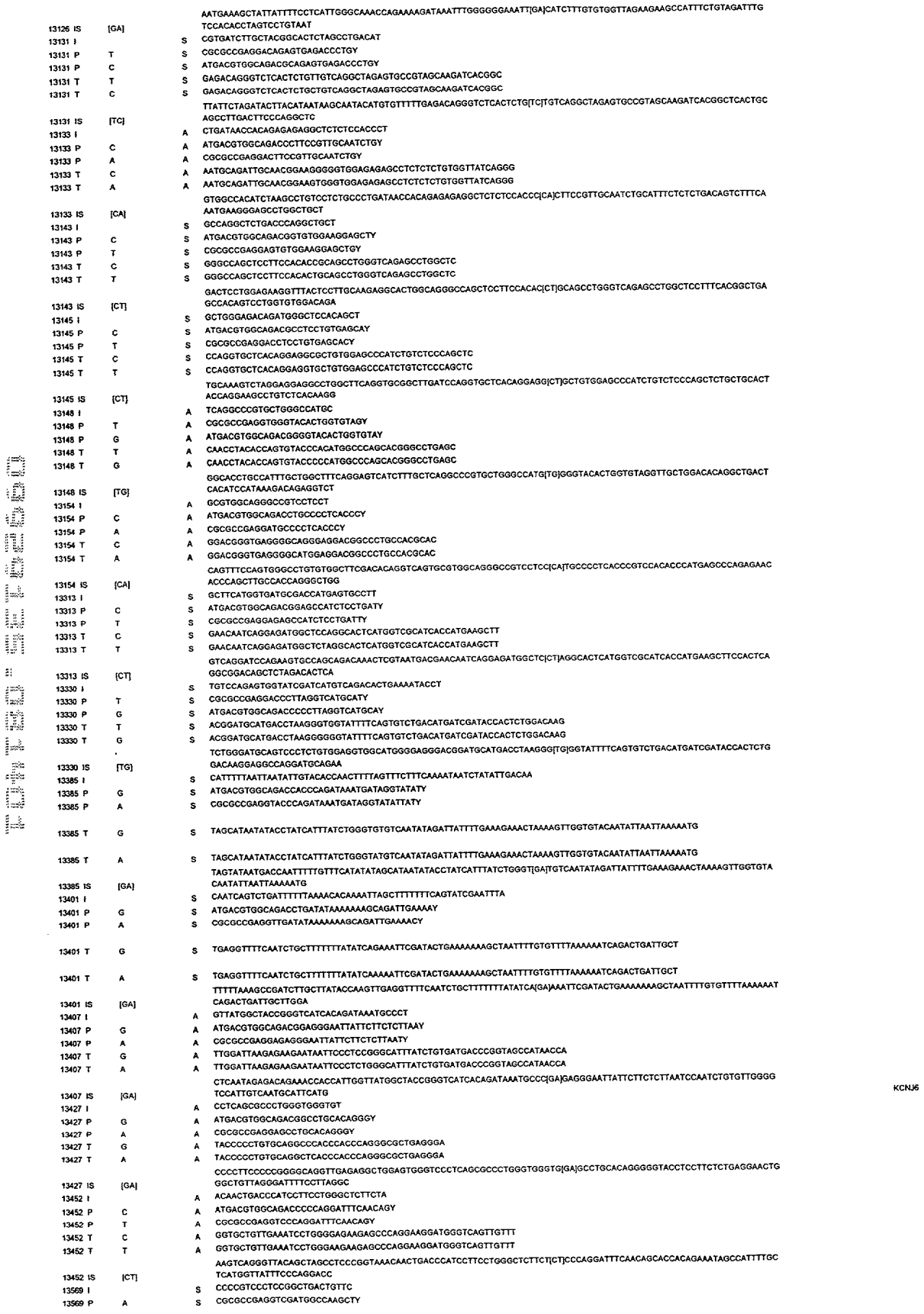


Confidential: Attorney Work Product

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SERPINE1

FIGURE 129E



KCNJ6

Exhibit 1004
IPR2020-00040
U.S. Patent No. 8,778,851

FIGURE 129E

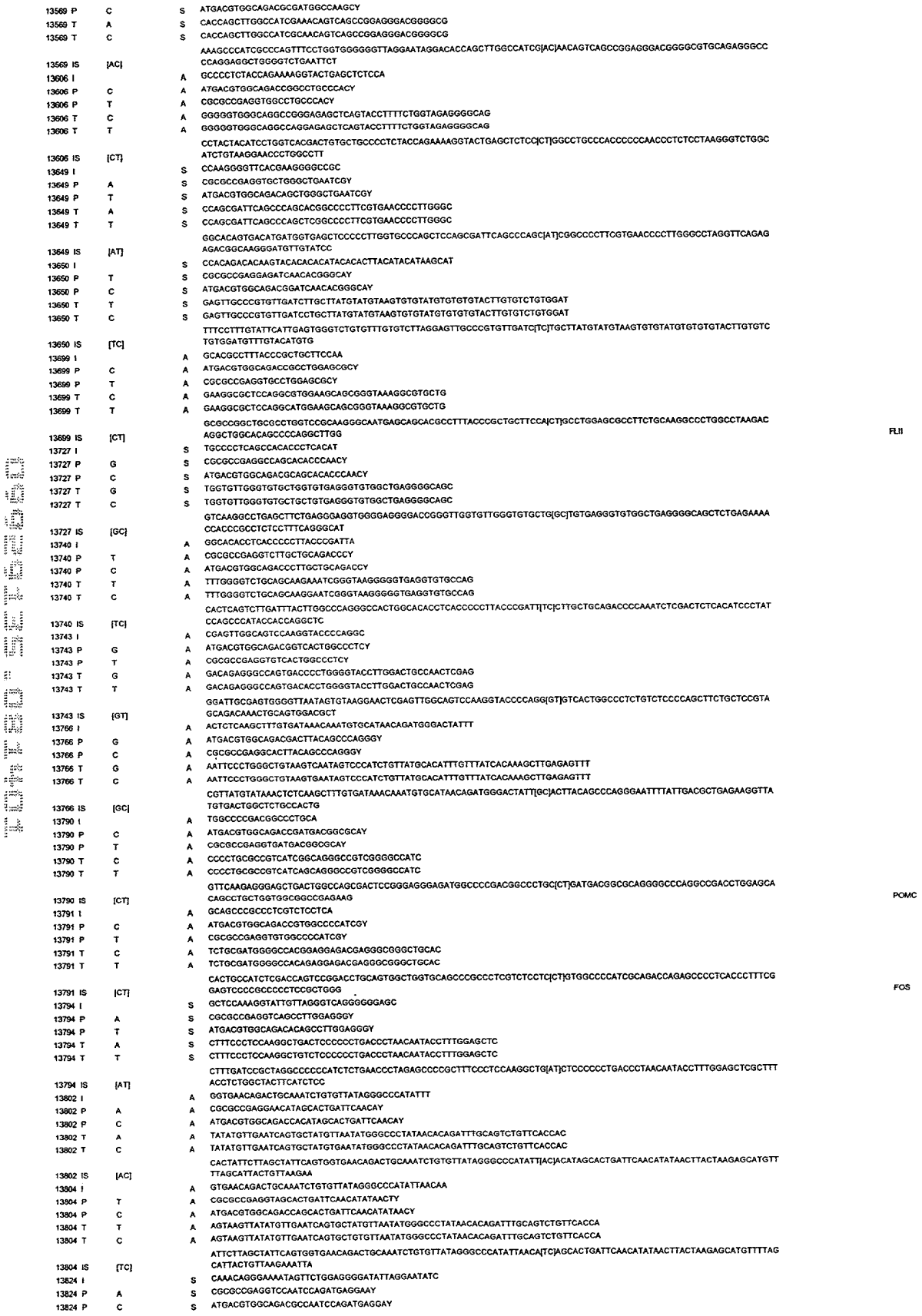

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13650 P T S CGCGCCGAGGAGATCAACACGGGCAY
13650 P C S ATGACGTGGCAGACGGATCAACACGGGCAY
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13699 I A GCACGCCTTTACCCGCTGCTTCCAA
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13743 P T A CGCGCCGAGGTGTCACTGGCCCTCY
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13766 I A ACTCTCAAGCTTTGTGATAAACAAATGTGCATAACAGATGGGACTATTT
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13790 P T A CGCGCCGAGGTGATGACGGCGCAY
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13791 I A GCAGCCCGCCCTCGTCTCCTCA
13791 P C A ATGACGTGGCAGACCGTGGCCCCATCGY
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13802 P C A ATGACGTGGCAGACCACATAGCACTGATTCAACAY
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13804 I A GTGAACAGACTGCAAATCTGTGTTATAGGGCCCATATTAACAA
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13804 T T A AGTAAGTTATATGTTGAATCAGTGCTATGTTAATATGGGCCCTATAACACAGATTTGCAGTCTGTTCACCA
13804 T C A AGTAAGTTATATGTTGAATCAGTGCTGTGTTAATATGGGCCCTATAACACAGATTTGCAGTCTGTTCACCA
13804 IS [TC] ATTCTTAGCTATTCAGTGGTGAACAGACTGCAAATCTGTGTTATAGGGCCCATATTAACA[TC]AGCACTGATTCAACATATAACTTACTAAGAGCATGTTTTAG CATTACTGTTAAGAAATTA
13824 I S CAAACAGGGAAAATAGTTCTGGAGGGGATATTAGGAATATC
13824 P A S CGCGCCGAGGTCCAATCCAGATGAGGAAY
13824 P C S ATGACGTGGCAGACGCCAATCCAGATGAGGAY
FLI1
POMC
FOS

FIGURE 129E

13824 T	A	S	TTGCTTCCTCATCTGGATTGGAATATTCCTAATATCCCCTCCAGAACTATTTTCCCTGTTTGTA		
13824 T	C	S	TTGCTTCCTCATCTGGATTGGCATATTCCTAATATCCCCTCCAGAACTATTTTCCCTGTTTGTA		
13824 IS	[AC]		AGAAAACCAGTTCTGCTGACTGGGTGATTTCACTTCTCTTTGCTTCCTCATCTGGATTGG[AC]ATATTCCTAATATCCCCTCCAGAACTATTTTCCCTGTTTGT ACTAGACTGTGTATATCAT		
13842 I		S	GCGTGGTGGGTGAGCTTTGGAGCAT		
13842 P	T	S	CGCGCCGAGGATCCACGCTGGACTCY		
13842 P	C	S	ATGACGTGGCAGACGTCCACGCTGGACTY		
13842 T	T	S	GAAGGAGTCCAGCGTGGATTGCTCCAAAGCTCACCCACCACGCCC		
13842 T	C	S	GAAGGAGTCCAGCGTGGACTGCTCCAAAGCTCACCCACCACGCCC		
13842 IS	[TC]		GGTGGGAGACGGGGAGGGAGGAGAGAAAGGGAAATTCAGGAGGAAGGAGTCCAGCGTGGA[TC]TGCTCCAAAGCTCACCCACCACGCCCTGACTGCAGG TGTGATTCGGGGCCCCCGTGGCTC		
13847 I		A	GTTTTCATCTCACAAGGATGTTAGTAGAAAGTAAACAGAAGAGTCT		
13847 P	A	A	CGCGCCGAGGATATCTGTTTTCACAGCCCY		
13847 P	G	A	ATGACGTGGCAGACGTATCTGTTTTCACAGCCCY		
13847 T	A	A	AATTGGGCTGTGAAAACAGATATGACTCTTCTGTTTACTTTCTACTAACATCCTTGTGAGATGAAAACAG		
13847 T	G	A	AATTGGGCTGTGAAAACAGATACGACTCTTCTGTTTACTTTCTACTAACATCCTTGTGAGATGAAAACAG		
13847 IS	[AG]		TGCCTCCTTTAAACTGTTTTCATCTCACAAGGATGTTAGTAGAAAGTAAACAGAAGAGTC[AG]TATCTGTTTTCACAGCCCAATTATACAGAAATCCGACAGTA CTGCAATCACTGGCGAAAT		
13864 I		A	TCATTGTTCATAGAAAAAAGTATGCAAAATCGATTTTTTAGATGCAGATATATACTC		
13864 P	T	A	CGCGCCGAGGTGTAAAGGTCACCCAGTY		
13864 P	G	A	ATGACGTGGCAGACGGTAAAGGTCACCCAGTY		
13864 T	T	A	CATGACTGGGTGACCTTTACAAGTATATATCTGCATCTAAAAAATCGATTTTGCATACTTTTTTCTATGAACAATGAGC		
13864 T	G	A	CATGACTGGGTGACCTTTACCAGTATATATCTGCATCTAAAAAATCGATTTTGCATACTTTTTTCTATGAACAATGAGC		
13864 IS	[TG]		TAGCTCATTGTTCATAGAAAAAAGTATGCAAAATCGATTTTTTAGATGCAGATATATACT[TG]GTAAAGGTCACCCAGTCATGGAAGTTTTGTGCCCAGTTTGG ATCTCCATCTGGAGAATAT		
13866 I		A	CCTCCAGCCCGGATGGCTCTCCTA		
13866 P	T	A	CGCGCCGAGGTCATTTTGGTTTGTTTCCTCY		
13866 P	C	A	ATGACGTGGCAGACCCATTTTGGTTTGTTTCCTCY		
13866 T	T	A	ACAAGAGGAAACAAACCAAAATGAAGGAGAGCCATCCGGGCTGGAGGAG		
13866 T	C	A	ACAAGAGGAAACAAACCAAAATGGAGGAGAGCCATCCGGGCTGGAGGAG		
13866 IS	[TC]		TGAAGCCCTCCCCAGATCCCCTTGGAGCCTCTGCCCTCCTCCAGCCCGGATGGCTCTCCT[TC]CATTTTGGTTTGTTTCCTCTTGTTTGTCATCTTATTTTG GGTGCTGGGGTGGCTGCCAGC	CALM3	
13870 I		S	CCTTCAACTCAGCCTGGCTCCCGGGC		
13870 P	C	S	ATGACGTGGCAGACGCTCCTAGCTAGGTGTCY		
13870 P	A	S	CGCGCCGAGGTCTCCTAGCTAGGTGTCY		
13870 T	C	S	ACAGGACACCTAGCTAGGAGCCCCGGGAGCCAGGCTGAGTTGAAGGGG		
13870 T	A	S	ACAGGACACCTAGCTAGGAGACCCGGGAGCCAGGCTGAGTTGAAGGGG		
13870 IS	[CA]		TGGGAGATGGTGAGGCCCAGGGGCCTGTGGGAGGGGTGGAACAGGACACCTAGCTAGGAG[CA]CCCGGGAGCCAGGCTGAGTTGAAGGGGGCTGTGTT GAAGGGGCTAGGGCTCTGGAGGAAG		
13908 I		A	GCAAGTATGATCTTTCGGAAGGAGCCATTTTTCCATGGACT		
13908 P	A	A	CGCGCCGAGGATGACAATTATGATCAGTTGGTY		
13908 P	G	A	ATGACGTGGCAGACGTGACAATTATGATCAGTTGGY		
13908 T	A	A	CCTCACCAACTGATCATAATTGTCATGTCCATGGAAAAATGGCTCCTTCCGAAAGATCATACTTGCCA		
13908 T	G	A	CCTCACCAACTGATCATAATTGTCACGTCCATGGAAAAATGGCTCCTTCCGAAAGATCATACTTGCCA		
13908 IS	[AG]		GGAGTTTGGGTTGTATGCTGGCAAGTATGATCTTTCGGAAGGAGCCATTTTTCCATGGAC[AG]TGACAATTATGATCAGTTGGTGAGGATAGCCAAGGTTCT GGGGACAGAAGATTTATATGG		
13926 I		A	AGGCTCAGGGACCGGCAGTTCTACTCTT		
13926 P	G	A	ATGACGTGGCAGACGGAGCCCACCAGCY		
13926 P	A	A	CGCGCCGAGGAGAGCCCACCAGCY		
13926 T	G	A	AGAGGCTGGTGGGCTCCAGAGTAGAACTGCCGGTCCCTGAGCCTTT		
13926 T	A	A	AGAGGCTGGTGGGCTCTAGAGTAGAACTGCCGGTCCCTGAGCCTTT		
13926 IS	[GA]		TCACTAATGATCCACTTCCTCCTCAGGGAATAAAGGCTCAGGGACCGGCAGTTCTACTCT[GA]GAGCCCACCAGCCTCTCAGAGCCTCCGGTGACTGGCCT GTGTCTCCCCCTGGGTGAGTGC		
13940 I		A	CAGAGAAGTGCAAGTATGGCATGGAGATCCCCT		
13940 P	A	A	CGCGCCGAGGACCAATATCCCCGGCY		
13940 P	C	A	ATGACGTGGCAGACCCCAATATCCCCGGCY		
13940 T	A	A	CCAGGCCGGGGATATTGGTGGGGATCTCCATGCCATACTTGCACTTCTCTGCA		
13940 T	C	A	CCAGGCCGGGGATATTGGGGGGGATCTCCATGCCATACTTGCACTTCTCTGCA		
13940 IS	[AC]		ACTGGCTGCTTTGACCTCCTGCTTGATGCAGAGAAGTGCAAGTATGGCATGGAGATCCCC[AC]CCAATATCCCCGGCCTGGGGGCTGCTGGACGTGAGTA TGAGGCCCCAGCTGCGGTACCTG		
13956 I		S	GCAGCCCTGGCTCCCCTCTTGTT		
13956 P	C	S	ATGACGTGGCAGACGCTTGGTCAAGCTGGY		
13956 P	T	S	CGCGCCGAGGACTTGGTCAAGCTGGAY		
13956 T	C	S	CATTTCCAGCTTGACCAAGCACAAGAGGGGAGCCAGGGCTGCGG		
13956 T	T	S	CATTTCCAGCTTGACCAAGTACAAGAGGGGAGCCAGGGCTGCGG		
13956 IS	[CT]		ACTGAGCAGCTGCTGCCCAGAGCCCAGGCGAGCCCTGGTCCCATTTCCAGCTTGACCAAG[CT]ACAAGAGGGGAGCCAGGGCTGCGGATCCTACTCCCTC TTGCTCCCCAGGCATCCGTCTCA		
13968 I		S	GTGATGCCTCCCCAAGGAGTAGAGATAGAAGAAGCT		
13968 P	C	S	ATGACGTGGCAGACGGCAAAGACAAGGGCAY		
13968 P	T	S	CGCGCCGAGGAGCAAAGACAAGGGCAY		
13968 T	C	S	TCTCTGCCCTTGTCTTTGCCGCTTCTTCTATCTCTACTCCTTGGGGAGGCATCACCC		
13968 T	T	S	TCTCTGCCCTTGTCTTTGCTGCTTCTTCTATCTCTACTCCTTGGGGAGGCATCACCC		
13968 IS	[CT]		GGTGGTATCTGACATCAAGTGTGTGGCATAGTGGTGCTGGGTCTCTGCCCTTGTCTTTGC[CT]GCTTCTTCTATCTCTACTCCTTGGGGAGGCATCACCCA GAAATCTGTGCATGTGGGAGGG		
13971 I		S	CCCGACCTGCATTCCCCGGGGTAAT		
13971 P	T	S	CGCGCCGAGGAGCGAGCTCTGGAGY		
13971 P	C	S	ATGACGTGGCAGACGGCGAGCTCTGGAGY		
13971 T	T	S	CGATCTCCAGAGCTCGCTTTACCCCGGGGAATGCAGGTCGGGGC		
13971 T	C	S	CGATCTCCAGAGCTCGCCTTACCCCGGGGAATGCAGGTCGGGGC		
13971 IS	[TC]		AAGCGGGCGTCGCTCGGACCCAGGACACTACAGTTTCTCTATGCGATCTCCAGAGCTCGC[TC]TTACCCCGGGGAATGCAGGTCGGGGCAGTAGGGAAGC CCCTAGGGATGCAGGGAGGCGGG		
13977 I		S	CCACCCAGAACCCATTCTGGAGAAAGGAAAAAAATGAGAA		
13977 P	A	S	CGCGCCGAGGTAGTAAAATCGTCAGCCTCTY		
13977 P	G	S	ATGACGTGGCAGACCAGTAAAATCGTCAGCCTY		
13977 T	A	S	CTGAAGAGGCTGACGATTTTACTATCTCATTTTTTTCCTTTCTCCAGAATGGGTTCTGGGTGGGT		
13977 T	G	S	CTGAAGAGGCTGACGATTTTACTGTCTCATTTTTTTCCTTTCTCCAGAATGGGTTCTGGGTGGGT		
13977 IS	[AG]		TAATGGGTACTTTCTGACTGAATTTTATGAGCTCATTCTGAAGAGGCTGACGATTTTACT[AG]TCTCATTTTTTTCCTTTCTCCAGAATGGGTTCTGGGTGGG TCCCCTGGGTGGTGGCTCTG		
13993 I		A	CTGAACCAAGCCCCTCGGAGACCATTCTT		
13993 P	A	A	CGCGCCGAGGATCTCATTCCAAGCTGGY		
13993 P	G	A	ATGACGTGGCAGACGTCTCATTCCAAGCTGGY		
13993 T	A	A	CTTGCCAGCTTGGAATGAGATAGAATGGTCTCCGAGGGGCTTGGTTCAGGA		
13993 T	G	A	CTTGCCAGCTTGGAATGAGACAGAATGGTCTCCGAGGGGCTTGGTTCAGGA		
13993 IS	[AG]		GGAAGTCAGGCAGTGGTGTTCATGCTGCCATCCTGAACCAAGCCCCTCGGAGACCATTCT[AG]TCTCATTCCAAGCTGGCAAGCTCCTTCTAAGTGCCCAC CATGGGGCAGGTGCTATGGAGG		
14032 I		A	CAATGACCTTTCCAGAGAATGTTCAGAGACCTCAACTTTGTTTAGAGT		
14032 P	A	A	CGCGCCGAGGATCTTGTGTGGGTGGAY		
14032 P	G	A	ATGACGTGGCAGACGTCTTGTGTGGGTGGAY		
14032 T	A	A	AAGTTCCACCCACACAAGATCTCTAAACAAAGTTGAGGTCTCTGAACATTCTCTGGAAAGGTCATTGAT		

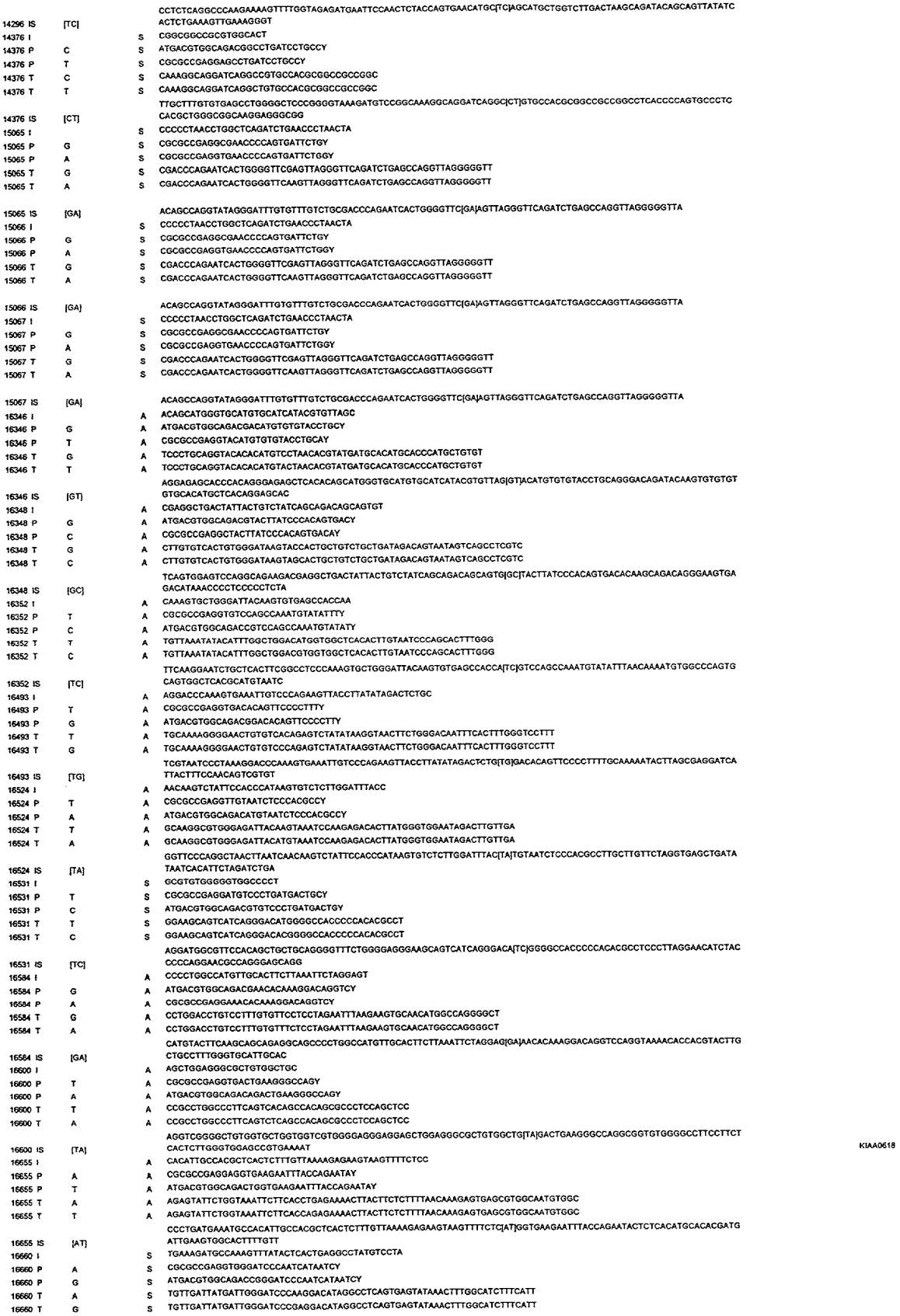
Human Genome Sequencing Center BCM:HGSC

FIGURE 129E

14032 T	G	A	AAGTTCCACCCACACAAGACCTCTAAACAAAGTTGAGGTCTCTGAACATTCTCTGGAAAGGTCATTGAT
14032 IS	[AG]		ATAAATAGGCCATCAATGACCTTTCCAGAGAATGTTCAGAGACCTCAACTTTGTTTAGAG[AG]TCTTGTGTGGGTGGAACTTCCTGTTTGCACACAGAGCAG CATAAAGCCCAGTTGCTTTGG
14058 I		A	CCACTTGCAAGACCCTATCAGAGTTAAGGTTTTTTGTCTTCCTAATAAAC
14058 P	T	A	CGCGCCGAGGTGTAGGCAAACTTGTCAATY
14058 P	G	A	ATGACGTGGCAGACGGTAGGCAAACTTGTCAAY
14058 T	T	A	AGTAATTGACAAGTTTGCCTACATTTATTAGGAAGACAAAAAACCTTAACTCTGATAGGGTCTTGCAAGTGGAG
14058 T	G	A	AGTAATTGACAAGTTTGCCTACCTTTATTAGGAAGACAAAAAACCTTAACTCTGATAGGGTCTTGCAAGTGGAG
14058 IS	[TG]		ACACAATTTCTCCACTTGCAAGACCCTATCAGAGTTAAGGTTTTTTGTCTTCCTAATAAA[TG]GTAGGCAAACTTGTCAATTACTTTAGATAATACCACGAAAA CCTAGAAGTGTCCCAGTCA
14081 I		S	CCCAAGCCGGCCCCATCACCTA
14081 P	A	S	CGCGCCGAGGTGCAAGAAAGGCTCTGY
14081 P	G	S	ATGACGTGGCAGACCGCAAGAAAGGCTCTGY
14081 T	A	S	GCTCCAGAGCCTTTCTTGCAAGGTGATGGGGCCGGCTTGGGGC
14081 T	G	S	GCTCCAGAGCCTTTCTTGCGAGGTGATGGGGCCGGCTTGGGGC
14081 IS	[AG]		ACAGGGACGGTCAACCCTGACCAGGTACTCCAGCCCTGGGGGCTCCAGAGCCTTTCTTGC[AG]AGGTGATGGGGCCGGCTTGGGGCAACACCAGAAGTG TGAAATCAGAGGGCACCTAGTCGA
14083 I		A	CCTTTGCGACCAAAGCTTAAGAAGCTGGATGAGTACTTGT
14083 P	G	A	ATGACGTGGCAGACGTCAAACTCTTCTTCGCAY
14083 P	A	A	CGCGCCGAGGATCAAACTCTTCTTCGCACY
14083 T	G	A	ATAGGTGCGAAGAAGAGTTTGACCAAGTACTCATCCAGCTTCTTAAGCTTTGGTCGCAAAGGAT
14083 T	A	A	ATAGGTGCGAAGAAGAGTTTGATCAAGTACTCATCCAGCTTCTTAAGCTTTGGTCGCAAAGGAT
14083 IS	[GA]		CATTCCTGAGACAATCCGTATCCTTTGCGACCAAAGCTTAAGAAGCTGGATGAGTACTTG[GA]TCAAACTCTTCTTCGCACCTATATTTGATTTTTGTGGTTC TATATTTATTTTCTTTGTAA
14109 I		A	GCTGCAGCTGCTGGCGCGCT
14109 P	G	A	ATGACGTGGCAGACGTGCTCCACACGGCY
14109 P	A	A	CGCGCCGAGGATGCTCCACACGGCY
14109 T	G	A	ACGTGCCGTGTGGAGCACGCGCGCCAGCAGCTGCAGCAG
14109 T	A	A	ACGTGCCGTGTGGAGCATGCGCGCCAGCAGCTGCAGCAG
14109 IS	[GA]		GCCCATCAGGTTGGCCATGCGGTGCAGCAGCCCGGGCACCTGCTGCAGCTGCTGGCGCGC[GA]TGCTCCACACGGCACGTCCAGGCGTGGTCGATGAG GAAGATGCTGCGGGCACAGGCCACA
14146 I		S	GCCTCCTCCCTCCTTCCCTCTTACCCCT
14146 P	C	S	ATGACGTGGCAGACGCCCCAGCACAGAY
14146 P	T	S	CGCGCCGAGGACCCCAGCACAGAGY
14146 T	C	S	CCTGCTCTGTGCTGGGGCGGGGTAAGAGGGAAGGAGGGAGGAGGCAT
14146 T	T	S	CCTGCTCTGTGCTGGGGTGGGGTAAGAGGGAAGGAGGGAGGAGGCAT
14146 IS	[CT]		CAGTGCCATGAGAGGCTGCAATGTAGGCCATGTTTCCTGAGCACCTGCTCTGTGCTGGGG[CT]GGGGTAAGAGGGAAGGAGGGAGGAGGCATAAGACACA CACAGATGGTGGCCACCCATGGA
14181 I		A	GCCTTGCTTACTCCTGAAGTCGAGAGGCTTACTA
14181 P	T	A	CGCGCCGAGGTCCTGGAATCCAAGTGGY
14181 P	C	A	ATGACGTGGCAGACCCCTGGAATCCAAGTGY
14181 T	T	A	ACATCCACTTGGATTCCAGGAAGTAAGCCTCTCGACTTCAGGAGTAAGCAAGGCCA
14181 T	C	A	ACATCCACTTGGATTCCAGGGAGTAAGCCTCTCGACTTCAGGAGTAAGCAAGGCCA
14181 IS	[TC]		AAGCAACAGGCTCAAACCAAACGGTTGGCCTTGCTTACTCCTGAAGTCGAGAGGCTTACT[TC]CCTGGAATCCAAGTGGATGTGGAGCCCATGGCGTCCTC TGGCGCTCTCGGTCTCTTCGAC
14229 I		S	GACATGTTCCCGGCGTTGCGTCGAGA
14229 P	A	S	CGCGCCGAGGTGTTTCTGCTTGTGGGY
14229 P	G	S	ATGACGTGGCAGACCGTTTCTGCTTGTGGGY
14229 T	A	S	TACCCCCACAAGCAGAAACACTCGACGCAACGCCGGGAACATGTCTT
14229 T	G	S	TACCCCCACAAGCAGAAACGCTCGACGCAACGCCGGGAACATGTCTT
14229 IS	[AG]		TATTGTCCCAAGCACCGACAGCACCGCTGCAGGGACCCCTCTACCCCCACAAGCAGAAAC[AG]CTCGACGCAACGCCGGGAACATGTCTTTATTAAAGATG CAAGCAAGCACAGAAGGATCAT
14248 I		S	GTGCCCACCCCTCCAGGCCCT
14248 P	T	S	CGCGCCGAGGACCCTCCCCAGCCY
14248 P	C	S	ATGACGTGGCAGACGCCCTCCCCAGCY
14248 T	T	S	CCTGGGCTGGGGAGGGTGGGCCTGGAGGGGTGGGCACGG
14248 T	C	S	CCTGGGCTGGGGAGGGCGGGCCTGGAGGGGTGGGCACGG
14248 IS	[TC]		CCTCCCTCTGCAGAAATCCAGAGATGGAGGTGCCCACCTGCTGGCCTGGGCTGGGGAGGG[TC]GGGCCTGGAGGGGTGGGCACGGGAGGTGAGGGCT GGCTGGGCTGAGAGCCCTGGGATGG
14250 I		S	CGCACAGTCAGTGCATCCTGAACATGTGGGC
14250 P	C	S	ATGACGTGGCAGACGCAGCGCCTGAGTY
14250 P	A	S	CGCGCCGAGGTCAGCGCCTGAGTTY
14250 T	C	S	CCAGAACTCAGGCGCTGCCCCACATGTTCAGGATGCACTGACTGTGCGCT
14250 T	A	S	CCAGAACTCAGGCGCTGACCCACATGTTCAGGATGCACTGACTGTGCGCT
14250 IS	[CA]		TGGCCGGGACCGCCCTATTATCAGTGAGGGGCTTAATTCATTTCCAGAACTCAGGCGCTG[CA]CCCACATGTTCAGGATGCACTGACTGTGCGCTGCTCAC ACATTCAGAGGGAGACGAGACC
14269 I		A	GCGGTGGGGCTGGAGGAGCTTGA
14269 P	C	A	ATGACGTGGCAGACCGATGCTGCTCCAGTY
14269 P	T	A	CGCGCCGAGGTGATGCTGCTCCAGTY
14269 T	C	A	AGGCACTGGAGCAGCATCGCAAGCTCCTCCAGCCCCACCGCGG
14269 T	T	A	AGGCACTGGAGCAGCATCACAAGCTCCTCCAGCCCCACCGCGG
14269 IS	[CT]		CCTTGGCTCTCTCATCCAACCGTGAGATGTCCTCATCCGCGGTGGGGCTGGAGGAGCTTG[CT]GATGCTGCTCCAGTGCCTTGTGCGTGTTGGGACCACT CCGCATCCTGCCAAGTCGATGGC
14272 I		S	CAGGTTATTCCCCGTGCACGATTGCATGACTT
14272 P	T	S	CGCGCCGAGGATGGCCTCTGCTGGY
14272 P	C	S	ATGACGTGGCAGACGTGGCCTCTGCTGGY
14272 T	T	S	TTCACCAGCAGAGGCCATAGTCATGCAATCGTGCACGGGGAATAACCTGGG
14272 T	C	S	TTCACCAGCAGAGGCCACAGTCATGCAATCGTGCACGGGGAATAACCTGGG
14272 IS	[TC]		TTGTAGCTGAAATGGCTCATTCCAGACTTGAACACCACATTCTTTCACCAGCAGAGGCCA[TC]AGTCATGCAATCGTGCACGGGGAATAACCTGGGAAGCAA GAGACCCTCCACCCGGTGTTG
14280 I		A	GGTTGCTGGAAAATTTGAATGAAATGATGGATGTGAAAGAAATTAGAACCCT
14280 P	G	A	ATGACGTGGCAGACGGCATAGCACCATCCY
14280 P	A	A	CGCGCCGAGGAGCATAGCACCATCCAY
14280 T	G	A	TTTTTGGATGGTGCTATGCCGGGTTCTAATTTCTTTCACATCCATCATTTCATTCAAATTTTCCAGCAACCCT
14280 T	A	A	TTTTTGGATGGTGCTATGCTGGGTTCTAATTTCTTTCACATCCATCATTTCATTCAAATTTTCCAGCAACCCT
14280 IS	[GA]		CAATATTAGGGTTGCTGGAAAATTTGAATGAAATGATGGATGTGAAAGAAATTAGAACCC[GA]GCATAGCACCATCCAAAAAAGTACAGTTTTATTATTATTCA TCATCTGAGCTGTTACACA
14283 I		A	CAGATCCACGAGATACATATAGTTTCTTATCTAGAAAAGAAGAAGAAAACATTATTT
14283 P	G	A	ATGACGTGGCAGACGGAACTGAAATTTCTAGGACTAY
14283 P	A	A	CGCGCCGAGGAGAACTGAAATTTCTAGGACTAGY
14283 T	G	A	TAACCTAGTCCTAGAAATTTCAGTTCCAATAATGTTTTCTTCTTCTTTTCTAGATAAGAAACTATATGTATCTCGTGGATCTGCC
14283 T	A	A	TAACCTAGTCCTAGAAATTTCAGTTCTAATAATGTTTTCTTCTTCTTTTCTAGATAAGAAACTATATGTATCTCGTGGATCTGCC
14283 IS	[GA]		CTGGCAGATCCACGAGATACATATAGTTTCTTATCTAGAAAAGAAGAAGAAAACATTATT[GA]GAACTGAAATTTCTAGGACTAGGTTAGAGAGTGCCCAGTA GCATTCCAGGGGCCCCACAT
14296 I		A	GGTAGAGATGAATTCCAACTCTACCAGTGAACATGCA
14296 P	T	A	CGCGCCGAGGTAGCATGCTGGTCTTGAY
14296 P	C	A	ATGACGTGGCAGACCAGCATGCTGGTCTTGY
14296 T	T	A	TTAGTCAAGACCAGCATGCTAGCATGTTCACTGGTAGAGTTGGAATTCATCTCTACCAA
14296 T	C	A	TTAGTCAAGACCAGCATGCTGGCATGTTCACTGGTAGAGTTGGAATTCATCTCTACCAA

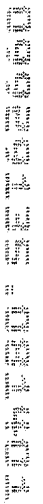
Confidential Treatment Requested

FIGURE 129E



KIAA0618

FIGURE 129E



				TTCTCAGAGTATCTTCAAGATGAGGAATATATCCAAGCTGTTGATTATGATTGGGATCCC[AG]AGGACATAGGCCTCAGTGAGTATAAACTTTGGCATCTTTC
16660	IS	[AG]		ATTGATATTAAGTGACTTTA
16769	I		S	GCAGGGAAACAGACAAACCTCTGCCTCCCA
16769	P	A	S	CGCGCCGAGGTTCTCCAGGTTTGTGGTY
16769	P	G	S	ATGACGTGGCAGACCTCTCCAGGTTTGTGGTY
16769	T	A	S	TGAGACCACAAACCTGGAGAAGGGAGGCAGAGGTTTGTCTGTTTCCCTGCAC
16769	T	G	S	TGAGACCACAAACCTGGAGAGGGGAGGCAGAGGTTTGTCTGTTTCCCTGCAC
				GCAGGGTACAAGGGAGTGCGAGAGGGATAATGGCTTCTGGTGAGACCACAAACCTGGAGA[AG]GGGAGGCAGAGGTTTGTCTGTTTCCCTGCACTCTGTC
16769	IS	[AG]		CCACAGACCTGGTGACTGATGAG
16770	I		A	AGCCCATGGGGCCTGGGGGA
16770	P	C	A	ATGACGTGGCAGACCAGTGCAGGCCCCY
16770	P	T	A	CGCGCCGAGGTAGTGCAGGCCCCY
16770	T	C	A	CTCTGGGGCCTGCACTGCCCCCAGGCCCCATGGGCTGG
16770	T	T	A	CTCTGGGGCCTGCACTACCCCCAGGCCCCATGGGCTGG
				GAGAGGGCAGCGCTCCCCAGCTCCCTGGCTCCCCACCTGCCAGCCCATGGGGCCTGGGGG[CT]AGTGCAGGCCCCAGAGAGACCAAGTGCAAAGGAGTA
16770	IS	[CT]		CAGCTCATTGCCTCTCCTTCCTCC
16838	I		S	CCAGCCCTGAGGTTCTGGCAAAAATCTCCTCT
16838	P	C	S	ATGACGTGGCAGACGGAACACGTGAGTTGGY
16838	P	T	S	CGCGCCGAGGAGAACACGTGAGTTGGTY
16838	T	C	S	GGGCACCAACTCACGTGTTCCGAGGAGATTTTTGCCAGAACCTCAGGGCTGGGT
16838	T	T	S	GGGCACCAACTCACGTGTTCTGAGGAGATTTTTGCCAGAACCTCAGGGCTGGGT
				AGCCTGGGGGCTCAGCCAGGAGAGGGAGCTGCTGGCTGGCGGGCACCAACTCACGTGTTC[CT]GAGGAGATTTTTGCCAGAACCTCAGGGCTGGGTGTG
16838	IS	[CT]		CCCACCACTTCCATGATGCGCTTC
16916	I		S	CGTCGCACTACTGTTTGCTTTCTGCAGGTCAA
16916	P	A	S	CGCGCCGAGGTACTGGACCCTTTGTAATCTY
16916	P	G	S	ATGACGTGGCAGACCACTGGACCCTTTGTAATCY
16916	T	A	S	CGCGAGATTACAAAGGGTCCAGTATGACCTGCAGAAAGCAAACAGTAGTGCGACGGA
16916	T	G	S	CGCGAGATTACAAAGGGTCCAGTGTGACCTGCAGAAAGCAAACAGTAGTGCGACGGA
				AAGAAACAAATGACCGGAAATGCCTGGAAGATGAAAACGCGAGATTACAAAGGGTCCAGT[AG]TGACCTGCAGAAAGCAAACAGTAGTGCGACGGAGACAA
16916	IS	[AG]		TAAACAAACTGAAGGTTCAGGA
16926	I		S	ACTTAAAAACTCATGAAACAAATCATTTAGAAGTAGAAACTCTCACAACATA
16926	P	A	S	CGCGCCGAGGTAAATCATTACAAAGGCATTGTGY
16926	P	G	S	ATGACGTGGCAGACCAAATCATTACAAAGGCATTGTY
16926	T	A	S	ATTTCACAATGCCTTTGTAATGATTTAATGTTGTGAGAGTTTCTACTTCTAAATGATTTGTTTCATGAGTTTTTAAGTTG
16926	T	G	S	ATTTCACAATGCCTTTGTAATGATTTGATGTTGTGAGAGTTTCTACTTCTAAATGATTTGTTTCATGAGTTTTTAAGTTG
				ATGTTACAAATTGTAAGTAAATATTTCTAAAGACATTTCACAATGCCTTTGTAATGATTT[AG]ATGTTGTGAGAGTTTCTACTTCTAAATGATTTGTTTCATGAG
16926	IS	[AG]		TTTTTAAGTTGCTGTTGG
16937	I		S	GGGCCTCCTTGCCCCCTGCTCA
16937	P	G	S	ATGACGTGGCAGACCGGAGCCCACCCY
16937	P	A	S	CGCGCCGAGGTGGAGCCCACCCTY
16937	T	G	S	GGTCAGGGTGGGCTCCGGAGCAGGGGGCAAGGAGGCCCCA
16937	T	A	S	GGTCAGGGTGGGCTCCAGAGCAGGGGGCAAGGAGGCCCCA
				TGACTGAGCCCTCCTTGGGCCAGGTCCTGTGGGAAGCGTCCCCCGGTCAGGGTGGGCTCC[GA]GAGCAGGGGGCAAGGAGGCCCCAGGACTCTCTCTG
16937	IS	[GA]		GCCGGGCAGATTCCCAGGAGGATGG
16969	I		S	GGGAGCAGGAGAGTCTCTCAGGCAGGAT
16969	P	C	S	ATGACGTGGCAGACGCCACGCCCCCY
16969	P	T	S	CGCGCCGAGGACCACGCCCCCY
16969	T	C	S	CCGGGGGGGGCGTGGCTCCTGCCTGAGAGACTCTCCTGCTCCCAG
16969	T	T	S	CCGGGGGGGGCGTGGTTCCTGCCTGAGAGACTCTCCTGCTCCCAG
				GACCGGCCGAGTGGAAGACTGGCGTGCACACGTGTGTCTGTGGGTGCCGGGGGGGCGTGG[CT]TCCTGCCTGAGAGACTCTCCTGCTCCCAGTGCCCTT
16969	IS	[CT]		CCTGGTGGCCCTGGCGCTCCTGAG
16980	I		A	CAGTCCCAGTCCAGCAGTTAGCCCAGGT
16980	P	C	A	CGCGCCGAGGCCTGGAGGATCTTGGCY
16980	P	G	A	ATGACGTGGCAGACGCTGGAGGATCTTGGCY
16980	T	C	A	TTTTGCCAAGATCCTCCAGGCCTGGGCTAACTGCTGGACTGGGACTGGG
16980	T	G	A	TTTTGCCAAGATCCTCCAGCCCTGGGCTAACTGCTGGACTGGGACTGGG
				CTGTGATCCAGCCTCTCCCCAGTCCCATCTCCCCAGTCCCAGTCCAGCAGTTAGCCCAGG[CG]CTGGAGGATCTTGGCAAAAGGGGAACACTCAGCCTGG
16980	IS	[CG]		GTATCTAAAGCTTGACCATCCCC
17036	I		S	CTCAAAGGCTCTCTGCACCCCTCTAGCCT
17036	P	T	S	CGCGCCGAGGATCCAGAAAGGGATGTGTY
17036	P	C	S	ATGACGTGGCAGACGTCCAGAAAGGGATGTGY
17036	T	T	S	AGAGACACATCCCTTTCTGGATGGCTAGAGGGGTGCAGAGAGCCTTTGAGGG
17036	T	C	S	AGAGACACATCCCTTTCTGGACGGCTAGAGGGGTGCAGAGAGCCTTTGAGGG
				ACTCTGGCTTCATGGCTATGGTCAAGAATTTTGTGGCCAAGAGACACATCCCTTTCTGGA[TC]GGCTAGAGGGGTGCAGAGAGCCTTTGAGGGCACAACTC
17036	IS	[TC]		TGGCCATGACCAATGGTGCCTG
17194	I		A	TGGCCTCCTGCAAGCCCCAACCT
17194	P	G	A	ATGACGTGGCAGACGAAGATAGCTACATGGACCY
17194	P	A	A	CGCGCCGAGGAAAGATAGCTACATGGACCAY
17194	T	G	A	TCCATGGTCCATGTAGCTATCTTCGGTTGGGGCTTGCAGGAGGCCAAG
17194	T	A	A	TCCATGGTCCATGTAGCTATCTTTGGTTGGGGCTTGCAGGAGGCCAAG
				CTCACTTTTGCAGATGGGACTAGGACCAGGTAGAAGCTTGGCCTCCTGCAAGCCCCAACC[GA]AAGATAGCTACATGGACCATGGATCCCACCCAGGTCTC
17194	IS	[GA]		TCCCAAGCCAGAGCAGAAGATG
17220	I		S	AGAGTGCCTCTGTTCCCGCCAGGGT
17220	P	G	S	CGCGCCGAGGCACACCCTTATCTCCTAATCY
17220	P	C	S	ATGACGTGGCAGACGACACCCTTATCTCCTAATCY
17220	T	G	S	ATATGATTAGGAGATAAGGGTGTGCCCTGGCGGGAACAGAGGCACTCTAC
17220	T	C	S	ATATGATTAGGAGATAAGGGTGTCCCCTGGCGGGAACAGAGGCACTCTAC
				GAGGGAGCAGCCAGGTGGAGCGGGATGGAAGCTGCGTATATGATTAGGAGATAAGGGTGT[GC]CCCTGGCGGGAACAGAGGCACTCTACCGGGCTCTGA
17220	IS	[GC]		GGGGCTGTCTCTGGACCCAGTGCA
17251	I		A	GCCCGCCTTTTGTTCCTAGGACTCGGTT
17251	P	A	A	CGCGCCGAGGACCTTTCTGAACCCAGTY
17251	P	G	A	ATGACGTGGCAGACGCCTTTCTGAACCCAGY
17251	T	A	A	TTAGACTGGGTTCAGAAAGGTACCGAGTCCTAGGAACAAAAGGCGGGCGC
17251	T	G	A	TTAGACTGGGTTCAGAAAGGCACCGAGTCCTAGGAACAAAAGGCGGGCGC
				ATTCAGCCCCTGTGTCTTCCTGGAGGGCCCTGCGCCCGCCTTTTGTTCCTAGGACTCGGT[AG]CCTTTCTGAACCCAGTCTAAAAATTGCCGCAGCTCTTTC
17251	IS	[AG]		TGGCGTTAGTCACTGCCTGGT
17277	I		S	CCACCGCTGCCTCCACTGCCTTGC
17277	P	A	S	CGCGCCGAGGTCTCGGCTCTGGGAY
17277	P	C	S	ATGACGTGGCAGACGCTCGGCTCTGGGY
17277	T	A	S	CCTCTCCCAGAGCCGAGACAAGGCAGTGGAGGCAGCGGTGGCA
17277	T	C	S	CCTCTCCCAGAGCCGAGCCAAGGCAGTGGAGGCAGCGGTGGCA
				GGCCCCGCCCCCTCCCATCACCCCGGGCTGCCAGCGCCTGTCACCTCTCCCAGAGCCGAG[AC]CAAGGCAGTGGAGGCAGCGGTGGCAGGGGCTGCAG
17277	IS	[AC]		GAGCAAGTGACCAGGAGCAGGACTG
17433	I		S	GGGGTGCCGAAAATTGCTGCCATTTGTCAATT
17433	P	T	S	CGCGCCGAGGAGTGTCTTGCCTGTAAAATY
17433	P	C	S	ATGACGTGGCAGACGGTGTCTTGCCTGTAAAAY
17433	T	T	S	TGAGATTTTACAGGCAAGACACTATTGACAAATGGCAGCAATTTTCGGCACCCCAG
17433	T	C	S	TGAGATTTTACAGGCAAGACACCATTGACAAATGGCAGCAATTTTCGGCACCCCAG

DSP

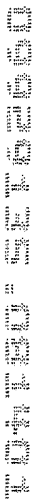
APOL5

FIGURE 129E

				CTACATATTGAGCAGCCTGAGACTTGATTTATTAACGATGAGATTTTACAGGCAAGACAC[TC]ATTGACAAATGGCAGCAATTTTCGGCACCCCAGATCAATA
17433	IS	[TC]		CCCTTTAATCGAGTCAAATC
17465	I		S	GTAACTGAAGCAAGATCAAGACATCAATCTTGCTCAAAGTCTGATTATCAATTTT
17465	P	C	S	ATGACGTGGCAGACGCCAGCCACCATTTGY
17465	P	T	S	CGCGCCGAGGACCAGCCACCATTTGY
17465	T	C	S	ATAGCAAATGGTGGCTGGCAAATTGATAATCAGACTTTGAGCAAGATTGATGTCTTGATCTTGCTTCAGTTACCT
17465	T	T	S	ATAGCAAATGGTGGCTGGTAAATTGATAATCAGACTTTGAGCAAGATTGATGTCTTGATCTTGCTTCAGTTACCT
				CCTGGTCTGTCAAGCAGCTGAATCCCAGTGTGTCTTAATAAAATAGCAAATGGTGGCTGG[CT]AAATTGATAATCAGACTTTGAGCAAGATTGATGTCTTGAT
17465	IS	[CT]		CTTGCTTCAGTTACCTGCAC
17496	I		A	TGGTTAACCGCCAGGATGCCATGCTGTAAT
17496	P	A	A	CGCGCCGAGGAGGAGCATTCAAGGAGTAY
17496	P	C	A	ATGACGTGGCAGACCGGAGCATTCAAGGAGY
17496	T	A	A	CTTGTACTCCTTGAATGCTCCTTTACAGCATGGCATCCTGGCGGTTAACCATC
17496	T	C	A	CTTGTACTCCTTGAATGCTCCGTTACAGCATGGCATCCTGGCGGTTAACCATC
				ATTTCACCAAAACCCAAAGTCTTCCTGATGATGGTTAACCGCCAGGATGCCATGCTGTAA[AC]GGAGCATTCAAGGAGTACAAGTTCAGGTTTAGTCCTTTCT
17496	IS	[AC]		CCATCATTTGCTGTGTAAGT
17556	I		A	CCACCATCTTCTTCGACGTCCCTCCCTA
17556	P	T	A	CGCGCCGAGGTGTATTGGCCATCAGAAATY
17556	P	C	A	ATGACGTGGCAGACCGTATTGGCCATCAGAAAY
17556	T	T	A	TGGGATTTCTGATGGCCAATACAAGGGAGGGACGTCGAAGAAGATGGTGGCA
17556	T	C	A	TGGGATTTCTGATGGCCAATACGAGGGAGGGACGTCGAAGAAGATGGTGGCA
				CCTAGGGAGCCAATGTAGGGTCCCCTGAGGATGCCACCATCTTCTTCGACGTCCCTCCCT[TC]GTATTGGCCATCAGAAATCCCACTCCACACTCCAGCTC
17556	IS	[TC]		CCAGGAGTCTGCAGGGCCCTCA
17582	I		A	CAAGCGGACGATCTTCACCGATTCCTCATCAAAATCA
17582	P	C	A	ATGACGTGGCAGACCTCATCGATATTGTCAGGCY
17582	P	T	A	CGCGCCGAGGTTCATCGATATTGTCAGGCY
17582	T	C	A	CTCTGCCTGACAATATCGATGAGGATTTTGATGAGGAATCGGTGAAGATCGTCCGCTTGGT
17582	T	T	A	CTCTGCCTGACAATATCGATGAAGATTTTGATGAGGAATCGGTGAAGATCGTCCGCTTGGT
				TACCAGGGGTTCCTTGTTCTTCACCAAGCGGACGATCTTCACCGATTCCTCATCAAAATC[CT]TCATCGATATTGTCAGGCAGAGGCGGGAGAACGGGGTC
17582	IS	[CT]		AAAATTCTTCTGGGCAACCGTG
17597	I		A	CCAGTGGGCGTATCCCAAGATGAAGAATTTTGGAATACATAA
17597	P	C	A	ATGACGTGGCAGACCGAGGGTCTGCAAGAY
17597	P	T	A	CGCGCCGAGGTGAGGGTCTGCAAGAAY
17597	T	C	A	GCTGTTCTTGCAGACCCTCGTATGTATTCCAAAATTCTTCATCTTGGGATACGCCCACTGGTT
17597	T	T	A	GCTGTTCTTGCAGACCCTCATATGTATTCCAAAATTCTTCATCTTGGGATACGCCCACTGGTT
				GAAGCCAACAGAGTCCCAACCAGTGGGCGTATCCCAAGATGAAGAATTTTGGAATACATA[CT]GAGGGTCTGCAAGAACAGCTCAGCAGGAATACTCATAAA
17597	IS	[CT]		GAGACTGAGCCTGTGTATGAG
17661	I		S	CCACTCCTGGCCCACAGCCCCT
17661	P	T	S	CGCGCCGAGGAGAGAGCCTGTCTGTGY
17661	P	C	S	ATGACGTGGCAGACGGAGAGCCTGTCTGTGY
17661	T	T	S	GATGCACAGACAGGCTCTCTGGGGCTGTGGGCCAGGAGTGGGA
17661	T	C	S	GATGCACAGACAGGCTCTCCGGGGCTGTGGGCCAGGAGTGGGA
				CAAGAGAGGCCCTTGCGGAGGCCCAGCAAAGAGTGGTTCAGGATGCACAGACAGGCTCTC[TC]GGGGCTGTGGGCCAGGAGTGGGAAAGCCACCTTAGT
17661	IS	[TC]		CCTGCTGGAGCAGATTTGGGAAGG
17675	I		S	CCAGCAGACTATCAGATGCACACTGTCATCTTCTCCT
17675	P	T	S	CGCGCCGAGGATCTGGACACATCTGTCCY
17675	P	C	S	ATGACGTGGCAGACGTCTGGACACATCTGTCY
17675	T	T	S	ATGGGGACAGATGTGTCCAGATGGAGAAGATGACAGTGTGCATCTGATAGTCTGCTGGAG
17675	T	C	S	ATGGGGACAGATGTGTCCAGACGGAGAAGATGACAGTGTGCATCTGATAGTCTGCTGGAG
				TCTGAAGAAAGGGAAATGGCCTGTGGGTGTGCAAGGCTGATGGGGACAGATGTGTCCAGA[TC]GGAGAAGATGACAGTGTGCATCTGATAGTCTGCTGGA
17675	IS	[TC]		GGAAGAGGGGGACACTTACTCTC
17679	I		A	CTGCATACTGGAACTGTGTTGTTCTCTGGTCATTCTGAAAT
17679	P	G	A	ATGACGTGGCAGCGGCAGAAGTTAGCTCTCTY
17679	P	A	A	CGCGCCGAGGAGCAGAAGTTAGCTCTCTAY
17679	T	G	A	GATGTAGAGAGCTAACTTCTGCCTTTCAGAATGACCAGAGAACAACACAGTTCCAGTATGCAGTA
17679	T	A	A	GATGTAGAGAGCTAACTTCTGCTTTTCAGAATGACCAGAGAACAACACAGTTCCAGTATGCAGTA
				TTTTTTATACAAAAGCCATACTGCATACTGGAACTGTGTTGTTCTCTGGTCATTCTGAAA[GA]GCAGAAGTTAGCTCTCTACATCTCCTTGGACCCTGCTTTTC
17679	IS	[GA]		TTGGGAGAGGAGAAGGCAA
17714	I		S	CAGAAAAACTCCATTTGGTTTTGAAACTCACTTTGTTTTCCTCTCTTCTCT
17714	P	T	S	CGCGCCGAGGATTTGTTTCACACAGTCGCY
17714	P	G	S	ATGACGTGGCAGACCTTTGTTTCACACAGTCGY
17714	T	T	S	GATGGCGACTGTGTGAAACAAATGAGAAGAGAGGAAAACAAAGTGAGTTTCAAAACCAAATGGAGTTTTTCTGTT
17714	T	G	S	GATGGCGACTGTGTGAAACAAAGGAGAAGAGAGGAAAACAAAGTGAGTTTCAAAACCAAATGGAGTTTTTCTGTT
				AGACCAGCTCCACTGACAAAATAGTCGTCTTTCAGAAGGATGGCGACTGTGTGAAACAAA[TG]GAGAAGAGAGGAAAACAAAGTGAGTTTCAAAACCAAATG
17714	IS	[TG]		GAGTTTTTCTGTTACTTCTAA
17814	I		S	CAACACAGGTGGGTTCTGCTCTAGGCGAC
17814	P	A	S	CGCGCCGAGGTTGTTTCAGGGCTAAATAGCY
17814	P	C	S	ATGACGTGGCAGACGTGTTTCAGGGCTAAATAGCY
17814	T	A	S	GGCAGCTATTTAGCCCTGAAACAATCGCCTAGAGCAGAACCCACCTGTGTTGGA
17814	T	C	S	GGCAGCTATTTAGCCCTGAAACACTCGCCTAGAGCAGAACCCACCTGTGTTGGA
				GGGTTTGGGTGGTATCCACATAACAGAATGCTGACTGGGCAGCTATTTAGCCCTGAAACA[AC]TCGCCTAGAGCAGAACCCACCTGTGTTGGATGGAGTAA
17814	IS	[AC]		AGCCTGGCAAGGAGGGGCTGTT
17819	I		A	CCAAGGCCCAGAGAGGGGAAGGGACT
17819	P	A	A	CGCGCCGAGGATCAAGCGATATCACTGGY
17819	P	C	A	ATGACGTGGCAGACCTCAAGCGATATCACTGGY
17819	T	A	A	CAGCCCAGTGATATCGCTTGATGTCCCTTCCCCTCTCTGGGCCTTGGTG
17819	T	C	A	CAGCCCAGTGATATCGCTTGAGGTCCCTTCCCCTCTCTGGGCCTTGGTG
				ATTTCTACTTCCACGCACACATAGAGAAGGGGACACCAAGGCCCAGAGAGGGGAAGGGAC[AC]TCAAGCGATATCACTGGGCTGGGCAGCGGCCCCCCAG
17819	IS	[AC]		CTCCTGGCTTCTGGGAGAGGAGA
17821	I		S	GGCTGGATGAAGTACTCGCCATCTCTTGCTTTGT
17821	P	T	S	CGCGCCGAGGACAGGGCTTTCCTAACTY
17821	P	C	S	ATGACGTGGCAGACGCAGGGCTTTCCTAACY
17821	T	T	S	GTGAAGTTAGGAAAGCCCTGTCAAAGCAAGAGATGGCGAGTACTTCATCCAGCCAA
17821	T	C	S	GTGAAGTTAGGAAAGCCCTGCCAAAGCAAGAGATGGCGAGTACTTCATCCAGCCAA
				ATTGTCATTCAGAAATACCATACTGTGAATGGCCACATCTGTGAAGTTAGGAAAGCCCTG[TC]CAAAGCAAGAGATGGCGAGTACTTCATCCAGCCAAAGAG
17821	IS	[TC]		GTCAAAGTGGTTCTGGAAACT
17846	I		A	GGATCTTCTCCCCAGTAATGGGGGACACAAGATACTCT
17846	P	A	A	CGCGCCGAGGATCTGGAGCAGGGGY
17846	P	C	A	ATGACGTGGCAGACCTCTGGAGCAGGGGY
17846	T	A	A	CCAGCCCCTGCTCCAGATGAGTATCTTGTGTCCCCCATTACTGGGGAGAAGATCCCC
17846	T	C	A	CCAGCCCCTGCTCCAGAGGAGTATCTTGTGTCCCCCATTACTGGGGAGAAGATCCCC
				GTGTTCCTGCATTTTGCTGGCGGGGATCTTCTCCCCAGTAATGGGGGACACAAGATACTC[AC]TCTGGAGCAGGGGCTGGAGGCAAGGGCTTGGAGGCTA
17846	IS	[AC]		AAAGGAAACAGATGTTTCAGTAA
17872	I		A	GGGTCTATGTTCGCAAGTTCCTGATCTACATCATCTTCATCTTTTTCC
17872	P	A	A	CGCGCCGAGGAATGTTTTCTTTCTCAGCATCY
17872	P	T	A	ATGACGTGGCAGACTATGTTTTCTTTCTCAGCATCTY
17872	T	A	A	AAGAAGATGCTGAGAAAGAAAACATTGAAAAAGATGAAGATGATGTAGATCAGGAACTTGCGAACATAGACCCTA
17872	T	T	A	AAGAAGATGCTGAGAAAGAAAACATAGAAAAAGATGAAGATGATGTAGATCAGGAACTTGCGAACATAGACCCTA

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FIGURE 129E



			TTCTATCCACGTAGGGTCTATGTTCGCAAGTTCCTGATCTACATCATCTTCATCTTTTTC[AT]ATGTTTTCTTTCTCAGCATCTTCTTTCTCTTCCTGGTCCTCA
17872 IS	[AT]		GCTTCACCTTAAGAATTT
17876 I		A	AGAGGCTGGCATTCTGAATCTGTCTGTCCACAA
17876 P	C	A	ATGACGTGGCAGACCAATCAAGTTCTATATTCTGTGGY
17876 P	T	A	CGCGCCGAGGTAATCAAGTTCTATATTCTGTGGCY
17876 T	C	A	AGGGGCCACAGAATATAGAACTTGATTGTGTGGACAGACAGATTCAGAATGCCAGCCTCTAC
17876 T	T	A	AGGGGCCACAGAATATAGAACTTGATTATGTGGACAGACAGATTCAGAATGCCAGCCTCTAC
			GCGACCTCGAAGTAACTCTTGGCAAGGTAGAGGCTGGCATTCTGAATCTGTCTGTCCACA[CT]AATCAAGTTCTATATTCTGTGGCCCCTGGTTGTAAAGAC
17876 IS	[CT]		TTTTATTTCTTTGAAGCTCTT
17877 I		S	CCACTGTGGAACACCGGGTTTGTCACACTGA
17877 P	A	S	CGCGCCGAGGTACAGCTTTCTCAAATTAAATTTCAY
17877 P	G	S	ATGACGTGGCAGACCACAGCTTTCTCAAATTAAATTTCY
17877 T	A	S	TTTGTGAAATTTAATTTGAGAAAGCTGTACAGTGTGACAAACCCGGTGTTCCACAGTGGTG
17877 T	G	S	TTTGTGAAATTTAATTTGAGAAAGCTGTGCAGTGTGACAAACCCGGTGTTCCACAGTGGTG
			ATGGGATTCGGCAGCACCAGGACACTAGACACTTTGTGAAATTTAATTTGAGAAAGCTGT[AG]CAGTGTGACAAACCCGGTGTTCCACAGTGGTGCTGCTTA
17877 IS	[AG]		TCAATTATACCCACTTGAAAT
17910 I		A	CCACTCTGGCAGCACAAGGCCCTGA
17910 P	C	A	ATGACGTGGCAGACCCACCCTTTGGAGACCY
17910 P	T	A	CGCGCCGAGGTCACCCTTTGGAGACCY
17910 T	C	A	GAGGGGTCTCCAAAGGGTGGCAGGGCCTTGTGCTGCCAGAGTGGGT
17910 T	T	A	GAGGGGTCTCCAAAGGGTGACAGGGCCTTGTGCTGCCAGAGTGGGT
			AGCCCAGCCAGAGCAAGGCCCCACAAGGGGAGTACCCACTCTGGCAGCACAAGGCCCTG[CT]CACCCTTTGGAGACCCCTCTGGGTGCAGGCCCCAAG
17910 IS	[CT]		TGGCTACACACCAGCCACAGCCAC
17962 I		A	CGTGAGGTGTGATTCTCCTCCCTCCCGTCA
17962 P	C	A	ATGACGTGGCAGACCCTGTGATTCTCATCCTCTY
17962 P	T	A	CGCGCCGAGGTCTGTGATTCTCATCCTCTY
17962 T	C	A	GGAAAGAGGATGAGAATCACAGGGACGGGAGGGAGGAGAATCACACCTCACGTT
17962 T	T	A	GGAAAGAGGATGAGAATCACAGAGACGGGAGGGAGGAGAATCACACCTCACGTT
			ACATGAACAATCCCTACAAAGCCACTTTCAACGTGAGGTGTGATTCTCCTCCCTCCCGTC[CT]CTGTGATTCTCATCCTCTTTCCAACACTGCTATCTCTGGA
17962 IS	[CT]		GACAGCCCTCTATCCCTCCG
18036 I		A	TGAGCACGCTCCTCTTCTCCAGCCCT
18036 P	G	A	ATGACGTGGCAGACGCTAGGCAGGACCAY
18036 P	A	A	CGCGCCGAGGACTAGGCAGGACCACY
18036 T	G	A	CACCGTGGTCCTGCCTAGCGGGCTGGAGAAGAGGAGCGTGCTCAAT
18036 T	A	A	CACCGTGGTCCTGCCTAGTGGGCTGGAGAAGAGGAGCGTGCTCAAT
			CGACTCCTCCTGCAGCACCGGCTCTCACCTCCCATTGAGCACGCTCCTCTTCTCCAGCCC[GA]CTAGGCAGGACCACGGTGACGTCCATGGTGCTGGCCC
18036 IS	[GA]		TCAGCGCCTCCTTCATGCGAACC
18044 I		A	ACAAGCCAAAGCAGAGAGAAAGGTTTTGAGCCGA
18044 P	C	A	ATGACGTGGCAGACCGGCATCAAGCGCY
18044 P	T	A	CGCGCCGAGGTGGCATCAAGCGCTY
18044 T	C	A	AGGGAGCGCTTGATGCCGCGGCTCAAAACCTTTCTCTCTGCTTTGGCTTGTGA
18044 T	T	A	AGGGAGCGCTTGATGCCACGGCTCAAAACCTTTCTCTCTGCTTTGGCTTGTGA
			TTAAGGGACGCACAGGAAATTGCACTCACAAGCCAAAGCAGAGAGAAAGGTTTTGAGCCG[CT]GGCATCAAGCGCTCCCTCCCAGCACACGGTGCTGGAAC
18044 IS	[CT]		AGACTCATTCACTGTCAGCAAA
18076 I		A	CTGACCCCAGGCCTCCCTCTTCTTGTT
18076 P	C	A	ATGACGTGGCAGACCCCCCTGGTGGGY
18076 P	A	A	CGCGCCGAGGACCCCTGGTGGGTY
18076 T	C	A	GAGCACCCACCAGGGGGACAAGAAGAGGGAGGCCTGGGGTCAGTG
18076 T	A	A	GAGCACCCACCAGGGGTACAAGAAGAGGGAGGCCTGGGGTCAGTG
			GTGGGGGACCTGTACGCCACCTGCCCCTGCCCCACTGACCCCAGGCCTCCCTCTTCTTGT[CA]CCCCTGGTGGGTGCTCAGTGCCCAGAAGTGATGGGAT
18076 IS	[CA]		GAGGTTCCACATGCTGCCTGCTT
18133 I		A	GCAGTTAGGGCGGGCAGCACAGTTA
18133 P	C	A	ATGACGTGGCAGACCGGGCAAAGGTGTACY
18133 P	T	A	CGCGCCGAGGTGGGCAAAGGTGTACAY
18133 T	C	A	TCCCTGTACACCTTTGCCCGAACTGTGCTGCCCGCCCTAACTGCCC
18133 T	T	A	TCCCTGTACACCTTTGCCCAAACTGTGCTGCCCGCCCTAACTGCCC
			GAGGATTTGGTCAGTGGGGAGAGGATGGGAGAGAGGGCAGTTAGGGCGGGCAGCACAGTT[CT]GGGCAAAGGTGTACAGGGATGAGCCTGTGGTGGAG
18133 IS	[CT]		CCAGCGCTGTCTCCCTCCTGGAAAA
18156 I		A	GAGCTGGCTGACGCTTTGAGGCCCT
18156 P	G	A	ATGACGTGGCAGACGAGTCACTCGGGAAGATY
18156 P	A	A	CGCGCCGAGGAAGTCACTCGGGAAGATY
18156 T	G	A	TGTGATCTTCCCGAGTGACTCGGGCCTCAAAGCGTCAGCCAGCTCCC
18156 T	A	A	TGTGATCTTCCCGAGTGACTTGGGCCTCAAAGCGTCAGCCAGCTCCC
			CTATGGGGTGGGGGGTTTGGAGGGTACAGGGGCTGGGAGCTGGCTGACGCTTTGAGGCCC[GA]AGTCACTCGGGAAGATCACAATGCCAAGCGCCACAG
18156 IS	[GA]		TGTTCCTCTGCCAGGAGGGTTCA
18170 I		S	CCCACAGTATGAAGAATGCGTTTAAAAGGCAGAA
18170 P	A	S	CGCGCCGAGGTAGCATGATTCATAATGAAACTTTTY
18170 P	G	S	ATGACGTGGCAGACCAGCATGATTCATAATGAAACTTY
18170 T	A	S	GTCAAAAAGTTTCATTATGAATCATGCTATCTGCCTTTTAAACGCATTCTTCATACTGTGGGAG
18170 T	G	S	GTCAAAAAGTTTCATTATGAATCATGCTGTCTGCCTTTTAAACGCATTCTTCATACTGTGGGAG
			TGACAGCTAAAGGGAAACTGTTAATACTGTTAGTCAAAAAGTTTCATTATGAATCATGCT[AG]TCTGCCTTTTAAACGCATTCTTCATACTGTGGGAGAAGTAA
18170 IS	[AG]		ATGGGACTCATTGAAAAGC
18218 I		S	GTGGGCACTGTCCCTCTGCCCACT
18218 P	G	S	CGCGCCGAGGCTGCCCTCGAGGTGY
18218 P	C	S	ATGACGTGGCAGACGTGCCCTCGAGGTGY
18218 T	G	S	TGGGCACCTCGAGGGCAGGTGGGCAGAGGGACAGTGCCCACTG
18218 T	C	S	TGGGCACCTCGAGGGCACGTGGGCAGAGGGACAGTGCCCACTG
			CCCTGGAGACACAGGAAGAGAAGGCTGAGGGCGAGTATTCCTCTGGGCACCTCGAGGGCA[GC]GTGGGCAGAGGGACAGTGCCCACTGATAGCCTGGCC
18218 IS	[GC]		CCTCTGTGGGGCCCAACTCACCTT
18358 I		S	GCCCCACCCAGCTACATCCTTCCTTCCA
18358 P	G	S	ATGACGTGGCAGACCTGCCCTCTTCTCCCY
18358 P	A	S	CGCGCCGAGGTTGCCCTCTTCTCCCY
18358 T	G	S	TACTGGGAGAAGAGGGCAGGGAAGGAAGGATGTAGCTGGGTGGGGCTC
18358 T	A	S	TACTGGGAGAAGAGGGCAAGGAAGGAAGGATGTAGCTGGGTGGGGCTC
			AATAGGGGAAGGGCATTCAGTGGGACTTCCTGGAGGGTGGTCTACTGGGAGAAGAGGGCA[GA]GGAAGGAAGGATGTAGCTGGGTGGGGCTCATTTGTC
18358 IS	[GA]		CCTCTGTCACAGATTCCTCCTCCG
18364 I		S	AAAATCGAACAGCTCCCACAATGTCATTTTATACACATGC
18364 P	A	S	CGCGCCGAGGTCATAGGCAAGGAAAGATGY
18364 P	C	S	ATGACGTGGCAGACGCATAGGCAAGGAAAGATY
18364 T	A	S	CGATCATCTTTCCTTGCCTATGACATGTGTATAAAATGACATTGTGGGAGCTGTTCGATTTTTT
18364 T	C	S	CGATCATCTTTCCTTGCCTATGCCATGTGTATAAAATGACATTGTGGGAGCTGTTCGATTTTTT
			TTCAATTAGGACACAGCCAGATGGACATCTAAGACAGCCGATCATCTTTCCTTGCCTATG[AC]CATGTGTATAAAATGACATTGTGGGAGCTGTTCGATTTTT
18364 IS	[AC]		TAAAGGTAGTGTCTCCTGAT
18415 I		A	CCTCTTCTAGAGGCCATGCGAAGACAGCTGATA
18415 P	T	A	CGCGCCGAGGTAGTGACCCAAGGCAGY
18415 P	C	A	ATGACGTGGCAGACCAGTGACCCAAGGCAY
18415 T	T	A	GGCTCTGCCTTGGGTCACTAATCAGCTGTCTTCGCATGGCCTCTAGAAGAGGGT
18415 T	C	A	GGCTCTGCCTTGGGTCACTGATCAGCTGTCTTCGCATGGCCTCTAGAAGAGGGT

ATP1B4

FIGURE 129E

			CTCATCTTCAGGATAAAGAACAATCCACCCTCTTCTAGAGGCCATGCGAAGACAGCTGAT[TC]AGTGACCCAAGGCAGAGCCACATGCAGACAGAGTATTTC
18415	IS	[TC]	GAAGTTTACTGTAGAACCATT
18416	I	A	GAATGCAAGCTTGTCTTTCACAATGTAGACATCTAAACAA
18416	P	T A	CGCGCCGAGGTTCTCCTTTAGAAGTACCCAY
18416	P	C A	ATGACGTGGCAGACCTCTCCTTTAGAAGTACCCAY
18416	T	T A	GCAATGGGTACTTCTAAAGGAGAATGTTTAGATGTCTACATTGTGAAAGACAAGCTTGCATTCGA
18416	T	C A	GCAATGGGTACTTCTAAAGGAGAGTGTTTAGATGTCTACATTGTGAAAGACAAGCTTGCATTCGA
			TCACTTAATTATGATTGTATCGAATGCAAGCTTGTCTTTCACAATGTAGACATCTAAACA[TC]TCTCCTTTAGAAGTACCCATTGCGCTTTTATTGTTTTCAAGT
18416	IS	[TC]	TTCATAAAGTTAGGAGCT
18442	I	A	CAGACAAGAGTGCTCACACCTCAAGTTGTTTTTGAGAATTATATGAGAT
18442	P	G A	ATGACGTGGCAGACGAATACATCTAATGAACTTACAATTAAACY
18442	P	C A	CGCGCCGAGGCAATACATCTAATGAACTTACAATTAAACY
18442	T	G A	AGAAGTTTAATTGTAAGTTCATTAGATGTATTCTCTCATATAATTCTCAAAAACAACTTGAGGTGTGAGCACTCTTGTCTGCC
18442	T	C A	AGAAGTTTAATTGTAAGTTCATTAGATGTATTGTCTCATATAATTCTCAAAAACAACTTGAGGTGTGAGCACTCTTGTCTGCC
			TGAACAACAGGGCAGACAAGAGTGCTCACACCTCAAGTTGTTTTTGAGAATTATATGAGA[GC]AATACATCTAATGAACTTACAATTAAACTTCTCCACTCCCT
18442	IS	[GC]	AATAAGTTTTCTGAAAGAA
18453	I	S	CGCTGAGGGCATAACGAAGGTAAAGAAGGCGA
18453	P	A S	CGCGCCGAGGTGGCTACTGCCCAAAY
18453	P	G S	ATGACGTGGCAGACCGGCTACTGCCCAAY
18453	T	A S	TGGATTTGGGCAGTAGCCACGCCTTCTTTACCTTCGTTATGCCCTCAGCGTT
18453	T	G S	TGGATTTGGGCAGTAGCCGCGCCTTCTTTACCTTCGTTATGCCCTCAGCGTT
			GTGCCGCACTTCCGAGAACTGACGGCCTCCTGGTAGCCATCTTGGATTTGGGCAGTAGCC[AG]CGCCTTCTTTACCTTCGTTATGCCCTCAGCGTTAAGGC
18453	IS	[AG]	GCCTGCGTGTTCTGGTTGGGCT
18546	I	A	TGTTGGACTTGTCCTGCAATTCTGAGACCCTCAA
18546	P	C A	ATGACGTGGCAGACCCTCTTTCCCACTATATAGTGY
18546	P	T A	CGCGCCGAGGTCTCTTTCCCACTATATAGTGAY
18546	T	C A	GAGGTCACTATATAGTGGGAAAGAGGTGAGGGTCTCAGAATTGCAGGACAAGTCCAACAAC
18546	T	T A	GAGGTCACTATATAGTGGGAAAGAGATGAGGGTCTCAGAATTGCAGGACAAGTCCAACAAC
			ATTGCCATGTCTCATGCTGGTACCTGTTGTTGGACTTGTCCTGCAATTCTGAGACCCTCA[CT]CTCTTTCCCACTATATAGTGACCTCCTGGAGAACATGATA
18546	IS	[CT]	AAGCTGTTGTCATCTTGCTG
18628	I	A	GCCCTTTACCATGTCTCTTTTCTAGCTCTGGCCTTAT
18628	P	A A	CGCGCCGAGGACCCAGAAACTGGCTY
18628	P	G A	ATGACGTGGCAGACGCCCAGAAACTGGCY
18628	T	A A	TGCCAGCCAGTTTCTGGGTTAAGGCCAGAGCTAGAAAAGAGACATGGTAAAGGGCCA
18628	T	G A	TGCCAGCCAGTTTCTGGGCTAAGGCCAGAGCTAGAAAAGAGACATGGTAAAGGGCCA
			CCAGTACAAGAAGGACATTTCCTGGCCCTTTACCATGTCTCTTTTCTAGCTCTGGCCTTA[AG]CCCAGAAACTGGCTGGCAAGCTGCGGGGAGGGCATCAG
18628	IS	[AG]	AAGGGAGGAGGGAAAGCACTAG
18731	I	A	GTAGCCTGTCCTTCAATGGTAAGACAATTTTAGAAGTATCTACCATCTTTCATAAAACT
18731	P	A A	CGCGCCGAGGATGTGGACACTAGTTTTCAGY
18731	P	G A	ATGACGTGGCAGACGTGTGGACACTAGTTTTCAY
18731	T	A A	ATAGCTGAAAACTAGTGTCCACATGTTTTATGAAAGATGGTAGATACTTCTAAAATTGTCTTACCATTGAAGGACAGGCTACCC
18731	T	G A	ATAGCTGAAAACTAGTGTCCACACGTTTTATGAAAGATGGTAGATACTTCTAAAATTGTCTTACCATTGAAGGACAGGCTACCC
			GGGTAGCCTGTCCTTCAATGGTAAGACAATTTTAGAAGTATCTACCATCTTTCATAAAAC[AG]TGTGGACACTAGTTTTCAGCTATTCTGCACCAGCTCACAA
18731	IS	[AG]	GATGGCGGTGTTCTATTTTG
18793	I	A	CTTTGAGAACGCTGGCATGTGTGCTTCTTGTCTC
18793	P	G A	ATGACGTGGCAGACGTGACCTCTGAGGAGTCY
18793	P	T A	CGCGCCGAGGTTGACCTCTGAGGAGTCY
18793	T	G A	ATCCGACTCCTCAGAGGTCACAGACAAGAAGCACACATGCCAGCGTTCTCAAAGAA
18793	T	T A	ATCCGACTCCTCAGAGGTCAAAGACAAGAAGCACACATGCCAGCGTTCTCAAAGAA
			TAAAGGACCCCAAAACATCTCGCCCTTCTTTGAGAACGCTGGCATGTGTGCTTCTTGTCT[GT]TGACCTCTGAGGAGTCGGATCCCCAGGTGCTTCAATAGC
18793	IS	[GT]	TCTGAGCTGTCCTTTATTTTG
18883	I	S	CCCAGACCTTCACACGAGCTGCTCCCA
18883	P	A S	CGCGCCGAGGTTGGCCTGTGGGTGY
18883	P	G S	ATGACGTGGCAGACCTGGCCTGTGGGTY
18883	T	A S	GAAGCACCCACAGGCCAAGGGAGCAGCTCGTGTGAAGGTCTGGGCA
18883	T	G S	GAAGCACCCACAGGCCAGGGGAGCAGCTCGTGTGAAGGTCTGGGCA
			GGGCCCTGCAGGGGTAACGGGATGACTTCCATGGGTGAATGCAGAAGCACCCACAGGCCA[AG]GGGAGCAGCTCGTGTGAAGGTCTGGGCAGGAGCGG
18883	IS	[AG]	GCTGGCTGTGCAGGGGGAGCAGCCG
18913	I	A	AGTCAGGGATCTGGAATGGGACTTCCAACAGATATGTA
18913	P	T A	CGCGCCGAGGTGCTGGGCTATGTTGTY
18913	P	C A	ATGACGTGGCAGACCGCTGGGCTATGTTGY
18913	T	T A	AATAACAACATAGCCCAGCAACATATCTGTTGGAAGTCCCATTCCAGATCCCTGACTTC
18913	T	C A	AATAACAACATAGCCCAGCGACATATCTGTTGGAAGTCCCATTCCAGATCCCTGACTTC
			CATCGGGAAGCAGGATTAGATGAAGTCAGGGATCTGGAATGGGACTTCCAACAGATATGT[TC]GCTGGGCTATGTTGTTATTGATGATGGTTCTGTCTTTGT
18913	IS	[TC]	TTCTCAGTCTCATTTAGTTCC
18937	I	S	AGGGCTGCCCAGAGACTCATTTCAAGACATTTATCTGA
18937	P	G S	ATGACGTGGCAGACCCACTGAACAATGGTGTY
18937	P	A S	CGCGCCGAGGTCACTGAACAATGGTGTCY
18937	T	G S	AGCAGACACCATTGTTCAGTGGCAGATAAATGTCTTGAAATGAGTCTCTGGGCAGCCCTGC
18937	T	A S	AGCAGACACCATTGTTCAGTGACAGATAAATGTCTTGAAATGAGTCTCTGGGCAGCCCTGC
			TGCTGCTCTACTTGGCAGTCGCTTTAATTTCTTCTCAGCAGCAGACACCATTGTTCAGTG[GA]CAGATAAATGTCTTGAAATGAGTCTCTGGGCAGCCCTGC
18937	IS	[GA]	TCTTGAGTGAGAAGGCACATC
18939	I	A	GCTGAGGGCTGGAATTCGTCTCAATTTTGTAGGACCT
18939	P	A A	CGCGCCGAGGATGTTCCAGAGATGAGCCY
18939	P	G A	ATGACGTGGCAGACGTGTTCCAGAGATGAGCY
18939	T	A A	CCTAGGCTCATCTCTGGAACATGGTCCTACAAAATTGAGACGAATTCCAGCCCTCAGCTG
18939	T	G A	CCTAGGCTCATCTCTGGAACACGGTCCTACAAAATTGAGACGAATTCCAGCCCTCAGCTG
			ACTAGAAACCTCATTATCATTGCAGCTGAGGGCTGGAATTCGTCTCAATTTTGTAGGACC[AG]TGTTCCAGAGATGAGCCTAGGACTTCCTAACACTCTTTTT
18939	IS	[AG]	CCCATTTTTGAAACTAATTA
19009	I	S	GCCACCTCCTCTCTTCCCATCCCTCAGACC
19009	P	C S	ATGACGTGGCAGACGCACCAGCAGCAGAY
19009	P	A S	CGCGCCGAGGTCACCAGCAGCAGAGY
19009	T	C S	CGCCCTCTGCTGCTGGTGCGTCTGAGGGATGGGAAGAGAGGAGGTGGCTG
19009	T	A S	CGCCCTCTGCTGCTGGTGAGTCTGAGGGATGGGAAGAGAGGAGGTGGCTG
			CCCTTCCAAATGTAGCACATGGCCTGGTAGATGGAGAAGACACGCCCTCTGCTGCTGGTG[CA]GTCTGAGGGATGGGAAGAGAGGAGGTGGCTGAGGGCA
19009	IS	[CA]	AGGGGGCACCTTCCTCACCTGGA
19017	I	A	CGGGGTTGCAGAGAGGGAGGGCAGA
19017	P	T A	CGCGCCGAGGTTGAGTCAGCACAGGCY
19017	P	C A	ATGACGTGGCAGACCTGAGTCAGCACAGGCY
19017	T	T A	TCCAGCCTGTGCTGACTCAACTGCCCTCCCTCTCTGCAACCCCGGT
19017	T	C A	TCCAGCCTGTGCTGACTCAGCTGCCCTCCCTCTCTGCAACCCCGGT
			ACTGCTCAGGGTGCAGGGGAGTCTGGCAGATGCTACCGGGGTTGCAGAGAGGGAGGGCAG[TC]TGAGTCAGCACAGGCTGGAGAGGGAAACTGCAGACA
19017	IS	[TC]	CAGACAGTCACTGGTGCTGCGTCA
19018	I	S	GCCTGGGACAGCCCAGCCCCC
19018	P	A S	CGCGCCGAGGTTTGTGAGGGTTAAGGGY
19018	P	T S	ATGACGTGGCAGACATTGTGAGGGTTAAGGGY
19018	T	A S	ACAGCCCTTAACCCTCACAAAGGGGCTGGGCTGTCCCAGGCTT
19018	T	T S	ACAGCCCTTAACCCTCACAATGGGGCTGGGCTGTCCCAGGCTT

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FIGURE 129E

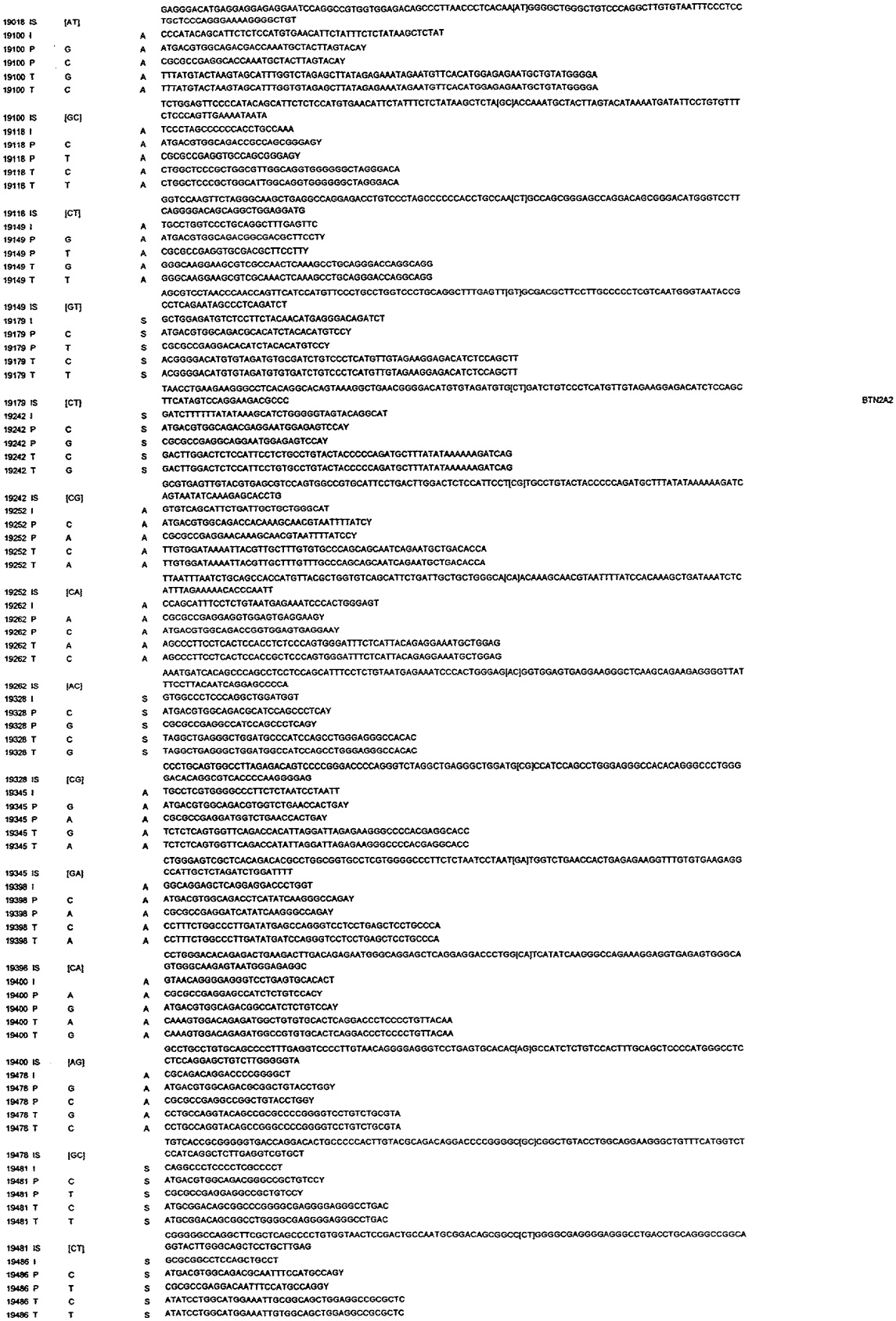
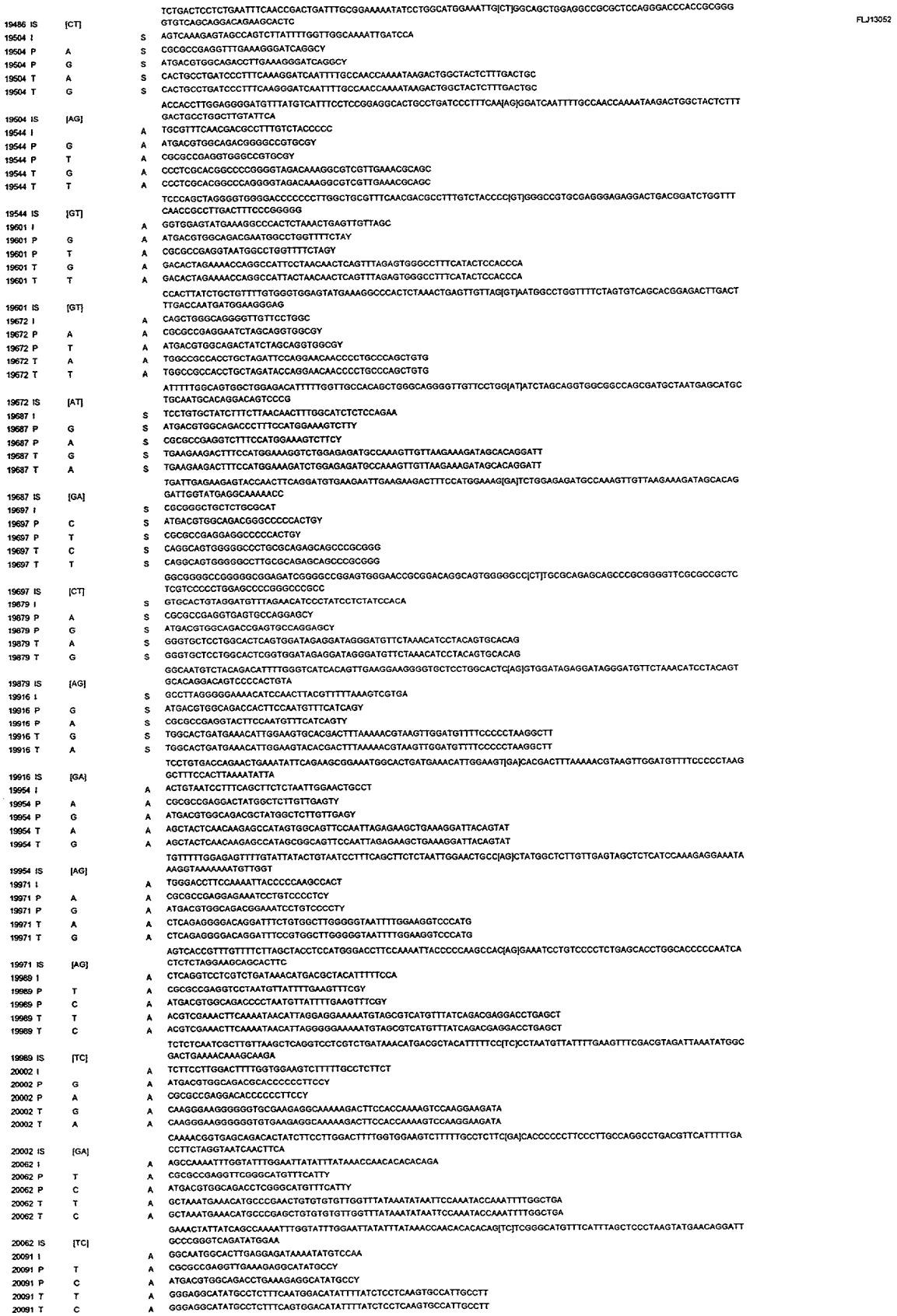
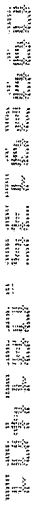

GAGGGACATGAGGAGGAGAGGAATCCAGGCCGTGGTGGAGACAGCCCTTAACCCTCACAA[AT]GGGGCTGGGCTGTCCCAGGCTTGTGTAATTTCCCTCC
19018 IS [AT] TGCTCCCAGGGAAAAGGGGCTGT
19100 I A CCCATACAGCATTCTCTCCATGTGAACATTCTATTTCTCTATAAGCTCTAT
19100 P G A ATGACGTGGCAGACGACCAAATGCTACTTAGTACAY
19100 P C A CGCGCCGAGGCACCAAATGCTACTTAGTACAY
19100 T G A TTTATGTACTAAGTAGCATTTGGTCTAGAGCTTATAGAGAAATAGAATGTTCACATGGAGAGAATGCTGTATGGGGA
19100 T C A TTTATGTACTAAGTAGCATTTGGTGTAGAGCTTATAGAGAAATAGAATGTTCACATGGAGAGAATGCTGTATGGGGA
TCTGGAGTTCCCCATACAGCATTCTCTCCATGTGAACATTCTATTTCTCTATAAGCTCTA[GC]ACCAAATGCTACTTAGTACATAAAATGATATTCCTGTGTTT
19100 IS [GC] CTCCCAGTTGAAAATAATA
19118 I A TCCCTAGCCCCCCACCTGCCAAA
19118 P C A ATGACGTGGCAGACCGCCAGCGGGAGY
19118 P T A CGCGCCGAGGTGCCAGCGGGAGY
19118 T C A CTGGCTCCCGCTGGCGTTGGCAGGTGGGGGGCTAGGGACA
19118 T T A CTGGCTCCCGCTGGCATTGGCAGGTGGGGGGCTAGGGACA
GGTCCAAGTTCTAGGGCAAGCTGAGGCCAGGAGACCTGTCCCTAGCCCCCCACCTGCCAA[CT]GCCAGCGGGAGCCAGGACAGCGGGACATGGGTCCTT
19118 IS [CT] CAGGGGACAGCAGGCTGGAGGATG
19149 I A TGCCTGGTCCCTGCAGGCTTTGAGTTC
19149 P G A ATGACGTGGCAGACGGCGACGCTTCCTY
19149 P T A CGCGCCGAGGTGCGACGCTTCCTTY
19149 T G A GGGCAAGGAAGCGTCGCCAACTCAAAGCCTGCAGGGACCAGGCAGG
19149 T T A GGGCAAGGAAGCGTCGCAAACTCAAAGCCTGCAGGGACCAGGCAGG
AGCGTCCTAACCCAACCAGTTCATCCATGTTCCCTGCCTGGTCCCTGCAGGCTTTGAGTT[GT]GCGACGCTTCCTTGCCCCCTCGTCAATGGGTAATACCG
19149 IS [GT] CCTCAGAATAGCCCTCAGATCT
19179 I S GCTGGAGATGTCTCCTTCTACAACATGAGGGACAGATCT
19179 P C S ATGACGTGGCAGACGCACATCTACACATGTCCY
19179 P T S CGCGCCGAGGACACATCTACACATGTCCY
19179 T C S ACGGGGACATGTGTAGATGTGCGATCTGTCCCTCATGTTGTAGAAGGAGACATCTCCAGCTT
19179 T T S ACGGGGACATGTGTAGATGTGTGATCTGTCCCTCATGTTGTAGAAGGAGACATCTCCAGCTT
TAACCTGAAGAAGGGCCTCACAGGCACAGTAAAGGCTGAACGGGGACATGTGTAGATGTG[CT]GATCTGTCCCTCATGTTGTAGAAGGAGACATCTCCAGC
19179 IS [CT] TTCATAGTCCAGGAAGACGCCC BTN2A2
19242 I S GATCTTTTTTATATAAAGCATCTGGGGGTAGTACAGGCAT
19242 P C S ATGACGTGGCAGACGAGGAATGGAGAGTCCAY
19242 P G S CGCGCCGAGGCAGGAATGGAGAGTCCAY
19242 T C S GACTTGGACTCTCCATTCCTCTGCCTGTACTACCCCCAGATGCTTTATATAAAAAAGATCAG
19242 T G S GACTTGGACTCTCCATTCCTGTGCCTGTACTACCCCCAGATGCTTTATATAAAAAAGATCAG
GCGTGAGTTGTACGTGAGCGTCCAGTGGCCGTGCATTCCTGACTTGGACTCTCCATTCCT[CG]TGCCTGTACTACCCCCAGATGCTTTATATAAAAAAGATC
19242 IS [CG] AGTAATATCAAAGAGCACCTG
19252 I A GTGTCAGCATTCTGATTGCTGCTGGGCAT
19252 P C A ATGACGTGGCAGACCACAAAGCAACGTAATTTTATCY
19252 P A A CGCGCCGAGGAACAAAGCAACGTAATTTTATCCY
19252 T C A TTGTGGATAAAATTACGTTGCTTTGTGTGCCCAGCAGCAATCAGAATGCTGACACCA
19252 T A A TTGTGGATAAAATTACGTTGCTTTGTTTGCCCAGCAGCAATCAGAATGCTGACACCA
TTAATTTAATCTGCAGCCACCATGTTACGCTGGTGTCAGCATTCTGATTGCTGCTGGGCA[CA]ACAAAGCAACGTAATTTTATCCACAAAGCTGATAAATCTC
19252 IS [CA] ATTTAGAAAAACACCCAATT
19262 I A CCAGCATTTCCTCTGTAATGAGAAATCCCACTGGGAGT
19262 P A A CGCGCCGAGGAGGTGGAGTGAGGAAGY
19262 P C A ATGACGTGGCAGACCGGTGGAGTGAGGAAY
19262 T A A AGCCCTTCCTCACTCCACCTCTCCCAGTGGGATTTCTCATTACAGAGGAAATGCTGGAG
19262 T C A AGCCCTTCCTCACTCCACCGCTCCCAGTGGGATTTCTCATTACAGAGGAAATGCTGGAG
AAATGATCACAGCCCAGCCTCCTCCAGCATTTCCTCTGTAATGAGAAATCCCACTGGGAG[AC]GGTGGAGTGAGGAAGGGCTCAAGCAGAAGAGGGGTTAT
19262 IS [AC] TTCCTTACAATCAGGAGCCCCA
19328 I S GTGGCCCTCCCAGGCTGGATGGT
19328 P C S ATGACGTGGCAGACGCATCCAGCCCTCAY
19328 P G S CGCGCCGAGGCCATCCAGCCCTCAGY
19328 T C S TAGGCTGAGGGCTGGATGCCCATCCAGCCTGGGAGGGCCACAC
19328 T G S TAGGCTGAGGGCTGGATGGCCATCCAGCCTGGGAGGGCCACAC
CCCTGCAGTGGCCTTAGAGACAGTCCCCGGGACCCCAGGGTCTAGGCTGAGGGCTGGATG[CG]CCATCCAGCCTGGGAGGGCCACACAGGGCCCTGGG
19328 IS [CG] GACACAGGCGTCACCCCAAGGGGAG
19345 I A TGCCTCGTGGGGCCCTTCTCTAATCCTAATT
19345 P G A ATGACGTGGCAGACGTGGTCTGAACCACTGAY
19345 P A A CGCGCCGAGGATGGTCTGAACCACTGAY
19345 T G A TCTCTCAGTGGTTCAGACCACATTAGGATTAGAGAAGGGCCCCACGAGGCACC
19345 T A A TCTCTCAGTGGTTCAGACCATATTAGGATTAGAGAAGGGCCCCACGAGGCACC
CTGGGAGTCGCTCACAGACACGCCTGGCGGTGCCTCGTGGGGCCCTTCTCTAATCCTAAT[GA]TGGTCTGAACCACTGAGAGAAGGTTTGTGTGAAGAGG
19345 IS [GA] CCATTGCTCTAGATCTGGATTTT
19398 I A GGCAGGAGCTCAGGAGGACCCTGGT
19398 P C A ATGACGTGGCAGACCTCATATCAAGGGCCAGAY
19398 P A A CGCGCCGAGGATCATATCAAGGGCCAGAY
19398 T C A CCTTTCTGGCCCTTGATATGAGCCAGGGTCCTCCTGAGCTCCTGCCCA
19398 T A A CCTTTCTGGCCCTTGATATGATCCAGGGTCCTCCTGAGCTCCTGCCCA
CCTGGGACACAGAGACTGAAGACTTGACAGAGAATGGGCAGGAGCTCAGGAGGACCCTGG[CA]TCATATCAAGGGCCAGAAAGGAGGTGAGAGTGGGCA
19398 IS [CA] GTGGGCAAGAGTAATGGGAGAGGC
19400 I A GTAACAGGGGAGGGTCCTGAGTGCACACT
19400 P A A CGCGCCGAGGAGCCATCTCTGTCCACY
19400 P G A ATGACGTGGCAGACGGCCATCTCTGTCCAY
19400 T A A CAAAGTGGACAGAGATGGCTGTGTGCACTCAGGACCCTCCCCTGTTACAA
19400 T G A CAAAGTGGACAGAGATGGCCGTGTGCACTCAGGACCCTCCCCTGTTACAA
GCCTGCCTGTGCAGCCCCTTTGAGGTCCCCTTGTAACAGGGGAGGGTCCTGAGTGCACAC[AG]GCCATCTCTGTCCACTTTGCAGCTCCCCATGGGCCTC
19400 IS [AG] CTCCAGGAGCTGTCTTGGGGGTA
19478 I A CGCAGACAGGACCCCGGGGCT
19478 P G A ATGACGTGGCAGACGCGGCTGTACCTGGY
19478 P C A CGCGCCGAGGCCGGCTGTACCTGGY
19478 T G A CCTGCCAGGTACAGCCGCGCCCCGGGGTCCTGTCTGCGTA
19478 T C A CCTGCCAGGTACAGCCGGGCCCCGGGGTCCTGTCTGCGTA
TGTCACCGCGGGGGTGACCAGGACACTGCCCCCACTTGTACGCAGACAGGACCCCGGGGC[GC]CGGCTGTACCTGGCAGGAAGGGCTGTTTCATGGTCT
19478 IS [GC] CCATCAGGCTCTTGAGGTCGTGCT
19481 I S CAGGCCCTCCCCTCGCCCCT
19481 P C S ATGACGTGGCAGACGGGCCGCTGTCCY
19481 P T S CGCGCCGAGGAGGCCGCTGTCCY
19481 T C S ATGCGGACAGCGGCCCGGGGCGAGGGGAGGGCCTGAC
19481 T T S ATGCGGACAGCGGCCTGGGGCGAGGGGAGGGCCTGAC
CGGGGGCCAGGCTTCGCTCAGCCCCTGTGGTAACTCCGACTGCCAATGCGGACAGCGGCC[CT]GGGGCGAGGGGAGGGCCTGACCTGCAGGGCCGGCA
19481 IS [CT] GGTACTTGGGCAGCTCCTGCTTGAG
19486 I S GCGCGGCCTCCAGCTGCCT
19486 P C S ATGACGTGGCAGACGCAATTTCCATGCCAGY
19486 P T S CGCGCCGAGGACAATTTCCATGCCAGGY
19486 T C S ATATCCTGGCATGGAAATTGCGGCAGCTGGAGGCCGCGCTC
19486 T T S ATATCCTGGCATGGAAATTGTGGCAGCTGGAGGCCGCGCTC

FIGURE 129E



FLJ13052

Confidential and Proprietary



				GAGCTAAAGACAGCATAAGTAATTTAAGGCAATGGCACTTGAGGAGATAAAATATGTCCA[TC]TGAAAGAGGCATATGCCTCCCCTTTTACCTTTCCTGGCAT
20091	IS	[TC]		GGGCTCTGACACCTGGCTTC
20184	I		S	AAGTATCTCAGACCTGATAGAATATTGTAAGCTCTTTATAGCTAATATTACAACAA
20184	P	A	S	CGCGCCGAGGTCTACTGCACTTGTCTCAY
20184	P	G	S	ATGACGTGGCAGACCCTACTGCACTTGTCTCAY
20184	T	A	S	TTAATGAGACAAGTGCAGTAGATGTTGTAATATTAGCTATAAAGAGCTTACAATATTCTATCAGGTCTGAGATACTTTT
20184	T	G	S	TTAATGAGACAAGTGCAGTAGGTGTTGTAATATTAGCTATAAAGAGCTTACAATATTCTATCAGGTCTGAGATACTTTT
				AATTATGACAATTTCATTGAAGATTGAAAATTAACGAATTTAATGAGACAAGTGCAGTAG[AG]TGTTGTAATATTAGCTATAAAGAGCTTACAATATTCTATCAG
20184	IS	[AG]		GTCTGAGATACTTTTTAC
20198	I		A	CAAAGCACAGTCCTTGGGCTGGTAGCGT
20198	P	A	A	CGCGCCGAGGATGGCCCTAACTTCTTTGY
20198	P	C	A	ATGACGTGGCAGACCTGGCCCTAACTTCTTTGY
20198	T	A	A	ACAGCAAAGAAGTTAGGGCCATCGCTACCAGCCCAAGGACTGTGCTTTGGG
20198	T	C	A	ACAGCAAAGAAGTTAGGGCCAGCGCTACCAGCCCAAGGACTGTGCTTTGGG
				GCCTTAGATCCTGGGCCTCTGGGCAGTGAGGCCCAAAGCACAGTCCTTGGGCTGGTAGCG[AC]TGGCCCTAACTTCTTTGCTGTTGGTAAACTCATGTTCA
20198	IS	[AC]		GGAATTGAGTCAGTCTTTAGAA
20239	I		A	CCCCTTTTATCCTACCTCCCTGCCTTGGTCCA
20239	P	C	A	ATGACGTGGCAGACCGCCAACACATGCGY
20239	P	T	A	CGCGCCGAGGTGCCAACACATGCGY
20239	T	C	A	TACTCGCATGTGTTGGCGGGACCAAGGCAGGGAGGTAGGATAAAAGGGGGA
20239	T	T	A	TACTCGCATGTGTTGGCAGGACCAAGGCAGGGAGGTAGGATAAAAGGGGGA
				ACCATTCCCTGGCTACTCTCTCCTTCCTCCCCCTTTTATCCTACCTCCCTGCCTTGGTCC[CT]GCCAACACATGCGAGTACACACACACCCCTCTCTCTGCTT
20239	IS	[CT]		TTGTCAGGCAGTGGTAGGAC
20251	I		A	CAGTTACACTCATTCCAGGAGTTAAAATTTGAGAATTTAAATCCATTTTT
20251	P	A	A	CGCGCCGAGGACCTTATTAAGAATAAAATGCACCY
20251	P	C	A	ATGACGTGGCAGACCCCTTATTAAGAATAAAATGCACCY
20251	T	A	A	ACCTGGTGCATTTTATTCTTAATAAGGTAAAATGGATTTAAATTCTCAAATTTTAACTCCTGGAATGAGTGTAACTGCT
20251	T	C	A	ACCTGGTGCATTTTATTCTTAATAAGGGAAAATGGATTTAAATTCTCAAATTTTAACTCCTGGAATGAGTGTAACTGCT
				CATAAATGTAGCAGTTACACTCATTCCAGGAGTTAAAATTTGAGAATTTAAATCCATTTT[AC]CCTTATTAAGAATAAAATGCACCAGGTGGTCTCTTAATAAAG
20251	IS	[AC]		TAAAACTAATTTTAATTC
20252	I		S	AAAAAGTCTCACAGATTAATTAATTGCTGTAGAAGTGATCACATTTTTATTCATAGC
20252	P	A	S	CGCGCCGAGGTCTTTTTGCTTTATCAAGACAAAY
20252	P	C	S	ATGACGTGGCAGACGCTTTTTGCTTTATCAAGACAY
20252	T	A	S	TTTGTTTGTCTTGATAAAGCAAAAAGACTATGAATAAAAATGTGATCACTTCTACAGCAATTAATTAATCTGTGAGACTTTTTTT
20252	T	C	S	TTTGTTTGTCTTGATAAAGCAAAAAGCCTATGAATAAAAATGTGATCACTTCTACAGCAATTAATTAATCTGTGAGACTTTTTTT
				GTCTCTTAATAAAGTAAAACTAATTTTAATTCATTTTGTTTGTCTTGATAAAGCAAAAAG[AC]CTATGAATAAAAATGTGATCACTTCTACAGCAATTAATTAATC
20252	IS	[AC]		TGTGAGACTTTTTTTGC
20296	I		A	GTTCAGGGACCAGAATGCTCTTAGAAGGAGATGGGC
20296	P	G	A	ATGACGTGGCAGACGTCAGAAGGTTGTCAGTCY
20296	P	T	A	CGCGCCGAGGTTCAGAAGGTTGTCAGTCAY
20296	T	G	A	TCACTGACTGACAACCTTCTGACCCCATCTCCTTCTAAGAGCATTCTGGTCCCTGAACAG
20296	T	T	A	TCACTGACTGACAACCTTCTGAACCCATCTCCTTCTAAGAGCATTCTGGTCCCTGAACAG
				CTAGGTTTCCTCTCCAAAACTCACTGTTCAGGGACCAGAATGCTCTTAGAAGGAGATGGG[GT]TCAGAAGGTTGTCAGTCAGTGACAGGGTGAGCATCACA
20296	IS	[GT]		GGAATTGCTGTCCTCCCGTGGT
20384	I		A	CGCTCACTGGTCCCTTGCAGCCAT
20384	P	C	A	ATGACGTGGCAGACCCCCTCTGTCCCAGY
20384	P	A	A	CGCGCCGAGGACCCTCTGTCCCAGAY
20384	T	C	A	CGGGTCTGGGACAGAGGGGTGGCTGCAAGGGACCAGTGAGCGCC
20384	T	A	A	CGGGTCTGGGACAGAGGGTTGGCTGCAAGGGACCAGTGAGCGCC
				GCCAGGCCGTGGACAGGTGTGCACCCACGCCACCTGGCGCTCACTGGTCCCTTGCAGCCA[CA]CCCTCTGTCCCAGACCCGGCCCGAGGGCTGGGGCGC
20384	IS	[CA]		GTCTGGTGTGAGGCCCCTGCTCCT
20392	I		S	ACCTTGCTCCTTCCTCCACCTGGGGT
20392	P	C	S	ATGACGTGGCAGACGGCTCCAGCACCTY
20392	P	T	S	CGCGCCGAGGAGCTCCAGCACCTGY
20392	T	C	S	GGCACAGGTGCTGGAGCCCCCCAGGTGGAGGAAGGAGCAAGGTGG
20392	T	T	S	GGCACAGGTGCTGGAGCTCCCCAGGTGGAGGAAGGAGCAAGGTGG
				CCAGCCTCAGTGAAGAGTGGCACTGGGGCCTGTCACAGGTGGGGGCACAGGTGCTGGAGC[CT]CCCCAGGTGGAGGAAGGAGCAAGGTGGCAGCCCCT
20392	IS	[CT]		CGGGTGGGCACACCCTGCAGTGCCT
20434	I		A	GTATGGAGATTTGCTCATTGAACTGAGCTTGGTCATTCTCTTT
20434	P	A	A	CGCGCCGAGGAGTTAACTCCTGTCCAAAGY
20434	P	G	A	ATGACGTGGCAGACGGTTAACTCCTGTCCAAAGY
20434	T	A	A	ATCACTTTGGACAGGAGTTAACTAAGAGAATGACCAAGCTCAGTTCAATGAGCAAATCTCCATACCG
20434	T	G	A	ATCACTTTGGACAGGAGTTAACCAAGAGAATGACCAAGCTCAGTTCAATGAGCAAATCTCCATACCG
				AAAAGAAAGAAAGAAACGGTATGGAGATTTGCTCATTGAACTGAGCTTGGTCATTCTCTT[AG]GTTAACTCCTGTCCAAAGTGATGATGGAATCTTTATTGTA
20434	IS	[AG]		CTTTTTCATAGATCCGAGTA
20477	I		A	GGTGAGCCTTCCTGCCCGTCCCT
20477	P	G	A	ATGACGTGGCAGACGTCAGCTCGAGGCCY
20477	P	A	A	CGCGCCGAGGATCAGCTCGAGGCCY
20477	T	G	A	TGTGGGCCTCGAGCTGACGGGACGGGCAGGAAGGCTCACCTA
20477	T	A	A	TGTGGGCCTCGAGCTGATGGGACGGGCAGGAAGGCTCACCTA
				AGGGCTCCCCTGTTGGCTCTGACTTGCTGTCCTCGGTAGGTGAGCCTTCCTGCCCGTCCC[GA]TCAGCTCGAGGCCCACAGCCCCTCACCCCTCTTCCCA
20477	IS	[GA]		AGAGCACCCTGACACAGTCACAC
20480	I		A	ACGAGGAGTGGCCCTGCCCCTC
20480	P	G	A	ATGACGTGGCAGACGAGGGCGCATCGTY
20480	P	T	A	CGCGCCGAGGTAGGGCGCATCGTGY
20480	T	G	A	CCTGCACGATGCGCCCTCAGGGGCAGGGCCACTCCTCGTCT
20480	T	T	A	CCTGCACGATGCGCCCTAAGGGGCAGGGCCACTCCTCGTCT
				ACCAGGGCCACCCCGGTGACCTGCAGGAGAGGAAGGCAGACGAGGAGTGGCCCTGCCCCT[GT]AGGGCGCATCGTGCAGGTGGCACAAGGGGGTCATC
20480	IS	[GT]		TGCATCCTGGTCAAGGGGGAGCCCA
20537	I		S	CCAGGTGCTGCGTCACACTCAGGGT
20537	P	G	S	ATGACGTGGCAGACCTCAGACAAGGCCTTCTY
20537	P	T	S	CGCGCCGAGGATCAGACAAGGCCTTCTY
20537	T	G	S	GCCCAGAAGGCCTTGTCTGAGCCCTGAGTGTGACGCAGCACCTGGCC
20537	T	T	S	GCCCAGAAGGCCTTGTCTGATCCCTGAGTGTGACGCAGCACCTGGCC
				AATTTCCAGGACACCCACATGGGCTCCAGGTGAAGCAGGGCCCAGAAGGCCTTGTCTGA[GT]CCCTGAGTGTGACGCAGCACCTGGCCACTAGGGGGAG
20537	IS	[GT]		GCAAACTCTGTGAATCCTAAGGG
20540	I		A	GTCACATAATCGACGTGGACTTCAGCCATCTCCAT
20540	P	G	A	ATGACGTGGCAGACGTCACCTCCATGTGCY
20540	P	A	A	CGCGCCGAGGATCACCTCCATGTGCAY
20540	T	G	A	TCTGTGCACATGGAGGTGACTGGAGATGGCTGAAGTCCACGTCGATTATGTGACAC
20540	T	A	A	TCTGTGCACATGGAGGTGATTGGAGATGGCTGAAGTCCACGTCGATTATGTGACAC
				ACAAGGCCTTCACCCTGACTCACAGTGTCACATAATCGACGTGGACTTCAGCCATCTCCA[GA]TCACCTCCATGTGCACAGAGCTCTCATGGTACATGTGCT
20540	IS	[GA]		TGGCTGCCCTAGAAAGAGAGA
20554	I		S	CACAGGTGGGGCTGGAGAAGCCACT
20554	P	T	S	CGCGCCGAGGAAGCCTGCTAGCCATY
20554	P	C	S	ATGACGTGGCAGACGAGCCTGCTAGCCATY
20554	T	T	S	GGACATGGCTAGCAGGCTTGTGGCTTCTCCAGCCCCACCTGTGCC
20554	T	C	S	GGACATGGCTAGCAGGCTCGTGGCTTCTCCAGCCCCACCTGTGCC

FIGURE 129E

				GAGTACCGCAGGGGTCTGGCTAGGCACCTAGTTGGGAACAGCGGACATGGCTAGCAGGCT[TC]GTGGCTTCTCCAGCCCCACCTGTGCCTGGGTCTTGGA
20554	IS	[TC]		GGGGTGGCAGGGTCACCAGGTCA
20555	I		S	TGCCATTGTTTCCTCACCTGTTGGGGAGTTTTTGA
20555	P	A	S	CGCGCCGAGGTCTCTGCACTTAATAGCCCY
20555	P	G	S	ATGACGTGGCAGACCCTCTGCACTTAATAGCCY
20555	T	A	S	AGATGGGCTATTAAGTGCAGAGACAAAAACTCCCCAACAGGTGAGGAAACAATGGCATA
20555	T	G	S	AGATGGGCTATTAAGTGCAGAGGCAAAAACTCCCCAACAGGTGAGGAAACAATGGCATA
20555	IS	[AG]		CAAACCTAGCCCTCCAGGAGCGGGAAGAAATGAAAACAAGATGGGCTATTAAGTGCAGAG[AG]CAAAAACTCCCCAACAGGTGAGGAAACAATGGCATAGA ATTACTTGTGTTCAGAAGAATT
20566	I		S	TGTGGGTAGGGGCAGCTGCTTCCAAGT
20566	P	T	S	CGCGCCGAGGACCTCCTGATTTGAGGAAY
20566	P	G	S	ATGACGTGGCAGACCCCTCCTGATTTGAGGAY
20566	T	T	S	CCCCTTCCTCAAATCAGGAGGTCTTGGAAGCAGCTGCCCCTACCCACAGG
20566	T	G	S	CCCCTTCCTCAAATCAGGAGGGCTTGGAAGCAGCTGCCCCTACCCACAGG
20566	IS	[TG]		TTGGCCTACCTGGGACTCTGTTCTCTTCGCTCTGCTGCTCCCCTTCCTCAAATCAGGAGG[TG]CTTGGAAGCAGCTGCCCCTACCCACAGGCCAGAAGTTC TGGTTCTCCACCAGATAATCAG
20625	I		A	GGCTTTCAGAGGTAAACCAGGCAAAAGAAGCCCT
20625	P	A	A	CGCGCCGAGGATGCCCTGATAAAGCTTATGY
20625	P	C	A	ATGACGTGGCAGACCTGCCCTGATAAAGCTTATY
20625	T	A	A	TCAACATAAGCTTTATCAGGGCATGGGCTTCTTTTGCCTGGTTTACCTCTGAAAGCCTC
20625	T	C	A	TCAACATAAGCTTTATCAGGGCAGGGGCTTCTTTTGCCTGGTTTACCTCTGAAAGCCTC
20625	IS	[AC]		TGTACTGGGCAGTTGCCCAAGAGCTGAGGCTTTCAGAGGTAAACCAGGCAAAAGAAGCCC[AC]TGCCCTGATAAAGCTTATGTTGAAGGCTGCATCTCTGG CCAGGAATGAGCATCTCTCTTA
20631	I		A	TGGCCCTGCCCTCCAGCCACT
20631	P	C	A	CGCGCCGAGGCCTTCTCTCCGTCTGCY
20631	P	G	A	ATGACGTGGCAGACGCTTCTCTCCGTCTGCY
20631	T	C	A	TGGGGCAGACGGAGAGAAGGGTGGCTGGAGGGCAGGGCCAGG
20631	T	G	A	TGGGGCAGACGGAGAGAAGCGTGGCTGGAGGGCAGGGCCAGG
20631	IS	[CG]		GGTGGTGCTCTACAAGTACCGCTGCTACAAGGTGAGGCCCTGGCCCTGCCCTCCAGCCAC[CG]CTTCTCTCCGTCTGCCCCACACCATGGCGGCAGGGCC CGTGAAACAGCCGCCTTTAGAAA
20667	I		A	CCACTCCTGAGAGCTACAGGTAGGTCTTGGTGC
20667	P	G	A	ATGACGTGGCAGACGGCTTAGAAGGGGACAY
20667	P	T	A	CGCGCCGAGGTGCTTAGAAGGGGACAGY
20667	T	G	A	TGGACTGTCCCCTTCTAAGCCCACCAAGACCTACCTGTAGCTCTCAGGAGTGGGG
20667	T	T	A	TGGACTGTCCCCTTCTAAGCACACCAAGACCTACCTGTAGCTCTCAGGAGTGGGG
20667	IS	[GT]		TACCCCACTTACATGTTTTGCCCTGACCCCACTCCTGAGAGCTACAGGTAGGTCTTGGTG[GT]GCTTAGAAGGGGACAGTCCAAATTGGCCTATCCCCCCC AAGCATGTCCCTGTTGGTCATC
20707	I		S	CAGTTCCCTGAGTATGGTGGCCACATCATACTTGTAACA
20707	P	A	S	CGCGCCGAGGTCTAAACTCCATAAATCTCCAAAY
20707	P	G	S	ATGACGTGGCAGACCCTAAACTCCATAAATCTCCAAY
20707	T	A	S	GACCTTTGGAGATTTATGGAGTTTAGAGTTACAAGTATGATGTGGCCACCATACTCAGGGAACTGGA
20707	T	G	S	GACCTTTGGAGATTTATGGAGTTTAGGGTTACAAGTATGATGTGGCCACCATACTCAGGGAACTGGA
20707	IS	[AG]		GGTCACTTGATCCAATCTTTGATGTTCACCGTGGGACCTTTGGAGATTTATGGAGTTTAG[AG]GTTACAAGTATGATGTGGCCACCATACTCAGGGAACTGG ATGACAGTCAGCCGATGGGTT
20738	I		A	GGATGGAACCTCTGGGAGGTAAACAACTGTGAATTAGAATAAGAT
20738	P	A	A	CGCGCCGAGGATTGGCTTTGCCAGCY
20738	P	G	A	ATGACGTGGCAGACGTTGGCTTTGCCAGCY
20738	T	A	A	ACTAGCTGGCAAAGCCAATTCTTATTCTAATTCACAGTTGTTTACCTCCCAGAGGTTCCATCCAA
20738	T	G	A	ACTAGCTGGCAAAGCCAACTCTTATTCTAATTCACAGTTGTTTACCTCCCAGAGGTTCCATCCAA
20738	IS	[AG]		AAGAAAATTCTCTATTGGATGGAACCTCTGGGAGGTAAACAACTGTGAATTAGAATAAGA[AG]TTGGCTTTGCCAGCTAGTTCTGTCTATTCTCCTAAAAACC ATCACCTCCTATGGAGGTAG
20784	I		A	CAGATCTTGCTGGAGAAAGCCTCCTCATCCCTAC
20784	P	T	A	CGCGCCGAGGTGCCATTGCTTCCACY
20784	P	G	A	ATGACGTGGCAGACGGCCATTGCTTCCACY
20784	T	T	A	TGTGGTGGAAGCAATGGCATAGGGATGAGGAGGCTTTCTCCAGCAAGATCTGTC
20784	T	G	A	TGTGGTGGAAGCAATGGCCTAGGGATGAGGAGGCTTTCTCCAGCAAGATCTGTC
20784	IS	[TG]		GAATTGCAAGACCATGCCATTCAGTGACAGATCTTGCTGGAGAAAGCCTCCTCATCCCTA[TG]GCCATTGCTTCCACCACAAAAGCCCCTGTGGGATGGCAC TAATGGAGGACTTGTGCGGAT
20810	I		A	GGGCTATCTCAGAGGATCCAACACCCACATAAAGAAAAAGTAA
20810	P	C	A	ATGACGTGGCAGACCTCATGACACTGAAGGCY
20810	P	T	A	CGCGCCGAGGTTCATGACACTGAAGGCY
20810	T	C	A	TGATGCCTTCAGTGTCATGAGTACTTTTTCTTTATGTGGGTGTTGGATCCTCTGAGATAGCCCTT
20810	T	T	A	TGATGCCTTCAGTGTCATGAATACTTTTTCTTTATGTGGGTGTTGGATCCTCTGAGATAGCCCTT
20810	IS	[CT]		CTACTCCAGGCACACAAAGGGCTATCTCAGAGGATCCAACACCCACATAAAGAAAAAGTA[CT]TCATGACACTGAAGGCATCATCTCTTCTCTTCATTTTTGC TTTCTTCTCTGAGCTACAGG
20818	I		S	ACAACATAATTCCAATAGTGTATTTTCAAAGCCAAATATAAATCATCTGTTATTTAAATTT
20818	P	T	S	CGCGCCGAGGATTAATTTAGGTCATCAAAAGTTGTY
20818	P	C	S	ATGACGTGGCAGACGTTAATTTAGGTCATCAAAAGTTGTY
20818	T	T	S	TGCAACAACTTTTGATGACCTAAATTAATAATTTAAATAACAGATGATTTATATTTGGCTTTGAAAATACACTATTGGAATTATGTTGT
20818	T	C	S	TGCAACAACTTTTGATGACCTAAATTAACAATTTAAATAACAGATGATTTATATTTGGCTTTGAAAATACACTATTGGAATTATGTTGT
20818	IS	[TC]		CTATATGACACATCTTATTTCATCTCCCGCAATGCAACAACTTTTGATGACCTAAATTAA[TC]AATTTAAATAACAGATGATTTATATTTGGCTTTGAAAATACA CTATTGGAATTATGTTGT
20911	I		S	ACTGCACAGCGTCACCCTGCATTTGCT
20911	P	T	S	CGCGCCGAGGAGGGAAGATGGTCCCY
20911	P	C	S	ATGACGTGGCAGACGGGGAAGATGGTCCCY
20911	T	T	S	CCAGGGGACCATCTTCCCTGCAAATGCAGGGTGACGCTGTGCAGTGG
20911	T	C	S	CCAGGGGACCATCTTCCCCGCAAATGCAGGGTGACGCTGTGCAGTGG
20911	IS	[TC]		ATAGTCCAACCTCTTTGTTCTGTGGTTGCTGAATAGCATCCCCCAGGGGACCATCTTCCC[TC]GCAAATGCAGGGTGACGCTGTGCAGTGGTTTCTCTGCC ATCATCTTTTCTCTGCTGGGGA
20966	I		A	GGAGGGACTTTGGAAGTTAGCTACCGCTTTGGAAT
20966	P	A	A	CGCGCCGAGGATGGTATTCAAAGTTCCAAGAY
20966	P	G	A	ATGACGTGGCAGACGTGGTATTCAAAGTTCCAAGAY
20966	T	A	A	TTTTTCTTGGAACTTTGAATACCATTTCCAAAGCGGTAGCTAACTTCCAAAGTCCCTCCAA
20966	T	G	A	TTTTTCTTGGAACTTTGAATACCACTTCCAAAGCGGTAGCTAACTTCCAAAGTCCCTCCAA
20966	IS	[AG]		GGCGGTCTCCCTCGCCATAGCATCTTGGAGGGACTTTGGAAGTTAGCTACCGCTTTGGAA[AG]TGGTATTCAAAGTTCCAAGAAAAACGAAAAAAACACTGA TCCCTCTTTTCAAATCTTATG
20969	I		A	CTCAGTCTGCTGGGAGTCTTTTGCACATGCATAGAAAAT
20969	P	G	A	ATGACGTGGCAGACGAGCCTTGGGAATGATGY
20969	P	C	A	CGCGCCGAGGCAGCCTTGGGAATGATGY
20969	T	G	A	CTCTCATCATTCCCAAGGCTCTTTTCTATGCATGTGCAAAAGACTCCCAGGAGACTGAGGC
20969	T	C	A	CTCTCATCATTCCCAAGGCTGTTTTCTATGCATGTGCAAAAGACTCCCAGGAGACTGAGGC
20969	IS	[GC]		AATTTGGCATCTTTCTCAAGGCCTCAGTCTCCTGGGAGTCTTTTGCACATGCATAGAAAA[GC]AGCCTTGGGAATGATGAGAGCAGATGCTTCTGGGACCAG TGGAGGGATGAGGGTGACTTG
21084	I		S	CTGGGTCTGACATTCTCCTTGGTCAGAGGTCAAAC
21084	P	A	S	CGCGCCGAGGTTGTTCCATGAAGATGAAGAY
21084	P	T	S	ATGACGTGGCAGACATGTTCCATGAAGATGAAGACY
21084	T	A	S	GTGAGTCTTCATCTTCATGGAACAATTTGACCTCTGACCAAGGAGAATGTCAGACCCAGAA

FIGURE 129E

21084	T	T	S	GTGAGTCTTCATCTTCATGGAACATTTTGACCTCTGACCAAGGAGAATGTCAGACCCAGAA
21084	IS	[AT]		CACGAGGAAGCTTCGTTTTAGCTGGTTATTAATTCAGTGAGTCTTCATCTTCATGGAACA[AT]TTTGACCTCTGACCAAGGAGAATGTCAGACCCAGAAAAAT ATTCTGAGTTGATGCTAAAT
21284	I		S	AGCCACCCTCGGGGAACAGAAACGAC
21284	P	A	S	CGCGCCGAGGTGTCCACAGTGGCAAY
21284	P	C	S	ATGACGTGGCAGACGGTCCACAGTGGCAY
21284	T	A	S	ATCGTTGCCACTGTGGACATCGTTTCTGTTCCCCGAGGGTGGCTGT
21284	T	C	S	ATCGTTGCCACTGTGGACCTCGTTTCTGTTCCCCGAGGGTGGCTGT
21284	IS	[AC]		TATGGGCTACATTGATTAGGCCTCAGTGCAGGAAGATGGAGGATCGTTGCCACTGTGGAC[AC]TCGTTTCTGTTCCCCGAGGGTGGCTGTCACTGATGACT GCCTTCCACTCAATCCAAAGGC
21332	I		A	GCCTGAGACCCAGCAGCAAAGATCCCTTTTTTGT
21332	P	G	A	ATGACGTGGCAGACGTTTCATGTCTCATGCCTY
21332	P	A	A	CGCGCCGAGGATTTCATGTCTCATGCCTTY
21332	T	G	A	AGGAAAGGCATGAGACATGAAACCAAAAAAGGGATCTTTGCTGCTGGGTCTCAGGCAA
21332	T	A	A	AGGAAAGGCATGAGACATGAAATCAAAAAAGGGATCTTTGCTGCTGGGTCTCAGGCAA
21332	IS	[GA]		TCCCAGGACAAACCTCTTCCTTGTGTTGCCTGAGACCCAGCAGCAAAGATCCCTTTTTTG[GA]TTTCATGTCTCATGCCTTTCCTGCTGATTTTTAATGCTGC CTCCGAACACACCAGCTCAG
21382	I		A	CAACTCTGAGACTAACTGTAGGTGTTGGTAGAGAAAAGTGTATGGAAT
21382	P	A	A	CGCGCCGAGGAGCATGAGCCACTGCY
21382	P	G	A	ATGACGTGGCAGACGGCATGAGCCACTGY
21382	T	A	A	CATAGCAGTGGCTCATGCTTTCCATACACTTTTCTCTACCAACACCTACAGTTAGTCTCAGAGTTGTT
21382	T	G	A	CATAGCAGTGGCTCATGCCTTCCATACACTTTTCTCTACCAACACCTACAGTTAGTCTCAGAGTTGTT
21382	IS	[AG]		TCATGATAAAGAACAACTCTGAGACTAACTGTAGGTGTTGGTAGAGAAAAGTGTATGGAA[AG]GCATGAGCCACTGCTATGGTGCTAATGAGCCTGAGCCCC TGAGGCACAGACTTGTACAGG
21403	I		S	GCCATCAGGGGCCGGGCT
21403	P	T	S	CGCGCCGAGGATGGTGGCTCACACCY
21403	P	C	S	ATGACGTGGCAGACGTGGTGGCTCACACY
21403	T	T	S	TACAGGTGTGAGCCACCATGCCCGGCCCCTGATGGCTA
21403	T	C	S	TACAGGTGTGAGCCACCACGCCCGGCCCCTGATGGCTA
21403	IS	[TC]		CTCAGGTGATTCACCTGCCTTGGCCTCCCAAAGTGCTGGGATTACAGGTGTGAGCCACCA[TC]GCCCGGCCCCTGATGGCTACTTATTACCAAGGCTATGA AACAATCAGTTTCATAGCCTTA
21605	I		S	GTGTTGCCCAGGCTGCCCTTGAACTCT
21605	P	G	S	CGCGCCGAGGCTGGGCTCAAGCAATCY
21605	P	C	S	ATGACGTGGCAGACGTGGGCTCAAGCAATCY
21605	T	G	S	GGTGGATTGCTTGAGCCCAGGAGTTCAAGGGCAGCCTGGGCAACACAG
21605	T	C	S	GGTGGATTGCTTGAGCCCACGAGTTCAAGGGCAGCCTGGGCAACACAG
21605	IS	[GC]		GCCTCATGCCTGTAATCCCAGCACTTTTGGAGGCCAAGGTGGGTGGATTGCTTGAGCCCA[GC]GAGTTCAAGGGCAGCCTGGGCAACACAGTGGAACCCC ATCTCCACAAAAAAGTACAAAAC
21612	I		A	TGACCCAAGATCAGAAACCTTTTCTCTCCTCTGAGCAA
21612	P	C	A	ATGACGTGGCAGACCCCTCCTCTGTCTCCY
21612	P	T	A	CGCGCCGAGGTCCTCCTCTGTCTCCAY
21612	T	C	A	GGAATGGAGACAGAGGAGGGTGCTCAGAGGAGAGAAAAGGTTTCTGATCTTGGGTCAGT
21612	T	T	A	GGAATGGAGACAGAGGAGGATGCTCAGAGGAGAGAAAAGGTTTCTGATCTTGGGTCAGT
21612	IS	[CT]		GCCCTGGTCCCCAGAGTGGGCACTGACCCAAGATCAGAAACCTTTTCTCTCCTCTGAGCA[CT]CCTCCTCTGTCTCCATTCCTTATCTTCTGCTTTCCCTCC CACAGGGCTTCCAGAGCGACC
21616	I		A	GCAATCTCGGCTCACTGCAACCTCCGA
21616	P	T	A	CGCGCCGAGGTCTCCCGGGTTCAAGY
21616	P	C	A	ATGACGTGGCAGACCCTCCCGGGTTCAAY
21616	T	T	A	ATCACTTGAACCCGGGAGACGGAGGTTGCAGTGAGCCGAGATTGCAC
21616	T	C	A	ATCACTTGAACCCGGGAGGCGGAGGTTGCAGTGAGCCGAGATTGCAC
21616	IS	[TC]		TCTTGCTCTGTCACCCAGGCTGGAGTGCAGTGGTGCAATCTCGGCTCACTGCAACCTCCG[TC]CTCCCGGGTTCAAGTGATTCTCCTGCCTCAGCCTCCTG AGTAACTGGGACTATAGACACG
21645	I		S	GCATCCTGAGATTTTACAAAAGGGACGTCCTT
21645	P	G	S	CGCGCCGAGGCTCTCACATGAGCCTCAY
21645	P	C	S	ATGACGTGGCAGACGTCTCACATGAGCCTCAY
21645	T	G	S	ATTTTGAGGCTCATGTGAGAGAGGACGTCCCTTTTGTAAAATCTCAGGATGCAA
21645	T	C	S	ATTTTGAGGCTCATGTGAGACAGGACGTCCCTTTTGTAAAATCTCAGGATGCAA
21645	IS	[GC]		CAATTTATGAGACAGTGGCACAAGGCTTTTCTTTATTTTAATTTTGAGGCTCATGTGAGA[GC]AGGACGTCCCTTTTGTAAAATCTCAGGATGCAAAATACCT TTTCTTCCATTCTGGAAAAC
21646	I		S	CCACGCCCAGCCCATGTCATGTTTTAAGCA
21646	P	A	S	CGCGCCGAGGTTCACGTCATGTTTTCCAY
21646	P	G	S	ATGACGTGGCAGACCTCACGTCATGTTTTCCAY
21646	T	A	S	ATTCTGGAAAACATGACGTGAAGCTTAAAAACATGACATGGGCTGGGCGTGGTG
21646	T	G	S	ATTCTGGAAAACATGACGTGAGGCTTAAAAACATGACATGGGCTGGGCGTGGTG
21646	IS	[AG]		CTTTTGTAAAATCTCAGGATGCAAAATACCTTTTCTTCCATTCTGGAAAACATGACGTGA[AG]GCTTAAAAACATGACATGGGCTGGGCGTGGTGGCTCATG CCTGTAATCCCAGCACTTTGG
21728	I		A	AGCCAGGTGTGGGCTCCTGGGTA
21728	P	C	A	ATGACGTGGCAGACCCCGCCTGTGGGY
21728	P	T	A	CGCGCCGAGGTCCGCCTGTGGGTY
21728	T	C	A	AGCGACCCACAGGCGGGACCCAGGAGCCCACACCTGGCTAG
21728	T	T	A	AGCGACCCACAGGCGGAACCCAGGAGCCCACACCTGGCTAG
21728	IS	[CT]		GGGAACTCCTGAGCCAGGTGTGGTGGGCGGGATCTGCTAGCCAGGTGTGGGCTCCTGGGT[CT]CCGCCTGTGGGTCGCTGGGAGGTGGGTCCAGTCTG AGCGCCCCTCCCTGTCCACAGGTGG
21758	I		A	CGGTAATAAATCTGTGTTGGCCCCTGTGCCTT
21758	P	G	A	ATGACGTGGCAGACGAGTCCCACGGATGGY
21758	P	C	A	CGCGCCGAGGCAGTCCCACGGATGGY
21758	T	G	A	CTGGCCATCCGTGGGACTCAGGCACAGGGGCCAACACAGATTTATTACCGGA
21758	T	C	A	CTGGCCATCCGTGGGACTGAGGCACAGGGGCCAACACAGATTTATTACCGGA
21758	IS	[GC]		CCTTTGCACCAATTACCTTTTCAGATTTCCGGTAATAAATCTGTGTTGGCCCCTGTGCCT[GC]AGTCCCACGGATGGCCAGTAGGGGGCGCTGGAGGACTG CGGGGATCTAGGGCCTGGCTGG
21915	I		S	CAGAGGAAAGCAAGCAGTGAGTGTCTTTGAAAA
21915	P	G	S	ATGACGTGGCAGACCTTGGTACTCCTGGGTTY
21915	P	A	S	CGCGCCGAGGTTTGGTACTCCTGGGTTY
21915	T	G	S	CCAAAACCCAGGAGTACCAAGTTTCAAAGACACTCACTGCTTGCTTTCCTCTGAA
21915	T	A	S	CCAAAACCCAGGAGTACCAAATTTCAAAGACACTCACTGCTTGCTTTCCTCTGAA
21915	IS	[GA]		TATACCCCAACAAAGAAATGTTAATTGGTCTAGAACTGACCCAAAACCCAGGAGTACCAA[GA]TTTCAAAGACACTCACTGCTTGCTTTCCTCTGAAAATGTC TACAGTCAACACAAAATAGA
22004	I		S	CCATTCAACACCTCTAATCTTCAGGCCCCACTCTAACT
22004	P	G	S	ATGACGTGGCAGACCCCCTCAGCCGGY
22004	P	T	S	CGCGCCGAGGACCCTCAGCCGGY
22004	T	G	S	TCTCCCGGCTGAGGGGGTTAGAGTGGGGCCTGAAGATTAGAGGTGTTGAATGGAG
22004	T	T	S	TCTCCCGGCTGAGGGTGTTAGAGTGGGGCCTGAAGATTAGAGGTGTTGAATGGAG
22004	IS	[GT]		GTGAACTATTCCCAGCTCGTGGAAGGGCTGCCATCTGGGAAGGGATCTCCCGGCTGAGGG[GT]GTTAGAGTGGGGCCTGAAGATTAGAGGTGTTGAATGG AGGCACAAAGGACTTGAGTGAGC
22019	I		S	CCTCGGAGAGAGGGTTCGCAGGCTT
22019	P	C	S	ATGACGTGGCAGACGACGGTCTCCCTGCY
22019	P	T	S	CGCGCCGAGGAACGGTCTCCCTGCY
22019	T	C	S	GTGGGCAGGGAGACCGTCAGCCTGCGAACCCTCTCTCCGAGGTC
22019	T	T	S	GTGGGCAGGGAGACCGTTAGCCTGCGAACCCTCTCTCCGAGGTC

CYP4F8

FIGURE 129E

				CGGCCCGGGGGCCGACTCCACGGGCTGATTTCCGAAAAGGGTGGTGGGCAGGGAGACCGT[CT]AGCCTGCGAACCCTCTCTCCGAGGTCGGCCCTCTAC
22019	IS	[CT]		TTGCTTCCGGTTGCCTAGAAGCCG
22034	I		S	TCTTTTCACTCAACATTTGACTTTTGAACCTGGTCTGTAA
22034	P	A	S	CGCGCCGAGGTTGCTCCGTGCAGAY
22034	P	G	S	ATGACGTGGCAGACCTGCTCCGTGCAGAY
22034	T	A	S	TTGGTCTGCACGGAGCAATACAGACCAGGTTCAAAAGTCAAATGTTGAGTGAAAAGAGT
22034	T	G	S	TTGGTCTGCACGGAGCAGTACAGACCAGGTTCAAAAGTCAAATGTTGAGTGAAAAGAGT
				AACTATTTCTATGGCACAAGGAGACATATCAAATGAATGAACATTGGTCTGCACGGAGCA[AG]TACAGACCAGGTTCAAAAGTCAAATGTTGAGTGAAAAGAG
22034	IS	[AG]		TAAGTTGTAGGATGTTCCAC
22170	I		A	CGACATCCGCCCGCAAGAGCATGGA
22170	P	C	A	ATGACGTGGCAGACCGGGTGCCGGAGY
22170	P	T	A	CGCGCCGAGGTGGGTGCCGGAGY
22170	T	C	A	GGAGCTCCGGCACCCGCCATGCTCTTGCGGGCGGATGTCGCT
22170	T	T	A	GGAGCTCCGGCACCCACCATGCTCTTGCGGGCGGATGTCGCT
				GCGGCACTACACTGATCCGCACACGGAGATACACAGCGACATCCGCCCGCAAGAGCATGG[CT]GGGTGCCGGAGCTCCCGGCTGTGGGCCCAGGAACTA
22170	IS	[CT]		CATTTCCTAGAAGGATGTGCTAGA
22247	I		A	GCCTTTCAAAGGGTACAAAACCTTCTCCTTGATTTTTTATTAA
22247	P	T	A	CGCGCCGAGGTGAACAGTTATATCCTTTAATGTCY
22247	P	C	A	ATGACGTGGCAGACCGAACAGTTATATCCTTTAATGTCY
22247	T	T	A	CTGGGACATTAAAGGATATAACTGTTCATAATAAAAAATCAAGGAGAAGGTTTTGTACCCTTTGAAAGGCAT
22247	T	C	A	CTGGGACATTAAAGGATATAACTGTTCGTAATAAAAAATCAAGGAGAAGGTTTTGTACCCTTTGAAAGGCAT
				TCCTTCTAAAGAGGTTATGCCTTTCAAAGGGTACAAAACCTTCTCCTTGATTTTTTATTA[TC]GAACAGTTATATCCTTTAATGTCCCAGAATTGTTCTTGGAA
22247	IS	[TC]		GTTGGAGACTCACAAGAGG
22415	I		S	GGAGTCATACAGATCTGCAAATTTGTGCGTTTTAATTTTACGGTAATGTA
22415	P	G	S	ATGACGTGGCAGACCTAACATGTTGCAGGGTTY
22415	P	A	S	CGCGCCGAGGTTAACATGTTGCAGGGTTY
22415	T	G	S	GAAGAACCCTGCAACATGTTAGACATTACCGTAAAATTAAAACGCACAAATTTGCAGATCTGTATGACTCCCA
22415	T	A	S	GAAGAACCCTGCAACATGTTAAACATTACCGTAAAATTAAAACGCACAAATTTGCAGATCTGTATGACTCCCA
				AAGCCCTGCCTCTTCTCCCTCTATTGGGACTGGTCCCCTGAAGAACCCTGCAACATGTTA[GA]ACATTACCGTAAAATTAAAACGCACAAATTTGCAGATCTG
22415	IS	[GA]		TATGACTCCCAGTGTAATTG
22423	I		S	AGCAAAACCCTGTCTCTACTAAAAATACTAAAATTAGCCAGGTGTGGC
22423	P	A	S	CGCGCCGAGGTGGCGCAAACCTGTY
22423	P	C	S	ATGACGTGGCAGACGGGCGCAAACCTGY
22423	T	A	S	GATTACAGGTTTGCGCCACCACACCTGGCTAATTTTAGTATTTTTAGTAGAGACAGGGTTTTGCTAT
22423	T	C	S	GATTACAGGTTTGCGCCCCCACACCTGGCTAATTTTAGTATTTTTAGTAGAGACAGGGTTTTGCTAT
				GGGGTTCAAGCAATTCTCCTGCCTCAGCCTCCCAAGTAGCTAGGATTACAGGTTTGCGCC[AC]CCACACCTGGCTAATTTTAGTATTTTTAGTAGAGACAGG
22423	IS	[AC]		GTTTTGCTATGTTGGCCAGGC
22436	I		A	CTTTAGGGTAGCATCTAGCTCTCTGCTGGAGCAAT
22436	P	C	A	CGCGCCGAGGCCCTTCCAGGGAGACY
22436	P	G	A	ATGACGTGGCAGACGCCTTCCAGGGAGACY
22436	T	C	A	GTGAGTCTCCCTGGAAGGGTTGCTCCAGCAGAGAGCTAGATGCTACCCTAAAGTG
22436	T	G	A	GTGAGTCTCCCTGGAAGGCTTGCTCCAGCAGAGAGCTAGATGCTACCCTAAAGTG
				CCCTTGAAGACCTATGAAATAAGACACTTTAGGGTAGCATCTAGCTCTCTGCTGGAGCAA[CG]CCTTCCAGGGAGACTCACGCCTGTGCAAGTTTGAGTACC
22436	IS	[CG]		ACTGCCTCCCAAGAGCTGATT
22462	I		A	GGGCCACCCTACTGCCTCATGGGAT
22462	P	G	A	ATGACGTGGCAGACGCCTCACTTCAGCCCY
22462	P	A	A	CGCGCCGAGGACCTCACTTCAGCCCY
22462	T	G	A	TCCCGGGCTGAAGTGAGGCTCCCATGAGGCAGTAGGGTGGCCCAG
22462	T	A	A	TCCCGGGCTGAAGTGAGGTTCCCATGAGGCAGTAGGGTGGCCCAG
				CCAGAGCAGCAAAAGCTGAAGCAGCTCCCCCAGGCTGGGCCACCCTACTGCCTCATGGGA[GA]CCTCACTTCAGCCCGGGAGTTGGCAGGGCAGGCAGA
22462	IS	[GA]		CACCAGCACCCCATCCCATCCAGA
22633	I		S	CTTCACCATCCCCCAGGTGATGTCTGATCACA
22633	P	G	S	ATGACGTGGCAGACCCTGGCCTGTCTTCTAY
22633	P	A	S	CGCGCCGAGGTCTGGCCTGTCTTCTACY
22633	T	G	S	TCTTGTAGAAGACAGGCCAGGGTGATCAGACATCACCTGGGGGATGGTGAAGGA
22633	T	A	S	TCTTGTAGAAGACAGGCCAGAGTGATCAGACATCACCTGGGGGATGGTGAAGGA
				CTGGGGTAAGAGGGATTCTGGCTAAAATGACCTAGAGGAATCTTGTAGAAGACAGGCCAG[GA]GTGATCAGACATCACCTGGGGGATGGTGAAGGATGAA
22633	IS	[GA]		GACCCTGATCAGATATCAAAGAT
22820	I		A	CCCACCAGGCCCACACCATAGCCA
22820	P	C	A	ATGACGTGGCAGACCAGCACCCCTCCATAAY
22820	P	T	A	CGCGCCGAGGTAGCACCCCTCCATAACY
22820	T	C	A	CCTGGTTATGGAGGGGTGCTGGGCTATGGTGTGGGCCTGGTGGGGG
22820	T	T	A	CCTGGTTATGGAGGGGTGCTAGGCTATGGTGTGGGCCTGGTGGGGG
				AACTCCAACACAGCTCCCGCTCCCCAAGCCAGCATCCCCCACCAGGCCCACACCATAGCC[CT]AGCACCCCTCCATAACCAGGACAAGGTGGCCAGAGAAG
22820	IS	[CT]		GGGTAGGGGGCCTCCCCCATGA
22885	I		A	GATGTCTGTGCCAGGCACACCCGTT
22885	P	G	A	ATGACGTGGCAGACGGCAACGGGAGGTY
22885	P	A	A	CGCGCCGAGGAGCAACGGGAGGTGY
22885	T	G	A	TGGTCACCTCCCGTTGCCACGGGTGTGCCTGGCACAGACATCCA
22885	T	A	A	TGGTCACCTCCCGTTGCTACGGGTGTGCCTGGCACAGACATCCA
				CATGCAGGGGGGAGGGTGGCTCAGCCCTGGGAGCTGGATGTCTGTGCCAGGCACACCCGT[GA]GCAACGGGAGGTGACCAGACAGAGTCTAGCCCTAAG
22885	IS	[GA]		GAAGGGGGAGGTACTGAAAGCCAA
22938	I		S	CCACAGGTGTCCAGTAAATCCCCACAACAAGCTTAA
22938	P	A	S	CGCGCCGAGGTGAAGTAGGTGCTATTTGTCY
22938	P	G	S	ATGACGTGGCAGACCGAAGTAGGTGCTATTTGTY
22938	T	A	S	AGGGGACAAATAGCACCTACTTCATAAGCTTGTTGTGGGGATTTACTGGACACCTGTGGCA
22938	T	G	S	AGGGGACAAATAGCACCTACTTCGTAAGCTTGTTGTGGGGATTTACTGGACACCTGTGGCA
				ACTTCACTTCTTGGAGACTCAACTCCTCTGCCTGTAAAGGGGACAAATAGCACCTACTTC[AG]TAAGCTTGTTGTGGGGATTTACTGGACACCTGTGGCACG
22938	IS	[AG]		TGTAAAGTGCCTGGTACACAG
23012	I		A	GGTGCAAGGCAGGCTTACAGCATGCTT
23012	P	C	A	CGCGCCGAGGCCCTGTCCACCCAGY
23012	P	G	A	ATGACGTGGCAGACGCCTGTCCACCCAGY
23012	T	C	A	GCCTCTGGGTGGACAGGGAGCATGCTGTAAGCCTGCCTTGCACCCT
23012	T	G	A	GCCTCTGGGTGGACAGGCAGCATGCTGTAAGCCTGCCTTGCACCCT
				GGTGGTGGTTGTTTCTAGGAGACCCACCCAGGAGGGTGCAAGGCAGGCTTACAGCATGCT[CG]CCTGTCCACCCAGAGGCACCCTCCCCGAGCCCAGTAC
23012	IS	[CG]		CAACCTCAAGGCTGCGGATCTCC
23015	I		A	CAGGCACAAGGGGGACTGGCTGTGA
23015	P	C	A	ATGACGTGGCAGACCGGGTCTGACCACAGY
23015	P	T	A	CGCGCCGAGGTGGGTCTGACCACAGY
23015	T	C	A	GATGCTGTGGTCAGACCCGCACAGCCAGTCCCCCTTGTGCCTGCT
23015	T	T	A	GATGCTGTGGTCAGACCCACACAGCCAGTCCCCCTTGTGCCTGCT
				GCTCAGTGCTCAATGATAGTGGTGAAGTTTCTTCAGCAGGCACAAGGGGGACTGGCTGTG[CT]GGGTCTGACCACAGCATCTGCGAAGGCTCTTCCTGCTT
23015	IS	[CT]		GGAGCGCTCCAAGCCCTGGGGA
23042	I		S	GCTGACATCAGAGAGTCTGCCACGATGGTA
23042	P	A	S	CGCGCCGAGGTGGTGCCTCCACACY
23042	P	G	S	ATGACGTGGCAGACCGGTGCCTCCACAY
23042	T	A	S	TGCAGTGTGGAGGCACCAACCATCGTGGCAGACTCTCTGATGTCAGCGT
23042	T	G	S	TGCAGTGTGGAGGCACCGACCATCGTGGCAGACTCTCTGATGTCAGCGT

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FIGURE 129E

			CCTGTGAGGCACTGGGGCTGCCCTGCCTGCCTCATGTGCCCCGTGCAGTGTGGAGGCACC[AG]ACCATCGTGGCAGACTCTCTGATGTCAGCGTGTCTTT
23042 IS	[AG]		CCTCAAAACCAAGAGCCTGTGGG
23075 I		S	AGTATGGGGCAGGGAAGCCCCCAA
23075 P	A	S	CGCGCCGAGGTGCCAGCCTGGGY
23075 P	G	S	ATGACGTGGCAGACCGCCAGCCTGGGY
23075 T	A	S	CTGTCCCAGGCTGGCATGGGGGCTTCCCTGCCCCATACTGA
23075 T	G	S	CTGTCCCAGGCTGGCGTGGGGGCTTCCCTGCCCCATACTGA
			CCCGAGAGGGGTTCTCCTTCTCTTGCTCCAAAAAGGTCCCCTCTCCTGTCCCAGGCTGGC[AG]TGGGGGCTTCCCTGCCCCATACTGAGGGCCGAGGCCC
23075 IS	[AG]		TGGGTGGCTGCTGTCATGCCATC
23142 I		S	CCCCCGAGATGGGTGGATTGGCAT
23142 P	C	S	ATGACGTGGCAGACGAGCCCAGCGTCCY
23142 P	T	S	CGCGCCGAGGAAGCCCAGCGTCCY
23142 T	C	S	GGAGGGACGCTGGGCTCTGCCAATCCACCCATCTCGGGGGCA
23142 T	T	S	GGAGGGACGCTGGGCTTTGCCAATCCACCCATCTCGGGGGCA
			CAGGGACAGGGAGAGACCCCGACCTGGCCATGCCACAGGAGGGTGGAGGGACGCTGGGCT[CT]TGCCAATCCACCCATCTCGGGGGCAGGGGTTAGGA
23142 IS	[CT]		CCTGGAGGGACGGAGACAACACCAA
23177 I		A	GCCCCCTACGCCCACACCACACT
23177 P	A	A	CGCGCCGAGGAGGACCTCGGGACTY
23177 P	G	A	ATGACGTGGCAGACGGGACCTCGGGACY
23177 T	A	A	CCTGAGTCCCGAGGTCCTGTGTGGTGTGGGCGTAGGGGGCCC
23177 T	G	A	CCTGAGTCCCGAGGTCCCGTGTGGTGTGGGCGTAGGGGGCCC
			AGAAAACCCAGAGACGGGACCCATGTACCAGGCCAGGGGCCCCCTACGCCCACACCACAC[AG]GGACCTCGGGACTCAGGCGCCACACTGCCTAAGGCC
23177 IS	[AG]		ATGAGCCTGAGACAAGCTGATCCC
23346 I		A	TCCACGAATAGAGAGGCTGCCCTGTGTGTT
23346 P	A	A	CGCGCCGAGGACAGCTGCCCGGY
23346 P	G	A	ATGACGTGGCAGACGCAGCTGCCCGGY
23346 T	A	A	TTAGCCGGGCAGCTGTACACACAGGGCAGCCTCTCTATTCGTGGAAT
23346 T	G	A	TTAGCCGGGCAGCTGCACACACAGGGCAGCCTCTCTATTCGTGGAAT
			GTTGAGGATTCTGACCTCACACATCCCTGATTCCACGAATAGAGAGGCTGCCCTGTGTGT[AG]CAGCTGCCCGGCTAATTAATTGCTTTTATTTGTAGTAAAT
23346 IS	[AG]		AAACTCTTCAAATGCAGGAG
4072 I		A	GCACAGCGTGAGCTTTCCTTCCCACAAAGAGA
4072 P	T	A	CGCGCCGAGGTGATATTTTCCAGTGTGGACC
4072 P	C	A	CGCGCCGAGGCGATATTTTCCAGTGTGGACCY
4072 T	T	A	GATGGGTCCACACTGGAAAATATCGCTCTTTGTGGGAAGGAAAGCTCACGCTGTGCTC
4072 T	C	A	GATGGGTCCACACTGGAAAATATCGCTCTTTGTGGGAAGGAAAGCTCACGCTGTGCTC
			TGTACTCCTATAAAGGAGAGCACAGCGTGAGCTTTCCTTCCCACAAAGAG[TC]GATATTTTCCAGTGTGGACCCATCAGTGGAACCAGGATGGTTAAAGGCA
4072 IS	[TC]		G
4076 I		S	TCTTTTGGAGATTCCACTCCGCGCCATATAACATATGCG
4076 P	INS	S	CGCGCCGAGGTACACAGTGTACCACAGTCT
4076 P	DEL	S	CGCGCCGAGGTACAGTGTACCACAGTCTCC
4076 T	INS	S	CAAGGGAGACTGTGGTACACTGTGTAGCATATGTTATATGGCGCGGAGTGGAATCTCCAAAAGAAA
4076 T	DEL	S	CAAGGGAGACTGTGGTACACTGTAGCATATGTTATATGGCGCGGAGTGGAATCTCCAAAAGAAA
			TGATAAGAAAAAATTACTCGCTTGATTCAAGGGAGACTGTGGTACACTGT[-GT]AGCATATGTTATATGGCGCGGAGTGGAATCTCCAAAAGAAAGACTCCCCA
4076 IS	[-GT]		
4106 I		A	CTCCCCTCCCCTCTGGCCCTGCT
4106 P	INS	A	CGCGCCGAGGACGGTGGGTTGGCTAY
4106 P	DEL	A	CGCGCCGAGGAGGTGGGTTGGCTACTAGY
4106 T	INS	A	GGTACTAGTAGCCAACCCACCGTGCAGGGCCAGAGGGGAGGGGAGGG
4106 T	DEL	A	GGTACTAGTAGCCAACCCACCTGCAGGGCCAGAGGGGAGGGGAGGG
			CTTCTCTTCCTGTCCCCCTGGTTCACCCTCCCCTCCCCTCTGGCCCTGCA[-C]GGTGGGTTGGCTACTAGTACCCTGGCTACCGTGGGCTGCAGTACCTGCTG
4106 IS	[-C]		
4745 I		S	TGTGCAAATCTATCAGAGGAGGTGGCTTTTCACACCAT
4745 P	T	S	CGCGCCGAGGAGGCAATATTTTTAATCAAGAGTGTGY
4745 P	C	S	CGCGCCGAGGGGGCAATATTTTTAATCAAGAGTGTY
4745 T	T	S	AGGCCACACTCTTGATTAAAAATATTGCCTTGGTGTGAAAAGCCACCTCCTCTGATAGATTTGCACAGC
4745 T	C	S	AGGCCACACTCTTGATTAAAAATATTGCCCTGGTGTGAAAAGCCACCTCCTCTGATAGATTTGCACAGC
			CCTGTCATGACAGTTTTCTGGAGGCCACACTCTTGATTAAAAATATTGCC[TC]TGGTGTGAAAAGCCACCTCCTCTGATAGATTTGCACAGCTCCAGAAGCCT
4745 IS	[TC]		
4758 I		S	TTTTGCTGACATCGGAATCAGTAACTTGGATGAGTGCACTA
4758 P	G	S	CGCGCCGAGGCCTTGGCTCTTCCACTGA
4758 P	A	S	CGCGCCGAGGTCTTGGCTCTTCCACTGA
4758 T	G	S	CAAGTCAGTGGAAGAGCCAAGGAGTGCACTCATCCAAGTTACTGATTCCGATGTCAGCAAAACC
4758 T	A	S	CAAGTCAGTGGAAGAGCCAAGAAGTGCACTCATCCAAGTTACTGATTCCGATGTCAGCAAAACC
			CAGATCAGGGGACTTACTGCATGACACAGCAAGTCAGTGGAAGAGCCAAG[GA]AGTGCACTCATCCAAGTTACTGATTCCGATGTCAGCAAAACCTGCTGA
4758 IS	[GA]		AA
4791 I		S	TCCATTTCATTTCTGTGCTTTTTCAACAGAATTTACAAAGAAAACATTTCA
4791 P	G	S	CGCGCCGAGGCATTTTCACTTGTCCACTTAACAGY
4791 P	A	S	CGCGCCGAGGTATTTTCACTTGTCCACTTAACAGAY
4791 T	G	S	GTTATCTGTTAAGTGGACAAGTGAAAATGGAAATGTTTTCTTTGTAAATTCTGTTGAAAAAGCACAGAAATGAAATGGA
4791 T	A	S	GTTATCTGTTAAGTGGACAAGTGAAAATAGAAATGTTTTCTTTGTAAATTCTGTTGAAAAAGCACAGAAATGAAATGGA
			AGTATCTAAAAGACATTTGATAGTTATCTGTTAAGTGGACAAGTGAAAAT[GA]GAAATGTTTTCTTTGTAAATTCTGTTGAAAAAGCACAGAAATGAAATGGA
4791 IS	[GA]		
4833 I		S	GCAGACTCCAGCACCAGGAGCTGATGCT
4833 P	INS	S	CGCGCCGAGGCCAGACTTGTTTAGTCCAACAY
4833 P	DEL	S	CGCGCCGAGGCGACTTGTTTAGTCCAACACAY
4833 T	INS	S	CACCTGTGTTGGACTAAACAAGTCTGGGCATCAGCTCCTGGTGCTGGAGTCTGCCT
4833 T	DEL	S	CACCTGTGTTGGACTAAACAAGTCGGCATCAGCTCCTGGTGCTGGAGTCTGCCT
			TCCGTCTTCTTTTCAGCTGACTTCATCACCTGTGTTGGACTAAACAAGTC[TG-]GGCATCAGCTCCTGGTGCTGGAGTCTGCCTGGGCTGGGAGCCGCCACATG
4833 IS	[TG-]		
6938 I		A	TTTATATATGAATTGGGTTTTGATAAGTCATCCTTTTTTTTTCTTTTCACC
6938 P	T	A	CGCGCCGAGGTTGTTACCACTTTAAAACAGCTG
6938 P	A	A	CGCGCCGAGGATGTTACCACTTTAAAACAGCTGT
6938 T	T	A	ACAGACAGCTGTTTTAAAGTGGTAACAAGTGAAAAGAAAAAAAAAGGATGACTTATCAAAACCCAATTCATATATAAA
6938 T	A	A	ACAGACAGCTGTTTTAAAGTGGTAACATGTGAAAAGAAAAAAAAAGGATGACTTATCAAAACCCAATTCATATATAAA
			TTTATATATGAATTGGGTTTTGATAAGTCATCCTTTTTTTTTCTTTTCAC[TA]TGTTACCACTTTAAAACAGCTGTCTGTCTCATAATCAGTGGCAACTGCTT
6938 IS	[TA]		
6940 I		S	ACATGTTGGGCTTATATCGCAGAGGTTTTTCCATTATTAGCCCATTAA
6940 P	G	S	CGCGCCGAGGCAGAGAGTGTCCTCATGC
6940 P	A	S	CGCGCCGAGGTAGAGAGTGTCCTCATGCC
6940 T	G	S	AAAAGGCATGAGGACACTCTCTGTAATGGGCTAATAATGGAAAAACCTCTGCGATATAAGCCCAACATGTAT
6940 T	A	S	AAAAGGCATGAGGACACTCTCTATAATGGGCTAATAATGGAAAAACCTCTGCGATATAAGCCCAACATGTAT
			ATAAAAATTTAAAAATGAAAAAATAAAAAAAAGGCATGAGGACACTCTCT[GA]TAATGGGCTAATAATGGAAAAACCTCTGCGATATAAGCCCAACATGTATT
6940 IS	[GA]		
6992 I		A	CCTGTGTGGTTAGAGAAAGCGAGTGAATGATGAAGT
6992 P	G	A	CGCGCCGAGGGCATTGTGACACCGTGT
6992 P	A	A	CGCGCCGAGGACATTGTGACACCGTGTTAG
6992 T	G	A	TAGCCTAACACGGTGTCACAATGCCTTCATCATTCACTCGCTTTCTCTAACCACACAGGCA
6992 T	A	A	TAGCCTAACACGGTGTCACAATGTCTTCATCATTCACTCGCTTTCTCTAACCACACAGGCA

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FIGURE 129E

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                                GTGAGATATAAAATGCCTGTGTGGTTAGAGAAAGCGAGTGAATGATGAAG[GA]CATTGTGACACCGTGTTAGGCTACTGTTGACCTTCTGATGTCGGGAGG
6992 IS     [GA]                AT
7034 I                      A   GGTTTTCTTCAGCAAGAAAAGGAATCCAGGCTGGGGAATAG
7034 P      INS             A   CGCGCCGAGGTCATTCCTGGAGGACGTC
7034 P      DEL             A   CGCGCCGAGGTTCCTGGAGGACGTCC
7034 T      INS             A   TCCTAAGGACGTCCTCCAGGAATGATATTCCCCAGCCTGGATTCCTTTTCTTGCTGAAGAAAACCCA
7034 T      DEL             A   TCCTAAGGACGTCCTCCAGGAATATTCCCCAGCCTGGATTCCTTTTCTTGCTGAAGAAAACCCA
                                AAATGGATGGGTTTTCTTCAGCAAGAAAAGGAATCCAGGCTGGGGAATAT]-
7034 IS     [-CAT]              CAT]TCCTGGAGGACGTCCTTAGGAACGGTTCGATTATCAGTTGTTCTTTGACG
7077 I                      A   CCATCGGCACGGAGATTGCTCTCTGGATGATCT
7077 P      A               A   CGCGCCGAGGACACAAGCGGATGCTG
7077 P      G               A   CGCGCCGAGGGCACAAGCGGATGCT
7077 T      A               A   CCTGCAGCATCCGCTTGTGTGATCATCCAGAGAGCAATCTCCGTGCCGATGGTC
7077 T      G               A   CCTGCAGCATCCGCTTGTGCGATCATCCAGAGAGCAATCTCCGTGCCGATGGTC
                                CCACTGTTTGTCTAATGACCATCGGCACGGAGATTGCTCTCTGGATGATC[AG]CACAAGCGGATGCTGCAGGCCCCTTGTCTTTGCTGCTTACCCACAAGG
7077 IS     [AG]                GG
7079 I                      A   AATACATATTCTTTTGATTGTTATTAAATAATTATAACTGACAGGCACTCA
7079 P      C               A   CGCGCCGAGGCATTTATGCCCCAACCCA
7079 P      T               A   CGCGCCGAGGTATTTATGCCCCAACCCAAAA
7079 T      C               A   TAATTTTTGGGTTGGGGCATAAATGGAGTGCCTGTCAGTTATAATTATTTAATAACAATCAAAAGAATATGTATT
7079 T      T               A   TAATTTTTGGGTTGGGGCATAAATAGAGTGCCTGTCAGTTATAATTATTTAATAACAATCAAAAGAATATGTATT

7079 IS     [CT]                AATACATATTCTTTTGATTGTTATTAAATAATTATAACTGACAGGCACTC[CT]ATTTATGCCCCAACCCAAAAATTATTTTATATTCATCCTAATTCTATAAT
7080 I                      S   TGACATTTAATGCTACTGTCTTTTTGCACATCATTTTTTTAAAATTCCTAC
7080 P      A               S   CGCGCCGAGGTTCCCTATGAGAAGGATTTAATTAGAAA
7080 P      T               S   CGCGCCGAGGATCCCTATGAGAAGGATTTAATTAGAAAT
7080 T      A               S   GCACATTTCTAATTAAATCCTTCTCATAGGGAATAGGAATTTTAAAAAAATGATGTGCAAAAAGACAGTAGCATTAAATGTCA
7080 T      T               S   GCACATTTCTAATTAAATCCTTCTCATAGGGATTAGGAATTTTAAAAAAATGATGTGCAAAAAGACAGTAGCATTAAATGTCA

7080 IS     [AT]                ACCAAAACTGAATCCAGTGCACATTTCTAATTAAATCCTTCTCATAGGGA[AT]TAGGAATTTTAAAAAAATGATGTGCAAAAAGACAGTAGCATTAAATGTCA
7089 I                      S   ATATGTATCAGGCACTATACTCCTAAGAGTATACACATATATTAGATTAGT
7089 P      T               S   CGCGCCGAGGACTACGTGCTAGGTTATGAGG
7089 P      G               S   CGCGCCGAGGCCTACGTGCTAGGTTATGAG
7089 T      T               S   AAATCCTCATAACCTAGCACGTAGTCTAATCTAATATATGTGTATACTCTTAGGAGTATAGTGCCTGATACATAT
7089 T      G               S   AAATCCTCATAACCTAGCACGTAGGCTAATCTAATATATGTGTATACTCTTAGGAGTATAGTGCCTGATACATAT

7089 IS     [TG]                TTATTATGTCTGTCTTGTACATTACTAAATCCTCATAACCTAGCACGTAG[TG]CTAATCTAATATATGTGTATACTCTTAGGAGTATAGTGCCTGATACATAT
7090 I                      A   CCTTAGCCTGTATCTAATCAGGTATAAATTCTCAACCCATTATGTTAAATC
7090 P      G               A   CGCGCCGAGGGACTTTTCCTCTTAATCTTAGTTTTGGGY
7090 P      T               A   CGCGCCGAGGTACTTTTCCTCTTAATCTTAGTTTTGGGY
7090 T      G               A   CCTCCCCAAAACTAAGATTAAGAGGAAAAGTCATTTAACATAATGGGTTGAGAATTTATACCTGATTAGATACAGGCTAAGG
7090 T      T               A   CCTCCCCAAAACTAAGATTAAGAGGAAAAGTAATTTAACATAATGGGTTGAGAATTTATACCTGATTAGATACAGGCTAAGG

7090 IS     [GT]                CCTTAGCCTGTATCTAATCAGGTATAAATTCTCAACCCATTATGTTAAAT[GT]ACTTTTCCTCTTAATCTTAGTTTTGGGGAGGTGAAGTTAGAGTCCTGACA
7105 I                      S   TCACCATCTCTGCCCCTACCTGCACTACCAA
7105 P      G               S   CGCGCCGAGGCCCCTGAGCCAGTGGY
7105 P      A               S   CGCGCCGAGGTCCCTGAGCCAGTGGY
7105 T      G               S   ATACCCACTGGCTCAGGGGTGGTAGTGCAGGTAGGGGCAGAGATGGTGAGG
7105 T      A               S   ATACCCACTGGCTCAGGGATGGTAGTGCAGGTAGGGGCAGAGATGGTGAGG
                                GAGAAGGGATTTTCCCAGACATAGATGGTCACATACCCACTGGCTCAGGG[GA]TGGTAGTGCAGGTAGGGGCAGAGATGGTGAGGGAGGAGGAACCTTTT
7105 IS     [GA]                GCA
7111 I                      S   GTGATCTGTGATAACAGCCCTAGGAAACACAAATGGGGACT
7111 P      T               S   CGCGCCGAGGATGAACATTCAGTCATCACATGT
7111 P      C               S   CGCGCCGAGGGTGAACATTCAGTCATCACATG
7111 T      T               S   ACTTACATGTGATGACTGAATGTTCATGTCCCCATTTGTGTTTCCTAGGGCTGTTATCACAGATCACAG
7111 T      C               S   ACTTACATGTGATGACTGAATGTTCACGTCCCCATTTGTGTTTCCTAGGGCTGTTATCACAGATCACAG

7111 IS     [TC]                GGAGATAAAGCCTCAGATTTTATGACTTACATGTGATGACTGAATGTTCA[TC]GTCCCCATTTGTGTTTCCTAGGGCTGTTATCACAGATCACAGCTACAGTA
7112 I                      A   CAGCCCACTCTGGTGACTTCATCTTCACTTGATCATCTGA
7112 P      C               A   CGCGCCGAGGCAAAGACCCTTGTGAGATGAT
7112 P      T               A   CGCGCCGAGGTAAAGACCCTTGTGAGATGATG
7112 T      C               A   ATATCATCATCTCACAAGGGTCTTTGCAGATGATCAAGTGAAGATGAAGTCACCAGAGTGGGCTGTA
7112 T      T               A   ATATCATCATCTCACAAGGGTCTTTACAGATGATCAAGTGAAGATGAAGTCACCAGAGTGGGCTGTA

7112 IS     [CT]                ATCTTGGATTACAGCCCACTCTGGTGACTTCATCTTCACTTGATCATCTG[CT]AAAGACCCTTGTGAGATGATGATATTTATCAATTGGTTTTCCTCCACCGT
7115 I                      S   CCAAAATAATGAAAATAAGGGCACAAAAAAATTCTCAAAGTTGGAAGTCAA
7115 P      A               S   CGCGCCGAGGTATGAACAAGTGGTAAATGACTTAGC
7115 P      G               S   CGCGCCGAGGCATGAACAAGTGGTAAATGACTTAG
7115 T      A               S   ATCTGCTAAGTCATTTACCACTTGTTCATATGACTTCCAACTTTGAGAATTTTTTTGTGCCCTTATTTTCATTATTTTGG
7115 T      G               S   ATCTGCTAAGTCATTTACCACTTGTTCATGTGACTTCCAACTTTGAGAATTTTTTTGTGCCCTTATTTTCATTATTTTGG

7115 IS     [AG]                TTCCATACTTCCAGCAGAAGAATCTGCTAAGTCATTTACCACTTGTTCAT[AG]TGACTTCCAACTTTGAGAATTTTTTTGTGCCCTTATTTTCATTATTTTGG
7117 I                      A   TCACACAATCCCATTCATTCCTTCCCCGCCAAGC
7117 P      INS             A   CGCGCCGAGGGTATCATTCACCTTACCTGACAG
7117 P      DEL             A   CGCGCCGAGGGATCATTCACCTTACCTGACAG
7117 T      INS             A   TTCATCTGTCAGGTAAGGTGAATGATACCTTGGCGGGGAAGGAATGAATGGGATTGTGTGAAC
7117 T      DEL             A   TTCATCTGTCAGGTAAGGTGAATGATCCTTGGCGGGGAAGGAATGAATGGGATTGTGTGAAC
                                CCCCTCATGGACCTGTTCACACAATCCCATTCATTCCTTCCCCGCCAAGG[T-
7117 IS     [T-]                ]ATCATTCACCTTACCTGACAGATGAAGAGACTGAGGCTCAGAGAGGCTGG
7140 I                      S   GGAGATCAAAGCGCCTGGTGAGGCA
7140 P      A               S   CGCGCCGAGGTGTGTGATAATTACTCGGCC
7140 P      G               S   CGCGCCGAGGCGTGTGATAATTACTCGGCC
7140 T      A               S   ACAAGGCCGAGTAATTATCACACAGCCTCACCAGGCGCTTTGATCTCCTA
7140 T      G               S   ACAAGGCCGAGTAATTATCACACGGCCTCACCAGGCGCTTTGATCTCCTA
                                CCAAATAACAAAAACACACACAGGGTGACAAGGCCGAGTAATTATCACAC[AG]GCCTCACCAGGCGCTTTGATCTCCTAATCAATTCTTCTGAGCGTCCCAC
7140 IS     [AG]                A
7146 I                      A   TATTCTATAGCATTAGCAAGGTAGAATGTCATAGATATTAAGGAATCCATA
7146 P      T               A   CGCGCCGAGGTTCATTGTAGCTAATAATCTTTTTGCAT
7146 P      C               A   CGCGCCGAGGCTCATTGTAGCTAATAATCTTTTTGCA
7146 T      T               A   ATACATGCAAAAAGATTATTAGCTACAATGAAATGGATTCCTTAATATCTATGACATTCTACCTTGCTAATGCTATAGAATA
7146 T      C               A   ATACATGCAAAAAGATTATTAGCTACAATGAGATGGATTCCTTAATATCTATGACATTCTACCTTGCTAATGCTATAGAATA

7146 IS     [TC]                TATTCTATAGCATTAGCAAGGTAGAATGTCATAGATATTAAGGAATCCAT[TC]TCATTGTAGCTAATAATCTTTTTGCATGTATAGCCAATGCAAATGTACAA
7153 I                      S   CGGATGTAATGTTCACCTTGCCCCTCACCAGTCT
7153 P      T               S   CGCGCCGAGGAGAAGCATGGAATTGCTGAC
7153 P      C               S   CGCGCCGAGGGGAAGCATGGAATTGCTGA
7153 T      T               S   GCTTGTCAGCAATTCCATGCTTCTGACTGGTGAGGGGCAAGGTGAACATTACATCCGCA
7153 T      C               S   GCTTGTCAGCAATTCCATGCTTCCGACTGGTGAGGGGCAAGGTGAACATTACATCCGCA
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FIGURE 129E

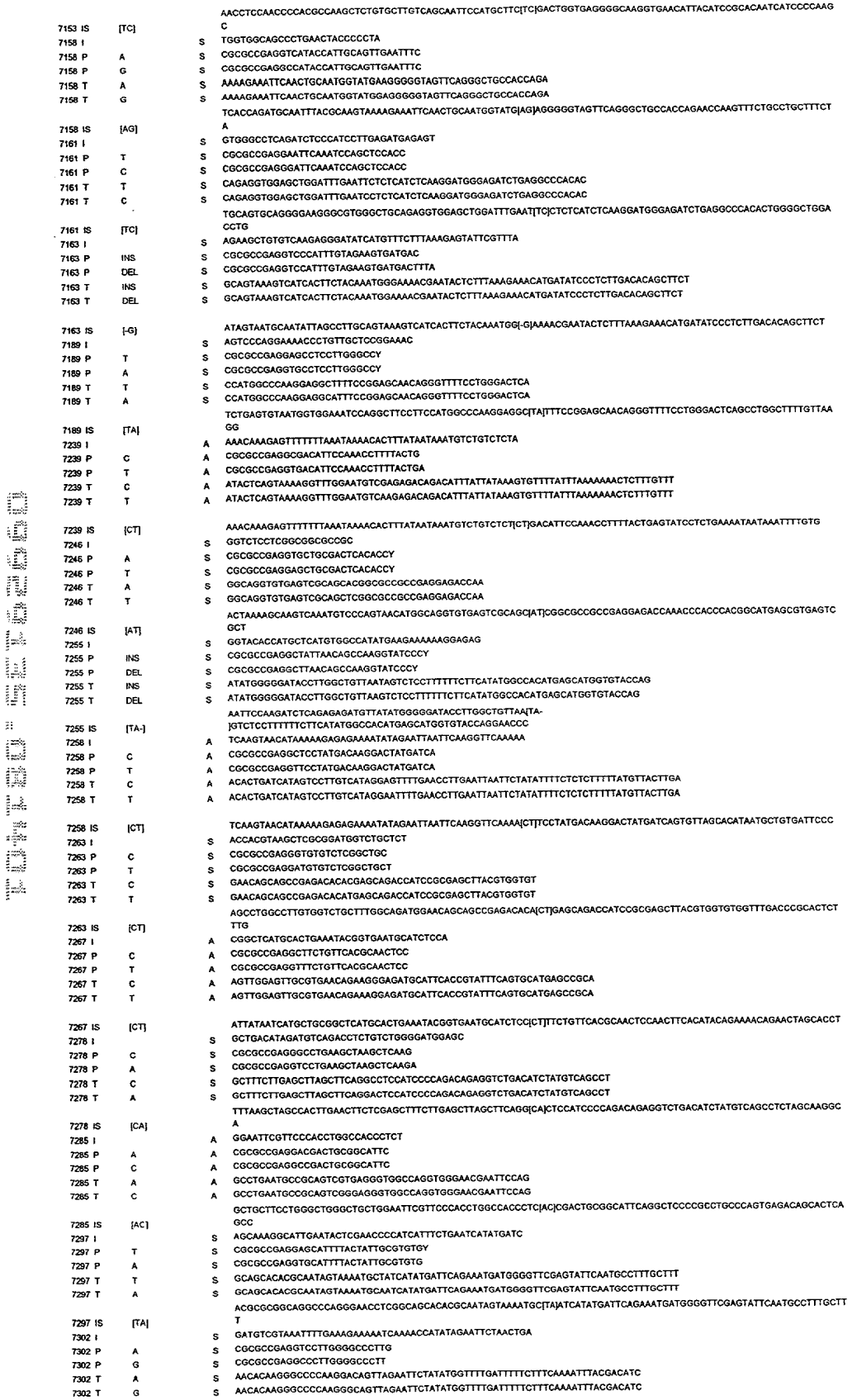

AACCTCCAACCCCACGCCAAGCTCTGTGCTTGTCAGCAATTCCATGCTTC[TC]GACTGGTGAGGGGCAAGGTGAACATTACATCCGCACAATCATCCCCAAG
7153 IS [TC] C
7158 I S TGGTGGCAGCCCTGAACTACCCCCTA
7158 P A S CGCGCCGAGGTCATACCATTGCAGTTGAATTTC
7158 P G S CGCGCCGAGGCCATACCATTGCAGTTGAATTTC
7158 T A S AAAAGAAATTCAACTGCAATGGTATGAAGGGGGTAGTTCAGGGCTGCCACCAGA
7158 T G S AAAAGAAATTCAACTGCAATGGTATGGAGGGGGTAGTTCAGGGCTGCCACCAGA
TCACCAGATGCAATTTACGCAAGTAAAAGAAATTCAACTGCAATGGTATG[AG]AGGGGGTAGTTCAGGGCTGCCACCAGAACCAAGTTTCTGCCTGCTTTCT
7158 IS [AG] A
7161 I S GTGGGCCTCAGATCTCCCATCCTTGAGATGAGAGT
7161 P T S CGCGCCGAGGAATTCAAATCCAGCTCCACC
7161 P C S CGCGCCGAGGGATTCAAATCCAGCTCCACC
7161 T T S CAGAGGTGGAGCTGGATTTGAATTCTCTCATCTCAAGGATGGGAGATCTGAGGCCCACAC
7161 T C S CAGAGGTGGAGCTGGATTTGAATCCTCTCATCTCAAGGATGGGAGATCTGAGGCCCACAC
TGCAGTGCAGGGGAAGGGCGTGGGCTGCAGAGGTGGAGCTGGATTTGAAT[TC]CTCTCATCTCAAGGATGGGAGATCTGAGGCCCACACTGGGGCTGGA
7161 IS [TC] CCTG
7163 I S AGAAGCTGTGTCAAGAGGGATATCATGTTTCTTTAAAGAGTATTCGTTTA
7163 P INS S CGCGCCGAGGTCCCATTTGTAGAAGTGATGAC
7163 P DEL S CGCGCCGAGGTCCATTTGTAGAAGTGATGACTTTA
7163 T INS S GCAGTAAAGTCATCACTTCTACAAATGGGAAAACGAATACTCTTTAAAGAAACATGATATCCCTCTTGACACAGCTTCT
7163 T DEL S GCAGTAAAGTCATCACTTCTACAAATGGAAAACGAATACTCTTTAAAGAAACATGATATCCCTCTTGACACAGCTTCT
ATAGTAATGCAATATTAGCCTTGCAGTAAAGTCATCACTTCTACAAATGG[-G]AAAACGAATACTCTTTAAAGAAACATGATATCCCTCTTGACACAGCTTCT
7163 IS [-G] A
7189 I S AGTCCCAGGAAAACCCTGTTGCTCCGGAAAC
7189 P T S CGCGCCGAGGAGCCTCCTTGGGCCY
7189 P A S CGCGCCGAGGTGCCTCCTTGGGCCY
7189 T T S CCATGGCCCAAGGAGGCTTTTCCGGAGCAACAGGGTTTTCCTGGGACTCA
7189 T A S CCATGGCCCAAGGAGGCATTTCCGGAGCAACAGGGTTTTCCTGGGACTCA
TCTGAGTGTAATGGTGGAAATCCAGGCTTCCTTCCATGGCCCAAGGAGGC[TA]TTTCCGGAGCAACAGGGTTTTCCTGGGACTCAGCCTGGCTTTTGTTAA
7189 IS [TA] GG
7239 I A AAACAAAGAGTTTTTTTAAATAAAACACTTTATAATAAATGTCTGTCTCTA
7239 P C A CGCGCCGAGGCGACATTCCAAACCTTTTACTG
7239 P T A CGCGCCGAGGTGACATTCCAAACCTTTTACTGA
7239 T C A ATACTCAGTAAAAGGTTTGGAATGTCGAGAGACAGACATTTATTATAAAGTGTTTTATTTAAAAAAACTCTTTGTTT
7239 T T A ATACTCAGTAAAAGGTTTGGAATGTCAAGAGACAGACATTTATTATAAAGTGTTTTATTTAAAAAAACTCTTTGTTT
AAACAAAGAGTTTTTTTAAATAAAACACTTTATAATAAATGTCTGTCTCT[CT]GACATTCCAAACCTTTTACTGAGTATCCTCTGAAAATAATAAATTTTGTG
7239 IS [CT] GGTCTCCTCGGCGGCGCCGC
7246 I S CGCGCCGAGGTGCTGCGACTCACACCY
7246 P A S CGCGCCGAGGAGCTGCGACTCACACCY
7246 P T S GGCAGGTGTGAGTCGCAGCACGGCGCCGCCGAGGAGACCAA
7246 T A S GGCAGGTGTGAGTCGCAGCTCGGCGCCGCCGAGGAGACCAA
ACTAAAAGCAAGTCAAATGTCCCAGTAACATGGCAGGTGTGAGTCGCAGC[AT]CGGCGCCGCCGAGGAGACCAAACCCACCCACGGCATGAGCGTGAGTC
7246 IS [AT] GCT
7255 I S GGTACACCATGCTCATGTGGCCATATGAAGAAAAAAGGAGAG
7255 P INS S CGCGCCGAGGCTATTAACAGCCAAGGTATCCCY
7255 P DEL S CGCGCCGAGGCTTAACAGCCAAGGTATCCCY
7255 T INS S ATATGGGGGATACCTTGGCTGTTAATAGTCTCCTTTTTTCTTCATATGGCCACATGAGCATGGTGTACCAG
7255 T DEL S ATATGGGGGATACCTTGGCTGTTAAGTCTCCTTTTTTCTTCATATGGCCACATGAGCATGGTGTACCAG
AATTCCAAGATCTCAGAGAGATGTTATATGGGGGATACCTTGGCTGTTAA[TA-
7255 IS [TA-]]GTCTCCTTTTTTCTTCATATGGCCACATGAGCATGGTGTACCAGGAACCC
7258 I A TCAAGTAACATAAAAAGAGAGAAAATATAGAATTAATTCAAGGTTCAAAAA
7258 P C A CGCGCCGAGGCTCCTATGACAAGGACTATGATCA
7258 P T A CGCGCCGAGGTTCCTATGACAAGGACTATGATCA
7258 T C A ACACTGATCATAGTCCTTGTCATAGGAGTTTTGAACCTTGAATTAATTCTATATTTTCTCTCTTTTTATGTTACTTGA
7258 T T A ACACTGATCATAGTCCTTGTCATAGGAATTTTGAACCTTGAATTAATTCTATATTTTCTCTCTTTTTATGTTACTTGA
TCAAGTAACATAAAAAGAGAGAAAATATAGAATTAATTCAAGGTTCAAAA[CT]TCCTATGACAAGGACTATGATCAGTGTTAGCACATAATGCTGTGATTCCC
7258 IS [CT] ACCACGTAAGCTCGCGGATGGTCTGCTCT
7263 I S CGCGCCGAGGGTGTGTCTCGGCTGC
7263 P C S CGCGCCGAGGATGTGTCTCGGCTGCT
7263 P T S GAACAGCAGCCGAGACACACGAGCAGACCATCCGCGAGCTTACGTGGTGT
7263 T C S GAACAGCAGCCGAGACACATGAGCAGACCATCCGCGAGCTTACGTGGTGT
7263 T T S AGCCTGGCCTTGTGGTCTGCTTTGGCAGATGGAACAGCAGCCGAGACACA[CT]GAGCAGACCATCCGCGAGCTTACGTGGTGTGGTTTGACCCGCACTCT
7263 IS [CT] TTG
7267 I A CGGCTCATGCACTGAAATACGGTGAATGCATCTCCA
7267 P C A CGCGCCGAGGCTTCTGTTCACGCAACTCC
7267 P T A CGCGCCGAGGTTTCTGTTCACGCAACTCC
7267 T C A AGTTGGAGTTGCGTGAACAGAAGGGAGATGCATTCACCGTATTTCAGTGCATGAGCCGCA
7267 T T A AGTTGGAGTTGCGTGAACAGAAAGGAGATGCATTCACCGTATTTCAGTGCATGAGCCGCA
ATTATAATCATGCTGCGGCTCATGCACTGAAATACGGTGAATGCATCTCC[CT]TTCTGTTCACGCAACTCCAACTTCACATACAGAAAACAGAACTAGCACCT
7267 IS [CT] GCTGACATAGATGTCAGACCTCTGTCTGGGGATGGAGC
7278 I S CGCGCCGAGGGCCTGAAGCTAAGCTCAAG
7278 P C S CGCGCCGAGGTCCTGAAGCTAAGCTCAAGA
7278 P A S GCTTTCTTGAGCTTAGCTTCAGGCCTCCATCCCCAGACAGAGGTCTGACATCTATGTCAGCCT
7278 T C S GCTTTCTTGAGCTTAGCTTCAGGACTCCATCCCCAGACAGAGGTCTGACATCTATGTCAGCCT
7278 T A S TTTAAGCTAGCCACTTGAACTTCTCGAGCTTTCTTGAGCTTAGCTTCAGG[CA]CTCCATCCCCAGACAGAGGTCTGACATCTATGTCAGCCTCTAGCAAGGC
7278 IS [CA] A
7285 I A GGAATTCGTTCCCACCTGGCCACCCTCT
7285 P A A CGCGCCGAGGACGACTGCGGCATTC
7285 P C A CGCGCCGAGGCCGACTGCGGCATTC
7285 T A A GCCTGAATGCCGCAGTCGTGAGGGTGGCCAGGTGGGAACGAATTCCAG
7285 T C A GCCTGAATGCCGCAGTCGGGAGGGTGGCCAGGTGGGAACGAATTCCAG
GCTGCTTCCTGGGCTGGGCTGCTGGAATTCGTTCCCACCTGGCCACCCTC[AC]CGACTGCGGCATTCAGGCTCCCCGCCTGCCCAGTGAGACAGCACTCA
7285 IS [AC] GCC
7297 I S AGCAAAGGCATTGAATACTCGAACCCCATCATTTCTGAATCATATGATC
7297 P T S CGCGCCGAGGAGCATTTTACTATTGCGTGTGY
7297 P A S CGCGCCGAGGTGCATTTTACTATTGCGTGTG
7297 T T S GCAGCACACGCAATAGTAAAATGCTATCATATGATTCAGAAATGATGGGGTTCGAGTATTCAATGCCTTTGCTTT
7297 T A S GCAGCACACGCAATAGTAAAATGCAATCATATGATTCAGAAATGATGGGGTTCGAGTATTCAATGCCTTTGCTTT
ACGCGCGGCAGGCCCAGGGAACCTCGGCAGCACACGCAATAGTAAAATGC[TA]ATCATATGATTCAGAAATGATGGGGTTCGAGTATTCAATGCCTTTGCTT
7297 IS [TA] T
7302 I S GATGTCGTAAATTTTGAAAGAAAAATCAAAACCATATAGAATTCTAACTGA
7302 P A S CGCGCCGAGGTCCTTGGGGCCCTTG
7302 P G S CGCGCCGAGGCCCTTGGGGCCCTT
7302 T A S AACACAAGGGCCCCAAGGACAGTTAGAATTCTATATGGTTTTGATTTTTCTTTCAAAATTTACGACATC
7302 T G S AACACAAGGGCCCCAAGGGCAGTTAGAATTCTATATGGTTTTGATTTTTCTTTCAAAATTTACGACATC

FIGURE 129E

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7302 IS    [AG]          CGCTTGGGTAGCTCAGTAGAATCTAAGCACAAAACACAAGGGCCCCAAGG[AG]CAGTTAGAATTCTATATGGTTTTGATTTTTCTTTCAAAATTTACGACATC
7311 I           A       TACCAGCATTTCTCAAAACATAAAAAGGTTCTTCAGTCAAATAAATCTTAT
7311 P     G     A       CGCGCCGAGGGAAGCTTTCAGACTGATCTTTTC
7311 P     A     A       CGCGCCGAGGAAAGCTTTCAGACTGATCTTTTCC
7311 T     G     A       CCTGGGAAAAGATCAGTCTGAAAGCTTCTAAGATTTATTTGACTGAAGAACCTTTTTATGTTTTGAGAAATGCTGGTA
7311 T     A     A       CCTGGGAAAAGATCAGTCTGAAAGCTTTTAAGATTTATTTGACTGAAGAACCTTTTTATGTTTTGAGAAATGCTGGTA

7311 IS    [GA]         TACCAGCATTTCTCAAAACATAAAAAGGTTCTTCAGTCAAATAAATCTTA[GA]AAGCTTTCAGACTGATCTTTTCCCAGGCATTCCCAGTGTGCATGAGGGCA
7313 I           A       CGGGTGTCCTTTGGAGGTGATTGAAAGATTCCAAAATTGACTGA
7313 P     T     A       CGCGCCGAGGTGATGATGGTTACACAGCTC
7313 P     C     A       CGCGCCGAGGCGATGATGGTTACACAGCTC
7313 T     T     A       CTCAGAGCTGTGTAACCATCATCACAGTCAATTTTGGAATCTTTCAATCACCTCCAAAGGACACCCGTT
7313 T     C     A       CTCAGAGCTGTGTAACCATCATCGCAGTCAATTTTGGAATCTTTCAATCACCTCCAAAGGACACCCGTT

7313 IS    [TC]         ATGGGAACGGGTGTCCTTTGGAGGTGATTGAAAGATTCCAAAATTGACTG[TC]GATGATGGTTACACAGCTCTGAGAATGTACTAAAAACCAGTGAATTGTG
7317 I           S       CTTTTCTTGGGCTGTGCTTTCAGCCTGCAGATATAACCT
7317 P     T     S       CGCGCCGAGGATTCTGGAGAGCAGTGATG
7317 P     C     S       CGCGCCGAGGGTTCTGGAGAGCAGTGATG
7317 T     T     S       GGGGCATCACTGCTCTCCAGAATGGTTATATCTGCAGGCTGAAAGCACAGCCCAAGAAAAGGC
7317 T     C     S       GGGGCATCACTGCTCTCCAGAACGGTTATATCTGCAGGCTGAAAGCACAGCCCAAGAAAAGGC

7317 IS    [TC]         TTTTGCACCAGCCAAAAATGCGGTTCTGGGGGCATCACTGCTCTCCAGAA[TC]GGTTATATCTGCAGGCTGAAAGCACAGCCCAAGAAAAGGCAAGGAGGA
7322 I           S       GGCCGGACAGATGGCGCCTGACCT
7322 P     C     S       CGCGCCGAGGGAAGTTCCTGGCACCTG
7322 P     T     S       CGCGCCGAGGAAAGTTCCTGGCACCTG
7322 T     C     S       TTTCCAGGTGCCAGGAACTTCGGTCAGGCGCCATCTGTCCGGCCTG
7322 T     T     S       TTTCCAGGTGCCAGGAACTTTGGTCAGGCGCCATCTGTCCGGCCTG

7322 IS    [CT]         TCCTTTCTCCCCTTACTCTGACCTGTGGGTTTTCCAGGTGCCAGGAACTT[CT]GGTCAGGCGCCATCTGTCCGGCCTGAGGGAAGACCTGGCTGGTTTCAG
7328 I           A       GCAGTGCCACAAACCCATCCAACCATTCATTTGTTTT
7328 P     A     A       CGCGCCGAGGATTCAAAAACCACTTCACTACCT
7328 P     G     A       CGCGCCGAGGGTTCAAAAACCACTTCACTACCT
7328 T     A     A       CAGTAGGTAGTGAAGTGGTTTTTGAATAAACAAATGAATGGTTGGATGGGTTTGTGGCACTGCCA
7328 T     G     A       CAGTAGGTAGTGAAGTGGTTTTTGAACAAACAAATGAATGGTTGGATGGGTTTGTGGCACTGCCA

7328 IS    [AG]         CTTTATCCTGAGTGGCAGTGCCACAAACCCATCCAACCATTCATTTGTTT[AG]TTCAAAAACCACTTCACTACCTACTGTGTACATTTCGCCAGACACTGAGC
7348 I           A       TCCTTCTCATGGGGACGAGCGGGACCT
7348 P     INS   A       CGCGCCGAGGCCAGCAAAAGGGGTCTC
7348 P     DEL   A       CGCGCCGAGGCAGCAAAAGGGGTCTCAG
7348 T     INS   A       ACCACTGAGACCCCTTTTGCTGGGGTCCCGCTCGTCCCCATGAGAAGGAGG
7348 T     DEL   A       ACCACTGAGACCCCTTTTGCTGGGTCCCGCTCGTCCCCATGAGAAGGAGG

7348 IS    [C-]         ACTGCTAGGTAGAATGGCCCACCTCCTTCTCATGGGGACGAGCGGGACCC[C-
                        ]AGCAAAAGGGGTCTCAGTGGTTTTCCATGCTTCTGCATCACTGCCTGGGC
7357 I           A       GATTTCAGAATTGTTACCCCTACCTGTCTTCATTCTCTCCGTTTAAAAGC
7357 P     INS   A       CGCGCCGAGGTAAAAGTGTTTATTGCAGTTGTCC
7357 P     DEL   A       CGCGCCGAGGTGTTTATTGCAGTTGTCCTAACC
7357 T     INS   A       AGTAGGGTTAGGACAACTGCAATAAACACTTTTACTTTTAAACGGAGAGAATGAAGACAGGTAGGGGTAACAATTCTGAAATC
7357 T     DEL   A       AGTAGGGTTAGGACAACTGCAATAAACACTTTTAAACGGAGAGAATGAAGACAGGTAGGGGTAACAATTCTGAAATC

7357 IS    [-AAAAGT]    GATTTCAGAATTGTTACCCCTACCTGTCTTCATTCTCTCCGTTTAAAAGT]-
                        AAAAGT]GTTTATTGCAGTTGTCCTAACCCTACTTCATCATTGAATATCGGGTCTAT
7358 I           A       CTGCCTGCAAAAGACCCCCTGAATTCAGATGGAA
7358 P     T     A       CGCGCCGAGGTCTGTGGCTATGTTTAAAGGATT
7358 P     C     A       CGCGCCGAGGCCTGTGGCTATGTTTAAAGGAT
7358 T     T     A       AACCAATCCTTTAAACATAGCCACAGATCCATCTGAATTCAGGGGGTCTTTTGCAGGCAGGA
7358 T     C     A       AACCAATCCTTTAAACATAGCCACAGGTCCATCTGAATTCAGGGGGTCTTTTGCAGGCAGGA

7358 IS    [TC]         TGAGACACTGCACTATCCTGCCTGCAAAAGACCCCCTGAATTCAGATGGA[TC]CTGTGGCTATGTTTAAAGGATTGGTTGAGGAGAAAGTTTGCTCCTGGGT
7365 I           S       AGGGAGGGAAAATATCCATGTGCTTTGAGCATATGTTCTTCCTACC
7365 P     INS   S       CGCGCCGAGGTGTCCCCGTGGAAGG
7365 P     DEL   S       CGCGCCGAGGTTCCCCGTGGAAGGGY
7365 T     INS   S       CCTGCCCTTCCACGGGGACAGTAGGAAGAACATATGCTCAAAGCACATGGATATTTTCCCTCCCTAA
7365 T     DEL   S       CCTGCCCTTCCACGGGGAAGTAGGAAGAACATATGCTCAAAGCACATGGATATTTTCCCTCCCTAA

7365 IS    [C-]          AAGAGTGAGGACTATTATTTTAAGTACTTCCCCCTGCCCTTCCACGGGGA[C-]AGTAGGAAGAACATATGCTCAAAGCACATGGATATTTTCCCTCCCTAAAT
7393 I           A       CCAAAGCGGAGCACATGGTAATCACAGTCACCAGTATC
7393 P     INS   A       CGCGCCGAGGTTGTTTCCCTTAATTGCAACTCY
7393 P     DEL   A       CGCGCCGAGGTGTTTCCCTTAATTGCAACTCCY
7393 T     INS   A       TTTAGGAGTTGCAATTAAGGGAAACAAATACTGGTGACTGTGATTACCATGTGCTCCGCTTTGGTT
7393 T     DEL   A       TTTAGGAGTTGCAATTAAGGGAAACAATACTGGTGACTGTGATTACCATGTGCTCCGCTTTGGTT

7393 IS    [T-]          ACCATTTTAAAACCAAAGCGGAGCACATGGTAATCACAGTCACCAGTATT[T-]GTTTCCCTTAATTGCAACTCCTAAAATCAGGGATCCAAGGGACGTCAAAG
7427 I           A       CGCGGGAACCCCGCTTCCTTCCA
7427 P     C     A       CGCGCCGAGGCCTCAGCTGGAGCCAY
7427 P     T     A       CGCGCCGAGGTCTCAGCTGGAGCCAGY
7427 T     C     A       AGGTCTGGCTCCAGCTGAGGGGAAGGAAGCGGGGTTCCCGCGCC
7427 T     T     A       AGGTCTGGCTCCAGCTGAGAGGAAGGAAGCGGGGTTCCCGCGCC

7427 IS    [CT]         GAGCTCTCGAGGTCGCAGTGACCTCAGCACCTGCTTGGAGGAAAACGGCGCGGGAACCCCGCTTCCTTCC[CT]CTCAGCTGGAGCCAGACCTCAAACAAA
                        ACCCCAATCGATGCACACAGAAAACTCCTCTGGGCCACGCTTCCCGCCTCGCCGAGGTCTCCCCAGTCTGCCCCTCGCTGACGCTGGCGCGCAGCGGCT
                        GTGGC
7432 I           S       CGCCGCAGGCCCCCGTTCTCA
7432 P     G     S       CGCGCCGAGGCTTCCTACCTGTGCCGG
7432 P     A     S       CGCGCCGAGGTTTCCTACCTGTGCCGG
7432 T     G     S       AATCCCGGCACAGGTAGGAAGGAGAACGGGGGCCTGCGGCGGG
7432 T     A     S       AATCCCGGCACAGGTAGGAAAGAGAACGGGGGCCTGCGGCGGG

7432 IS    [GA]         CAGCTCGCACTCGCAGGCGACCTGCTCCAGTCTCCAAAGCCGATGGCATCTCCGGGCTCTGGCTTTTGGTCTTTCGGGTCGGAAGATGGCTCTGGGGATT
                        CCGAGAATCCCGGCACAGGTAGGAA[GA]GAGAACGGGGGCCTGCGGCGGGCGAGTTTGCGGTGGTCTGGGGTTTGCGGAACTACGGAGAAG
7433 I           S       CAAGAAAAGCTCCGTGCGACCCAAAGAGCTT
7433 P     C     S       CGCGCCGAGGGAGAACTCCCCCACCC
7433 P     T     S       CGCGCCGAGGAAGAACTCCCCCACCC
7433 T     C     S       GTCGGGGTGGGGGAGTTCTCAGCTCTTTGGGTCGCACGGAGCTTTTCTTGGG
7433 T     T     S       GTCGGGGTGGGGGAGTTCTTAGCTCTTTGGGTCGCACGGAGCTTTTCTTGGG

7433 IS    [CT]         CGTGGGAAGAGTTTTCTGGACCCAGAAGGCAGACGCCAGTAGTACTGTCCTAGGAGTCGGAGGTCGGGGTGGGGGAGTTCT[CT]AGCTCTTTGGGTCGCA
                        CGGAGCTTTTCTTGGGTAAGGCAGTAAGTACTTAGGTTTAAAGGACTTACTTACAGCTACCATTTATTGAGTACTGTCTGCTTGTCAGACACGATGCAGAGA
                        ATTTC
7497 I           A       TGCGGTGTTTTATGCTGAAAAAGCCTTGAGGCTCAT
7497 P     C     A       CGCGCCGAGGCACTCAGCCCACAGCT
7497 P     G     A       CGCGCCGAGGGACTCAGCCCACAGCT
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FIGURE 129E

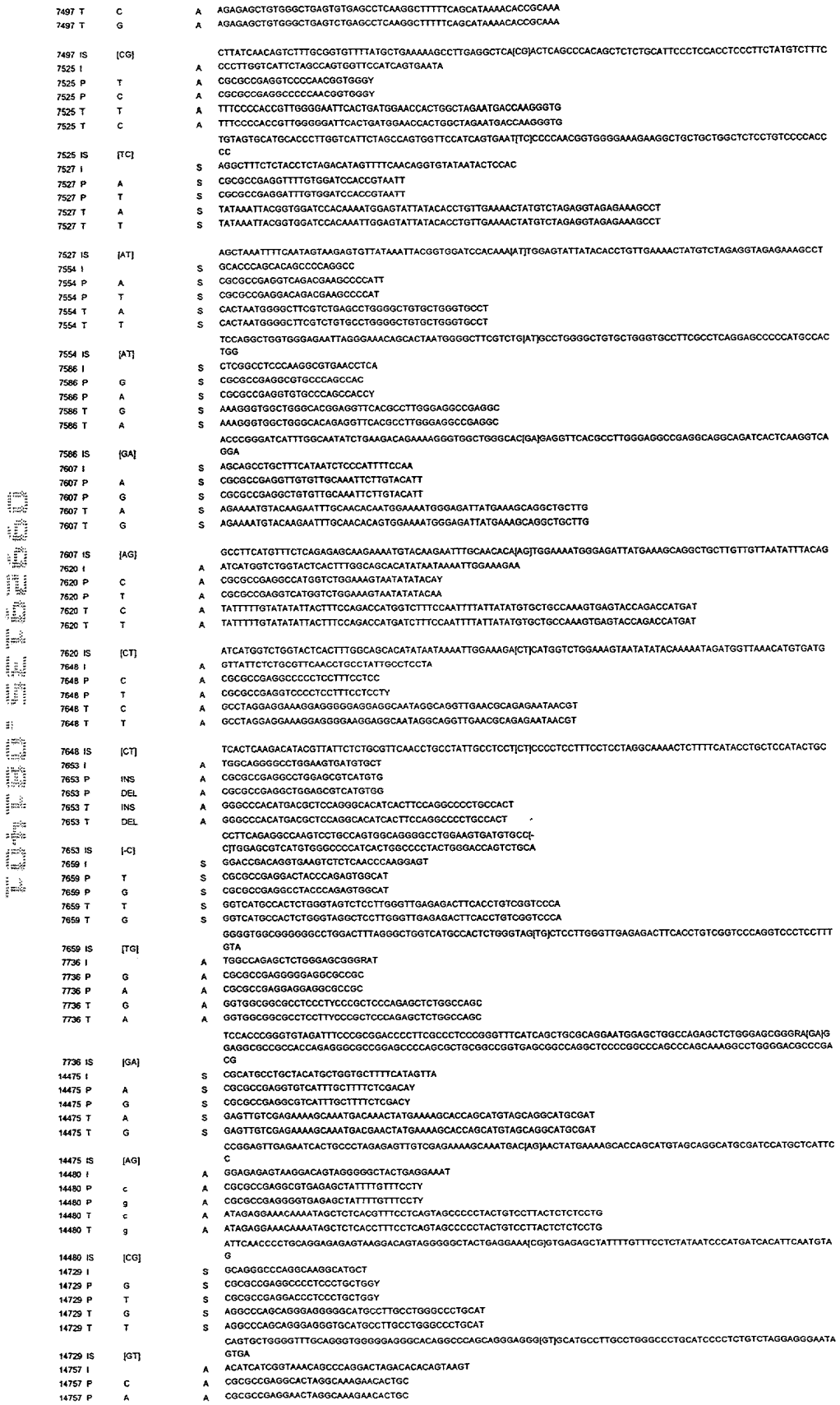

7497 T C A AGAGAGCTGTGGGCTGAGTGTGAGCCTCAAGGCTTTTTCAGCATAAAACACCGCAAA
7497 T G A AGAGAGCTGTGGGCTGAGTCTGAGCCTCAAGGCTTTTTCAGCATAAAACACCGCAAA
7497 IS [CG] CTTATCAACAGTCTTTGCGGTGTTTTATGCTGAAAAAGCCTTGAGGCTCA[CG]ACTCAGCCCACAGCTCTCTGCATTCCCTCCACCTCCCTTCTATGTCTTTC
7525 I A CCCTTGGTCATTCTAGCCAGTGGTTCCATCAGTGAATA
7525 P T A CGCGCCGAGGTCCCCAACGGTGGGY
7525 P C A CGCGCCGAGGCCCCCAACGGTGGGY
7525 T T A TTTCCCCACCGTTGGGGAATTCACTGATGGAACCACTGGCTAGAATGACCAAGGGTG
7525 T C A TTTCCCCACCGTTGGGGGATTCACTGATGGAACCACTGGCTAGAATGACCAAGGGTG
7525 IS [TC] TGTAGTGCATGCACCCTTGGTCATTCTAGCCAGTGGTTCCATCAGTGAAT[TC]CCCCAACGGTGGGGAAAGAAGGCTGCTGCTGGCTCTCCTGTCCCCACC CC
7527 I S AGGCTTTCTCTACCTCTAGACATAGTTTTCAACAGGTGTATAATACTCCAC
7527 P A S CGCGCCGAGGTTTTGTGGATCCACCGTAATT
7527 P T S CGCGCCGAGGATTTGTGGATCCACCGTAATT
7527 T A S TATAAATTACGGTGGATCCACAAAATGGAGTATTATACACCTGTTGAAAACTATGTCTAGAGGTAGAGAAAGCCT
7527 T T S TATAAATTACGGTGGATCCACAAATTGGAGTATTATACACCTGTTGAAAACTATGTCTAGAGGTAGAGAAAGCCT
7527 IS [AT] AGCTAAATTTTCAATAGTAAGAGTGTTATAAATTACGGTGGATCCACAAA[AT]TGGAGTATTATACACCTGTTGAAAACTATGTCTAGAGGTAGAGAAAGCCT
7554 I S GCACCCAGCACAGCCCCAGGCC
7554 P A S CGCGCCGAGGTCAGACGAAGCCCCATT
7554 P T S CGCGCCGAGGACAGACGAAGCCCCAT
7554 T A S CACTAATGGGGCTTCGTCTGAGCCTGGGGCTGTGCTGGGTGCCT
7554 T T S CACTAATGGGGCTTCGTCTGTGCCTGGGGCTGTGCTGGGTGCCT
7554 IS [AT] TCCAGGCTGGTGGGAGAATTAGGGAAACAGCACTAATGGGGCTTCGTCTG[AT]GCCTGGGGCTGTGCTGGGTGCCTTCGCCTCAGGAGCCCCCATGCCAC TGG
7586 I S CTCGGCCTCCCAAGGCGTGAACCTCA
7586 P G S CGCGCCGAGGCGTGCCCAGCCAC
7586 P A S CGCGCCGAGGTGTGCCCAGCCACCY
7586 T G S AAAGGGTGGCTGGGCACGGAGGTTCACGCCTTGGGAGGCCGAGGC
7586 T A S AAAGGGTGGCTGGGCACAGAGGTTCACGCCTTGGGAGGCCGAGGC
7586 IS [GA] ACCCGGGATCATTTGGCAATATCTGAAGACAGAAAAGGGTGGCTGGGCAC[GA]GAGGTTCACGCCTTGGGAGGCCGAGGCAGGCAGATCACTCAAGGTCA GGA
7607 I S AGCAGCCTGCTTTCATAATCTCCCATTTTCCAA
7607 P A S CGCGCCGAGGTTGTGTTGCAAATTCTTGTACATT
7607 P G S CGCGCCGAGGCTGTGTTGCAAATTCTTGTACATT
7607 T A S AGAAAATGTACAAGAATTTGCAACACAATGGAAAATGGGAGATTATGAAAGCAGGCTGCTTG
7607 T G S AGAAAATGTACAAGAATTTGCAACACAGTGGAAAATGGGAGATTATGAAAGCAGGCTGCTTG
7607 IS [AG] GCCTTCATGTTTCTCAGAGAGCAAGAAAATGTACAAGAATTTGCAACACA[AG]TGGAAAATGGGAGATTATGAAAGCAGGCTGCTTGTTGTTAATATTTACAG
7620 I A ATCATGGTCTGGTACTCACTTTGGCAGCACATATAATAAAATTGGAAAGAA
7620 P C A CGCGCCGAGGCCATGGTCTGGAAAGTAATATATACAY
7620 P T A CGCGCCGAGGTCATGGTCTGGAAAGTAATATATACAA
7620 T C A TATTTTTGTATATATTACTTTCCAGACCATGGTCTTTCCAATTTTATTATATGTGCTGCCAAAGTGAGTACCAGACCATGAT
7620 T T A TATTTTTGTATATATTACTTTCCAGACCATGATCTTTCCAATTTTATTATATGTGCTGCCAAAGTGAGTACCAGACCATGAT
7620 IS [CT] ATCATGGTCTGGTACTCACTTTGGCAGCACATATAATAAAATTGGAAAGA[CT]CATGGTCTGGAAAGTAATATATACAAAAATAGATGGTTAAACATGTGATG
7648 I A GTTATTCTCTGCGTTCAACCTGCCTATTGCCTCCTA
7648 P C A CGCGCCGAGGCCCCCTCCTTTCCTCC
7648 P T A CGCGCCGAGGTCCCCTCCTTTCCTCCTY
7648 T C A GCCTAGGAGGAAAGGAGGGGGAGGAGGCAATAGGCAGGTTGAACGCAGAGAATAACGT
7648 T T A GCCTAGGAGGAAAGGAGGGGAAGGAGGCAATAGGCAGGTTGAACGCAGAGAATAACGT
7648 IS [CT] TCACTCAAGACATACGTTATTCTCTGCGTTCAACCTGCCTATTGCCTCCT[CT]CCCCTCCTTTCCTCCTAGGCAAAACTCTTTTCATACCTGCTCCATACTGC
7653 I A TGGCAGGGGCCTGGAAGTGATGTGCT
7653 P INS A CGCGCCGAGGCCTGGAGCGTCATGTG
7653 P DEL A CGCGCCGAGGCTGGAGCGTCATGTGG
7653 T INS A GGGCCCACATGACGCTCCAGGGCACATCACTTCCAGGCCCCTGCCACT
7653 T DEL A GGGCCCACATGACGCTCCAGGGCACATCACTTCCAGGCCCCTGCCACT
7653 IS [-C] CCTTCAGAGGCCAAGTCCTGCCAGTGGCAGGGGCCTGGAAGTGATGTGCC[-C]TGGAGCGTCATGTGGGCCCCATCACTGGCCCCTACTGGGACCAGTCTGCA
7659 I S GGACCGACAGGTGAAGTCTCTCAACCCAAGGAGT
7659 P T S CGCGCCGAGGACTACCCAGAGTGGCAT
7659 P G S CGCGCCGAGGCCTACCCAGAGTGGCAT
7659 T T S GGTCATGCCACTCTGGGTAGTCTCCTTGGGTTGAGAGACTTCACCTGTCGGTCCCA
7659 T G S GGTCATGCCACTCTGGGTAGGCTCCTTGGGTTGAGAGACTTCACCTGTCGGTCCCA
7659 IS [TG] GGGGTGGCGGGGGGCCTGGACTTTAGGGCTGGTCATGCCACTCTGGGTAG[TG]CTCCTTGGGTTGAGAGACTTCACCTGTCGGTCCCAGGTCCCTCCTTT GTA
7736 I A TGGCCAGAGCTCTGGGAGCGGGRAT
7736 P G A CGCGCCGAGGGGGAGGCGCCGC
7736 P A A CGCGCCGAGGAGGAGGCGCCGC
7736 T G A GGTGGCGGCGCCTCCCTYCCCGCTCCCAGAGCTCTGGCCAGC
7736 T A A GGTGGCGGCGCCTCCTTYCCCGCTCCCAGAGCTCTGGCCAGC
7736 IS [GA] TCCACCCGGGTGTAGATTTCCCGCGGACCCCTTCGCCCTCCCGGGTTTCATCAGCTGCGCAGGAATGGAGCTGGCCAGAGCTCTGGGAGCGGGRA[GA]G GAGGCGCCGCCACCAGAGGGCGCCGGAGCCCCAGCGCTGCGGCCGGTGAGCGGCCAGGCTCCCCGGCCCAGCCCAGCAAAGGCCTGGGGACGCCCGA CG
14475 I S CGCATGCCTGCTACATGCTGGTGCTTTTCATAGTTA
14475 P A S CGCGCCGAGGTGTCATTTGCTTTTCTCGACAY
14475 P G S CGCGCCGAGGCGTCATTTGCTTTTCTCGACY
14475 T A S GAGTTGTCGAGAAAAGCAAATGACAAACTATGAAAAGCACCAGCATGTAGCAGGCATGCGAT
14475 T G S GAGTTGTCGAGAAAAGCAAATGACGAACTATGAAAAGCACCAGCATGTAGCAGGCATGCGAT
14475 IS [AG] CCGGAGTTGAGAATCACTGCCCTAGAGAGTTGTCGAGAAAAGCAAATGAC[AG]AACTATGAAAAGCACCAGCATGTAGCAGGCATGCGATCCATGCTCATTC C
14480 I A GGAGAGAGTAAGGACAGTAGGGGGCTACTGAGGAAAT
14480 P c A CGCGCCGAGGCGTGAGAGCTATTTTGTTTCCTY
14480 P g A CGCGCCGAGGGGTGAGAGCTATTTTGTTTCCTY
14480 T c A ATAGAGGAAACAAAATAGCTCTCACGTTTCCTCAGTAGCCCCCTACTGTCCTTACTCTCTCCTG
14480 T g A ATAGAGGAAACAAAATAGCTCTCACCTTTCCTCAGTAGCCCCCTACTGTCCTTACTCTCTCCTG
14480 IS [CG] ATTCAACCCCTGCAGGAGAGAGTAAGGACAGTAGGGGGCTACTGAGGAAA[CG]GTGAGAGCTATTTTGTTTCCTCTATAATCCCATGATCACATTCAATGTA G
14729 I S GCAGGGCCCAGGCAAGGCATGCT
14729 P G S CGCGCCGAGGCCCCTCCCTGCTGGY
14729 P T S CGCGCCGAGGACCCTCCCTGCTGGY
14729 T G S AGGCCCAGCAGGGAGGGGGCATGCCTTGCCTGGGCCCTGCAT
14729 T T S AGGCCCAGCAGGGAGGGTGCATGCCTTGCCTGGGCCCTGCAT
14729 IS [GT] CAGTGCTGGGGTTTGCAGGGTGGGGGAGGGCACAGGCCCAGCAGGGAGGG[GT]GCATGCCTTGCCTGGGCCCTGCATCCCCTCTGTCTAGGAGGGAATA GTGA
14757 I A ACATCATCGGTAAACAGCCCAGGACTAGACACACAGTAAGT
14757 P C A CGCGCCGAGGCACTAGGCAAAGAACACTGC
14757 P A A CGCGCCGAGGAACTAGGCAAAGAACACTGC

FIGURE 129E

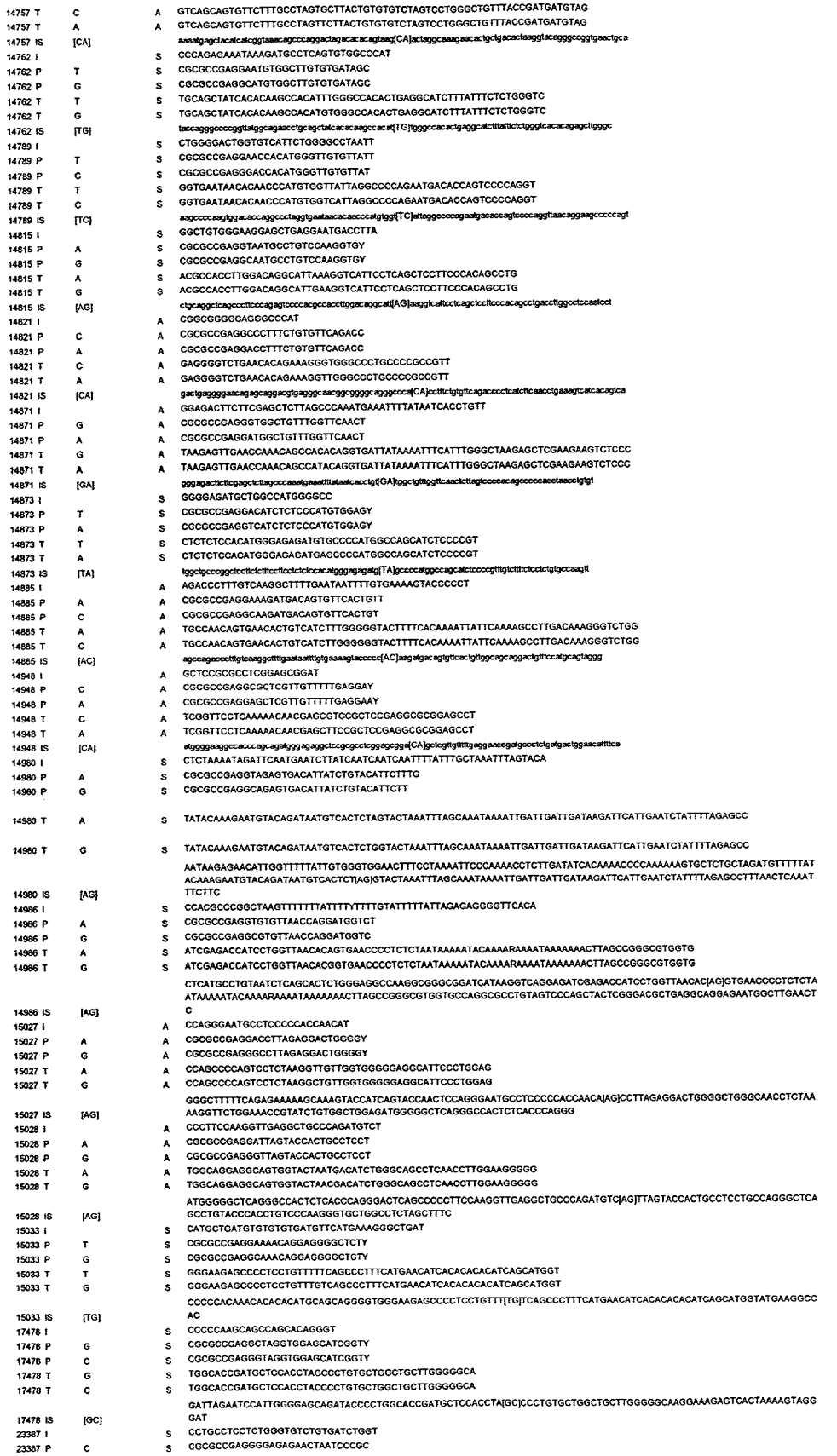


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FIGURE 129E

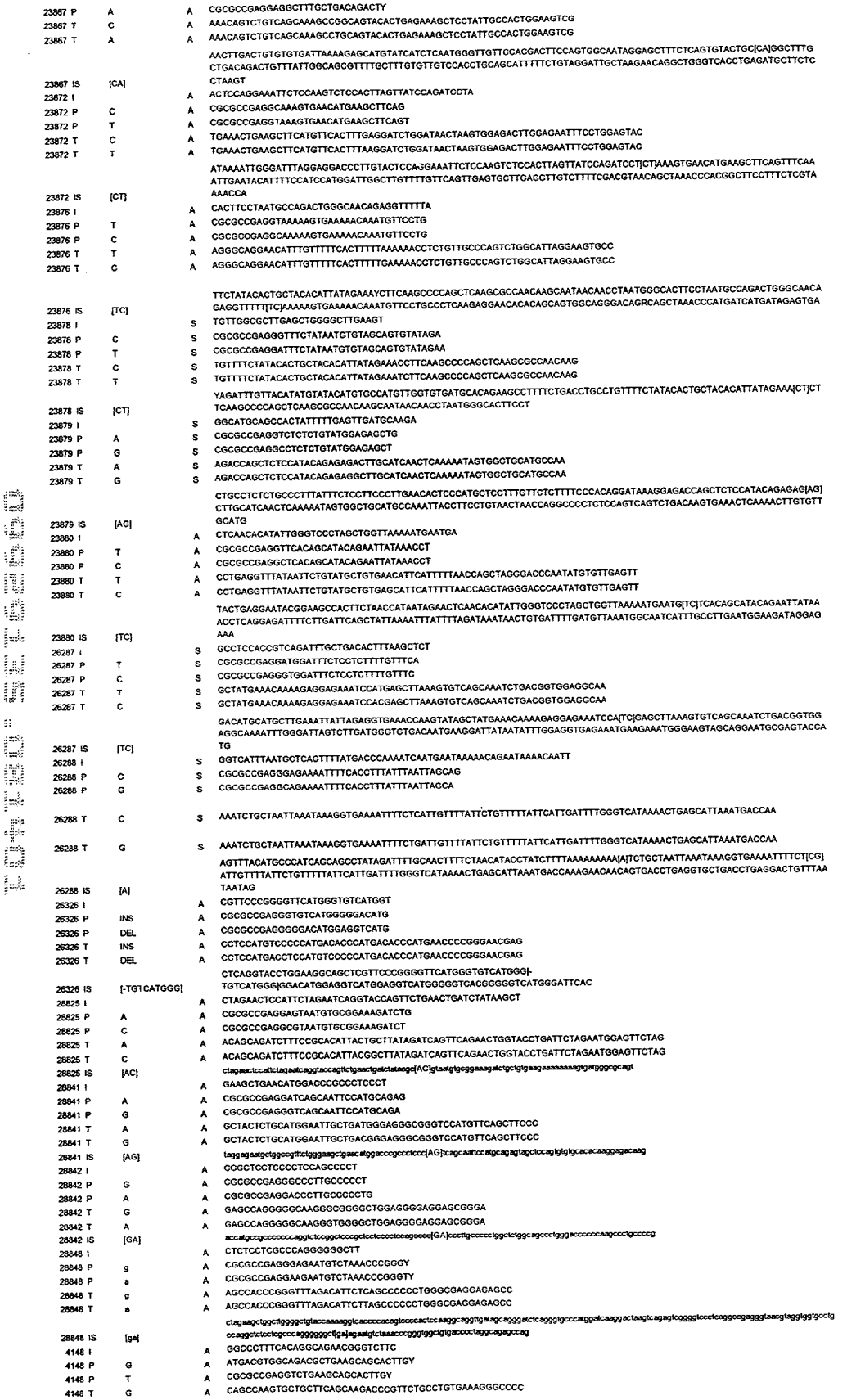
23387	P	G	S	CGCGCCGAGGCGAGAGAACTAATCCCGC
23387	T	C	S	AGTGGCGGGATTAGTTCTCTCCCCAGATCACAGACACCCAGAGGAGGCAGGTG
23387	T	G	S	AGTGGCGGGATTAGTTCTCTCGCCAGATCACAGACACCCAGAGGAGGCAGGTG
23387	IS	[CG]		CCAGCCATTATTTCACTTGGAATTCTCACAGTGGCGGGATTAGTTCTCTC[CG]CCAGATCACAGACACCCAGAGGAGGCAGGTGACTTGAGGCAGCTGCAAGC
23389	I		S	CTTGGGCCTCAGTTGCCCCCGAAGAAAAATT
23389	P	T	S	CGCGCCGAGGAGAATTAAACTTGGCCTTTCTGA
23389	P	C	S	CGCGCCGAGGGGAATTAAACTTGGCCTTTCTGY
23389	T	T	S	GCCTTCAGAAAGGCCAAGTTTAATTCTATTTTTCTTCGGGGGCAACTGAGGCCCAAGAA
23389	T	C	S	GCCTTCAGAAAGGCCAAGTTTAATTCCATTTTTCTTCGGGGGCAACTGAGGCCCAAGAA
23389	IS	[TC]		AAGAAATAATCCAATTCTACTCTTGCCTTCAGAAAGGCCAAGTTTAATTC[TC]ATTTTTCTTCGGGGGCAACTGAGGCCCAAGAAATCAAGAAGAGCCAGGCA
23397	I		S	GATACATCTATAGACTCAGAAATGAAATGTAGCCTTTGTCTTTCCTTTGCA
23397	P	G	S	CGCGCCGAGGCCCTAAAGTTAACATCTGCATGG
23397	P	A	S	CGCGCCGAGGTCCTAAAGTTAACATCTGCATGG
23397	T	G	S	TCCCCCATGCAGATGTTAACTTTAGGGGCAAAGGAAAGACAAAGGCTACATTTCATTTCTGAGTCTATAGATGTATC
23397	T	A	S	TCCCCCATGCAGATGTTAACTTTAGGAGCAAAGGAAAGACAAAGGCTACATTTCATTTCTGAGTCTATAGATGTATC
23397	IS	[GA]		AAAATGCTTTTATTTTCTTGGAGTTCCCCCATGCAGATGTTAACTTTAGG[GA]GCAAAGGAAAGACAAAGGCTACATTTCATTTCTGAGTCTATAGATGTATC
23398	I		S	GCGGCACCAGACTCACCAGGCCGA
23398	P	G	S	CGCGCCGAGGCGCTCCCATCGCCT
23398	P	A	S	CGCGCCGAGGTGCTCCCATCGCCT
23398	T	G	S	CCCCAGGCGATGGGAGCGCGGCCTGGTGAGTCTGGTGCCGCTG
23398	T	A	S	CCCCAGGCGATGGGAGCACGGCCTGGTGAGTCTGGTGCCGCTG
23398	IS	[GA]		GTTGAGTTGAACTTGGGGCCCCTAGTGAGGAGGCCCCAGGCGATGGGAGC[GA]CGGCCTGGTGAGTCTGGTGCCGCTGCCTCCCCACTGGCCCTGCACCAGGT	FLJ21588
23404	I		A	GGTGTTGCATGAGGTGATGGTGATGTCATGTTAGCAGA
23404	P	C	A	CGCGCCGAGGCACTGCTTCTCAGAAGTTGTT
23404	P	T	A	CGCGCCGAGGTACTGCTTCTCAGAAGTTGTTC
23404	T	C	A	AGCTGAACAACTTCTGAGAAGCAGTGCTGCTAACATGACATCACCATCACCTCATGCAACACCAG
23404	T	T	A	AGCTGAACAACTTCTGAGAAGCAGTACTGCTAACATGACATCACCATCACCTCATGCAACACCAG
23404	IS	[CT]		TCGACCTCCAGCTGGTGTTGCATGAGGTGATGGTGATGTCATGTTAGCAG[CT]ACTGCTTCTCAGAAGTTGTTCAGCTTCCCATGGTTTCCATAGAGAGTCTA
23422	I		A	AGAAGAAAGCATATAGTGTGCAGATACCAGGGTCAACTTGGAC
23422	P	T	A	CGCGCCGAGGTCTATGCTCATGGTTTGCAAA
23422	P	A	A	CGCGCCGAGGACTATGCTCATGGTTTGCAA
23422	T	T	A	CCTTTTTGCAAACCATGAGCATAGATCCAAGTTGACCCTGGTATCTGCACACTATATGCTTTCTTCTTA
23422	T	A	A	CCTTTTTGCAAACCATGAGCATAGTTCCAAGTTGACCCTGGTATCTGCACACTATATGCTTTCTTCTTA
23422	IS	[TA]		ACTCTCTAAGAAGAAAGCATATAGTGTGCAGATACCAGGGTCAACTTGGA[TA]CTATGCTCATGGTTTGCAAAAAGGAAAACAGAAAAAATAAAGAAGACAAA
23444	I		S	TCTTTGCAAACCTGATAGATGGAAAATAGAATTTTGAGGCTTTAATTTACT
23444	P	T	S	CGCGCCGAGGATTTCTCTAATTGTGTCAAGCTGA
23444	P	C	S	CGCGCCGAGGGTTTCTCTAATTGTGTCAAGCTG
23444	T	T	S	ATGCTCAGCTTGACACAATTAGAGAAATGTAAATTAAAGCCTCAAAATTCTATTTTCCATCTATCAGGTTTGCAAAGA
23444	T	C	S	ATGCTCAGCTTGACACAATTAGAGAAACGTAAATTAAAGCCTCAAAATTCTATTTTCCATCTATCAGGTTTGCAAAGA
23444	IS	[TC]		AAGTGGTTTTAGAACACAAAAACATGCTCAGCTTGACACAATTAGAGAAA[TC]GTAAATTAAAGCCTCAAAATTCTATTTTCCATCTATCAGGTTTGCAAAGA
23449	I		A	GGTGGCTGGCTTCTCAGGAGCAGCTT
23449	P	G	A	CGCGCCGAGGGTCAAGGCAGGGATGTG
23449	P	C	A	CGCGCCGAGGCTCAAGGCAGGGATGTG
23449	T	G	A	CCCCCACATCCCTGCCTTGACAGCTGCTCCTGAGAAGCCAGCCACCCC
23449	T	C	A	CCCCCACATCCCTGCCTTGAGAGCTGCTCCTGAGAAGCCAGCCACCCC
23449	IS	[GC]		CTGGGAAGATCCAGATGAGAGCCGGGGTGGCTGGCTTCTCAGGAGCAGCT[GC]TCAAGGCAGGGATGTGGGGGGCTTGGCAGCTATCCAGGAAGTAGAACTGA
23450	I		A	CATTTTGCTGTAATTACTTCAGGTTGGAAAAGAGAATTCTACTAAACACAA
23450	P	C	A	CGCGCCGAGGCCCCTCAATCTCCACCC
23450	P	T	A	CGCGCCGAGGTCCCTCAATCTCCACCC
23450	T	C	A	ATGTGGGTGGAGATTGAGGGGTGTGTTTAGTAGAATTCTCTTTTCCAACCTGAAGTAATTACAGCAAAATG
23450	T	T	A	ATGTGGGTGGAGATTGAGGGATGTGTTTAGTAGAATTCTCTTTTCCAACCTGAAGTAATTACAGCAAAATG
23450	IS	[CT]		CATTTTGCTGTAATTACTTCAGGTTGGAAAAGAGAATTCTACTAAACACA[CT]CCCTCAATCTCCACCCACATTGTGACTCATGTCAGAGAAGATGGGATCCA
23465	I		S	TCCTGCTTATTGGGTCTTCAAGTGCAAACAACGTAATAAGCAA
23465	P	A	S	CGCGCCGAGGTTTACATCCTAACAACTTAGCAGC
23465	P	G	S	CGCGCCGAGGCTTACATCCTAACAACTTAGCAGC
23465	T	A	S	AATGGCTGCTAAGTTGTTAGGATGTAAATGCTTATTACGTTGTTTGCACTTGAAGACCCAATAAGCAGGACT
23465	T	G	S	AATGGCTGCTAAGTTGTTAGGATGTAAGTGCTTATTACGTTGTTTGCACTTGAAGACCCAATAAGCAGGACT
23465	IS	[AG]		ACTTGTGTGTATTATTTTTTTCAAATGGCTGCTAAGTTGTTAGGATGTAA[AG]TGCTTATTACGTTGTTTGCACTTGAAGACCCAATAAGCAGGACTGGCAGA
23479	I		S	GTTTCGCTCCCCAGATGGAAAGCCCGTGC
23479	P	INS	S	CGCGCCGAGGTCCTCTGTCACCGCTG
23479	P	DEL	S	CGCGCCGAGGTCTCTGTCACCGCTGG
23479	T	INS	S	ACTCCAGCGGTGACAGAGGACACGGGCTTTCCATCTGGGGAGCGAAACAC
23479	T	DEL	S	GACTCCAGCGGTGACAGAGACACGGGCTTTCCATCTGGGGAGCGAAACAC
23479	IS	[-G]		GGAGGCCGTGTACCTGGGGCTGTGTGCCTGGGACTCCAGCGGTGACAGAG[-G]ACACGGGCTTTCCATCTGGGGAGCGAAACACCAGGGAAGCTTTAATCTGG
23485	I		S	CGCCCGGGCCAATTCATTTGTTAACTATTCTTAGCACCTTCC
23485	P	C	S	CGCGCCGAGGGCTACAACTGCAATTCCAAG
23485	P	A	S	CGCGCCGAGGTCTACAACTGCAATTCCAAGC
23485	T	C	S	AAAGGCTTGGAATTGCAGTTGTAGCGAAGGTGCTAAGAATAGTTAACAAATGAATTGGCCGGGCGCG
23485	T	A	S	AAAGGCTTGGAATTGCAGTTGTAGAGAAGGTGCTAAGAATAGTTAACAAATGAATTGGCCGGGCGCG
23485	IS	[CA]		ACAAGTTTTGATTTCCTATTAAGAGGAAAGGCTTGGAATTGCAGTTGTAG[CA]GAAGGTGCTAAGAATAGTTAACAAATGAATTGGCCGGGCGCGGTGGCTCA
23493	I		S	TTTTAAGGTTTCAAATGGCAGAATCCACATGAGGTTTTACATCTGTAAAAA
23493	P	G	S	CGCGCCGAGGCAGGAATAAAGAGTGGGCAT
23493	P	A	S	CGCGCCGAGGTAGGAATAAAGAGTGGGCATG
23493	T	G	S	CACACATGCCCACTCTTTATTCCTGTTTTACAGATGTAAAACCTCATGTGGATTCTGCCATTTGAAACCTTAAAA
23493	T	A	S	CACACATGCCCACTCTTTATTCCTATTTTACAGATGTAAAACCTCATGTGGATTCTGCCATTTGAAACCTTAAAA
23493	IS	[GA]		TGACTTGGTGAGGCTCCTGGGTGACACACACATGCCCACTCTTTATTCCT[GA]TTTTACAGATGTAAAACCTCATGTGGATTCTGCCATTTGAAACCTTAAAA
23496	I		A	CCTTCTTCCAGGCCCTGGGGTTTCCTA
23496	P	C	A	CGCGCCGAGGCAGCCACAGAGGAATCCA
23496	P	T	A	CGCGCCGAGGTAGCCACAGAGGAATCCA
23496	T	C	A	GGTGTGGATTCCTCTGTGGCTGAGGAAACCCCAGGGCCTGGAAGAAGGCT
23496	T	T	A	GGTGTGGATTCCTCTGTGGCTAAGGAAACCCCAGGGCCTGGAAGAAGGCT
23496	IS	[CT]		CCACTTCCCTGGCCAGGAGCTGAGCCTTCTTCCAGGCCCTGGGGTTTCCT[CT]AGCCACAGAGGAATCCACACCTGGGGATCATGAGGTCGCTGGGAGGTGGA
23507	I		S	CAGCTCTGAGGTTGCTCAGGAAATCAAAGCTCCTCT
23507	P	C	S	CGCGCCGAGGGTACCATGAGCGTCTCTCT
23507	P	G	S	CGCGCCGAGGCTACCATGAGCGTCTCTCT

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FIGURE 129E

23507 T	C	S	CATCAGAGAGACGCTCATGGTACGAGGAGCTTTGATTTCCTGAGCAACCTCAGAGCTGGG	
23507 T	G	S	CATCAGAGAGACGCTCATGGTAGGAGGAGCTTTGATTTCCTGAGCAACCTCAGAGCTGGG	
23507 IS	[CG]		AGCCTACATGAGGAAGGAACTGATGGTCCATCAGAGAGACGCTCATGGTA[CG]GAGGAGCTTTGATTTCCTGAGCAACCTCAGAGCTGGGGGCAAGGGAG GAG	
23515 I		A	AAGATATGTGTTTGATTAATAACAGTCCTGATTTAAAACAACAGCACTGTT	
23515 P	G	A	CGCGCCGAGGGTTTTGAGCCTTCACTCAGTAT	
23515 P	C	A	CGCGCCGAGGCTTTTGAGCCTTCACTCAGTAT	
23515 T	G	A	TTGCATACTGAGTGAAGGCTCAAAACACAGTGCTGTTGTTTTAAATCAGGACTGTTATTAATCAAACACATATCTT	
23515 T	C	A	TTGCATACTGAGTGAAGGCTCAAAAGACAGTGCTGTTGTTTTAAATCAGGACTGTTATTAATCAAACACATATCTT	
23515 IS	[GC]		AAGATATGTGTTTGATTAATAACAGTCCTGATTTAAAACAACAGCACTGT[GC]TTTTGAGCCTTCACTCAGTATGCAACTCCTTTATACAGATTTTATTTTAA	
23516 I		A	GGGTAAGCATCTGACTCGGGGTGGAAGAATGAGAA	
23516 P	T	A	CGCGCCGAGGTACTCTTCCCTGAGAGTTTGAA	
23516 P	C	A	CGCGCCGAGGCACTCTTCCCTGAGAGTTTG	
23516 T	T	A	CAGTTTCAAACTCTCAGGGAAGAGTATCTCATTCTTCCACCCCGAGTCAGATGCTTACCCCA	
23516 T	C	A	CAGTTTCAAACTCTCAGGGAAGAGTGTCTCATTCTTCCACCCCGAGTCAGATGCTTACCCCA	
23516 IS	[TC]		TTGGTCACAGTTGATGGGGTAAGCATCTGACTCGGGGTGGAAGAATGAGA[TC]ACTCTTCCCTGAGAGTTTGAAACTGATGAGTGAGTCATGCAGTTTCTTT C	
23522 I		A	GCCGGAACGCTTCGCTCCAGCTACCA	
23522 P	C	A	CGCGCCGAGGCGGCCTCCCGCA	
23522 P	T	A	CGCGCCGAGGTGGCCTCCCGCAA	
23522 T	C	A	CCTCTTGCGGGAGGCCGGGTAGCTGGAGCGAAGCGTTCCGGCTG	
23522 T	T	A	CCTCTTGCGGGAGGCCAGGTAGCTGGAGCGAAGCGTTCCGGCTG	
23522 IS	[CT]		TCCACTCCACCCAGCAGCAAGGGCAGCCGGAACGCTTCGCTCCAGCTACC[CT]GGCCTCCCGCAAGAGGGTTCCCCCATGAGACCGTTAGTCTCTCTTTG CCT	CBX6
23529 I		A	CCCACACAGGAAGAGGAAAGGAAGAGCTGAAGCT	
23529 P	A	A	CGCGCCGAGGACTAGCTGGAGCACGT	
23529 P	G	A	CGCGCCGAGGGCTAGCTGGAGCACGT	
23529 T	A	A	TGAGACGTGCTCCAGCTAGTGCTTCAGCTCTTCCTTTCCTCTTCCTGTGTGGGCT	
23529 T	G	A	TGAGACGTGCTCCAGCTAGCGCTTCAGCTCTTCCTTTCCTCTTCCTGTGTGGGCT	
23529 IS	[AG]		ATCAAGAGTAGGAGAAGCCCACACAGGAAGAGGAAAGGAAGAGCTGAAGC[AG]CTAGCTGGAGCACGTCTCACAGAAATGGGAGGGAGGGAATGACGAGT GGT	
23533 I		A	CCATACAAATCACAGAGACATACTGTGCCACTGGACCTCT	
23533 P	A	A	CGCGCCGAGGACAAGATAAGTTTAAGCAGCAATTTT	
23533 P	G	A	CGCGCCGAGGGCAAGATAAGTTTAAGCAGCAATT	
23533 T	A	A	ATCTAAAATTGCTGCTTAAACTTATCTTGTGAGGTCCAGTGGCACAGTATGTCTCTGTGATTTGTATGGAA	
23533 T	G	A	ATCTAAAATTGCTGCTTAAACTTATCTTGCGAGGTCCAGTGGCACAGTATGTCTCTGTGATTTGTATGGAA	
23533 IS	[AG]		CCTAGAAGTTTCCATACAAATCACAGAGACATACTGTGCCACTGGACCTC[AG]CAAGATAAGTTTAAGCAGCAATTTTAGATAATAGGGCCACACCATATTGA	
23540 I		S	CTGCCAGCTGTTAAAACTAGGTGGTTGTCCCTGAATT	
23540 P	G	S	CGCGCCGAGGCATGCTTTCTGCCTCTCTG	
23540 P	C	S	CGCGCCGAGGGATGCTTTCTGCCTCTCTG	
23540 T	G	S	AATACAGAGAGGCAGAAAGCATGATTCAGGGACAACCACCTAGTTTTAACAGCTGGCAGCA	
23540 T	C	S	AATACAGAGAGGCAGAAAGCATCATTCAGGGACAACCACCTAGTTTTAACAGCTGGCAGCA	
23540 IS	[GC]		TCTCACCTGTTACTGTGAAAAAGTTTAAAATACAGAGAGGCAGAAAGCAT[GC]ATTCAGGGACAACCACCTAGTTTTAACAGCTGGCAGCATTTGCTGTGTTT	
23541 I		A	GCACACCAGTAGGATATGTGATCAAAACAGTCTGAAGACA	
23541 P	C	A	CGCGCCGAGGCGTTGCTCTGGTAGAAGGAY	
23541 P	T	A	CGCGCCGAGGTGTTGCTCTGGTAGAAGGAY	
23541 T	C	A	AGATTCCTTCTACCAGAGCAACGGTCTTCAGACTGTTTGATCACATATCCTACTGGTGTGCAA	
23541 T	T	A	AGATTCCTTCTACCAGAGCAACAGTCTTCAGACTGTTTGATCACATATCCTACTGGTGTGCAA	
23541 IS	[CT]		TGATAAAAATTGCACACCAGTAGGATATGTGATCAAAACAGTCTGAAGAC[CT]GTTGCTCTGGTAGAAGGAATCTAGGTTTTGCAGTGAGGTTGGGCTAGGG T	
23542 I		S	CCCCATAGATGGCTGATGCTTGGCTGAGCTGT	
23542 P	G	S	CGCGCCGAGGCAGATCGTTGTCCTTCAGAATC	
23542 P	C	S	CGCGCCGAGGGAGATCGTTGTCCTTCAGAATC	
23542 T	G	S	TCATGATTCTGAAGGACAACGATCTGCAGCTCAGCCAAGCATCAGCCATCTATGGGGTA	
23542 T	C	S	TCATGATTCTGAAGGACAACGATCTCCAGCTCAGCCAAGCATCAGCCATCTATGGGGTA	
23542 IS	[GC]		GTGGCAGCTGGCCAACAGCATCTCTTCATGATTCTGAAGGACAACGATCT[GC]CAGCTCAGCCAAGCATCAGCCATCTATGGGGTAGGATGCAAGAATTCA GC	
23546 I		S	CCCTGCTCAGAATCTGATACCAAAGAGACAGGGCCA	
23546 P	G	S	CGCGCCGAGGCGGGCCCAGGCAY	
23546 P	A	S	CGCGCCGAGGTGGGCCCAGGCAGY	
23546 T	G	S	CTCTCTGCCTGGGCCCGGGCCCTGTCTCTTTGGTATCAGATTCTGAGCAGGGGA	
23546 T	A	S	CTCTCTGCCTGGGCCCAGGCCCTGTCTCTTTGGTATCAGATTCTGAGCAGGGGA	
23546 IS	[GA]		TTTGGCAAGAGAGGGCTGAGGAGCCTGCTGGTCGCTCTCTGCCTGGGCCC[GA]GGCCCTGTCTCTTTGGTATCAGATTCTGAGCAGGGGAGGGAGCTGG AAGG	
23550 I		A	GAAAGCAATCAGGGTAAGGTTTGAGTTCATTTGGGAACAGTTTTTCTTCT	
23550 P	G	A	CGCGCCGAGGGCCACGGGACTTTGTG	
23550 P	A	A	CGCGCCGAGGACCACGGGACTTTGTGT	
23550 T	G	A	AACAACACAAAGTCCCGTGGCGAAGAAAAACTGTTCCCAAATGAACTCAAACCTTACCCTGATTGCTTTCA	
23550 T	A	A	AACAACACAAAGTCCCGTGGTGAAGAAAAACTGTTCCCAAATGAACTCAAACCTTACCCTGATTGCTTTCA	
23550 IS	[GA]		TGAAAGCAATCAGGGTAAGGTTTGAGTTCATTTGGGAACAGTTTTTCTTC[GA]CCACGGGACTTTGTGTTGTTTTTCCTTGTGTTTAATCTATCAGACATGAC	
23854 I		A	GCATCAGAGTTTTTCTCACCTGAGAGATAAGAAGGCACTATTAGGAAGGT	
23854 P	A	A	CGCGCCGAGGATCTCTTACTTTCAACTCTCAACAAT	
23854 P	G	A	CGCGCCGAGGGTCTCTTACTTTCAACTCTCAACA	
23854 T	A	A	AAAAATTGTTGAGAGTTGAAAGTAAGAGATCCTTCCTAATAGTGCCTTCTTATCTCTCAGGTGAGAAAAACTCTGATGCAA	
23854 T	G	A	AAAAATTGTTGAGAGTTGAAAGTAAGAGACCCTTCCTAATAGTGCCTTCTTATCTCTCAGGTGAGAAAAACTCTGATGCAA	
23854 IS	[AG]		CTGCCTAAATGTGAATTATTTCAGTTATATAATTGCATCAGAGTTTTTCTCACCTGAGAGATAAGAAGGCACTATTAGGAAGG[AG]TCTCTTACTTTCAACTCT CAACAATTTTTAATTAAAAGTGTATTTTCCCTTCATGATATATAAATTTTAAAATCAGATTAGAAAATCATATTTAGAGTATGATCTGCTTTGTAAAATTAAACCA AAAATA	
23856 I		A	TGCACTGTAATTAAAACCSAAGCTCTTTGGTTTTTGTCTGGCACAT	
23856 P	C	A	CGCGCCGAGGCGCATAGAGCTCAGTTTCTG	
23856 P	A	A	CGCGCCGAGGAGCATAGAGCTCAGTTTCTGT	
23856 T	C	A	GCATACAGAAACTGAGCTCTATGCGTGTGCCAGACAAAAACCAAAGAGCTTSGGTTTTAATTACAGTGCATT	
23856 T	A	A	GCATACAGAAACTGAGCTCTATGCTTGTGCCAGACAAAAACCAAAGAGCTTSGGTTTTAATTACAGTGCATT	
23856 IS	[CA]		CAGAACCTGTTGAGGGTAATAAGAGTAATGCACTGTAATTAAAACCSAAGCTCTTTGGTTTTTGTCTGGCACA[CA]GCATAGAGCTCAGTTTCTGTATGCACC TAATAGGACCATGTCATGGCAATGACATTGTCTGCTTAGAAATCCATTGCTTATATTTTTGTTATTTCTCAACATTATTTAGATTCAGTCTGATCACATAAAGTT CTTGC	
23857 I		A	TGAGAATTATGTTTTCATGATGGAACTATAGCGTAATCATTGTCAGTTACTAATTACT	
23857 P	C	A	CGCGCCGAGGCATCTTGAGACAGAGTCAGTG	
23857 P	A	A	CGCGCCGAGGAATCTTGAGACAGAGTCAGTG	
23857 T	C	A	GCCCCACTGACTCTGTCTCAAGATGGTAATTAGTAACTGACAATGATTACGCTATAGTTCCATCATGAAAACATAATTCTCATG	
23857 T	A	A	GCCCCACTGACTCTGTCTCAAGATTGTAATTAGTAACTGACAATGATTACGCTATAGTTCCATCATGAAAACATAATTCTCATG	
23857 IS	[CA]		CCTGGCATGAGAATTATGTTTTCATGATGGAACTATAGCGTAATCATTGTCAGTTACTAATTAC[CA]ATCTTGAGACAGAGTCAGTGGGGCCAAAAAAGAAAG AAAGGGAGAGGAGAGAGAGAGAGAAAGGGGGA	
23867 I		A	ACTTCCAGTGGCAATAGGAGCTTTCTCAGTGTACTGCT	
23867 P	C	A	CGCGCCGAGGCGGCTTTGCTGACAGACY	

FIGURE 129E



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FIGURE 129E

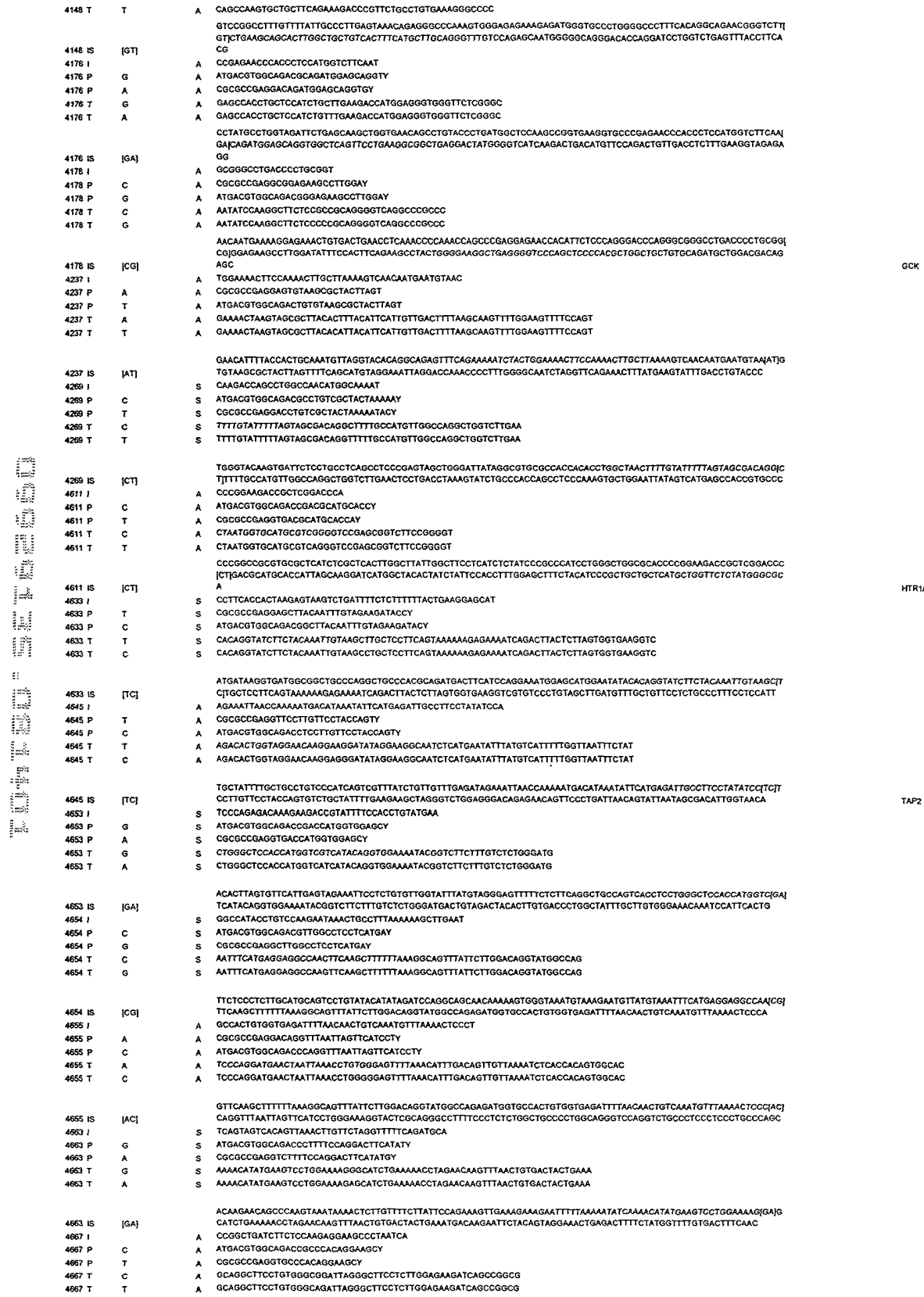

4148 T T A CAGCCAAGTGCTGCTTCAGAAAGACCCGTTCTGCCTGTGAAAGGGCCCC
GTCCGGCCTTTGTTTTATTGCCCTTGAGTAAACAGAGGGCCCAAAGTGGGAGAGAAAGAGATGGGTGCCCTGGGGCCCTTTCACAGGCAGAACGGGTCTT
GT CTGAAGCAGCACTTGGCTGCTGTCACTTTCATGCTTGCAGGGTTTGTCCAGAGCAATGGGGGCAGGGACACCAGGATCCTGGTCTGAGTTTACCTTCA
4148 IS [GT] CG
4176 I A CCGAGAACCCACCCTCCATGGTCTTCAAT
4176 P G A ATGACGTGGCAGACGCAGATGGAGCAGGTY
4176 P A A CGCGCCGAGGACAGATGGAGCAGGTGY
4176 T G A GAGCCACCTGCTCCATCTGCTTGAAGACCATGGAGGGTGGGTTCTCGGGC
4176 T A A GAGCCACCTGCTCCATCTGTTTGAAGACCATGGAGGGTGGGTTCTCGGGC
CCTATGCCTGGTAGATTCTGAGCAAGCTGGTGAACAGCCTGTACCCTGATGGCTCCAAGCCGGTGAAGGTGCCCGAGAACCCACCCTCCATGGTCTTCAA
GA CAGATGGAGCAGGTGGCTCAGTTCCTGAAGGCGGCTGAGGACTATGGGGTCATCAAGACTGACATGTTCCAGACTGTTGACCTCTTTGAAGGTAGAGA
4176 IS [GA] GG
4178 I A GCGGGGCCTGACCCCTGCGGT
4178 P C A CGCGCCGAGGCGGAGAAGCCTTGGAY
4178 P G A ATGACGTGGCAGACGGGAGAAGCCTTGGAY
4178 T C A AATATCCAAGGCTTCTCCGCCGCAGGGGTCAGGCCCGCCC
4178 T G A AATATCCAAGGCTTCTCCCCCGCAGGGGTCAGGCCCGCCC
AACAATGAAAAGGAGAAACTGTGACTGAACCTCAAACCCCAAACCAGCCCGAGGAGAACCACATTCTCCCAGGGACCCAGGGCGGGCCTGACCCCTGCGG
CG GGAGAAGCCTTGGATATTTCCACTTCAAGAAGCCTACTGGGGAAGGCTGAGGGGTCCCAGCTCCCCACGCTGGCTGCTGTGCAGATGCTGGACGACAG
4178 IS [CG] AGC GCK
4237 I A TGGAAAACTTCCAAAACTTGCTTAAAAGTCAACAATGAATGTAAC
4237 P A A CGCGCCGAGGAGTGTAAGCGCTACTTAGT
4237 P T A ATGACGTGGCAGACTGTGTAAGCGCTACTTAGT
4237 T A A GAAAACTAAGTAGCGCTTACACTTTACATTCATTGTTGACTTTTAAGCAAGTTTTGGAAGTTTTCCAGT
4237 T T A GAAAACTAAGTAGCGCTTACACATTACATTCATTGTTGACTTTTAAGCAAGTTTTGGAAGTTTTCCAGT
GAACATTTTACCACTGCAAATGTTAGGTACACAGGCAGAGTTTCAGAAAAATCTACTGGAAAACTTCCAAAACTTGCTTAAAAGTCAACAATGAATGTAA AT G
4237 IS [AT] TGTAAGCGCTACTTAGTTTTCAGCATGTAGGAAATTAGGACCAAACCCCTTTGGGGCAATCTAGGTTCAGAAACTTTATGAAGTATTTGACCTGTACCC
4269 I S CAAGACCAGCCTGGCCAACATGGCAAAAT
4269 P C S ATGACGTGGCAGACGCCTGTCGCTACTAAAAAY
4269 P T S CGCGCCGAGGACCTGTCGCTACTAAAAATACY
4269 T C S TTTTGTATTTTTAGTAGCGACAGGCTTTTGCCATGTTGGCCAGGCTGGTCTTGAA
4269 T T S TTTTGTATTTTTAGTAGCGACAGGTTTTTGCCATGTTGGCCAGGCTGGTCTTGAA
TGGGTACAAGTGATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGATTATAGGCGTGCGCCACCACACCTGGCTAACTTTTGTATTTTTAGTAGCGACAGG C
4269 IS [CT] T TTTTGCCATGTTGGCCAGGCTGGTCTTGAACTCCTGACCTAAAGTATCTGCCCACCAGCCTCCCAAAGTGCTGGAATTATAGTCATGAGCCACCGTGCCC
4611 I CCCGGAAGACCGCTCGGACCCA
4611 P C A ATGACGTGGCAGACCGACGCATGCACCY
4611 P T A CGCGCCGAGGTGACGCATGCACCAY
4611 T C A CTAATGGTGCATGCGTCGGGGTCCGAGCGGTCTTCCGGGGT
4611 T T A CTAATGGTGCATGCGTCAGGGTCCGAGCGGTCTTCCGGGGT
CCCGGCCGCGTGCGCTCATCTCGCTCACTTGGCTTATTGGCTTCCTCATCTCTATCCCGCCCATCCTGGGCTGGCGCACCCCGGAAGACCGCTCGGACCC
CT GACGCATGCACCATTAGCAAGGATCATGGCTACACTATCTATTCCACCTTTGGAGCTTTCTACATCCCGCTGCTGCTCATGCTGGTTCTCTATGGGCGC
4611 IS [CT] A HTR1A
4633 I S CCTTCACCACTAAGAGTAAGTCTGATTTTCTCTTTTTTACTGAAGGAGCAT
4633 P T S CGCGCCGAGGAGCTTACAATTTGTAGAAGATACCY
4633 P C S ATGACGTGGCAGACGGCTTACAATTTGTAGAAGATACY
4633 T T S CACAGGTATCTTCTACAAATTGTAAGCTTGCTCCTTCAGTAAAAAAGAGAAAATCAGACTTACTCTTAGTGGTGAAGGTC
4633 T C S CACAGGTATCTTCTACAAATTGTAAGCCTGCTCCTTCAGTAAAAAAGAGAAAATCAGACTTACTCTTAGTGGTGAAGGTC
ATGATAAGGTGATGGCGGCTGCCCAGGCTGCCCACGCAGATGACTTCATCCAGGAAATGGAGCATGGAATATACACAGGTATCTTCTACAAATTGTAAGCCT
4633 IS [TC] C TGCTCCTTCAGTAAAAAAGAGAAAATCAGACTTACTCTTAGTGGTGAAGGTCGTGTCCCTGTAGCTTGATGTTTGCTGTTCCTCTGCCCTTTCCTCCATT
4645 I A AGAAATTAACCAAAAATGACATAAATATTCATGAGATTGCCTTCCTATATCCA
4645 P T A CGCGCCGAGGTTCCTTGTTCCTACCAGTY
4645 P C A ATGACGTGGCAGACCTCCTTGTTCCTACCAGTY
4645 T T A AGACACTGGTAGGAACAAGGAAGGATATAGGAAGGCAATCTCATGAATATTTATGTCATTTTTGGTTAATTTCTAT
4645 T C A AGACACTGGTAGGAACAAGGAGGGATATAGGAAGGCAATCTCATGAATATTTATGTCATTTTTGGTTAATTTCTAT
TGCTATTTTGCTGCCTGTCCCATCAGTCGTTTATCTGTTGTTTGAGATAGAAATTAACCAAAAATGACATAAATATTCATGAGATTGCCTTCCTATATCCTCT
4645 IS [TC] CCTTGTTCCTACCAGTGTCTGCTATTTTGAAGAAGCTAGGGTCTGGAGGGACAGAGAACAGTTCCCTGATTAACAGTATTAATAGCGACATTGGTAACA TAP2
4653 I S TCCCAGAGACAAAGAAGACCGTATTTTCCACCTGTATGAA
4653 P G S ATGACGTGGCAGACCGACCATGGTGGAGCY
4653 P A S CGCGCCGAGGTGACCATGGTGGAGCY
4653 T G S CTGGGCTCCACCATGGTCGTCATACAGGTGGAAAATACGGTCTTCTTTGTCTCTGGGATG
4653 T A S CTGGGCTCCACCATGGTCATCATACAGGTGGAAAATACGGTCTTCTTTGTCTCTGGGATG
ACACTTAGTGTTCATTGAGTAGAAATTCCTCTGTGTTGGTATTTATGTAGGGAGTTTTTCTCTTCAGGCTGCCAGTCACCTCCTGGGCTCCACCATGGTCTGA
4653 IS [GA] TCATACAGGTGGAAAATACGGTCTTCTTTGTCTCTGGGATGACTGTAGACTACACTTGTGACCCTGGCTATTTGCTTGTGGGAAACAAATCCATTCACTG
4654 I S GGCCATACCTGTCCAAGAATAAACTGCCTTTAAAAAAGCTTGAAT
4654 P C S ATGACGTGGCAGACGTTGGCCTCCTCATGAY
4654 P G S CGCGCCGAGGCTTGGCCTCCTCATGAY
4654 T C S AATTTCATGAGGAGGCCAACTTCAAGCTTTTTTAAAGGCAGTTTATTCTTGGACAGGTATGGCCAG
4654 T G S AATTTCATGAGGAGGCCAAGTTCAAGCTTTTTTAAAGGCAGTTTATTCTTGGACAGGTATGGCCAG
TTCTCCCTCTTGCATGCAGTCCTGTATACATATAGATCCAGGCAGCAACAAAAAGTGGGTAAATGTAAAGAATGTTATGTAAATTTCATGAGGAGGCCAA CG
4654 IS [CG] TTCAAGCTTTTTTAAAGGCAGTTTATTCTTGGACAGGTATGGCCAGAGATGGTGCCACTGTGGTGAGATTTTAACAACTGTCAAATGTTTAAAACTCCCA
4655 I A GCCACTGTGGTGAGATTTTAACAACTGTCAAATGTTTAAAACTCCCT
4655 P A A CGCGCCGAGGACAGGTTTAATTAGTTCATCCTY
4655 P C A ATGACGTGGCAGACCCAGGTTTAATTAGTTCATCCTY
4655 T A A TCCCAGGATGAACTAATTAAACCTGTGGGAGTTTTAAACATTTGACAGTTGTTAAAATCTCACCACAGTGGCAC
4655 T C A TCCCAGGATGAACTAATTAAACCTGGGGGAGTTTTAAACATTTGACAGTTGTTAAAATCTCACCACAGTGGCAC
GTTCAAGCTTTTTTAAAGGCAGTTTATTCTTGGACAGGTATGGCCAGAGATGGTGCCACTGTGGTGAGATTTTAACAACTGTCAAATGTTTAAAACTCCC AC
4655 IS [AC] CAGGTTTAATTAGTTCATCCTGGGAAAGGTACTCGCAGGGCCTTTTCCCTCTCTGGCTGCCCCTGGCAGGGTCCAGGTCTGCCCTCCCTCCCTGCCCAGC
4663 I S TCAGTAGTCACAGTTAAACTTGTTCTAGGTTTTTCAGATGCA
4663 P G S ATGACGTGGCAGACCCTTTTCCAGGACTTCATATY
4663 P A S CGCGCCGAGGTCTTTTCCAGGACTTCATATGY
4663 T G S AAAACATATGAAGTCCTGGAAAAGGGCATCTGAAAAACCTAGAACAAGTTTAACTGTGACTACTGAAA
4663 T A S AAAACATATGAAGTCCTGGAAAAGAGCATCTGAAAAACCTAGAACAAGTTTAACTGTGACTACTGAAA
ACAAGAACAGCCCAAGTAAATAAAACTCTTGTTTTCTTATTCCAGAAAGTTGAAAGAAAGAATTTTTAAAAATATCAAAACATATGAAGTCCTGGAAAAG GA G
4663 IS [GA] CATCTGAAAAACCTAGAACAAGTTTAACTGTGACTACTGAAATGACAAGAATTCTACAGTAGGAAACTGAGACTTTTCTATGGTTTTGTGACTTTCAAC
4667 I A CCGGCTGATCTTCTCCAAGAGGAAGCCCTAATCA
4667 P C A ATGACGTGGCAGACCGCCCACAGGAAGCY
4667 P T A CGCGCCGAGGTGCCCACAGGAAGCY
4667 T C A GCAGGCTTCCTGTGGGCGGATTAGGGCTTCCTCTTGGAGAAGATCAGCCGGCG
4667 T T A GCAGGCTTCCTGTGGGCAGATTAGGGCTTCCTCTTGGAGAAGATCAGCCGGCG

FIGURE 129E

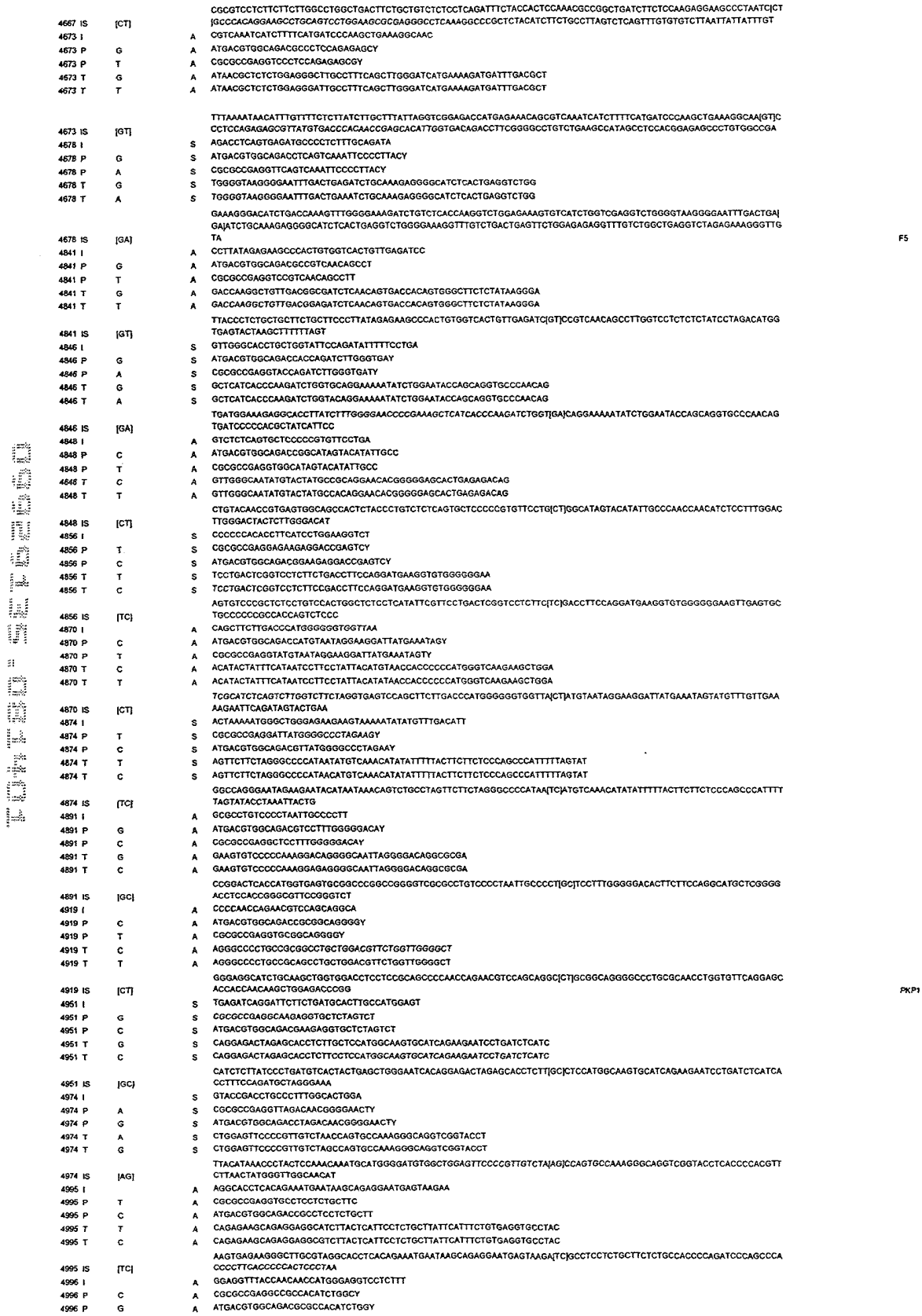
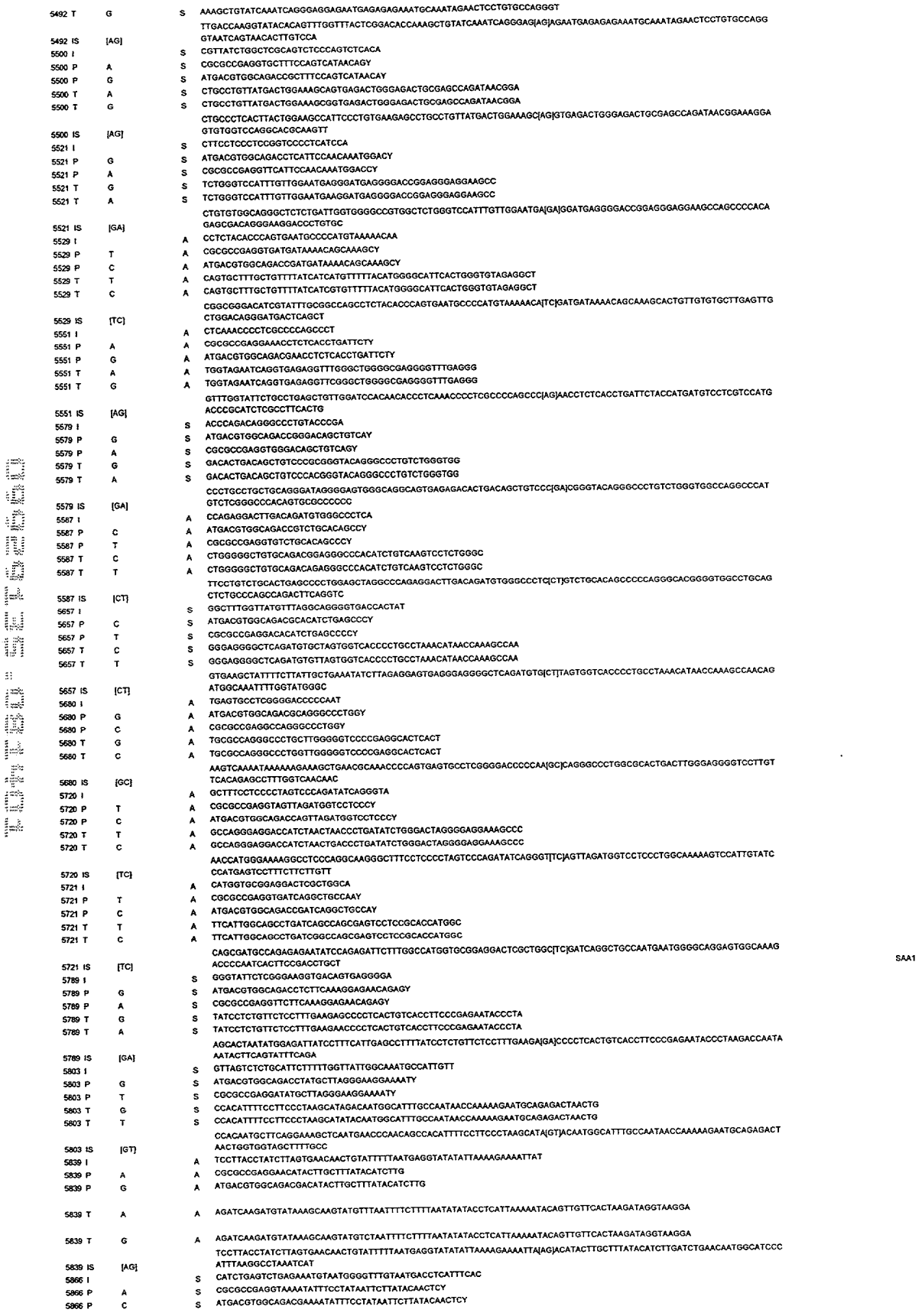

CGCGTCCTCTTCTTCTTGGCCTGGCTGACTTCTGCTGTCTCTCCTCAGATTTCTACCACTCCAAACGCCGGCTGATCTTCTCCAAGAGGAAGCCCTAATC[CT]
4667 IS [CT] [GCCCACAGGAAGCCTGCAGTCCTGGAAGCGCGAGGGCCTCAAAGGCCCGCTCTACATCTTCTGCCTTAGTCTCAGTTTGTGTGTCTTAATTATTATTTGT
4673 I A CGTCAAATCATCTTTTCATGATCCCAAGCTGAAAGGCAAC
4673 P G A ATGACGTGGCAGACGCCCTCCAGAGAGCY
4673 P T A CGCGCCGAGGTCCCTCCAGAGAGCGY
4673 T G A ATAACGCTCTCTGGAGGGCTTGCCTTTCAGCTTGGGATCATGAAAAGATGATTTGACGCT
4673 T T A ATAACGCTCTCTGGAGGGATTGCCTTTCAGCTTGGGATCATGAAAAGATGATTTGACGCT
TTTAAAATAACATTTGTTTTCTCTTATCTTGCTTTATTAGGTCGGAGACCATGAGAAACAGCGTCAAATCATCTTTTCATGATCCCAAGCTGAAAGGCAA[GT]C
4673 IS [GT] CCTCCAGAGAGCGTTATGTGACCCACAACCGAGCACAT7GGTGACAGACCTTCGGGGCCTGTCTGAAGCCATAGCCTCCACGGAGAGCCCTGTGGCCGA
4678 I S AGACCTCAGTGAGATGCCCCTCTTTGCAGATA
4678 P G S ATGACGTGGCAGACCTCAGTCAAATTCCCCTTACY
4678 P A S CGCGCCGAGGTTCAGTCAAATTCCCCTTACY
4678 T G S TGGGGTAAGGGGAATTTGACTGAGATCTGCAAAGAGGGGCATCTCACTGAGGTCTGG
4678 T A S TGGGGTAAGGGGAATTTGACTGAAATCTGCAAAGAGGGGCATCTCACTGAGGTCTGG
GAAAGGGACATCTGACCAAAGTTTGGGGAAAGATCTGTCTCACCAAGGTCTGGAGAAAGTGTCATCTGGTCGAGGTCTGGGGTAAGGGGAATTTGACTGA[
4678 IS [GA] GA]ATCTGCAAAGAGGGGCATCTCACTGAGGTCTGGGGAAAGGTTTGTCTGACTGAGTTCTGGAGAGAGGTTTGTCTGGCTGAGGTCTAGAGAAAGGGTTG
TA F5
4841 I A CCTTATAGAGAAGCCCACTGTGGTCACTGTTGAGATCC
4841 P G A ATGACGTGGCAGACGCCGTCAACAGCCT
4841 P T A CGCGCCGAGGTCCGTCAACAGCCTT
4841 T G A GACCAAGGCTGTTGACGGCGATCTCAACAGTGACCACAGTGGGCTTCTCTATAAGGGA
4841 T T A GACCAAGGCTGTTGACGGAGATCTCAACAGTGACCACAGTGGGCTTCTCTATAAGGGA
TTACCCTCTGCTGCTTCTGCTTCCCTTATAGAGAAGCCCACTGTGGTCACTGTTGAGATC[GT]CCGTCAACAGCCTTGGTCCTCTCTCTATCCTAGACATGG
4841 IS [GT] TGAGTACTAAGCTTTTTTAGT
4846 I S GTTGGGCACCTGCTGGTATTCCAGATATTTTCCTGA
4846 P G S ATGACGTGGCAGACCACCAGATCTTGGGTGAY
4846 P A S CGCGCCGAGGTACCAGATCTTGGGTGATY
4846 T G S GCTCATCACCCAAGATCTGGTGCAGGAAAAATATCTGGAATACCAGCAGGTGCCCAACAG
4846 T A S GCTCATCACCCAAGATCTGGTACAGGAAAAATATCTGGAATACCAGCAGGTGCCCAACAG
TGATGGAAAGAGGCACCTTATCTTTGGGGAACCCCGAAAGCTCATCACCCAAGATCTGGT[GA]CAGGAAAAATATCTGGAATACCAGCAGGTGCCCAACAG
4846 IS [GA] TGATCCCCCACGCTATCATTCC
4848 I A GTCTCTCAGTGCTCCCCCGTGTTCCTGA
4848 P C A ATGACGTGGCAGACCGGCATAGTACATATTGCC
4848 P T A CGCGCCGAGGTGGCATAGTACATATTGCC
4848 T C A GTTGGGCAATATGTACTATGCCGCAGGAACACGGGGGAGCACTGAGAGACAG
4848 T T A GTTGGGCAATATGTACTATGCCACAGGAACACGGGGGAGCACTGAGAGACAG
CTGTACAACCGTGAGTGGCAGCCACTCTACCCTGTCTCTCAGTGCTCCCCCGTGTTCCTG[CT]GGCATAGTACATATTGCCCAACCAACATCTCCTTTGGAC
4848 IS [CT] TTGGGACTACTCTTGGGACAT
4856 I S CCCCCCACACCTTCATCCTGGAAGGTCT
4856 P T S CGCGCCGAGGAGAAGAGGACCGAGTCY
4856 P C S ATGACGTGGCAGACGGAAGAGGACCGAGTCY
4856 T T S TCCTGACTCGGTCCTCTTCTGACCTTCCAGGATGAAGGTGTGGGGGGAA
4856 T C S TCCTGACTCGGTCCTCTTCCGACCTTCCAGGATGAAGGTGTGGGGGGAA
AGTGTCCCGCTCTCCTGTCCACTGGCTCTCCTCATATTCGTTCCTGACTCGGTCCTCTTC[TC]GACCTTCCAGGATGAAGGTGTGGGGGGAAGTTGAGTGC
4856 IS [TC] TGCCCCCCGCCACCAGTCTCCC
4870 I A CAGCTTCTTGACCCATGGGGGGTGGTTAA
4870 P C A ATGACGTGGCAGACCATGTAATAGGAAGGATTATGAAATAGY
4870 P T A CGCGCCGAGGTATGTAATAGGAAGGATTATGAAATAGTY
4870 T C A ACATACTATTTCATAATCCTTCCTATTACATGTAACCACCCCCCATGGGTCAAGAAGCTGGA
4870 T T A ACATACTATTTCATAATCCTTCCTATTACATATAACCACCCCCCATGGGTCAAGAAGCTGGA
TCGCATCTCAGTCTTGGTCTTCTAGGTGAGTCCAGCTTCTTGACCCATGGGGGGTGGTTA[CT]ATGTAATAGGAAGGATTATGAAATAGTATGTTTGTTGAA
4870 IS [CT] AAGAATTCAGATAGTACTGAA
4874 I S ACTAAAAATGGGCTGGGAGAAGAAGTAAAAATATATGTTTGACATT
4874 P T S CGCGCCGAGGATTATGGGGCCCTAGAAGY
4874 P C S ATGACGTGGCAGACGTTATGGGGCCCTAGAAY
4874 T T S AGTTCTTCTAGGGCCCCATAATATGTCAAACATATATTTTTACTTCTTCTCCCAGCCCATTTTTAGTAT
4874 T C S AGTTCTTCTAGGGCCCCATAACATGTCAAACATATATTTTTACTTCTTCTCCCAGCCCATTTTTAGTAT
GGCCAGGGAATAGAAGAATACATAATAAACAGTCTGCCTAGTTCTTCTAGGGCCCCATAA[TC]ATGTCAAACATATATTTTTACTTCTTCTCCCAGCCCATTTT
4874 IS [TC] TAGTATACCTAAATTACTG
4891 I A GCGCCTGTCCCCTAATTGCCCCTT
4891 P G A ATGACGTGGCAGACGTCCTTTGGGGGACAY
4891 P C A CGCGCCGAGGCTCCTTTGGGGGACAY
4891 T G A GAAGTGTCCCCCAAAGGACAGGGGCAATTAGGGGACAGGCGCGA
4891 T C A GAAGTGTCCCCCAAAGGAGAGGGGCAATTAGGGGACAGGCGCGA
CCGGACTCACCATGGTGAGTGCGGCCCGGCCGGGGTCGCGCCTGTCCCCTAATTGCCCCT[GC]TCCTTTGGGGGACACTTCTTCCAGGCATGCTCGGGG
4891 IS [GC] ACCTCCACCGGGCGTTCCGGGTCT
4919 I A CCCCAACCAGAACGTCCAGCAGGCA
4919 P C A ATGACGTGGCAGACCGCGGCAGGGGY
4919 P T A CGCGCCGAGGTGCGGCAGGGGY
4919 T C A AGGGCCCCTGCCGCGGCCTGCTGGACGTTCTGGTTGGGGCT
4919 T T A AGGGCCCCTGCCGCAGCCTGCTGGACGTTCTGGTTGGGGCT
GGGAGGCATCTGCAAGCTGGTGGACCTCCTCCGCAGCCCCAACCAGAACGTCCAGCAGGC[CT]GCGGCAGGGGCCCTGCGCAACCTGGTGTTCAGGAGC
4919 IS [CT] ACCACCAACAAGCTGGAGACCCGG PKP1
4951 I S TGAGATCAGGATTCTTCTGATGCACTTGCCATGGAGT
4951 P G S CGCGCCGAGGCAAGAGGTGCTCTAGTCT
4951 P C S ATGACGTGGCAGACGAAGAGGTGCTCTAGTCT
4951 T G S CAGGAGACTAGAGCACCTCTTGCTCCATGGCAAGTGCATCAGAAGAATCCTGATCTCATC
4951 T C S CAGGAGACTAGAGCACCTCTTCCTCCATGGCAAGTGCATCAGAAGAATCCTGATCTCATC
CATCTCTTATCCCTGATGTCACTACTGAGCTGGGAATCACAGGAGACTAGAGCACCTCTT[GC]CTCCATGGCAAGTGCATCAGAAGAATCCTGATCTCATCA
4951 IS [GC] CCTTTCCAGATGCTAGGGAAA
4974 I S GTACCGACCTGCCCTTTGGCACTGGA
4974 P A S CGCGCCGAGGTTAGACAACGGGGAACTY
4974 P G S ATGACGTGGCAGACCTAGACAACGGGGAACTY
4974 T A S CTGGAGTTCCCCGTTGTCTAACCAGTGCCAAAGGGCAGGTCGGTACCT
4974 T G S CTGGAGTTCCCCGTTGTCTAGCCAGTGCCAAAGGGCAGGTCGGTACCT
TTACATAAACCCTACTCCAAACAAATGCATGGGGATGTGGCTGGAGTTCCCCGTTGTCTA[AG]CCAGTGCCAAAGGGCAGGTCGGTACCTCACCCCACGTT
4974 IS [AG] CTTAACTATGGGTTGGCAACAT
4995 I A AGGCACCTCACAGAAATGAATAAGCAGAGGAATGAGTAAGAA
4995 P T A CGCGCCGAGGTGCCTCCTCTGCTTC
4995 P C A ATGACGTGGCAGACCGCCTCCTCTGCTT
4995 T T A CAGAGAAGCAGAGGAGGCATCTTACTCATTCCTCTGCTTATTCATTTCTGTGAGGTGCCTAC
4995 T C A CAGAGAAGCAGAGGAGGCGTCTTACTCATTCCTCTGCTTATTCATTTCTGTGAGGTGCCTAC
AAGTGAGAAGGGCTTGCGTAGGCACCTCACAGAAATGAATAAGCAGAGGAATGAGTAAGA[TC]GCCTCCTCTGCTTCTCTGCCACCCCAGATCCCAGCCCA
4995 IS [TC] CCCCTTCACCCCCACTCCCTAA
4996 I A GGAGGTTTACCAACAACCATGGGAGGTCCTCTTT
4996 P C A CGCGCCGAGGCCGCCACATCTGGCY
4996 P G A ATGACGTGGCAGACGCGCCACATCTGGY

FIGURE 129E

4996 T	C	A	GAGAGCCAGATGTGGCGGAAGAGGACCTCCCATGGTTGTTGGTAAACCTCCTT
4996 T	G	A	GAGAGCCAGATGTGGCGCAAGAGGACCTCCCATGGTTGTTGGTAAACCTCCTT
4996 IS	[CG]		ATTCCTGACACTACAGCAAATGCTGAAGGAGGTTTACCAACAACCATGGGAGGTCCTCTT[CG]CGCCACATCTGGCTCTCAAAGCTGAAAATAATTCTGAGG TAGGGGCCTCTGGCTATGGTG
4999 I		S	TGTTTTCATCACAGTGGGTGGCATTCTAGGCTCTTA
4999 P	G	S	ATGACGTGGCAGACCCCCCAGGCTTGGY
4999 P	A	S	CGCGCCGAGGTCCCCAGGCTTGGAY
4999 T	G	S	AGACTCCAAGCCTGGGGGAAGAGCCTAGAATGCCACCCACTGTGATGAAAACAGC
4999 T	A	S	AGACTCCAAGCCTGGGGAAAGAGCCTAGAATGCCACCCACTGTGATGAAAACAGC
4999 IS	[GA]		AGTGTGGTCAACGGGCAGAATGCTAAGATCATGGCATTGAGAGAGACTCCAAGCCTGGGG[GA]AAGAGCCTAGAATGCCACCCACTGTGATGAAAACAGCC AGCACTCACAATAGTGAGGGGC
5189 I		A	CACCCCCAGTCCCGCCTCCCA
5189 P	C	A	ATGACGTGGCAGACCCCTTCATTTCCTTGTTTTG
5189 P	T	A	CGCGCCGAGGTCCTTCATTTCCTTGTTTTG
5189 T	C	A	GTTCCAAAACAAGGAAATGAAGGGGGGAGGCGGGACTGGGGGTGCC
5189 T	T	A	GTTCCAAAACAAGGAAATGAAGGAGGGAGGCGGGACTGGGGGTGCC
5189 IS	[CT]		CCTCCTCCTCCTCCGCGACGGCGGCGGCGGCTCCCGCAGGCACCCCCAGTCCCGCCTCCC[CT]CCTTCATTTCCTTGTTTTGGAACCTGGTGGGCCGCGC CGTGGCTTCCTCGAGCTCATTAG
5190 I		A	GTCCCTGCCAGCATCCTGTTGGCCC
5190 P	G	A	ATGACGTGGCAGACGCCATTTTGACCCCTG
5190 P	T	A	CGCGCCGAGGTCCATTTTGACCCCTG
5190 T	G	A	CAGGCAGGGGTCAAAATGGCGGCCAACAGGATGCTGGCAGGGACCT
5190 T	T	A	CAGGCAGGGGTCAAAATGGAGGCCAACAGGATGCTGGCAGGGACCT
5190 IS	[GT]		GGATAGGAGATCCCACCCCCATTCTTATCCCCCGAGGTCCCTGCCAGCATCCTGTTGGCC[GT]CCATTTTGACCCCTGCCTGCTTCCTGCTCTTGCCTTCTT GGCTATCGCTGCTGGGACTCA
5191 I		S	GATGGCAGCCAATGTCTGCTCCGCTTA
5191 P	A	S	CGCGCCGAGGTGCAGAAGGGAGATGGY
5191 P	G	S	ATGACGTGGCAGACCGCAGAAGGGAGATGGY
5191 T	A	S	TCGGCCATCTCCCTTCTGCAAAGCGGAGCAGACATTGGCTGCCATCTG
5191 T	G	S	TCGGCCATCTCCCTTCTGCGAAGCGGAGCAGACATTGGCTGCCATCTG
5191 IS	[AG]		CACACCCTGGCTCCCCAAGGGCAGCGGGAGCTGGTGGGCCATCGGCCATCTCCCTTCTGC[AG]AAGCGGAGCAGACATTGGCTGCCATCTGCGGAGGGC CTGCCCATGCGGTGCCAGGGGCCT
5197 I		S	CTCCATAAGCCCTGGGAATCCCACAGGTGT
5197 P	C	S	ATGACGTGGCAGACGTGATACATGGCCCAGAY
5197 P	T	S	CGCGCCGAGGATGATACATGGCCCAGAY
5197 T	C	S	AGAGTCTGGGCCATGTATCACCACCTGTGGGATTCCCAGGGCTTATGGAGTT
5197 T	T	S	AGAGTCTGGGCCATGTATCATCACCTGTGGGATTCCCAGGGCTTATGGAGTT
5197 IS	[CT]		AGAAGCTCAGGTATGTGGCTCAGAGGATGAACAGAGAGGGAGAGTCTGGGCCATGTATCA[CT]CACCTGTGGGATTCCCAGGGCTTATGGAGTTTGGTCA GAGCAAGTGACCGGGGGGAGGCC
5212 I		S	CATGAGAGATCCACCCTTGTAAGGTGAGGTGGTCA
5212 P	A	S	CGCGCCGAGGTAATATGTTGACTATCTGCACA
5212 P	G	S	ATGACGTGGCAGACCAATATGTTGACTATCTGCAC
5212 T	A	S	CACCTGTGCAGATAGTCAACATATTAGACCACCTCACCTTACAAGGGTGGATCTCTCATGCA
5212 T	G	S	CACCTGTGCAGATAGTCAACATATTGGACCACCTCACCTTACAAGGGTGGATCTCTCATGCA
5212 IS	[AG]		GTCTCCAGATATTTTTTGCTTTCTATAAAAAGGCTCACCTGTGCAGATAGTCAACATATT[AG]GACCACCTCACCTTACAAGGGTGGATCTCTCATGCATCCT TTCTACACATTTATCAGGCT
5213 I		A	GCCATTGCTTTTCTCCTCCTGATTTGGACCTTTCTTGA
5213 P	T	A	CGCGCCGAGGTTCTTTAATATTATTGTTTAAGGCAAAT
5213 P	C	A	ATGACGTGGCAGACCTCTTTAATATTATTGTTTAAGGCAAAT
5213 T	T	A	TCACATTTGCCTTAAACAATAATATTAAAGAACAAGAAAGGTCCAAATCAGGAGGAGAAAAGCAATGGCTT
5213 T	C	A	TCACATTTGCCTTAAACAATAATATTAAAGAGCAAGAAAGGTCCAAATCAGGAGGAGAAAAGCAATGGCTT
5213 IS	[TC]		ATTTCCATCTTTTTCCAAATGAAGCCATTGCTTTTCTCCTCCTGATTTGGACCTTTCTTG[TC]TCTTTAATATTATTGTTTAAGGCAAATGTGATCAGTTTAAAA CTCATGTTGTCTGGGGTT
5236 I		S	CTTCTGCAGGGCCTCCCGCACCT
5236 P	T	S	CGCGCCGAGGAGGTCCAGCCAGTC
5236 P	G	S	ATGACGTGGCAGACCGGTCCAGCCAGTC
5236 T	T	S	TGAGGACTGGCTGGACCTGGTGCGGGAGGCCCTGCAGAAGGT
5236 T	G	S	TGAGGACTGGCTGGACCGGGTGCGGGAGGCCCTGCAGAAGGT
5236 IS	[TG]		CTGGCAAGAAGCTGGCCCTGCGCGCCTCCTCCCAGGACGAAGCTGAGGACTGGCTGGACC[TG]GGTGCGGGAGGCCCTGCAGAAGGTCCGGCCTCAGC AGGAGGATGAGTGGGTGAACGTGCA
5281 I		S	CCACATGTCCCAAACACCTCCTGTCACTTAGTTAACCA
5281 P	A	S	CGCGCCGAGGTCCCTTTCTAATGTACAGAGA
5281 P	G	S	ATGACGTGGCAGACCCCCTTTCTAATGTACAGAG
5281 T	A	S	GCTGTCTCTGTACATTAGAAAGGGAGGTTAACTAAGTGACAGGAGGTGTTTGGGACATGTGGAC
5281 T	G	S	GCTGTCTCTGTACATTAGAAAGGGGGGTTAACTAAGTGACAGGAGGTGTTTGGGACATGTGGAC
5281 IS	[AG]		TGTGCGCCTGAGAACCCCTGTGGAGTGGGAGGGGCAGCTGTCTCTGTACATTAGAAAGGG[AG]GGTTAACTAAGTGACAGGAGGTGTTTGGGACATGTGG ACACCAGACTTCTCTCTTGATGC
5291 I		S	GCCCGTCCCCATTTATCAAATTACCCAGATTATTTGAGTTGACC
5291 P	C	S	ATGACGTGGCAGACGTGGACAGCTGAATCC
5291 P	A	S	CGCGCCGAGGTTGGACAGCTGAATCCT
5291 T	C	S	CAAGAGGATTCAGCTGTCCACGTCAACTCAAATAATCTGGGTAATTTGATAAATGGGGACGGGCCA
5291 T	A	S	CAAGAGGATTCAGCTGTCCAAGTCAACTCAAATAATCTGGGTAATTTGATAAATGGGGACGGGCCA
5291 IS	[CA]		GTGGCAAGTCACTAAAGTGGCTTCCCAGGTAAGCAGCTCACAAGAGGATTCAGCTGTCCA[CA]GTCAACTCAAATAATCTGGGTAATTTGATAAATGGGGAC GGGCCACAAAGTAGTGCTGCA
5353 I		S	CCGGATAGAGCCTCCCTCACCATCCTCTTTCA
5353 P	G	S	ATGACGTGGCAGACCACACCTCTAGCCCAG
5353 P	A	S	CGCGCCGAGGTACACCTCTAGCCCAG
5353 T	G	S	GTTCCTGGGCTAGAGGTGTGGAAAGAGGATGGTGAGGGAGGCTCTATCCGGGC
5353 T	A	S	GTTCCTGGGCTAGAGGTGTAGAAAGAGGATGGTGAGGGAGGCTCTATCCGGGC
5353 IS	[GA]		AGGAGGGCAGACAGGCAGACACTAGGGCCCATCCTGGGCTGGTTCCTGGGCTAGAGGTGT[GA]GAAAGAGGATGGTGAGGGAGGCTCTATCCGGGCTAG GTTTAACCCTCTCCTTCCCAGGCC
5395 I		S	GGCCCCCAGACACTGCCCCAT
5395 P	C	S	ATGACGTGGCAGACGCTGCTTGTAGGCAC
5395 P	T	S	CGCGCCGAGGACTGCTTGTAGGCACT
5395 T	C	S	TTGAAGTGCCTACAAGCAGCTGGGGCAGTGTCTGGGGGCCCA
5395 T	T	S	TTGAAGTGCCTACAAGCAGTTGGGGCAGTGTCTGGGGGCCCA
5395 IS	[CT]		GAAGGCATGTGGGACCAGGTCATCTTGGAGGATGTGCGAGGTTGAAGTGCCTACAAGCAG[CT]TGGGGCAGTGTCTGGGGGCCCACCTGTTCTGTAGGGT CATCGTCCTCTGGCCGCCGCGGC
5466 I		S	TCCTAAGCCCTCCATCTCCAGCAGCAACTTAAAA
5466 P	A	S	CGCGCCGAGGTCCCAGGGAGACCA
5466 P	G	S	ATGACGTGGCAGACCCCCAGGGAGACCA
5466 T	A	S	TCCATGGTCTCCCTGGGATTTAAGTTGCTGCTGGAGATGGAGGGCTTAGGAGT
5466 T	G	S	TCCATGGTCTCCCTGGGGTTTAAGTTGCTGCTGGAGATGGAGGGCTTAGGAGT
5466 IS	[AG]		GCTTGCGTCTGGAGTCTCAGGGTCACAGGTTAAGCTCACAGCCTCCATGGTCTCCCTGGG[AG]TTTAAGTTGCTGCTGGAGATGGAGGGCTTAGGAGTCT CCACTGTGCAGAAAACAGGGTGA
5492 I		S	CCTGGCACAGGAGTTCTATTTGCATTTCTCTCTCATTCTA
5492 P	A	S	CGCGCCGAGGTCTCCCTGATTTGATACAGY
5492 P	G	S	ATGACGTGGCAGACCCTCCCTGATTTGATACAGY
5492 T	A	S	AAAGCTGTATCAAATCAGGGAGAAGAATGAGAGAGAAATGCAAATAGAACTCCTGTGCCAGGGT

Applicant's Docket No. 25230-2004

FIGURE 129E

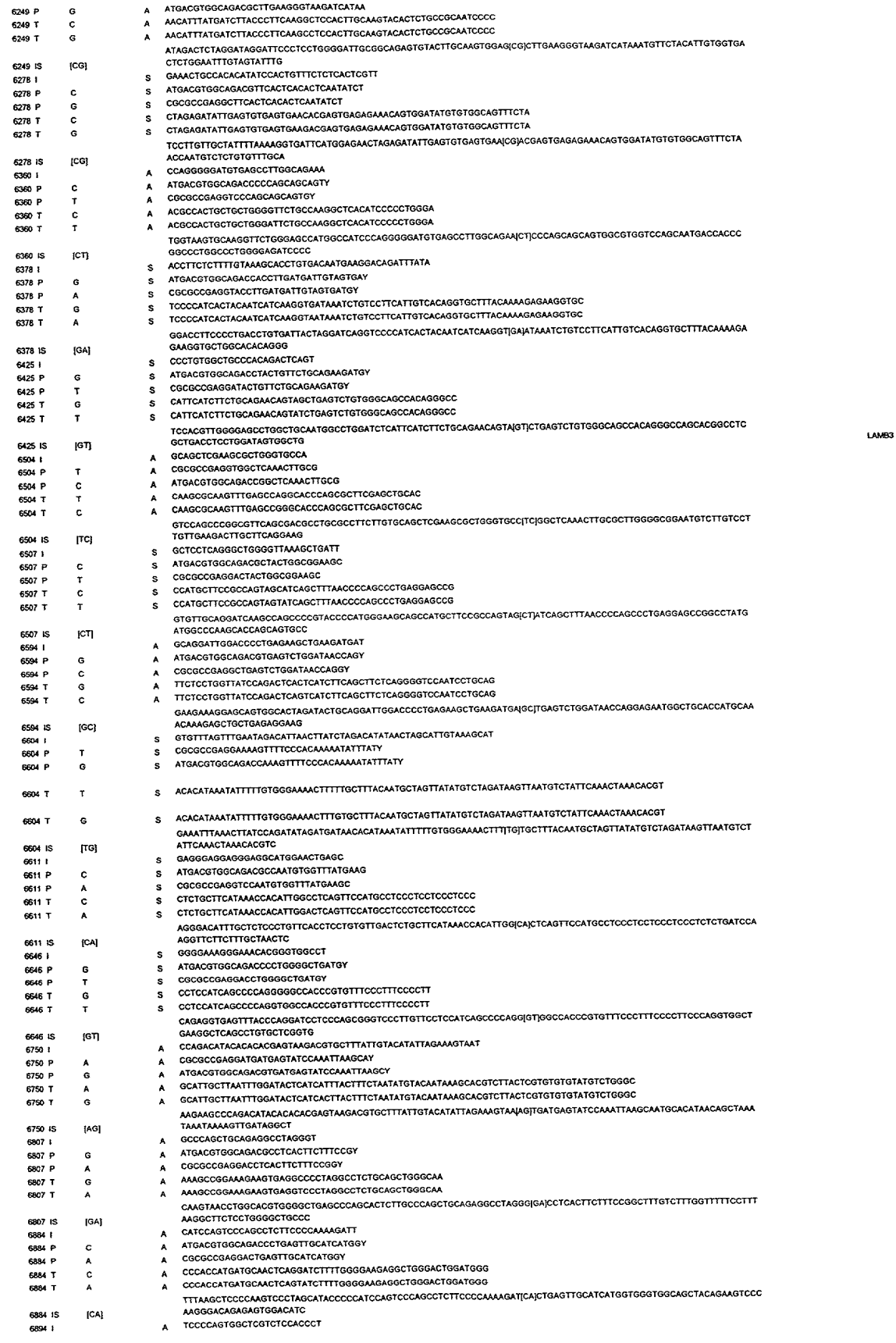


SAA1

FIGURE 129E

5866 T	A	S	CTGCGAGTTGTATAAGAATTATAGGAAATATTTTATGAAATGAGGTCATTACAAACCCCATTACATTTCTCAGACTCAGATGGT
5866 T	C	S	CTGCGAGTTGTATAAGAATTATAGGAAATATTTTCTGAAATGAGGTCATTACAAACCCCATTACATTTCTCAGACTCAGATGGT
5866 IS	[AC]		TTGAGTTGTATAGTCTTCATTTGAACCTGCGAGTTGTATAAGAATTATAGGAAATATTTT[AC]TGAAATGAGGTCATTACAAACCCCATTACATTTCTCAGACT CAGATGGTCAAAAAAATAA
5871 I		S	GCTCTCACATTTTTGTTTGTATTTCTTCATCCTCTGCCTGGTTGT
5871 P	T	S	CGCGCCGAGGACCTGTCCTGGAGCY
5871 P	C	S	ATGACGTGGCAGACGCCTGTCCTGGAGCY
5871 T	T	S	CCACGCTCCAGGACAGGTCAACCAGGCAGAGGATGAAGAAATACAAACAAAAATGTGAGAGCAG
5871 T	C	S	CCACGCTCCAGGACAGGCCAACCAGGCAGAGGATGAAGAAATACAAACAAAAATGTGAGAGCAG
5871 IS	[TC]		ATGGGCTTGTGGAGTGCGTGGAGTCCAAGAACCCGATCAGACCCCACGCTCCAGGACAGG[TC]CAACCAGGCAGAGGATGAAGAAATACAAACAAAAATGT GAGAGCAGTGAGGTCCGAGGAG
5889 I		A	CCATGTCCCCACCTACATAAGAAATAGCTTCAGAGTAAAAAGGTTTTT
5889 P	G	A	ATGACGTGGCAGACGAAAGCTTTGCTTAAAATTCCY
5889 P	A	A	CGCGCCGAGGAAAAGCTTTGCTTAAAATTCCCY
5889 T	G	A	GATTGGGAATTTTAAGCAAAGCTTTCAAAACCTTTTTACTCTGAAGCTATTTCTTATGTAGGTGGGGACATGGTG
5889 T	A	A	GATTGGGAATTTTAAGCAAAGCTTTTAAAACCTTTTTACTCTGAAGCTATTTCTTATGTAGGTGGGGACATGGTG
5889 IS	[GA]		GCACATTCCCACACCATGTCCCCACCTACATAAGAAATAGCTTCAGAGTAAAAAGGTTTT[GA]AAAGCTTTGCTTAAAATTCCCAATCAAATTTTAATTTTATCT CTGGTCTCTAATTAACGT
6043 I		S	CCAAAGACCAGTTATTAAAATGATTAAAGCTGTACATTTGCACTGTGTAAAGAACATT
6043 P	T	S	CGCGCCGAGGATAATTTTCTAAAAAGCAAATAATTTCATAATAY
6043 P	C	S	ATGACGTGGCAGACGTAATTTTCTAAAAAGCAAATAATTTCATAAY
6043 T	T	S	ACTGTATTATGAAATTATTTGCTTTTTAGAAAATTATATGTTCTTTACACAGTGCAAATGTACAGCTTTAATCATTTTAATAACTGGTCTTTGGTT
6043 T	C	S	ACTGTATTATGAAATTATTTGCTTTTTAGAAAATTACATGTTCTTTACACAGTGCAAATGTACAGCTTTAATCATTTTAATAACTGGTCTTTGGTT
6043 IS	[TC]		TCCATTCAGAAAAATTTCCTAGGTACTGTATTATGAAATTATTTGCTTTTTAGAAAATTA[TC]ATGTTCTTTACACAGTGCAAATGTACAGCTTTAATCATTTTAA TAACTGGTCTTTGGTTT
6054 I		S	CTCCTGGCTGTGAGCCAGGCTTCTCAAT
6054 P	T	S	CGCGCCGAGGAAAGCCACCTGCCG
6054 P	C	S	ATGACGTGGCAGACGAAGCCACCTGCCG
6054 T	T	S	CTGGCGGCAGGTGGCTTTTTGAGAAGCCTGGCTCACAGCCAGGAGGG
6054 T	C	S	CTGGCGGCAGGTGGCTTCTTGAGAAGCCTGGCTCACAGCCAGGAGGG
6054 IS	[TC]		GCTCGTTAGAATGCACCTGACTAGGGCCCTCAGTGGGACTTGGCTGGCGGCAGGTGGCTT[TC]TTGAGAAGCCTGGCTCACAGCCAGGAGGGAAGGGGC TGAGAACAGGACCTGTGCTCACTG
6067 I		S	TCCAGTGGGCGCATGCTTCCCCA
6067 P	A	S	CGCGCCGAGGTGAAGGCCCCTCTG
6067 P	G	S	ATGACGTGGCAGACCGAAGGCCCCTCTG
6067 T	A	S	GGAGCAGAGGGGCCTTCAGGGGAAGCATGCGCCCACTGGACC
6067 T	G	S	GGAGCAGAGGGGCCTTCGGGGGAAGCATGCGCCCACTGGACC
6067 IS	[AG]		GTTCCCTAGTCACTGTGACAGCCTCTAGGACAGTACCCTCAGAGGAGCAGAGGGGCCTTC[AG]GGGGAAGCATGCGCCCACTGGACCAGGGCCCCTGAAC TCACAACTCTGCCTTTCTTTCAC
6079 I		A	GCCTGGGGCAGGATTTCCCCATCACC
6079 P	T	A	CGCGCCGAGGTCACTGATGAGCCCAC
6079 P	G	A	ATGACGTGGCAGACGCACTGATGAGCCCA
6079 T	T	A	GGGTGTGGGCTCATCAGTGAGTGATGGGGAAATCCTGCCCCAGGCCT
6079 T	G	A	GGGTGTGGGCTCATCAGTGCGTGATGGGGAAATCCTGCCCCAGGCCT
6079 IS	[TG]		TCTGGCAGTTTGATTCACAAAGCAGCCTGGGCTAGGCCTGGGGCAGGATTTCCCCATCAC[TG]CACTGATGAGCCCACACCCTCTGCTTTAGTCCTGAGCC CTGGCTGCAGCGTGTGCCTCCC
6174 I		A	TGTTTACAAACGTAGAAATAGCTGCTTCTCTCTCCCTCCCA
6174 P	T	A	CGCGCCGAGGTCTCTTTCCCTGTCTCTTT
6174 P	C	A	ATGACGTGGCAGACCCTCTTTCCCTGTCTCTT
6174 T	T	A	AGAGAAAGAGACAGGGAAAGAGAGGGAGGGAGAGAGAAGCAGCTATTTCTACGTTTGTAAACAGA
6174 T	C	A	AGAGAAAGAGACAGGGAAAGAGGGGGAGGGAGAGAGAAGCAGCTATTTCTACGTTTGTAAACAGA
6174 IS	[TC]		TCTCGCATTATAACTGATTCTGTTTACAAACGTAGAAATAGCTGCTTCTCTCTCCCTCCC[TC]CTCTTTCCCTGTCTCTTTCTCTTTTGTTCTAATGAAATGGT GGCAGTGGGAAGGATCCAT
6177 I		A	GGCTCCTTACGAAGTCAAGGTAAAAATGATGGTTT
6177 P	C	A	CGCGCCGAGGCAACCAGAACCTTGTGAA
6177 P	G	A	ATGACGTGGCAGACGAACCAGAACCTTGTGAAA
6177 T	C	A	GCTTTTTCACAAGGTTCTGGTTGAACCATCATTTTTACCTTGACTTCGTAAGGAGCCAA
6177 T	G	A	GCTTTTTCACAAGGTTCTGGTTCAACCATCATTTTTACCTTGACTTCGTAAGGAGCCAA
6177 IS	[CG]		AATGCCATATTGTATGCTTTTTATTTGGCTCCTTACGAAGTCAAGGTAAAAATGATGGTT[CG]AACCAGAACCTTGTGAAAAAGCACTCATGGATGTTCCTCTT TGACTTTGGCTATTTAAAA
6186 I		S	GCTCCAATATTCTCACTGTGCATGCTAGAGGAAGCTTTTAGATCT
6186 P	T	S	CGCGCCGAGGATGACAGACCTTCCTCG
6186 P	C	S	ATGACGTGGCAGACGTGACAGACCTTCCTCG
6186 T	T	S	GAATCGAGGAAGGTCTGTCATGATCTAAAAGCTTCCTCTAGCATGCACAGTGAGAATATTGGAGCAG
6186 T	C	S	GAATCGAGGAAGGTCTGTCACGATCTAAAAGCTTCCTCTAGCATGCACAGTGAGAATATTGGAGCAG
6186 IS	[TC]		GGATTTCAGAACTTAGAAAGATTTCTTCTATCATTATGGAGAATCGAGGAAGGTCTGTCA[TC]GATCTAAAAGCTTCCTCTAGCATGCACAGTGAGAATATTG GAGCAGTGATGCTAAATTTC
6191 I		A	GTGCTGGAAACAGATGATATGCTTAAAGGAAAAACAAAAGTGTAAACACAGT
6191 P	G	A	ATGACGTGGCAGACGGATGCACGATCTTTTTG
6191 P	A	A	CGCGCCGAGGAGATGCACGATCTTTTTGA
6191 T	G	A	ATTTTCAAAAAGATCGTGCATCCCTGTGTTTACACTTTTGTTTTTCCTTTAAGCATATCATCTGTTTCCAGCACCG
6191 T	A	A	ATTTTCAAAAAGATCGTGCATCTCTGTGTTTACACTTTTGTTTTTCCTTTAAGCATATCATCTGTTTCCAGCACCG
6191 IS	[GA]		TTATTGCCGGTGCTGGAAACAGATGATATGCTTAAAGGAAAAACAAAAGTGTAAACACAG[GA]GATGCACGATCTTTTTGAAAATCCCCATGGATCTTTATTA TCCTGTAGGTTTTTCCTCCA
6204 I		S	CATGGGAGCCAAGTCACTATCCCAGTTGGCT
6204 P	C	S	ATGACGTGGCAGACGTGGCCTCTTCATGC
6204 P	T	S	CGCGCCGAGGATGGCCTCTTCATGCA
6204 T	C	S	ATCCTGCATGAAGAGGCCACGCCAACTGGGATAGTGACTTGGCTCCCATGGC
6204 T	T	S	ATCCTGCATGAAGAGGCCATGCCAACTGGGATAGTGACTTGGCTCCCATGGC
6204 IS	[CT]		GGCTCAGTCTCTGTCCAAAAGGGTCACGGGCCCTCCAGTCCATCCTGCATGAAGAGGCCA[CT]GCCAACTGGGATAGTGACTTGGCTCCCATGGCTGCCC TCTTTTACGTTCTAAGCCTCCTT
6225 I		S	GGTTCCAAGCCTCACACCAGAGTCACCAAATGAAAATTATT
6225 P	T	S	CGCGCCGAGGACCTCACCCAAGACAAT
6225 P	C	S	ATGACGTGGCAGACGCCTCACCCAAGACA
6225 T	T	S	ACTTATTGTCTTGGGTGAGGTATAATTTTCATTTGGTGACTCTGGTGTGAGGCTTGGAACCCA
6225 T	C	S	ACTTATTGTCTTGGGTGAGGCATAATTTTCATTTGGTGACTCTGGTGTGAGGCTTGGAACCCA
6225 IS	[TC]		AGTGGTAAGCAATAGAGATTGTCTTGCCCTCTCTTGGACTACTTATTGTCTTGGGTGAGG[TC]ATAATTTTCATTTGGTGACTCTGGTGTGAGGCTTGGAAC CCATACTCATTAATTTAGATA
6241 I		S	TCAAGAGGGAGAAATTATTACAATCACTCTGTACCAGGCAATGAGTAA
6241 P	G	S	ATGACGTGGCAGACCATATTCATCTTGAACAGAAATGA
6241 P	A	S	CGCGCCGAGGTATATTCATCTTGAACAGAAATGAG
6241 T	G	S	TCTTCTCATTTCTGTTCAAGATGAATATGTACTCATTGCCTGGTACAGAGTGATTGTAATAATTTCTCCCTCTTGAGG
6241 T	A	S	TCTTCTCATTTCTGTTCAAGATGAATATATACTCATTGCCTGGTACAGAGTGATTGTAATAATTTCTCCCTCTTGAGG
6241 IS	[GA]		AGCATCTCAGTGATTTCATATTTATTCTACATTCTTCTCATTTCTGTTCAAGATGAATAT[GA]TACTCATTGCCTGGTACAGAGTGATTGTAATAATTTCTCCCT CTTGAGGGAAGGCTCTTA
6249 I		A	GGATTGCGGCAGAGTGTACTTGCAAGTGGAGT
6249 P	C	A	CGCGCCGAGGCCTTGAAGGGTAAGATCATAAA

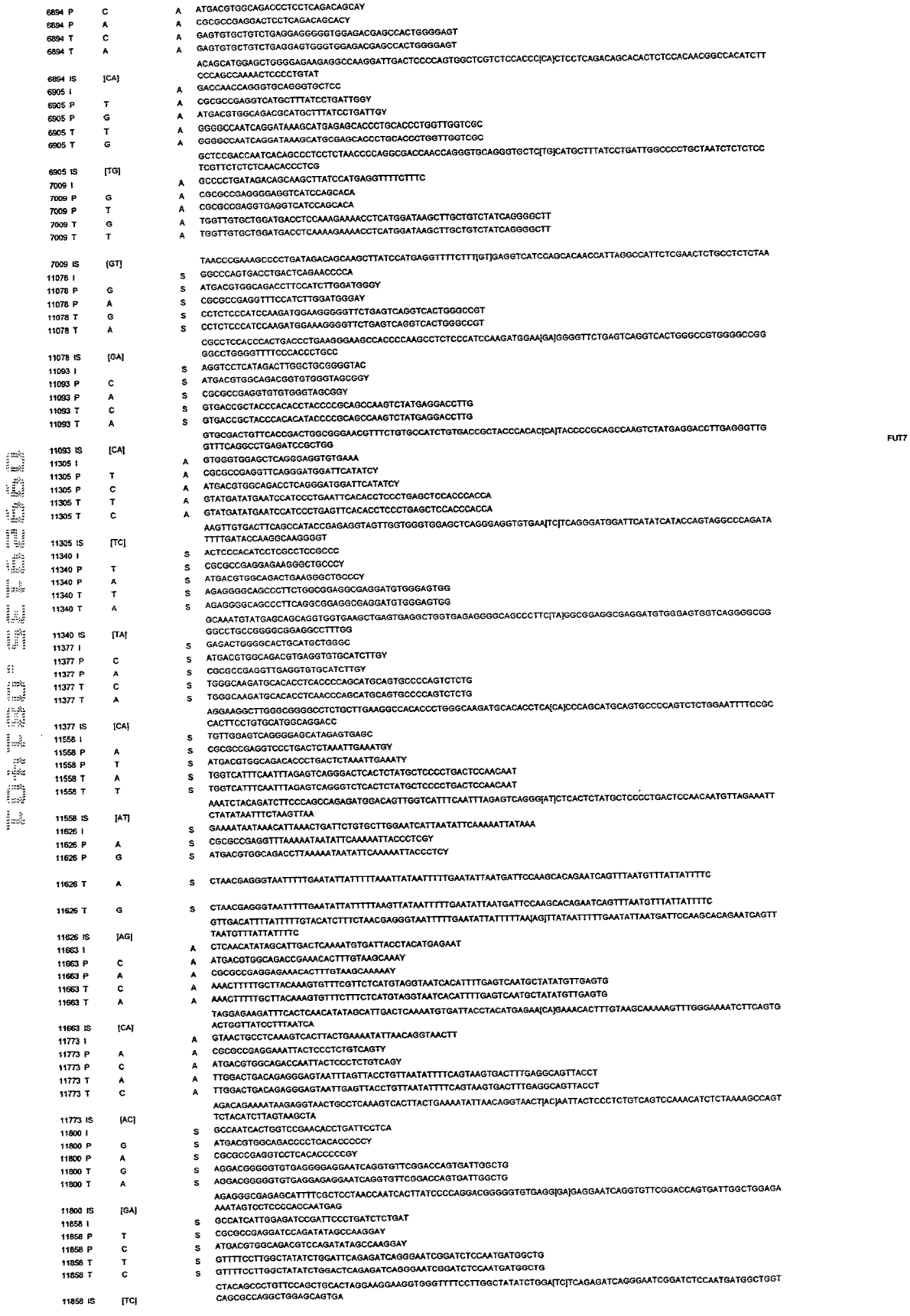
FIGURE 129E



LAMB3

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FIGURE 129E



FUT7

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FIGURE 129E

11888 I		S	AAAACAAACAACAAAAATCAGTTTCAAATGAAGCAAGGTTGTT		
11888 P	C	S	ATGACGTGGCAGACGTATTACATTCTCTCTTTTTGACACY		
11888 P	T	S	CGCGCCGAGGATATTACATTCTCTCTTTTTGACACY		
11888 T	C	S	AAATGTGTCAAAAAGAGAGAATGTAATACACAACCTTGCTTCATTTGAAACTGATTTTTGTTGTTTGTTTTTG		
11888 T	T	S	AAATGTGTCAAAAAGAGAGAATGTAATATACAACCTTGCTTCATTTGAAACTGATTTTTGTTGTTTGTTTTTG		
11888 IS	[CT]		CTTGAGAAAGACTTGGGAGAAAAAGACAAAACAAATGTGTCAAAAAGAGAGAATGTAATA[CT]ACAACCTTGCTTCATTTGAAACTGATTTTTGTTGTTTGTTT TTGTTTCGTTTTGTTTTTT		
11945 I		S	GTGTGTGCACACCTGTGCCTGTGTACCC		
11945 P	A	S	CGCGCCGAGGTTTGTGTACCTTGGTTTAGGY		
11945 P	T	S	ATGACGTGGCAGACATTGTGTACCTTGGTTTAGGY		
11945 T	A	S	CCTCCCTAAACCAAGGTACACAAAGGTACACAGGCACAGGTGTGCACACACGT		
11945 T	T	S	CCTCCCTAAACCAAGGTACACAATGGTACACAGGCACAGGTGTGCACACACGT		
11945 IS	[AT]		GCTGAATTTGAGATACACCTGTGGCGGGAGTGTGGGTCCTCCCTAAACCAAGGTACACAA[AT]GGTACACAGGCACAGGTGTGCACACACGTGCACCAGCT CAGACACACAGGCTGGAACATG		
11977 I		A	CTTCCTCAAGTTCCCTCTGTTGCCTGTTTATTTTAACATAGTGGT		
11977 P	A	A	CGCGCCGAGGAAAAATTAGCAGTGGTTTTCCY		
11977 P	G	A	ATGACGTGGCAGACGAAAATTAGCAGTGGTTTTCCY		
11977 T	A	A	GAAAGGAAAACCACTGCTAATTTTTCCACTATGTTAAAATAAACAGGCAACAGAGGGAACTTGAGGAAGGA		
11977 T	G	A	GAAAGGAAAACCACTGCTAATTTTCCCACTATGTTAAAATAAACAGGCAACAGAGGGAACTTGAGGAAGGA		
11977 IS	[AG]		TGCTTCTGGAAACGTCCTTCCTCAAGTTCCCTCTGTTGCCTGTTTATTTTAACATAGTGG[AG]AAAATTAGCAGTGGTTTTCCTTTCTATAGAACAACAAACCA CAAAGTTTAGGATATTTTT		
12034 I		S	CACAGCTTCAGCGAGTTTCAAACCAAATCAACAGTCTCA		
12034 P	G	S	ATGACGTGGCAGACCCTTTTAACTTTCTCAAATCCCY		
12034 P	A	S	CGCGCCGAGGTCTTTTAACTTTCTCAAATCCCY		
12034 T	G	S	CCTGGGGATTTGAGAAAGTTAAAAGGGAGACTGTTGATTTGGTTTGAAACTCGCTGAAGCTGTGTG		
12034 T	A	S	CCTGGGGATTTGAGAAAGTTAAAAGAGAGACTGTTGATTTGGTTTGAAACTCGCTGAAGCTGTGTG		
12034 IS	[GA]		AGGCAGTGCTGATTGATTGCATGATTTATGTAACTCCTGGGGATTTGAGAAAGTTAAAAG[GA]GAGACTGTTGATTTGGTTTGAAACTCGCTGAAGCTGTGT GGTAGGTGGCTCACCCAAGGG		
12037 I		A	CCCAGGGTTGTCAGCGGAGCCCC		
12037 P	T	A	CGCGCCGAGGTGCAGGGCTTCTTCTY		
12037 P	A	A	ATGACGTGGCAGACAGCAGGGCTTCTTCTY		
12037 T	T	A	CCAAGAGAAGAAGCCCTGCAGGGCTCCGCTGACAACCCTGGGGC		
12037 T	A	A	CCAAGAGAAGAAGCCCTGCTGGGCTCCGCTGACAACCCTGGGGC		
12037 IS	[TA]		GGTGCCAAGCTCTGTTCGGGGACTGTCTGGTCTGGGGCCCCAGGGTTGTCAGCGGAGCCC[TA]GCAGGGCTTCTTCTCTTGGCAAGTTATACAGTGCCTT GGAAGTGCAAGGGCGAGGCCTGG		
12113 I		A	CTGCTGCCTGGCATGACATCTCTCCAGAA		
12113 P	C	A	ATGACGTGGCAGACCTTCTGGCTTAAAACCAACTY		
12113 P	T	A	CGCGCCGAGGTTTCTGGCTTAAAACCAACTY		
12113 T	C	A	GGAAAGTTGGTTTTAAGCCAGAAGTCTGGAGAGATGTCATGCCAGGCAGCAGCC		
12113 T	T	A	GGAAAGTTGGTTTTAAGCCAGAAATCTGGAGAGATGTCATGCCAGGCAGCAGCC		
12113 IS	[CT]		CACTGCCCCACAAAGGCCTGGGCCCGTGGGGGCTGCTGCCTGGCATGACATCTCTCCAGA[CT]TTCTGGCTTAAAACCAACTTTCCATCCGAGAAGCCTCC TCAGTAGTTACTCTGCTCATGA	PPL	
12116 I		A	GGCTGCCTCGACTCCTGCACCTGTCT		
12116 P	C	A	CGCGCCGAGGCCGAGGGCTGGCY		
12116 P	G	A	ATGACGTGGCAGACGCGAGGGCTGGCY		
12116 T	C	A	TCAGGCCAGCCCTCGGGACAGGTGCAGGAGTCGAGGCAGCCCC		
12116 T	G	A	TCAGGCCAGCCCTCGCGACAGGTGCAGGAGTCGAGGCAGCCCC		
12116 IS	[CG]		AGTCGAGGGGCGCTTAGGCGCTGCCTTTCCCCAGGGGCTGCCTCGACTCCTGCACCTGTC[CG]CGAGGGCTGGCCTGAGACGGGACTCCCGGTTCTCCC GCTGCGAAGCAGCGCGGCCCCCCG		
12143 I		A	TCCCCTGCAGGCCTGGTCTCCACT		
12143 P	G	A	ATGACGTGGCAGACGAGCTCCGTGTCCTGY		
12143 P	A	A	CGCGCCGAGGAAGCTCCGTGTCCTGY		
12143 T	G	A	GACCCAGGACACGGAGCTCGTGGAGACCAGGCCTGCAGGGGATG		
12143 T	A	A	GACCCAGGACACGGAGCTTGTGGAGACCAGGCCTGCAGGGGATG		
12143 IS	[GA]		AGGCACCACCACAGACGCCCACTTCTGGAAGGTTCCATCCCCTGCAGGCCTGGTCTCCAC[GA]AGCTCCGTGTCCTGGGTCTGGTCCTCCCCATCCCGCT GCCAGGTCAGTGTGATCTCCGCA	MULTIPLE SHORT GENE NAMES	
12144 I		S	TGACTCTTCCTGACAGACCCCCCCAAGACT		
12144 P	C	S	ATGACGTGGCAGACGCATATGACCCACCACY		
12144 P	T	S	CGCGCCGAGGACATATGACCCACCACCY		
12144 T	C	S	ATGGGGTGGTGGGTCATATGCGTCTTGGGGGGGTCTGTCAGGAAGAGTCAGA		
12144 T	T	S	ATGGGGTGGTGGGTCATATGTGTCTTGGGGGGGTCTGTCAGGAAGAGTCAGA		
12144 IS	[CT]		GCTCAGGGCCCAGCACCTCAGGGTGGCCTCATGGTCAGAGATGGGGTGGTGGGTCATATG[CT]GTCTTGGGGGGGTCTGTCAGGAAGAGTCAGAAAATTC AGGCATTTTGCATCTGTCATGGG		
12146 I		A	TGTCAGGAAGAGTCAGAAAATTCAGGCATTTTGCATCTGTT		
12146 P	C	A	ATGACGTGGCAGACCATGGGACACTCCTCCY		
12146 P	A	A	CGCGCCGAGGAATGGGACACTCCTCCY		
12146 T	C	A	TGCTGGAGGAGTGTCCCATTACAGATGCAAAATGCCTGAATTTTCTGACTCTTCCTGACAGA		
12146 T	A	A	TGCTGGAGGAGTGTCCCATTACAGATGCAAAATGCCTGAATTTTCTGACTCTTCCTGACAGA		
12146 IS	[CA]		ATATGTGTCTTGGGGGGGTCTGTCAGGAAGAGTCAGAAAATTCAGGCATTTTGCATCTG[TC]ATGGGACACTCCTCCAGCACACATGTGGCTATCTTGAGA ATGGACAGGACACCTGGGATG		
12149 I		A	ACACATGTGGCTATCTTGAGAATGGACAGGACACCA		
12149 P	T	A	CGCGCCGAGGTGGGATGGGGAAGGY		
12149 P	C	A	ATGACGTGGCAGACCGGGATGGGGAAGGY		
12149 T	T	A	GCTCCCTTCCCCATCCCAGGTGTCCTGTCCATTCTCAAGATAGCCACATGTGTGC		
12149 T	C	A	GCTCCCTTCCCCATCCCGGGTGTCCTGTCCATTCTCAAGATAGCCACATGTGTGC		
12149 IS	[TC]		ATCTGTCATGGGACACTCCTCCAGCACACATGTGGCTATCTTGAGAATGGACAGGACACC[TC]GGGATGGGGAAGGGAGCACAGAACCCAGACACCAGCC TGGACACAGGCACCTGGGATAAT		
12181 I		S	GAGAAAAAGAGTCCATGGAGGTGGTCACTCCTGTA		
12181 P	G	S	ATGACGTGGCAGACCCCTCCAGGTCTCTGY		
12181 P	A	S	CGCGCCGAGGTCCTCCAGGTCTCTGGY		
12181 T	G	S	ATGCCCAGAGACCTGGAGGGACAGGAGTGACCACCTCCATGGACTCTTTTTCTCTC		
12181 T	A	S	ATGCCCAGAGACCTGGAGGAACAGGAGTGACCACCTCCATGGACTCTTTTTCTCTC		
12181 IS	[GA]		TACCCCAACTGGGATCAAAATCCAGGCATCTCTCAAAAAACATGCCCAGAGACCTGGAGG[GA]ACAGGAGTGACCACCTCCATGGACTCTTTTTCTCTCTCT CACTTGCAGAAAGCGTCCCTG		
12182 I		A	TGGAGGGACAGGAGTGACCACCTCCATC		
12182 P	G	A	ATGACGTGGCAGACGGACTCTTTTTCTCTCTCTCY		
12182 P	T	A	CGCGCCGAGGTGACTCTTTTTCTCTCTCTCAY		
12182 T	G	A	CAAGTGAGAGAGAGAAAAAGAGTCCATGGAGGTGGTCACTCCTGTCCCTCCAGG		
12182 T	T	A	CAAGTGAGAGAGAGAAAAAGAGTCAATGGAGGTGGTCACTCCTGTCCCTCCAGG		
12182 IS	[GT]		CCAGGCATCTCTCAAAAAACATGCCCAGAGACCTGGAGGGACAGGAGTGACCACCTCCAT[GT]GACTCTTTTTCTCTCTCTCACTTGCAGAAAGCGTCCCTG GAGAACAGCCTGGAGGAGACC		
12183 I		S	GCGTCTTCACGTCCAGCAAGATCTGGTACTCCA		
12183 P	A	S	CGCGCCGAGGTGGCTCTGCTGCTCY		
12183 P	G	S	ATGACGTGGCAGACCGGCTCTGCTGCTY		
12183 T	A	S	GATGGAGCAGCAGAGCCAGGAGTACCAGATCTTGCTGGACGTGAAGACGCGG		
12183 T	G	S	GATGGAGCAGCAGAGCCGGGAGTACCAGATCTTGCTGGACGTGAAGACGCGG		
12183 IS	[AG]		TGATTGGCAGTGTGGAGGAGCAGCTGGCCCAGCTACGCTGTGAGATGGAGCAGCAGAGCC[AG]GGAGTACCAGATCTTGCTGGACGTGAAGACGCGGCT GGAGCAGGAGATTGCCACCTACCG	KRT16	
12184 I		A	CTGGAACGAAAATACAGCAGCCTAATGACTGTCATTAACAAAATGAA		

FIGURE 129E

12184 P	C	A	ATGACGTGGCAGACCGCATTAACAATGCTGATCY
12184 P	T	A	CGCGCCGAGGTGCATTAACAATGCTGATCTY
12184 T	C	A	TACAAGATCAGCATTGTTAATGCGTCATTTTGTTAATGACAGTCATTAGGCTGCTGTATTTTCGTTCCAGTC
12184 T	T	A	TACAAGATCAGCATTGTTAATGCATCATTTTGTTAATGACAGTCATTAGGCTGCTGTATTTTCGTTCCAGTC
12184 IS	[CT]		ATTGGACATGGTGACTGGAACGAAAATACAGCAGCCTAATGACTGTCATTAACAAAATGA[CT]GCATTAACAATGCTGATCTTGTAGCTGATACAGAACCTTG GCTGTTGCCTTCATATTTTC
12185 I		S	GCAGACACATATAGTAAGCTGTTTGGGATGGGATGTATGATCCC
12185 P	C	S	ATGACGTGGCAGACGCACCTGCTGCATACY
12185 P	A	S	CGCGCCGAGGTCACCTGCTGCATACCY
12185 T	C	S	CCTGGGTATGCAGCAGGTGCGGATCATACATCCCATCCCAAACAGCTTACTATATGTGTCTGCGC
12185 T	A	S	CCTGGGTATGCAGCAGGTGAGGATCATACATCCCATCCCAAACAGCTTACTATATGTGTCTGCGC
12185 IS	[CA]		ACATGAATAGTCCAAGTTCTTTCTCTTTTGCCATCTGCAGCCCTGGGTATGCAGCAGGTG[CA]GGATCATACATCCCATCCCAAACAGCTTACTATATGTGTC TGCGCTTCAGCTTACAGAGG
12197 I		A	CCAGAAAGAAAAGAAGCATAAAGAAAGGCTCCATTTACACT
12197 P	A	A	CGCGCCGAGGAATGTGGAAGAAATCAACTTTACY
12197 P	G	A	ATGACGTGGCAGACGATGTGGAAGAAATCAACTTTACY
12197 T	A	A	TAAGGTAAAGTTGATTTCTTCCACATTGTGTAAATGGAGCCTTTCTTTATGCTTCTTTTCTTTCTGGTA
12197 T	G	A	TAAGGTAAAGTTGATTTCTTCCACATCGTGTAAATGGAGCCTTTCTTTATGCTTCTTTTCTTTCTGGTA
12197 IS	[AG]		TACGTAGGTTTTTAGATGTACCAGAAAGAAAAGAAGCATAAAGAAAGGCTCCATTTACAC[AG]ATGTGGAAGAAATCAACTTTACCTTATTCTCTGGAAGATAA GTGGGGATCACCAAAGCAT
12198 I		S	TGCTGAGCTGGGCCTGGAGTGACCT
12198 P	C	S	ATGACGTGGCAGACGTTGAAGGACATGGCTCY
12198 P	T	S	CGCGCCGAGGATTGAAGGACATGGCTCTY
12198 T	C	S	TACCAGAGCCATGTCCTTCAACGGTCACTCCAGGCCCAGCTCAGCAGA
12198 T	T	S	TACCAGAGCCATGTCCTTCAATGGTCACTCCAGGCCCAGCTCAGCAGA
12198 IS	[CT]		AAGGATACACCAAAGTTCCTGTGCCAGGCTACACAAAGGTACCAGAGCCATGTCCTTCAA[CT]GGTCACTCCAGGCCCAGCTCAGCAGAAGACCAAGCAGA AGTAATTTGGTGCACAGACAAG
12214 I		S	GCTGCAGGACAAGGTCACGTTCTCTCCTGA
12214 P	G	S	ATGACGTGGCAGACCGCGAACCGTGGGY
12214 P	A	S	CGCGCCGAGGTGCGAACCGTGGGY
12214 T	G	S	GGGCCCCACGGTTCGCGCAGGAGAGAACGTGACCTTGTCCTGCAGCTC
12214 T	A	S	GGGCCCCACGGTTCGCACAGGAGAGAACGTGACCTTGTCCTGCAGCTC
12214 IS	[GA]		CTCCTTCCAGGTCTATATGAGAAACCTTCGCTTACAGCCCGGCCGGGCCCCACGGTTCGC[GA]CAGGAGAGAACGTGACCTTGTCCTGCAGCTCCCAGAG CTCCTTTGACATCTACCATCTAT
12266 I		A	GAACCTGCAGAAGTTGGATGGGCCCACT
12266 P	G	A	ATGACGTGGCAGACGGAGCAGTGCCCGY
12266 P	A	A	CGCGCCGAGGAGAGCAGTGCCCGY
12266 T	G	A	GGTCCGGGCACTGCTCCGTGGGCCCATCCAACTTCTGCAGGTTCCC
12266 T	A	A	GGTCCGGGCACTGCTCTGTGGGCCCATCCAACTTCTGCAGGTTCCC
12266 IS	[GA]		GGCAGACGCCAGGCTGACCCCGCTCCAGTTTGGGAACCTGCAGAAGTTGGATGGGCCCAC[GA]GAGCAGTGCCCGGACCCGCTGCCCTTGCCGGCCGGC AACTGCACGGACGAGGTGAGTCCC
12290 I		S	GAAGCATGCACTCCAGGCCAGCCTC
12290 P	A	S	CGCGCCGAGGTGAGTTCCCTCCCAACY
12290 P	C	S	ATGACGTGGCAGACGGAGTTCCCTCCCAAY
12290 T	A	S	TAAGGTTGGGAGGGAACTCAAGGCTGGCCTGGAGTGCATGCTTCTG
12290 T	C	S	TAAGGTTGGGAGGGAACTCCAGGCTGGCCTGGAGTGCATGCTTCTG
12290 IS	[AC]		GAGTGAGTGCGGGGCCATCTCCAGGAATCTGGGGCTGTGGCTAAGGTTGGGAGGGAACTC[AC]AGGCTGGCCTGGAGTGCATGCTTCTGGGGAACGCCT TTCTTTGCCCCTGTTGGCCATGTC
12315 I		S	CGGATGTCAGTGGAAACAAGACCCTGGTTCTCATCT
12315 P	C	S	ATGACGTGGCAGACGTGCTGTTTCCAACGTY
12315 P	T	S	CGCGCCGAGGATGCTGTTTCCAACGTGY
12315 T	C	S	GTCTCACGTTGGAAACAGCACGATGAGAACCAGGGTCTTGTTTCCACTGACATCCGTG
12315 T	T	S	GTCTCACGTTGGAAACAGCATGATGAGAACCAGGGTCTTGTTTCCACTGACATCCGTG
12315 IS	[CT]		TTAGATAGCCGGCGCGCAGGCGCTTTCTAGGTGATTTTACGTCTCACGTTGGAAACAGCA[CT]GATGAGAACCAGGGTCTTGTTTCCACTGACATCCGTGTT CCCAAACTCCCAGGATGTGCT
12330 I		A	TGGCTGGTCAGCTCGAGTGCTTTATTTTTATTTCTTATTCTCAATCAT
12330 P	A	A	CGCGCCGAGGACAATTGTACTGCTTTTATTAGCY
12330 P	G	A	ATGACGTGGCAGACGCAATTGTACTGCTTTTATTAGCY
12330 T	A	A	GATTGCTAATAAAAGCAGTACAATTGTTGATTGAGAATAAGAAATAAAAATAAAGCACTCGAGCTGACCAGCCACT
12330 T	G	A	GATTGCTAATAAAAGCAGTACAATTGCTGATTGAGAATAAGAAATAAAAATAAAGCACTCGAGCTGACCAGCCACT
12330 IS	[AG]		GGGCCTGGCACAGTGGCTGGTCAGCTCGAGTGCTTTATTTTTATTTCTTATTCTCAATCA[AG]CAATTGTACTGCTTTTATTAGCAATCAGTGCTCTGACAGG AGTGCTGACGGCAAGAGACT
12357 I		A	CGTTCCCAGAAGCTGTCGGCCCAACT
12357 P	C	A	CGCGCCGAGGCTCACGGCTGACATCY
12357 P	G	A	ATGACGTGGCAGACGTCACGGCTGACATCY
12357 T	C	A	GATGGATGTCAGCCGTGAGGTTGGGCCGACAGCTTCTGGGAACGAT
12357 T	G	A	GATGGATGTCAGCCGTGACGTTGGGCCGACAGCTTCTGGGAACGAT
12357 IS	[CG]		GGGTCCCCCGCCTGGGTCCGAGCGAGCTGGGAAATCGTTCCCAGAAGCTGTCGGCCCAAC[CG]TCACGGCTGACATCCATCATGTTTCTAAAAATTAGAAA CAAGGAGGCAAAACCTTTCAGT
12363 I		A	CACACAGAGCCCCAGTCCCCCATACATTA
12363 P	C	A	ATGACGTGGCAGACCGGTCTCCTCTTCCCY
12363 P	T	A	CGCGCCGAGGTGGTCTCCTCTTCCCY
12363 T	C	A	TGGGGGGAAGAGGAGACCGAATGTATGGGGGACTGGGGCTCTGTGTGCC
12363 T	T	A	TGGGGGGAAGAGGAGACCAAATGTATGGGGGACTGGGGCTCTGTGTGCC
12363 IS	[CT]		TTGGCACCTCTTAAGGGACTGGTGTCCTGGGGCACACAGAGCCCCAGTCCCCCATACATT[CT]GGTCTCCTCTTCCCCCCACCTGGGGCAAGAGGGCTTCT CTGCAATGGCCTTGTCTTGTCC
12364 I		S	CACCCAGAGACCCCCTCTCTCCGCC
12364 P	C	S	ATGACGTGGCAGACGTGGCCTCAATCACTCY
12364 P	A	S	CGCGCCGAGGTTGGCCTCAATCACTCCY
12364 T	C	S	GCGTGGAGTGATTGAGGCCACGCGGAGAGAGGGGGTCTCTGGGTGGC
12364 T	A	S	GCGTGGAGTGATTGAGGCCAAGCGGAGAGAGGGGGTCTCTGGGTGGC
12364 IS	[CA]		TTTCTCGGTCACGTGCTGGCCCCCGGCGGCCCAAAGGTCAGCGTGGAGTGATTGAGGCCA[CA]GCGGAGAGAGGGGGTCTCTGGGTGGCAGGCAGCGA GAGGCGCGGGGGAGGCCGCCCCGCG
12366 I		S	TGAGGGGCCCCTGAATGAGCATCCCA
12366 P	G	S	ATGACGTGGCAGACCCAAAGACATGCTTGCTY
12366 P	A	S	CGCGCCGAGGTCAAAGACATGCTTGCTTY
12366 T	G	S	AGCCAAGCAAGCATGTCTTTGGGGGATGCTCATTCAGGGGCCCCTCAAA
12366 T	A	S	AGCCAAGCAAGCATGTCTTTGAGGGATGCTCATTCAGGGGCCCCTCAAA
12366 IS	[GA]		CAGGCTGAGGACAGGTTTCAGTGTGGCCAGAGAGGAAGCAGCCAAGCAAGCATGTCTTTG[GA]GGGATGCTCATTCAGGGGCCCCTCAAAAGAAGCTTCT CAAGGGATCACAACGGGCATCAG
12369 I		S	CTTTTTGCAGTGCCCAGATTGTACCTGTCTTCTGTCT
12369 P	T	S	CGCGCCGAGGAAGAGCAGCCCCTTTY
12369 P	C	S	ATGACGTGGCAGACGAGAGCAGCCCCTTTY
12369 T	T	S	CAGAAAAGGGGCTGCTCTTGACAGAAGACAGGTACAATCTGGGCACTGCAAAAAGCT
12369 T	C	S	CAGAAAAGGGGCTGCTCTCGACAGAAGACAGGTACAATCTGGGCACTGCAAAAAGCT
12369 IS	[TC]		AAGCTTCTCCTGATTAGCTGATCACTTAGGTGGCCATGATGCCAGAAAAGGGGCTGCTCT[TC]GACAGAAGACAGGTACAATCTGGGCACTGCAAAAAGCTA GCACCACTGGAAGCAACCTTG
12382 I		S	CCGGCACCCCTGTGAGTGCTTGCT
12382 P	C	S	ATGACGTGGCAGACGCCGGGGCTGGY

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FIGURE 129E

12382 P	T	S	CGCGCCGAGGACCGGGGCTGGAY		
12382 T	C	S	GCCATCCAGCCCCGGCGCAAGCACTCACAGGGGTGCCGGGC		
12382 T	T	S	GCCATCCAGCCCCGGTGCAAGCACTCACAGGGGTGCCGGGC		
12382 IS	[CT]		CTGAGATTCAGGCAGGTGTCCACAGAGGCGTGAGCGGCTCTCACAGCCATCCAGCCCCGG[CT]GCAAGCACTCACAGGGGTGCCGGGCCTTCACTCCCT GATGTTTAGACACACTAACTGCTT		
12383 I		A	GGGCTTGCGTCTCCTGTTACAGGCTATGGT		
12383 P	G	A	ATGACGTGGCAGACGTCTGCATTTTACCCACAY		
12383 P	A	A	CGCGCCGAGGATCTGCATTTTACCCACAGY		
12383 T	G	A	GTACCTGTGGGTAAAATGCAGACCCATAGCCTGTAACAGGAGACGCAAGCCCAT		
12383 T	A	A	GTACCTGTGGGTAAAATGCAGATCCATAGCCTGTAACAGGAGACGCAAGCCCAT		
12383 IS	[GA]		GACTAAAGAACTGCAGGGACATGGGTGCAATGGGCTTGCGTCTCCTGTTACAGGCTATGG[GA]TCTGCATTTTACCCACAGGTACACTTTGATCCCCACCTC CATACTGCTGGGACTCGGGGC		
12387 I		A	CAGAACACGAATAGGATTTTCCACCTCCCAAAGTGTCTTAAATA		
12387 P	C	A	ATGACGTGGCAGACCGAGTCTAGGGACATGTY		
12387 P	T	A	CGCGCCGAGGTGAGTCTAGGGACATGTGY		
12387 T	C	A	TAGGCACATGTCCCTAGACTCGATTTAAGACACTTTGGGAGGTGGAAAATCCTATTCGTGTTCTGCA		
12387 T	T	A	TAGGCACATGTCCCTAGACTCAATTTAAGACACTTTGGGAGGTGGAAAATCCTATTCGTGTTCTGCA		
12387 IS	[CT]		TCTTCCCTGAATCTTTGCAGAACACGAATAGGATTTTCCACCTCCCAAAGTGTCTTAAAT[CT]GAGTCTAGGGACATGTGCCTAGACTCGATCTAAATCTATT TTGAGACACTGGGTCTTTCC		
12398 I		A	GGTTAGTCCAGCTAGAAAGTCCTCCTCTGAAAAACAAGCAT		
12398 P	G	A	ATGACGTGGCAGACGCCTCATGTCCTGGCY		
12398 P	A	A	CGCGCCGAGGACCTCATGTCCTGGCY		
12398 T	G	A	CAAGGCCAGGACATGAGGCTGCTTGTTTTTCAGAGGAGGACTTTCTAGCTGGACTAACCAG		
12398 T	A	A	CAAGGCCAGGACATGAGGTTGCTTGTTTTTCAGAGGAGGACTTTCTAGCTGGACTAACCAG		
12398 IS	[GA]		CTGCAGAAACCCGAAGGTCTGGTTAGTCCAGCTAGAAAGTCCTCCTCTGAAAAACAAGCA[GA]CCTCATGTCCTGGCCTTGTTGGCATCTTCCCAGGTCAGA CGCCCATCTGGCATCCCCTCT		
12402 I		S	GCAGATACTGACCTTACTTTCATTTCCCCTCTGGTCACA		
12402 P	A	S	CGCGCCGAGGTAGACCCCTGGGGCY		
12402 P	G	S	ATGACGTGGCAGACCAGACCCCTGGGGY		
12402 T	A	S	GAAAGCCCCAGGGGTCTAGTGACCAGAGGGGAAATGAAAGTAAGGTCAGTATCTGCCT		
12402 T	G	S	GAAAGCCCCAGGGGTCTGGTGACCAGAGGGGAAATGAAAGTAAGGTCAGTATCTGCCT		
12402 IS	[AG]		CCTAGCCTGCCCTGAATGTGATTCTCTCATCAATGTCATTGGTGAAAGCCCCAGGGGTCT[AG]GTGACCAGAGGGGAAATGAAAGTAAGGTCAGTATCTGC CTAACCCAATACCCTGATGCGG		
12428 I		S	GGACAGGATATAGCTCTGTGCCATCGTAGGCTGA		
12428 P	G	S	ATGACGTGGCAGACCACTGTCACCATCCCAY		
12428 P	A	S	CGCGCCGAGGTACTGTCACCATCCCAGY		
12428 T	G	S	CAGTCTGGGATGGTGACAGTGCAGCCTACGATGGCACAGAGCTATATCCTGTCCTT		
12428 T	A	S	CAGTCTGGGATGGTGACAGTACAGCCTACGATGGCACAGAGCTATATCCTGTCCTT		
12428 IS	[GA]		TAATTTCTGTAAGGACACTCCCATCTGACCTACAGTCAGTCAGTCTGGGATGGTGACAGT[GA]CAGCCTACGATGGCACAGAGCTATATCCTGTCCTTTTTT TTTCTCATATGAACAATTGGA		
12452 I		A	AGGCCTTTTTGAAGGACCTAATTATCCCAAACCTGGTCA		
12452 P	C	A	ATGACGTGGCAGACCGGTCGGTACCTTGATY		
12452 P	T	A	CGCGCCGAGGTGGTCGGTACCTTGATTY		
12452 T	C	A	GGTCAATCAAGGTACCGACCGGACCAGGTTTGGGATAATTAGGTCCTTCAAAAAGGCCTCC		
12452 T	T	A	GGTCAATCAAGGTACCGACCAGACCAGGTTTGGGATAATTAGGTCCTTCAAAAAGGCCTCC		
12452 IS	[CT]		GTTTTATCCATGTCCTTCTTGGAGGCCTTTTTGAAGGACCTAATTATCCCAAACCTGGTC[CT]GGTCGGTACCTTGATTGACCCGCTAAAACCTAAGTCTTGT TAAAAGCATCTGACAGCCGC		
12457 I		S	CTTCACCACCCCCACGTGACGCCA		
12457 P	G	S	ATGACGTGGCAGACCTGCCCTTTGCTTGTGY		
12457 P	A	S	CGCGCCGAGGTTGCCCTTTGCTTGTGY		
12457 T	G	S	GAGACACAAGCAAAGGGCAGGGCGTCACGTGGGGGTGGTGAAGGC		
12457 T	A	S	GAGACACAAGCAAAGGGCAAGGCGTCACGTGGGGGTGGTGAAGGC		
12457 IS	[GA]		CTTACTTCCAATGAGTGGAGTCAGGGCTGTTATCAAACCCAGAGACACAAGCAAAGGGCA[GA]GGCGTCACGTGGGGGTGGTGAAGGCTTCTCTGGGGAC CCTTCAAGCCTGGCTGCCATGAG		
12465 I		A	CCTGGTTTGTATCCTGGACCCCCTGCCA		
12465 P	C	A	ATGACGTGGCAGACCGGACTGTGTGGCGY		
12465 P	T	A	CGCGCCGAGGTGGACTGTGTGGCGY		
12465 T	C	A	GCTTCGCCACACAGTCCGGGCAGGGGGTCCAGGATACAAACCAGGTG		
12465 T	T	A	GCTTCGCCACACAGTCCAGGCAGGGGGTCCAGGATACAAACCAGGTG		
12465 IS	[CT]		ACCAGCTGCCTGCTTACAAGTGTTTCCAGATCACCTGGTTTGTATCCTGGACCCCCTGCC[CT]GGACTGTGTGGCGAAGCTGGCCGAATTCCTGTCTGAGC ACCCCAATGTCACCCTGACCAT		
12472 I		S	GGGCATGAGCTCTCCATTTGCCACAATCCAA		
12472 P	G	S	ATGACGTGGCAGACCACCCCTCCCTGGY		
12472 P	A	S	CGCGCCGAGGTACCCCTCCCTGGAGY		
12472 T	G	S	GAGGCTCCAGGGAGGGGTGTGGATTGTGGCAAATGGAGAGCTCATGCCCTA		
12472 T	A	S	GAGGCTCCAGGGAGGGGTATGGATTGTGGCAAATGGAGAGCTCATGCCCTA		
12472 IS	[GA]		GCCCACTTTGGGTACATAAATGAGTGGAGTCAGGCTGGGTATGAGGCTCCAGGGAGGGGT[GA]TGGATTGTGGCAAATGGAGAGCTCATGCCCTATCTGA ACTGGACAACTGCTGCTTGGTCC		
12492 I		S	AGACTCTGTCTGAATGAGGATTTCAATCTCAAGTCTAGGATGTGATTTCT		
12492 P	T	S	CGCGCCGAGGATCTGGTAAATGTCTTATGGAAY		
12492 P	C	S	ATGACGTGGCAGACGTCTGGTAAATGTCTTATGGAY		
12492 T	T	S	AGCCTTCCATAAGACATTTACCAGATGAAATCACATCCTAGACTTGAGATTGAAATCCTCATTCAGACAGAGTCTTC		
12492 T	C	S	AGCCTTCCATAAGACATTTACCAGACGAAATCACATCCTAGACTTGAGATTGAAATCCTCATTCAGACAGAGTCTTC		
12492 IS	[TC]		TCCCAACTCAGCAGTACCTCATTAGGCTGCTCCTCAGCCTTCCATAAGACATTTACCAGA[TC]GAAATCACATCCTAGACTTGAGATTGAAATCCTCATTCAG ACAGAGTCTTCAGCAATGAG		
12494 I		S	CCTCTCCAGATTCCTGTGAGCCCCTCCTA		
12494 P	A	S	CGCGCCGAGGTCTCCTCCACTTTACTGAGY		
12494 P	G	S	ATGACGTGGCAGACCCTCCTCCACTTTACTGAY		
12494 T	A	S	AAGACTCAGTAAAGTGGAGGAGAAGGAGGGGCTCACAGGAATCTGGAGAGGAG		
12494 T	G	S	AAGACTCAGTAAAGTGGAGGAGGAGGAGGGGCTCACAGGAATCTGGAGAGGAG		
12494 IS	[AG]		TCAAAAGTACTCTGAGTTCTCTCAGGGGAACTCTGGAAAAGACTCAGTAAAGTGGAGGAG[AG]AGGAGGGGCTCACAGGAATCTGGAGAGGAGACTGTGCA AAACCCTCAAAAGTTCTCTGAG	MAGEC1	
12497 I		S	GTATTTTCCAGAGTTCCCCTGAGAGAACTCAGAGC		
12497 P	T	S	CGCGCCGAGGAACTTTTGAGGGTTTTGCAY		
12497 P	A	S	ATGACGTGGCAGACTACTTTTGAGGGTTTTGCAY		
12497 T	T	S	ACTGTGCAAAACCCTCAAAAGTTCTCTGAGTTCTCTCAGGGGAACTCTGGAAAATACTC		
12497 T	A	S	ACTGTGCAAAACCCTCAAAAGTACTCTGAGTTCTCTCAGGGGAACTCTGGAAAATACTC		
12497 IS	[TA]		GGAGGAGGAGGAGGGGCTCACAGGAATCTGGAGAGGAGACTGTGCAAAACCCTCAAAAGT[TA]CTCTGAGTTCTCTCAGGGGAACTCTGGAAAATACTCAA TAAAGTGGAGGAGAAGGAGCGG	MAGEC1	
12546 I		S	CGATTAGAATCCCAAGTCCCTGCCTGTTGGAATTCA		
12546 P	A	S	CGCGCCGAGGTTTAGAAATTTCATTTCTCAAATTTCTTY		
12546 P	G	S	ATGACGTGGCAGACCTTAGAAATTTCATTTCTCAAATTTCTY		
12546 T	A	S	ATCCAAGAAATTTGAGAAATGAAATTTCTAAAGAATTCCAACAGGCAGGGACTTGGGATTCTAATCGGG		
12546 T	G	S	ATCCAAGAAATTTGAGAAATGAAATTTCTAAGGAATTCCAACAGGCAGGGACTTGGGATTCTAATCGGG		
12546 IS	[AG]		ATCAGGCTGTGCTCTAATCTTGATGCCCAATCCAAGAAATTTGAGAAATGAAATTTCTAA[AG]GAATTCCAACAGGCAGGGACTTGGGATTCTAATCGGGAGT GTTGGTATTATGCAATAGAA		
12601 I		A	GCTGGCAAGCCCAGTTACCTGTCTCCAA		
12601 P	C	A	ATGACGTGGCAGACCCGTGAAGATGAGGATCTY		
12601 P	T	A	CGCGCCGAGGTCGTGAAGATGAGGATCTY		

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FIGURE 129E

12601	T	C	A	GAGGAGATCCTCATCTTCACGGTGGAGACAGGTAACTGGGCTTGCCAGCAC
12601	T	T	A	GAGGAGATCCTCATCTTCACGATGGAGACAGGTAACTGGGCTTGCCAGCAC
12601	IS	[CT]		ACAGGTCCCTCCAGCTGCAGACGAGAAGAGGGTGCTGGCAAGCCCAGTTACCTGTCTCCA[CT]CGTGAAGATGAGGATCTCCTCACAGTCCAGGGCTCTG CTCAGCTCCAGCGTGAGGCTGAA
12602	I		A	GGCAGGATATCAAAACGGACCCGGGACCT
12602	P	G	A	ATGACGTGGCAGACGCTCCTTGGGCCCY
12602	P	C	A	CGCGCCGAGGCCTCCTTGGGCCCY
12602	T	G	A	CCTAGGGCCCAAGGAGCGGTCCCGGGTCCGTTTTGATATCCTGCCCT
12602	T	C	A	CCTAGGGCCCAAGGAGGGGTCCCGGGTCCGTTTTGATATCCTGCCCT
12602	IS	[GC]		CGGCGAGCAGTTGCTTGGTGCCACTCCGGGAGGGCAGGATATCAAAACGGACCCGGGACC[GC]CTCCTTGGGCCCTAGGGTCGGCACGCTGATGGGGAG GGCACAGATCAGTGTTGATACGAG
12662	I		S	CATCTCTGAAGACGGAATGTGGAATTTAATTGATAAAGCGGCTT
12662	P	C	S	ATGACGTGGCAGACGTCAGCAGCAATGAGATY
12662	P	G	S	CGCGCCGAGGCTCAGCAGCAATGAGATGY
12662	T	C	S	AGTGCATCTCATTGCTGCTGACAGCCGCTTTATCAATTAAATTCCACATTCCGTCTTCAGAGATGCC
12662	T	G	S	AGTGCATCTCATTGCTGCTGAGAGCCGCTTTATCAATTAAATTCCACATTCCGTCTTCAGAGATGCC
12662	IS	[CG]		ACAGCTCCAAAGAGGATCCCTCAAATGCATATTCTATTGAGTGCATCTCATTGCTGCTGA[CG]AGCCGCTTTATCAATTAAATTCCACATTCCGTCTTCAGAG ATGCCATGAACCTCCCTACC
12674	I		S	GAAACTGAGACTCAGGAGCCTGCTCTGTTGCA
12674	P	G	S	ATGACGTGGCAGACCGTCTCTAGGAGATGCCY
12674	P	A	S	CGCGCCGAGGTGTCTCTAGGAGATGCCY
12674	T	G	S	CTCAGGCATCTCCTAGAGACGGCAACAGAGCAGGCTCCTGAGTCTCAGTTTCTC
12674	T	A	S	CTCAGGCATCTCCTAGAGACAGCAACAGAGCAGGCTCCTGAGTCTCAGTTTCTC
12674	IS	[GA]		CCAGACACACAGCATACCAATGATGGAACCCACAGAGGAGCTCAGGCATCTCCTAGAGAC[GA]GCAACAGAGCAGGCTCCTGAGTCTCAGTTTCTCCATCC CATGATGGGGACGCCCAATTCA
12750	I		A	GTCTATGGATGTAGCCTCCAAAACCATGAATTCAATGACAATACTACAATTA
12750	P	C	A	ATGACGTGGCAGACCTTAAAATTTTCATTTTGATGACAAACY
12750	P	T	A	CGCGCCGAGGTTTAAAATTTTCATTTTGATGACAAACY
12750	T	C	A	TTTAGTTTGTCATCAAAATGAAAATTTTAAGAATTGTAGTATTGTCATTGAATTCATGGTTTTGGAGGCTACATCCATAGACCC
12750	T	T	A	TTTAGTTTGTCATCAAAATGAAAATTTTAAAAATTGTAGTATTGTCATTGAATTCATGGTTTTGGAGGCTACATCCATAGACCC
12750	IS	[CT]		CTCCTGTGGGTCTATGGATGTAGCCTCCAAAACCATGAATTCAATGACAATACTACAATT[CT]TTAAAATTTTCATTTTGATGACAAACTAAAATAAATTAATAC AGATATATTCAGGGTGAC
12756	I		A	GGCTGCCCAGCCTGTCCTTGTGTCT
12756	P	A	A	CGCGCCGAGGATCTTTTTAACTTTTCCTTAGATGGY
12756	P	G	A	ATGACGTGGCAGACGTCTTTTTAACTTTTCCTTAGATGGY
12756	T	A	A	CAGACCATCTAAGGAAAAGTTAAAAAGATGACACAAGGACAGGCTGGGCAGCCTG
12756	T	G	A	CAGACCATCTAAGGAAAAGTTAAAAAGACGACACAAGGACAGGCTGGGCAGCCTG
12756	IS	[AG]		ACTCAAAACAGGTCACCAGTCAGGAGCCCTGACCCAGGCTGCCCAGCCTGTCCTTGTGTC[AG]TCTTTTTAACTTTTCCTTAGATGGTCTGTCTTTTTTTGTG ATTTCTGTATAGACTCTGTA
12788	I		S	AGAGGAGGCGTCTCTGAGGGTGGGTC
12788	P	A	S	CGCGCCGAGGTAAGTGGCAGAAAAGTAGAAAY
12788	P	C	S	ATGACGTGGCAGACGAAGTGGCAGAAAAGTAGAAY
12788	T	A	S	CCCCTTTCTACTTTTCTGCCACTTAACCCACCCTCAGAGACGCCTCCTCTAG
12788	T	C	S	CCCCTTTCTACTTTTCTGCCACTTCACCCACCCTCAGAGACGCCTCCTCTAG
12788	IS	[AC]		AGGGACAACTAAGGAACTATTTCTTTCCTTTTCCCTCCCCTTTCTACTTTTCTGCCACTT[AC]ACCCACCCTCAGAGACGCCTCCTCTAGTCAAGACTGAATT GTCTGAATAGGGGAAATCTG
12821	I		S	CCAGATTGCTCCCTTGGTGCCCGAGTCT
12821	P	C	S	ATGACGTGGCAGACGGAATGGATAGAATGATAGAGAATY
12821	P	T	S	CGCGCCGAGGAGAATGGATAGAATGATAGAGAATAAY
12821	T	C	S	GGTATTATTCTCTATCATTCTATCCATTCCGACTCGGGCACCAAGGGAGCAATCTGGAC
12821	T	T	S	GGTATTATTCTCTATCATTCTATCCATTCTGACTCGGGCACCAAGGGAGCAATCTGGAC
12821	IS	[CT]		AAGAAAACAAAGCAAGGTCGTAAGTCTTGAGGGTATTATTCTCTATCATTCTATCCATTC[CT]GACTCGGGCACCAAGGGAGCAATCTGGACCAGCTAGGCT TGGATCTCATTCAAAGCCTTA
12855	I		A	GCGTCCAGGAGGGCCAGGCCT
12855	P	A	A	CGCGCCGAGGAGCACAAGTTCGCAAGY
12855	P	G	A	ATGACGTGGCAGACGGCACAAGTTCGCAAY
12855	T	A	A	AAGGCTTGCGAACTTGTGCTGGCCTGGCCCTCCTGGACGCTC
12855	T	G	A	AAGGCTTGCGAACTTGTGCCGGCCTGGCCCTCCTGGACGCTC
12855	IS	[AG]		GCAACAATGGCACCGTCCACCTGGTCTGCAAGCTGGGCGAGCGTCCAGGAGGGCCAGGCC[AG]GCACAAGTTCGCAAGCCTTGTCCACAGCACCAGGTCT CTGCCATCCGAGCCGGAGGGCAC
12890	I		A	GGGCCCTGGCTGCCACTACCGA
12890	P	T	A	CGCGCCGAGGTACAGAGGCCGTGTCY
12890	P	C	A	ATGACGTGGCAGACCACAGAGGCCGTGTY
12890	T	T	A	GCGCGACACGGCCTCTGTACGGTAGTGGCAGCCAGGGCCCAC
12890	T	C	A	GCGCGACACGGCCTCTGTGCGGTAGTGGCAGCCAGGGCCCAC
12890	IS	[TC]		GTGGGTGAGGCCGAGCCTGCTGCGTGTGGAGCCTCGAGTGGGCCCTGGCTGCCACTACCG[TC]ACAGAGGCCGTGTCGCGCTGGGCTGGGCCTGGGTG GCCTCTGTCTTTGCATCTCTGAGAA
12970	I		A	AGTCCAGCGGGCTTTGTTGTCAGAATCCACT
12970	P	G	A	ATGACGTGGCAGACGAGGGCTCAAACCCTY
12970	P	A	A	CGCGCCGAGGAAGGGCTCAAACCCTY
12970	T	G	A	CACCAGGGTTTGAGCCCTCGTGGATTCTGACAACAAAGCCCGCTGGACTCC
12970	T	A	A	CACCAGGGTTTGAGCCCTTGTGGATTCTGACAACAAAGCCCGCTGGACTCC
12970	IS	[GA]		TCCAGGCTGTGGGCAGGGAGGGGTGGAAGGAGTCCAGCGGGCTTTGTTGTCAGAATCCAC[GA]AGGGCTCAAACCCTGGTGTCTACAGCAGTCACTCCCA GTGGCCAGCAGGACCACATCAGT
12984	I		S	AGCCTCAGCATCCTAGGAGCTGACCACAC
12984	P	A	S	CGCGCCGAGGTACTGATCATTAGGGCTGGY
12984	P	C	S	ATGACGTGGCAGACGACTGATCATTAGGGCTGY
12984	T	A	S	ATTTCCAGCCCTAATGATCAGTATGTGGTCAGCTCCTAGGATGCTGAGGCTTA
12984	T	C	S	ATTTCCAGCCCTAATGATCAGTCTGTGGTCAGCTCCTAGGATGCTGAGGCTTA
12984	IS	[AC]		GCCAGTTGTTTACTAAGAAACTGCAATTTACACCCATGATTTCCAGCCCTAATGATCAGT[AC]TGTGGTCAGCTCCTAGGATGCTGAGGCTTAGAAGCTAGC AGGCAACAAGGACTGACCCAC
12996	I		S	AGATCAGGTTGAAACTGAAGATGCTACACCACTGTGCT
12996	P	T	S	CGCGCCGAGGAGCCAGCTGTGGCY
12996	P	G	S	ATGACGTGGCAGACCGCCAGCTGTGGCY
12996	T	T	S	AAGAGCCACAGCTGGCTGCACAGTGGTGTAGCATCTTCAGTTTCAACCTGATCTCT
12996	T	G	S	AAGAGCCACAGCTGGCGGCACAGTGGTGTAGCATCTTCAGTTTCAACCTGATCTCT
12996	IS	[TG]		CAGCTCACTGGAATGAAGTTGAATTGAAGACTTTATGAATGAACAAGAGCCACAGCTGGC[TG]GCACAGTGGTGTAGCATCTTCAGTTTCAACCTGATCTCT GATCTGTGACCACTCTGTTTT
13002	I		S	CCTTTGGGCCTCGATCCCTCGCCT
13002	P	G	S	CGCGCCGAGGCCTCACCAGTCCCCY
13002	P	C	S	ATGACGTGGCAGACGCTCACCAGTCCCCY
13002	T	G	S	GAAGGGGGACTGGTGAGGGGCGAGGGATCGAGGCCCAAAGGGA
13002	T	C	S	GAAGGGGGACTGGTGAGCGGCGAGGGATCGAGGCCCAAAGGGA
13002	IS	[GC]		CCAGAAGGAGTAGGGGCCGGCTCCCTGCTAATACGGGCTCTCAGAAGGGGGACTGGTGAG[GC]GGCGAGGGATCGAGGCCCAAAGGGAGGTGGGTGGG ATGGAGCAGAAAACCCACCAGACTG
13059	I		A	TCCTGTGTGTTCCATGTCCGTGGGCATT
13059	P	G	A	ATGACGTGGCAGACGCTTGGCAATCTGTTGGY
13059	P	A	A	CGCGCCGAGGACTTGGCAATCTGTTGGY
13059	T	G	A	TATCCCAACAGATTGCCAAGCATGCCCACGGACATGGAACACACAGGACA

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FIGURE 129E

13059 T	A	A	TATCCCAACAGATTGCCAAGTATGCCCACGGACATGGAACACACAGGACA
13059 IS	[GA]		TGTTGTCATCAGAAAGGCAAGATGTAGGTAATGTCCTGTGTGTTCCATGTCCGTGGGCAT[GA]CTTGGCAATCTGTTGGGATAGCAATATAATTTGTTAGTTT GTGAAAGAATAATGGATCCT
13128 I		S	GGTCTGAAACAGACTAGGGAGCGGGGAAGAATTCT
13128 P	C	S	ATGACGTGGCAGACGTGTGAATGCAGGACGY
13128 P	T	S	CGCGCCGAGGATGTGAATGCAGGACGY
13128 T	C	S	CCCACGTCCTGCATTCACACGAATTCTTCCCCGCTCCCTAGTCTGTTTCAGACCAG
13128 T	T	S	CCCACGTCCTGCATTCACATGAATTCTTCCCCGCTCCCTAGTCTGTTTCAGACCAG
13128 IS	[CT]		TTAAAAGTACTCCACTGAACAGTGAAATATTTCCAGACTCACCCACGTCCTGCATTCACA[CT]GAATTCTTCCCCGCTCCCTAGTCTGTTTCAGACCAGAAGC CCTGGGCTTCTCTGACTAGC
13278 I		A	GGAGGTGTGACTGCGCCCTGCCT
13278 P	G	A	ATGACGTGGCAGACGTGGGGTCGGAGAGY
13278 P	A	A	CGCGCCGAGGATGGGGTCGGAGAGY
13278 T	G	A	CACCCTCTCCGACCCCACGGCAGGGCGCAGTCACACCTCCTG
13278 T	A	A	CACCCTCTCCGACCCCATGGCAGGGCGCAGTCACACCTCCTG
13278 IS	[GA]		AATACCTGTAGGGAGAGGGGGTAGCGTGGGCGCTCCCAGGAGGTGTGACTGCGCCCTGCC[GA]TGGGGTCGGAGAGGGTGCTCTGGAGCTTCTCGGGC ACAGGACTAGTTGACAGAGTCCAGC
13318 I		A	CTCATGGTCGCATCACCATGAAGCTTCCACTCT
13318 P	A	A	CGCGCCGAGGAGGCGGACAGCTCY
13318 P	G	A	ATGACGTGGCAGACGGGCGGACAGCTCY
13318 T	A	A	TCTAGAGCTGTCCGCCTGAGTGGAAGCTTCATGGTGATGCGACCATGAGTG
13318 T	G	A	TCTAGAGCTGTCCGCCCGAGTGGAAGCTTCATGGTGATGCGACCATGAGTG
13318 IS	[AG]		ACGAACAATCAGGAGATGGCTCCAGGCACTCATGGTCGCATCACCATGAAGCTTCCACTC[AG]GGCGGACAGCTCTAGACACTCACAGTCCGGCCAGGGA CAATCAGCGGGGCCCAGGACAAG
13320 I		A	CTCAGGCGGACAGCTCTAGACACTCACAGTCT
13320 P	C	A	ATGACGTGGCAGACCGGCCAGGGACAAY
13320 P	A	A	CGCGCCGAGGAGGCCAGGGACAATCY
13320 T	C	A	CGCTGATTGTCCCTGGCCGGACTGTGAGTGTCTAGAGCTGTCCGCCTGAGTG
13320 T	A	A	CGCTGATTGTCCCTGGCCTGACTGTGAGTGTCTAGAGCTGTCCGCCTGAGTG
13320 IS	[CA]		CTCATGGTCGCATCACCATGAAGCTTCCACTCAGGCGGACAGCTCTAGACACTCACAGTC[CA]GGCCAGGGACAATCAGCGGGGCCCAGGACAAGCAGGA ACCAGGGATCCAGTGTTAGCCAG
13355 I		S	GGGTACAGCCGGCCAGCAGAGGTA
13355 P	G	S	ATGACGTGGCAGACCGATTCTACAGGACTGACAY
13355 P	A	S	CGCGCCGAGGTGATTCTACAGGACTGACAY
13355 T	G	S	CTACTGTCAGTCCTGTAGAATCGACCTCTGCTGGCCGGCTGTACCCTG
13355 T	A	S	CTACTGTCAGTCCTGTAGAATCAACCTCTGCTGGCCGGCTGTACCCTG
13355 IS	[GA]		AGGACACATAGGACTCCACAGAGTCTGGCCTCACCTCCCTACTGTCAGTCCTGTAGAATC[GA]ACCTCTGCTGGCCGGCTGTACCCTGAGTACCCTCTCAC TTCCTCCTTCAGGTTTTCAGGG
13430 I		A	ACCTCCATCCCTCCGTCTTGCTCCTGTTC
13430 P	A	A	CGCGCCGAGGACTCTCTGCAGAGTGGY
13430 P	T	A	ATGACGTGGCAGACTCTCTCTGCAGAGTGGY
13430 T	A	A	GCTGCCACTCTGCAGAGAGTAACAGGAGCAAGACGGAGGGATGGAGGTGA
13430 T	T	A	GCTGCCACTCTGCAGAGAGAAACAGGAGCAAGACGGAGGGATGGAGGTGA
13430 IS	[AT]		CTTGGCTTCGGTTTTAGCATTCTGCTGTCATCACCTCCATCCCTCCGTCTTGCTCCTGTT[AT]CTCTCTGCAGAGTGGCAGCCAGCGGTGCAGATTCTCTTG TACTCCTTGATATTCCTGCTC
13551 I		S	ACGGGACAGGGGTTCTACAGCAGAAGGAA
13551 P	A	S	CGCGCCGAGGTAGGACTGACAGTGTGTGY
13551 P	G	S	ATGACGTGGCAGACCAGGACTGACAGTGTGTY
13551 T	A	S	CAGACACACACTGTCAGTCCTATCCTTCTGCTGTAGAACCCCTGTCCCGTCT
13551 T	G	S	CAGACACACACTGTCAGTCCTGTCCTTCTGCTGTAGAACCCCTGTCCCGTCT
13551 IS	[AG]		CAGTCTGTTGCTGGCTTCTGTTTGCAGTTGGCATGTGAGCAGACACACACTGTCAGTCCT[AG]TCCTTCTGCTGTAGAACCCCTGTCCCGTCTGACACACCC ACAGTCAGGCTTCTTAAAGAT
13725 I		A	CCAGCATAGCCGGGTCCAATAACCCTCCC
13725 P	T	A	CGCGCCGAGGTTCCCGCGTCCGY
13725 P	A	A	ATGACGTGGCAGACATCCCGCGTCCGY
13725 T	T	A	AGCGCGGACGCGGGAAGGAGGGTTATTGGACCCGGCTATGCTGGAC
13725 T	A	A	AGCGCGGACGCGGGATGGAGGGTTATTGGACCCGGCTATGCTGGAC
13725 IS	[TA]		GGGAAAACCTTTGGCCTCAAAGGTCCTTCTGTCCAGCATAGCCGGGTCCAATAACCCTCC[TA]TCCCGCGTCCGCGCTTACCCAATACAAGCCGGGCTACG TCCGAGGGTAACAACATGATCA
13746 I		S	CCTGCCCTGCCCAGAGAGAGGGGA
13746 P	G	S	ATGACGTGGCAGACCGGCCGGAGAGCY
13746 P	A	S	CGCGCCGAGGTGGCCGGAGAGCY
13746 T	G	S	AGGGGCTCTCCGGCCGCCCCTCTCTCTGGGCAGGGCAGGAT
13746 T	A	S	AGGGGCTCTCCGGCCACCCCTCTCTCTGGGCAGGGCAGGAT
13746 IS	[GA]		ACTCCACCTTTCACCTCTGCCTCTGTCCCCCAGGTGTGTCCTCACAGGGGCTCTCCGGCC[GA]CCCCTCTCTCTGGGCAGGGCAGGATGTCTCCGTTGGA GCCTCCTCCCACAGCTGATCCAT
13754 I		S	CGCGGTTGCCAGAGAAAGCCCCGT
13754 P	C	S	ATGACGTGGCAGACGACGTGACGGATTTGCY
13754 P	T	S	CGCGCCGAGGAACGTGACGGATTTGCY
13754 T	C	S	TCGCGCAAATCCGTCACGTCCGGGGCTTTCTCTGGCAACCGCGCG
13754 T	T	S	TCGCGCAAATCCGTCACGTTCGGGGCTTTCTCTGGCAACCGCGCG
13754 IS	[CT]		GGGAATGACGGATGGGAGGGGGAAGGGCGGGCTGCTTGGGGTCGCGCAAATCCGTCACGT[CT]CGGGGCTTTCTCTGGCAACCGCGCGAGCGTTCCCC GCAACACAGACCCAGGACAGGAGGG
13803 I		A	TGGTGAACAGACTGCAAATCTGTGTTATAGGGCCCATATTAT
13803 P	A	A	CGCGCCGAGGACATAGCACTGATTCAACATATY
13803 P	C	A	ATGACGTGGCAGACCCATAGCACTGATTCAACAY
13803 T	A	A	AGTTATATGTTGAATCAGTGCTATGTTAATATGGGCCCTATAACACAGATTTGCAGTCTGTTCACCACT
13803 T	C	A	AGTTATATGTTGAATCAGTGCTATGGTAATATGGGCCCTATAACACAGATTTGCAGTCTGTTCACCACT
13803 IS	[AC]		ACTATTCTTAGCTATTCAGTGGTGAACAGACTGCAAATCTGTGTTATAGGGCCCATATTA[AC]CATAGCACTGATTCAACATATAACTTACTAAGAGCATGTTT TAGCATTACTGTTAAGAAA
13807 I		S	GTTTTAAATTCTGATGCTTATTTAATTTCTTAACAGTAATGCTAAAACATGCTCTA
13807 P	A	S	CGCGCCGAGGTAGTAAGTTATATGTTGAATCAGTGY
13807 P	G	S	ATGACGTGGCAGACCAGTAAGTTATATGTTGAATCAGTGY
13807 T	A	S	ATAGCACTGATTCAACATATAACTTACTAAGAGCATGTTTTAGCATTACTGTTAAGAAATTAAATAAGCATCAGAATTTAAAACGA
13807 T	G	S	ATAGCACTGATTCAACATATAACTTACTGAGAGCATGTTTTAGCATTACTGTTAAGAAATTAAATAAGCATCAGAATTTAAAACGA
13807 IS	[AG]		CTGCAAATCTGTGTTATAGGGCCCATATTAACATAGCACTGATTCAACATATAACTTACT[AG]AGAGCATGTTTTAGCATTACTGTTAAGAAATTAAATAAGCA TCAGAATTTAAAACGATAA
13859 I		S	ACAGGAACTCCACTGTTAAAGTCAGTAGAATTATAGTAAATAATTCCAAAGC
13859 P	A	S	CGCGCCGAGGTTCATGAGAAATTAGTCACCATY
13859 P	C	S	ATGACGTGGCAGACGTCATGAGAAATTAGTCACCAY
13859 T	A	S	GTCCATGGTGACTAATTTCTCATGAACTTTGGAATTATTTACTATAATTCTACTGACTTTAACAGTGGAGTTCCTGTTA
13859 T	C	S	GTCCATGGTGACTAATTTCTCATGACCTTTGGAATTATTTACTATAATTCTACTGACTTTAACAGTGGAGTTCCTGTTA
13859 IS	[AC]		TTTTAAGAGTGGCTCTCAGGGGTGTTTGTGGTAGTGTCCATGGTGACTAATTTCTCATGA[AC]CTTTGGAATTATTTACTATAATTCTACTGACTTTAACAGTG GAGTTCCTGTTAAGTAAAA
13862 I		A	CGGGGAGAGGAGAGGAAGAGAAGGGGCT
13862 P	G	A	ATGACGTGGCAGACGGTGGGTGGAGGGY
13862 P	A	A	CGCGCCGAGGAGTGGGTGGAGGGY
13862 T	G	A	GGTGCCCTCCACCCACCGCCCCTTCTCTTCCTCTCCTCTCCCCGTC
13862 T	A	A	GGTGCCCTCCACCCACTGCCCCTTCTCTTCCTCTCCTCTCCCCGTC

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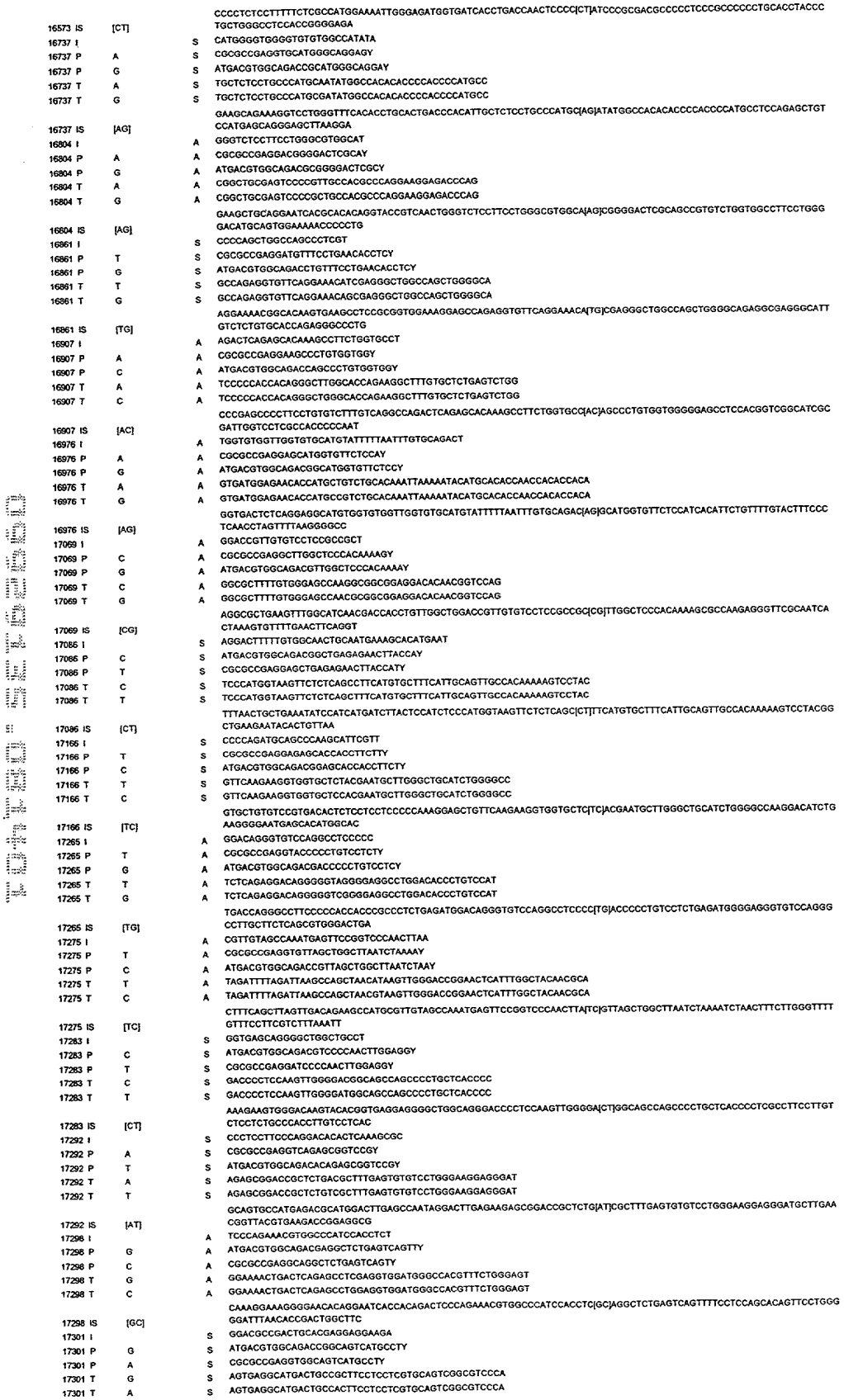
FIGURE 129E

				CTGACATTTTACTTTGCTCCTCTGCAACACTGACGGGGAGAGGAGAGGAAGAGAAGGGGC[GA]GTGGGTGGAGGGCACCTAGCATGGTGAGTTGGGATGA	
13862	IS	[GA]		GGAGAACTAAATACTTTTCTATA	
13887	I		A	AAGCCACGCCTCCCTGAACCTATCCCT	
13887	P	G	A	ATGACGTGGCAGACGGGACAGGGCCTCY	
13887	P	A	A	CGCGCCGAGGAGGACAGGGCCTCTY	
13887	T	G	A	AGGAAGAGGCCCTGTCCCGGGATAGGTTCAGGGAGGCGTGGCTTGT	
13887	T	A	A	AGGAAGAGGCCCTGTCCTGGGATAGGTTCAGGGAGGCGTGGCTTGT	
				GCCCAAAAAGGGACCCCCATGAAACCGAACACACAAGCCACGCCTCCCTGAACCTATCCC[GA]GGACAGGGCCTCTTCCTCGGCCTTCCCATATTGGTGGC	
13887	IS	[GA]		AGTGGTGCCACACTGAACAGAG	ICAM1
13999	I		S	CACGCCATCCCCACACACCCCAA	
13999	P	G	S	ATGACGTGGCAGACCTCCCTTGCTTCCCAY	
13999	P	A	S	CGCGCCGAGGTTCCCTTGCTTCCCAY	
13999	T	G	S	TGTGTGGGAAGCAAGGGAGTGGGGTGTGTGGGGATGGCGTGGG	
13999	T	A	S	TGTGTGGGAAGCAAGGGAATGGGGTGTGTGGGGATGGCGTGGG	
				GGCTAAAAACCTGAAGAAGATGGACGTAGGAGGACTGTCAGGTGTGTGGGAAGCAAGGGA[GA]TGGGGTGTGTGGGGATGGCGTGGGGTGGGTTCTCGT	
13999	IS	[GA]		TCTGACAGTTTCTGAGCCTCGAGG	
14006	I		A	GCATAGGAGTGAGGAGCTTGGGTCTCCCT	
14006	P	G	A	ATGACGTGGCAGACGCATCCACTGTATGGATGY	
14006	P	C	A	CGCGCCGAGGCCATCCACTGTATGGATGY	
14006	T	G	A	GGAACATCCATACAGTGGATGCGGGAGACCCAAGCTCCTCACTCCTATGCCA	
14006	T	C	A	GGAACATCCATACAGTGGATGGGGGAGACCCAAGCTCCTCACTCCTATGCCA	
				TCTCCCCAGGGGCAGGACGGCAGAGGATGATGGCATAGGAGTGAGGAGCTTGGGTCTCCC[GC]CATCCACTGTATGGATGTTCCAGGGGCTCCAGACTAG	
14006	IS	[GC]		ATAGGTACAAGGCCTACCTGTTT	
14007	I		A	TGAGGGGATTGAGTGCTGGAGGAAATATTTGGGGC	
14007	P	T	A	CGCGCCGAGGTCTAAATGTGCACTTAGGAGY	
14007	P	G	A	ATGACGTGGCAGACGCTAAATGTGCACTTAGGAY	
14007	T	T	A	CATTCTCCTAAGTGCACATTTAGACCCCAAATATTTCCTCCAGCACTCAATCCCCTCACC	
14007	T	G	A	CATTCTCCTAAGTGCACATTTAGCCCCCAAATATTTCCTCCAGCACTCAATCCCCTCACC	
				AGTAGCAGTTTAAGGAGGGGATCTGGTGAGGGGATTGAGTGCTGGAGGAAATATTTGGGG[TG]CTAAATGTGCACTTAGGAGAATGGGCTGAAAAAGAAAT	
14007	IS	[TG]		TAAAACTTTTTTACACTTTACT	
14020	I		A	CGCATACAGTTCCCCCGACACTCGCAA	
14020	P	C	A	ATGACGTGGCAGACCCCTGGAAGGCACCY	
14020	P	T	A	CGCGCCGAGGTCCTGGAAGGCACCY	
14020	T	C	A	GGCTGGTGCCTTCCAGGGTGCGAGTGTCGGGGGAACTGTATGCGGC	
14020	T	T	A	GGCTGGTGCCTTCCAGGATGCGAGTGTCGGGGGAACTGTATGCGGC	
				GAAGAGGGGAGACGGGCGCCGGGAGGGGGGCCGCCGCATACAGTTCCCCCGACACTCGCA[CT]CCTGGAAGGCACCAGCCCCTCACGACCAACCTGCCA	
14020	IS	[CT]		GACGCTGTGAGGAATCCCCGGGTC	
14034	I		S	CACATTGGGGGGGTCAGTCGTTTGGGC	
14034	P	A	S	CGCGCCGAGGTCTCAGGACACAATTCCCY	
14034	P	T	S	ATGACGTGGCAGACACTCAGGACACAATTCCCY	
14034	T	A	S	TGTGGGGAATTGTGTCCTGAGACCCAAACGACTGACCCCCCCAATGTGCT	
14034	T	T	S	TGTGGGGAATTGTGTCCTGAGTCCCAAACGACTGACCCCCCCAATGTGCT	
				GCTAGTCAGACGCCCAACAACCCCACACAATGACACTTATGTGGGGAATTGTGTCCTGAG[AT]CCCAAACGACTGACCCCCCCAATGTGCTGTGAATAAGCA	
14034	IS	[AT]		GTGACCACAACCAGTACCACC	
14037	I		S	ACATGGCCCTAATTTCCCACCCAGGTTTTTTGTTTTTTTTTTTTC	
14037	P	A	S	CGCGCCGAGGTTTTTTTTTTTTTTGGTATGTGTTGY	
14037	P	C	S	ATGACGTGGCAGACGTTTTTTTTTTTTTGGTATGTGTTGY	
14037	T	A	S	AAAACAACACATACCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACAAAAAACCTGGGTGGGAAATTAGGGCCATGTGG	
14037	T	C	S	AAAACAACACATACCAAAAAAAAAAAAAAACAAAAAAAAAAAAAAAAAAAAACAAAAAACCTGGGTGGGAAATTAGGGCCATGTGG	
				GTTCTTAGCTTTATTGCTAAGCGGAGAAAGAAAAACAACACATACCAAAAAAAAAAAAAA[AC]AAAAAAAAAAAAACAAAAAACCTGGGTGGGAAATTAGGGCC	
14037	IS	[AC]		ATGTGGCATGAAAAGGAAG	
14052	I		A	AGGGCCTCATGCGAGGCTGGCT	
14052	P	C	A	CGCGCCGAGGCTGGCGTGCACTCY	
14052	P	G	A	ATGACGTGGCAGACGTGGCGTGCACTCY	
14052	T	C	A	GCCCGAGTGCACGCCAGGCCAGCCTCGCATGAGGCCCTGC	
14052	T	G	A	GCCCGAGTGCACGCCACGCCAGCCTCGCATGAGGCCCTGC	
				TGCTTGCTAGAGATGTCCTGCTTCCCTTCACTGCGGGGCAGGGCCTCATGCGAGGCTGGC[CG]TGGCGTGCACTCGGGCCCAAGTGCTGGCTTGGGCTT	
14052	IS	[CG]		GTTTCCAGGCTTTTCCTGTCACAG	
14056	I		A	TCCCTGCAGCTGGCTGCCCCT	
14056	P	G	A	ATGACGTGGCAGACGGCTGCCGACCTCY	
14056	P	A	A	CGCGCCGAGGAGCTGCCGACCTCY	
14056	T	G	A	CACAGAGGTCGGCAGCCGGGGCAGCCAGCTGCAGGGATC	
14056	T	A	A	CACAGAGGTCGGCAGCTGGGGCAGCCAGCTGCAGGGATC	
				TCTCATGGGACCCTGCAGGCTCCTAGATAAGATTGCTGGATCCCTGCAGCTGGCTGCCCC[GA]GCTGCCGACCTCTGTGCACCTCAGGGCGGCCTGAGGT	
14056	IS	[GA]		CAGCGCTGGTCAGCAGGGCCCGG	
14102	I		A	GGAAACCAATCTTGGAACTTTCTGAGTCAATCAAGGTAGAAAACAACC	
14102	P	T	A	CGCGCCGAGGTTGTAGGAGGAAGGATTTTAAGY	
14102	P	A	A	ATGACGTGGCAGACATGTAGGAGGAAGGATTTTAAGY	
14102	T	T	A	GGACCTTAAAATCCTTCCTCCTACAAGTTGTTTTCTACCTTGATTGACTCAGAAAGTTCCAAGATTGGTTTCCAG	
14102	T	A	A	GGACCTTAAAATCCTTCCTCCTACATGTTGTTTTCTACCTTGATTGACTCAGAAAGTTCCAAGATTGGTTTCCAG	
				GGTTTAACTTACTGGAAACCAATCTTGGAACTTTCTGAGTCAATCAAGGTAGAAAACAAC[TA]TGTAGGAGGAAGGATTTTAAGGTCCAGACAAAGGTTGATT	
14102	IS	[TA]		GAGGGTGAGGCTGAAGGAAT	
14171	I		S	TGGCCTTTGAAGGCACCACAGGCCT	
14171	P	C	S	ATGACGTGGCAGACGCCCAGGCGAGGY	
14171	P	T	S	CGCGCCGAGGACCCAGGCGAGGTY	
14171	T	C	S	GGGCACCTCGCCTGGGCGGCCTGTGGTGCCTTCAAAGGCCAGC	
14171	T	T	S	GGGCACCTCGCCTGGGTGGCCTGTGGTGCCTTCAAAGGCCAGC	
				GTGGTAGCTGTGGGCACCTCACCTGGGTGTGCAGTGGCAGCTGTGGGCACCTCGCCTGGG[CT]GGCCTGTGGTGCCTTCAAAGGCCAGCGCCAGCCGCC	
14171	IS	[CT]		TGAGCCCTGGCACACTTCTCGCCA	
14208	I		A	GCCCTGTCTCAACTTTTCCATTTCTGCAGCTCAAAT	
14208	P	A	A	CGCGCCGAGGAATCCAGGCACAGGCY	
14208	P	C	A	ATGACGTGGCAGACCATCCAGGCACAGGCY	
14208	T	A	A	TCCAGCCTGTGCCTGGATTTTTGAGCTGCAGAAATGGAAAAGTTGAGACAGGGCAG	
14208	T	C	A	TCCAGCCTGTGCCTGGATGTTTGAGCTGCAGAAATGGAAAAGTTGAGACAGGGCAG	
				TCTTTCCCTTTTTTCTCCAGCTTCTGCCCTGTCTCAACTTTTCCATTTCTGCAGCTCAAA[AC]ATCCAGGCACAGGCTGGACCCTCAGAATTCTCCTTAGCGG	
14208	IS	[AC]		TTTGGGAGTCGGAGCAGGTG	
14255	I		S	CACCATCATCATCTCCGTCATGCCTATCATCATCATCT	
14255	P	G	S	CGCGCCGAGGCCCACCATCACTGTCAY	
14255	P	C	S	ATGACGTGGCAGACGCCACCATCACTGTCY	
14255	T	G	S	ATGATGACAGTGATGGTGGGGATGATGATGATGATAGGCATGACGGAGATGATGATGGTGGT	
14255	T	C	S	ATGATGACAGTGATGGTGGCGATGATGATGATGATAGGCATGACGGAGATGATGATGGTGGT	
				ATGATAGAGATGGTGGTAATGATAATATAGTGATGGTGGTGATGATGACAGTGATGGTGG[GC]GATGATGATGATGATAGGCATGACGGAGATGATGATGG	
14255	IS	[GC]		TGGTGATGATGGCAACTGTGGT	
14264	I		S	GCCAGCTTTCTCCCAGGGCAGCAAAT	
14264	P	G	S	ATGACGTGGCAGACCCGAGGACACTATCCCY	
14264	P	T	S	CGCGCCGAGGACGAGGACACTATCCCY	
14264	T	G	S	GGTGGGGATAGTGTCCTCGGTTTGCTGCCCTGGGAGAAAGCTGGCTT	
14264	T	T	S	GGTGGGGATAGTGTCCTCGTTTTGCTGCCCTGGGAGAAAGCTGGCTT	

FIGURE 129E


AACCCTCAGTTGTCCAAGGACTTAAACACAGAATTGAGCAGGGTGGGGATAGTGTCCTCG[GT]TTTGCTGCCCTGGGAGAAAGCTGGCTTAGCCAGTCATG
14264 IS [GT] AGAGGGCGGCACCATACCCAGG
14309 I S CCCAGCCTCAGGGTCGTGGTTCCAGT
14309 P T S CGCGCCGAGGATAGGGCAAGCTGAGGY
14309 P C S ATGACGTGGCAGACGTAGGGCAAGCTGAGGY
14309 T T S GCTTCCTCAGCTTGCCCTATCTGGAACCACGACCCTGAGGCTGGGGG
14309 T C S GCTTCCTCAGCTTGCCCTACCTGGAACCACGACCCTGAGGCTGGGGG
GGGTGCAGCGGGGCTGTCCTGGGCCCCCTGCCTCTGCAGGCGCTTCCTCAGCTTGCCCTA[TC]CTGGAACCACGACCCTGAGGCTGGGGGGATGGGGAC
14309 IS [TC] AGAATGCCTGGGTTGTGTCCTCTC
14323 I S GCAGACTGTGGACCCCAGGCCACAA
14323 P G S ATGACGTGGCAGACCCGTGCAGACACGY
14323 P A S CGCGCCGAGGTCGTGCAGACACGGY
14323 T G S CATCCCGTGTCTGCACGGTGTGGCCTGGGGTCCACAGTCTGCAC
14323 T A S CATCCCGTGTCTGCACGATGTGGCCTGGGGTCCACAGTCTGCAC
CCTGGCTGCAGAGATCAGCTCCGTCTCCCGAGATGAGGTAACACATCCCGTGTCTGCACG[GA]TGTGGCCTGGGGTCCACAGTCTGCACTGTCTGTGCGC
14323 IS [GA] TGTGGTTTATGCGCTGTGGCCTG
14327 I A TGGCCTTTCAGGACCCTCTGGGCAGC
14327 P G A ATGACGTGGCAGACGGAGTGCTGCGCTY
14327 P T A CGCGCCGAGGTGAGTGCTGCGCTY
14327 T G A CCAGAGCGCAGCACTCCCTGCCCAGAGGGTCCTGAAAGGCCACC
14327 T T A CCAGAGCGCAGCACTCACTGCCCAGAGGGTCCTGAAAGGCCACC
TGGGGCGGGCTGTCTCCTGCTGTAGGCCACGTGGGTGGCCTTTCAGGACCCTCTGGGCAG[GT]GAGTGCTGCGCTCTGGAGTGGGCGAGGCCCTATCCT
14327 IS [GT] GGCCAGTAAGACACCCTCACTGCC
14328 I S GGAGCAAAGCTGGAGGCGGAGCACA
14328 P A S CGCGCCGAGGTCGGCCCTCTCACY
14328 P G S ATGACGTGGCAGACCCGGCCCTCTCACY
14328 T A S CCTGGTGAGAGGGCCGAGTGCTCCGCCTCCAGCTTTGCTCCAG
14328 T G S CCTGGTGAGAGGGCCGGGTGCTCCGCCTCCAGCTTTGCTCCAG
CCTCGATCCCCCTCTGCATGTGAGGCTGTGGGGAGGCACCTCTGACCTGGTGAGAGGGCCG[AG]GTGCTCCGCCTCCAGCTTTGCTCCAGAGCAAGGCCC
14328 IS [AG] AATGGCAGGCTCCGTGCCCTGCTC
14353 I A GGGCGCACCAGACCAGGATCCCT
14353 P A A CGCGCCGAGGACTCCGGTCCCCTY
14353 P C A ATGACGTGGCAGACCCTCCGGTCCCCTY
14353 T A A AGGGAGGGGACCGGAGGGGATCCTGGTCTGGTGCGCCCTC
14353 T C A AGGGAGGGGACCGGAGGGGATCCTGGTCTGGTGCGCCCTC
GTCCAAACTTCCAGCCTGGACACCCCCTCAACCCCTGAGGGCGCACCAGACCAGGATCCC[AC]CTCCGGTCCCCTCCCTACCCTTGGCTATGGCGGAGGG
14353 IS [AC] CGCGGCGTCCCAGGCGGGCCGGT
15059 I S GTACTCACATCTCGAGTGATAATCTCAGGGTTGATGATGA
15059 P A S CGCGCCGAGGTCGAAGAGGCTCACGCY
15059 P G S CGCGCCGAGGCCGAAGAGGCTCACGY
15059 T A S AAAGGCGTGAGCCTCTTCGACATCATCAACCCTGAGATTATCACTCGAGATGTGAGTAC
15059 T G S AAAGGCGTGAGCCTCTTCGGCATCATCAACCCTGAGATTATCACTCGAGATGTGAGTAC
CGAGGTAGTGTTTACAGCCCTCATGAACAGCAAAGGCGTGAGCCTCTTCG[AG]CATCATCAACCCTGAGATTATCACTCGAGATGTGAGTAC
15059 IS [AG]
15060 I S GTACTCACATCTCGAGTGATAATCTCAGGGTTGATGATGA
15060 P A S CGCGCCGAGGTCGAAGAGGCTCACGCY
15060 P G S CGCGCCGAGGCCGAAGAGGCTCACGY
15060 T A S AAAGGCGTGAGCCTCTTCGACATCATCAACCCTGAGATTATCACTCGAGATGTGAGTAC
15060 T G S AAAGGCGTGAGCCTCTTCGGCATCATCAACCCTGAGATTATCACTCGAGATGTGAGTAC
CGAGGTAGTGTTTACAGCCCTCATGAACAGCAAAGGCGTGAGCCTCTTCG[AG]CATCATCAACCCTGAGATTATCACTCGAGATGTGAGTAC
15060 IS [AG]
16285 I A GGTCTGCCAGTTTGGGCATGGGGTCT
16286 P A A CGCGCCGAGGAGAGGTCAGACATGGCY
16286 P G A ATGACGTGGCAGACGGAGGTCAGACATGGCY
16286 T A A AGGGGCCATGTCTGACCTCTGACCCCATGCCCAAACTGGCAGACCAG
16286 T G A AGGGGCCATGTCTGACCTCCGACCCCATGCCCAAACTGGCAGACCAG
GTAGATGCCTTCCTCGGGCCCTACCACCAGGAACTGGTCTGCCAGTTTGGGCATGGGGTC[AG]GAGGTCAGACATGGCCCCTGGCCCAAGCTGAGGGATT
16286 IS [AG] CCTTGGGCTCCCGCTTCCTCCCT
16295 I A GGGGTGGCTCAGCATGACGGCCT
16295 P G A ATGACGTGGCAGACGGCCACAGTTACAGAGAY
16295 P A A CGCGCCGAGGAGCCACAGTTACAGAGAY
16295 T G A CTCCTCTCTGTAACTGTGGCCGGCCGTCATGCTGAGCCACCCCCT
16295 T A A CTCCTCTCTGTAACTGTGGCTGGCCGTCATGCTGAGCCACCCCCT
GGTCAGTGAGCAGGAAACATCTGGAGCCTTGTATTGAGGGGGTGGCTCAGCATGACGGCC[GA]GCCACAGTTACAGAGAGGAGGGGGCAGCAGAAGCCA
16295 IS [GA] CCATCCCTGGGTGAGACGCAGCCT
16300 I A CCCCCCGCCACCAGTGCCTTGT
16300 P G A ATGACGTGGCAGACGTCAGTGCAGTCCCTY
16300 P A A CGCGCCGAGGATCAGTGCAGTCCCTGY
16300 T G A GCCTCAGGGACTGCACTGACCAAGGCACTGGTGGCGGGGGGTG
16300 T A A GCCTCAGGGACTGCACTGATCAAGGCACTGGTGGCGGGGGGTG
ATGGGCACCTGCTGGAGCTCCAGAGCCCCAGCTCCCTCACCCCCCGCCACCAGTGCCTTG[GA]TCAGTGCAGTCCCTGAGGCCACGTCAGGGAGTGTTTC
16300 IS [GA] CAGGCCGTGTCCAGAGATGCCCC
16354 I S AGTGGCCGGGAGAGCACTGGAACCT
16354 P G S CGCGCCGAGGCCGTGCCTTGCTGY
16354 P C S ATGACGTGGCAGACGCGTGCCTTGCTGY
16354 T G S CAGCCAGCAAGGCACGGGGTTCCAGTGCTCTCCCGGCCACTGC
16354 T C S CAGCCAGCAAGGCACGCGGTTCCAGTGCTCTCCCGGCCACTGC
GCAGCCCTCACCACTGCACAAACAGACTTTCTCATTATCAGGGCCAGCCAGCAAGGCACG[GC]GGTTCCAGTGCTCTCCCGGCCACTGCAGGAGCAGAGG
16354 IS [GC] CTAAAAGGAAAGAACTCAGCAAG
16394 I S GCAATGAAACATGCACTTAAAAAGTCAAGCCACATTTTCTTTTCTAAGTGTT
16394 P C S ATGACGTGGCAGACGCACTCTTCCTGTCCTY
16394 P T S CGCGCCGAGGACACTCTTCCTGTCCTCY
16394 T C S ACGTGAGGACAGGAAGAGTGCACACTTAGAAAAGAAAATGTGGCTTGACTTTTTAAGTGCATGTTTCATTGCCT
16394 T T S ACGTGAGGACAGGAAGAGTGTACACTTAGAAAAGAAAATGTGGCTTGACTTTTTAAGTGCATGTTTCATTGCCT
TCTTTCTTTCCCACTCTGAGTCAAGGTGCTGCTGGCTGCAACGTGAGGACAGGAAGAGTG[CT]ACACTTAGAAAAGAAAATGTGGCTTGACTTTTTAAGTGC
16394 IS [CT] ATGTTTCATTGCCTAAAGAAA
16463 I S CCCAACAGACCTGTAGAAACCTTTCCCCTCTCTCA
16463 P A S CGCGCCGAGGTTCCCAGCCTGAAGTCY
16463 P G S ATGACGTGGCAGACCTCCCAGCCTGAAGTY
16463 T A S CAAGGACTTCAGGCTGGGAAGAGAGAGGGGAAAGGTTTCTACAGGTCTGTTGGGGA
16463 T G S CAAGGACTTCAGGCTGGGAGGAGAGAGGGGAAAGGTTTCTACAGGTCTGTTGGGGA
ACTGAGGGGTCAGGAGTCCTGCTTACTACTCTCAATGGGTTCAAGGACTTCAGGCTGGGA[AG]GAGAGAGGGGAAAGGTTTCTACAGGTCTGTTGGGGAC
16463 IS [AG] CGAGTTCAGGCCTTGTGCTGTGA
16573 I A GGAGATGGTGATCACCTGACCAACTCCCCA
16573 P C A ATGACGTGGCAGACCATCCCGCGACGCY
16573 P T A CGCGCCGAGGTATCCCGCGACGCY
16573 T C A GGGGGCGTCGCGGGATGGGGGAGTTGGTCAGGTGATCACCATCTCCCA
16573 T T A GGGGGCGTCGCGGGATAGGGGAGTTGGTCAGGTGATCACCATCTCCCA

FIGURE 129E



Applicant's Docket No. 21004.0004U2

FIGURE 129E

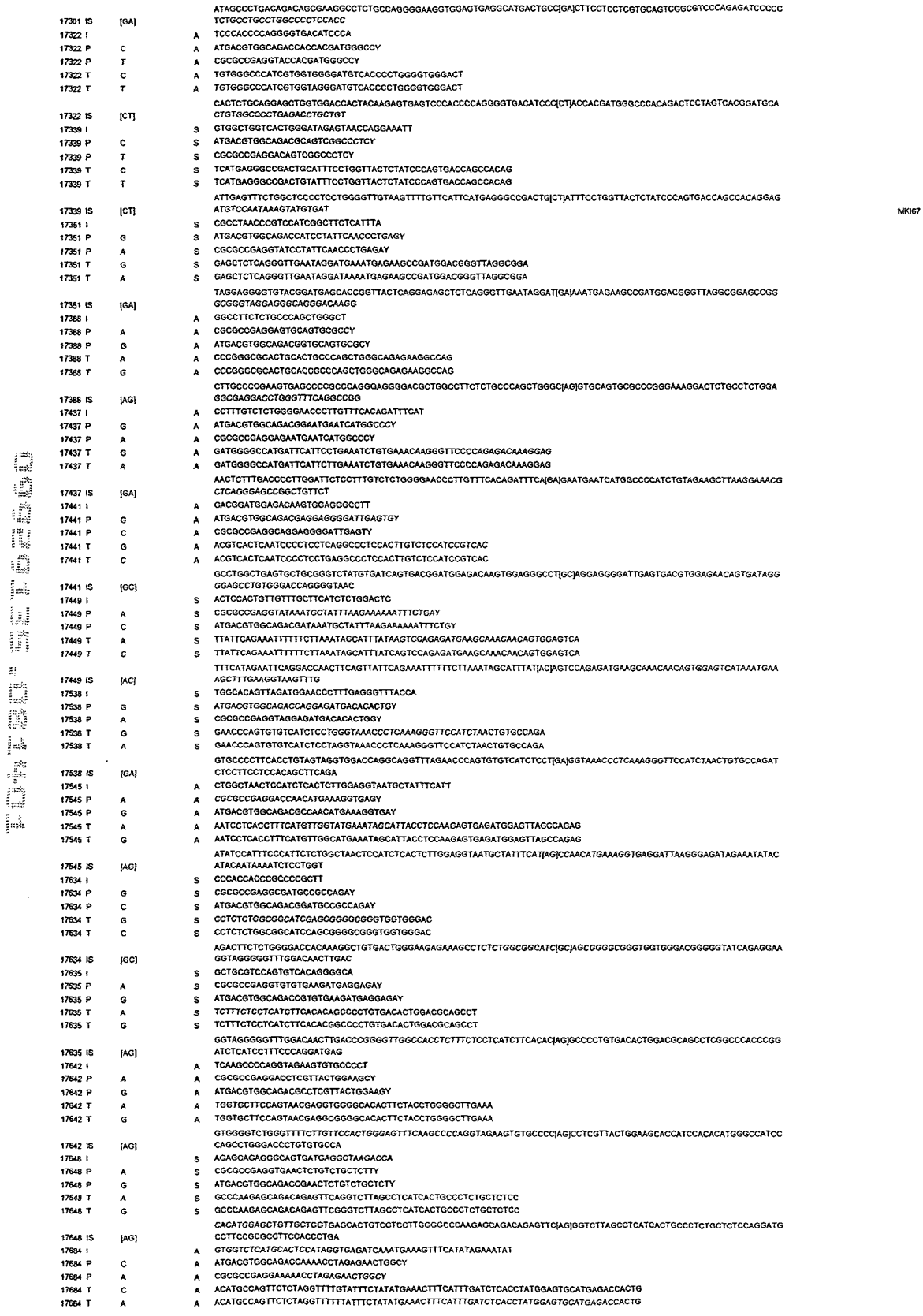
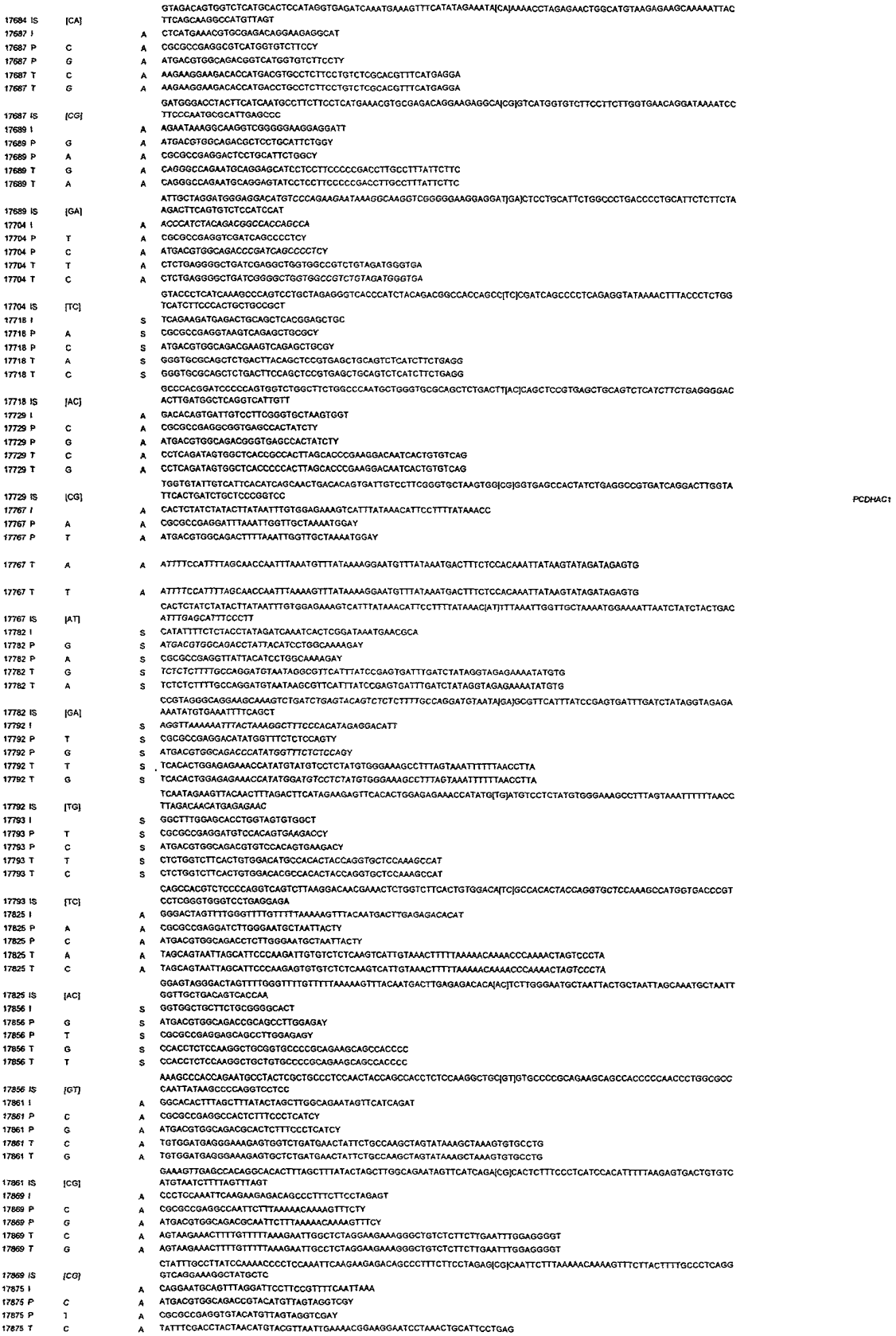

ATAGCCCTGACAGACAGCGAAGGCCTCTGCCAGGGGAAGGTGGAGTGAGGCATGACTGCC[GA]CTTCCTCCTCGTGCAGTCGGCGTCCCAGAGATCCCCC
17301 IS [GA] TCTGCCTGCCTGGCCCCTCCACC
17322 I A TCCCACCCCAGGGGTGACATCCCA
17322 P C A ATGACGTGGCAGACCACCACGATGGGCCY
17322 P T A CGCGCCGAGGTACCACGATGGGCCY
17322 T C A TGTGGGCCCATCGTGGTGGGGATGTCACCCCTGGGGTGGGACT
17322 T T A TGTGGGCCCATCGTGGTAGGGATGTCACCCCTGGGGTGGGACT
CACTCTGCAGGAGCTGGTGGACCACTACAAGAGTGAGTCCCACCCCAGGGGTGACATCCC[CT]ACCACGATGGGCCCACAGACTCCTAGTCACGGATGCA
17322 IS [CT] CTGTGGCCCCTGAGACCTGCTGT
17339 I S GTGGCTGGTCACTGGGATAGAGTAACCAGGAAATT
17339 P C S ATGACGTGGCAGACGCAGTCGGCCCTCY
17339 P T S CGCGCCGAGGACAGTCGGCCCTCY
17339 T C S TCATGAGGGCCGACTGCATTTCCTGGTTACTCTATCCCAGTGACCAGCCACAG
17339 T T S TCATGAGGGCCGACTGTATTTCCTGGTTACTCTATCCCAGTGACCAGCCACAG
ATTGAGTTTCTGGCTCCCCTCCTGGGGTTGTAAGTTTTGTTCATTCATGAGGGCCGACTG[CT]ATTTCCTGGTTACTCTATCCCAGTGACCAGCCACAGGAG
17339 IS [CT] ATGTCCAATAAAGTATGTGAT MKI67
17361 I S CGCCTAACCCGTCCATCGGCTTCTCATTTA
17351 P G S ATGACGTGGCAGACCATCCTATTCAACCCTGAGY
17351 P A S CGCGCCGAGGTATCCTATTCAACCCTGAGAY
17351 T G S GAGCTCTCAGGGTTGAATAGGATGAAATGAGAAGCCGATGGACGGGTTAGGCGGA
17351 T A S GAGCTCTCAGGGTTGAATAGGATAAAATGAGAAGCCGATGGACGGGTTAGGCGGA
TAGGAGGGGTGTACGGATGAGCACCCGGTTACTCAGGAGAGCTCTCAGGGTTGAATAGGAT[GA]AAATGAGAAGCCGATGGACGGGTTAGGCGGAGCCGG
17351 IS [GA] GCGGGTAGGAGGGCAGGGACAAGG
17388 I A GGCCTTCTCTGCCCAGCTGGGCT
17388 P A A CGCGCCGAGGAGTGCAGTGCGCCY
17388 P G A ATGACGTGGCAGACGGTGCAGTGCGCY
17388 T A A CCCGGGCGCACTGCACTGCCCAGCTGGGCAGAGAAGGCCAG
17388 T G A CCCGGGCGCACTGCACCGCCCAGCTGGGCAGAGAAGGCCAG
CTTGCCCCGAAGTGAGCCCCGCCCAGGGAGGGGACGCTGGCCTTCTCTGCCCAGCTGGGC[AG]GTGCAGTGCGCCCGGGAAAGGACTCTGCCTCTGGA
17388 IS [AG] GGCGAGGACCTGGGTTTCAGGCCGG
17437 I A CCTTTGTCTCTGGGGAACCCTTGTTTCACAGATTTCAT
17437 P G A ATGACGTGGCAGACGGAATGAATCATGGCCCY
17437 P A A CGCGCCGAGGAGAATGAATCATGGCCCY
17437 T G A GATGGGGCCATGATTCATTCCTGAAATCTGTGAAACAAGGGTTCCCCAGAGACAAAGGAG
17437 T A A GATGGGGCCATGATTCATTCTTGAAATCTGTGAAACAAGGGTTCCCCAGAGACAAAGGAG
AACTCTTTGACCCCTTGGATTCTCCTTTGTCTCTGGGGAACCCTTGTTTCACAGATTTCA[GA]GAATGAATCATGGCCCCATCTGTAGAAGCTTAAGGAAACG
17437 IS [GA] CTCAGGGAGCCGGCTGTTCT
17441 I A GACGGATGGAGACAAGTGGAGGGCCTT
17441 P G A ATGACGTGGCAGACGAGGAGGGGATTGAGTGY
17441 P C A CGCGCCGAGGCAGGAGGGGATTGAGTY
17441 T G A ACGTCACTCAATCCCCTCCTCAGGCCCTCCACTTGTCTCCATCCGTCAC
17441 T C A ACGTCACTCAATCCCCTCCTGAGGCCCTCCACTTGTCTCCATCCGTCAC
GCCTGGCTGAGTGCTGCGGGTCTATGTGATCAGTGACGGATGGAGACAAGTGGAGGGCCT[GC]AGGAGGGGATTGAGTGACGTGGAGAACAGTGATAGG
17441 IS [GC] GGAGCCTGTGGGACCAGGGGTAAC
17449 I S ACTCCACTGTTGTTTGCTTCATCTCTGGACTC
17449 P A S CGCGCCGAGGTATAAATGCTATTTAAGAAAAAATTTCTGAY
17449 P C S ATGACGTGGCAGACGATAAATGCTATTTAAGAAAAAATTTCTGY
17449 T A S TTATTCAGAAATTTTTTCTTAAATAGCATTTATAAGTCCAGAGATGAAGCAAACAACAGTGGAGTCA
17449 T C S TTATTCAGAAATTTTTTCTTAAATAGCATTTATCAGTCCAGAGATGAAGCAAACAACAGTGGAGTCA
TTTCATAGAATTCAGGACCAACTTCAGTTATTCAGAAATTTTTTCTTAAATAGCATTTAT[AC]AGTCCAGAGATGAAGCAAACAACAGTGGAGTCATAAATGAA
17449 IS [AC] AGCTTTGAAGGTAAGTTTG
17538 I S TGGCACAGTTAGATGGAACCCTTTGAGGGTTTACCA
17538 P G S ATGACGTGGCAGACCAGGAGATGACACACTGY
17538 P A S CGCGCCGAGGTAGGAGATGACACACTGGY
17538 T G S GAACCCAGTGTGTCATCTCCTGGGTAAACCCTCAAAGGGTTCCATCTAACTGTGCCAGA
17538 T A S GAACCCAGTGTGTCATCTCCTAGGTAAACCCTCAAAGGGTTCCATCTAACTGTGCCAGA
GTGCCCCTTCACCTGTAGTAGGTGGACCAGGCAGGTTTAGAACCCAGTGTGTCATCTCCT[GA]GGTAAACCCTCAAAGGGTTCCATCTAACTGTGCCAGAT
17538 IS [GA] CTCCTTCCTCCACAGCTTCAGA
17545 I A CTGGCTAACTCCATCTCACTCTTGGAGGTAATGCTATTTCATT
17545 P A A CGCGCCGAGGACCAACATGAAAGGTGAGY
17545 P G A ATGACGTGGCAGACGCCAACATGAAAGGTGAY
17545 T A A AATCCTCACCTTTCATGTTGGTATGAAATAGCATTACCTCCAAGAGTGAGATGGAGTTAGCCAGAG
17545 T G A AATCCTCACCTTTCATGTTGGCATGAAATAGCATTACCTCCAAGAGTGAGATGGAGTTAGCCAGAG
ATATCCATTTCCCATTCTCTGGCTAACTCCATCTCACTCTTGGAGGTAATGCTATTTCAT[AG]CCAACATGAAAGGTGAGGATTAAGGGAGATAGAAATATAC
17545 IS [AG] ATACAATAAAATCTCCTGGT
17634 I S CCCACCACCCGCCCCGCTT
17634 P G S CGCGCCGAGGCGATGCCGCCAGAY
17634 P C S ATGACGTGGCAGACGGATGCCGCCAGAY
17634 T G S CCTCTCTGGCGGCATCGAGCGGGGCGGGTGGTGGGAC
17634 T C S CCTCTCTGGCGGCATCCAGCGGGGCGGGTGGTGGGAC
AGACTTCTCTGGGGACCACAAAGGCTGTGACTGGGAAGAGAAAGCCTCTCTGGCGGCATC[GC]AGCGGGGCGGGTGGTGGGACGGGGGTATCAGAGGAA
17634 IS [GC] GGTAGGGGGTTTGGACAACTTGAC
17635 I S GCTGCGTCCAGTGTCACAGGGGCA
17635 P A S CGCGCCGAGGTGTGTGAAGATGAGGAGAY
17635 P G S ATGACGTGGCAGACCGTGTGAAGATGAGGAGAY
17635 T A S TCTTTCTCCTCATCTTCACACAGCCCCTGTGACACTGGACGCAGCCT
17635 T G S TCTTTCTCCTCATCTTCACACGGCCCCTGTGACACTGGACGCAGCCT
GGTAGGGGGTTTGGACAACTTGACCCGGGGTTGGCCACCTCTTTCTCCTCATCTTCACAC[AG]GCCCCTGTGACACTGGACGCAGCCTCGGCCCACCCGG
17635 IS [AG] ATCTCATCCTTTCCCAGGATGAG
17642 I A TCAAGCCCCAGGTAGAAGTGTGCCCCT
17642 P A A CGCGCCGAGGACCTCGTTACTGGAAGCY
17642 P G A ATGACGTGGCAGACGCCTCGTTACTGGAAGY
17642 T A A TGGTGCTTCCAGTAACGAGGTGGGGCACACTTCTACCTGGGGCTTGAAA
17642 T G A TGGTGCTTCCAGTAACGAGGCGGGGCACACTTCTACCTGGGGCTTGAAA
GTGGGGTCTGGGTTTTCTTGTTCCACTGGGAGTTTCAAGCCCCAGGTAGAAGTGTGCCCC[AG]CCTCGTTACTGGAAGCACCATCCACACATGGGCCATCC
17642 IS [AG] CAGCCTGGGACCCTGTGTGCCA
17648 I S AGAGCAGAGGGCAGTGATGAGGCTAAGACCA
17648 P A S CGCGCCGAGGTGAACTCTGTCTGCTCTTY
17648 P G S ATGACGTGGCAGACCGAACTCTGTCTGCTCTY
17648 T A S GCCCAAGAGCAGACAGAGTTCAGGTCTTAGCCTCATCACTGCCCTCTGCTCTCC
17648 T G S GCCCAAGAGCAGACAGAGTTCGGGTCTTAGCCTCATCACTGCCCTCTGCTCTCC
CACATGGAGCTGTTGCTGGTGAGCACTGTCCTCCTTGGGGCCCAAGAGCAGACAGAGTTC[AG]GGTCTTAGCCTCATCACTGCCCTCTGCTCTCCAGGATG
17648 IS [AG] CCTTCCGCGCCTTCCACCCTGA
17684 I A GTGGTCTCATGCACTCCATAGGTGAGATCAAATGAAAGTTTCATATAGAAATAT
17684 P C A ATGACGTGGCAGACCAAAACCTAGAGAACTGGCY
17684 P A A CGCGCCGAGGAAAAACCTAGAGAACTGGCY
17684 T C A ACATGCCAGTTCTCTAGGTTTTGTATTTCTATATGAAACTTTCATTTGATCTCACCTATGGAGTGCATGAGACCACTG
17684 T A A ACATGCCAGTTCTCTAGGTTTTTTATTTCTATATGAAACTTTCATTTGATCTCACCTATGGAGTGCATGAGACCACTG

FIGURE 129E



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FIGURE 129E

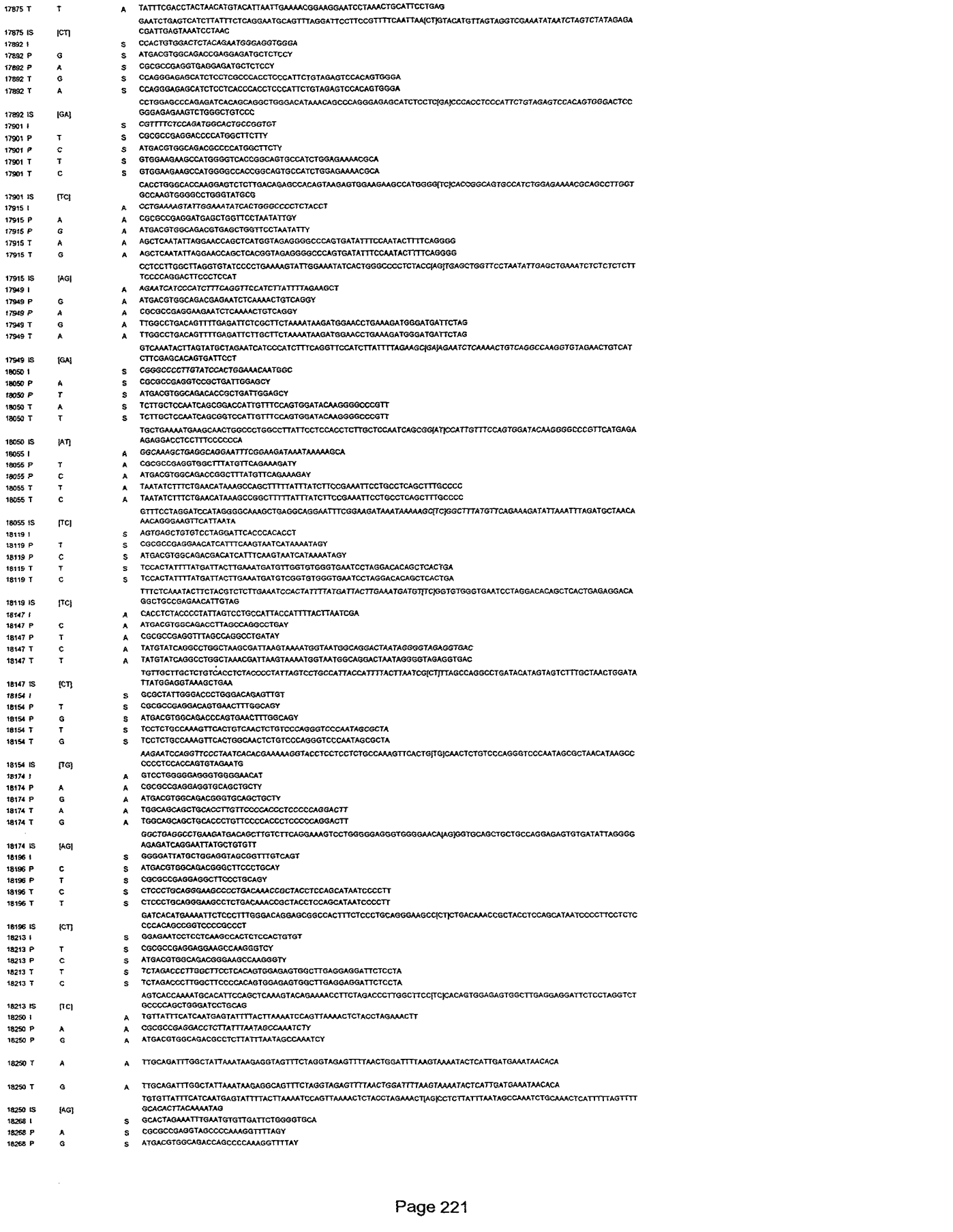


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FIGURE 129E

18268 T	A	S	TTAACTAAAACCTTTGGGGCTAGCACCCCAGAATCAACACATTCAAATTTCTAGTGCAA
18268 T	G	S	TTAACTAAAACCTTTGGGGCTGGCACCCCAGAATCAACACATTCAAATTTCTAGTGCAA
18268 IS	[AG]		CTGAGTAAGTTAGTGACCTGCTAACAAGTTCACAGTCCCTTAACTAAAACCTTTGGGGCT[AG]GCACCCCAGAATCAACACATTCAAATTTCTAGTGCAAAAT AATGAATCTTCACTAATTGA
18318 I		A	TGGGTGCAACCACCCACTCTTCAAATTCCGA
18318 P	C	A	ATGACGTGGCAGACCTTCTGAAGAAACTAAGATCCAY
18318 P	T	A	CGCGCCGAGGTTTCTGAAGAAACTAAGATCCAY
18318 T	C	A	GCCCTGGATCTTAGTTTCTTCAGAAGCGGAATTTGAAGAGTGGGTGGTTGCACCCAAA
18318 T	T	A	GCCCTGGATCTTAGTTTCTTCAGAAACGGAATTTGAAGAGTGGGTGGTTGCACCCAAA
18318 IS	[CT]		ACCAGATTAACGACCATTACTAGCGTGCTTTGGGTGCAACCACCCACTCTTCAAATTCCG[CT]TTCTGAAGAAACTAAGATCCAGGGCCAGTAGGGAAACAG AAACCGGAGTCGGGCTTTGGA
18363 I		A	GTGGGGACACTGTAATCAGAAGAGCAAAAGCCCT
18363 P	A	A	CGCGCCGAGGAGGGAGACATTCCCTACY
18363 P	G	A	ATGACGTGGCAGACGGGGAGACATTCCCTACY
18363 T	A	A	GGGGGTAGGGAATGTCTCCCTGGGCTTTTGCTCTTCTGATTACAGTGTCCCCACAT
18363 T	G	A	GGGGGTAGGGAATGTCTCCCCGGGCTTTTGCTCTTCTGATTACAGTGTCCCCACAT
18363 IS	[AG]		TCGCAAGACAGAAAGGAAGCCAGGAATGTGGGGACACTGTAATCAGAAGAGCAAAAGCCC[AG]GGGAGACATTCCCTACCCCCTACTCACAAACTTACCCA CACACCCTTGTTTGGAGTCAAC
18366 I		S	TCCTCTTCTTCCTCCTCCTCCGATTTGGGCT
18366 P	T	S	CGCGCCGAGGACCACCGTCACCCY
18366 P	C	S	ATGACGTGGCAGACGCCACCGTCACCCY
18366 T	T	S	GCTCGGGTGACGGTGGTGCCCAAATCGGAGGAGGAGGAAGAAGAGGAGG
18366 T	C	S	GCTCGGGTGACGGTGGCGCCCAAATCGGAGGAGGAGGAAGAAGAGGAGG
18366 IS	[TC]		ACCAGAACTACTTAGCAGATGAAGAGGAGGAAGCAGAAGAAGAGGCTCGGGTGACGGTGG[TC]GCCCAAATCGGAGGAGGAGGAAGAAGAGGAGGAGAA AGAAGAGGAGGAAGAGGAGGAAAA
18369 I		A	GGCATCCAGGGCTGTAGCACTCAGGAT
18369 P	A	A	CGCGCCGAGGACTGCCTCCCTGCY
18369 P	C	A	ATGACGTGGCAGACCCTGCCTCCCTGCY
18369 T	A	A	CAGGGCAGGGAGGCAGTTCCTGAGTGCTACAGCCCTGGATGCCAG
18369 T	C	A	CAGGGCAGGGAGGCAGGTCCTGAGTGCTACAGCCCTGGATGCCAG
18369 IS	[AC]		GCAAGGTGGAGCCCTGGATGCCAGCCCCTCACCTGGCATCCAGGGCTGTAGCACTCAGGA[AC]CTGCCTCCCTGCCCTGCCTACCCCCTACATCATGCGA CCATTCCAGTCCAGCCAATCAGC
18418 I		A	GTACCACATGGAGTGAAAAGCAGAAAGCCCCAA
18418 P	T	A	CGCGCCGAGGTTGGTCATTTTCATGGCAY
18418 P	C	A	ATGACGTGGCAGACCTGGTCATTTTCATGGCAY
18418 T	T	A	ATGGTGCCATGAAAATGACCAATGGGGCTTTCTGCTTTTCACTCCATGTGGTACAG
18418 T	C	A	ATGGTGCCATGAAAATGACCAGTGGGGCTTTCTGCTTTTCACTCCATGTGGTACAG
18418 IS	[TC]		TGTGGACCTGTGCTGCCAGGATGGACTGTACCACATGGAGTGAAAAGCAGAAAGCCCCA[TC]TGGTCATTTTCATGGCACCATTCAACCAGCTTACCAGC TCTTCTGGCAACAAGAAACTGA
18459 I		A	GAGGTGAGAAGTGTTCCAATGCCAAAATAATTCATACTTATTTGA
18459 P	T	A	CGCGCCGAGGTAGAGCACTTAGAAAATGCAGY
18459 P	C	A	ATGACGTGGCAGACCAGAGCACTTAGAAAATGCAY
18459 T	T	A	TTCTCTGCATTTTCTAAGTGCTCTACAAATAAGTATGAATTATTTTGGCATTGGAACACTTCTCACCTCTT
18459 T	C	A	TTCTCTGCATTTTCTAAGTGCTCTGCAAATAAGTATGAATTATTTTGGCATTGGAACACTTCTCACCTCTT
18459 IS	[TC]		TCTAGTAACATTTCAAGAGGTGAGAAGTGTTCCAATGCCAAAATAATTCATACTTATTTG[TC]AGAGCACTTAGAAAATGCAGAGAAGGAAAATTATGACTAGC CCATCACTCTGAGATAATC
18526 I		S	GCCAGGCCCTGAAACTTAGATAATTTGGATATGTTTCTCATCAGATTTAAAT
18526 P	G	S	ATGACGTGGCAGACCAAGCTTAACACTGTGATTTTY
18526 P	T	S	CGCGCCGAGGAAAGCTTAACACTGTGATTTTCY
18526 T	G	S	AATGGAAAATCACAGTGTTAAGCTTGTTTAAATCTGATGAGAAACATATCCAAATTATCTAAGTTTCAGGGCCTGGCTG
18526 T	T	S	AATGGAAAATCACAGTGTTAAGCTTTTTTAAATCTGATGAGAAACATATCCAAATTATCTAAGTTTCAGGGCCTGGCTG
18526 IS	[GT]		GGTAGGGAGGCAGAAAAGGGTTGAGAATTACTTGAAATGGAAAATCACAGTGTTAAGCTT[GT]TTAAATCTGATGAGAAACATATCCAAATTATCTAAGTTT CAGGGCCTGGCTGTTTAAGT
18598 I		S	CGTGGCCAAGATCGCCAGTGCCCT
18598 P	C	S	ATGACGTGGCAGACGCTTCGAGCCAGCY
18598 P	T	S	CGCGCCGAGGACTTCGAGCCAGCCY
18598 T	C	S	GATTGGCTGGCTCGAAGCGGGCACTGGCGATCTTGGCCACGGA
18598 T	T	S	GATTGGCTGGCTCGAAGTGGGCACTGGCGATCTTGGCCACGGA
18598 IS	[CT]		CAGGCCATGTACTTGCCATGGTGAGGGTCACACTTGACCATCTGATTGGCTGGCTCGAAG[CT]GGGCACTGGCGATCTTGGCCACGGACAGCTGCTCATG GTAGGCCTTCTTGGCTGAGATGA
18670 I		S	TTACATATTTTGATAATATCCCTAATTATAAATAAGGCTCAGTTATATAGTTTGAAAACAT
18670 P	T	S	CGCGCCGAGGATGCTTCTCCTCATTGCY
18670 P	C	S	ATGACGTGGCAGACGTGCTTCTCCTCATTGCY
18670 T	T	S	TTTTGCAATGAGGAGAAGCATTGTTTTCAAACTATATAACTGAGCCTTATTTATAATTAGGGATATTATCAAAATATGTAA
18670 T	C	S	TTTTGCAATGAGGAGAAGCACTGTTTTCAAACTATATAACTGAGCCTTATTTATAATTAGGGATATTATCAAAATATGTAA
18670 IS	[TC]		TTCCATTTCCGTTCCTGGATCTACGGAGTCTTCTAAGAGATTTTGCAATGAGGAGAAGCA[TC]TGTTTTCAAACTATATAACTGAGCCTTATTTATAATTAGGG ATATTATCAAAATATGTAA
18682 I		A	CCTTGGGCAACTGTCTTCCACTTTTTCTGTGGAT
18682 P	A	A	CGCGCCGAGGAACCCGATAAAGGTGGAY
18682 P	G	A	ATGACGTGGCAGACGACCCGATAAAGGTGGAY
18682 T	A	A	GCCGTCCACCTTTATCGGGTTTCCACAGAAAAAGTGGAAGACAGTTGCCCAAGGCC
18682 T	G	A	GCCGTCCACCTTTATCGGGTCTCCACAGAAAAAGTGGAAGACAGTTGCCCAAGGCC
18682 IS	[AG]		AGCCCTTTCTCCTCTGGGGAAGAAAGGCCTTGGGCAACTGTCTTCCACTTTTTCTGTGGA[AG]ACCCGATAAAGGTGGACGGCCGGCTGTGTTAAAGGTGG GCGACATGGCTTCTAAAAAGTG
18684 I		A	CTCCCACCAGATATAAAAACTCATTATAATGGCATGCGTTCCGC
18684 P	T	A	CGCGCCGAGGTCACAACTTCGGACAGAY
18684 P	A	A	ATGACGTGGCAGACACACAACTTCGGACAGAY
18684 T	T	A	AACTTCTGTCCGAAGTTGTGACGGAACGCATGCCATTATAATGAGTTTTTATATCTGGTGGGAGCT
18684 T	A	A	AACTTCTGTCCGAAGTTGTGTCGGAACGCATGCCATTATAATGAGTTTTTATATCTGGTGGGAGCT
18684 IS	[TA]		TTATACCCTTGTAAAAGCTCCCACCAGATATAAAAACTCATTATAATGGCATGCGTTCCG[TA]CACAACTTCGGACAGAAGTTGGGTCTTTGGGCAGGAAGTG GAAGCCATAGAGGAAGTCAT
18737 I		A	AGGGGTGAGCAGCAAACAGGAGGTGACT
18737 P	G	A	ATGACGTGGCAGACGCAGATTCCTGCAGCY
18737 P	A	A	CGCGCCGAGGACAGATTCCTGCAGCTY
18737 T	G	A	TCAGAGCTGCAGGAATCTGCGTCACCTCCTGTTTGCTGCTCACCCCTGT
18737 T	A	A	TCAGAGCTGCAGGAATCTGTGTCACCTCCTGTTTGCTGCTCACCCCTGT
18737 IS	[GA]		GCCACTAACCAGTCTATTGCTGTTTTTCTGAACAGGGGTGAGCAGCAAACAGGAGGTGAC[GA]CAGATTCCTGCAGCTCTGAGTGTCCCAGAAGGAGAAAA CTTGGTTCTCAACTGCAGTTTC
18752 I		S	CCTGGCAGTACACCATGGAGGGATATGGGAGT
18752 P	G	S	CGCGCCGAGGCCCTCATGCCATCACY
18752 P	C	S	ATGACGTGGCAGACGCCTCATGCCATCACY
18752 T	G	S	AAAGGTGATGGCATGAGGGCTCCCATATCCCTCCATGGTGTACTGCCAGGCC
18752 T	C	S	AAAGGTGATGGCATGAGGCCTCCCATATCCCTCCATGGTGTACTGCCAGGCC
18752 IS	[GC]		TTTTGGTGCATGGCAAGGGCTTGTGTTGCCATCCTGGCTTTTAAAGGTGATGGCATGAGG[GC]CTCCCATATCCCTCCATGGTGTACTGCCAGGCCTTCAG GGAGTAGTTGATTGTGCCATGG
18754 I		A	GGCGGCCCTTACCAGAGCGCAAT
18754 P	C	A	ATGACGTGGCAGACCGCAGTGGCCTCTY
18754 P	A	A	CGCGCCGAGGAGCAGTGGCCTCTCY
18754 T	C	A	TAGGGAGAGGCCACTGCGTTGCGCTCTGGTAAGGGCCGCCGC

USP18

FIGURE 129E

18754	T	A	A	TAGGGAGAGGCCACTGCTTTGCGCTCTGGTAAGGGCCGCCGC	
18754	IS	[CA]		GCGACCTGCTCTGTGAAAGTTAAGTTCGCGGCGGCCGCGGCGGCCCTTACCAGAGCGCAA[CA]GCAGTGGCCTCTCCCTAGCCGGGCCAAGAGCCCGCT CGCCGCGGCCCTGGGGCTCCAGGA	
18771	I		S	TGCCGCTGAACGCCTCCCCACA	
18771	P	G	S	ATGACGTGGCAGACCCACCTGTCCACCCY	
18771	P	A	S	CGCGCCGAGGTCACCTGTCCACCCY	
18771	T	G	S	GGGCGGGTGGACAGGTGGGTGGGGAGGCGTTCAGCGGCAGC	
18771	T	A	S	GGGCGGGTGGACAGGTGAGTGGGGAGGCGTTCAGCGGCAGC	
18771	IS	[GA]		CCAGAGCTCTGGAGTTCTTGCCTGGCTCCAGGAAGCGATCTGCGGGCGGGTGGACAGGTG[GA]GTGGGGAGGCGTTCAGCGGCAGCGGGGACCAGCCT CCACCACATTTTCACGGCAGGCCCC	
18812	I		S	GCGGGTACCACGCTCCAGCCTGA	
18812	P	G	S	ATGACGTGGCAGACCGGCCAGACAGGAGY	
18812	P	A	S	CGCGCCGAGGTGGCCAGACAGGAGY	
18812	T	G	S	GCGTCTCCTGTCTGGCCGCAGGCTGGAGCGTGGTACCCGCCC	
18812	T	A	S	GCGTCTCCTGTCTGGCCACAGGCTGGAGCGTGGTACCCGCCC	
18812	IS	[GA]		ACCTTCGCAGCTGCGGAGATCTGAGCTCTAGCTCTTCCCTGCGGCGTCTCCTGTCTGGCC[GA]CAGGCTGGAGCGTGGTACCCGCCCCCACAGCCTCAGC CTCAACGGGGGCAGCCGGGAGAC	C1ORF2
18836	I		A	TGCCCCTGCCCCCAGCCCC	
18836	P	T	A	CGCGCCGAGGTCCAGCCCCCTCAY	
18836	P	G	A	ATGACGTGGCAGACGCCAGCCCCCTCY	
18836	T	T	A	ACAGTGAGGGGGCTGGAGGGCTGGGGGCAGGGGCAGT	
18836	T	G	A	ACAGTGAGGGGGCTGGCGGGCTGGGGGCAGGGGCAGT	
18836	IS	[TG]		AGCCGTTCCGGGGAGGCCGGCCTGAGGCCCTCAGGTCAGCACTGCCCCTGCCCCCAGCCC[TG]CCAGCCCCCTCACTGTACCTGAGTGTCCATCATGGC CCACCAGCTTACTGGGTTGAAGCG	
18839	I		S	CTGCCAGAGGGATGCCCTCCTTCCAA	
18839	P	A	S	CGCGCCGAGGTCTATTGTGCTGCTTCTGY	
18839	P	G	S	ATGACGTGGCAGACCCTATTGTGCTGCTTCTGY	
18839	T	A	S	GGATCAGAAGCAGCACAATAGATGGAAGGAGGGCATCCCTCTGGCAGGG	
18839	T	G	S	GGATCAGAAGCAGCACAATAGGTGGAAGGAGGGCATCCCTCTGGCAGGG	
18839	IS	[AG]		GGGGCCAAGGTGGGGCTGGGCTTCAAATGGGGCAGGACAGGATCAGAAGCAGCACAATAG[AG]TGGAAGGAGGGCATCCCTCTGGCAGGGGAGTCATGC CACCGGCCCATCCTCCAGCTTTGC	
18881	I		S	ACTTACAGCCTCTCAGTAAAACAAAACCTTAATGGTCATCTCATCCT	
18881	P	T	S	CGCGCCGAGGATTTACCCTTCCACAATCTGY	
18881	P	C	S	ATGACGTGGCAGACGTTTACCCTTCCACAATCTY	
18881	T	T	S	GATTCAGATTGTGGAAGGGTAAATGGATGAGATGACCATTAAGGTTTTGTTTTACTGAGAGGCTGTAAGTCT	
18881	T	C	S	GATTCAGATTGTGGAAGGGTAAACGGATGAGATGACCATTAAGGTTTTGTTTTACTGAGAGGCTGTAAGTCT	
18881	IS	[TC]		ATGGCTGTTTGTCAGGAGGCGGTAGAAAGGTAGAAAGGATTCAGATTGTGGAAGGGTAAA[TC]GGATGAGATGACCATTAAGGTTTTGTTTTACTGAGAGG CTGTAAGTCTGCCAGGGACAGC	KIAA1036
18896	I		A	GACACTGGTGAGCAAGGGTCGGGGAC	
18896	P	G	A	ATGACGTGGCAGACGTTCTAGTGCGTAACAGTCY	
18896	P	T	A	CGCGCCGAGGTTTCTAGTGCGTAACAGTCY	
18896	T	G	A	CCTAGACTGTTACGCACTAGAACTCCCCGACCCTTGCTCACCAGTGTCCC	
18896	T	T	A	CCTAGACTGTTACGCACTAGAAATCCCCGACCCTTGCTCACCAGTGTCCC	
18896	IS	[GT]		CGGCCTTCCCATCCTGGAGGGCCCCCAGTCTCTGGGACACTGGTGAGCAAGGGTCGGGGA[GT]TTCTAGTGCGTAACAGTCTAGGGAGAGACTCCTGTGG TGGTGCATGGAAGGGCAGGTCTG	
18905	I		S	CCCCGCAGCCCTGTAGCAGAAGTACTTAGA	
18905	P	G	S	ATGACGTGGCAGACCGCTTTGCATTCTGCY	
18905	P	A	S	CGCGCCGAGGTGCTTTGCATTCTGCGY	
18905	T	G	S	GGCGCGCAGAATGCAAAGCGCTAAGTACTTCTGCTACAGGGCTGCGGGGCA	
18905	T	A	S	GGCGCGCAGAATGCAAAGCACTAAGTACTTCTGCTACAGGGCTGCGGGGCA	
18905	IS	[GA]		GGTTCGGAAGCAACGATTCACAGAGGAGGCCGGGGTAGGGTGGCGCGCAGAATGCAAAGC[GA]CTAAGTACTTCTGCTACAGGGCTGCGGGGCAGGGCT GAGGGGCGTGGAGAGCTGTGGACA	
18938	I		S	CCTAGGCTCATCTCTGGAACATGGTCCTACAAAATTGAGAA	
18938	P	G	S	ATGACGTGGCAGACCGAATTCCAGCCCTCAY	
18938	P	A	S	CGCGCCGAGGTGAATTCCAGCCCTCAY	
18938	T	G	S	CAGCTGAGGGCTGGAATTCGTCTCAATTTTGTAGGACCATGTTCCAGAGATGAGCCTAGGAC	
18938	T	A	S	CAGCTGAGGGCTGGAATTCATCTCAATTTTGTAGGACCATGTTCCAGAGATGAGCCTAGGAC	
18938	IS	[GA]		TCCTGCAGCTTATATCACAACTAGAAACCTCATTATCATTGCAGCTGAGGGCTGGAATTC[GA]TCTCAATTTTGTAGGACCATGTTCCAGAGATGAGCCTAGG ACTTCCTAACACTCTTTTTC	
18952	I		S	CTATCCCTTCCCTTGATCTTTGTGTGTCAGCTTTTCTTACCT	
18952	P	C	S	ATGACGTGGCAGACGGTAGGGCTGTCAGTY	
18952	P	T	S	CGCGCCGAGGAGTAGGGCTGTCAGTGY	
18952	T	C	S	GGTTCACTGACAGCCCTACCGGTAAGAAAAGCTGACACACAAAGATCAAGGGAAGGGATAGCA	
18952	T	T	S	GGTTCACTGACAGCCCTACTGGTAAGAAAAGCTGACACACAAAGATCAAGGGAAGGGATAGCA	
18952	IS	[CT]		CTCCTGAAAGAGCAAGAGGCCCCTTTCATCTTAGTAACTGAGGTTCACTGACAGCCCTAC[CT]GGTAAGAAAAGCTGACACACAAAGATCAAGGGAAGGGAT AGCAAGAGGGACCTATAAATC	
18978	I		A	GGTCTGTGTAACTGGGCTTTCACCAGATTTTGCATCC	
18978	P	G	A	ATGACGTGGCAGACGCACTCTTCCTTCCCTY	
18978	P	T	A	CGCGCCGAGGTCACTCTTCCTTCCCTGY	
18978	T	G	A	TGTTCAGGGAAGGAAGAGTGCGATGCAAAATCTGGTGAAAGCCCAGTTACACAGACCTA	
18978	T	T	A	TGTTCAGGGAAGGAAGAGTGAGATGCAAAATCTGGTGAAAGCCCAGTTACACAGACCTA	
18978	IS	[GT]		GCCCTGTGTCTGTGTCAGACCCTAGGTCTGTGTAACTGGGCTTTCACCAGATTTTGCATC[GT]CACTCTTCCTTCCCTGAACATTTTGCTGCTGCTTCTGCC CACAGCTCCAGTTCCCACTGC	
18997	I		A	GGGCAATGCATTAAGTTCCACACAACGGCACATATTTTAA	
18997	P	C	A	ATGACGTGGCAGACCAGTCATTTGCTAGAATACCTY	
18997	P	T	A	CGCGCCGAGGTAGTCATTTGCTAGAATACCTCY	
18997	T	C	A	AGTGGAGGTATTCTAGCAAATGACTGTAAAATATGTGCCGTTGTGTGGAACTTAATGCATTGCCCTT	
18997	T	T	A	AGTGGAGGTATTCTAGCAAATGACTATAAAATATGTGCCGTTGTGTGGAACTTAATGCATTGCCCTT	
18997	IS	[CT]		ACAAGAGAAAGAATAAGCAAAGGGCAATGCATTAAGTTCCACACAACGGCACATATTTTA[CT]AGTCATTTGCTAGAATACCTCCACTTCAATGATGTCATCC AGTGACCCCGACAAAAGGAT	
19008	I		A	TGAGCACACAAAGCAGGCACCAGCATAAGTCT	
19008	P	A	A	CGCGCCGAGGAATCCGAGTGGGTCATY	
19008	P	G	A	ATGACGTGGCAGACGATCCGAGTGGGTCATY	
19008	T	A	A	TACCATGACCCACTCGGATTGACTTATGCTGGTGCCTGCTTTGTGTGCTCAGG	
19008	T	G	A	TACCATGACCCACTCGGATCGACTTATGCTGGTGCCTGCTTTGTGTGCTCAGG	
19008	IS	[AG]		GCTGAGCCCGGCCTCAGCTCCGGGACCCCTGAGCACACAAAGCAGGCACCAGCATAAGTC[AG]ATCCGAGTGGGTCATGGTAGTAACCCCATTCCCCAGA GGGCTGGCTCTGGGACAGGACAA	
19013	I		S	CCTCCGTCCTCTGCTCCATCCCTCCA	
19013	P	G	S	ATGACGTGGCAGACCGCCAGGCTCCTCY	
19013	P	A	S	CGCGCCGAGGTGCCAGGCTCCTCY	
19013	T	G	S	GTGGGAGGAGCCTGGCGGGAGGGATGGAGCAGAGGACGGAGGCT	
19013	T	A	S	GTGGGAGGAGCCTGGCAGGAGGGATGGAGCAGAGGACGGAGGCT	
19013	IS	[GA]		GCAGAAGTCTTCCCTGTCTGAGTCTCCTGCAAAAGCAGGTGCTGGTGGGAGGAGCCTGGC[GA]GGAGGGATGGAGCAGAGGACGGAGGCTCAGGGGGAT TCCTGCCATCCTTTTCCTAGAACG	
19033	I		A	CCTCCAACTCCCTTGGTCCTCTCCTGCTAT	
19033	P	C	A	CGCGCCGAGGCAGCCTACGTGCACTY	
19033	P	G	A	ATGACGTGGCAGACGAGCCTACGTGCACTY	
19033	T	C	A	TCCAAGTGCACGTAGGCTGTAGCAGGAGAGGACCAAGGGAGTTGGAGGGT	
19033	T	G	A	TCCAAGTGCACGTAGGCTCTAGCAGGAGAGGACCAAGGGAGTTGGAGGGT	

FIGURE 129E

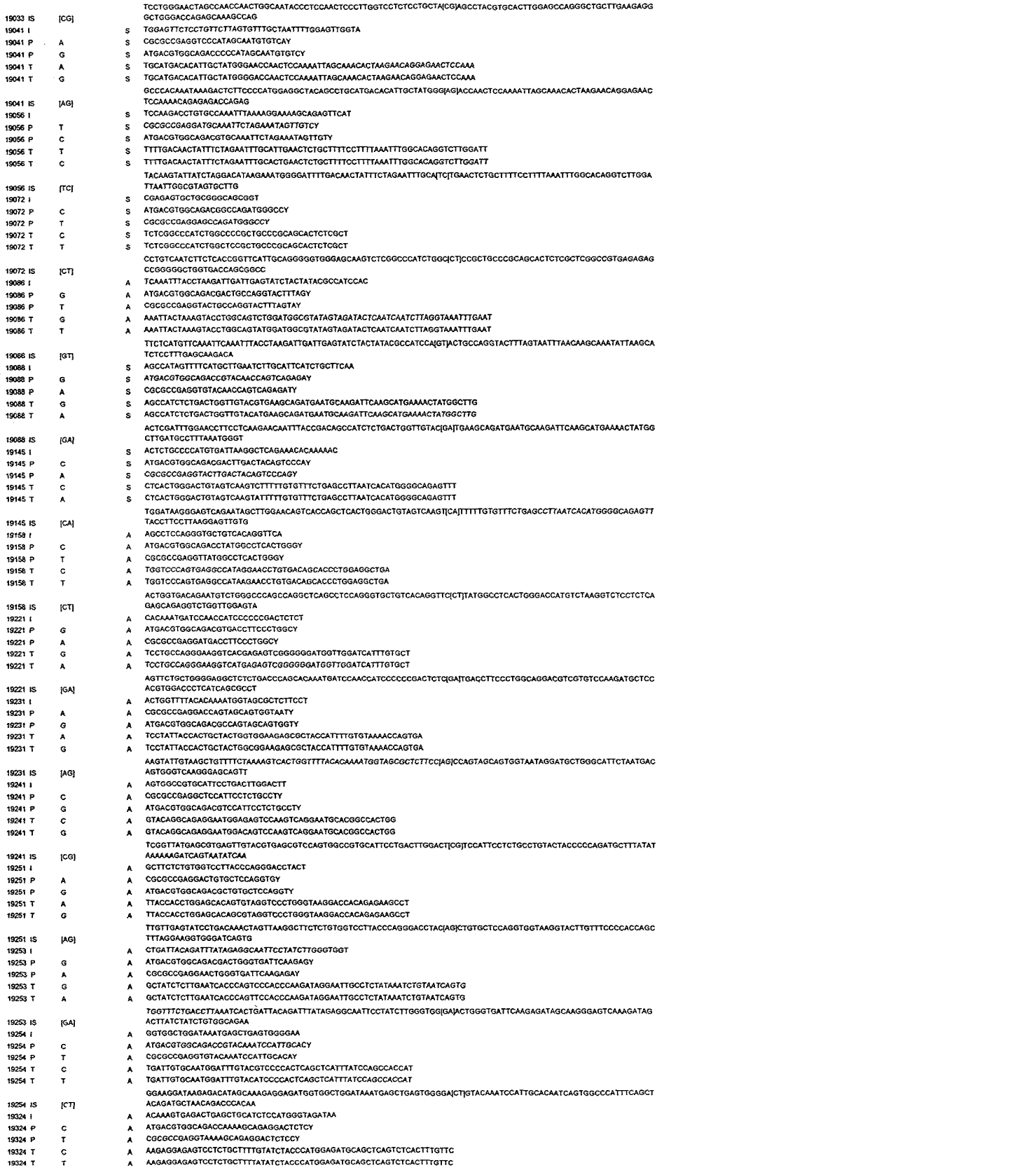
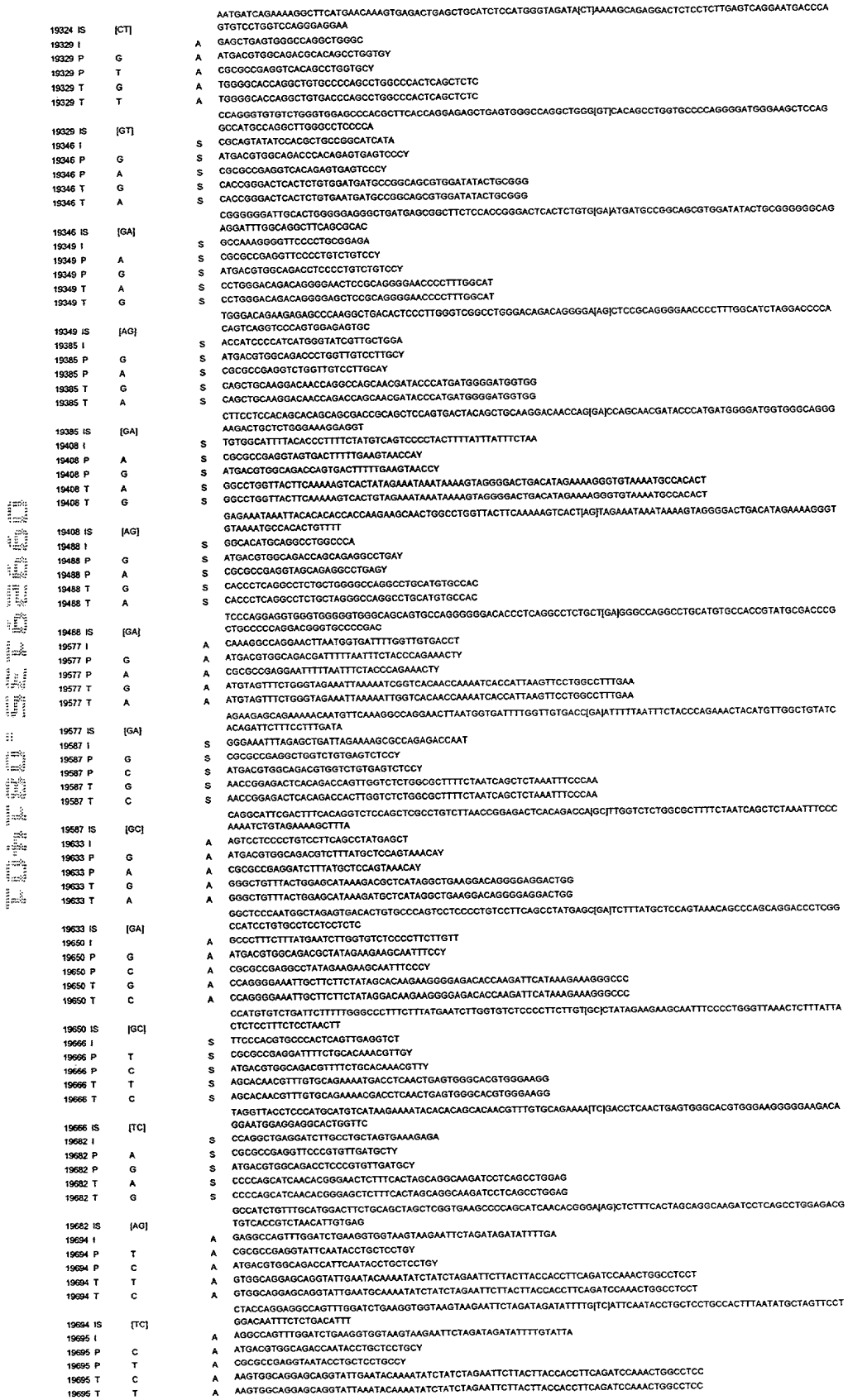


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FIGURE 129E



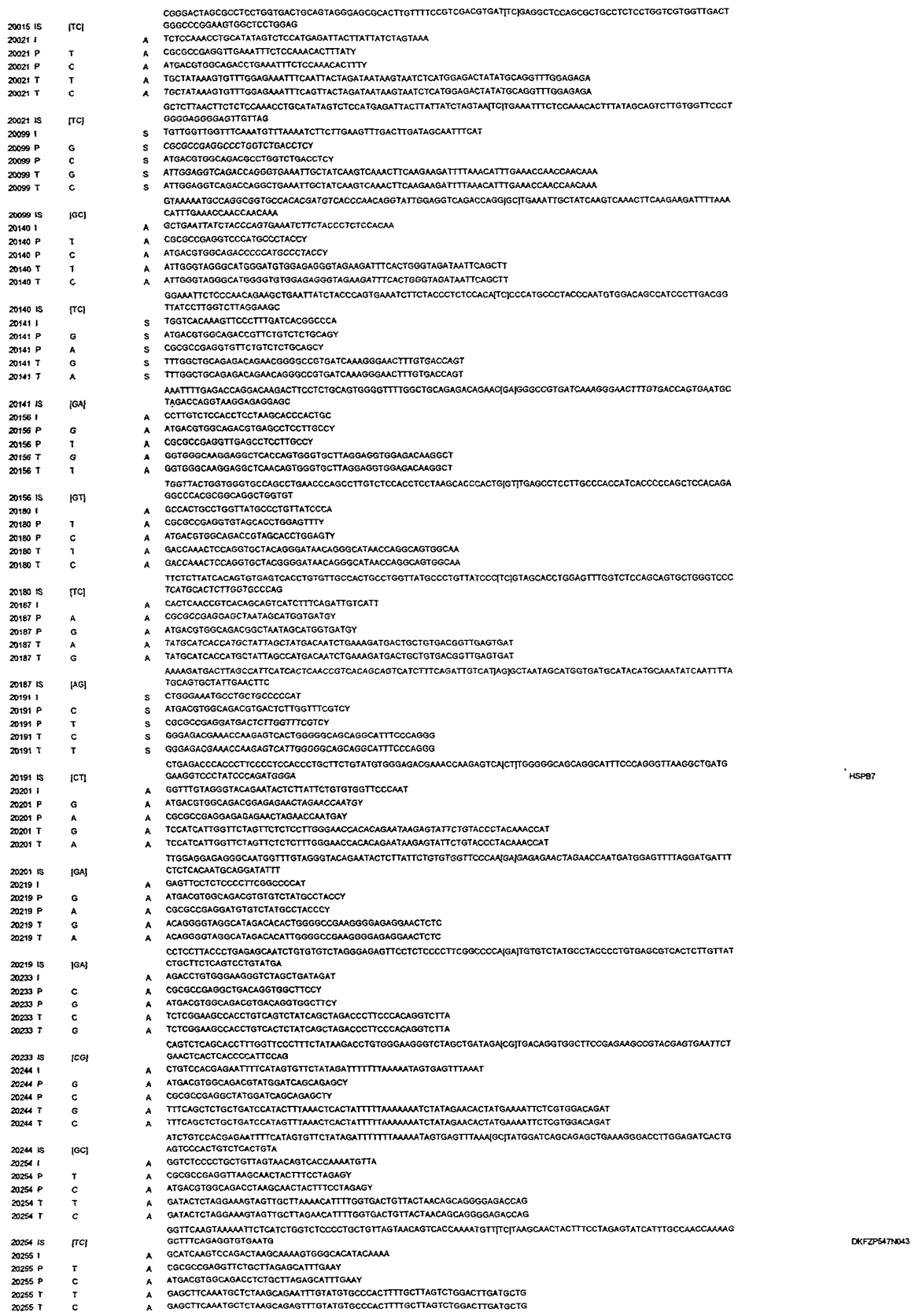
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FIGURE 129E

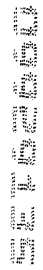
				CAGGAGGCCAGTTTGGATCTGAAGGTGGTAAGTAAGAATTCTAGATAGATATTTTGTATT[CT]AATACCTGCTCCTGCCACTTTAATATGCTAGTTCCTGGAC	
19695	IS	[CT]		AATTTCTCTGACATTTGAAA	
19716	I		S	GGCTCAGTAGTTGCAGGGAGCGGCAA	
19716	P	A	S	CGCGCCGAGGTTTATCAGTGGCTGAGGAY	
19716	P	G	S	ATGACGTGGCAGACCTTATCAGTGGCTGAGGAY	
19716	T	A	S	TGGCTCCTCAGCCACTGATAAATGCCGCTCCCTGCAACTACTGAGCCCA	
19716	T	G	S	TGGCTCCTCAGCCACTGATAAGTGCCGCTCCCTGCAACTACTGAGCCCA	
				GCCCACTGTGACTGATCTGCTGGACTATGAAGCCTTCTGTGGCTCCTCAGCCACTGATAA[AG]TGCCGCTCCCTGCAACTACTGAGCCCAGAGGAGCGTGT	
19716	IS	[AG]		*TTCTGTCACCGACTATAAGCGA*	MOCS3
19755	I		A	ATTTGGAGAGAATCTCCAGTTGCCACCACATTTAGAATGTTGA	
19755	P	C	A	*ATGACGTGGC*AGACCTGCGTTGTTAATTCTAAGAGY	
19755	P	T	A	CGCGCCGAGGTTGCGTTGTTAATTCTAAGAGAY	
19755	T	C	A	AATGTCTCTTAGAATTAACAACGCAGCAACATTCTAAATGTGGTGGCAACTGGAGATTCTCTCCAAATGT	
19755	T	T	A	AATGTCTCTTAGAATTAACAACGCAACAACATTCTAAATGTGGTGGCAACTGGAGATTCTCTCCAAATGT	
				GTTTTTAGTTTTAAGAACATTTGGAGAGAATCTCCAGTTGCCACCACATTTAGAATGTTG[CT]TGCGTTGTTAATTCTAAGAGACATTTAAGGTTCCTCACTAG	
19755	IS	[CT]		CTCCTGATAGGTCTTCAGT	
19774	I		S	GGAGGGGGATATTGAGAGAAGCCTGGAAAAAAAAAAGCT	
19774	P	T	S	CGCGCCGAGGAGGGGAAAAAATACTAGAACACY	
19774	P	C	S	ATGACGTGGCAGACGGGGGAAAAAATACTAGAACAY	
19774	T	T	S	GAATGTGTTCTAGTATTTTTTCCCCTGCTTTTTTTTTTCCAGGCTTCTCTCAATATCCCCCTCCCG	
19774	T	C	S	GAATGTGTTCTAGTATTTTTTCCCCCGCT*TTTTTTTTT*CCAGG*CTTCTC*TCAATATCCCCCTCCCG	
				CCTAAATTATGCTCTGGTTTCCAACCACAGTTCATGAATGTGTTCTAGTATTTTTTCCCC[TC]GCTTTTTTTTTTCCAGGCTTCTCTCAATATCCCCCTCCCGT	
19774	IS	[TC]		CCTTGACCACTCTTGCAAT	
19784	I		A	GCAGGTGGAAACGGAGCTCTTCCCCTT	
19784	P	A	A	CGCGCCGAGGACCTCAGGCACTTTGGY	
19784	P	G	A	ATGACGTGGCAGACGCCTCAGGCACTTTGY	
19784	T	A	A	CAGTCCAAAGTGCCTGAGGTAGGGGAAGAGCTCCGTTTCCACCTGCCG	
19784	T	G	A	CAGTCCAAAGTGCCTGAGGCAGGGGAAGAGCTCCGTTTCCACCTGCCG	
				TCTCCTTACAGGGCATGTACAGCGCCACAACCCGGCAGGTGGAAACGGAGCTCTTCCCCT[AG]CCTCAGGCACTTTGGACTGAGGTTCTATGCCTACAACC	
19784	IS	[AG]		CTCTGGCTGGTACGTGGAGCAT	
19845	I		S	AGGTTATTGGGCTTGTCTTTGGTAGACCCTTTGGAAGT	
19845	P	G	S	CGCGCCGAGGCTCTGCTTATGGAGCTATTACY	
19845	P	C	S	ATGACGTGGCAGACGTCTGCTTATGGAGCTATTACY	
19845	T	G	S	CCTTGTAATAGCTCCATAAGCAGAGCTTCCAAAGGGTCTACCAAAGACAAGCCCAATAACCTGG	
19845	T	C	S	CCTTGTAATAGCTCCATAAGCAGACCTTCCAAAGGGTCTACCAAAGACAAGCCCAATAACCTGG	
				TGGCATAGAAGCTTCATGTTCCATGGAGCTCATAACCCTTGTAATAGCTCCATAAGCAGA[GC]CTTCCAAAGGGTCTACCAAAGACAAGCCCAATAACCTGG	
19845	IS	[GC]		GAAAGCCCAAGGATAGATAAG	
19862	I		A	ACTTGGACTAAACCAATAGAAGCAGGTTGTTTATAAGGAAGA	
19862	P	T	A	CGCGCCGAGGTTGCAAATACACAAGAAAGCY	
19862	P	C	A	*ATGACGTGGC*AGACCTGCAAATACACAAGAAAGCY	
19862	T	T	A	ATAGGCTTTCTTGTGTATTTGCAACTTCCTTATAAACAACCTGCTTCTATTGGTTTAGTCCAAGTTG	
19862	T	C	A	*ATAGGCTTTCTTGTGTATTT*GCAGCTTCCTTATAAACAACCTGCTTCTATTGGTTTAGTCCAAGTTG	
				ATTTCAACAATATTTATCAACTTGGACTAAACCAATAGAAGCAGGTTGTTTATAAGGAAG[TC]TGCAAATACACAAGAAAGCCTATATACTATAAAAACCATGAT	
19862	IS	[TC]		*TAAGCTATCTATGCAACG*	
19897	I		A	CCTTCATGCCTTTGTGGCCTGGAGCCA	
19897	P	T	A	*CGCGCCGAGGTGCCCTCCCTCCAY*	
19897	P	C	A	ATGACGTGGCAGACCGCCCTCCCTCCY	
19897	T	T	A	TGGTTGGAGGGAGGGCAGGCTCCAGGCCACAAAGGCATGAAGGGT	
19897	T	C	A	TGGTTGGAGGGAGGGCGGGCTCCAGGCCACAAAGGCATGAAGGGT	
				TGTCACCTCACCCAGAGGCTCTGCGCTTGGACACCCTTCATGCCTTTGTGGCCTGGAGCC[TC]GCCCTCCCTCCAACCATATCCTGGTGTGTGGAAGGGGA	
19897	IS	[TC]		CAGGGAGCATCCGCAAGGGCCC	
19899	I		A	GAGGCGGAGGTTGCACCGAGCCT	
19899	P	G	A	ATGACGTGGCAGACGAGATCCCGACACTGCY	
19899	P	A	A	CGCGCCGAGGAAGATCCCGACACTGCY	
19899	T	G	A	GAGCGCAGTGTCGGGATCTCGGCTCGGTGCAACCTCCGCCTCCC	
19899	T	A	A	GAGCGCAGTGTCGGGATCTTGGCTCGGTGCAACCTCCGCCTCCC	
				ACTCGGGAGACTGAGGCAGGAGAATCGCTTGAACCCGGGAGGCGGAGGTTGCACCGAGCC[GA]AGATCCCGACACTGCGCTCCAGCCTGGGGGACAGAG	
19899	IS	[GA]		CAAGACTCCGTCTCAAAACAAAAA	
19950	I		S	TCCCCTTTTCTCCTGTGTTGATTCAGATTGTGAGCACT	
19950	P	C	S	ATGACGTGGCAGACGTCCAATGCCTCCCAY	
19950	P	T	S	CGCGCCGAGGATCCAATGCCTCCCAY	
19950	T	C	S	TGCCTGGGAGGCATTGGACGTGCTCACAATCTGAATCAACACAGGAGAAAAGGGGAGG	
19950	T	T	S	TGCCTGGGAGGCATTGGATGTGCTCACAATCTGAATCAACACAGGAGAAAAGGGGAGG	
				GAGGAATGTGCTCTGATTGCCCACGACGTACACCAAGGTGACTGCCTGGGAGGCATTGGA[CT]*GTGCTCACAATCTGAATCAACACAGGAGAAAAGGGGAG*	
19950	IS	[CT]		GGAGACAGGCCAAATAAGACCA	
19956	I		A	GCAGTGAGAGGTGGGTAGAATGGAGTGGAGAAT	
19956	P	A	A	CGCGCCGAGGAGTTAGAAGGTAGTGTTGTCAY	
19956	P	G	A	ATGACGTGGCAGACGGTTAGAAGGTAGTGTTGTCY	
19956	T	A	A	CTAATGACAACACTACCTTCTAACTTTCTCCACTCCATTCTACCCACCTCTCACTGCAC	
19956	T	G	A	CTAATGACAACACTACCTTCTAACCTTCTCCACTCCATTCTACCCACCTCTCACTGCAC	
				TGGCTTGTTTGGGATAAGGGTGGACTGTGCAGTGAGAGGTGGGTAGAATGGAGTGGAGAA[AG]GTTAGAAGGTAGTGTTGTCATTAGCAGTCATTACTACC	
19956	IS	[AG]		TGGGCAGTACAGAGGAACTTCA	
19983	I		S	AGTTGCAGTGCTTTATCTTTTGTTTCTCATATTATGTTGTTATTACCCCTGCA	
19983	P	G	S	ATGACGTGGCAGACCCCTCCTTGACTTTTTGAAY	
19983	P	A	S	CGCGCCGAGGTCCTCCTTGACTTTTTGAATTY	
19983	T	G	S	ATGAAATTCAAAAAGTCAAGGAGGGGCAGGGGTAATAACAACATAATATGAGAAACAAAAGATAAAGCACTGCAACTTG	
19983	T	A	S	ATGAAATTCAAAAAGTCAAGGAGGAGCAGGGGTAATAACAACATAATATGAGAAACAAAAGATAAAGCACTGCAACTTG	
				TACTTTCAATTCCTATTTTGATTTTTATAATGAAAAATGAAATTCAAAAAGTCAAGGAGG[GA]GCAGGGGTAATAACAACATAATATGAGAAACAAAAGATAAA	
19983	IS	[GA]		GCACTGCAACTTGTTTGAC	
20006	I		S	GCCGAAGACTCGGCCTCTAATCGCTGAA	
20006	P	G	S	ATGACGTGGCAGACCTGGTTCCTAGAAGACCTY	
20006	P	A	S	CGCGCCGAGGTTGGTTCCTAGAAGACCTTY	
20006	T	G	S	TTCAAAGGTCTTCTAGGAACCAGTCAGCGATTAGAGGCCGAGTCTTCGGCCA	
20006	T	A	S	TTCAAAGGTCTTCTAGGAACCAATCAGCGATTAGAGGCCGAGTCTTCGGCCA	
				CCAATCAACGTCCCACAGGGGCCGCCTCCCGCGCGTCTTTCAAAGGTCTTCTAGGAACCA[GA]TCAGCGATTAGAGGCCGAGTCTTCGGCCACCCAAAGG	
20006	IS	[GA]		CGGAGTAAGAAACCAGAAGCGGA	
20013	I		S	CTCTGCAAATAAAATATGCCAGTACAGATACACTGTTGTTTTTGA	
20013	P	A	S	CGCGCCGAGGTAAGATAATTTGAGGTTTATTTTATTCAAATY	
20013	P	G	S	ATGACGTGGCAGACCAAGATAATTTGAGGTTTATTTTATTCAAY	
20013	T	A	S	GTTCATTTGAATAAAATAAACCTCAAATTATCTTACAAAAACAACAGTGTATCTGTACTGGCATATTTTATTTGCAGAGGA	
20013	T	G	S	GTTCATTTGAATAAAATAAACCTCAAATTATCTTGCAAAAACAACAGTGTATCTGTACTGGCATATTTTATTTGCAGAGGA	
				ATTTGGGTAGATTCTTAACAATATTTGTTCATTTGAATAAAATAAACCTCAAATTATCTT[AG]CAAAAACAACAGTGTATCTGTACTGGCATATTTTATTTGCAG	
20013	IS	[AG]		AGGAAATACATTTTGGCT	
20015	I		A	GGAGCGCACTTGTTTTCCGTCGACGTGATA	
20015	P	T	A	CGCGCCGAGGTGAGGCTCCAGCGY	
20015	P	C	A	ATGACGTGGCAGACCGAGGCTCCAGCGY	
20015	T	T	A	GCAGCGCTGGAGCCTCAATCACGTCGACGGAAAACAAGTGCGCTCCCT	
20015	T	C	A	GCAGCGCTGGAGCCTCGATCACGTCGACGGAAAACAAGTGCGCTCCCT	

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FIGURE 129E



PROPRIETARY AND CONFIDENTIAL



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                                ATCTCCAGGAATCCATCAACAGCATCAAGTCCAGACTAAGCAAAAGTGGGCACATACAAA[TC]TCTGCTTAGAGCATTTGAAGCTCGTGATCGAAACATACAA
20255 IS    [TC]                GAAAGCAACTTTGATAGAGT
20270 I                     S   GGCCATGGTGGAGCTTTTGCAAAGACTCAGA
20270 P     G               S   ATGACGTGGCAGACCGCTCCTTTCTTGGCY
20270 P     A               S   CGCGCCGAGGTGCTCCTTTCTTGGCTY
20270 T     G               S   CCTCAGCCAAGAAAGGAGCGCTGAGTCTTTGCAAAAGCTCCACCATGGCCCC
20270 T     A               S   CCTCAGCCAAGAAAGGAGCACTGAGTCTTTGCAAAAGCTCCACCATGGCCCC
                                CCCAGGGCACCAGCTCTGAGCCTGGTGGCCCCCTCAGCCAGCCTCAGCCAAGAAAGGAGC[GA]CTGAGTCTTTGCAAAAGCTCCACCATGGCCCCATTTC
20270 IS    [GA]                TCCCTTTTCAGCCATGGACACGG
20338 I                     S   CACACACTCTCTTTGTACCACTTCAGGCCCTATATTAATTTGTTTAGTACTT
20338 P     C               S   ATGACGTGGCAGACGCAAACCAAATCCAACATAGY
20338 P     T               S   CGCGCCGAGGACAAACCAAATCCAACATAGY
20338 T     C               S   GCAGCTATGTTGGATTTGGTTTGCAGTACTAAACAAATTAATATAGGGCCTGAAGTGGTACAAAGAGAGTGTGTGCC
20338 T     T               S   GCAGCTATGTTGGATTTGGTTTGTAGTACTAAACAAATTAATATAGGGCCTGAAGTGGTACAAAGAGAGTGTGTGCC
                                CTTTCACTCAAATTTGTTTCAGTTAGACCACAAATGTGCAGCTATGTTGGATTTGGTTTG[CT]AGTACTAAACAAATTAATATAGGGCCTGAAGTGGTACAAAG
20338 IS    [CT]                AGAGTGTGTGCCAACAGAA
20347 I                     S   CCGCAGCAGCACCGCCCCT
20347 P     C               S   ATGACGTGGCAGACGCGAAGCCCGGGY
20347 P     G               S   CGCGCCGAGGCCGAAGCCCGGGY
20347 T     C               S   CAGCCCCGGGCTTCGCGGGGCGGTGCTGCTGCGGTT
20347 T     G               S   CAGCCCCGGGCTTCGGGGGGCGGTGCTGCTGCGGTT
                                CGCGGCGTCGATTGACTGGGAGCTCCCTGGCCACGCCCTAAGCGCCAGCCCCGGGCTTCG[CG]GGGGCGGTGCTGCTGCGGTTGCCATGGCGTCTTCC
20347 IS    [CG]                GAGCGCGCAGGCGTGGGGCCCAGAG
20362 I                     A   GTGTGAGTGCAAACACAAACACGTGTATATATGAATCTTTGCATGTATCT
20362 P     A               A   CGCGCCGAGGAGTACCCTCTGAAGTTTTTGY
20362 P     G               A   ATGACGTGGCAGACGGTACCCTCTGAAGTTTTTY
20362 T     A               A   CAACCAAAAACTTCAGAGGGTACTGATACATGCAAAGATTCATATATACACGTGTTTGTGTTTGCACTCACACTT
20362 T     G               A   CAACCAAAAACTTCAGAGGGTACCGATACATGCAAAGATTCATATATACACGTGTTTGTGTTTGCACTCACACTT
                                GTGCATGTGAAGTGTGAGTGCAAACACAAACACGTGTATATATGAATCTTTGCATGTATC[AG]GTACCCTCTGAAGTTTTTTGGTTGGTTCCCAGAGCTCTCTC
20362 IS    [AG]                AAGCTACTACTATGTAGATA
20374 I                     S   CCTGGTGGTAAGACTCAATTTTTACTTTTCCTTTCACACACCAAGAT
20374 P     T               S   CGCGCCGAGGAATGCCTTAAAGTGCTTTTCY
20374 P     C               S   ATGACGTGGCAGACGATGCCTTAAAGTGCTTTTCY
20374 T     T               S   CATTGAAAAGCACTTTAAGGCATTTCTTGGTGTGTGAAAGGAAAAGTAAAAATTGAGTCTTACCACCAGGTA
20374 T     C               S   CATTGAAAAGCACTTTAAGGCATCTCTTGGTGTGTGAAAGGAAAAGTAAAAATTGAGTCTTACCACCAGGTA
                                ACAATGAAGACCCTTAATACTGCAGCATACCTGTATACATTGAAAAGCACTTTAAGGCAT[TC]TCTTGGTGTGTGAAAGGAAAAGTAAAAATTGAGTCTTACCA
20374 IS    [TC]                CCAGGTAACTTCTGTGAGA
20402 I                     A   CCAGGAAGGGCATAGGCTGAGTTCTCTTAGTAAAGTGTTATATTCA
20402 P     C               A   ATGACGTGGCAGACCGGACACATTCAGGGY
20402 P     T               A   CGCGCCGAGGTGGACACATTCAGGGGY
20402 T     C               A   ACACCCCCTGAATGTGTCCGGAATATAACACTTTACTAAGAGAACTCAGCCTATGCCCTTCCTGGGG
20402 T     T               A   ACACCCCCTGAATGTGTCCAGAATATAACACTTTACTAAGAGAACTCAGCCTATGCCCTTCCTGGGG
                                GCTCCCTGCAATCCCCCAGGAAGGGCATAGGCTGAGTTCTCTTAGTAAAGTGTTATATTC[CT]GGACACATTCAGGGGGTGTCTCTGAGGCACTGCCAGGC
20402 IS    [CT]                TCTGAGCAAAGCCCGGAGGTCT
20412 I                     A   CCCCCCGCCCCGCCCT
20412 P     C               A   CGCGCCGAGGCCAGGCCACTAGGGY
20412 P     G               A   ATGACGTGGCAGACGCAGGCCACTAGGGY
20412 T     C               A   CCTCCCCTAGTGGCCTGGGGGCGGGGCGGGGGGAG
20412 T     G               A   CCTCCCCTAGTGGCCTGCGGGCGGGGCGGGGGGAG
                                CCACATCCCACCTGCAGCAGTTCCTGTGCCTTTAAAGCCTCCCCTCCCCCCGCCCCGCCC[CG]CAGGCCACTAGGGGAGGGAAGGAGGAGCTGGGTCACA
20412 IS    [CG]                GCAGGGAATCTTAGCTTGGTTTT
20439 I                     A   GGGTTTTACCTTGATTGCCTCCCATTTCACTATTTGCAAAGT
20439 P     C               A   CGCGCCGAGGCATTTCTTCATCTCTTACTGAACY
20439 P     G               A   ATGACGTGGCAGACGATTTCTTCATCTCTTACTGAACY
20439 T     C               A   TAATGTTCAGTAAGAGATGAAGAAATGCTTTGCAAATAGTGAAATGGGAGGCAATCAAGGTAAAACCCCC
20439 T     G               A   TAATGTTCAGTAAGAGATGAAGAAATCCTTTGCAAATAGTGAAATGGGAGGCAATCAAGGTAAAACCCCC
                                TCAGGACAAGCCATATTGGGGGTTTTACCTTGATTGCCTCCCATTTCACTATTTGCAAAG[CG]ATTTCTTCATCTCTTACTGAACATTAATTTGCAATTTTTTTT
20439 IS    [CG]                TTTAATTTGCATTTGAAT
20450 I                     S   GTGCAATTTTTGGACAGTGACTTGGTTTGCCTTTACTGTCC
20450 P     A               S   CGCGCCGAGGTCTTCATTGTCACTTGTCTGY
20450 P     T               S   ATGACGTGGCAGACACTTCATTGTCACTTGTCTGY
20450 T     A               S   TCCTCAGACAAGTGACAATGAAGAGACAGTAAAGGCAAACCAAGTCACTGTCCAAAAATTGCACCA
20450 T     T               S   TCCTCAGACAAGTGACAATGAAGTGACAGTAAAGGCAAACCAAGTCACTGTCCAAAAATTGCACCA
                                TGCTCTGTCCTGTTTTCTGTCTCGGGACACCCTGTCATCCTCAGACAAGTGACAATGAAG[AT]GACAGTAAAGGCAAACCAAGTCACTGTCCAAAAATTGCA
20450 IS    [AT]                CCACCTACCTTGGAGAGCCTC
20453 I                     S   CCAGGGACCAGGCCTGCAGCAGT
20453 P     T               S   CGCGCCGAGGAAAACAATCAAAGTTCCTTGAAY
20453 P     C               S   ATGACGTGGCAGACGAAACAATCAAAGTTCCTTGAAY
20453 T     T               S   TTCCTTCAAGGAACTTTGATTGTTTTCTGCTGCAGGCCTGGTCCCTGGCG
20453 T     C               S   TTCCTTCAAGGAACTTTGATTGTTTCCTGCTGCAGGCCTGGTCCCTGGCG
                                GTAATTCCCACAAGGAAGCAGCTCCTGCTCATTCATTCCTTCAAGGAACTTTGATTGTTT[TC]CTGCTGCAGGCCTGGTCCCTGGCGCTCCAGGAACACAGA
20453 IS    [TC]                CCCAGTCTCAAAAGAAGGGCT
20459 I                     A   CACTTCACTCGTAAGTTGATATCCTAAAGGGAAATCTGCACATTAATTAAGCA
20459 P     C               A   ATGACGTGGCAGACCGTCACAGGACACAAGY
20459 P     T               A   CGCGCCGAGGTGTCACAGGACACAAGY
20459 T     C               A   GGCCCCTTGTGTCCTGTGACGGCTTAATTAATGTGCAGATTTCCCTTTAGGATATCAACTTACGAGTGAAGTGGC
20459 T     T               A   GGCCCCTTGTGTCCTGTGACAGCTTAATTAATGTGCAGATTTCCCTTTAGGATATCAACTTACGAGTGAAGTGGC
                                CGTTGGGCCACTTCACTCGTAAGTTGATATCCTAAAGGGAAATCTGCACATTAATTAAGC[CT]GTCACAGGACACAAGGGGCCCAGGCAAGTCACTGAGCTA
20459 IS    [CT]                AGGGAAGATAAGCAGAAACCA
20517 I                     S   GTGGTAGGGCTCCATGCAAATTTCTCCCTTTCTGT
20517 P     C               S   ATGACGTGGCAGACGAGGTTGCACAACCCY
20517 P     T               S   CGCGCCGAGGAAGGTTGCACAACCCY
20517 T     C               S   GAGGGGGTTGTGCAACCTCCAGAAAGGGAGAAATTTGCATGGAGCCCTACCACTC
20517 T     T               S   GAGGGGGTTGTGCAACCTTCAGAAAGGGAGAAATTTGCATGGAGCCCTACCACTC
                                TCTATGACCACTTTTCAGCCATAACCTTGTCTGAGGTCAAAGGAGGGGGTTGTGCAACCT[CT]CAGAAAGGGAGAAATTTGCATGGAGCCCTACCACTCTGA
20517 IS    [CT]                GGATACGCGTGACAGATAAGA
20531 I                     A   GGTCTTGTTTTGACTTGTTAGACTCAAAATGTCTGTTTTTGCCAATTCATTTC
20531 P     G               A   ATGACGTGGCAGACGCCCTATCAAGATTTGTATTTATAGY
20531 P     T               A   CGCGCCGAGGTCCCTATCAAGATTTGTATTTATAGGY
20531 T     G               A   CAAGCCTATAAATACAAATCTTGATAGGGCAAATGAATTGGCAAAAACAGACATTTTGAGTCTAACAAGTCAAAACAAGACCTT
20531 T     T               A   CAAGCCTATAAATACAAATCTTGATAGGGAAAATGAATTGGCAAAAACAGACATTTTGAGTCTAACAAGTCAAAACAAGACCTT
                                GGATCAAAGGTCTTGTTTTGACTTGTTAGACTCAAAATGTCTGTTTTTGCCAATTCATTT[GT]CCCTATCAAGATTTGTATTTATAGGCTTGAAATGGATATTG
20531 IS    [GT]                TCCTTTGGAAAAGCTGCTG
20548 I                     S   TGAATGCTTTACTCTGACATGTGAATAACATAATTTTTCAAGATTTGATATGTTC
20548 P     A               S   CGCGCCGAGGTAACGACTTACAATTTTACATAAGGY
20548 P     T               S   ATGACGTGGCAGACAAACGACTTACAATTTTACATAAGGY
20548 T     A               S   TTCACCTTATGTAAAATTGTAAGTCGTTAAACATATCAAATCTTGAAAAATTATGTTATTCACATGTCAGAGTAAAGCATTCATG
20548 T     T               S   TTCACCTTATGTAAAATTGTAAGTCGTTTAACATATCAAATCTTGAAAAATTATGTTATTCACATGTCAGAGTAAAGCATTCATG
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FIGURE 129E

			GGACATTCATTATCACCAAAAACATAAGCACCTTCACCTTATGTAAAATTGTAAGTCGTT[AT]AACATATCAAATCTTGAAAAATTATGTTATTCACATGTCAGA
20548 IS	[AT]		GTAAAGCATTCATGTTGG
20552 I		A	CCAAGCGCTCCTGTCGGTGCCAA
20552 P	C	A	ATGACGTGGCAGACCGAGGGGTACTCTCTGY
20552 P	T	A	CGCGCCGAGGTGAGGGGTACTCTCTGY
20552 T	C	A	CCAGCAGAGAGTACCCCTCGTGGCACCGACAGGAGCGCTTGGTG
20552 T	T	A	CCAGCAGAGAGTACCCCTCATGGCACCGACAGGAGCGCTTGGTG
			CGGCGGCTGTGAGCAGTACTGCAGTGACCACACGGGCACCAAGCGCTCCTGTCGGTGCCA[CT]GAGGGGTACTCTCTGCTGGCAGACGGGGTGTCCTGC
20552 IS	[CT]		ACACCCACAGGTGACCAGGCTTCA
20557 I		A	CAACAGGTGAGGAAACAATGGCATAGAATTACTTGTGTTCAGAAGAATTTTAT
20557 P	G	A	ATGACGTGGCAGACGGATGAATATTCCTTAAGCCCY
20557 P	A	A	CGCGCCGAGGAGATGAATATTCCTTAAGCCCY
20557 T	G	A	AGTTGGGCTTAAGGAATATTCATCCTAAAATTCTTCTGAACACAAGTAATTCTATGCCATTGTTTCCTCACCTGTTGGG
20557 T	A	A	AGTTGGGCTTAAGGAATATTCATCTTAAAATTCTTCTGAACACAAGTAATTCTATGCCATTGTTTCCTCACCTGTTGGG
			AAACTCCCCAACAGGTGAGGAAACAATGGCATAGAATTACTTGTGTTCAGAAGAATTTTA[GA]GATGAATATTCCTTAAGCCCAACTACTCTCGGGAAATGAG
20557 IS	[GA]		AACAATGCAAAAATGAGTTT
20558 I		S	GCATTGTTCTCATTTCCCGAGAGTAGTTGGGCTTAAGGAATAA
20558 P	A	S	CGCGCCGAGGTTCATCCTAAAATTCTTCTGAACY
20558 P	G	S	ATGACGTGGCAGACCTCATCCTAAAATTCTTCTGAACY
20558 T	A	S	TTGTGTTCAGAAGAATTTTAGGATGAATATTCCTTAAGCCCAACTACTCTCGGGAAATGAGAACAATGCAA
20558 T	G	S	TTGTGTTCAGAAGAATTTTAGGATGAGTATTCCTTAAGCCCAACTACTCTCGGGAAATGAGAACAATGCAA
			CCCAACAGGTGAGGAAACAATGGCATAGAATTACTTGTGTTCAGAAGAATTTTAGGATGA[AG]TATTCCTTAAGCCCAACTACTCTCGGGAAATGAGAACAAT
20558 IS	[AG]		GCAAAAATGAGTTTGAGACA
20583 I		S	GTTAGCTACTTGTTCAGAATCCAACTTAAAATACCCCACTT
20583 P	G	S	CGCGCCGAGGCCTGGTATTTCTGCATTTGY
20583 P	C	S	ATGACGTGGCAGACGCTGGTATTTCTGCATTTGY
20583 T	G	S	GTTGCAAATGCAGAAATACCAGGAGTGGGGTATTTTAAGTTGGATTCTGAACAAGTAGCTAACTC
20583 T	C	S	GTTGCAAATGCAGAAATACCAGCAGTGGGGTATTTTAAGTTGGATTCTGAACAAGTAGCTAACTC
			GGACACAGCACCACAGCAGCTGACTTACAAGGCACACAGTTGCAAATGCAGAAATACCAG[GC]AGTGGGGTATTTTAAGTTGGATTCTGAACAAGTAGCTAA
20583 IS	[GC]		CTCTATGATGAATTGTACAAG
20621 I		S	CGTGTCTCTGACTGCATCTCCTCTCCCCAT
20621 P	C	S	ATGACGTGGCAGACGCTTAGAGGTGTTAAGATCAGY
20621 P	G	S	CGCGCCGAGGCCTTAGAGGTGTTAAGATCAGY
20621 T	C	S	ACTCCTGATCTTAACACCTCTAAGCTGGGGAGAGGAGATGCAGTCAGAGACACGTC
20621 T	G	S	ACTCCTGATCTTAACACCTCTAAGGTGGGGAGAGGAGATGCAGTCAGAGACACGTC
			TGTAGACAGCCAAGAGTGAGAGGAATTGGGCAGAAGACTCCTGATCTTAACACCTCTAAG[CG]TGGGGAGAGGAGATGCAGTCAGAGACACGTCGCACTTT
20621 IS	[CG]		CCCCCAAAACCGCCCCTTCCCC
20656 I		S	CTGCCTCGGCCCTTCCTGGGCT
20656 P	G	S	CGCGCCGAGGCGGCTAAGAAGCGGTY
20656 P	C	S	ATGACGTGGCAGACGGGCTAAGAAGCGGTY
20656 T	G	S	AAGCACCGCTTCTTAGCCGGCCCAGGAAGGGCCGAGGCAGTC
20656 T	C	S	AAGCACCGCTTCTTAGCCCGCCCAGGAAGGGCCGAGGCAGTC
			TAAAGGGAGGCCCCCGCCCCCTGCCAGACTGAGGGAAGGGGCCAAGCACCGCTTCTTAGCC[GC]GCCCAGGAAGGGCCGAGGCAGTCGTTATCCTGGCAG
20656 IS	[GC]		CCCGGCTCTGGGTCGCGGCGTGGC
20697 I		S	GAGTTTCTTGTAGTATTCTCTCAAAACTCTCAAATGTATTATCATATAAACACAGAGC
20697 P	A	S	CGCGCCGAGGTAAAGATTGATTGATGTTTTGGTAAY
20697 P	C	S	ATGACGTGGCAGACGAAAGATTGATTGATGTTTTGGTY
20697 T	A	S	AGAGTTACCAAAACATCAATCAATCTTTACTCTGTGTTTATATGATAATACATTTGAGAGTTTTGAGAGAATACTACAAGAAACTCTT
20697 T	C	S	AGAGTTACCAAAACATCAATCAATCTTTCCTCTGTGTTTATATGATAATACATTTGAGAGTTTTGAGAGAATACTACAAGAAACTCTT
			ATGGGATTAGATATTCTAAAATGAGTGATTGAAGAGTTACCAAAACATCAATCAATCTTT[AC]CTCTGTGTTTATATGATAATACATTTGAGAGTTTTGAGAGAA
20697 IS	[AC]		TACTACAAGAAACTCTTT
20709 I		A	CCTTGAAAGGGGGAAAAAAATCAAGAAATCCAGGTGTGGAAAATATTAT
20709 P	A	A	CGCGCCGAGGATGATCAGGATATGAATAAGTCTTY
20709 P	G	A	ATGACGTGGCAGACGTGATCAGGATATGAATAAGTCTY
20709 T	A	A	TGAAAAGACTTATTCATATCCTGATCATTAATATTTTCCACACCTGGATTTCTTGATTTTTTTCCCCCTTTCAAGGCT
20709 T	G	A	TGAAAAGACTTATTCATATCCTGATCACTAATATTTTCCACACCTGGATTTCTTGATTTTTTTCCCCCTTTCAAGGCT
			TTCCTGGGTCAGCCTTGAAAGGGGGAAAAAAATCAAGAAATCCAGGTGTGGAAAATATTA[AG]TGATCAGGATATGAATAAGTCTTTTCATTAAAAGCAACAG
20709 IS	[AG]		CAAATAAACAAAAAGTTATC
20733 I		A	TGAGAGGAGAATGGAGTGGGAAAAGTACAAAAATACTGACCTTTTTCTTAA
20733 P	T	A	CGCGCCGAGGTCTGTGTCTCCTTCCTTTY
20733 P	C	A	ATGACGTGGCAGACCCTGTGTCTCCTTCCTTY
20733 T	T	A	TCTGAAAGGAAGGAGACACAGATAAGAAAAAGGTCAGTATTTTTGTACTTTTCCCACTCCATTCTCCTCTCACT
20733 T	C	A	TCTGAAAGGAAGGAGACACAGGTAAGAAAAAGGTCAGTATTTTTGTACTTTTCCCACTCCATTCTCCTCTCACT
			AAACATGTAGTGAGAGGAGAATGGAGTGGGAAAAGTACAAAAATACTGACCTTTTTCTTA[TC]CTGTGTCTCCTTCCTTTCAGAATGGAAAAATGGCCCTCTT
20733 IS	[TC]		CAAGCCTGGTGAGTAAATCA
20816 I		S	CGAGTGACTTTTTCTTGCTGTCACACTTTTTAAGGATTCTATAATGAACCTTA
20816 P	A	S	CGCGCCGAGGTATTACTTTGATAATCATCAAAGTGGY
20816 P	G	S	ATGACGTGGCAGACCATTACTTTGATAATCATCAAAGTGY
20816 T	A	S	TAAACCACTTTGATGATTATCAAAGTAATAAAGGTTCATTATAGAATCCTTAAAAAGTGTGACAGCAAGAAAAAGTCACTCGTA
20816 T	G	S	TAAACCACTTTGATGATTATCAAAGTAATGAAGGTTCATTATAGAATCCTTAAAAAGTGTGACAGCAAGAAAAAGTCACTCGTA
			TTTTCTCATATACTTTTTCATTATTGGTTTCTAAACCACTTTGATGATTATCAAAGTAAT[AG]AAGGTTCATTATAGAATCCTTAAAAAGTGTGACAGCAAGAAA
20816 IS	[AG]		AAGTCACTCGTATTCTGC
20875 I		S	GCCCCCCAGCTCCAACCCCCA
20875 P	G	S	ATGACGTGGCAGACCCAATAGGCCCTAGCTY
20875 P	A	S	CGCGCCGAGGTCAATAGGCCCTAGCTGY
20875 T	G	S	ATGTCAGCTAGGGCCTATTGGGGGGGTTGGAGCTGGGGGGCAG
20875 T	A	S	ATGTCAGCTAGGGCCTATTGAGGGGGTTGGAGCTGGGGGGCAG
			TGAAAGCAGAGAGCCTTCAGCCCTGGTCAAGCTTCCTTCCATGTCAGCTAGGGCCTATTG[GA]GGGGGTTGGAGCTGGGGGGCAGCAAGTGCTTCACCTG
20875 IS	[GA]		TTCCTAGGGGTTCTCTGTGCATG
20878 I		S	TGGAAGCTGGACCTGGCCCCCTCT
20878 P	T	S	CGCGCCGAGGATCTCGCGCAGCAY
20878 P	C	S	ATGACGTGGCAGACGTCTCGCGCAGCAY
20878 T	T	S	TGGCTGCTGCGCGAGATGAGGGGGCCAGGTCCAGCTTCCAAA
20878 T	C	S	TGGCTGCTGCGCGAGACGAGGGGGCCAGGTCCAGCTTCCAAA
			TATGGGCCATCGTGGCTGCCTGTGTGGGGACTGAAGCTGGGCGCTGGCTGCTGCGCGAGA[TC]GAGGGGGCCAGGTCCAGCTTCCAAAGGGCAGCTTCC
20878 IS	[TC]		AGGCAGAGGGCTGCTAACTGGCTG
20881 I		A	TGCCTGCACACATTGTCAGTTGGTCCAGGA
20881 P	C	A	ATGACGTGGCAGACCGGTAAGTCATGAGGAGTY
20881 P	T	A	CGCGCCGAGGTGGTAAGTCATGAGGAGTY
20881 T	C	A	ACCCACTCCTCATGACTTACCGCCTGGACCAACTGACAATGTGTGCAGGCACT
20881 T	T	A	ACCCACTCCTCATGACTTACCACCTGGACCAACTGACAATGTGTGCAGGCACT
			TCACCCATGCCGTGCCTGGCACCTTGCTAAGTGCCTGCACACATTGTCAGTTGGTCCAGG[CT]GGTAAGTCATGAGGAGTGGGTTTTAGTGTCCCAAAGCC
20881 IS	[CT]		TCAGGGAGGTTAAGGCATGTCC
20890 I		S	GAATAGTTTGCAGGCACTTCCCTTCATGGGAAAATACTATGTACT
20890 P	C	S	ATGACGTGGCAGACGTTTCACTATAGACAGGGTATGY
20890 P	T	S	CGCGCCGAGGATTTCACTATAGACAGGGTATGY
20890 T	C	S	CATGCATACCCTGTCTATAGTGAAACGTACATAGTATTTTCCCATGAAGGGAAGTGCCTGCAAACTATTCAA

FIGURE 129E

20890	T	T	S	CATGCATACCCTGTCTATAGTGAAATGTACATAGTATTTTCCCATGAAGGGAAGTGCCTGCAAACTATTCAA
20890	IS	[CT]		TAGAAAGGTCTTGATTTCCATGCTGGGGGTGTAGCCATGCATACCCTGTCTATAGTGAAA[CT]GTACATAGTATTTTCCCATGAAGGGAAGTGCCTGCAAAC TATTCAAAGTATCAGGCCACA
20904	I		A	GGGGAGTGGGATGCCCAAGGGAAATGTCT
20904	P	A	A	CGCGCCGAGGATAAAGGGTCCACTGGTY
20904	P	C	A	ATGACGTGGCAGACCTAAAGGGTCCACTGGTY
20904	T	A	A	CCCAACCAGTGGACCCTTTATGACATTTCCCTTGGGCATCCCACTCCCCTG
20904	T	C	A	CCCAACCAGTGGACCCTTTAGGACATTTCCCTTGGGCATCCCACTCCCCTG
20904	IS	[AC]		GGGGCAGGGAGGGCTGGCCCACGTGATGGCCAGGGGAGTGGGATGCCCAAGGGAAATGTC[AC]TAAAGGGTCCACTGGTTGGGAAAAAATGGAAAATGG AAATAAGGTTAAAATTGAAATGTT
20905	I		S	GAGTAATAAAGCAGTTTGAAAGAAATTTGTTTAAGTCTTCACAAATCACTTTTTAAAT
20905	P	T	S	CGCGCCGAGGAACATTTCAATTTTAACCTTATTTCCY
20905	P	C	S	ATGACGTGGCAGACGACATTTCAATTTTAACCTTATTTCCY
20905	T	T	S	AAATGGAAATAAGGTTAAAATTGAAATGTTTTTAAAAAGTGATTTGTGAAGACTTAAACAAATTTCTTTCAAACTGCTTTATTACTCAT
20905	T	C	S	AAATGGAAATAAGGTTAAAATTGAAATGTCTTTAAAAAGTGATTTGTGAAGACTTAAACAAATTTCTTTCAAACTGCTTTATTACTCAT
20905	IS	[TC]		ATAAAGGGTCCACTGGTTGGGAAAAAATGGAAAATGGAAATAAGGTTAAAATTGAAATGT[TC]TTTAAAAAGTGATTTGTGAAGACTTAAACAAATTTCTTTCA AACTGCTTTATTACTCATA
20949	I		A	ACAAGAAGTAGTACCAACCCAGTGAGTCTCGGGTT
20949	P	G	A	ATGACGTGGCAGACGAGAAATTGGAGTGGTTTGY
20949	P	A	A	CGCGCCGAGGAAGAAATTGGAGTGGTTTGGY
20949	T	G	A	GAAACCAAACCACTCCAATTTCTCACCCGAGACTCACTGGGTTGGTACTACTTCTTGTGT
20949	T	A	A	GAAACCAAACCACTCCAATTTCTTACCCGAGACTCACTGGGTTGGTACTACTTCTTGTGT
20949	IS	[GA]		AGCTAGAGCCCACGTTTGGAGAAAACACAAGAAGTAGTACCAACCCAGTGAGTCTCGGGT[GA]AGAAATTGGAGTGGTTTGGTTTCCCATCTCTAACTTGGC CAGATGTACCATAAGCTGTAT
20959	I		S	GTCAGCAAAATGTGACTTGCTGTTGTCCCAATTATTTCTTATAATCTCGATAATTTTT
20959	P	T	S	CGCGCCGAGGATTTTCTAATAGCCAAATAACAAATTCY
20959	P	C	S	ATGACGTGGCAGACGTTTTCTAATAGCCAAATAACAAATTY
20959	T	T	S	CATAGAATTTGTTATTTGGCTATTAGAAAATAAAATTATCGAGATTATAAGAAATAATTGGGACAACAGCAAGTCACATTTTGCTGACTT
20959	T	C	S	CATAGAATTTGTTATTTGGCTATTAGAAAACAAAATTATCGAGATTATAAGAAATAATTGGGACAACAGCAAGTCACATTTTGCTGACTT
20959	IS	[TC]		GGGTGTCTCAGAGTTTTCTTAAATTTATAACATAGAATTTGTTATTTGGCTATTAGAAAA[TC]AAAATTATCGAGATTATAAGAAATAATTGGGACAACAGCAAG TCACATTTTGCTGACTTC
21004	I		S	GATCATCGATACCACCCAGGCTCCTTATTTGTGGATCA
21004	P	G	S	ATGACGTGGCAGACCCACATCTACAAATGCGCY
21004	P	A	S	CGCGCCGAGGTCACATCTACAAATGCGCY
21004	T	G	S	GTAGGCGCATTTGTAGATGTGGGATCCACAAATAAGGAGCCTGGGTGGTATCGATGATCAA
21004	T	A	S	GTAGGCGCATTTGTAGATGTGAGATCCACAAATAAGGAGCCTGGGTGGTATCGATGATCAA
21004	IS	[GA]		ACGAGTATTGATTCTGGAGTTACAAACACATTTTAGTGAGTAGGCGCATTTGTAGATGTG[GA]GATCCACAAATAAGGAGCCTGGGTGGTATCGATGATCAA AGGGCCTAGCACACCTCAGGC
21008	I		S	GAAGGATCTCTGATTTTAAAAAAGCCTCTGCCTTAGCAAAATCTCAACT
21008	P	C	S	ATGACGTGGCAGACGGTCTTTTAAGGTGAAATATTCTAAAY
21008	P	T	S	CGCGCCGAGGAGTCTTTTAAGGTGAAATATTCTAAAY
21008	T	C	S	CTCCTTTTAGAATATTTCACCTTAAAAGACCGTTGAGATTTTGCTAAGGCAGAGGCTTTTTTAAAATCAGAGATCCTTCTC
21008	T	T	S	CTCCTTTTAGAATATTTCACCTTAAAAGACTGTTGAGATTTTGCTAAGGCAGAGGCTTTTTTAAAATCAGAGATCCTTCTC
21008	IS	[CT]		ATCATAGCTGTCGATCTAGAAAACCTCATGCTCCTTTTAGAATATTTCACCTTAAAAGAC[CT]GTTGAGATTTTGCTAAGGCAGAGGCTTTTTTAAAATCAGAG ATCCTTCTCCTCCAGGTTC
21017	I		S	GAAAGCAACCGTGTTCATGAAAGGAAATGACTTTGAAAGGAA
21017	P	A	S	CGCGCCGAGGTGTCATCGGTGATGCCY
21017	P	G	S	ATGACGTGGCAGACCGTCATCGGTGATGCY
21017	T	A	S	TTGTGGCATCACCGATGACATCCTTTCAAAGTCATTTCCTTTCATGAACACGGTTGCTTTCCA
21017	T	G	S	TTGTGGCATCACCGATGACGTCCTTTCAAAGTCATTTCCTTTCATGAACACGGTTGCTTTCCA
21017	IS	[AG]		CTGAGTTGGCTCATTGTTCTGTCTGCTGCAGAATTGACTTCCTTGTGGCATCACCGATGAC[AG]TCCTTTCAAAGTCATTTCCTTTCATGAACACGGTTGCTTT CCAATAGCCCTCAGTCACTC
21022	I		S	TGGCCCAACCTCGTTTTAGATCTGACAAAGTGACAT
21022	P	T	S	CGCGCCGAGGAAGCAGGCCTAAGTGAY
21022	P	C	S	ATGACGTGGCAGACGAGCAGGCCTAAGTGAY
21022	T	T	S	TGGATCACTTAGGCCTGCTTTGTCACTTTGTCAGATCTAAAACGAGGTTGGGCCAGA
21022	T	C	S	TGGATCACTTAGGCCTGCTCTGTCACTTTGTCAGATCTAAAACGAGGTTGGGCCAGA
21022	IS	[TC]		GGGTCTTGGCTTGGAAGTCCTTGGAATTCTGCCTCTGGGAATGGATCACTTAGGCCTGCT[TC]TGTCACTTTGTCAGATCTAAAACGAGGTTGGGCCAGAT CTGATCCAGCAGAGGATATGTA
21036	I		S	GGCAGCCTTAATGTTGGCACAGCCAACACT
21036	P	C	S	ATGACGTGGCAGACGTGTCCCTTCCAGGCY
21036	P	T	S	CGCGCCGAGGATGTCCCTTCCAGGCY
21036	T	C	S	CGTGGCCTGGAAGGGACACGTGTTGGCTGTGCCAACATTAAGGCTGCCAT
21036	T	T	S	CGTGGCCTGGAAGGGACATGTGTTGGCTGTGCCAACATTAAGGCTGCCAT
21036	IS	[CT]		TACCCCACCACAGCTCCTCCCTCCAGCCACCCCTAAGCAGTCCGTGGCCTGGAAGGGACA[CT]GTGTTGGCTGTGCCAACATTAAGGCTGCCATTTCACTG GTTGGGGCTGCAGCCGTCAGCA
21040	I		A	CGTCTCTCTATTCCTCAACCAGAGTGGGCTGTT
21040	P	C	A	ATGACGTGGCAGACCAGTCTTTTTGAGGGACCY
21040	P	A	A	CGCGCCGAGGAAGTCTTTTTGAGGGACCY
21040	T	C	A	CACAGGTCCCTCAAAAAGACTGACAGCCCACTCTGGTTGAGGAATAGAGAGACGAT
21040	T	A	A	CACAGGTCCCTCAAAAAGACTTACAGCCCACTCTGGTTGAGGAATAGAGAGACGAT
21040	IS	[CA]		CAGGGAGAGGCCGTGCAGATACTGAGATCGTCTCTCTATTCCTCAACCAGAGTGGGCTGT[CA]AGTCTTTTTGAGGGACCTGTGCAAAAGAAATGCAAATTC CTGCAAACCCCAGATCTGGCA
21057	I		A	GGAGCCCCGCCTGGCTCTCAA
21057	P	T	A	CGCGCCGAGGTTGCATGTGGCCACY
21057	P	C	A	ATGACGTGGCAGACCTGCATGTGGCCACY
21057	T	T	A	CACAGTGGCCACATGCAATGAGAGCCAGGCGGGGCTCCCA
21057	T	C	A	CACAGTGGCCACATGCAGTGAGAGCCAGGCGGGGCTCCCA
21057	IS	[TC]		AACACCCCCACTCTCCCCACCCCGAACTCCAGAGCCCCTGGGAGCCCCGCCTGGCTCTCA[TC]TGCATGTGGCCACTGTGTCTGCCGTGTGCCTTGCCTG CCTGTTCCCTTCTCGTGTGAGCT
21081	I		S	CACTCACGCTCTGCAGAGTGGCCCT
21081	P	C	S	ATGACGTGGCAGACGTGCCCAGACAAAGGY
21081	P	T	S	CGCGCCGAGGATGCCCAGACAAAGGY
21081	T	C	S	GTTGCCTTTGTCTGGGCACGGGCCACTCTGCAGAGCGTGAGTGCA
21081	T	T	S	GTTGCCTTTGTCTGGGCATGGGCCACTCTGCAGAGCGTGAGTGCA
21081	IS	[CT]		CTATACCCAGGACCATGGTCATGATGGACGCGACAGGCCACAGTTGCCTTTGTCTGGGCA[CT]GGGCCACTCTGCAGAGCGTGAGTGCATGCTGCAGTCA CCCGAGTGCGCAGCCCATCAGCA
21206	I		S	CCTCTGGTAGACACCTACAGGACCCCAGCA
21206	P	A	S	CGCGCCGAGGTCTTATGAAGCTGACTCCAY
21206	P	G	S	ATGACGTGGCAGACCCTTATGAAGCTGACTCCY
21206	T	A	S	TTGGTGGAGTCAGCTTCATAAGAGCTGGGGTCCTGTAGGTGTCTACCAGAGGCT
21206	T	G	S	TTGGTGGAGTCAGCTTCATAAGGGCTGGGGTCCTGTAGGTGTCTACCAGAGGCT
21206	IS	[AG]		GGAGGGAAGCCGGTTTGGTCCGTGTGGGCCAGCGTGGTTTGGTGGAGTCAGCTTCATAAG[AG]GCTGGGGTCCTGTAGGTGTCTACCAGAGGCTGGTGG CTAAGTAGGCATGTGAACTTACAT
21262	I		A	TGTTGCATTTGAGGAAAGGGAGAAGATGAACATAGGTCTACAT

FIGURE 129E

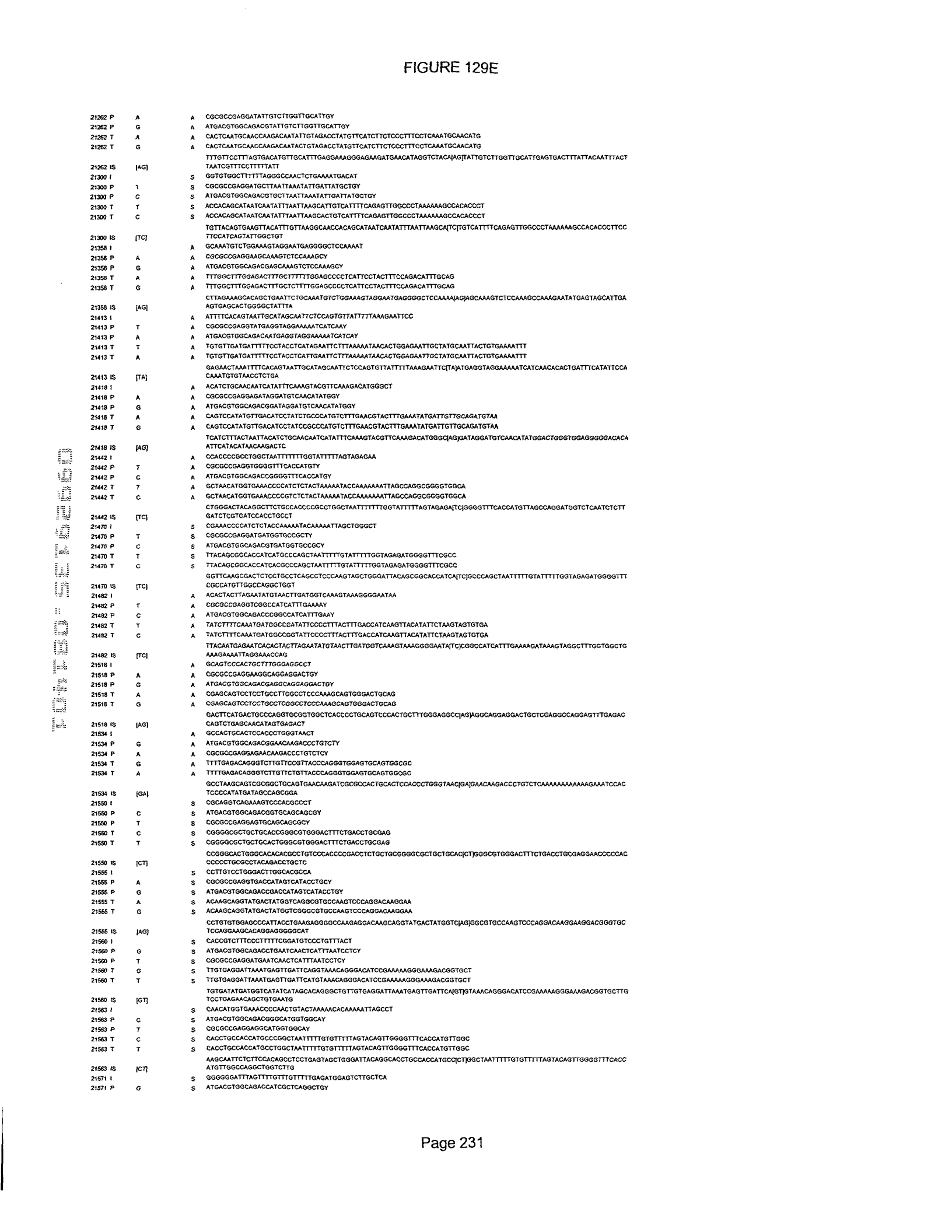
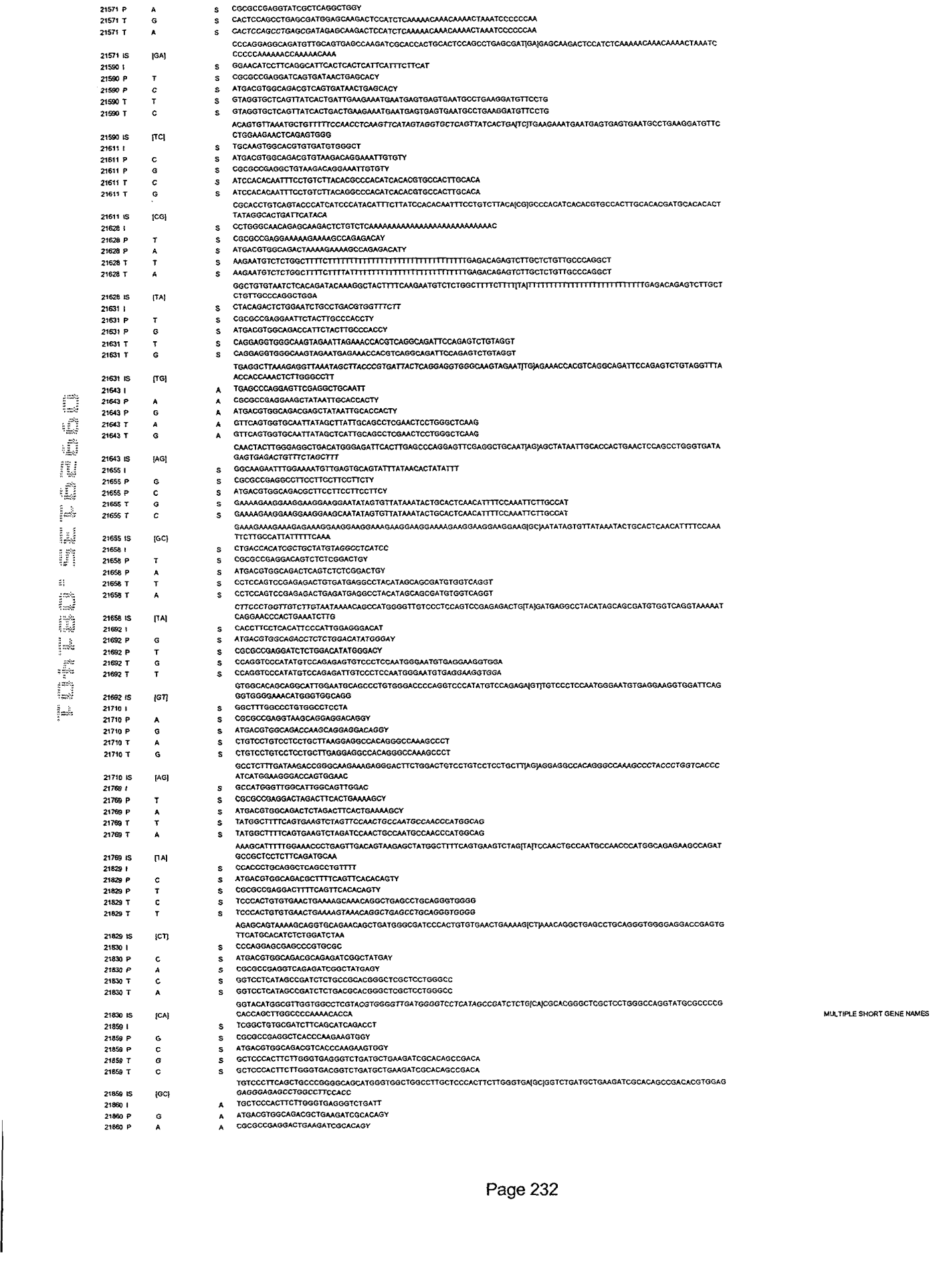

21262 P A A CGCGCCGAGGATATTGTCTTGGTTGCATTGY
21262 P G A ATGACGTGGCAGACGTATTGTCTTGGTTGCATTGY
21262 T A A CACTCAATGCAACCAAGACAATATTGTAGACCTATGTTCATCTTCTCCCTTTCCTCAAATGCAACATG
21262 T G A CACTCAATGCAACCAAGACAATACTGTAGACCTATGTTCATCTTCTCCCTTTCCTCAAATGCAACATG
21262 IS [AG] TTTGTTCCTTTAGTGACATGTTGCATTTGAGGAAAGGGAGAAGATGAACATAGGTCTACA[AG]TATTGTCTTGGTTGCATTGAGTGACTTTATTACAATTTACT TAATCGTTTCCTTTTTATT
21300 I S GGTGTGGCTTTTTTAGGGCCAACTCTGAAAATGACAT
21300 P T S CGCGCCGAGGATGCTTAATTAAATATTGATTATGCTGY
21300 P C S ATGACGTGGCAGACGTGCTTAATTAAATATTGATTATGCTGY
21300 T T S ACCACAGCATAATCAATATTTAATTAAGCATTGTCATTTTCAGAGTTGGCCCTAAAAAAGCCACACCCT
21300 T C S ACCACAGCATAATCAATATTTAATTAAGCACTGTCATTTTCAGAGTTGGCCCTAAAAAAGCCACACCCT
21300 IS [TC] TGTTACAGTGAAGTTACATTTGTTAAGGCAACCACAGCATAATCAATATTTAATTAAGCA[TC]TGTCATTTTCAGAGTTGGCCCTAAAAAAGCCACACCCTTCC TTCCATCAGTATTGGCTGT
21358 I A GCAAATGTCTGGAAAGTAGGAATGAGGGGCTCCAAAAT
21358 P A A CGCGCCGAGGAAGCAAAGTCTCCAAAGCY
21358 P G A ATGACGTGGCAGACGAGCAAAGTCTCCAAAGCY
21358 T A A TTTGGCTTTGGAGACTTTGCTTTTTTGGAGCCCCTCATTCCTACTTTCCAGACATTTGCAG
21358 T G A TTTGGCTTTGGAGACTTTGCTCTTTTGGAGCCCCTCATTCCTACTTTCCAGACATTTGCAG
21358 IS [AG] CTTAGAAAGCACAGCTGAATTCTGCAAATGTCTGGAAAGTAGGAATGAGGGGCTCCAAAA[AG]AGCAAAGTCTCCAAAGCCAAAGAATATGAGTAGCATTGA AGTGAGCACTGGGGCTATTTA
21413 I A ATTTTCACAGTAATTGCATAGCAATTCTCCAGTGTTATTTTTAAAGAATTCC
21413 P T A CGCGCCGAGGTATGAGGTAGGAAAAATCATCAAY
21413 P A A ATGACGTGGCAGACAATGAGGTAGGAAAAATCATCAY
21413 T T A TGTGTTGATGATTTTTCCTACCTCATAGAATTCTTTAAAAATAACACTGGAGAATTGCTATGCAATTACTGTGAAAATTT
21413 T A A TGTGTTGATGATTTTTCCTACCTCATTGAATTCTTTAAAAATAACACTGGAGAATTGCTATGCAATTACTGTGAAAATTT
21413 IS [TA] GAGAACTAAATTTTCACAGTAATTGCATAGCAATTCTCCAGTGTTATTTTTAAAGAATTC[TA]ATGAGGTAGGAAAAATCATCAACACACTGATTTCATATTCCA CAAATGTGTAACCTCTGA
21418 I A ACATCTGCAACAATCATATTTCAAAGTACGTTCAAAGACATGGGCT
21418 P A A CGCGCCGAGGAGATAGGATGTCAACATATGGY
21418 P G A ATGACGTGGCAGACGGATAGGATGTCAACATATGGY
21418 T A A CAGTCCATATGTTGACATCCTATCTGCCCATGTCTTTGAACGTACTTTGAAATATGATTGTTGCAGATGTAA
21418 T G A CAGTCCATATGTTGACATCCTATCCGCCCATGTCTTTGAACGTACTTTGAAATATGATTGTTGCAGATGTAA
21418 IS [AG] TCATCTTTACTAATTACATCTGCAACAATCATATTTCAAAGTACGTTCAAAGACATGGGC[AG]GATAGGATGTCAACATATGGACTGGGTGGAGGGGGACACA ATTCATACATAACAAGACTC
21442 I A CCACCCCGCCTGGCTAATTTTTTTGGTATTTTTAGTAGAGAA
21442 P T A CGCGCCGAGGTGGGGTTTCACCATGTY
21442 P C A ATGACGTGGCAGACCGGGGTTTCACCATGY
21442 T T A GCTAACATGGTGAAACCCCATCTCTACTAAAAATACCAAAAAAATTAGCCAGGCGGGGTGGCA
21442 T C A GCTAACATGGTGAAACCCCGTCTCTACTAAAAATACCAAAAAAATTAGCCAGGCGGGGTGGCA
21442 IS [TC] CTGGGACTACAGGCTTCTGCCACCCCGCCTGGCTAATTTTTTTGGTATTTTTAGTAGAGA[TC]GGGGTTTCACCATGTTAGCCAGGATGGTCTCAATCTCTT GATCTCGTGATCCACCTGCCT
21470 I S CGAAACCCCATCTCTACCAAAAATACAAAAATTAGCTGGGCT
21470 P T S CGCGCCGAGGATGATGGTGCCGCTY
21470 P C S ATGACGTGGCAGACGTGATGGTGCCGCY
21470 T T S TTACAGCGGCACCATCATGCCCAGCTAATTTTTGTATTTTTGGTAGAGATGGGGTTTCGCC
21470 T C S TTACAGCGGCACCATCACGCCCAGCTAATTTTTGTATTTTTGGTAGAGATGGGGTTTCGCC
21470 IS [TC] GGTTCAAGCGACTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGATTACAGCGGCACCATCA[TC]GCCCAGCTAATTTTTGTATTTTTGGTAGAGATGGGGTTT CGCCATGTTGGCCAGGCTGGT
21482 I A ACACTACTTAGAATATGTAACTTGATGGTCAAAGTAAAGGGGAATAA
21482 P T A CGCGCCGAGGTCGGCCATCATTTGAAAAY
21482 P C A ATGACGTGGCAGACCCGGCCATCATTTGAAAY
21482 T T A TATCTTTTCAAATGATGGCCGATATTCCCCTTTACTTTGACCATCAAGTTACATATTCTAAGTAGTGTGA
21482 T C A TATCTTTTCAAATGATGGCCGGTATTCCCCTTTACTTTGACCATCAAGTTACATATTCTAAGTAGTGTGA
21482 IS [TC] TTACAATGAGAATCACACTACTTAGAATATGTAACTTGATGGTCAAAGTAAAGGGGAATA[TC]CGGCCATCATTTGAAAAGATAAAGTAGGCTTTGGTGGCTG AAAGAAAATTAGGAAACCAG
21518 I A GCAGTCCCACTGCTTTGGGAGGCCT
21518 P A A CGCGCCGAGGAAGGCAGGAGGACTGY
21518 P G A ATGACGTGGCAGACGAGGCAGGAGGACTGY
21518 T A A CGAGCAGTCCTCCTGCCTTGGCCTCCCAAAGCAGTGGGACTGCAG
21518 T G A CGAGCAGTCCTCCTGCCTCGGCCTCCCAAAGCAGTGGGACTGCAG
21518 IS [AG] GACTTCATGACTGCCCAGGTGCGGTGGCTCACCCCTGCAGTCCCACTGCTTTGGGAGGCC[AG]AGGCAGGAGGACTGCTCGAGGCCAGGAGTTTGAGAC CAGTCTGAGCAACATAGTGAGACT
21534 I A GCCACTGCACTCCACCCTGGGTAACT
21534 P G A ATGACGTGGCAGACGGAACAAGACCCTGTCTY
21534 P A A CGCGCCGAGGAAGACAAGACCCTGTCTCY
21534 T G A TTTTGAGACAGGGTCTTGTTCCGTTACCCAGGGTGGAGTGCAGTGGCGC
21534 T A A TTTTGAGACAGGGTCTTGTTCTGTTACCCAGGGTGGAGTGCAGTGGCGC
21534 IS [GA] GCCTAAGCAGTCGCGGCTGCAGTGAACAAGATCGCGCCACTGCACTCCACCCTGGGTAAC[GA]GAACAAGACCCTGTCTCAAAAAAAAAAAAGAAATCCAC TCCCCATATGATAGCCAGCGGA
21550 I S CGCAGGTCAGAAAGTCCCACGCCCT
21550 P C S ATGACGTGGCAGACGGTGCAGCAGCGY
21550 P T S CGCGCCGAGGAGTGCAGCAGCGCY
21550 T C S CGGGGCGCTGCTGCACCGGGCGTGGGACTTTCTGACCTGCGAG
21550 T T S CGGGGCGCTGCTGCACTGGGCGTGGGACTTTCTGACCTGCGAG
21550 IS [CT] CCGGGCACTGGGCACACACGCCTGTCCCACCCCGACCTCTGCTGCGGGGCGCTGCTGCAC[CT]GGGCGTGGGACTTTCTGACCTGCGAGGAACCCCCAC CCCCCTGCGCCTACAGACCTGCTC
21555 I S CCTTGTCCTGGGACTTGGCACGCCA
21555 P A S CGCGCCGAGGTGACCATAGTCATACCTGCY
21555 P G S ATGACGTGGCAGACCGACCATAGTCATACCTGY
21555 T A S ACAAGCAGGTATGACTATGGTCAGGCGTGCCAAGTCCCAGGACAAGGAA
21555 T G S ACAAGCAGGTATGACTATGGTCGGGCGTGCCAAGTCCCAGGACAAGGAA
21555 IS [AG] CCTGTGTGGAGCCCATTACCTGAAGAGGGGCCAAGAGGACAAGCAGGTATGACTATGGTC[AG]GGCGTGCCAAGTCCCAGGACAAGGAAGGACGGGTGC TCCAGGAAGCACAGGAGGGGGCAT
21560 I S CACCGTCTTTCCCTTTTTCGGATGTCCCTGTTTACT
21560 P G S ATGACGTGGCAGACCTGAATCAACTCATTTAATCCTCY
21560 P T S CGCGCCGAGGATGAATCAACTCATTTAATCCTCY
21560 T G S TTGTGAGGATTAAATGAGTTGATTCAGGTAAACAGGGACATCCGAAAAAGGGAAAGACGGTGCT
21560 T T S TTGTGAGGATTAAATGAGTTGATTCATGTAAACAGGGACATCCGAAAAAGGGAAAGACGGTGCT
21560 IS [GT] TGTGATATGATGGTCATATCATAGCACAGGGCTGTTGTGAGGATTAAATGAGTTGATTCA[GT]GTAAACAGGGACATCCGAAAAAGGGAAAGACGGTGCTTG TCCTGAGAACAGCTGTGAATG
21563 I S CAACATGGTGAAACCCCAACTGTACTAAAAACACAAAAATTAGCCT
21563 P C S ATGACGTGGCAGACGGGCATGGTGGCAY
21563 P T S CGCGCCGAGGAGGCATGGTGGCAY
21563 T C S CACCTGCCACCATGCCCGGCTAATTTTTGTGTTTTTAGTACAGTTGGGGTTTCACCATGTTGGC
21563 T T S CACCTGCCACCATGCCTGGCTAATTTTTGTGTTTTTAGTACAGTTGGGGTTTCACCATGTTGGC
21563 IS [CT] AAGCAATTCTCTTCCACAGCCTCCTGAGTAGCTGGGATTACAGGCACCTGCCACCATGCC[CT]GGCTAATTTTTGTGTTTTTAGTACAGTTGGGGTTTCACC ATGTTGGCCAGGCTGGTCTTG
21571 I S GGGGGGATTTAGTTTTGTTTGTTTTTGAGATGGAGTCTTGCTCA
21571 P G S ATGACGTGGCAGACCATCGCTCAGGCTGY

FIGURE 129E



MULTIPLE SHORT GENE NAMES

FIGURE 129E

21859	T	G	A	TCGGCTGTGCGATCTTCAGCATCAGACCCTCACCCAAGAAGTGGGAGCAAG
21860	T	A	A	TCGGCTGTGCGATCTTCAGTATCAGACCCTCACCCAAGAAGTGGGAGCAAG
21860	IS	[GA]		AGCTGCCCGGGGCAGCATGGGTGGCTGGCCTTGCTCCCACTTCTTGGGTGAGGGTCTGAT[GA]CTGAAGATCGCACAGCCGACACGTGGAGGAGGGAGA GCCTGGCCTTCCACCTCCTGGCCA
21863	I		A	GATGTCTGCACATTTAACTAAGGGCCTCGCAGGA
21863	P	T	A	CGCGCCGAGGTTTGTTTTTCATATGATAAAACTGCY
21863	P	C	A	ATGACGTGGCAGACCTTGTTTTTCATATGATAAAACTGCY
21863	T	T	A	AAAAGCAGTTTTATCATATGAAAAACAAACCTGCGAGGCCCTTAGTTAAATGTGCAGACATCTC
21863	T	C	A	AAAAGCAGTTTTATCATATGAAAAACAAGCCTGCGAGGCCCTTAGTTAAATGTGCAGACATCTC
21863	IS	[TC]		TGGTGATATTCATTTGCCTCACAGGGAGATGTCTGCACATTTAACTAAGGGCCTCGCAGG[TC]TTGTTTTTCATATGATAAAACTGCTTTTCTTTCATGGAAC ATTCTGGCATGTCTAGACCT
21865	I		A	AGACTGTTCTGCCACTTGCTTTTCCCCCCT
21865	P	C	A	CGCGCCGAGGCACTTGACAGGGTATTTAGAAY
21865	P	G	A	ATGACGTGGCAGACGACTTGACAGGGTATTTAGAAAY
21865	T	C	A	ATGATTTCTAAATACCCTGTCAAGTGGGGGGGAAAAGCAAGTGGCAGAACAGTCTGA
21865	T	G	A	ATGATTTCTAAATACCCTGTCAAGTCGGGGGGAAAAGCAAGTGGCAGAACAGTCTGA
21865	IS	[CG]		AGACTTTTTGTTTTTTTATGAAAATGGGATCAGACTGTTCTGCCACTTGCTTTTCCCCCC[CG]ACTTGACAGGGTATTTAGAAATCATTTCATGTCAGCACCTT TATGTTATCTTTTTAAAAA
21906	I		S	CCGGCCAGACCTGCGGTTTCTTCTT
21906	P	G	S	CGCGCCGAGGCTGTCTCCGCGAGAGY
21906	P	C	S	ATGACGTGGCAGACGTGTCTCCGCGAGAY
21906	T	G	S	ACTGCTCTCGCGGAGACAGAGAAGAAACCGCAGGTCTGGCCGGCA
21906	T	C	S	ACTGCTCTCGCGGAGACACAGAAGAAACCGCAGGTCTGGCCGGCA
21906	IS	[GC]		CAAGAGATGAAAAACAGGCAGCCCACGCCGGCCATGCCGGTGACTGCTCTCGCGGAGACA[GC]AGAAGAAACCGCAGGTCTGGCCGGCAGCCAGGGTGA GAATCCCCAGCGCCAGGAACTGGG
21951	I		A	GAGTATGGGATGATGCCCAGGTCAGGGTGA
21951	P	C	A	ATGACGTGGCAGACCCCCAACGACAGGTY
21951	P	T	A	CGCGCCGAGGTCCCAACGACAGGTGY
21951	T	C	A	GATCCACCTGTCGTTGGGGCACCCTGACCTGGGCATCATCCCATACTCCC
21951	T	T	A	GATCCACCTGTCGTTGGGACACCCTGACCTGGGCATCATCCCATACTCCC
21951	IS	[CT]		CTGAGGGGCAGGCTGTTGAGTTGGGGGAGGGGAGTATGGGATGATGCCCAGGTCAGGGTG[CT]CCCAACGACAGGTGGATCAGAGAAGCAAGCCCATGG GCCCCATCAGCCGAGGGATGGCTC
21969	I		A	CCTTCCCTCATTTTCTGGCTCTCAATCCAAGTGACTGA
21969	P	T	A	CGCGCCGAGGTGGAGATTTTCCAAATATCAAGTY
21969	P	C	A	ATGACGTGGCAGACCGGAGATTTTCCAAATATCAAGY
21969	T	T	A	ATGAACTTGATATTTGGAAAATCTCCACAGTCACTTGGATTGAGAGCCAGAAAATGAGGGAAGGGG
21969	T	C	A	ATGAACTTGATATTTGGAAAATCTCCGCAGTCACTTGGATTGAGAGCCAGAAAATGAGGGAAGGGG
21969	IS	[TC]		CTAGAAGGGTTTCTCAAAGGACCCCTTCCCTCATTTTCTGGCTCTCAATCCAAGTGACTG[TC]GGAGATTTTCCAAATATCAAGTTCATTTGAAATAGGCCAC AATCCTTCAGATTGCCAAGT
21975	I		S	AGCCTGTTGGGATAAAGTGATTTTGTCATATCTTGGAGCAGTTTAA
21975	P	A	S	CGCGCCGAGGTTAGAAGGGTTCACAAGTTAAY
21975	P	G	S	ATGACGTGGCAGACCTAGAAGGGTTCACAAGTTAAY
21975	T	A	S	AAAGTTAACTTGTGAACCCTTCTAATAAACTGCTCCAAGATATGACAAAATCACTTTATCCCAACAGGCTCT
21975	T	G	S	AAAGTTAACTTGTGAACCCTTCTAGTAAACTGCTCCAAGATATGACAAAATCACTTTATCCCAACAGGCTCT
21975	IS	[AG]		GTGTTCTGTGGGTTACATCACCTTGTTTTTTATTCCAAAGTTAACTTGTGAACCCTTCTA[AG]TAAACTGCTCCAAGATATGACAAAATCACTTTATCCCAACA GGCTCTGAAGTTGTAAGAT
21976	I		A	CCACCCAAAATTAAACTTTTAATTCAGAAGGTCCCTACTTCCCAA
21976	P	T	A	CGCGCCGAGGTACCATTCTTATGTATAGCTTCAAY
21976	P	C	A	ATGACGTGGCAGACCACCATTCTTATGTATAGCTTCAY
21976	T	T	A	AAAATTGAAGCTATACATAAGAATGGTATGGGAAGTAGGGACCTTCTGAATTAAAAGTTTAATTTTGGGTGGGT
21976	T	C	A	AAAATTGAAGCTATACATAAGAATGGTGTGGGAAGTAGGGACCTTCTGAATTAAAAGTTTAATTTTGGGTGGGT
21976	IS	[TC]		TCTGTACCATTTGGACCCACCCAAAATTAAACTTTTAATTCAGAAGGTCCCTACTTCCCA[TC]ACCATTCTTATGTATAGCTTCAATTTTAAAATTCTGTTCAGA GATATTGTCTCATATGAT
21979	I		A	GAAATGAGGTAATACAGAAGGGATTGCTTTCTTCTCTCAT
21979	P	A	A	CGCGCCGAGGATCACAATTCTGAGTAGGTTTTY
21979	P	G	A	ATGACGTGGCAGACGTCACAATTCTGAGTAGGTTTTY
21979	T	A	A	TTTTAAAACCTACTCAGAATTGTGATTGAGAGAAGAAAGCAATCCCTTCTGTATTACCTCATTTCTA
21979	T	G	A	TTTTAAAACCTACTCAGAATTGTGACTGAGAGAAGAAAGCAATCCCTTCTGTATTACCTCATTTCTA
21979	IS	[AG]		AGAAATTCTGTTTTGATGATAGAAATGAGGTAATACAGAAGGGATTGCTTTCTTCTCTCA[AG]TCACAATTCTGAGTAGGTTTTAAAAGCAGAGAGGCTAAAA ATGTTTACATATTTTCAGTT
21980	I		S	CAAGATGGCCTGAAATGTGTTAGCCTGCCTTACCT
21980	P	T	S	CGCGCCGAGGATGTCCTCTGCAGAGCY
21980	P	C	S	ATGACGTGGCAGACGTGTCCTCTGCAGAGCY
21980	T	T	S	TGCTGCTCTGCAGAGGACATGGTAAGGCAGGCTAACACATTTCAGGCCATCTTGCA
21980	T	C	S	TGCTGCTCTGCAGAGGACACGGTAAGGCAGGCTAACACATTTCAGGCCATCTTGCA
21980	IS	[TC]		ATACGCAGCCTGGGAATCCACGCCTAAGCCTTTCTGCAGGCTGCTGCTCTGCAGAGGACA[TC]GGTAAGGCAGGCTAACACATTTCAGGCCATCTTGCACT TTCTGTCAATCTCTTGGTACTG
21987	I		A	CAGACCGGGAAAGGGGGCAGGGT
21987	P	A	A	CGCGCCGAGGAAGGGGCCAAGGATCY
21987	P	C	A	ATGACGTGGCAGACCAGGGGCCAAGGATY
21987	T	A	A	TCTGGATCCTTGGCCCCTTCCCTGCCCCCTTTCCCGGTCTGTC
21987	T	C	A	TCTGGATCCTTGGCCCCTGCCCTGCCCCCTTTCCCGGTCTGTC
21987	IS	[AC]		CTTTCTTTCTGTTTGGGGAGGGAGGGATGTGGGAAGGACAGACCGGGAAAGGGGGCAGGG[AC]AGGGGCCAAGGATCCAGAGGGCTTTGTTTCAAGCCG CTTGTCTCTCCCCCGAAACAGAGA
21992	I		A	AGCACCGTCAACATGCCATTATTCATCCTGTCTCAC
21992	P	T	A	CGCGCCGAGGTGGTTCTCTTATATCTGATAAGCY
21992	P	G	A	ATGACGTGGCAGACGGGTTCTCTTATATCTGATAAGCY
21992	T	T	A	CATCGCTTATCAGATATAAGAGAACCATGAGACAGGATGAATAATGGCATGTTGACGGTGCTTT
21992	T	G	A	CATCGCTTATCAGATATAAGAGAACCCTGAGACAGGATGAATAATGGCATGTTGACGGTGCTTT
21992	IS	[TG]		GCTCTGACAAAAATACCATAAGGAAAGCACCGTCAACATGCCATTATTCATCCTGTCTCA[TG]GGTTCTCTTATATCTGATAAGCGATGTCAAGAACTAACAT CCATGTTCCATCTTAGTCAA
22010	I		S	CCTTCCCTTCCCTTCCCTTCCATCTCTTCCTTTCT
22010	P	G	S	CGCGCCGAGGCTTTCCTTTCTTTTCTTTTGCTY
22010	P	C	S	ATGACGTGGCAGACGTTTCCTTTCTTTTCTTTTGCTY
22010	T	G	S	GGAAAGCAAAAGAAAAGAAAGGAAAGGAAAGGAAGAGATGGAAGGGAAGGGAAGGGAAGGGG
22010	T	C	S	GGAAAGCAAAAGAAAAGAAAGGAAACGAAAGGAAGAGATGGAAGGGAAGGGAAGGGAAGGGG
22010	IS	[GC]		CTTATGAAAAGGAAAGAAAAGGGAAAAAAAGGAAAGGAAAGCAAAAGAAAAGAAAGGAAA[GC]GAAAGGAAGAGATGGAAGGGAAGGGAAGGGAAGGGGAA AGGAAAGAAAATGAAAGGAAAG
22011	I		S	TGCCATGATACAGTGGCCACTATCACCAA
22011	P	G	S	ATGACGTGGCAGACCTGTCTGATCCTTCACAGY
22011	P	A	S	CGCGCCGAGGTTGTCTGATCCTTCACAGY
22011	T	G	S	CATCCTGTGAAGGATCAGACAGTGGTGATAGTGGCCACTGTATCATGGCATT
22011	T	A	S	CATCCTGTGAAGGATCAGACAATGGTGATAGTGGCCACTGTATCATGGCATT
22011	IS	[GA]		GGAATCAGAAACCTTCTGGCTGAGAGGGACACGGAGACACATCCTGTGAAGGATCAGACA[GA]TGGTGATAGTGGCCACTGTATCATGGCATTAAATTGTA AGCTATCATGCTTCCAGAATAA
22064	I		A	GAATGTACTGCATTCCAAAGTGCTTTTGTGCAAATAGT
22064	P	C	A	ATGACGTGGCAGACCAAAATAGCATTTCTCTTGGAAY
22064	P	A	A	CGCGCCGAGGAAAAATAGCATTTCTCTTGGAAAY
22064	T	C	A	CATTTTTCCAAGAGAAATGCTATTTTGCTATTTGCACAAAAGCACTTTGGAATGCAGTACATTCAT

ARSD

FIGURE 129E

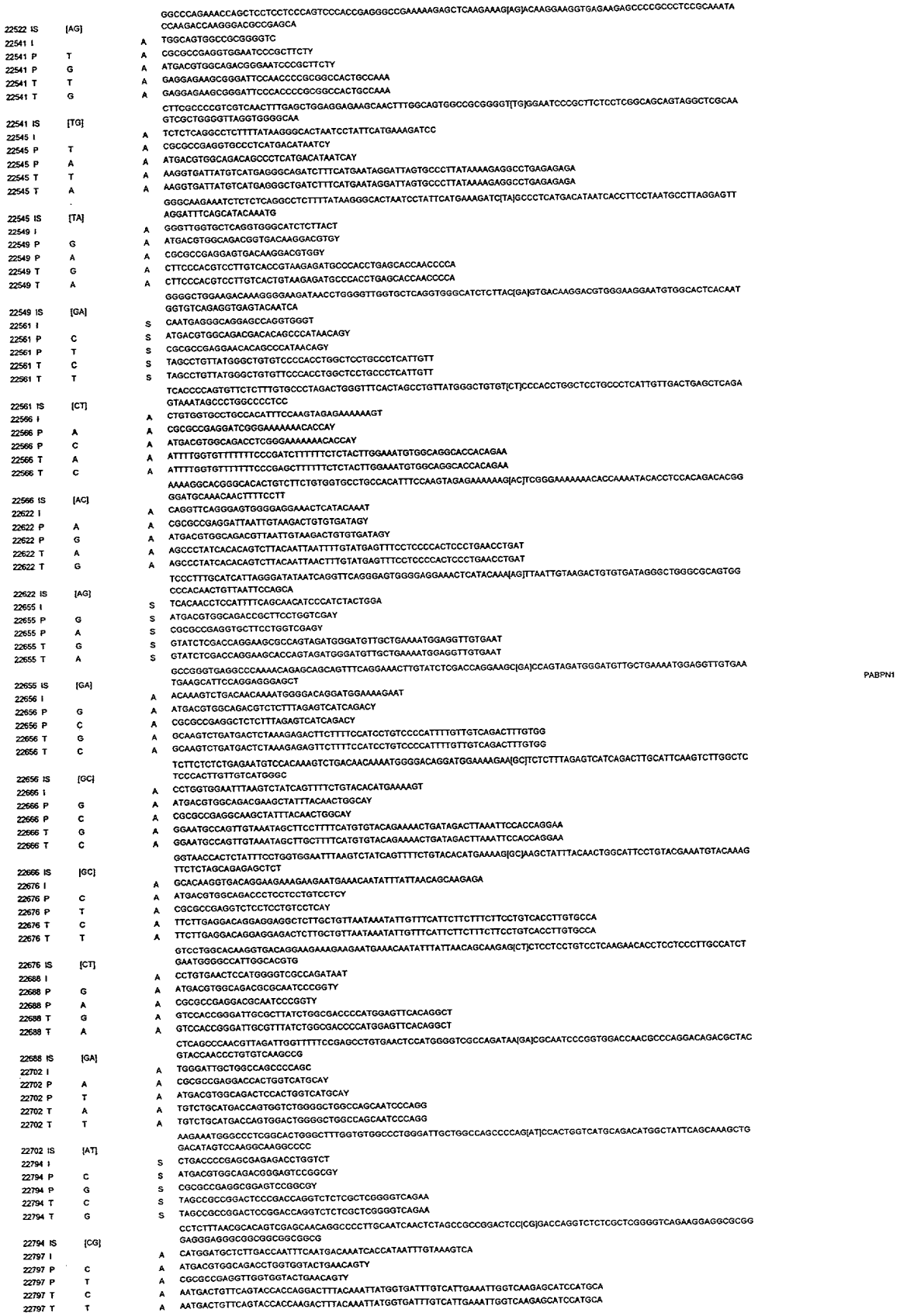
22064 T	A	A	CATTTTTCCAAGAGAAATGCTATTTTTCTATTTGCACAAAAGCACTTTGGAATGCAGTACATTCAT
22064 IS	[CA]		ACTGGGGGTATTCAATAATGAATGAATGTACTGCATTCCAAAGTGCTTTTGTGCAAATAG[CA]AAAATAGCATTTCTCTTGGAAAAATGGCCTATGGACTCTTCCTAAACAAAGCATGACTAA
22065 I		S	CCCCAGGCAACCCACATTAAATTGTGATGTAAGAATGAAATAAGTTACTATTTA
22066 P	A	S	CGCGCCGAGGTTGTTAAGCTATTGAGATACTGTY
22066 P	G	S	ATGACGTGGCAGACCTGTTAAGCTATTGAGATACTGTY
22066 T	A	S	ACACACAGTATCTCAATAGCTTAACAAAAATAGTAACTTATTTCATTCTTACATCACAATTTAATGTGGGTTGCCTGGGGAG
22066 T	G	S	ACACACAGTATCTCAATAGCTTAACAGAAATAGTAACTTATTTCATTCTTACATCACAATTTAATGTGGGTTGCCTGGGGAG
22066 IS	[AG]		CACCCTCCCCCCCACCCCCACCCCCCCCACACACACACAGTATCTCAATAGCTTAACA[AG]AAATAGTAACTTATTTCATTCTTACATCACAATTTAATGTGGGTTGCCTGGGGAGTGGAA
22077 I		A	CGGACTGGACTATAAGGGCAACAAATTCAAGGCCA
22077 P	C	A	ATGACGTGGCAGACCTCTTCTCTATATCACTTCTAGGY
22077 P	T	A	CGCGCCGAGGTTCTTCTCTATATCACTTCTAGGY
22077 T	C	A	GTAGCCTAGAAGTGATATAGAGAAGAAGGGCCTTGAATTTGTTGCCCTTATAGTCCAGTCCGCA
22077 T	T	A	GTAGCCTAGAAGTGATATAGAGAAGAAGGCCTTGAATTTGTTGCCCTTATAGTCCAGTCCGCA
22077 IS	[CT]		TCCTGTGGCAGAGTTGAGCAGATTTGCGGACTGGACTATAAGGGCAACAAATTCAAGGCC[CT]TCTTCTCTATATCACTTCTAGGCTACTCCCTGAGGTCCTGTGACTGAAAAATGAGGCCCC
22079 I		S	TGGTGCCAATGAGGTTGGAATTATGAGTGCAATCCTACT
22079 P	C	S	ATGACGTGGCAGACGTATGCTTCTAAGGAGTGCY
22079 P	T	S	CGCGCCGAGGATATGCTTCTAAGGAGTGCY
22079 T	C	S	GCCAGCACTCCTTAGAAGCATACGTAGGATTGCACTCATAATTCCAACCTCATTGGCACCAGA
22079 T	T	S	GCCAGCACTCCTTAGAAGCATATGTAGGATTGCACTCATAATTCCAACCTCATTGGCACCAGA
22079 IS	[CT]		CAATCTTTCCACAGGTCCCCCATGTGACTAGTTAAGTAGCCAGCACTCCTTAGAAGCATA[CT]GTAGGATTGCACTCATAATTCCAACCTCATTGGCACCAGAGTCCGACCAACTGAGCTAAT
22081 I		S	CAGGGGGCAGGGGTGGAAAAGCTTA
22081 P	A	S	CGCGCCGAGGTGTACAGGAATTGTGGAAAAY
22081 P	G	S	ATGACGTGGCAGACCGTACAGGAATTGTGGAAAY
22081 T	A	S	AAGCTTTTCCACAATTCCTGTACAAAGCTTTTCCACCCCTGCCCCCTGCC
22081 T	G	S	AAGCTTTTCCACAATTCCTGTACGAAGCTTTTCCACCCCTGCCCCCTGCC
22081 IS	[AG]		ACTGAGAAATGTGACTTTCAGACTAGAGATAATGCAAAAGCTTTTCCACAATTCCTGTAC[AG]AAGCTTTTCCACCCCTGCCCCCTGCCACCTGCTTTCCCATTCATAGGAAAATTTCTTGCT
22104 I		A	CCTTCCAGGTGAACTGATGCTCAAGTTAGAGAACCATCT
22104 P	A	A	CGCGCCGAGGAATCTCGGATTGTAAATCCCY
22104 P	G	A	ATGACGTGGCAGACGATCTCGGATTGTAAATCCCY
22104 T	A	A	AACTGGGATTTACAATCCGAGATTGATGGTTCTCTAACTTGAGCATCAGTTCACCTGGAAGGCT
22104 T	G	A	AACTGGGATTTACAATCCGAGATCGATGGTTCTCTAACTTGAGCATCAGTTCACCTGGAAGGCT
22104 IS	[AG]		CCCAGAAGTCTGTCCTCACAAGCCTTCCAGGTGAACTGATGCTCAAGTTAGAGAACCATC[AG]ATCTCGGATTGTAAATCCCAGTTTCCTCATCTATTAAATAATAATAGGATTATTGTGAGG
22111 I		S	CCACCTCACCTGGCTAATTTTTGTATTTTTAGTAGAGACGAGGTTTA
22111 P	G	S	ATGACGTGGCAGACCGCCATGTTGGTCAGY
22111 P	A	S	CGCGCCGAGGTGCCATGTTGGTCAGGY
22111 T	G	S	CCAGCCTGACCAACATGGCGAAACCTCGTCTCTACTAAAAATACAAAAATTAGCCAGGTGAGGTGGCA
22111 T	A	S	CCAGCCTGACCAACATGGCAAAACCTCGTCTCTACTAAAAATACAAAAATTAGCCAGGTGAGGTGGCA
22111 IS	[GA]		AGGCTGAGGTGGGTGGATCACTTGAAGTTAGGAGTTCAAGACCAGCCTGACCAACATGGC[GA]AAACCTCGTCTCTACTAAAAATACAAAAATTAGCCAGGTGAGGTGGCAGGCACCTATAAT
22135 I		A	CCCCGCTGGCTGTGAATCCAGTCCAAT
22135 P	G	A	ATGACGTGGCAGACGTGCGTGCAAATTATGCY
22135 P	C	A	CGCGCCGAGGCTGCGTGCAAATTATGCY
22135 T	G	A	AAAGGCATAATTTGCACGCACTTGGACTGGATTCACAGCCAGCGGGGCA
22135 T	C	A	AAAGGCATAATTTGCACGCAGTTGGACTGGATTCACAGCCAGCGGGGCA
22135 IS	[GC]		CTCTCAGTTCTCATTTTGTGCTTTTTCCATCATGCCCCGCTGGCTGTGAATCCAGTCCAA[GC]TGCGTGCAAATTATGCCTTTGCTTTATATTTACTGAGCAACAACTATGTGCCGCAACAGA
22139 I		S	CCTAAACTTGGGAGTAATCCTTGTCTCCCTTCATTCACTCCT
22139 P	C	S	ATGACGTGGCAGACGTGTCTCGGTTGCCAY
22139 P	T	S	CGCGCCGAGGATGTCTCGGTTGCCAY
22139 T	C	S	GAGGTGGCAACCGAGACACGGAGTGAATGAAGGGAGACAAGGATTACTCCCAAGTTTAGGGC
22139 T	T	S	GAGGTGGCAACCGAGACATGGAGTGAATGAAGGGAGACAAGGATTACTCCCAAGTTTAGGGC
22139 IS	[CT]		AAACAACTGACGCAGCTACAAGGCCGAGCTTAGACTCAACAGGAGGTGGCAACCGAGACA[CT]GGAGTGAATGAAGGGAGACAAGGATTACTCCCAAGTTTAGGGCCTGAACGGCGTAGAGCT
22156 I		S	AGTTAGGCCAGATTAACAGATGTGGGATGCCATATAATGACTTTGA
22156 P	G	S	ATGACGTGGCAGACCCTTCAAGTGAAACTGCAY
22156 P	A	S	CGCGCCGAGGTCTTCAAGTGAAACTGCAGY
22156 T	G	S	TGGACTGCAGTTTCACTTGAAGGCAAAGTCATTATATGGCATCCCACATCTGTTAATCTGGCCTAACTAA
22156 T	A	S	TGGACTGCAGTTTCACTTGAAGACAAAGTCATTATATGGCATCCCACATCTGTTAATCTGGCCTAACTAA
22156 IS	[GA]		GGGTTTTGAGGAGGCCAATGTCTGGGGCCTGCTCCCATTGGACTGCAGTTTCACTTGAAG[GA]CAAAGTCATTATATGGCATCCCACATCTGTTAATCTGGCCTAACTAACGCCTCCCATGTT
22166 I		A	CGCAGGACTGTCTGCAAGAAGGAACAAGAAAAGTTATTCAA
22166 P	C	A	ATGACGTGGCAGACCAGCATCACACCACGY
22166 P	T	A	CGCGCCGAGGTAGCATCACACCACGAY
22166 T	C	A	CCTTTCGTGGTGTGATGCTGTGAATAACTTTTCTTGTTCCTTCTTGCAGACAGTCCTGCGCA
22166 T	T	A	CCTTTCGTGGTGTGATGCTATGAATAACTTTTCTTGTTCCTTCTTGCAGACAGTCCTGCGCA
22166 IS	[CT]		GGCTGCTCGCCCCCAAATTGCGCAGGACTGTCTGCAAGAAGGAACAAGAAAAGTTATTCA[CT]AGCATCACACCACGAAAGGTAGTTGCGTACCGCCCAACAGGGCCCTCTCCAAACACGGCA
22211 I		S	GCTCCGCTGTGGAGCGGGGAA
22211 P	G	S	ATGACGTGGCAGACCAAGTCGCTCCACTCAY
22211 P	A	S	CGCGCCGAGGTAAGTCGCTCCACTCAAY
22211 T	G	S	GGCGTTGAGTGGAGCGACTTGTCCCCGCTCCACAGCGGAGCAC
22211 T	A	S	GGCGTTGAGTGGAGCGACTTATCCCCGCTCCACAGCGGAGCAC
22211 IS	[GA]		ACCGGGCCAGGGATGGGGCAATGCCACGAGCTCTCTGAGGGGCGTTGAGTGGAGCGACTT[GA]TCCCCGCTCCACAGCGGAGCACCAGCCCAGTGGACACCCCTGGGTGTGAATATGGACAGC
22242 I		S	GCAGAGTCTTGACCAGACTTGGTATTTTGGAACCCAGT
22242 P	G	S	ATGACGTGGCAGACCTGCCATTCGGTGAGY
22242 P	T	S	CGCGCCGAGGATGCCATTCGGTGAGGY
22242 T	G	S	GCTCCCTCACCGAATGGCAGCTGGGTTCCAAAATACCAAGTCTGGTCAAGACTCTGCCT
22242 T	T	S	GCTCCCTCACCGAATGGCATCTGGGTTCCAAAATACCAAGTCTGGTCAAGACTCTGCCT
22242 IS	[GT]		TCAGATGCTCTCCCTGTGGTCACCCCATGCATCCAGCTTGAGCTCCCTCACCGAATGGCA[GT]CTGGGTTCCAAAATACCAAGTCTGGTCAAGACTCTGCCTACATCACACTTGCTAATGCCC
22244 I		A	AGGTTGGAAGAGGGGACGCATGCCATT
22244 P	G	A	ATGACGTGGCAGACGGACCCAGCACACAY
22244 P	A	A	CGCGCCGAGGAGACCCAGCACACAGY
22244 T	G	A	CCAGCTGTGTGCTGGGTCCATGGCATGCGTCCCCTCTTCCAACCTCC
22244 T	A	A	CCAGCTGTGTGCTGGGTCTATGGCATGCGTCCCCTCTTCCAACCTCC
22244 IS	[GA]		GGGCTGACCTGCCCCCCACCTTCTGGAAGCTGGGAGGTTGGAAGAGGGGACGCATGCCAT[GA]GACCCAGCACACAGCTGGGAACTCGAGGCACACCTAAGCCTTCCCTTGTGCTGTGCGGAG
22298 I		A	TGGGCACAGCCCCCAGGCCA
22298 P	C	A	ATGACGTGGCAGACCTGGCTTCCCTGCTY
22298 P	T	A	CGCGCCGAGGTTGGCTTCCCTGCTY
22298 T	C	A	ACTCAGCAGGGAAGCCAGGGCCTGGGGGCTGTGCCCAAT
22298 T	T	A	ACTCAGCAGGGAAGCCAAGGCCTGGGGGCTGTGCCCAAT

Exhibit 1015, page 1015 of 1350

FIGURE 129E


CTGAGGGGAGGAGGCTGAAGACTGGTTAGAAGCTAGGCCATTGGGCACAGCCCCCAGGCC[CT]TGGCTTCCCTGCTGAGTCAGGGGTTGGGGTGGTGGT
22298 IS [CT] GGTAAGGCAGCCTTTCCCACAAGT
22301 I S GCTAGACTCCGTCTCAAAAAAAAGAAAAAGAAAAATTTTGTTTAAGGAGCCATT
22301 P T S CGCGCCGAGGACCGTAAGTCACAAAGGTY
22301 P C S ATGACGTGGCAGACGCCGTAAGTCACAAAGGY
22301 T T S GAATACCTTTGTGACTTACGGTATGGCTCCTTAAACAAAATTTTTCTTTTTCTTTTTTTTGAGACGGAGTCTAGCTC
22301 T C S GAATACCTTTGTGACTTACGGCATGGCTCCTTAAACAAAATTTTTCTTTTTCTTTTTTTTGAGACGGAGTCTAGCTC
TGAGGTAAAACCATAACATGACCAGAAGAAAATGAACGCGAATACCTTTGTGACTTACGG[TC]ATGGCTCCTTAAACAAAATTTTTCTTTTTCTTTTTTTTGA
22301 IS [TC] GACGGAGTCTAGCTCTGTT
22302 I A CCTCCTACCTGCCCCCATCTCAGCTT
22302 P C A ATGACGTGGCAGACCTCTGTGAAGTCTTGGCY
22302 P A A CGCGCCGAGGATCTGTGAAGTCTTGGCTY
22302 T C A AAGGAGCCAAGACTTCACAGAGAGCTGAGATGGGGGCAGGTAGGAGGGG
22302 T A A AAGGAGCCAAGACTTCACAGATAGCTGAGATGGGGGCAGGTAGGAGGGG
ATAGAGACAGGAACGGTTATTGATGAGCGAGTCCCCCTCCTACCTGCCCCCATCTCAGCT[CA]TCTGTGAAGTCTTGGCTCCTTTTCCCCACGCAGGCTTCC
22302 IS [CA] CTGATGCAGCCCGTCCTTGCT
22305 I S TCTCTTTTGGCAAAAACTCTTTTTCCTACCCGATGTTACACT
22305 P T S CGCGCCGAGGACAAAATGTAGACATGGTGTAY
22305 P C S ATGACGTGGCAGACGCAAAATGTAGACATGGTGY
22305 T T S AATATACACCATGTCTACATTTTGTGTGTAACATCGGGGTAGGAAAAAGAGTTTTTGCCAAAAGAGAAA
22305 T C S AATATACACCATGTCTACATTTTGCGTGTAACATCGGGGTAGGAAAAAGAGTTTTTGCCAAAAGAGAAA
CAAAATAAGCATAAGAACCTTAAACGAAGATTACGCAATATACACCATGTCTACATTTTG[TC]GTGTAACATCGGGGTAGGAAAAAGAGTTTTTGCCAAAAGA
22305 IS [TC] GAAAAAAAGTACCACACACA
22322 I S AGTAAAGTACCTAATTTGATTATCCATTTGCAGGATTTCTTTTTATTTTTGAGAA
22322 P G S ATGACGTGGCAGACCGGAGTCTCGCTCTGY
22322 P A S CGCGCCGAGGTGGAGTCTCGCTCTGY
22322 T G S GCCGCAGAGCGAGACTCCGTCTCAAAAATAAAAAGAAATCCTGCAAATGGATAATCAAATTAGGTACTTTACTGA
22322 T A S GCCGCAGAGCGAGACTCCATCTCAAAAATAAAAAGAAATCCTGCAAATGGATAATCAAATTAGGTACTTTACTGA
GTTTGCAGTGAGCCGAGATCACGCCACTGCACTCCAGCCTGGGCCGCAGAGCGAGACTCC[GA]TCTCAAAAATAAAAAGAAATCCTGCAAATGGATAATCA
22322 IS [GA] AATTAGGTACTTTACTGAGTGC
22374 I A TGATATGGCAGGACCTCAGGCACTCTGACAT
22374 P A A CGCGCCGAGGAGCCCAGAGGGCTY
22374 P G A ATGACGTGGCAGACGGCCCAGAGGGCY
22374 T A A AACCAGCCCTCTGGGCTTGTCAGAGTGCCTGAGGTCCTGCCATATCACT
22374 T G A AACCAGCCCTCTGGGCCTGTCAGAGTGCCTGAGGTCCTGCCATATCACT
TTCAGTCTGTGAACACTCAGGACTGGGAAGTGATATGGCAGGACCTCAGGCACTCTGACA[AG]GCCCAGAGGGCTGGTTTCTTGCGGGAGAGCAGTAGAT
22374 IS [AG] TTGGCTGCCAAGGTGCTTAACTG
22402 I S GACTTTGCAGGTCCAAGGATACCCCTTCCATGT
22402 P C S ATGACGTGGCAGACGCTATAACTCAGTGTTCGATY
22402 P T S CGCGCCGAGGACTATAACTCAGTGTTCGATCY
22402 T C S CCTTGATCGAACACTGAGTTATAGCCATGGAAGGGGTATCCTTGGACCTGCAAAGTCAG
22402 T T S CCTTGATCGAACACTGAGTTATAGTCATGGAAGGGGTATCCTTGGACCTGCAAAGTCAG
GGGGAAATTGAGGCCCAGAGAGGTGCAGTGCTCTGCCCTTGATCGAACACTGAGTTATAG[CT]CATGGAAGGGGTATCCTTGGACCTGCAAAGTCAGCATT
22402 IS [CT] ACTCATCTGAATTCTGCCTCTG
22428 I S GATTCTCCTGCCTCAGCTTCCTGAATAGCTGGAATTACT
22428 P T S CGCGCCGAGGAGGCGTGCACCACY
22428 P C S ATGACGTGGCAGACGGGCGTGCACCAY
22428 T T S CTTGGTGGTGCACGCCTGTAATTCCAGCTATTCAGGAAGCTGAGGCAGGAGAATCAC
22428 T C S CTTGGTGGTGCACGCCCGTAATTCCAGCTATTCAGGAAGCTGAGGCAGGAGAATCAC
AGGGTGAAACCCCGTCTCTGCTGAAAATACAAAAATTAGCTGGGCTTGGTGGTGCACGCC[TC]GTAATTCCAGCTATTCAGGAAGCTGAGGCAGGAGAATC
22428 IS [TC] ACTTGAACCTGGGAGGTGGAGG
22431 I A GGCTTCTGAGTTTATGTAGGAGTCATCCTTCTCTTAAAATTTGC
22431 P T A CGCGCCGAGGTCTTCTCCCATGATTCTGTY
22431 P G A ATGACGTGGCAGACGCTTCTCCCATGATTCTGY
22431 T T A ATATACAGAATCATGGGAGAAGACAAATTTTAAGAGAAGGATGACTCCTACATAAACTCAGAAGCCAT
22431 T G A ATATACAGAATCATGGGAGAAGCCAAATTTTAAGAGAAGGATGACTCCTACATAAACTCAGAAGCCAT
TTTTTTCTTCACATTATGGCTTCTGAGTTTATGTAGGAGTCATCCTTCTCTTAAAATTG[TG]CTTCTCCCATGATTCTGTATATTTTTTCTTTTTTAATGTCCC
22431 IS [TG] AAGTTTACTTCCATCTG
22451 I S CTCATTTTAGTGGGGTTTGGGGATGAAGTACTGATAAATATAGA
22451 P A S CGCGCCGAGGTGCAGTACACCATATTTAGTTY
22451 P G S ATGACGTGGCAGACCGCAGTACACCATATTTAGTY
22451 T A S TGTCAACTAAATATGGTGTACTGCACTATATTTATCAGTACTTCATCCCCAAACCCCACTAAAATGAGAA
22451 T G S TGTCAACTAAATATGGTGTACTGCGCTATATTTATCAGTACTTCATCCCCAAACCCCACTAAAATGAGAA
GGAGGTAATAAAAGCAGAAGACAGCTTTAAAAATTATGTCAACTAAATATGGTGTACTGC[AG]CTATATTTATCAGTACTTCATCCCCAAACCCCACTAAAATG
22451 IS [AG] AGAATGAATGAATATAAAA
22452 I A TGTTTAAGCCTCCTTGACTAGTAGATTTTTACCCTTTACCACTGCT
22452 P A A CGCGCCGAGGATGTCTGTGTGGCTTGY
22452 P C A ATGACGTGGCAGACCTGTCTGTGTGGCTTGY
22452 T A A CCTCCAAGCCACACAGACATGCAGTGGTAAAGGGTAAAAATCTACTAGTCAAGGAGGCTTAAACACA
22452 T C A CCTCCAAGCCACACAGACAGGCAGTGGTAAAGGGTAAAAATCTACTAGTCAAGGAGGCTTAAACACA
ATTGGCCAAACGCTGTGTTTAAGCCTCCTTGACTAGTAGATTTTTACCCTTTACCACTGC[AC]TGTCTGTGTGGCTTGGAGGCTGCTATCACACCACTCAGAA
22452 IS [AC] AGTTTATGTTTTTGTCCTAT
22453 I S ACATGTATCCCTGGCAGTCTGGAAGACTTGT
22453 P C S ATGACGTGGCAGACGTGCATCCTTGCTGGY
22453 P G S CGCGCCGAGGCTGCATCCTTGCTGGY
22453 T C S CACTCCAGCAAGGATGCACCAAGTCTTCCAGACTGCCAGGGATACATGTAA
22453 T G S CACTCCAGCAAGGATGCAGCAAGTCTTCCAGACTGCCAGGGATACATGTAA
TGCTCATTCGGAGACTAGCAGCTTGCTTGTTCCCTTCTCAATCACTCCAGCAAGGATGCA[CG]CAAGTCTTCCAGACTGCCAGGGATACATGTAATTTTCAT
22453 IS [CG] GTCTGGCTTCCTAAGAGTTGC
22464 I S GGTGTCTCGCTTGGTCCCCTCTCCTGAC
22464 P A S CGCGCCGAGGTGCCCTCCCATGY
22464 P C S ATGACGTGGCAGACGGCCCTCCCCATGY
22464 T A S TGTCCATGGGGAGGGCATCAGGAGAGGGGACCAAGCGAGACACCCT
22464 T C S TGTCCATGGGGAGGGCCTCAGGAGAGGGGACCAAGCGAGACACCCT
GAAGGAGTGGCTTGCCTAGTGGCTGTCGTGCTGCACTGCACCTGTGTCCATGGGGAGGGC[AC]TCAGGAGAGGGGACCAAGCGAGACACCCTCGGGGCC
22464 IS [AC] TAGCTTTGCCCTCCTCCACCGGAA
22483 I S GGACCAGAGGTGACATCCCCACCTCTTCTT
22483 P G S CGCGCCGAGGCCCTGACTCCCCAAATY
22483 P C S ATGACGTGGCAGACGCCTGACTCCCCAAAY
22483 T G S TGAAATTTGGGGAGTCAGGGAGAAGAGGTGGGGATGTCACCTCTGGTCCCC
22483 T C S TGAAATTTGGGGAGTCAGGCAGAAGAGGTGGGGATGTCACCTCTGGTCCCC
CTGGGATGAGAAGTCAGGGTTATAGAGTCAGAGTCATCATCTGAAATTTGGGGAGTCAGG[GC]AGAAGAGGTGGGGATGTCACCTCTGGTCCCCACACCT
22483 IS [GC] GGTCTAAGTCCCCATGCTGATCT
22522 I A CCACCGAGGGCCGAAAAAGAGCTCAAGAAAGT
22522 P A A CGCGCCGAGGAACAAGGAAGGTGAGAAGAY
22522 P G A ATGACGTGGCAGACGACAAGGAAGGTGAGAAGY
22522 T A A GGGCTCTTCTCACCTTCCTTGTTCTTTCTTGAGCTCTTTTTCGGCCCTCGGTGGGA
22522 T G A GGGCTCTTCTCACCTTCCTTGTCCTTTCTTGAGCTCTTTTTCGGCCCTCGGTGGGA

FIGURE 129E



PABPN1

FIGURE 129E

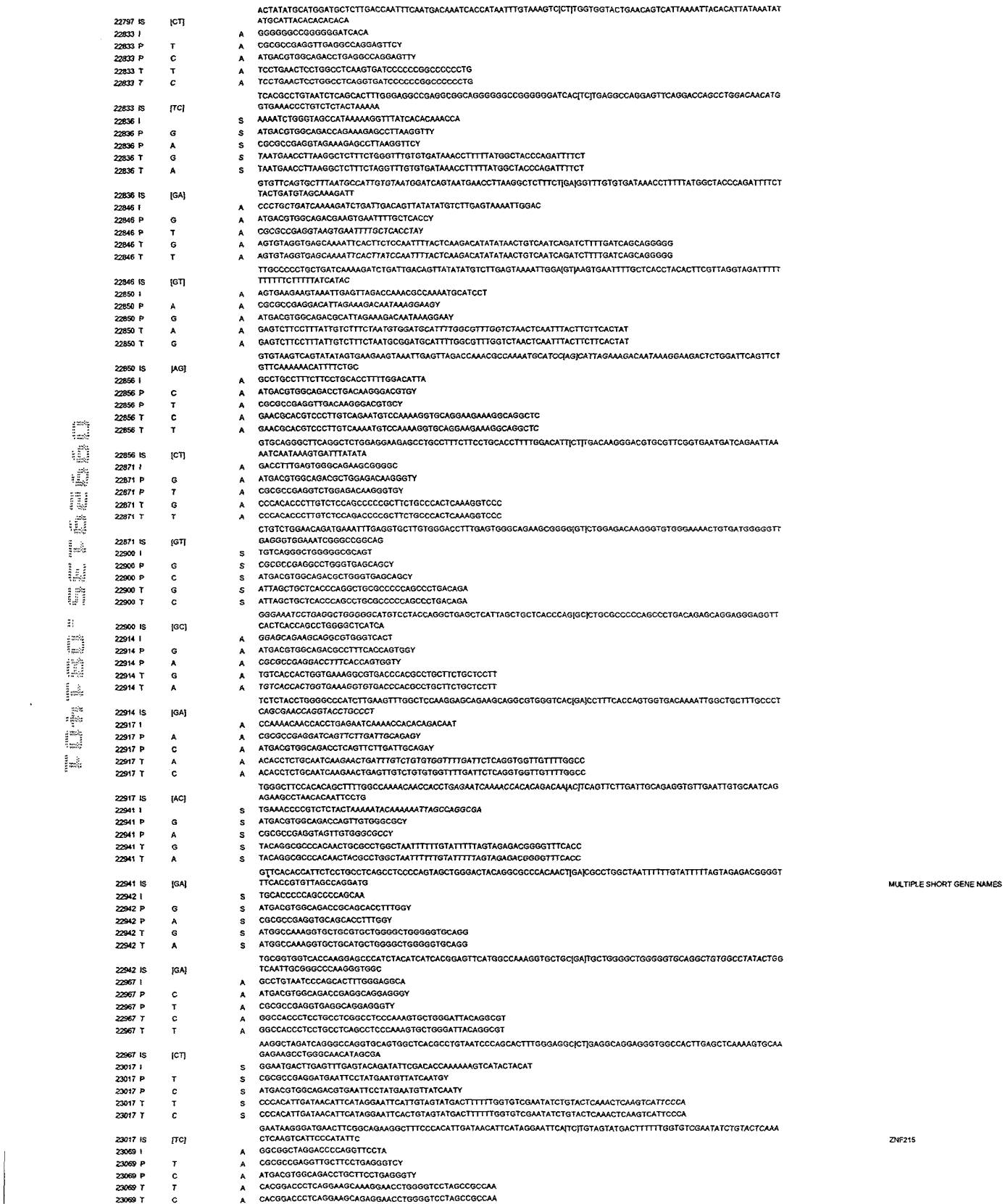

ACTATATGCATGGATGCTCTTGACCAATTTCAATGACAAATCACCATAATTTGTAAAGTC[CT]TGGTGGTACTGAACAGTCATTAAAATTACACATTATAAATAT
22797 IS [CT] ATGCATTACACACACACA
22833 I A GGGGGGCCGGGGGGATCACA
22833 P T A CGCGGCGAGGTTGAGGCCAGGAGTTCY
22833 P C A ATGACGTGGCAGACCTGAGGCCAGGAGTTY
22833 T T A TCCTGAACTCCTGGCCTCAAGTGATCCCCCCGGCCCCCCTG
22833 T C A TCCTGAACTCCTGGCCTCAGGTGATCCCCCCGGCCCCCCTG
TCACGCCTGTAATCTCAGCACTTTGGGAGGCCGAGGCGGCAGGGGGGCCGGGGGGATCAC[TC]TGAGGCCAGGAGTTCAGGACCAGCCTGGACAACATG
22833 IS [TC] GTGAAACCCTGTCTCTACTAAAAA
22836 I S AAAATCTGGGTAGCCATAAAAAGGTTTATCACACAAACCA
22836 P G S ATGACGTGGCAGACCAGAAAGAGCCTTAAGGTTY
22836 P A S CGCGCCGAGGTAGAAAGAGCCTTAAGGTTCY
22836 T G S TAATGAACCTTAAGGCTCTTTCTGGGTTTGTGTGATAAACCTTTTTATGGCTACCCAGATTTTCT
22836 T A S TAATGAACCTTAAGGCTCTTTCTAGGTTTGTGTGATAAACCTTTTTATGGCTACCCAGATTTTCT
GTGTTCAGTGCTTTAATGCCATTGTGTAATGGATCAGTAATGAACCTTAAGGCTCTTTCT[GA]GGTTTGTGTGATAAACCTTTTTATGGCTACCCAGATTTTCT
22836 IS [GA] TACTGATGTAGCAAAGATT
22846 I A CCCTGCTGATCAAAAGATCTGATTGACAGTTATATATGTCTTGAGTAAAATTGGAC
22846 P G A ATGACGTGGCAGACGAAGTGAATTTTGCTCACCY
22846 P T A CGCGCCGAGGTAAGTGAATTTTGCTCACCTAY
22846 T G A AGTGTAGGTGAGCAAAATTCACTTCTCCAATTTTACTCAAGACATATATAACTGTCAATCAGATCTTTTGATCAGCAGGGGG
22846 T T A AGTGTAGGTGAGCAAAATTCACTTATCCAATTTTACTCAAGACATATATAACTGTCAATCAGATCTTTTGATCAGCAGGGGG
TTGCCCCCTGCTGATCAAAAGATCTGATTGACAGTTATATATGTCTTGAGTAAAATTGGA[GT]AAGTGAATTTTGCTCACCTACACTTCGTTAGGTAGATTTTT
22846 IS [GT] TTTTTTCTTTTTATCATAC
22850 I A AGTGAAGAAGTAAATTGAGTTAGACCAAACGCCAAAATGCATCCT
22850 P A A CGCGCCGAGGACATTAGAAAGACAATAAAGGAAGY
22850 P G A ATGACGTGGCAGACGCATTAGAAAGACAATAAAGGAAY
22850 T A A GAGTCTTCCTTTATTGTCTTTCTAATGTGGATGCATTTTGGCGTTTGGTCTAACTCAATTTACTTCTTCACTAT
22850 T G A GAGTCTTCCTTTATTGTCTTTCTAATGCGGATGCATTTTGGCGTTTGGTCTAACTCAATTTACTTCTTCACTAT
GTGTAAGTCAGTATATAGTGAAGAAGTAAATTGAGTTAGACCAAACGCCAAAATGCATCC[AG]CATTAGAAAGACAATAAAGGAAGACTCTGGATTCAGTTCT
22850 IS [AG] GTTCAAAAAACATTTTCTGC
22856 I A GCCTGCCTTTCTTCCTGCACCTTTTGGACATTA
22856 P C A ATGACGTGGCAGACCTGACAAGGGACGTGY
22856 P T A CGCGCCGAGGTTGACAAGGGACGTGCY
22856 T C A GAACGCACGTCCCTTGTCAGAATGTCCAAAAGGTGCAGGAAGAAAGGCAGGCTC
22856 T T A GAACGCACGTCCCTTGTCAAAATGTCCAAAAGGTGCAGGAAGAAAGGCAGGCTC
GTGCAGGGCTTCAGGCTCTGGAGGAAGAGCCTGCCTTTCTTCCTGCACCTTTTGGACATT[CT]TGACAAGGGACGTGCGTTCGGTGAATGATCAGAATTAA
22856 IS [CT] AATCAATAAAGTGATTTATATA
22871 I A GACCTTTGAGTGGGCAGAAGCGGGGC
22871 P G A ATGACGTGGCAGACGCTGGAGACAAGGGTY
22871 P T A CGCGCCGAGGTCTGGAGACAAGGGTGY
22871 T G A CCCACACCCTTGTCTCCAGCCCCCGCTTCTGCCCACTCAAAGGTCCC
22871 T T A CCCACACCCTTGTCTCCAGACCCCGCTTCTGCCCACTCAAAGGTCCC
CTGTCTGGAACAGATGAAATTTGAGGTGCTTGTGGGACCTTTGAGTGGGCAGAAGCGGGG[GT]CTGGAGACAAGGGTGTGGGAAAACTGTGATGGGGGTT
22871 IS [GT] GAGGGTGGAAATCGGGCCGGCAG
22900 I S TGTCAGGGCTGGGGGCGCAGT
22900 P G S CGCGCCGAGGCCTGGGTGAGCAGCY
22900 P C S ATGACGTGGCAGACGCTGGGTGAGCAGCY
22900 T G S ATTAGCTGCTCACCCAGGCTGCGCCCCCAGCCCTGACAGA
22900 T C S ATTAGCTGCTCACCCAGCCTGCGCCCCCAGCCCTGACAGA
GGGAAATCCTGAGGCTGGGGGCATGTCCTACCAGGCTGAGCTCATTAGCTGCTCACCCAG[GC]CTGCGCCCCCAGCCCTGACAGAGCAGGAGGGAGGTT
22900 IS [GC] CACTCACCAGCCTGGGGCTCATCA
22914 I A GGAGCAGAAGCAGGCGTGGGTCACT
22914 P G A ATGACGTGGCAGACGCCTTTCACCAGTGGY
22914 P A A CGCGCCGAGGACCTTTCACCAGTGGTY
22914 T G A TGTCACCACTGGTGAAAGGCGTGACCCACGCCTGCTTCTGCTCCTT
22914 T A A TGTCACCACTGGTGAAAGGTGTGACCCACGCCTGCTTCTGCTCCTT
TCTCTACCTGGGGCCCATCTTGAAGTTTGGCTCCAAGGAGCAGAAGCAGGCGTGGGTCAC[GA]CCTTTCACCAGTGGTGACAAAATTGGCTGCTTTGCCCT
22914 IS [GA] CAGCGAACCAGGTACCTGCCCT
22917 I A CCAAAACAACCACCTGAGAATCAAAACCACACAGACAAT
22917 P A A CGCGCCGAGGATCAGTTCTTGATTGCAGAGY
22917 P C A ATGACGTGGCAGACCTCAGTTCTTGATTGCAGAY
22917 T A A ACACCTCTGCAATCAAGAACTGATTTGTCTGTGTGGTTTTGATTCTCAGGTGGTTGTTTTGGCC
22917 T C A ACACCTCTGCAATCAAGAACTGAGTTGTCTGTGTGGTTTTGATTCTCAGGTGGTTGTTTTGGCC
TGGGCTTCCACACAGCTTTTGGCCAAAACAACCACCTGAGAATCAAAACCACACAGACAAJACTCAGTTCTTGATTGCAGAGGTGTTGAATTGTGCAATCAG
22917 IS [AC] AGAAGCCTAACACAATTCCTG
22941 I S TGAAACCCCGTCTCTACTAAAAATACAAAAAATTAGCCAGGCGA
22941 P G S ATGACGTGGCAGACCAGTTGTGGGCGCY
22941 P A S CGCGCCGAGGTAGTTGTGGGCGCCY
22941 T G S TACAGGCGCCCACAACTGCGCCTGGCTAATTTTTTGTATTTTTAGTAGAGACGGGGTTTCACC
22941 T A S TACAGGCGCCCACAACTACGCCTGGCTAATTTTTTGTATTTTTAGTAGAGACGGGGTTTCACC
GTTCACACCATTCTCCTGCCTCAGCCTCCCCAGTAGCTGGGACTACAGGCGCCCACAACT[GA]CGCCTGGCTAATTTTTTGTATTTTTAGTAGAGACGGGGT
22941 IS [GA] TTCACCGTGTTAGCCAGGATG
22942 I S TGCACCCCCAGCCCCAGCAA
22942 P G S ATGACGTGGCAGACCGCAGCACCTTTGGY
22942 P A S CGCGCCGAGGTGCAGCACCTTTGGY
22942 T G S ATGGCCAAAGGTGCTGCGTGCTGGGGCTGGGGGTGCAGG
22942 T A S ATGGCCAAAGGTGCTGCATGCTGGGGCTGGGGGTGCAGG
TGCGGTGGTCACCAAGGAGCCCATCTACATCATCACGGAGTTCATGGCCAAAGGTGCTGC[GA]TGCTGGGGCTGGGGGTGCAGGCTGTGGCCTATACTGG
22942 IS [GA] TCAATTGCGGGCCCAAGGGTGGC
22967 I A GCCTGTAATCCCAGCACTTTGGGAGGCA
22967 P C A ATGACGTGGCAGACCGAGGCAGGAGGGY
22967 P T A CGCGCCGAGGTGAGGCAGGAGGGTY
22967 T C A GGCCACCCTCCTGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGT
22967 T T A GGCCACCCTCCTGCCTCAGCCTCCCAAAGTGCTGGGATTACAGGCGT
AAGGCTAGATCAGGGCCAGGTGCAGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGC[CT]GAGGCAGGAGGGTGGCCACTTGAGCTCAAAAGTGCAA
22967 IS [CT] GAGAAGCCTGGGCAACATAGCGA
23017 I S GGAATGACTTGAGTTTGAGTACAGATATTCGACACCAAAAAAGTCATACTACAT
23017 P T S CGCGCCGAGGATGAATTCCTATGAATGTTATCAATGY
23017 P C S ATGACGTGGCAGACGTGAATTCCTATGAATGTTATCAATY
23017 T T S CCCACATTGATAACATTCATAGGAATTCATTGTAGTATGACTTTTTTGGTGTCGAATATCTGTACTCAAACTCAAGTCATTCCCA
23017 T C S CCCACATTGATAACATTCATAGGAATTCACTGTAGTATGACTTTTTTGGTGTCGAATATCTGTACTCAAACTCAAGTCATTCCCA
GAATAAGGGATGAACTTCGGCAGAAGGCTTTCCCACATTGATAACATTCATAGGAATTCA[TC]TGTAGTATGACTTTTTTGGTGTCGAATATCTGTACTCAAA
23017 IS [TC] CTCAAGTCATTCCCATATTC
23069 I A GGCGGCTAGGACCCCAGGTTCCTA
23069 P T A CGCGCCGAGGTTGCTTCCTGAGGGTCY
23069 P C A ATGACGTGGCAGACCTGCTTCCTGAGGGTY
23069 T T A CACGGACCCTCAGGAAGCAAAGGAACCTGGGGTCCTAGCCGCCAA
23069 T C A CACGGACCCTCAGGAAGCAGAGGAACCTGGGGTCCTAGCCGCCAA
MULTIPLE SHORT GENE NAMES
ZNF215

FIGURE 129E

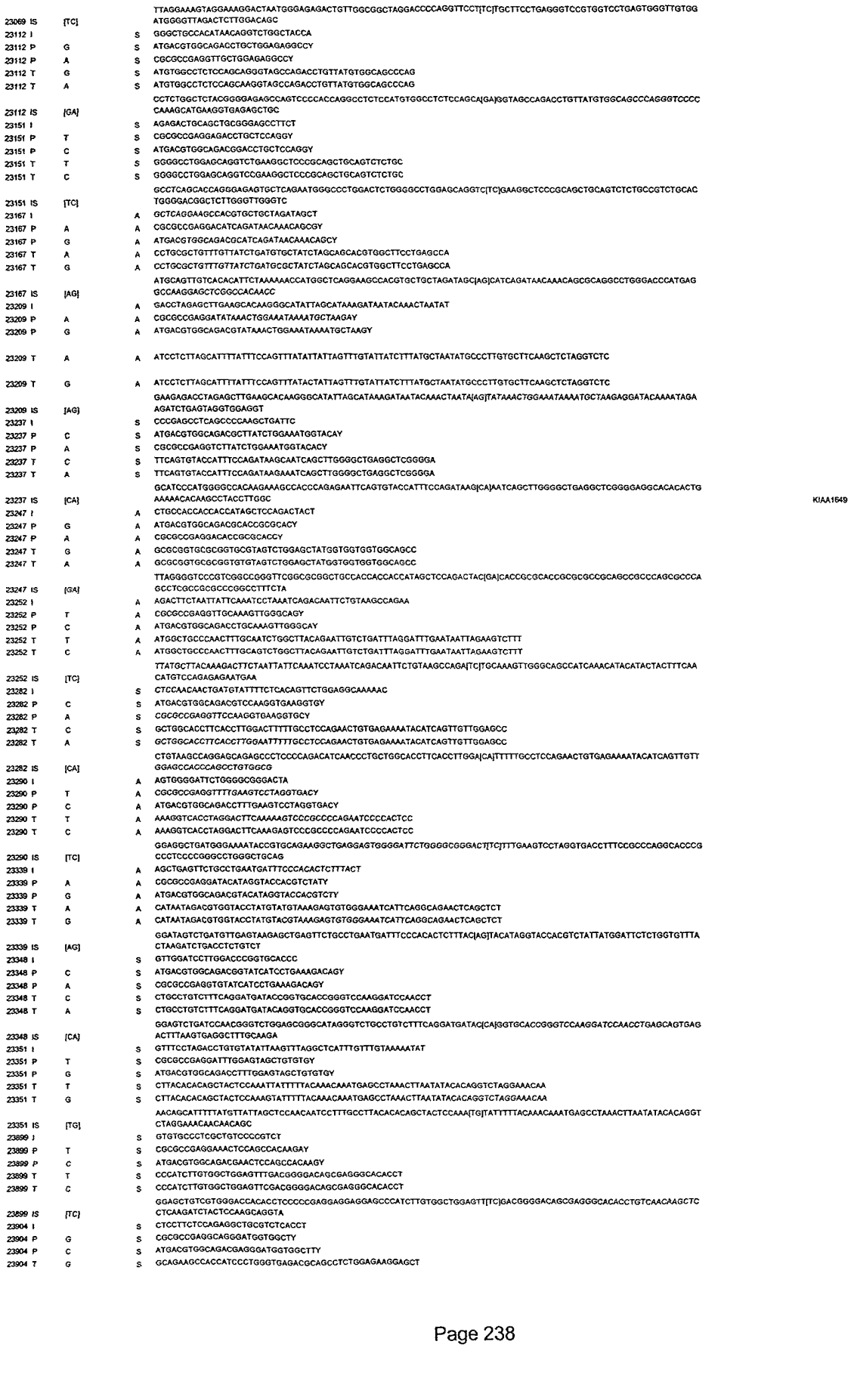

TTAGGAAAGTAGGAAAGGACTAATGGGAGAGACTGTTGGCGGCTAGGACCCCAGGTTCCT[TC]TGCTTCCTGAGGGTCCGTGGTCCTGAGTGGGTTGTGG
23069 IS [TC] ATGGGGTTAGACTCTTGGACAGC
23112 I S GGGCTGCCACATAACAGGTCTGGCTACCA
23112 P G S ATGACGTGGCAGACCTGCTGGAGAGGCCY
23112 P A S CGCGCCGAGGTTGCTGGAGAGGCCY
23112 T G S ATGTGGCCTCTCCAGCAGGGTAGCCAGACCTGTTATGTGGCAGCCCAG
23112 T A S ATGTGGCCTCTCCAGCAAGGTAGCCAGACCTGTTATGTGGCAGCCCAG
CCTCTGGCTCTACGGGGAGAGCCAGTCCCCACCAGGCCTCTCCATGTGGCCTCTCCAGCA[GA]GGTAGCCAGACCTGTTATGTGGCAGCCCAGGGTCCCC
23112 IS [GA] CAAAGCATGAAGGTGAGAGCTGC
23151 I S AGAGACTGCAGCTGCGGGAGCCTTCT
23151 P T S CGCGCCGAGGAGACCTGCTCCAGGY
23151 P C S ATGACGTGGCAGACGGACCTGCTCCAGGY
23151 T T S GGGGCCTGGAGCAGGTCTGAAGGCTCCCGCAGCTGCAGTCTCTGC
23151 T C S GGGGCCTGGAGCAGGTCCGAAGGCTCCCGCAGCTGCAGTCTCTGC
GCCTCAGCACCAGGGAGAGTGCTCAGAATGGGCCCTGGACTCTGGGGCCTGGAGCAGGTC[TC]GAAGGCTCCCGCAGCTGCAGTCTCTGCCGTCTGCAC
23151 IS [TC] TGGGGACGGCTCTTGGGTTGGGTC
23167 I A GCTCAGGAAGCCACGTGCTGCTAGATAGCT
23167 P A A CGCGCCGAGGACATCAGATAACAAACAGCGY
23167 P G A ATGACGTGGCAGACGCATCAGATAACAAACAGCY
23167 T A A CCTGCGCTGTTTGTTATCTGATGTGCTATCTAGCAGCACGTGGCTTCCTGAGCCA
23167 T G A CCTGCGCTGTTTGTTATCTGATGCGCTATCTAGCAGCACGTGGCTTCCTGAGCCA
ATGCAGTTGTCACACATTCTAAAAAACCATGGCTCAGGAAGCCACGTGCTGCTAGATAGC[AG]CATCAGATAACAAACAGCGCAGGCCTGGGACCCATGAG
23167 IS [AG] GCCAAGGAGCTCGGCCACAACC
23209 I A GACCTAGAGCTTGAAGCACAAGGGCATATTAGCATAAAGATAATACAAACTAATAT
23209 P A A CGCGCCGAGGATATAAACTGGAAATAAAATGCTAAGAY
23209 P G A ATGACGTGGCAGACGTATAAACTGGAAATAAAATGCTAAGY
23209 T A A ATCCTCTTAGCATTTTATTTCCAGTTTATATTATTAGTTTGTATTATCTTTATGCTAATATGCCCTTGTGCTTCAAGCTCTAGGTCTC
23209 T G A ATCCTCTTAGCATTTTATTTCCAGTTTATACTATTAGTTTGTATTATCTTTATGCTAATATGCCCTTGTGCTTCAAGCTCTAGGTCTC
GAAGAGACCTAGAGCTTGAAGCACAAGGGCATATTAGCATAAAGATAATACAAACTAATA[AG]TATAAACTGGAAATAAAATGCTAAGAGGATACAAAATAGA
23209 IS [AG] AGATCTGAGTAGGTGGAGGT
23237 I S CCCGAGCCTCAGCCCCAAGCTGATTC
23237 P C S ATGACGTGGCAGACGCTTATCTGGAAATGGTACAY
23237 P A S CGCGCCGAGGTCTTATCTGGAAATGGTACACY
23237 T C S TTCAGTGTACCATTTCCAGATAAGCAATCAGCTTGGGGCTGAGGCTCGGGGA
23237 T A S TTCAGTGTACCATTTCCAGATAAGAAATCAGCTTGGGGCTGAGGCTCGGGGA
GCATCCCATGGGGCCACAAGAAAGCCACCCAGAGAATTCAGTGTACCATTTCCAGATAAG[CA]AATCAGCTTGGGGCTGAGGCTCGGGGAGGCACACACTG
23237 IS [CA] AAAAACACAAGCCTACCTTGGC KIAA1649
23247 I A CTGCCACCACCACCATAGCTCCAGACTACT
23247 P G A ATGACGTGGCAGACGCACCGCGCACY
23247 P A A CGCGCCGAGGACACCGCGCACCY
23247 T G A GCGCGGTGCGCGGTGCGTAGTCTGGAGCTATGGTGGTGGTGGCAGCC
23247 T A A GCGCGGTGCGCGGTGTGTAGTCTGGAGCTATGGTGGTGGTGGCAGCC
TTAGGGGTCCCGTCGGCCGGGTTCGGCGCGGCTGCCACCACCACCATAGCTCCAGACTAC[GA]CACCGCGCACCGCGCGCCGCAGCCGCCCAGCGCCCA
23247 IS [GA] GCCTCGCCGCGCCCGGCCTTTCTA
23252 I A AGACTTCTAATTATTCAAATCCTAAATCAGACAATTCTGTAAGCCAGAA
23252 P T A CGCGCCGAGGTTGCAAAGTTGGGCAGY
23252 P C A ATGACGTGGCAGACCTGCAAAGTTGGGCAY
23252 T T A ATGGCTGCCCAACTTTGCAATCTGGCTTACAGAATTGTCTGATTTAGGATTTGAATAATTAGAAGTCTTT
23252 T C A ATGGCTGCCCAACTTTGCAGTCTGGCTTACAGAATTGTCTGATTTAGGATTTGAATAATTAGAAGTCTTT
TTATGCTTACAAAGACTTCTAATTATTCAAATCCTAAATCAGACAATTCTGTAAGCCAGA[TC]TGCAAAGTTGGGCAGCCATCAAACATACATACTACTTTCAA
23252 IS [TC] CATGTCCAGAGAGAATGAA
23282 I S CTCCAACAACTGATGTATTTTCTCACAGTTCTGGAGGCAAAAAC
23282 P C S ATGACGTGGCAGACGTCCAAGGTGAAGGTGY
23282 P A S CGCGCCGAGGTTCCAAGGTGAAGGTGCY
23282 T C S GCTGGCACCTTCACCTTGGACTTTTTGCCTCCAGAACTGTGAGAAAATACATCAGTTGTTGGAGCC
23282 T A S GCTGGCACCTTCACCTTGGAATTTTTGCCTCCAGAACTGTGAGAAAATACATCAGTTGTTGGAGCC
CTGTAAGCCAGGAGCAGAGCCCTCCCCAGACATCAACCCTGCTGGCACCTTCACCTTGGA[CA]TTTTTGCCTCCAGAACTGTGAGAAAATACATCAGTTGTT
23282 IS [CA] GGAGCCACCCAGCCTGTGGCG
23290 I A AGTGGGGATTCTGGGGCGGGACTA
23290 P T A CGCGCCGAGGTTTTGAAGTCCTAGGTGACY
23290 P C A ATGACGTGGCAGACCTTTGAAGTCCTAGGTGACY
23290 T T A AAAGGTCACCTAGGACTTCAAAAAGTCCCGCCCCAGAATCCCCACTCC
23290 T C A AAAGGTCACCTAGGACTTCAAAGAGTCCCGCCCCAGAATCCCCACTCC
GGAGGCTGATGGGAAAATACCGTGCAGAAGGCTGAGGAGTGGGGATTCTGGGGCGGGACT[TC]TTTGAAGTCCTAGGTGACCTTTCCGCCCAGGCACCCG
23290 IS [TC] CCCTCCCCGGGCCTGGGCTGCAG
23339 I A AGCTGAGTTCTGCCTGAATGATTTCCCACACTCTTTACT
23339 P A A CGCGCCGAGGATACATAGGTACCACGTCTATY
23339 P G A ATGACGTGGCAGACGTACATAGGTACCACGTCTY
23339 T A A CATAATAGACGTGGTACCTATGTATGTAAAGAGTGTGGGAAATCATTCAGGCAGAACTCAGCTCT
23339 T G A CATAATAGACGTGGTACCTATGTACGTAAAGAGTGTGGGAAATCATTCAGGCAGAACTCAGCTCT
GGATAGTCTGATGTTGAGTAAGAGCTGAGTTCTGCCTGAATGATTTCCCACACTCTTTAC[AG]TACATAGGTACCACGTCTATTATGGATTCTCTGGTGTTTA
23339 IS [AG] CTAAGATCTGACCTCTGTCT
23348 I S GTTGGATCCTTGGACCCGGTGCACCC
23348 P C S ATGACGTGGCAGACGGTATCATCCTGAAAGACAGY
23348 P A S CGCGCCGAGGTGTATCATCCTGAAAGACAGY
23348 T C S CTGCCTGTCTTTCAGGATGATACCGGTGCACCGGGTCCAAGGATCCAACCT
23348 T A S CTGCCTGTCTTTCAGGATGATACAGGTGCACCGGGTCCAAGGATCCAACCT
GGAGTCTGATCCAACGGGTCTGGAGCGGGCATAGGGTCTGCCTGTCTTTCAGGATGATAC[CA]GGTGCACCGGGTCCAAGGATCCAACCTGAGCAGTGAG
23348 IS [CA] ACTTTAAGTGAGGCTTTGCAAGA
23351 I S GTTTCCTAGACCTGTGTATATTAAGTTTAGGCTCATTTGTTTGTAAAAATAT
23351 P T S CGCGCCGAGGATTTGGAGTAGCTGTGTGY
23351 P G S ATGACGTGGCAGACCTTTGGAGTAGCTGTGTGY
23351 T T S CTTACACACAGCTACTCCAAATTATTTTTACAAACAAATGAGCCTAAACTTAATATACACAGGTCTAGGAAACAA
23351 T G S CTTACACACAGCTACTCCAAAGTATTTTTACAAACAAATGAGCCTAAACTTAATATACACAGGTCTAGGAAACAA
AACAGCATTTTTATGTTATTAGCTCCAACAATCCTTTGCCTTACACACAGCTACTCCAAA[TG]TATTTTTACAAACAAATGAGCCTAAACTTAATATACACAGGT
23351 IS [TG] CTAGGAAACAACAACAGC
23899 I S GTGTGCCCTCGCTGTCCCCGTCT
23899 P T S CGCGCCGAGGAAACTCCAGCCACAAGAY
23899 P C S ATGACGTGGCAGACGAACTCCAGCCACAAGY
23899 T T S CCCATCTTGTGGCTGGAGTTTGACGGGGACAGCGAGGGCACACCT
23899 T C S CCCATCTTGTGGCTGGAGTTCGACGGGGACAGCGAGGGCACACCT
GGAGCTGTCGTGGGACCACACCTCCCCCGAGGAGGAGGAGCCCATCTTGTGGCTGGAGTT[TC]GACGGGGACAGCGAGGGCACACCTGTCAACAAGCTC
23899 IS [TC] CTCAAGATCTACTCCAAGCAGGTA
23904 I S CTCCTTCTCCAGAGGCTGCGTCTCACCT
23904 P G S CGCGCCGAGGCAGGGATGGTGGCTY
23904 P C S ATGACGTGGCAGACGAGGGATGGTGGCTTY
23904 T G S GCAGAAGCCACCATCCCTGGGTGAGACGCAGCCTCTGGAGAAGGAGCT

FIGURE 129E

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23904 T   C     S   GCAGAAGCCACCATCCCTCGGTGAGACGCAGCCTCTGGAGAAGGAGCT
                      CTCAGCATGACGGCCGGCCACAGTTACAGAGAGGAGGGGGCAGCAGAAGCCACCATCCCT[GC]GGTGAGACGCAGCCTCTGGAGAAGGAGCTGGGTTTT
23904 IS  [GC]        ACCGACCTGGCGAGCCCACGAGCC
23905 I           S   GGCTCGTGGGCTCGTGGGCTCT
23905 P   C       S   ATGACGTGGCAGACGCCAGGTCGGTAAAACY
23905 P   T       S   CGCGCCGAGGACCAGGTCGGTAAAACCY
23905 T   C       S   GCTGGGTTTTACCGACCTGGCGAGCCCACGAGCCCACGAGCCCA
23905 T   T       S   GCTGGGTTTTACCGACCTGGTGAGCCCACGAGCCCACGAGCCCA
                      AGCCACCATCCCTGGGTGAGACGCAGCCTCTGGAGAAGGAGCTGGGTTTTACCGACCTGG[CT]GAGCCCACGAGCCCACGAGCCCACATGAGCTCAGTAA
23905 IS  [CT]        GATGCTGCATGAATGACCTTTCC
23975 I           S   GGCACCTCCAAGGAAACCCCCCTCTGA
23975 P   A       S   CGCGCCGAGGTTGACCCCTCCCTGY
23975 P   G       S   ATGACGTGGCAGACCTGACCCCTCCCTGY
23975 T   A       S   GGGGCAGGGAGGGGTCAACAGAGGGGGGTTTCCTTGGAGGTGCCTT
23975 T   G       S   GGGGCAGGGAGGGGTCAGCAGAGGGGGGTTTCCTTGGAGGTGCCTT
                      TCCGGCCCTGCCTGTCCCGAACCATGGGATGAAGAAGCACCTGGGGGCAGGGAGGGGTCA[AG]CAGAGGGGGGTTTCCTTGGAGGTGCCTTGGGATCTC
23975 IS  [AG]        TGGCCTCCATACTTTGGGGGTAGG
24011 I           A   GAAAGCAAAGCGAGGCTGGATCCCAGCT
24011 P   A       A   CGCGCCGAGGATCCTTCCTCGAGCCY
24011 P   G       A   ATGACGTGGCAGACGTCCTTCCTCGAGCCY
24011 T   A       A   CAGGGGCTCGAGGAAGGATGCTGGGATCCAGCCTCGCTTTGCTTTCAT
24011 T   G       A   CAGGGGCTCGAGGAAGGACGCTGGGATCCAGCCTCGCTTTGCTTTCAT
                      CACCTCTGGCACAGGTTGGTGGTTCTGTCAGATGAAAGCAAAGCGAGGCTGGATCCCAGC[AG]TCCTTCCTCGAGCCCCTGGACAGTCCTGACGAGACGG
24011 IS  [AG]        AAGACCCTGAGCCCAACTATGCA
24019 I           A   TCTCCACCAGCAGCAGCAAAGGATGCTTTTTA
24019 P   C       A   ATGACGTGGCAGACCAGATGTGGCTTTCAAAAGY
24019 P   T       A   CGCGCCGAGGTAGATGTGGCTTTCAAAAGCY
24019 T   C       A   GCTGGCTTTTGAAAGCCACATCTGAAAAAGCATCCTTTGCTGCTGCTGGTGGAGAAG
24019 T   T       A   GCTGGCTTTTGAAAGCCACATCTAAAAAAGCATCCTTTGCTGCTGCTGGTGGAGAAG
                      TGTGCCCTGAGGTTCCAGTCCCTTTCTCTTCTCCACCAGCAGCAGCAAAGGATGCTTTTT[CT]AGATGTGGCTTTCAAAAGCCAGCAGTCTACATCCATGAC
24019 IS  [CT]        ACCTTTTGGACGTCCAGCCAC
24038 I           A   CTTTGCACCACAGATCTAGCCGCGCGT
24038 P   G       A   ATGACGTGGCAGACGTCTTCCCGCCTCTGY
24038 P   A       A   CGCGCCGAGGATCTTCCCGCCTCTGY
24038 T   G       A   CCGGCAGAGGCGGGAAGACCGCGCGGCTAGATCTGTGGTGCAAAGGC
24038 T   A       A   CCGGCAGAGGCGGGAAGATCGCGCGGCTAGATCTGTGGTGCAAAGGC
                      GGATCCCAGGCCCCGCCTTCCATGACCTTCGGGCCTTTGCACCACAGATCTAGCCGCGCG[GA]TCTTCCCGCCTCTGCCGGGGCCAACTATCAAGCCCCGC
24038 IS  [GA]        CCCCCACTGCCTATCACGCCCCG
24047 I           S   AGAACATTATTACAAGGAAAAGGCTGGATAAAAAGATTTGCCT
24047 P   T       S   CGCGCCGAGGATACTTACTGTCTCTACGAAGTY
24047 P   G       S   ATGACGTGGCAGACCTACTTACTGTCTCTACGAAGTY
24047 T   T       S   ATCCACTTCGTAGAGACAGTAAGTATGGCAAATCTTTTTATCCAGCCTTTTCCTTGTAATAATGTTCTCT
24047 T   G       S   ATCCACTTCGTAGAGACAGTAAGTAGGGCAAATCTTTTTATCCAGCCTTTTCCTTGTAATAATGTTCTCT
                      CTATATAGAAATAGCAGTTATTGAGTTATGATGAAATCCACTTCGTAGAGACAGTAAGTA[TG]GGCAAATCTTTTTATCCAGCCTTTTCCTTGTAATAATGTTC
24047 IS  [TG]        TCTAGAGGAAAACTGACTT
24085 I           S   ACACACATGGCGGGGTGGGCCT
24085 P   G       S   CGCGCCGAGGCTGAGTGGACAGGCCY
24085 P   C       S   ATGACGTGGCAGACGTGAGTGGACAGGCCY
24085 T   G       S   AGGGGGCCTGTCCACTCAGGGCCCACCCCGCCATGTGTGTTC
24085 T   C       S   AGGGGGCCTGTCCACTCACGGCCCACCCCGCCATGTGTGTTC
                      GGCGGCCTCGGGTCAGAGCTCAGATCTTGGCTCAGAAATCACAGGGGGCCTGTCCACTCA[GC]GGCCCACCCCGCCATGTGTGTTCCCAAGCTTCGCCAG
24085 IS  [GC]        GACACAGGGCCTGGCACTGCCAC
24138 I           A   GGTGGGAGCTGGGAGACAAGGAGCCT
24138 P   A       A   CGCGCCGAGGATCCCTTTCCTCAGCTTY
24138 P   G       A   ATGACGTGGCAGACGTCCCTTTCCTCAGCTY
24138 T   A       A   GAGGAAGCTGAGGAAAGGGATGGCTCCTTGTCTCCCAGCTCCCACCCT
24138 T   G       A   GAGGAAGCTGAGGAAAGGGACGGCTCCTTGTCTCCCAGCTCCCACCCT
                      TCCATGGGAGGCAGCAAGGAGGCTCCCCTAGCCAGGGTGGGAGCTGGGAGACAAGGAGCC[AG]TCCCTTTCCTCAGCTTCCTCCTGGGGGAGCCATGGG
24138 IS  [AG]        GGTCAGTCCCACAACAAGAGCTGG                                                                                KIAA0417
24142 I           S   GCACACCCCTCTAAACGGCCGCCT
24142 P   G       S   ATGACGTGGCAGACCCCTAACATCCATCTTTCCY
24142 P   T       S   CGCGCCGAGGACCTAACATCCATCTTTCCTY
24142 T   G       S   TATGAGGAAAGATGGATGTTAGGGGCGGCCGTTTAGAGGGGTGTGCAC
24142 T   T       S   TATGAGGAAAGATGGATGTTAGGTGGCGGCCGTTTAGAGGGGTGTGCAC
                      GGGCTAGAGATGGGGCTGTTGCTCCCACCCTGCCCTGTATGAGGAAAGATGGATGTTAGG[GT]GGCGGCCGTTTAGAGGGGTGTGCACGTAGATGCACAG
24142 IS  [GT]        GCAGCCAACCTGAGTGAGTGCCC
24167 I           A   CAGCTGCGAGCCCTCCGTAGTGGT
24167 P   A       A   CGCGCCGAGGACTTACCACGACAGCAY
24167 P   C       A   ATGACGTGGCAGACCCTTACCACGACAGCAY
24167 T   A       A   GGGTTGCTGTCGTGGTAAGTCCACTACGGAGGGCTCGCAGCTGCC
24167 T   C       A   GGGTTGCTGTCGTGGTAAGGCCACTACGGAGGGCTCGCAGCTGCC
                      AGTCATTCTTTGCTAAAATGGAACAGAAGTGGTTAGGCAGCTGCGAGCCCTCCGTAGTGG[AC]CTTACCACGACAGCAACCCCCTCGTGTACCATTGAGGG
24167 IS  [AC]        AGAGGCATAGAGGCTGGTAGAG
24183 I           A   CCAGGGGTGTGCTGGAGGGTGGTAGT
24183 P   G       A   ATGACGTGGCAGACGGGTGAGAGCCTGCY
24183 P   A       A   CGCGCCGAGGAGGTGAGAGCCTGCY
24183 T   G       A   GGCAGCAGGCTCTCACCCCTACCACCCTCCAGCACACCCCTGGCA
24183 T   A       A   GGCAGCAGGCTCTCACCTCTACCACCCTCCAGCACACCCCTGGCA
                      ACACTTCACACTCACTCTGTGGCTCCGTGCCTGTGCCAGGGGTGTGCTGGAGGGTGGTAG[GA]GGTGAGAGCCTGCTGCCTTCTCCCCAGACGCGAGTGC
24183 IS  [GA]        TGGTGACGCACGGCATTAGCTTC
24206 I           S   AGAATCAGTGGTCTTATCATTGATAGTTCCTGGAGGGCCA
24206 P   A       S   CGCGCCGAGGTACTTGAGCAAAGCAGCY
24206 P   G       S   ATGACGTGGCAGACCACTTGAGCAAAGCAGCY
24206 T   A       S   CAAAGCTGCTTTGCTCAAGTAGGCCCTCCAGGAACTATCAATGATAAGACCACTGATTCTTA
24206 T   G       S   CAAAGCTGCTTTGCTCAAGTGGGCCCTCCAGGAACTATCAATGATAAGACCACTGATTCTTA
                      AATGACTTTTAAAAGTATTAATTTAAAAATCCAATACTGCCAAAGCTGCTTTGCTCAAGT[AG]GGCCCTCCAGGAACTATCAATGATAAGACCACTGATTCTTA
24206 IS  [AG]        CCTGGAAAACACTAGGGAA
24212 I           S   GCGCACACCTCTCCAGAAGGTGGCA
24212 P   A       S   CGCGCCGAGGTGGGCTCACCTGGY
24212 P   G       S   ATGACGTGGCAGACCGGGCTCACCTGGY
24212 T   A       S   TCAGCCAGGTGAGCCCAGCCACCTTCTGGAGAGGTGTGCGCGG
24212 T   G       S   TCAGCCAGGTGAGCCCGGCCACCTTCTGGAGAGGTGTGCGCGG
                      AGGATGTAGGAAGGGAGCCCGCCAAGGACCCAGAGATCATGAACTCAGCCAGGTGAGCCC[AG]GCCACCTTCTGGAGAGGTGTGCGCGGAGGAGGTCAG
24212 IS  [AG]        AGGGTGAGGGGTAGCGCTACACAC
24277 I           S   CCACATCTTTGCTCCATGCTGCACATGCAGT
24277 P   T       S   CGCGCCGAGGAGCCTCAAAGCCCCY
24277 P   C       S   ATGACGTGGCAGACGGCCTCAAAGCCCCY
24277 T   T       S   GCCGGGGGGCTTTGAGGCTCTGCATGTGCAGCATGGAGCAAAGATGTGGGA
24277 T   C       S   GCCGGGGGGCTTTGAGGCCCTGCATGTGCAGCATGGAGCAAAGATGTGGGA
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FIGURE 129E

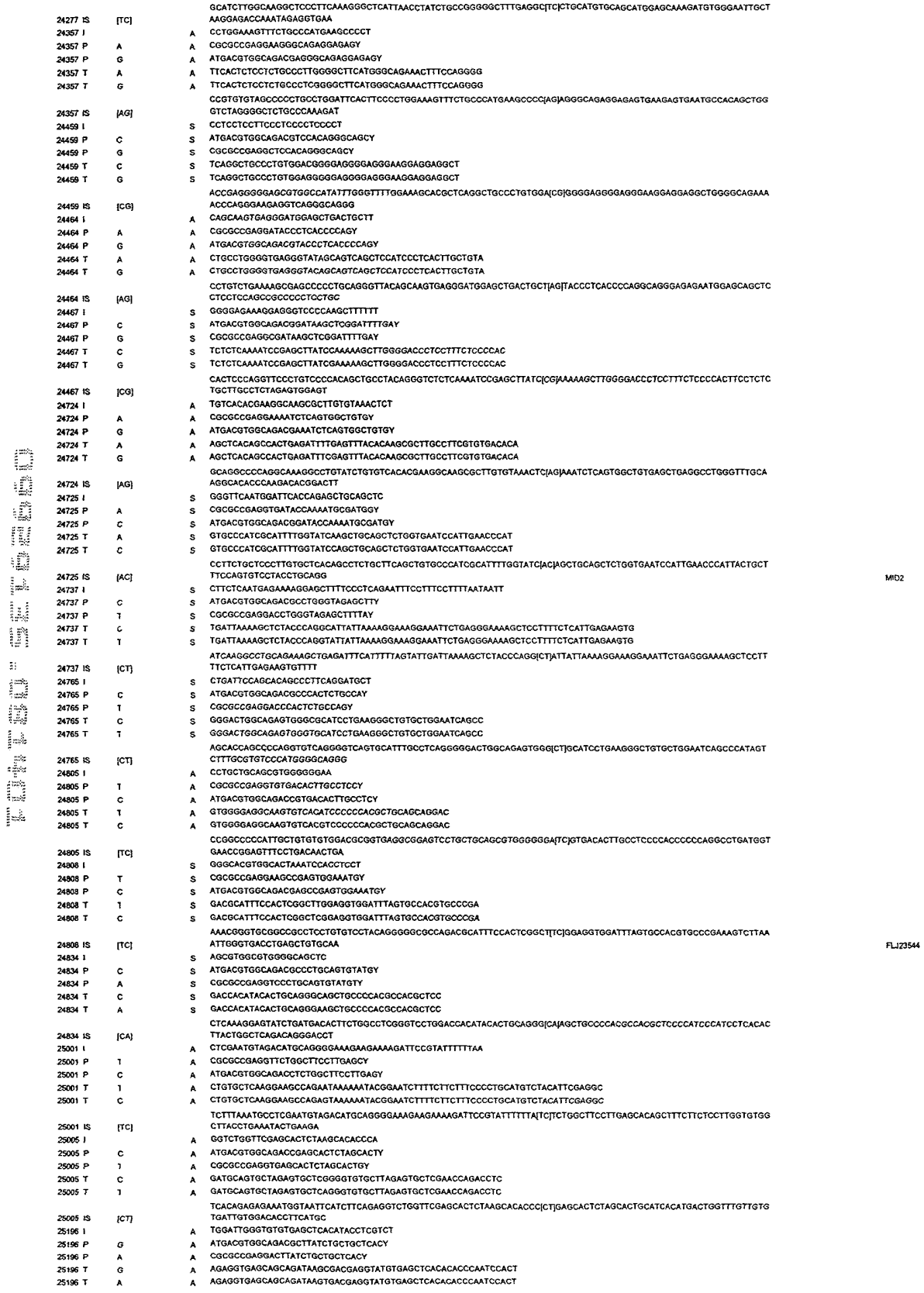

GCATCTTGGCAAGGCTCCCTTCAAAGGGCTCATTAACCTATCTGCCGGGGGCTTTGAGGC[TC]CTGCATGTGCAGCATGGAGCAAAGATGTGGGAATTGCT
24277 IS [TC] AAGGAGACCAAATAGAGGTGAA
24357 I A CCTGGAAAGTTTCTGCCCATGAAGCCCCT
24357 P A A CGCGCCGAGGAAGGGCAGAGGAGAGY
24357 P G A ATGACGTGGCAGACGAGGGCAGAGGAGAGY
24357 T A A TTCACTCTCCTCTGCCCTTGGGGCTTCATGGGCAGAAACTTTCCAGGGG
24357 T G A TTCACTCTCCTCTGCCCTCGGGGCTTCATGGGCAGAAACTTTCCAGGGG
CCGTGTGTAGCCCCCTGCCTGGATTCACTTCCCCTGGAAAGTTTCTGCCCATGAAGCCCC[AG]AGGGCAGAGGAGAGTGAAGAGTGAATGCCACAGCTGG
24357 IS [AG] GTCTAGGGGCTCTGCCCAAAGAT
24459 I S CCTCCTCCTTCCCTCCCCTCCCCT
24459 P C S ATGACGTGGCAGACGTCCACAGGGCAGCY
24459 P G S CGCGCCGAGGCTCCACAGGGCAGCY
24459 T C S TCAGGCTGCCCTGTGGACGGGGAGGGGAGGGAAGGAGGAGGCT
24459 T G S TCAGGCTGCCCTGTGGAGGGGGAGGGGAGGGAAGGAGGAGGCT
ACCGAGGGGGAGCGTGGCCATATTTGGGTTTTGGAAAGCACGCTCAGGCTGCCCTGTGGA[CG]GGGGAGGGGAGGGAAGGAGGAGGCTGGGGCAGAAA
24459 IS [CG] ACCCAGGGAAGAGGTCAGGGCAGGG
24464 I A CAGCAAGTGAGGGATGGAGCTGACTGCTT
24464 P A A CGCGCCGAGGATACCCTCACCCCAGY
24464 P G A ATGACGTGGCAGACGTACCCTCACCCCAGY
24464 T A A CTGCCTGGGGTGAGGGTATAGCAGTCAGCTCCATCCCTCACTTGCTGTA
24464 T G A CTGCCTGGGGTGAGGGTACAGCAGTCAGCTCCATCCCTCACTTGCTGTA
CCTGTCTGAAAAGCGAGCCCCCTGCAGGGTTACAGCAAGTGAGGGATGGAGCTGACTGCT[AG]TACCCTCACCCCAGGCAGGGAGAGAATGGAGCAGCTC
24464 IS [AG] CTCCTCCAGCCGCCCCCTCCTGC
24467 I S GGGGAGAAAGGAGGGTCCCCAAGCTTTTTT
24467 P C S ATGACGTGGCAGACGGATAAGCTCGGATTTTGAY
24467 P G S CGCGCCGAGGCGATAAGCTCGGATTTTGAY
24467 T C S TCTCTCAAAATCCGAGCTTATCCAAAAAGCTTGGGGACCCTCCTTTCTCCCCAC
24467 T G S TCTCTCAAAATCCGAGCTTATCGAAAAAGCTTGGGGACCCTCCTTTCTCCCCAC
CACTCCCAGGTTCCCTGTCCCCACAGCTGCCTACAGGGTCTCTCAAAATCCGAGCTTATC[CG]AAAAAGCTTGGGGACCCTCCTTTCTCCCCACTTCCTCTC
24467 IS [CG] TGCTTGCCTCTAGAGTGGAGT
24724 I A TGTCACACGAAGGCAAGCGCTTGTGTAAACTCT
24724 P A A CGCGCCGAGGAAAATCTCAGTGGCTGTGY
24724 P G A ATGACGTGGCAGACGAAATCTCAGTGGCTGTGY
24724 T A A AGCTCACAGCCACTGAGATTTTGAGTTTACACAAGCGCTTGCCTTCGTGTGACACA
24724 T G A AGCTCACAGCCACTGAGATTTCGAGTTTACACAAGCGCTTGCCTTCGTGTGACACA
GCAGGCCCCAGGCAAAGGCCTGTATCTGTGTCACACGAAGGCAAGCGCTTGTGTAAACTC[AG]AAATCTCAGTGGCTGTGAGCTGAGGCCTGGGTTTGCA
24724 IS [AG] AGGCACACCCAAGACACGGACTT
24725 I S GGGTTCAATGGATTCACCAGAGCTGCAGCTC
24725 P A S CGCGCCGAGGTGATACCAAAATGCGATGGY
24725 P C S ATGACGTGGCAGACGGATACCAAAATGCGATGY
24725 T A S GTGCCCATCGCATTTTGGTATCAAGCTGCAGCTCTGGTGAATCCATTGAACCCAT
24725 T C S GTGCCCATCGCATTTTGGTATCCAGCTGCAGCTCTGGTGAATCCATTGAACCCAT
CCTTCTGCTCCCTTGTGCTCACAGCCTCTGCTTCAGCTGTGCCCATCGCATTTTGGTATC[AC]AGCTGCAGCTCTGGTGAATCCATTGAACCCATTACTGCT
24725 IS [AC] TTCCAGTGTCCTACCTGCAGG MID2
24737 I S CTTGTCAATGAGAAAAGGAGCTTTTCCCTCAGAATTTCCTTTCCTTTTAATAATT
24737 P C S ATGACGTGGCAGACGCCTGGGTAGAGCTTY
24737 P T S CGCGCCGAGGACCTGGGTAGAGCTTTTAY
24737 T C S TGATTAAAAGCTCTACCCAGGCATTATTAAAAGGAAAGGAAATTCTGAGGGAAAAGCTCCTTTTCTCATTGAGAAGTG
24737 T T S TGATTAAAAGCTCTACCCAGGTATTATTAAAAGGAAAGGAAATTCTGAGGGAAAAGCTCCTTTTCTCATTGAGAAGTG
ATCAAGGCCTGCAGAAAGCTGAGATTTCATTTTTAGTATTGATTAAAAGCTCTACCCAGG[CT]ATTATTAAAAGGAAAGGAAATTCTGAGGGAAAAGCTCCTT
24737 IS [CT] TTCTCATTGAGAAGTGTTTT
24765 I S CTGATTCCAGCACAGCCCTTCAGGATGCT
24765 P C S ATGACGTGGCAGACGCCCACTCTGCCAY
24765 P T S CGCGCCGAGGACCCACTCTGCCAGY
24765 T C S GGGACTGGCAGAGTGGGCGCATCCTGAAGGGCTGTGCTGGAATCAGCC
24765 T T S GGGACTGGCAGAGTGGGTGCATCCTGAAGGGCTGTGCTGGAATCAGCC
AGCACCAGCCCCAGGTGTCAGGGGTCAGTGCATTTGCCTCAGGGGGACTGGCAGAGTGGG[CT]GCATCCTGAAGGGCTGTGCTGGAATCAGCCCATAGT
24765 IS [CT] CTTTGCGTGTCCCATGGGGCAGGG
24805 I A CCTGCTGCAGCGTGGGGGGAA
24805 P T A CGCGCCGAGGTGTGACACTTGCCTCCY
24805 P C A ATGACGTGGCAGACCGTGACACTTGCCTCY
24805 T T A GTGGGGAGGCAAGTGTCACATCCCCCCACGCTGCAGCAGGAC
24805 T C A GTGGGGAGGCAAGTGTCACGTCCCCCCACGCTGCAGCAGGAC
CCGGCCCCCATTGCTGTGTGTGGACGCGGTGAGGCGGAGTCCTGCTGCAGCGTGGGGGGA[TC]GTGACACTTGCCTCCCCACCCCCCAGGCCTGATGGT
24805 IS [TC] GAACCGGAGTTTCCTGACAACTGA
24808 I S GGGCACGTGGCACTAAATCCACCTCCT
24808 P T S CGCGCCGAGGAAGCCGAGTGGAAATGY
24808 P C S ATGACGTGGCAGACGAGCCGAGTGGAAATGY
24808 T T S GACGCATTTCCACTCGGCTTGGAGGTGGATTTAGTGCCACGTGCCCGA
24808 T C S GACGCATTTCCACTCGGCTCGAGGTGGATTTAGTGCCACGTGCCCGA
AAACGGGTGCGGCCGCCTCCTGTGTCCTACAGGGGGCGCCAGACGCATTTCCACTCGGCT[TC]GGAGGTGGATTTAGTGCCACGTGCCCGAAAGTCTTAA
24808 IS [TC] ATTGGGTGACCTGAGCTGTGCAA FLJ23544
24834 I S AGCGTGGCGTGGGGCAGCTC
24834 P C S ATGACGTGGCAGACGCCCTGCAGTGTATGY
24834 P A S CGCGCCGAGGTCCCTGCAGTGTATGTY
24834 T C S GACCACATACACTGCAGGGCAGCTGCCCCACGCCACGCTCC
24834 T A S GACCACATACACTGCAGGGAAGCTGCCCCACGCCACGCTCC
CTCAAAGGAGTATCTGATGACACTTCTGGCCTCGGGTCCTGGACCACATACACTGCAGGG[CA]AGCTGCCCCACGCCACGCTCCCCATCCCATCCTCACAC
24834 IS [CA] TTACTGGCTCAGACAGGGACCT
25001 I A CTCGAATGTAGACATGCAGGGGAAAGAAGAAAAGATTCCGTATTTTTTAA
25001 P T A CGCGCCGAGGTTCTGGCTTCCTTGAGCY
25001 P C A ATGACGTGGCAGACCTCTGGCTTCCTTGAGY
25001 T T A CTGTGCTCAAGGAAGCCAGAATAAAAAATACGGAATCTTTTCTTCTTTCCCCTGCATGTCTACATTCGAGGC
25001 T C A CTGTGCTCAAGGAAGCCAGAGTAAAAAATACGGAATCTTTTCTTCTTTCCCCTGCATGTCTACATTCGAGGC
TCTTTAAATGCCTCGAATGTAGACATGCAGGGGAAAGAAGAAAAGATTCCGTATTTTTTA[TC]TCTGGCTTCCTTGAGCACAGCTTTCTTCTCCTTGGTGTGG
25001 IS [TC] CTTACCTGAAATACTGAAGA
25005 I A GGTCTGGTTCGAGCACTCTAAGCACACCCA
25005 P C A ATGACGTGGCAGACCGAGCACTCTAGCACTY
25005 P T A CGCGCCGAGGTGAGCACTCTAGCACTGY
25005 T C A GATGCAGTGCTAGAGTGCTCGGGGTGTGCTTAGAGTGCTCGAACCAGACCTC
25005 T T A GATGCAGTGCTAGAGTGCTCAGGGTGTGCTTAGAGTGCTCGAACCAGACCTC
TCACAGAGAGAAATGGTAATTCATCTTCAGAGGTCTGGTTCGAGCACTCTAAGCACACCC[CT]GAGCACTCTAGCACTGCATCACATGACTGGTTTGTTGTG
25005 IS [CT] TGATTGTGGACACCTTCATGC
25196 I A TGGATTGGGTGTGTGAGCTCACATACCTCGTCT
25196 P G A ATGACGTGGCAGACGCTTATCTGCTGCTCACY
25196 P A A CGCGCCGAGGACTTATCTGCTGCTCACY
25196 T G A AGAGGTGAGCAGCAGATAAGCGACGAGGTATGTGAGCTCACACACCCAATCCACT
25196 T A A AGAGGTGAGCAGCAGATAAGTGACGAGGTATGTGAGCTCACACACCCAATCCACT

FIGURE 129E

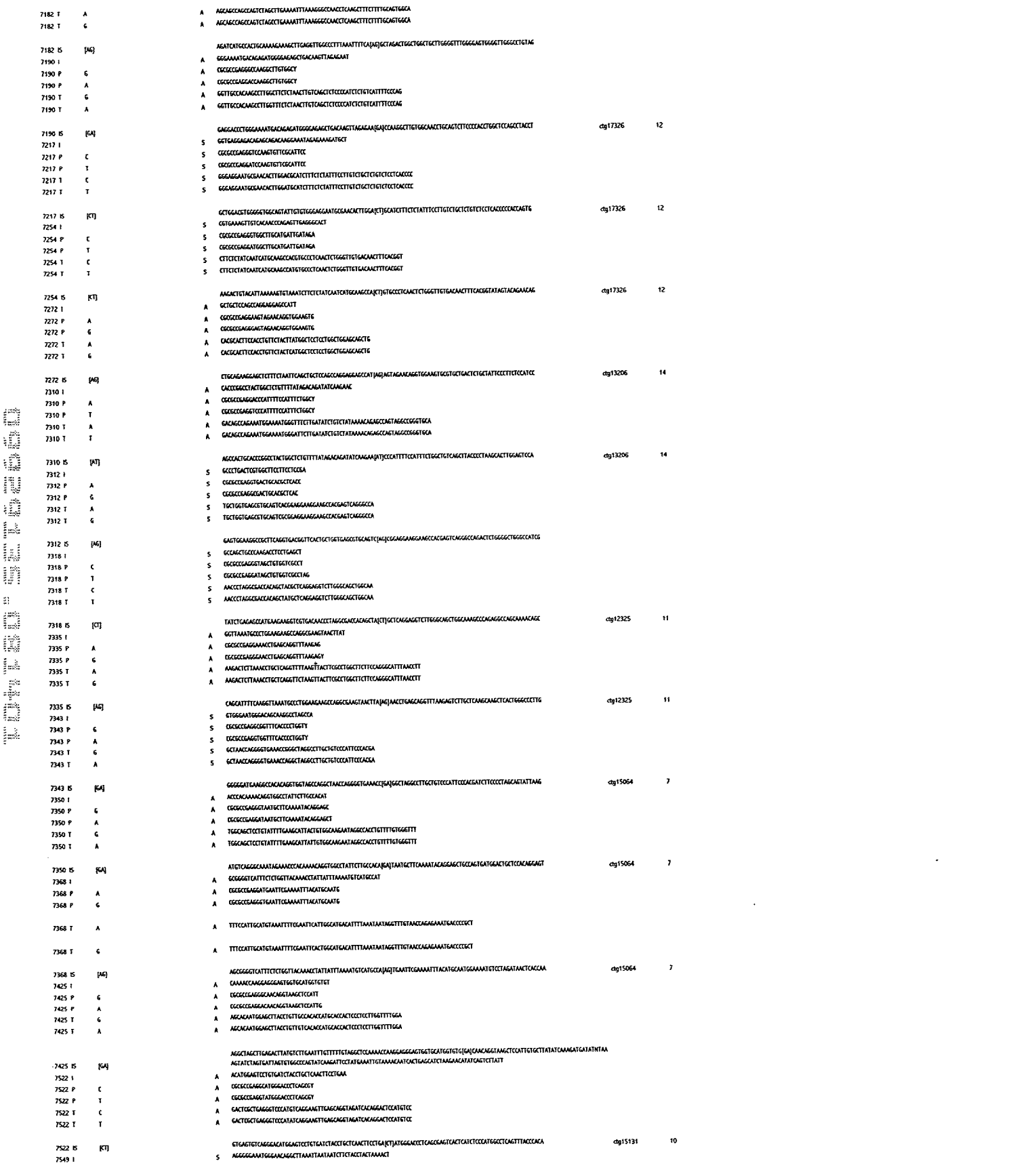
				GAGGATCTGGAAGGCAGAAGTGCCACAGTGGATTGGGTGTGTGAGCTCACATACCTCGTC[GA]CTTATCTGCTGCTCACCTCTTTGGCAGGCAACAGCAGC
25196	IS	[GA]		TGGGCCCACGCTGCCCCACCTT
25228	I		A	CACTGACCAGTACACCTCTGCAGCCCTT
25228	P	G	A	ATGACGTGGCAGACGCCCTGGCCCTTTY
25228	P	A	A	CGCGCCGAGGACCCTGGCCCTTTCY
25228	T	G	A	GGTAGAAAGGGCCAGGGCAGGGCTGCAGAGGTGTACTGGTCAGTGGG
25228	T	A	A	GGTAGAAAGGGCCAGGGTAGGGCTGCAGAGGTGTACTGGTCAGTGGG
				TACTCCAGGGTGCTGGGGCCACTCCCAGAGCCCCACTGACCAGTACACCTCTGCAGCCCT[GA]CCCTGGCCCTTTCTACCAACTCCTTGCTCTTGGTGGGT
25228	IS	[GA]		AAAGCAACAAGGGAGACCGATC
25603	I		A	CCAGCAAGCAGCTACACATCCCCTTCTCTGAC
25603	P	T	A	CGCGCCGAGGTGAGCTAACGCAATCTGY
25603	P	A	A	ATGACGTGGCAGACAGAGCTAACGCAATCTGY
25603	T	T	A	ACCCCAGATTGCGTTAGCTCATCAGAGAAGGGGATGTGTAGCTGCTTGCTGGCT
25603	T	A	A	ACCCCAGATTGCGTTAGCTCTTCAGAGAAGGGGATGTGTAGCTGCTTGCTGGCT
				GGCTAGCCCCACTCCAGGGCACCAGTGAGCCAGCAAGCAGCTACACATCCCCTTCTCTGA[TA]GAGCTAACGCAATCTGGGGTAGGGAGAGAAGCCACCC
25603	IS	[TA]		TCCCTCCCCAGAACAGACAAACA
26226	I		A	GGACCGGGATAGAATAATGCATTTGTTAGGATGGATGTTTTGAATCT
26226	P	G	A	ATGACGTGGCAGACGCAACCCAATGTGGTTY
26226	P	C	A	CGCGCCGAGGCCAACCCAATGTGGTTTY
26226	T	G	A	AGTTAAACCACATTGGGTTGCGATTCAAAACATCCATCCTAACAAATGCATTATTCTATCCCGGTCCAC
26226	T	C	A	AGTTAAACCACATTGGGTTGGGATTCAAAACATCCATCCTAACAAATGCATTATTCTATCCCGGTCCAC
				GGTTCCTGAGCTGTGGACCGGGATAGAATAATGCATTTGTTAGGATGGATGTTTTGAATC[GC]CAACCCAATGTGGTTTAACTGAAAACAGGAATGGAGTGG
26226	IS	[GC]		CTAACGGCTGCCAGGTCCTGC
26279	I		S	GAGATGGATACAGCAGCTCAGGTGGGGCT
26279	P	T	S	CGCGCCGAGGAAGGGCAGGCCTGY
26279	P	C	S	ATGACGTGGCAGACGAGGGCAGGCCTGY
26279	T	T	S	*TTTCCAGGCCTGCCCTTG*CCCCCACCTGAGCTGCTGTATCCATCTCCT
26279	T	C	S	TTTCCAGGCCTGCCCTCGCCCCACCTGAGCTGCTGTATCCATCTCCT
				TGTTTCCTTTCTGGACCATTTCCCCAGGGCCTGGCACTGTCATCTTTCCAGGCCTGCCCT[TC]GCCCCACCTGAGCTGCTGTATCCATCTCCTCTCCTTCAC
26279	IS	[TC]		CTCAGGAATCCTTAACTTCTG
27393	I		A	CCAAAGGTCTGCTATCTTGTCCTGAGCCTTTCCT
27393	P	C	A	ATGACGTGGCAGACCATCTCCTACCCAGGCY
27393	P	A	A	CGCGCCGAGGAATCTCCTACCCAGGCY
27393	T	C	A	ATGGGCCTGGGTAGGAGATGGGAAAGGCTCAGGACAAGATAGCAGACCTTTGGCC
27393	T	A	A	ATGGGCCTGGGTAGGAGATTGGAAAGGCTCAGGACAAGATAGCAGACCTTTGGCC
				CCAATGCGCTTCCCTTCGAGAGGAAGGCCAAAGGTCTGCTATCTTGTCCTGAGCCTTTCC[CA]ATCTCCTACCCAGGCCCATTGCCTTTCTCCTCCCCAGTG
27393	IS	[CA]		ATAACAGAATGACTCACTGGG

FIGURE 129F

SNP	OLIGO	PM	DC	OLIGO_SEQUENCE	GPCO	GPCH	SHORT_GENE_NAME
	4027 I		A	CTCCAGTTAACCTCATATCCAATTTTTCCTTTCCAGAAAGAAGAGATTTTATCT			
	4027 P	G	A	CGCGCCGAGGGACATCGAAAGTAAATTTGCCC			
	4027 P	A	A	CGCGCCGAGGAACATCGAAAGTAAATTTGCCCY			
	4027 T	G	A	CTTAGGGCAAATTTACTTTCGATGTCGATAAAATCTCTTCTTTCTGGAAAGGAAAAATTGGATATGAGGTTAACTGGAG			
	4027 T	A	A	CTTAGGGCAAATTTACTTTCGATGTTGATAAAATCTCTTCTTTCTGGAAAGGAAAAATTGGATATGAGGTTAACTGGAG			
	4027 IS	[GA]		CTCCAGTTAACCTCATATCCAATTTTTCCTTTCCAGAAAGAAGAGATTTTATC[GA]ACATCGAAAGTAAATTTGCCCTAAGGACCCCTGAAGACACAGCTGAGGACACTTGCCACCTCATTCCCG G	ctg13980	1	
	4752 I		A	TTTTAGTCACTATCAAATGTATTACTGACTTCTACTCACTAATGTCTTTG			
	4752 P	G	A	CGCGCCGAGGGTAAATTTTGGAGTTATCTTTTTCTTTATTTTTTY			
	4752 P	A	A	CGCGCCGAGGATAAATTTTGGAGTTATCTTTTTCTTTATTTTTTGY			
	4752 T	G	A	GTTTCAAAAAATAAAGAAAAAAGATAACTCCAAAATTTACCAAAGACATTAGTGAGTAGAAGTCAGTAATACATTTGATAGTGACTAAAA			
	4752 T	A	A	GTTTCAAAAAATAAAGAAAAAAGATAACTCCAAAATTTATCAAAGACATTAGTGAGTAGAAGTCAGTAATACATTTGATAGTGACTAAAA			
	4752 IS	[GA]		TTTTAGTCACTATCAAATGTATTACTGACTTCTACTCACTAATGTCTTTG[GA]TAAATTTTGGAGTTATCTTTTTCTTTATTTTTTGAAACTGAGTCTTGCT	ctg16586	20	
	4767 I		A	GTGCTCTTCAGGTGCGGCCTGGGTT			
	4767 P	G	A	CGCGCCGAGGGCCCAGAGCCTTCGTY			
	4767 P	C	A	CGCGCCGAGGCCCCAGAGCCTTCGTY			
	4767 T	G	A	TCTAACGAAGGCTCTGGGCACCCAGGCTGCACCTGAAGAGCACCA			
	4767 T	C	A	TCTAACGAAGGCTCTGGGGACCCAGGCCGCACCTGAAGAGCACCA			
	4767 IS	[GC]		CCGCGCCGCGGACCGAGCAGTCGTTGGTGCTCTTCAGGTGCGGCCTGGGT[GC]CCCAGAGCCTTCGTTAGACTCTCGGACCCGCAAGGCAGCCCGAACTCTTT	ctg16586	20	
	4771 I		S	CGGTGCGCTCCGCCGCCTCT			
	4771 P	G	S	CGCGCCGAGGCGCTGCAACCAGAGAGY			
	4771 P	C	S	CGCGCCGAGGGGCTGCAACCAGAGAGY			
	4771 T	G	S	TCGCCTCTCTGGTTGCAGCGGAGGCGGCGGAGCGCACCGCC			
	4771 T	C	S	TCGCCTCTCTGGTTGCAGCCGAGGCGGCGGAGGCGCACCGCC			
	4771 IS	[GC]		CCGCTGTCTCCCCGAGCCAGTGCGTTCAGCATCGCCTCTCTGGTTGCAGC[GC]GAGCCGCGCGAGCGCACCGCCCACCAGGGCTCAGGGTCCTCCGACCGGGT	ctg16586	20	
	4801 I		A	CACAGGTTCCCCATAAGAAAAATCAAAATCAGGGAAAATGAAACCACAAC			
	4801 P	T	A	CGCGCCGAGGTGGTTCAATCTGCTCTGACY			
	4801 P	A	A	CGCGCCGAGGAGGTTCAATCTGCTCTGACY			
	4801 T	T	A	AAAGGTCAGAGCAGATTGAACCATTGTGGTTTCATTTTCCCTGATTTTGATTTTTCTTATGGGGAACCTGTGT			
	4801 T	A	A	AAAGGTCAGAGCAGATTGAACCTTGTGGTTTCATTTTCCCTGATTTTGATTTTTCTTATGGGGAACCTGTGT			
	4801 IS	[TA]		ACACAGGTTCCCCATAAGAAAAATCAAAATCAGGGAAAATGAAACCACAA[TA]GGTTCAATCTGCTCTGACCTTTGAAAAACTCAGCACAGATAGTGGCACTT	ctg16586	20	
	4807 I		S	GCCACAAGGCAGGAGTCATCTCCAGGCAA			
	4807 P	G	S	CGCGCCGAGGCGTCCTTGGCCTGGAY			
	4807 P	A	S	CGCGCCGAGGTGTCCTTGGCCTGGAGY			
	4807 T	G	S	TGGGCTCCAGGCCAAGGACGTGCCTGGAGATGACTCCTGCCTTGTGGCGC			
	4807 T	A	S	TGGGCTCCAGGCCAAGGACATGCCTGGAGATGACTCCTGCCTTGTGGCGC			
	4807 IS	[GA]		AAAGTCAGGCACCACCAGGAGCTTGTCCCTATGGGCTCCAGGCCAAGGAC[GA]TGCCTGGAGATGACTCCTGCCTTGTGGCGCTGTCACTGCCTCACTGTCCA	ctg14210	12	
	4808 I		A	TGTAGATTTGTTCTGCCTGGTTTTGACTTCTATAAAATACAGCACATTCT			
	4808 P	G	A	CGCGCCGAGGGTTTAGCCTGGCTTCTTTGGY			
	4808 P	A	A	CGCGCCGAGGATTTAGCCTGGCTTCTTTGGY			
	4808 T	G	A	TGAACCAAAGAAGCCAGGCTAAACAGAATGTGCTGTATTTTATAGAAGTCAAAACCAGGCAGAACAAATCTACA			
	4808 T	A	A	TGAACCAAAGAAGCCAGGCTAAATAGAATGTGCTGTATTTTATAGAAGTCAAAACCAGGCAGAACAAATCTACA			
	4808 IS	[GA]		TGTAGATTTGTTCTGCCTGGTTTTGACTTCTATAAAATACAGCACATTCT[GA]TTTAGCCTGGCTTCTTTGGTTCAGTATTACAGAACACATCCATGTTCTTG	ctg14210	12	
	4820 I		S	GCATTGTGGGACACACAGAGGGCCCCAGA			
	4820 P	A	S	CGCGCCGAGGTCGCTCCCCGCCY			
	4820 P	G	S	CGCGCCGAGGCCGCTCCCCGCCY			
	4820 T	A	S	TCGAGGCGGGGAAGCGACTGGCGCCCTTCTGTGTCCCACAATGCTT			
	4820 T	G	S	TCGAGGCGGGGAAGCGACTGGCGCCCTTCTGTGTCCCACAATGCTT			
	4820 IS	[AG]		TCATCACTGAAACTTGGCGGCCGCGCAATCGAAGCTCGAGCGCGGGGAGCG[AG]CTGGCGCCCTTCTGTGTCCCACAATGCTTCCCGGCGCGCCTCAGCCCCCA	ctg14210	12	
	6990 I		S	TGGTAAATCCAGGTGCAAAACAGAACTCAAGTTAAGGCCTCA			
	6990 P	G	S	CGCGCCGAGGCGCACAGCACTGCG			
	6990 P	A	S	CGCGCCGAGGTGCACAGCACTGCGY			
	6990 T	G	S	AGAACGCAGTGCTGTGCAGAGGCCTAACTTGAGTTCTGTTTGCACCTGGATTTACCAGC			
	6990 T	A	S	AGAACGCAGTGCTGTGCAGAGGCCTAACTTGAGTTCTGTTTGCACCTGGATTTACCAGC			
	6990 IS	[GA]		CACAGCACACTAGAGTAAGAATCCTTCACAGTTAGAACGCAGTGCTGTGC[GA]GAGGCCTTAACTTGAGTTCTGTTTTGCACCTGGATTTACCAGCACATCAA			DKFZP434P211
	7037 I		S	CTTGTTGAAATTCAGAGATCCCCTCCCCTACCAT			
	7037 P	T	S	CGCGCCGAGGATACACACCAAATCAGACGC			
	7037 P	C	S	CGCGCCGAGGGTACACACCAAATCAGACGC			
	7037 T	T	S	AGAGGCGTCTGATTTGGTGTGTATTGGTAGGGGGAGGGGGATCTCTGAATTTCAACAAGTT			
	7037 T	C	S	AGAGGCGTCTGATTTGGTGTGTACTGGTAGGGGGAGGGGGATCTCTGAATTTCAACAAGTT			
	7037 IS	[TC]		CTCTGAGAGCCAAATTCAGATCTGGTCAGAGGCGTCTGATTTGGTGTGTA[TC]TGGTAGGGGGAGGGGGATCTCTGAATTTCAACAAGTTTTCTCCCTCTAGG			
	7047 I		S	GAGGACTTAAAGAAATGGGTTTAGTTGTTTGCAAAAGTCCATCTTTGGAT			
	7047 P	T	S	CGCGCCGAGGAGATTTCTCAACCCTTCCTY			
	7047 P	C	S	CGCGCCGAGGGGATTTCTCAACCCTTCCTY			
	7047 T	T	S	GTCAAGGAAGGGGTGAGAAATCTTCCAAAGATGGACTTTTGCAAACAACTAAAACCCATTTCTTTAAGTCCTC			
	7047 T	C	S	GTCAAGGAAGGGGTGAGAAATCCTCCAAAGATGGACTTTTGCAAACAACTAAAACCCATTTCTTTAAGTCCTC			
	7047 IS	[TC]		TGGGGTCCCCAGCCCCTCCCTCCCTCATGTCAAGGAAGGGGTGAGAAATC[TC]TCCAAAGATGGACTTTTGCAAACAACTAAAACCCATTTCTTTAAGTCCTC	ctg22fin4	22	
	7088 I		A	GAACTCCAAACTCCTTTCTATTCTTGTCAGGCAGAAAGCGATTGT			
	7088 P	G	A	CGCGCCGAGGGCCTGGGCTGGTTAGY			
	7088 P	A	A	CGCGCCGAGGACCTGGGCTGGTTAGC			
	7088 T	G	A	CCAGGCTAACCAGCCCAGGCCAATCGCTTTCTGCCTGACAAAGAATAGAAAGGAGTTTGGAGTTCAA			
	7088 T	A	A	CCAGGCTAACCAGCCCAGGTCAATCGCTTTCTGCCTGACAAAGAATAGAAAGGAGTTTGGAGTTCAA			
	7088 IS	[GA]		TGGTTGAACTCCAAACTCCTTTCTATTCTTTGTCAGGCAGAAAGCGATTG[GA]CCTGGGCTGGTTAGCCTGGTCTCATCTCCATGCTCAAAAGCTATGTCAG	ctg22fin4	22	
	7106 I		S	GAAGGACCCATTTCTCCACACACATTTGCCTACCCT			
	7106 P	T	S	CGCGCCGAGGAGCGCTCACACCCACG			
	7106 P	G	S	CGCGCCGAGGCGCTCACACCCAC			
	7106 T	T	S	GATGCGTGGGTGTGAGCGTGGGTAGGCAAATGTGTGTGGAGAAATGGGTCCTTCTT			
	7106 T	G	S	GATGCGTGGGTGTGAGCGGGGGTAGGCAAATGTGTGTGCAGAAATGGGTCCTTCTT			
	7106 IS	[TG]		AGTTCAATGAAGAGGACAGTGGAAATGTGTGTGATGCGTGGGTGTGAGCG[TG]GGGTAGGCAAATGTGTGTGGAGAAATGGGTCCTTCTTTGATGAGGCTTCA	ctg22fin4	22	
	7182 I		A	CCACTGCAAAAGAAAGCTTGAGGTTGGCCCTTAAATTTTCAT			
	7182 P	A	A	CGCGCCGAGGAGCTAGACTGGCTGGC			
	7182 P	G	A	CGCGCCGAGGGGCTAGACTGGCTGGC			

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FIGURE 129F



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FIGURE 129F

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7549 P   C    S  CGCGCCGAGGGAAAAGAATGATTGTAATTTCTTAAATTGTCT
7549 P   T    S  CGCGCCGAGGAAAAAGAATGATTGTAATTTCTTAAATTGTCTC

7549 T   C    S  TTCAGAGACAATTTAAGAAATTACAATCATTCTTTTGGTTTAGTAGGTAGAAGATTATTAATTTAAGCCTGTTCCCATTTCCCCCT

7549 T   T    S  TTCAGAGACAATTTAAGAAATTACAATCATTCTTTTGTTTTAGTAGGTAGAAGATTATTAATTTAAGCCTGTTCCCATTTCCCCCT

7549 IS  [CT]                 GGTTTATTTAGTGTTTCAGAGACAATTTAAGAAATTACAATCATTCTTT[CT]GTTTTAGTAGGTAGAAGATTATTAATTTAAGCCTGTTCCCATTTCCCCCT  ctg16263  1
7568 I       A    GGAATCCTGAAACCCACCTGACTCTTCTACTCTTGAAAAATTACGCT
7568 P   A   A    CGCGCCGAGGAGAGAATGTCCTCAGACATAGG
7568 P   G   A    CGCGCCGAGGGAGAATGTCCTCAGACATAG
7568 T   A   A    TGACCCTATGTCTGAGGACATTCTCTGCGTAATTTTTCAAGAGTAGAAGAGTCAGGTGGGTTTCAGGATTCCAC
7568 T   G   A    TGACCCTATGTCTGAGGACATTCTCCGCGTAATTTTTCAAGAGTAGAAGAGTCAGGTGGGTTTCAGGATTCCAC

7568 IS  [AG]                 GAGTGGAATCCTGAAACCCACCTGACTCTTCTACTCTTGAAAAATTACGC[AG]GAGAAATGTCCTCAGACATAGGGTCAGACAAGAACTTCGACATACATTTTA
7571 I       A    TCTCACGCCAGCCACACTCTGTTAACGAGCT
7571 P   G   A    CGCGCCGAGGGTCAAGCTGGGCTTCC
7571 P   A   A    CGCGCCGAGGATCAAGCTGGGCTTCCT
7571 T   G   A    TTCAAGGAAGCCCAGCTTGACGCTCGTTAACAGAGTGTGGCTGGCGTGAGAGC
7571 T   A   A    TTCAAGGAAGCCCAGCTTGATGCTCGTTAACAGAGTGTGGCTGGCGTGAGAGC

7571 IS  [GA]                 GCTGACCAGCCTGCTATCGCTCTCACGCCAGCCACACTCTGTTAACGAGC[GA]TCAAGCTGGGCTTCCTTGAAGTAGACCGAGCTCTTACCAACATCTGCCAA  ctg2712   15
7576 I       S    TGTCTGAGGAAAGTAATTAAGCCACAAAGAGTGACCTTGCCCC
7576 P   C   S    CGCGCCCGAGGGTAGTTAGAAATCAAGTCTATAGCAGTT
7576 P   A   S    CGCGCCCGAGGTTAGTTAGAAATCAAGTCTATAGCAGTTAG

7576 T   C   S    TATTCTAACTGCTATAGACTTGATTTCTAACTACGGGCAAGTCACTCTTTGTGGCTTAATTACTTTCCTCACACAAT

7576 T   A   S    TATTCTAACTGCTATAGACTTGATTTCTAACTAAGGGCAAGTCACTCTTTGTGGCTTAATTACTTTCCTCACACAAT

7576 IS  [CA]                 GTCTCATTATTAATTACTATTCTAACTGCTATAGACTTGATTTCTAACTA[CA]GGGCAAGTCACTCTTTGTGGCTTAATTACTTTCCTCACACAATTTTAATA  ctg19030  5
7582 I       S    GGTCCTCCCCGCTGCTCCCCTCCT
7582 P   C   S    CGCGCCGAGGGAGCTCCTGCTGGTTGT
7582 P   T   S    CGCGCCGAGGAGAGCTCCTGCTGGTTGT
7582 T   C   S    CAGCACAACCACCAGGAGCTCGGAGGGGAGCAGCGGGAGGAACCTT
7582 T   T   S    CAGCACAACCACCAGGAGCTTGGAGGGGAGCAGCGGGAGGACCTT

7582 IS  [CT]                 CAGAGATGAGGCAGCCCCGAAGGCCTCAAACAGCACACCACCAGGAGC[CT]GGAGGGGCAGCAGCGGGAGGACCTTAGTTTTAGTTTAAAACTTGGCAGAA  ctg13446  1
7585 I       S    ACCTGAGTCACGGGCAGCTTCATCCAT
7585 P   C   S    CGCGCCGAGGGCACAGGAGCTTGCG
7585 P   T   S    CGCGCCGAGGACACAGGAGCTTGCGT
7585 T   C   S    GCCCACGCAAGCTCCTGTGCTGGATGAAGCTGCCCCGTGACTCAGGTTC
7585 T   T   S    GCCCACGCAAGCTCCTGTGTTGGATGAAGCTGCCCCGTGACTCAGGTTC

7585 IS  [CT]                 GGCCACCCCCAGGCAGGGCCATCCATCTGTGCCCACGCAAGCTCCTGTG[CT]TGGATGAAGCTGCCCCGTGACTCAGGTTCTGACTCAGCGCCAGCTAGGTG  ctg13446  1
7590 I       A    CCCGGCCATGCTGGCCCCCA
7590 P   C   A    CGCGCCGAGGCCCGGTCTCGCGT
7590 P   T   A    CGCGCCGAGGTCCCGTCTCGCGTTC
7590 T   C   A    TCCGCAACGCGACGACCGGGGCGCGCCAGCATCGCCGCGAG
7590 T   T   A    TCCGCAACGCGAGACCGGAGCGCGCCAGCATCGCCGGGAG

7590 IS  [CT]                 ACCCCCGCCCCCAGCCAGGCCCCATCCATCTGTGCCCACGCAAGCTCCTGTG[CT]CCGGTCTCGCGTTCCGGATCCCCTCACCTGCGTAGCACGGTGGGCTCGGG  ctg13446  1  KIAA1649
7592 I       A    GCCATCAAAAGTTTCTGAGCTGGGGCAT
7592 P   G   A    CGCGCCGAGGAGTGTATGACCTTACCTTAGGAY
7592 P   C   A    CGCGCCGAGGGTGTATGACCTTACCTTAGGAY
7592 T   G   A    ACCTTCCTAAGGTAAGGTCATACACCTGCCCCAGCTCAGAAACTTTTGATGGCTC
7592 T   C   A    ACCTTCCTAAGGTAAGGTCATACACGTGCCCCAGCTCAGAAACTTTTGATGGCTC

7592 IS  [GC]                 CTTTTTCTCATGGGAAATAAAGAGCCATCAAAAGTTTCTGAGCTGGGGCA[GC]GTGTATGACCTTACCTTAGGAAGGTTTTTTGTTTTTGTTTTTGTTTTACT  ctg14391  11
7596 I       A    GAGGCAGGAAGAGGAGGCCCTGTCA
7596 P   T   A    CGCGCCGAGGTGCCTCCACCTCTGG
7596 P   C   A    CGCGCCGAGGCGCCTCCACCTCTGG
7596 T   T   A    GCACCCAGAGGTGGAGGCAGACAGGCCCTCCTTCCTGGCCTCCT
7596 T   C   A    GCACCCAGAGGTGGAGGCGGACAGGGCCCTCCTTCCTGGCCTCCT

7596 IS  [TC]                 GCAGGGGTGAGGGTGGCCTGGCCCAGGAGGCCAGGAAGCAGGGCCCTGTC[TC]GCCTCCACCTCTGGGTGCACCCCCTGCCTACCACCCTCCCTCCTAGAGAG
7597 I       S    GGCCACTTGGTATTACTTTGAAACTCCTCCTCCTGGAGATAGAT
7597 P   C   S    CGCGCCGAGGGTCTCATTTTCATGAATTTGGTATTCC
7597 P   T   S    CGCGCCGAGGATCTCATTTTCATGAATTTGGTATTCC
7597 T   C   S    AAAAGGAATACCAAATTCATGAAAATGAGACTCTATCTCCAGGAGAAGGAGTTTCAAAGTAATACCAAGTGGCCAA
7597 T   T   S    AAAAGGAATACCAAATTCATGAAAATGAGATTCTATCTCCAGGAGAGGAGTTTCAAAGTAATACCAAGTGGCCAA

7597 IS  [CT]                 TGCCTCTAGGAGGAGAGTTTAAAGGAATACCAAATTCATGAAAATGAGA[CT]TCTATCTCCAGGAGAGGAGTTTCAAAGTAATACCAAGTGGCCAAAGAGCC  ctg13206  14
7600 I       S    TGTGCATGTGTGAATTTACTTATGGGAGGCAAGTTAACATGTTCTTAGTGA
7600 P   A   S    CGCGCCGAGGTTTAATATGGACCAGACTCTGGT
7600 P   G   S    CGCGCCGAGGCTTAATATGGACCAGACTCTGG

7600 T   A   S    CACTACCAGAGTCTGGTCCATATTAAACACTAAGAACATGTTAACTTGCCTCCCATAAGTAAATTCACACATGCACA

7600 T   G   S    CACTACCAGAGTCTGGTCCATATTAAGCACTAAGAACATGTTAACTTGCCTCCCATAAGTAAATTCACACATGCACA

7600 IS  [AG]                 ATTAAATGACTTAATACAGCTAAGCACTACCAGAGTCTGGTCCATATTAA[AG]CACTAAGAACATGTTAACTTGCCTCCCATAAGTAAATTCACACATGCACA  ctg53  14
7601 I       S    GAACAAATCAGTACACCCCTCAACTGTGTGCTC
7601 P   A   S    CGCGCCGAGGTTGTGCAGTAGCATGCTTC
7601 P   C   S    CGCGCCGAGGGTGTGCAGTAGCATGCTT
7601 T   A   S    ATTACAAGCATGCTACTGCACAAAGCACACAGTTGAGGGGTGTACTGATTTGTTCTC
7601 T   C   S    ATTACAAGCATGCTACTGCACACAGCACACAGTTGAGGGGTGTACTGATTTGTTCTC

7601 IS  [AC]                 TGTGACCGTTACAAAGGGTCAGAGTCTTCATTAGAAGCATGCTACTGCACA[AC]AGCACACAGTTGAGGGGTGTACTGATTTGTTCTCTTTATTTGGAGGTGCA  ctg15944  11
7603 I       A    GATTTTTTTTTTCTGTCTTTTAACTTGATCTCATCTTCTTAGGAGAAACC
7603 P   T   A    CGCGCCGAGGTTTTCGGCAGAAGTCCCT
7603 P   A   A    CGCGCCGAGGATTTTCGGCAGAAGTCCCT
7603 T   T   A    CTATGGGACTTCTGCCGAAAAAGGTTTCTCCTAAGAAGATGAGATCAAGTTAAAAGACAGAAAAAAAAAATC
7603 T   A   A    CTATGGGACTTCTGCCGAAAATGGTTTCTCCTAAGAAGATGAGATCAAGTTAAAAGACAGAAAAAAAAAATC

7603 IS  [TA]                 GATTTTTTTTTCTGTCTTTTAACTTGATCTCATCTTCTTAGGAGAAACC[TA]TTTTCGGCAGAAGTCCCATAGGTCCTGGCTGTGGACTTGTATTCACACAG  ctg22fm4  22
7626 I       S    GATGCAGCAGTAAGGCAAATCACGGTGATTGCTCTA
7626 P   G   S    CGCGCCGAGGCACAGTCAAGTACGACTATGTGY
7626 P   A   S    CGCGCCGAGGTACAGTCAAGTACGACTATGTGT
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FIGURE 129F

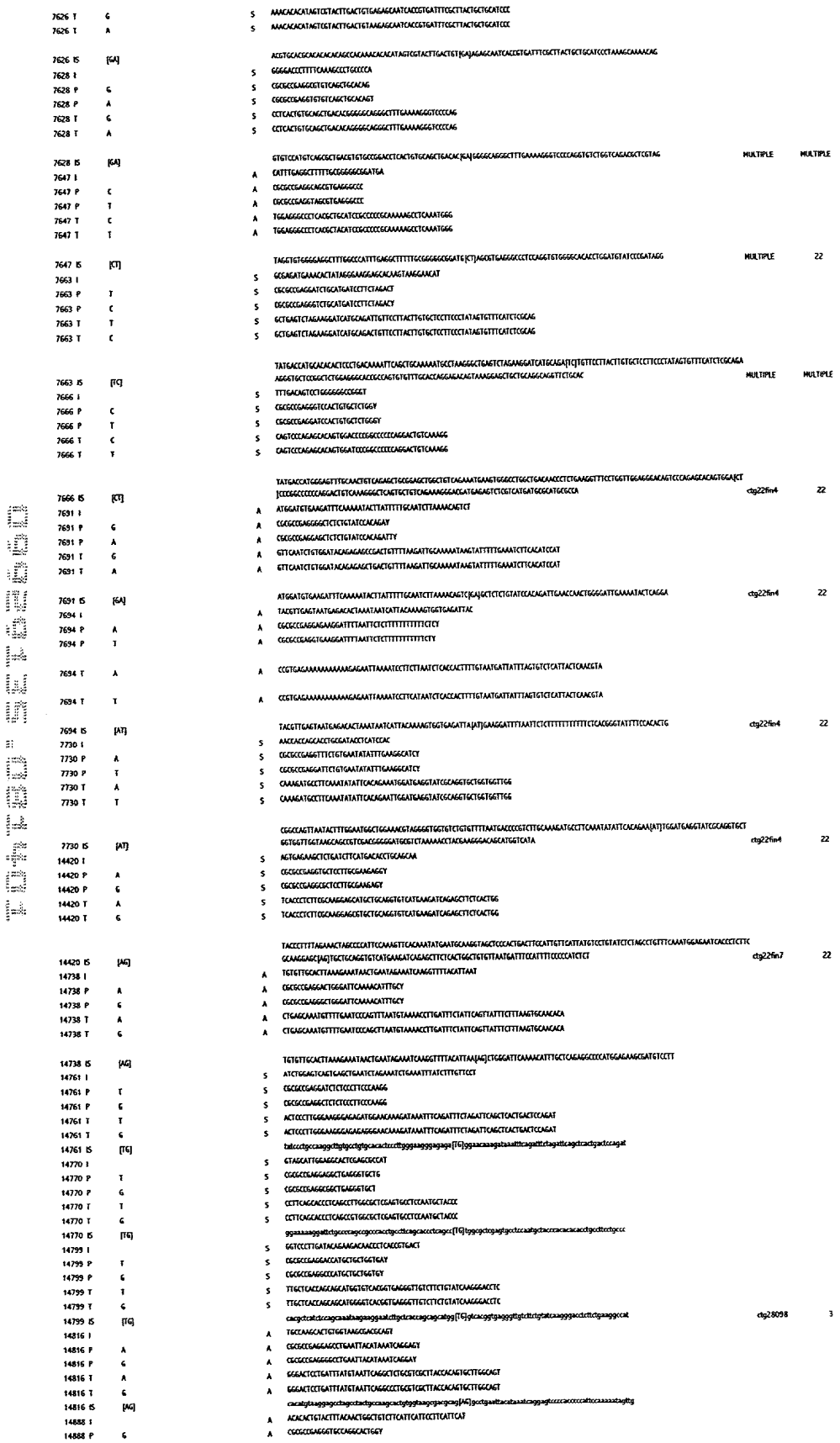


FIGURE 129F

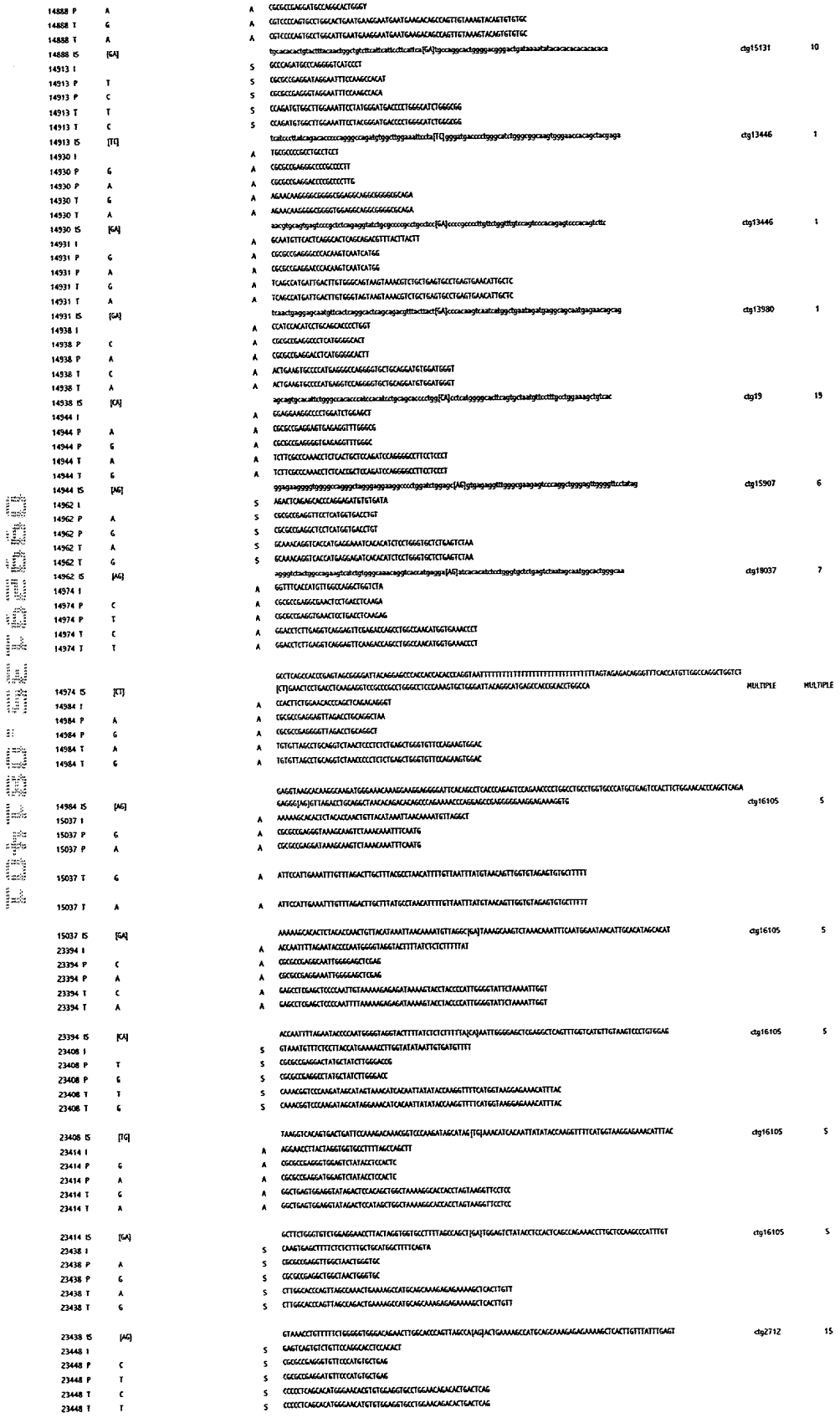


FIGURE 129F

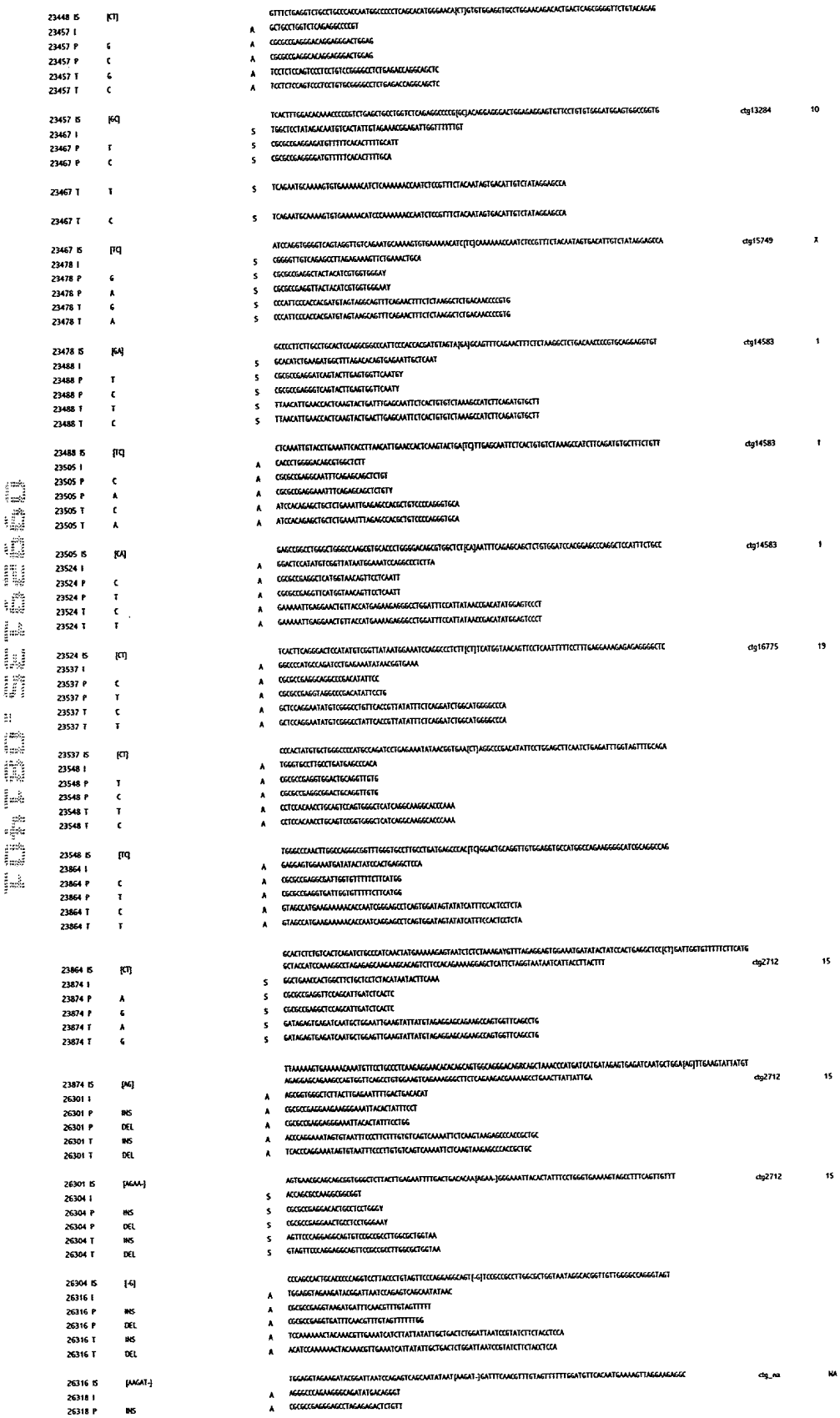

23448 IS [CT] GTTTCTGAGGTCTGCCTGCCCACCAATGGCCCCCTCAGCACATGGGAAACA[CT]GTGTGGAGGTGCCTGGAACAGACACTGACTCAGCGGGGTTCTGTACAGAG
23457 I A GCTGCCTGGTCTCAGAGGCCCCGT
23457 P G A CGCGCCCAGGGCACAGGAGGGACTGGAG
23457 P C A CGCGCCCAGGCACAGGAGGGACTGGAG
23457 T G A TCCTCTCCAGTCCCTCCTGTCCGGGGGCCTCTGAGACCAGGCAGCTC
23457 T C A TCCTCTCCAGTCCCTCCTGTGCGGGGGCCTCTGAGACCAGGCAGCTC
23457 IS [GC] TCACTTTGGACACAAACCCCCGTCTGAGCTGCCTGGTCTCAGAGGCCCCG[GC]ACAGGAGGCACTGGAGAGGAGTGTTCCTGTGTGGGATGGAGTGGCCGGTG ctg13284 10
23467 I S TGGCTCCTATAGACAATGTCACTATTGTAGAAACGGAGATTGGTTTTTTGT
23467 P T S CGCGCCCAGAGGAGATGTTTTTCACACTTTTGCATT
23467 P C S CGCGCCCAGAGGGATGTTTTTCACACTTTTGCA
23467 T T S TCAGAATGCAAAAGTGTGAAAAACATCTCAAAAAACCAATCTCCGTTTCTACAATAGTGACATTGTCTATAGGAGCCA
23467 T C S TCAGAATGCAAAAGTGTGAAAAACATCCCAAAAAACCAATCTCCGTTTCTACAATAGTGACATTGTCTATAGGAGCCA
23467 IS [TC] ATCCAGGTGGGGTCAGTAGGTTGTCAGAATGCAAAAGTGTGAAAAACATC[TC]CAAAAAACCAATCTCCGTTTCTACAATAGTGACATTGTCTATAGGAGCCA ctg15749 X
23478 I S CGGGGTTGTCAGAGCCTAGAGAAAGTTCTGAAACTGCA
23478 P G S CGCGCCGAGGCTACTACATCGTGGTGGGAY
23478 P A S CGCGCCGAGGTTACTACATCGTGGTGGGAAY
23478 T G S CCCATTCCCACCACGATGTAGTAGGCAGTTTCAGAACTTTCTCTAAGGCTCTGACAACCCCGTG
23478 T A S CCCATTCCCACCACGATGTAGTAAGCAGTTTCAGAACTTTCTCTAAGGCTCTGACAACCCCGTG
23478 IS [GA] GCCCCTTCTTGCCTGCACTCCAGGCGGCCCATTCCCACCACGATGTAGTA[GA]GCAGTTTCAGAACTTTCTCTAAGGCTCTGACAACCCCGTGCAGGAGGTGT ctg14583 1
23488 I S GCACATCTGAAGATGGCTTTAGACACAGTGAGAATTGCTCAAT
23488 P T S CGCGCCGAGGATCAGTACTTGAGTGGTTCAATGY
23488 P C S CGCGCCGAGGGTCAGTACTTGAGTGGTTCAATY
23488 T T S TTAACATTGAACCACTCAAGTACTGATTYGAGCAATTCTCACTGTGTCTAAAGCCATCTTCAGATGTGCTT
23488 T C S TTAACATTGAACCACTCAAGTACTGACTTGAGCAATTCTCACTGTGTCTAAAGCCATCTTCAGATGTGCTT
23488 IS [TC] CTCAAATTGTACCTGAAATTCACCTTAACATTGAACCACTCAAGTACTGA[TC]TTGAGCAATTCTCACTGTGTCTAAAGCCATCTTCAGATGTGCTTTCTGTT ctg14583 1
23505 I A CACCCTGGGGACAGCGTGGCTCTT
23505 P C A CGCGCCGAGGCAATTTCAGAGCAGCTCTGT
23505 P A A CGCGCCGAGGAAATTTCAGAGCAGCTCTGTY
23505 T C A ATCCACAGAGCTGCTCTGAAATTTAGAGCCACGCTGTCCCCAGGGTGCA
23505 T A A ATCCACAGAGCTGCTCTGAAATTTAGAGCCACGCTGTCCCCAGGGTGCA
23505 IS [CA] GAGCCGGCCTGGGCTGGGCCAAGCGTGCACCCTGGGGACAGCGTGGCTCT[CA]AATTTCAGAGCAGCTCTGTGGATCCACGGAGCCCAGGCTCCATTTCTGCC ctg14583 1
23524 I A GGACTCCATATGTCGGTTATAATGGAAATCCAGGCCCTCTT
23524 P C A CGCGCCGAGGCTCATGGTAACAGTTCCTCAATT
23524 P T A CGCGCCGAGGTTCATGGTAACAGTTCCTCAATT
23524 T C A GAAAAATTGAGGAACTGTTACCATGAGAAGAGGGCCTGGATTTCCATTATAACCGACATATGGAGTCCCT
23524 T T A GAAAAATTGAGGAACTGTTACCATGAAAGAGGGCCTGGATTTCCATTATAACCGACATATGGAGTCCCT
23524 IS [CT] TCACTTCAGGGACTCCATATGTCGGTTATAATGGAAATCCAGGCCCTCTT[CT]TCATGGTAACAGTTCCTCAATTTTTCCTTTGAGGAAAGAGAGAGGGGCTC ctg16775 19
23537 I A GGCCCCATGCCAGATCCTGAGAAATATAACGGTGAAA
23537 P C A CGCGCCGAGGCAGCCCGACATATTCC
23537 P T A CGCGCCGAGGTAGGCCCGACATATTCCTG
23537 T C A GCTCCAGGAATATGTCGGGCCTGTTCACCGTTATATTTCTCAGGATCTGGCATGGGGCCCA
23537 T T A GCTCCAGGAATATGTCGGGCCTATTCACCGTTATATTTCTCAGGATCTGGCATGGGGCCCA
23537 IS [CT] CCCACTATGTGCTGGGCCCCATGCCAGATCCTGAGAAATATAACGGTGAA[CT]AGGCCCGACATATTCCTGGAGCTTCAATCTGAGATTTGGTAGTTTGCAGA
23548 I A TGGGTGCCTTGCCTGATGAGCCCACA
23548 P T A CGCGCCGAGGTGCACTGCAGGTTGTG
23548 P C A CGCGCCGAGGCGCACTGCAGGTTGTG
23548 T T A CCTCCACAACCTGCAGTCCAGTGGGCTCATCAGGCAAGGCACCCAAA
23548 T C A CCTCCACAACCTGCAGTCCGGTGGGCTCATCAGGCAAGGCACCCAAA
23548 IS [TC] TGGGCCCAACTTGGCCAGGGCGGTTTGGGTGCCTTGCCTGATGAGCCCAC[TC]GGACTGCAGGTTGTGCAGGTGCCATGCCAGAAGGGGCATCGCAGGCCAG
23864 I A GAGGAGTGGAAATGATATACTATCCACTGAGGCTCCA
23864 P C A CGCGCCGAGGCGATTGGTGTTTTTCTTCATGG
23864 P T A CGCGCCGAGGTGATTGGTGTTTTTCTTCATGG
23864 T C A GTAGCCATGAAGAAAAACACCAATCGGGAGCCTCAGTGGATAGTATATCATTTCCACTCCTCTA
23864 T T A GTAGCCATGAAGAAAAACACCAATCAGGAGCCTCAGTGGATAGTATATCATTTCCACTCCTCTA
23864 IS [CT] GCACTCTCTGTCACTCAGATCTGCCCATCAACTATGAAAAAGAGTAATCTCTCTAAAGAYGTTTAGAGGAGTGGAAATGATATACTATCCACTGAGGCTCC[CT]GATTGGTGTTTTTCTTCATG
23874 I S GGCTGAATCACTGGCTTCTGCTCCTCTACATAATACTTCAAA
23874 P A S CGCGCCGAGGTTCCAGCATTGATCTCACTC
23874 P G S CGCGCCGAGGCTCCAGCATTGATCTCACTC
23874 T A S GATAGAGTGAGATCAATGCTGGAATTGAAGTATTATGTAGAGGAGCAGAAGCCAGTGGTTCAGCCTG
23874 T G S GATAGAGTGAGATCAATGCTGGAGTTGAAGTATTATGTAGAGGAGCAGAAGCCAGTGGTTCAGCCTG
23874 IS [AG] GCTACCATCCAAAGCCTAGAGAGCAAGAAGCACAGTCTCCACAGAAAAGGAGCTCATTCTAGGTAATAATCATTACCTTACTTT ctg2712 15
26301 I A AGCGGTGGGCTCTTACTTGAGAATTTTGACTGACACAT
26301 P INS A CGCGCCGAGGAAGAAGGGAAATTACACTATTTCCT
26301 P DEL A CGCGCCGAGGAGGGGAAATTACACTATTTCCTGG
26301 T INS A ACCCAGGAAATAGTGTAATTTCCCTTCTTTGTGTCAGTCAAAATTCTCAAGTAAGAGCCCACCGCTGC
26301 T DEL A TCACCCAGGAAATAGTGTAATTTCCCTTGTGTCAGTCAAAATTCTCAAGTAAGAGCCCACCGCTGC
26301 IS [AGAA-] AGTGAACGCAGCAGCGGTGGGCTCTTACTTGAGAATTTTGACTGACACAA[AGAA-]GGGAAATTACACTATTTCCTGGGTGAAAAGTAGCCTTTCAGTTGTTT ctg2712 15
26304 I S ACCAGCGCCAAGGCGGCGGT
26304 P INS S CGCGCCGAGGACACTGCCTCCTGGGY
26304 P DEL S CGCGCCGAGGAACTGCCTCCTGGGAAY
26304 T INS S AGTTCCCAGGAGGCAGTGTCCGCCGCCTTGGCGCTGGTAA
26304 T DEL S GTAGTTCCCAGGAGGCAGTTCCGCCGCCTTGGCGCTGGTAA
26304 IS [-G] CCCAGCCACTGCACCCCCAGGTCCTTACCCTGTAGTTCCCAGAGGCAGT[-G]TCCGCCGCCTTGGCGCTGGTAATAGGCACGGTTGTTGGGGCCAGGGTAGT
26316 I A TGGAGGTAGAAGATACGGATTAATCCAGAGTCAGCAATATAAC
26316 P INS A CGCGCCGAGGTAAGATGATTTCAACGTTTGTAGTTTTT
26316 P DEL A CGCGCCGAGGTGATTTCAACGTTTGTAGTTTTTTGG
26316 T INS A TCCAAAAACTACAAACGTTGAAATCATCTATTATATTGCTGACTCTGGATTAATCCGTATCTTCTACCTCCA
26316 T DEL A ACATCCAAAAAACTACAAACGTTGAAATCATTATATTGCTGACTCTGGATTAATCCGTATCTTCTACCTCCA
26316 IS [AAGAT-] TGGAGGTAGAAGATACGGATTAATCCAGAGTCAGCAATATAAT[AAGAT-]GATTTCAACGTTTGTAGTTTTTTGGATGTTCACAATGAAAAGTTAGGAAGAGGC ctg_na NA
26318 I A AGGGCCCAGAAGGGCAGATATGACAGGCT
26318 P INS A CGCGCCGAGGAGGCCTAGAGAGACTCTGTT

FIGURE 129F

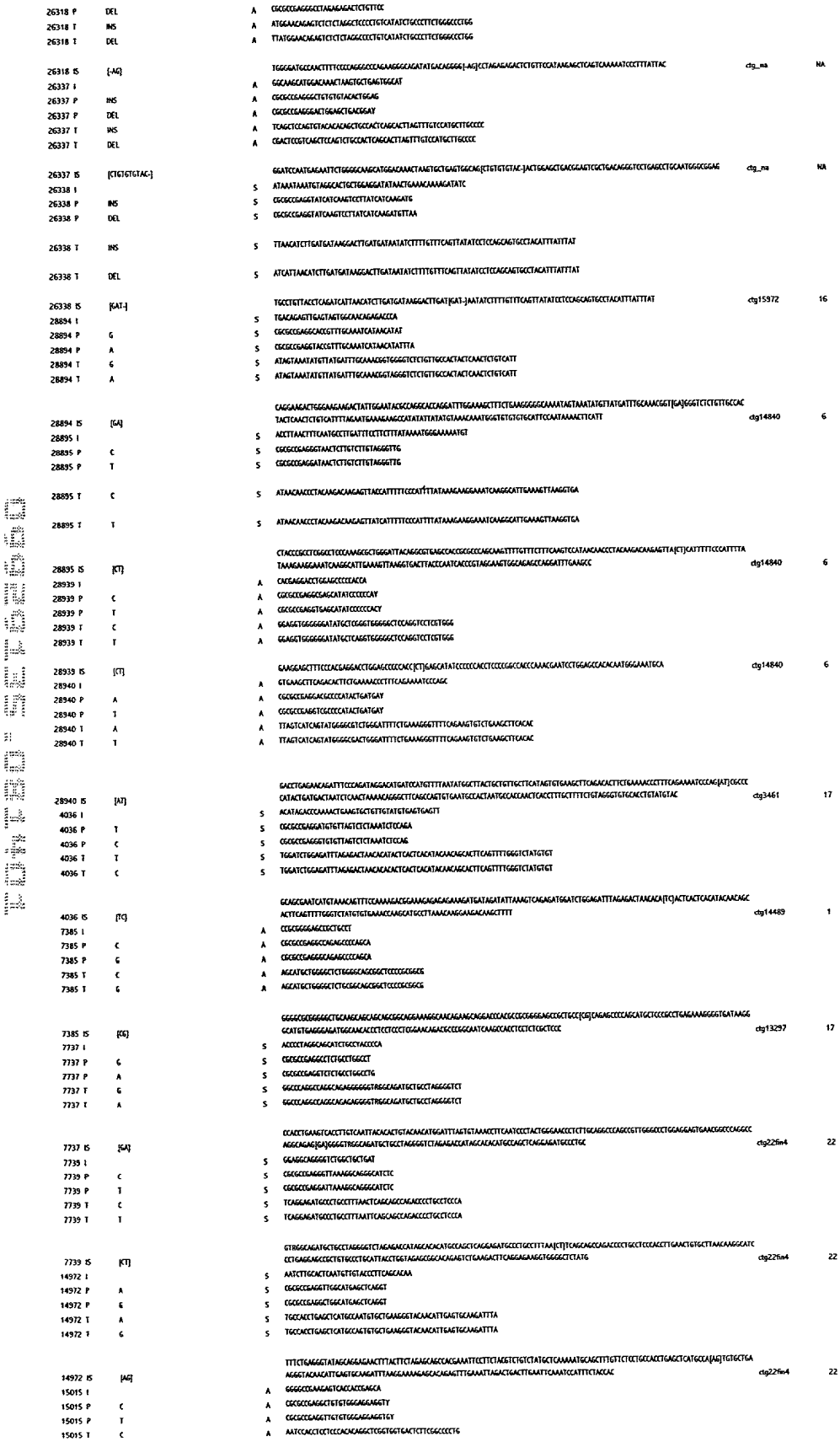

26318 P DEL A CGCGCCCAGGGCCTAGAGAGACTCTGTTCC
26318 I INS A ATGGAACAGAGTCTCTCTAGGCTCCCCTGTCATATCTGCCCTTCTGGGCCCTGG
26318 I DEL A TTATGGAACAGAGTCTCTCTAGGCCCCTGTCATATCTGCCCTTCTGGGCCCTGG
26318 IS {-AG} TGGGGATGCCAACTTTTCCCCAGGGCCCCAGAAGGGCAGATATGACACGGGG[-AG]CCTAGAGAGACTCTGTTCCATAAGAGCTCAGTCAAAAATCCCTTTATTAC ctg_na NA
26337 I A GGCAAGCATGGACAAACTAAGTGCTGAGTGGCAT
26337 P INS A CGCGCCCAGGGCCTGTGTGTACACTGGAG
26337 P DEL A CGCGCCCAGGGACTGGAGCTGACGGAY
26337 T INS A TCAGCTCCAGTGTACACACAGCTGCCACTCAGCACTTAGTTTGTCCATGCTTGCCCC
26337 T DEL A CGACTCCGTCAGCTCCAGTCTGCCACTCAGCACTTAGTTTGTCCATGCTTGCCCC
26337 IS {CTGTGTGTAC-} GGATCCAATGAGAATTCTGGGGCAAGCATGGACAAACTAAGTGCTGAGTGGCAG[CTGTGTGTAC-]ACTGGAGCTGACGGAGTCGCTGACAGGGTCCTGAGCCTGCAATGGGCGGAG ctg_na NA
26338 I S ATAAATAAATGTAGGCACTGCTGGAGGATATAACTGAAACAAAGATATC
26338 P INS S CGCGCCGAGGTATCATCAAGTCCTTATCATCAAGATG
26338 P DEL S CGCGCCGAGGTATCAAGTCCTTATCATCAAGATGTTAA
26338 T INS S TTAACATCTTGATGATAAGGACTTGATGATAATATCTTTTGTTTCAGTTATATCCTCCAGCAGTGCCTACATTTATTTAT
26338 T DEL S ATCATTAACATCTTGATGATAAGGACTTGATAATATCTTTTGTTTCAGTTATATCCTCCAGCAGTGCCTACATTTATTTAT
26338 IS {GAT-} TGCCTGTTACCTCAGATCATTAACATCTTGATGATAAGGACTTGAT[GAT-]AATATCTTTTGTTTCAGTTATATCCTCCAGCAGTGCCTACATTTATTTAT ctg15972 16
28894 I S TGACAGAGTTGAGTAGTGGCAACAGAGACCCA
28894 P G S CGCGCCGAGGCACCGTTTGCAAATCATAACATAT
28894 P A S CGCGCCGAGGTACCGTTTGCAAATCATAACATATTTA
28894 T G S ATAGTAAATATGTTATGATTTGCAAACGGTGGGGTCTCTGTTGCCACTACTCAACTCTGTCATT
28894 T A S ATAGTAAATATGTTATGATTTGCAAACGGTAGGGTCTCTGTTGCCACTACTCAACTCTGTCATT
28894 IS {GA} CAGGAAGACTGGGAAGAAGACTATTGGAATACGCCAGGCACCAGGATTTGGAAAGCTTTCTGAAGGGGGCAAAATAGTAAATATGTTATGATTTGCAAACGGT[GA]GGGTCTCTGTTGCCAC TACTCAACTCTGTCATTTTAGAATGAAAGAAGCCATATATTATATGTAAACAAATGGGTGTGTGCATTCCAATAAAACTTCATT ctg14840 6
28895 I S ACCTTAACTTTCAATGCCTTGATTTCCTTCTTTATAAAATGGGAAAAATGT
28895 P C S CGCGCCGAGGGTAACTCTTGTCTTGTAGGGTTG
28895 P T S CGCGCCGAGGATAACTCTTGTCTTGTAGGGTTG
28895 T C S ATAACAACCCTACAAGACAAGAGTTACCATTTTCCCATTTTATAAAGAAGGAAATCAAGGCATTGAAAGTTAAGGTGA
28895 T T S ATAACAACCCTACAAGACAAGAGTTATCATTTTTCCCATTTTATAAAGAAGGAAATCAAGGCATTGAAAGTTAAGGTGA
28895 IS {CT} CTACCCGCCTCGGCCTCCCAAAGCGCTGGGATTACAGGCGTGAGCCACCGCGCCCAGCAAGTTTTGTTTCTTTCAAGTCCATAACAACCCTACAAGACAAGAGTTA[CT]CATTTTTCCCATTTTA TAAAGAAGGAAATCAAGGCATTGAAAGTTAAGGTGACTTACCCAATCACCCGTAGCAAGTGGCAGAGCCAGGATTTGAAGCC ctg14840 6
28939 I A CACGAGGACCTGGAGCCCCCACCA
28939 P C A CGCGCCGAGGCGAGCATATCCCCCCAY
28939 P T A CGCGCCGAGGTGAGCATATCCCCCCACY
28939 T C A GGAGTGGGGGGATATGCTCCGGTGGGGGCTCCAGGTCCTCGTGGG
28939 T T A GGAGCTGGGGGGATATGCTCAGGTGGGGGCTCCAGGTCCTCGTGGG
28939 IS {CT} GAAGGAGCTTTCCCACGAGGACCTGGAGCCCCCACC[CT]GAGCATATCCCCCCACCTCCCCGGCCACCCAAACGAATCCTGGAGCCACACAATGGGAAATGCA ctg14840 6 PTPN1
28940 I A GTGAAGCTTCAGACACTTCTGAAAACCCTTTCAGAAAATCCCAGC
28940 P A A CGCGCCGAGGACGCCCCATACTGATGAY
28940 P T A CGCGCCGAGGTCGCCCCCATACTGATGAY
28940 T A A TTAGTCATCAGTATGGGGCGTCTGGGATTTTCTGAAAGGGTTTTCAGAAGTGTCTGAAGCTTCACAC
28940 T T A TTAGTCATCAGTATGGGGCGACTGGGATTTTCTGAAAGGGTTTTCAGAAGTGTCTGAAGCTTCACAC
28940 IS {AT} GACCTGAGAACAGATTTCCCAGATAGGACATGATCCATGTTTTAATATGGCTTACTGCTGTTGCTTCATAGTGTGAAGCTTCAGACACTTCTGAAAACCCTTTCAGAAAATCCCAG[AT]CGCCC CATACTGATGACTAATCTCAACTAAAACAGGGCTTCAGCCAGTGTGAATGCCACTAATGCCACTAACTCACCTTGCTTTCTGTAGGGTGTGCACCTGTATGTAC ctg3461 17
4036 I S ACATAGACCCAAAACTCAAGTGCTGTTGTATGTGAGTGAGTT
4036 P T S CGCGCCGAGGATGTGTTAGTCTCTAAATCTCCAGA
4036 P C S CGCGCCGAGGGTGTGTTAGTCTCTAAATCTCCAG
4036 T T S TGGATCTGGAGATTTAGAGACTAACACATACTCACTCACATACAACAGCACTTCAGTTTTGGGTCTATGTGT
4036 T C S TGGATCTGGAGATTTAGAGACTAACACACACTCACTCACATACAACAGCACTTCAGTTTTGGGTCTATGTGT
4036 IS {TC} GCAGCGAATCATGTAAACAGTTTCCAAAAGACGGAAAGAGAGACAGAAAGATGATAGATATTAAAGTCAGAGATGGATCTGGAGATTTAGAGACTAACACA[TC]ACTCACTCACATACAACAGC ACTTCAGTTTTGGGTCTATGTGTGAAACCAAGCATGCCTTAAACAAGGAAGACAAGCTTTT ctg14489 1
7385 I A CCGCGGGGAGCCGCTGCCT
7385 P C A CGCGCCGAGGCCAGAGCCCCAGCA
7385 P G A CGCGCCGAGGGCAGAGCCCCAGCA
7385 T C A AGCATGCTGGGGCTCTGGGGCAGCGGCTCCCCGCGGCG
7385 T G A AGCATGCTGGGGCTCTGCGGCAGCGGCTCCCCGCGGCG
7385 IS {CG} GGGCGCGCGGGGCTGCAGCAGCAGCAGCGGCAGGAAAGGCAACAGAAGCAGGACCCACGCCGCGGGGAGCCGCTGCC[CG]CAGAGCCCCAGCATGCTCCCGCCTGAGAAAGGGGTGATAAGG GCATGTGAAGGGAGATGGCAACACCTCCTCCCTGCGAACAGACGCCCGGCAATCAAGCCACCTCCTCTCGCTCCC ctg13297 17
7737 I S ACCCCTAGGCAGCATCTGCCYACCCCA
7737 P G S CGCGCCGAGGCCTCTGCCTGCCT
7737 P A S CGCGCCGAGGTCTCTGCCTGCCTG
7737 T G S GGCCCAGGCCAGGCAGAGGGGGTRGGCAGATGCTGCCTAGGGGTCT
7737 T A S GGCCCAGGCCAGGCAGAGGGGTRGGCAGATGCTGCCTAGGGGTCT
7737 IS {GA} CCACCTGAAGTCACCTTGTCAATTACACACTGTACAACATGGATTTAGTGTAAACCTTCAATCCCTACTGGGAACCCTCTTGCAGGCCCAGCCGTTGGGGCCTGGAGGAGTGAACGGCCCAGGCC AGGCAGAG[GA]GGGGTRGGCAGATGCTGCCTAGGGGTCTAGAGACCATAGCACACATGCCAGCTCAGGAGATGCCCTGC ctg22fm4 22
7739 I S GGAGGCAGGGGTCTGGCTGCTGAT
7739 P C S CGCGCCGAGGGTTAAAGGCAGGGCATCTC
7739 P T S CGGGCCGAGGATTAAAGGCAGGGCATCTC
7739 T C S TCAGGAGATGCCCTGCCTTAACTCAGCAGCCAGACCCCTGCCTCCCA
7739 T T S TCAGGAGATGCCCTGCCTTAATTCAGCAGCCAGACCCCTGCCTCCCA
7739 IS {CT} GTRGGCAGATGCTGCCTAGGGGTCTAGAGACCATAGCACACATGCCAGCTCAGGAGATGCCCTGCCTTTAA[CT]TCAGCAGCCAGACCCCTGCCTCCCACCTTGAACTGTGCTTAACAAGGCATC CCTGAGGAGCCGCTGTGCCCTGCATTACCTGGTAGAGCGGCACAGAGTCTGAAGACTTCAGGAGAAGGTGGGGCTCTATG ctg22fm4 22
14972 I S AATCTTGCACTCAATGTTGTACCCTTCAGCACAA
14972 P A S CGCGCCGAGGTTGGCATGAGCTCAGGT
14972 P G S CGCGCCGAGGCTGGCATGAGCTCAGGT
14972 T A S TGCCACCTGAGCTCATGCCAATGTGCTGAAGGGTACAACATTGAGTGCAAGATTTA
14972 T G S TGCCACCTGAGCTCATGCCAGTGTGCTGAAGGGTACAACATTGAGTGCAAGATTTA
14972 IS {AG} TTTCTGAGGGTATAGCAGGAGAACTTTACTTCTAGAGCAGCCACGAAATTCCTTCTACGTCTGTCTATGCTCAAAATGCAGCTTTGTTCTCCTGCCACCTGAGCTCATGCCA[AG]TGTGCTGA AGGGTACAACATTGAGTGCAAGATTTAAGCAAAAGAGCACAGAGTTTGAAATTAGACTGACTTGAATTCAAATCCATTTCTACCAC ctg22fm4 22
15015 I A GGGGCCCAAGAGTCACCACCGAGCA
15015 P C A CGCGCCGAGGCTGTGTGGCAGCAGGTGY
15015 P T A CGCGCCGAGGTTGTGTGGCAGCAGGTGY
15015 T C A AATCCACCTCCTCCCACACAGGCTCGGTGGTGACTCTTCGGCCCCTG

FIGURE 129F

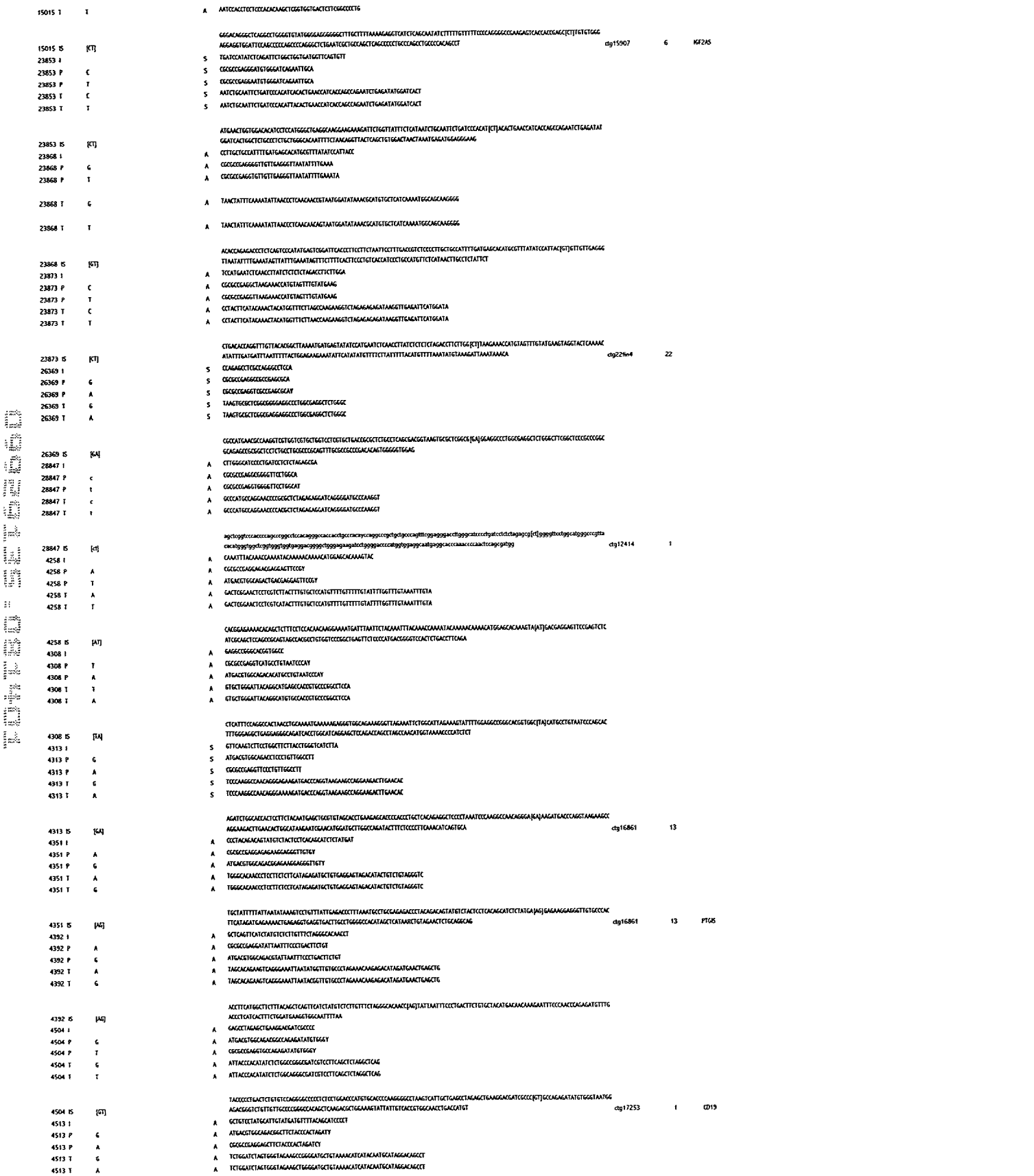


FIGURE 129F

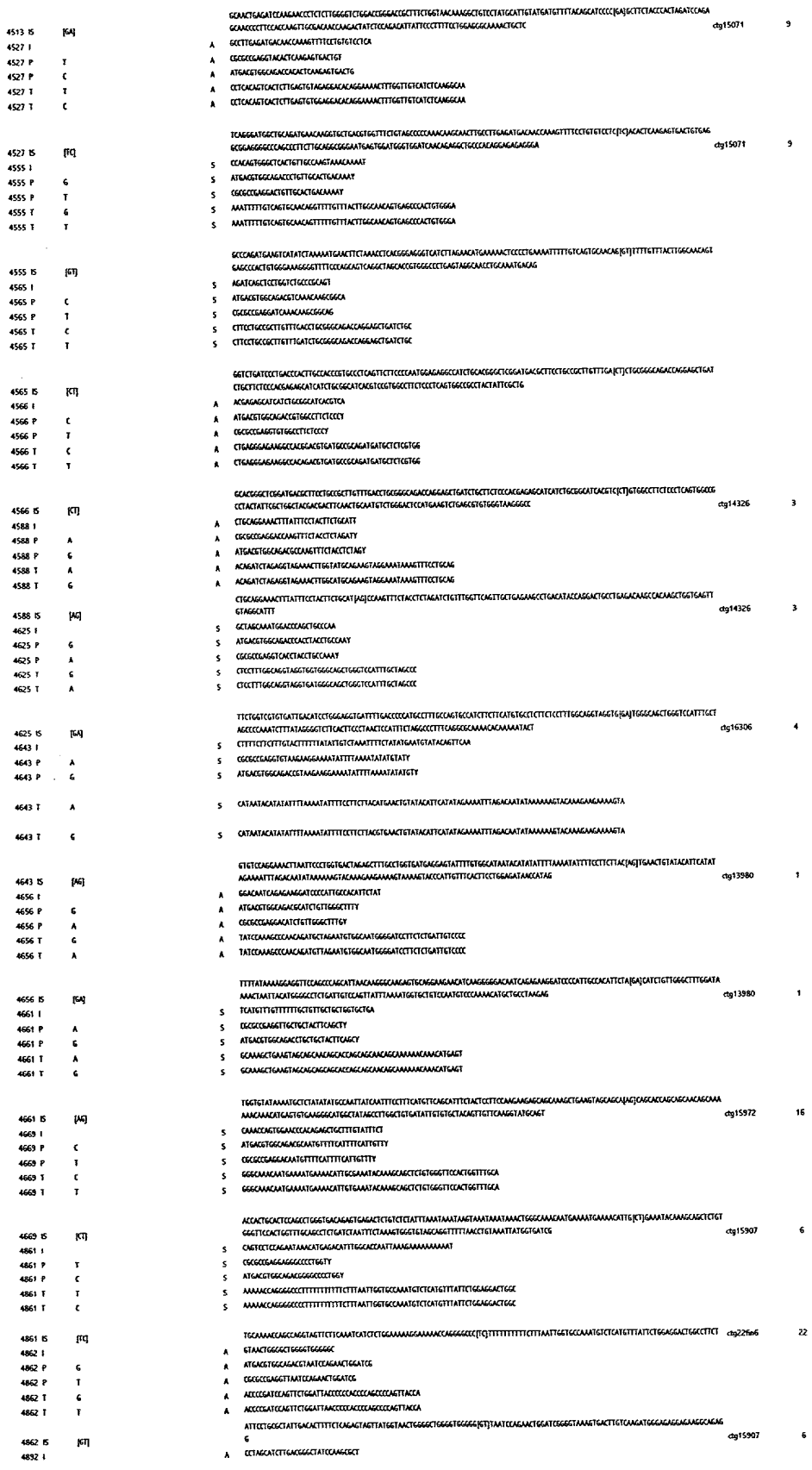


FIGURE 129F

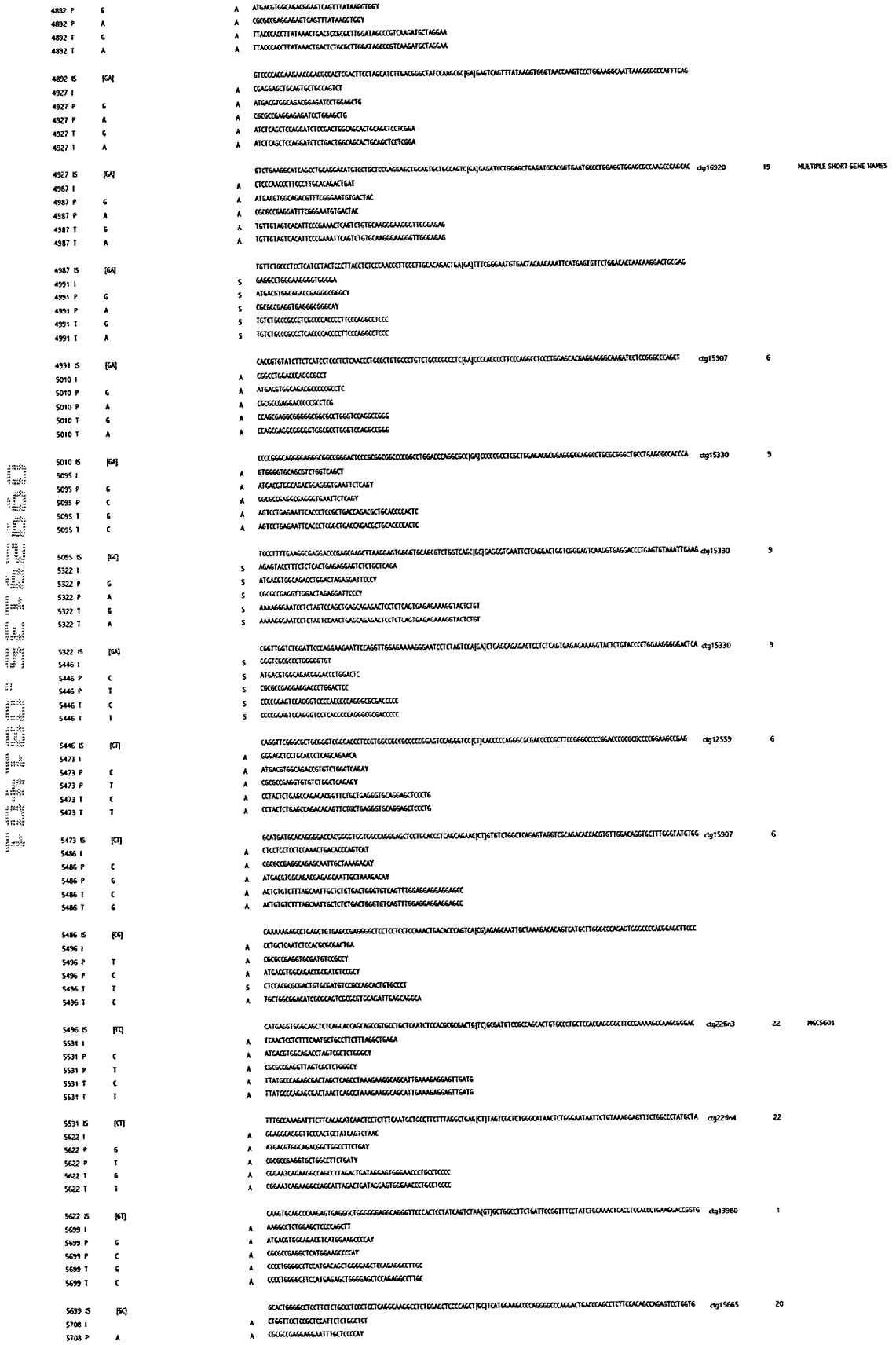
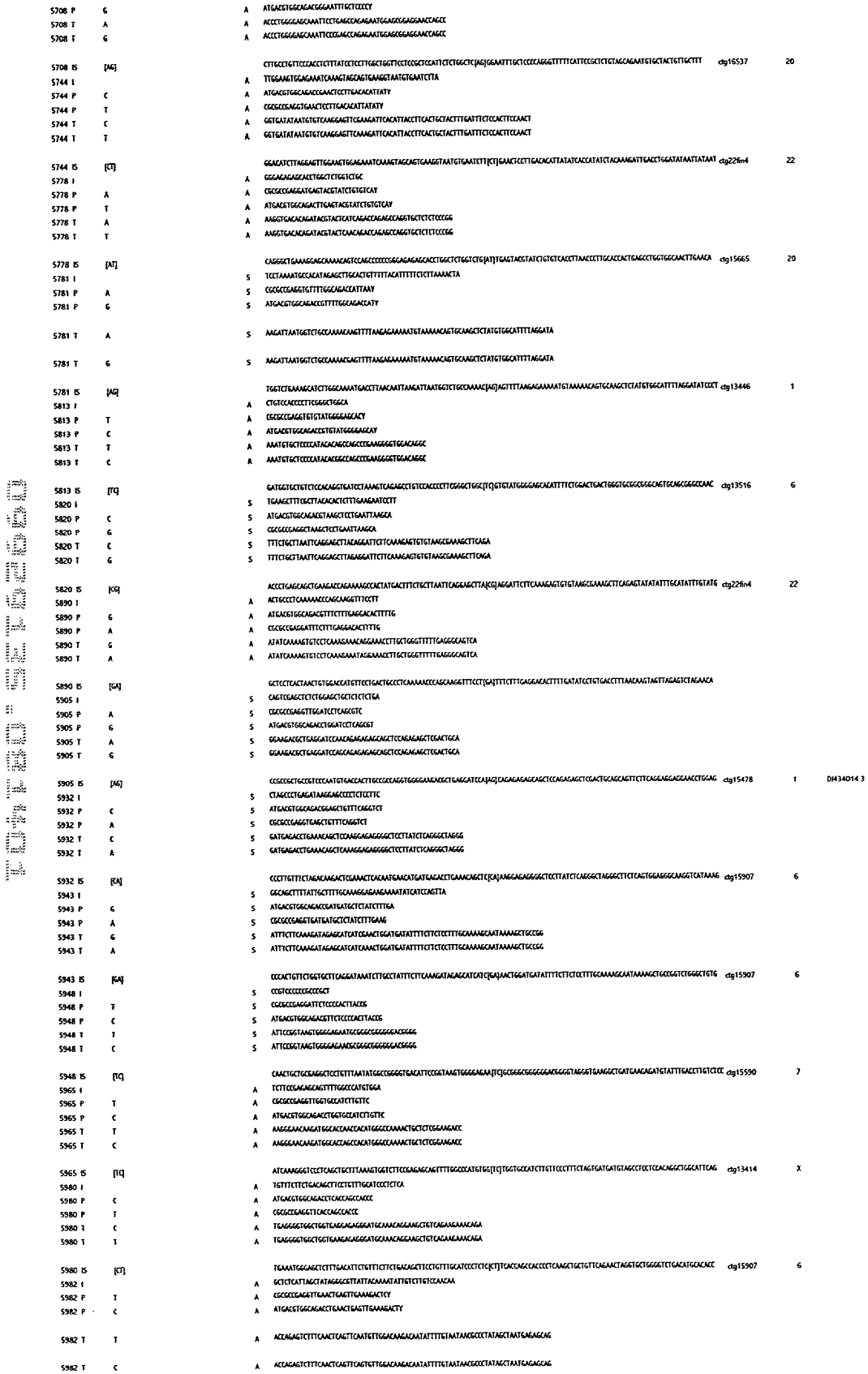
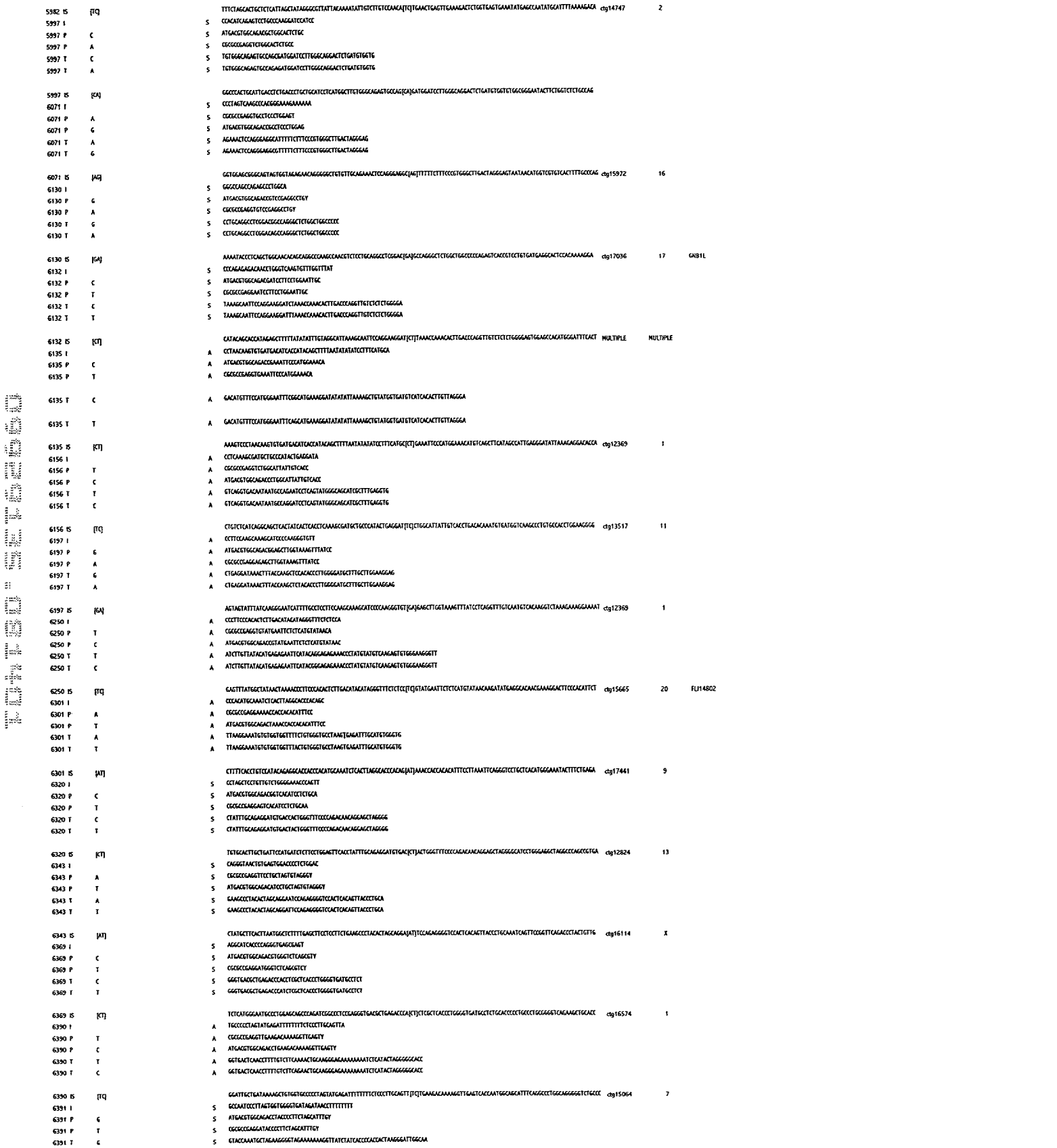

4892 P G A ATGACGTGGCAGACGGAGTCAGTTTATAAGGTGGY
4892 P A A CGCGCCGAGGAGAGTCAGTTTATAAGGTGGY
4892 T G A TTACCCACCTTATAAACTGACTCCGCGCTTGGATAGCCCGTCAAGATGCTAGGAA
4892 T A A TTACCCACCTTATAAACTGACTCTGCGCTTGGATAGCCCGTCAAGATGCTAGGAA
4892 IS [GA] GTCCCCACGAAGAACGGACGCGCACTCGACTTCCTAGCATCTTGACGGGCTATCCAAGCGC[GA]GAGTCAGTTTATAAGGTGGGTAACCAAGTCCCTGGAAGGCAATTAAGGGCCCCATTTCAG
4927 I A CGAGGAGCTGCAGTGCTGCCAGTCT
4927 P G A ATGACGTGGCAGACGGAGATCCTGGAGCTG
4927 P A A CGCGCCGAGGAGAGATCCTGGAGCTG
4927 T G A ATCTCAGCTCCAGGATCTCCGACTGGCAGCACTGCAGCTCCTCGGA
4927 T A A ATCTCAGCTCCAGGATCTCTGACTGGCAGCACTGCAGCTCCTCGGA
4927 IS [GA] GTCTGAAGGCATCAGCCTGCAGGCACATGTCCTGCTCCCAGGAGCTGCAGTGCTGCCAGTC[GA]GAGATCCTGGAGCTGAGATGCACGGTGAATGCCCTGGAGGTGGAGCGCCAAGCCCAGCAC ctg16920 19 MULTIPLE SHORT GENE NAMES
4987 I A CTCCCAACCCTTCCCTTGCACAGACTGAT
4987 P G A ATGACGTGGCAGACGTTTCGGGAATGTGACTAC
4987 P A A CGCGCCGAGGATTTCGGGAATGTGACTAC
4987 T G A TGTTGTAGTCACATTCCCGAAACTCAGTCTGTGCAAGGGAAGGGTTGGGAGAG
4987 T A A TGTTGTAGTCACATTCCCGAAATTCAGTCTGTGCAAGGGAAGGGTTGGGAGAG
4987 IS [GA] TGTTCTGCCCTCCTCATCCTACTCCCTTACCTCTCCCAACCCTCCCTTGCACAGACTGA[GA]TTTCGGGAATGTGACTACAACAAATTCATGAGTGTTCTGGACACCAACAAGGACTGCGAG
4991 I S GAGGCCTGGGAAGGGGTGGGGA
4991 P G S ATGACGTGGCAGACCGAGGGCGGGCY
4991 P A S CGCGCCGAGGTGAGGGCGGGCAY
4991 T G S TGTCTGCCCGCCCTCGCCCCACCCCTTCCCAGGCCTCCC
4991 T A S TGTCTGCCCGCCCTCACCCCACCCCTTCCCAGGCCTCCC
4991 IS [GA] CACCGTGTATCTTCTCATCCTCCCTCTCAACCCTGCCCTGTGCCCTGTCTGCCCGCCCTC[GA]CCCCACCCCTTCCCAGGCCTCCCTGGAGCACGAGGAGGGCAAGATCTCCGGGCCCAGCT ctg15907 6
5010 I A CGGCCTGGACCCAGGCGCCT
5010 P G A ATGACGTGGCAGACGCCCCCGCCTC
5010 P A A CGCGCCGAGGAACCCCGCCTCG
5010 T G A CCAGCGAGGCGGGGGGCGGCGCTGGGTCCAGGCCGGG
5010 T A A CCAGCGAGGCGGGGGGTGGCGCCTGGGTCCAGGCCGGG
5010 IS [GA] CCCCGGGCAGGCGAGGGCGGCCGGGACTCCCGCGGCGGCCCCCGGCCTGGACCCAGGCGCC[GA]CCCCCGCCTCGCTGGAGACGCGGAGGGCGAGGCCTGCGCGGCTGCCTGAGCGCCACCCA ctg15330 9
5095 I A GTGGGGTGCAGCGTCTGGTCAGCT
5095 P G A ATGACGTGGCAGACGGAGGTGAATTCTCAGY
5095 P C A CGCGCCGAGGCAGGGTGAATTCTCAGY
5095 T G A AGTCCTGAGAATTCACCCTCGGCTGACCAGACGCTGCACCCCACTC
5095 T C A AGTCCTGAGAATTCACCCTCGGCTGACCAGACGCTGCACCCCACTC
5095 IS [GC] TCCCTTTTGAAGGCGAGGACCCGAGCGAGCTTAAGGAGTGGGGTGCAGCGTCTGGTCAGC[GC]GAGGGTGAATTCTCAGGACTGGTCGGGAGTCAAGGTGAGGACCCTGAGTGTAAATTGAAG ctg15330 9
5322 I S AGAGTACCTTTCTCTCACTGACAGGAGTCTCTGCTCAGA
5322 P G S ATGACGTGGCAGACCTGGACTAGAGGATTCCCY
5322 P A S CGCGCCGAGGTTGGACTAGAGGATTCCCY
5322 T G S AAAAGGGAATCCTCTAGTCCAGCTGAGCAGAGACTCCTCTCAGTGAGAGAAAGGTACTCTGT
5322 T A S AAAAGGGAATCCTCTAGTCCAACTGAGCAGAGACTCCTCTCAGTGAGAGAAAGGTACTCTGT
5322 IS [GA] CGATTGGTCTGGATTCCCAGGAAGAATTCCAGGTTGGAGAAAAGGGAATCCTCTAGTCCA[GA]CTGAGCAGAGACTCCTCTCAGTGAGAGAAAGGTACTCTGTACCCCTGGAAGGGGGACTCA ctg15330 9
5446 I S GGGTCGGGCCCTGGGGGTGT
5446 P C S ATGACGTGGCAGACGGACCCTGGACTC
5446 P T S CGCGCCGAGGAGCACCCTGGACTCC
5446 T C S CCCCGGAGTCCAGGGTCCCCACCCCCAGGGCGCGACCCCC
5446 T T S CCCCGGAGTCCAGGGTCCTCACCCCCAGGGCGCGACCCCC
5446 IS [CT] CAGGTTCGGGGCGCTGGGGGTCGGGACCCTCCGTGGCCGCCGCCCCCGGAGTCCAGGGTCC[CT]CACCCCCAGGGCGCGACCCCCGCTTCCGGGCCCCCGGACCCGCGCGCCCCGGAAGCCGAG ctg12559 6
5473 I A GGGAGCTCCTGCACCCTCAGCAGAACA
5473 P C A ATGACGTGGCAGACCGTGTCTGGCTCAGAY
5473 P T A CGCGCCGAGGTGTGTCTGGCTCAGAY
5473 T C A CCTACTCTGAGCCAGACAGGTTCTGCTGAGGGTGCAGGAGCTCCCTG
5473 T T A CCTACTCTGAGCCAGACACAGTTCTGCTGAGGGTGCAGGAGCTCCCTG
5473 IS [CT] GCATGATGCACAGGGGACCACGGGGTGGTGGCCAGGGAGCTCCTGCACCCTCAGCAGAAC[CT]GTGTCTGGCTCAGAGTAGGTCGCAGACACCACGTGTTGGACAGGTGCTTTGGGTATGTGG ctg15907 6
5486 I A CTCCTCCTCCTCCAAACTGACACCCAGTCAT
5486 P C A CGCGCCGAGGCAGAGCAATTGCTAAAGACAY
5486 P G A ATGACGTGGCAGACGAGAGCAATTGCTAAAGACAY
5486 T C A ACTGTGTCTTTAGCAATTGCTCTGACTGGGTGTCAGTTTGGAGGAGGAGGAGGC
5486 T G A ACTGTGTCTTTAGCAATTGCTCTGACTGGGTGTCAGTTTGGAGGAGGAGGAGGC
5486 IS [CG] CAAAAAGAGCCTGAGCTGTGAGCCGAGGGGCTCCTCCTCCTCCAAACTGACACCCAGTCA[CG]AGAGCAATTGCTAAAGACACAGTCATGCTTGGGCCCAGAGTGGGCCCCACGGAGCTTCCC
5496 I A CCTGCTCAATCTCCACGCGCGCACTGA
5496 P T A CGCGCCGAGGTGCGATGTCCGCCY
5496 P C A ATGACGTGGCAGACCGCGATGTCCGCY
5496 T T S CTCCACGCGCGACTGTGCGATGTCCGCCAGCACTGTGCCCC
5496 T C A TGCTGGCGGACATCGCGCAGTCGCGCGTGGAGATTGAGCAGGCA
5496 IS [TC] CATGAGGTGGGCAGCTCTCAGCACCAGCAGCCGTGCCTGCTCAATCTCCACGCGCGCACTG[TC]GCGATGTCCGCCAGCACTGTGCCCTGCTCCACCAGGGGCTTCCCAAAAGCCAAGCGGGAC ctg22fin3 22 MGC5601
5531 I A TCAACTCCTCTTTCAATGCTGCCTTCTTTAGGCTGAGA
5531 P C A ATGACGTGGCAGACCTAGTCGCTCTGGGCY
5531 P T A CGCGCCGAGGTTAGTCGCTCTGGGCY
5531 T C A TTATGCCCAGAGCGACTAGCTCAGCCTAAAGAAGCAGCATTGAAAGAGGAGTTGATG
5531 T T A TTATGCCCAGAGCGACTAACTCAGCCTAAAGAAGCAGCATTGAAAGAGGAGTTGATG
5531 IS [CT] TTTGCCAAAGATTTCTTCACACATCAACTCCTCTTTCAATGCTGCCTTCTTTAGGCTGAG[CT]TAGTCGCTCTGGGCATAACTCTGGGAATAATTCTGTAAAGGAGTTTCTGGCCCTATGCTA ctg22fin4 22
5622 I A GGAGGCAGGGTTCCCACTCCTATCAGTCTAAC
5622 P G A ATGACGTGGCAGACGGCTGGCCTTCTGAY
5622 P T A CGCGCCGAGGTGCTGGCCTTCTGATY
5622 T G A CGGAATCAGAAGGCCAGCCTTAGACTGATAGCAGTGGGAAACCCTGCCTCCCC
5622 T T A CGGAATCAGAAGGCCAGCATTAGACTGATAGGAGTGGGAAACCCTGCCTCCCC
5622 IS [GT] CAAGTGCAGCCCAAGAGTGAGGGCTGGGGGGAGGCAGGGTTCCCACTCCTATCAGTCTAA[GT]GCTGGGCTTCTGATTCCGGTTCCTATCTGCAAACTCACCTCCACCCTGAAGGACCGGTG ctg13980 1
5699 I A AAGGCCTCTGGAGCTCCCCAGCTT
5699 P G A ATGAGGTGGCAGACGTCATGGAAGCCCCAY
5699 P C A CGGCCCGAGGCTCATGGAAGCCCCAY
5699 T G A CCCCTGGGGCCTTCCATGACAGCTGGGGAGCTCCAGAGGCCTTGC
5699 T C A CCCCTGGGGCCTTCCATGAGAGCTGGGGAGCTCCAGAGGCCTTGC
5699 IS [GC] GCACTGGGGCCTCCCTTCTCTGCCCTCCCTCCTCAGGCAAGGCCTCTGGAGCTCCCAGCT[GC]TCATGGAAGCCCCAGGGGCCCAGGACTGACCCAGCCTCTTCCACAGCCAGAGTCCTGGTG ctg15665 20
5708 I A CTGGTTCCTCCGCTCCATTCTCTGGCTCT
5708 P A A CGCGCCGAGGAGGAATTTGCTCCCCAY

FIGURE 129F



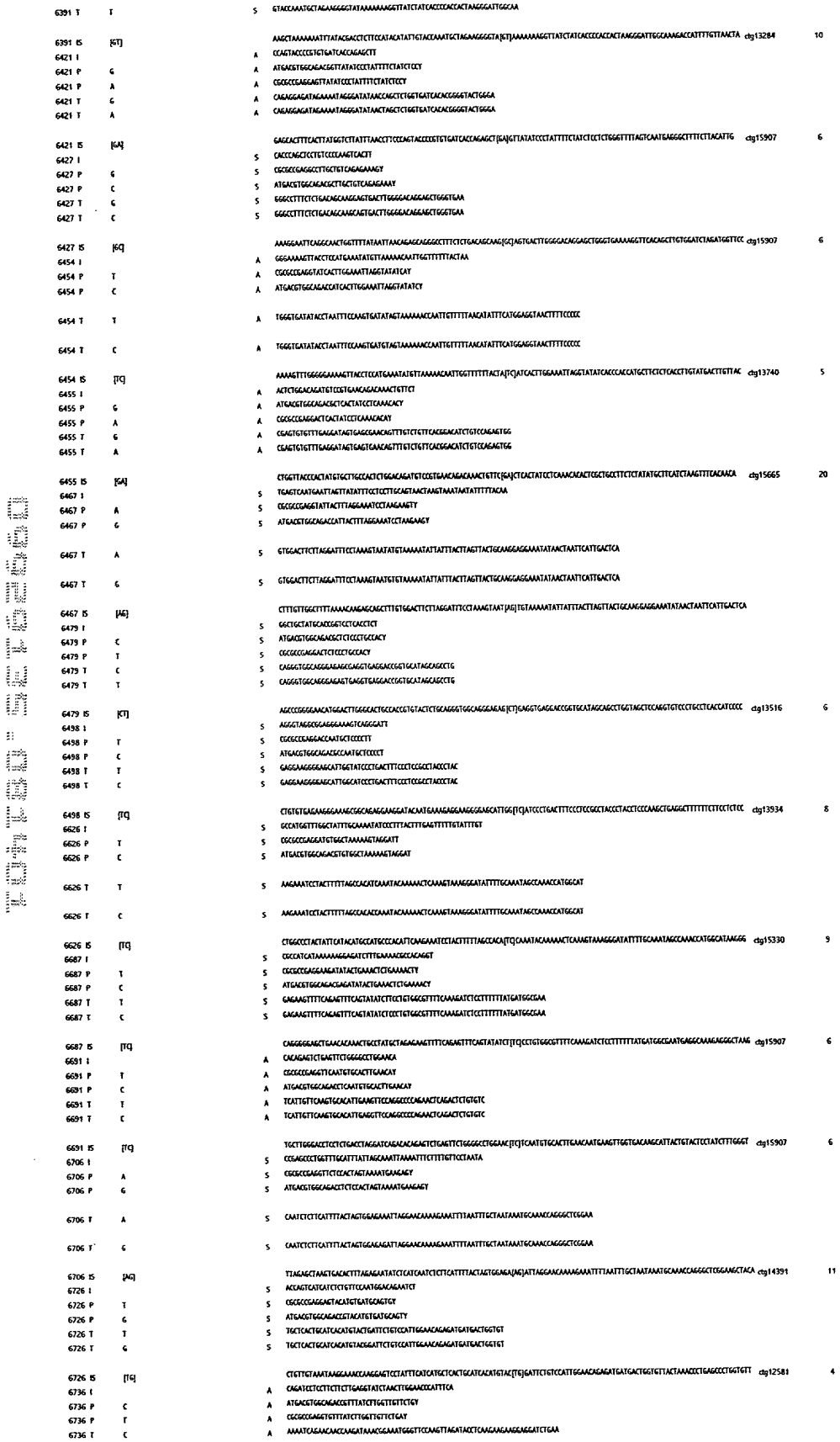
Lucent Technologies Bell Labs Innovations

FIGURE 129F



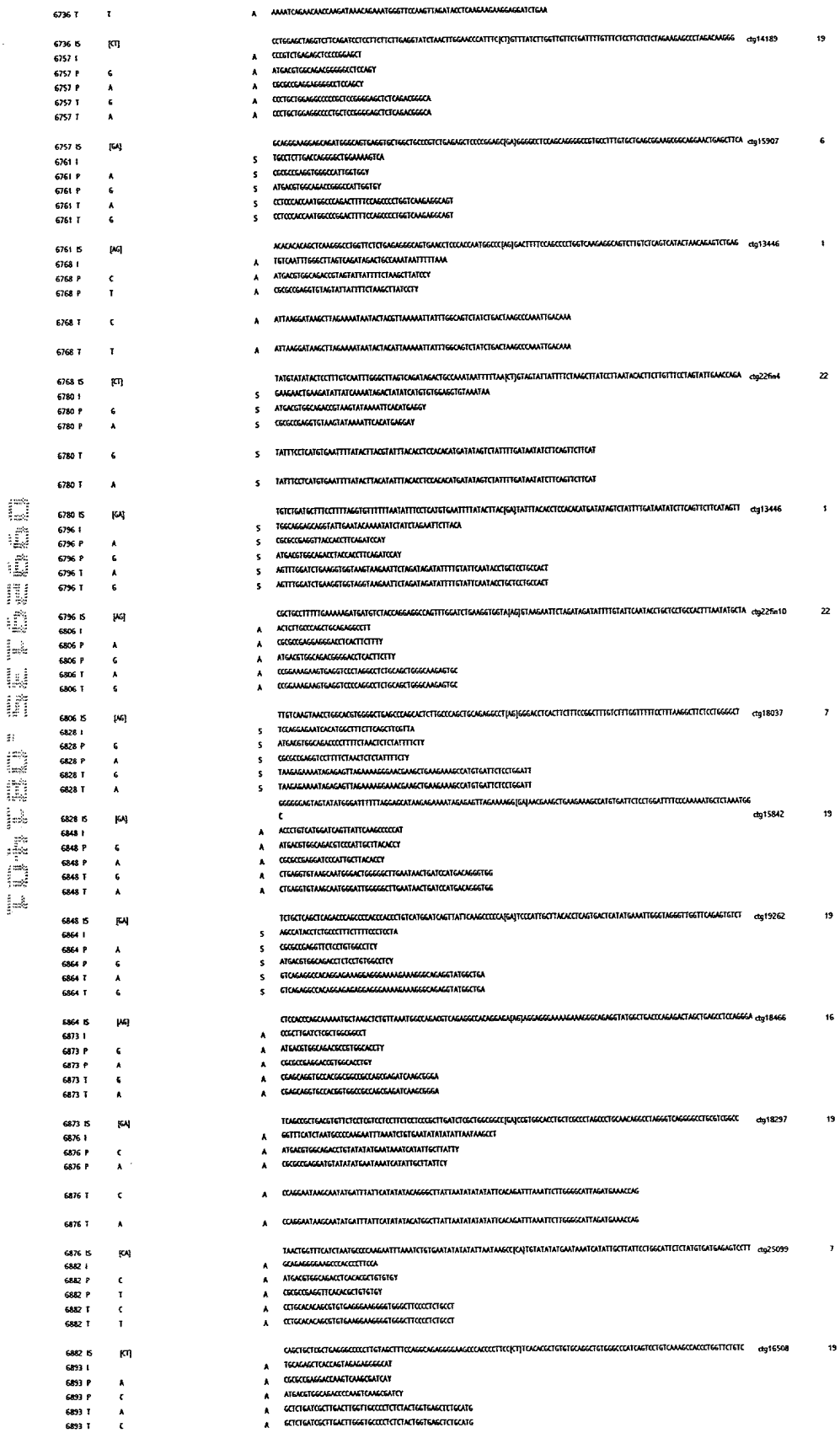
Applied Biosystems

FIGURE 129F


6391 T T S GTACCAAATGCTACAAGGGGTATAAAAAAAGGTTATCTATCACCCCACCACTAAGGGATTGGCAA
6391 IS [GT] AAGCTAAAAAAATTTATACGACCTCTTCCATACATATTGTACCAAATGCTAGAAGGGGTA[GT]AAAAAAAGGTTATCTATCACCCCACCACTAAGGGATTGGCAAAGACCATTTTGTTAACTA ctg13284 10
6421 I A CCAGTACCCCGTGTGATCACCAGAGCTT
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6421 P A A CGCGCCGAGGAGTTATATCCCTATTTTCTATCTCCT
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6421 T A A CAGAGGAGATAGAAAATAGGGATATAACTAGCTCTGGTGATCACACGGGGTACTGGGA
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6427 I S CACCCAGCTCCTGTCCCCAAGTCACTT
6427 P G S CGCGCCGAGGCCTTGCTGTCAGAGAAAGY
6427 P C S ATGACGTGGCAGACGCTTGCTGTCAGAGAAAY
6427 T G S GGGCCTTTCTCTGACAGCAAGCAGTGACTTGGGGACAGGAGCTGGGTGAA
6427 T C S GGGCCTTTCTCTGACAGCAAGCAGTGACTTGGGGACAGGAGCTGGGTGAA
6427 IS [GC] AAAGGAATTCAGGCAACTGGTTTTATAATTAACAGAGCAGGGCCTTTCTCTGACAGCAAG[GC]AGTGACTTGGGGACAGGAGCTGGGTGAAAAGGTTCACAGCTTGTGGATCTAGATGGTTCC ctg15907 6
6454 I A GGGAAAAGTTACCTCCATGAAATATGTTAAAAACAATTGGTTTTTTACTAA
6454 P T A CGCGCCGAGGTATCACTTGGAAATTAGGTATATCAT
6454 P C A ATGACGTGGCAGACCATCACTTGGAAATTAGGTATATCT
6454 T T A TGGGTGATATACCTAATTTCCAAGTGATATAGTAAAAAACCAATTGTTTTTAACATATTTCATGGAGGTAACTTTTCCCCC
6454 T C A TGGGTGATATACCTAATTTCCAAGTGATGTAGTAAAAAACCAATTGTTTTTAACATATTTCATGGAGGTAACTTTTCCCCC
6454 IS [TC] AAAAGTTTGGGGGAAAAGTTACCTCCATGAAATATGTTAAAAACAATTGGTTTTTTACTA[TC]ATCACTTGGAAATTAGGTATATCACCCACCATGCTTCTCTCACCTTGTATGACTTGTTAC ctg13740 5
6455 I A ACTCTGCACAGATGTCCGTGAACAGACAAACTGTTCT
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6455 P A A CGCGCCCAGGACTCACTATCCTCAAACACAY
6455 T G A CGAGTGTGTTTGAAGGATAGTGAGTGAACAGTTTGTCTGTTCACGGACATCTGTCCAGAGTGG
6455 T A A CGAGTGTGTTTGAAGGATAGTGAGTGAACAGTTTGTCTGTTCACGGACATCTGTCCAGAGTGG
6455 IS [GA] CTGGTTACCCACTATGTGCTTGCCACTCTGGACAGATGTCCGTGAACAGACAAACTGTTC[GA]CTCACTATCCTCAAACACACTCGCTGCCTTCTCTATATGCTTCATCTAAGTTTCACAACA ctg15665 20
6467 I S TGAGTCAATGAATTAGTTATATTTCCTCCTTGCAGTAACTAAGTAAATAATATTTTACAA
6467 P A S CGCGCCGAGGTATTACTTTAGGAAATCCTAAGAAGTY
6467 P G S ATGACGTGGCAGACCATTACTTTAGGAAATCCTAAGAAGY
6467 T A S GTGGACTTCTTAGGATTTCCTAAAGTAATATGTAAAAATATTATTTACTTAGTTACTGCAAGGAGGAAATATAACTAATTCATTGACTCA
6467 T G S GTGGACTTCTTAGGATTTCCTAAAGTAATGTGTAAAAATATTATTTACTTAGTTACTGCAAGGAGGAAATATAACTAATTCATTGACTCA
6467 IS [AG] CTTTGTTGGCTTTAAAACAAGAGCAGCTTTGTGGACTTCTTAGGATTTCCTAAAGTAAT[AG]TGTAAAAATATTATTTACTTAGTTACTGCAAGGAGGAAATATAACTAATTCATTGACTCA
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6479 P C S ATGACGTGGCAGACGCTCCCTGCCACY
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6479 T C S CAGGGTGGCAGGGAGAGCGAGGTGAGGACCGGTGCATAGCAGCCTG
6479 T T S CAGGGTGGCAGGGAGAGTGAGGTGAGGACCGGTGCATAGCAGCCTG
6479 IS [CT] AGCCCGGGGAACATGGACTTGGGCACTGCCACCGTGTACTCTGCAGGGGTGGCAGGGAGAAG[CT]GAGGTGAGCACCGGTGCATAGCAGCCTGGTAGCTCCAGGTGTCCCTGCCTCACCATCCCC ctg13516 6
6498 I S AGGGTAGGCGCAGGGAAAGTCAGGGATT
6498 P T S CGCGCCGAGGAACCAATGCTCCCCTT
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6498 T T S GAGGAAGGGGAGCATTGGTATCCCTCACTTTCCCTCCGCCTACCCTAC
6498 T C S GAGGAAGGGGAGCATTGGCATCCCTCACTTTCCCTCCGCCTACCCTAC
6498 IS [TC] CTGTGTGAGAAGGGAAAGCGGCAGAGGAAGGATACAATGAAAGAGGAAGGGGAGCATTGG[TC]ATCCCTGACTTTCCCTCCGCCTACCCTACCTACCTCCCAAGCTGAGGCTTTTTTCTTCCTCTCC ctg13934 8
6626 I S GCCATGGTTTGGCTATTTGCAAAATATCCCTTTACTTTGAGTTTTTGTATTTGT
6626 P T S CGCGCCGAGGATGTGGCTAAAAAGTAGGATT
6626 P C S ATGACGTGGCAGACGTGTGGCTAAAAAGTAGGAT
6626 T T S AAGAAATCCTACTTTTTAGCCACATCAAATACAAAAACTCAAAGTAAAGGGATATTTTGCAAATAGCCAAACCATGGCAT
6626 T C S AAGAAATCCTACTTTTTAGCCACACCAAATACAAAAACTCAAAGTAAAGGGATATTTTGCAAATAGCCAAACCATGGCAT
6626 IS [TC] CTGGCCCTACTATTCATACATGCCATGCCACATTCAAGAAATCCTACTTTTAGCCACA[TC]CAAATACAAAAACTCAAAGTAAAGGGATATTTTGCAAATAGCCAAACCATGGCATAAGGG ctg15330 9
6687 I S CGCCATCATAAAAAAGAGATCTTTGAAAACGCCACAGGT
6687 P T S CGCGCCGAGGAAGATATACTGAAACTCTGAAAACTY
6687 P C S ATGACGTGGCAGACAGATATACTGAAACTCTGAAAACY
6687 T T S GAGAAGTTTTCAGAGTTTCAGTATATCTCCCTGTGGCGTTTTCAAAGATCTCCTTTTTTATGATGGCGAA
6687 T C S GAGAAGTTTTCAGAGTTTCAGTATATCTCCCTGTGGCGTTTTCAAAGATCTCCTTTTTTATGATGGCGAA
6687 IS [TC] CAGGGGGAGCTGAACACAAACTGCCTATGCTAGAGAAGTTTCAGAGTTTCAGTATATCT[TC]CCTGTGGCGTTTTCAAAGATCTCCTTTTTTATGATGGCGAATGAGGCAAAGAGGGCTAAG ctg15907 6
6691 I A CAGAGAGTCTGAGTTCTGGGGCCTGGAACA
6691 P T A CGCGCCGAGGTTCAATGTGCACTTGAACAY
6691 P C A ATGACGTGGCAGACCTCAATGTGCACTTGAACAY
6691 T T A TCATTGTTCAAGTGCACATTGAAGTTCCAGGCCCCAGAACTCAGACTCTGTGTC
6691 T C A TCATTGTTCAAGTGCACATTGAGGTTCCAGGCCCCAGAACTCAGACTCTGTGTC
6691 IS [TC] TGCTTGGGACCTCCTCTGACCTAGGATCAGACACAGAGTCTGAGTTCTGGGGCCTGGAAC[TC]TCAATGTGCACTTGAACAATGAAGTTGGTGACAAGCATTACTGTACTCCTATCTTTGGGT ctg15907 6
6706 I S CCSAGCCCTGGTTTGCATTTATTAGCAAATTAAAATTTCTTTTGTTCCTAATA
6706 P A S CGCGCCGAGGTTCTCCACTAGTAAAATGAAGAGY
6706 P G S ATGACGTGGCAGACCTCTCCACTAGTAAAATGAAGAGY
6706 T A S CAATCTCTTCATTTTACTAGTGGAGAAATTAGGAACAAAAGAAATTTAATTTGCTAATAAATGCAAACCAGGGCTCGGAA
6706 T G S CAATCTCTTCATTTTACTAGTGGAGAGATTAGGAACAAAAGAAATTTTAATTTGCTAATAAATGCAAACCAGGGCTCGGAA
6706 IS [AG] TTAGAGCTAAGTGACACTTTAGAGAATATCTCATCAATCTCTCATTTTACTAGTGGAGA[AG]ATTAGGAACAAAAGAAATTTTAATTTGCTAATAAATGCAAACCAGGGCTCGGAAGCTACA ctg14391 11
6726 I S ACCAGTCATCATCTCTGTTCCAATGGACAGAATCT
6726 P T S CGCGCCGAGGAGTACATGTGATGCAGTGY
6726 P G S ATGACGTGGCAGACCGTACATGTGATGCAGTY
6726 T T S TGCTCACTGCATCACATGTACTGATTCTGTCCATTGGAACAGAGATGATGACTGGTGT
6726 T G S TGCTCACTGCATCACATGTACGGATTCTGTCCATTGGAACAGAGATGATGACTGGTGT
6726 IS [TG] CTGTTGTAAATAAGGAAACCAAGGAGTCCTATTTCATCATGCTCACTGCATCACATGTAC[TG]GATTCTGTCCATTGGAACAGAGATGATGACTGGTGTTACTAAACCCTGAGCCCTGGTGTT ctg12581 4
6736 I A CAGATCCTCCTTCTTCTTGAGGTATTCTAACTTGGAAGCCATTTCA
6736 P C A ATGACGTGGCAGACCGTTTATCTTGGTTGTTCTGY
6736 P T A CGCGCCGAGGTGTTTATCTTGGTTGTTCTGAY
6736 T C A AAAATCAGAACAACCAAGATAAACGGAAATGGGTTCCAAGTTAGATACCTCAAGAAGAAGGAGGATCTGAA

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FIGURE 129F



SUBSTITUTE SHEET (RULE 26)

FIGURE 129F

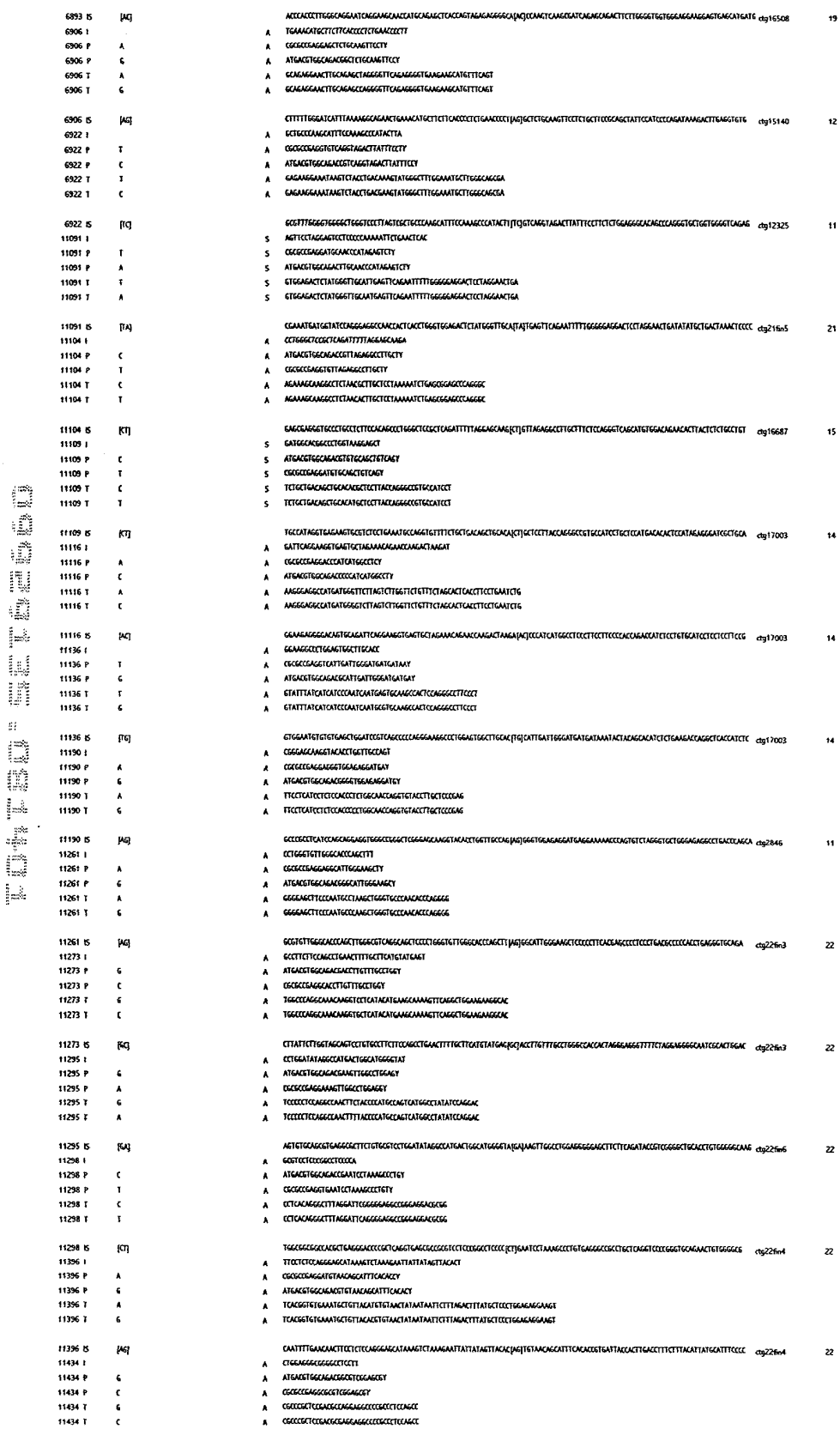

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6906 I A
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6906 P G A
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6922 P T A
6922 P C A
6922 T T A
6922 T C A
6922 IS [TC] ctg12325 11
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11091 P T S
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11116 T C A
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11190 I A
11190 P A A
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11190 T A A
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11190 IS [AG] ctg2846 11
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11261 T G A
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11295 T A A
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11298 P T A
11298 T C A
11298 T T A
11298 IS [CT] ctg22fin4 22
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11396 P A A
11396 P G A
11396 T A A
11396 T G A
11396 IS [AG] ctg22fin4 22
11434 I A
11434 P G A
11434 P C A
11434 T G A
11434 T C A

FIGURE 129F

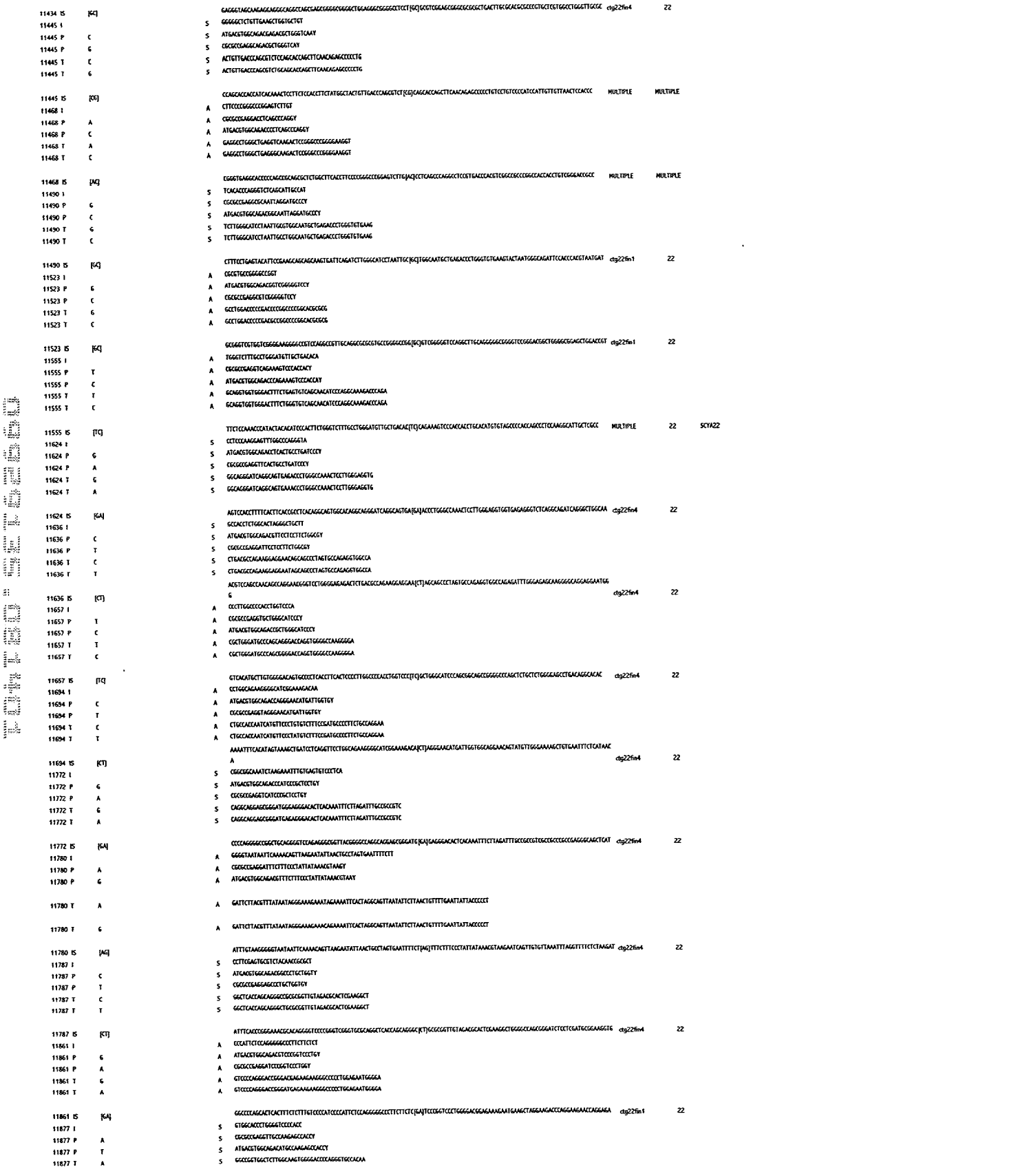

11434 IS [GC] GAGGGTAGCAAGAGCAGGGCAGGCCAGCCAGCGGGGGCGGGGCTGGAGGGCGGGGCCTCCT[GC]GCGTCGGAGCGGGCGCGCGCTGACTTGCGCACGCGCCCCGTGCTCGTGGCCTGGGTTGCGC ctg22fin4 22
11445 I G
11445 P C S ATGACGTGGCAGACGAGACGCTGGGTCAAY
11445 P G S CGCGCCCAGGCAGACGCTGGGTCAY
11445 T C S ACTGTTGACCCAGGGTCTCGAGCACCAGCTTCAACAGAGCCCCCTG
11445 T G S ACTGTTGACCCAGGGTCTCGCAGCACCAGCTTCAACAGAGCCCCCTG
11445 IS [CG] CCAGCACCACCATCACAAACTCCTTCTCCACCTTCTATGGCTACTGTTGACCCAGCGTCT[CG]CAGCACCAGCTTCAACAGAGCCCCCTGTCCTGTCCCCATCCATTGTTGTTAACTCCACCC MULTIPLE MULTIPLE
11468 I A CTTCCCCGGGCCCCGGAGTCTTGT
11468 P A A CGCGCCCAGGACCTCAGCCCAGGY
11468 P C A ATGACGTGGCAGACCCCTCAGCCCAGGY
11468 T A A GAGGCCTGGGCTGAGGTCAAGACTCCGGGCCCCGGGGAAGGT
11468 T C A GAGGCCTGGGCTGAGGGCAAGACTCCGGGCCCGGGGAAGGT
11468 IS [AC] CGGGTGAGGCACCCCAGCCGCAGCGCTCTGGCTTCACCTTCCCCGGGCCCGGAGTCTTG[AC]CCTCAGCCCAGGCCTCCGTGACCCACGTCGGCCGCCCGCCACCACCTGTCGGGACCGCC MULTIPLE MULTIPLE
11490 I S TCACACCAGGGTCTCAGCATTGCCAT
11490 P G S CGCGCCCAGGCGCAATTAGGATGCCCY
11490 P C S ATGACGTGGCAGACGGCAATTAGGATGCCCY
11490 T G S TCTTGGGCATCCTAATTGCGTGGCAATGCTGAGACCCTGGGTGTGAAG
11490 T C S TCTTGGGCATCCTAATTGCCTGGCAATGCTGAGACCCTGGGTGTGAAG
11490 IS [GC] CTTTCCTGAGTACATTCCGAAGCAGCAGGCAAGTGATTCAGATCTTGGGCATCCTAATTGC[GC]TGGCAATGCTGAGACCCTGGGTGTGAAGTACTAATGGGCAGATTCCACCCACGTAATGAT ctg22fin1 22
11523 I A CGCGTGCCGGGGCCGGT
11523 P G A ATGACGTGGCAGACGGTCGGGGGTCCY
11523 P C A CGCGCCGAGGCGTCGGGGGTCCY
11523 T G A GCCTGGACCCCCGACCCCGGCCCCGGCAGCGCGG
11523 T C A GCCTGGACCCCCGACGCCGGGCCCCGGCACGCGCG
11523 IS [GC] GCGGGTCGTGGTCGGGGAAGGGGCCGTCCAGGCCGTTGCAGGCGCGCGTGCCGGGCCCG[GC]GTCGGGGGTCCAGGCTTGCAGGGGGGCGGGGTCCGGGACGGCTGGGGCGGAGCTGGACCGT ctg22fin1 22
11555 I A TGGGTCTTTGCCTGGGATGTTGCTGACACA
11555 P T A CGCGCCGAGGTCAGAAAGTCCCACCACY
11555 P C A ATGACGTGGCAGACCAGAAAGTCCCACCAY
11555 T T A GCAGGTGGTGGGACTTTCTGAGTGTCAGCAACATCCCAGGCAAAGACCCAGA
11555 T C A GCAGGTGGTGGGACTTTCTGGGTGTCAGCAACATCCCAGGCAAAGACCCAGA
11555 IS [TC] TTCTCCAAACCCATACTACACATCCCACTTCTGGGGTCTTTGCCTGGGATGTTGCTGACAC[TC]CAGAAAGTCCCACCACCTGCACATGTGTAGCCCCACCAGCCCTCCAAGGCATTGCTCGCC MULTIPLE 22 SCYA22
11624 I S CCTCCCAAGGAGTTTGGCCCAGGGTA
11624 P G S ATGACGTGGCAGACCTCACTGCCTGATCCCY
11624 P A S CGCGCCGAGGTTCACTGCCTGATCCCY
11624 T G S GGCAGGGATCAGGCAGTGAGACCCTGGGCCAAACTCCTTGGGAGGTG
11624 T A S GGCAGGGATCAGGCAGTGAAACCCTGGGCCAAACTCCTTGGGAGGTG
11624 IS [GA] AGTCCACCTTTTCACTTCACCGCCTCACAGGCAGTGGCACAGGCAGGATCAGGCAGTGA[GA]ACCCTGGGCCAAACTCCTTGGGAGGTGGTGAGAGGGTCTCAGGCAGATCAGGCCTGGCAA ctg22fin4 22
11636 I S GCCACCTCTGGCACTAGGGCTGCTT
11636 P C S ATGACGTGGCAGACGTTCCTCCTTCTGGCGY
11636 P T S CGCGCCCAGGATTCCTCCTTCTGGCGY
11636 T C S CTGACGCCAGAAGGAGGAACAGCAGCCCTAGTGCCAGAGGTGGCCA
11636 T T S CTGACGCCAGAAGGAGGAATAGCAGCCCTAGTGCCAGAGGTGGCCA
11636 IS [CT] ACGTCCAGCCAACAGCCAGGAAGGGTCCTGGGGAGAGACTCTGACGCCAGAAGGAGGAA[CT]AGCAGCCCTAGTGCCAGAGGTGGCCAGAGATTTGGGAGAGCAAGGGGCAGGAGGAGAATGG G ctg22fin4 22
11657 I A CCCTTGGCCCCACCTGGTCCCA
11657 P T A CGCGCCGAGGTGCTGGGCATCCCY
11657 P C A ATGACGTGGCAGACCGCTGGGCATCCCY
11657 T T A CGCTGGGATGCCCAGCAGGGACCAGGTGGGGCCAAGGGGA
11657 T C A CGCTGGGATGCCCAGCGGGGACCAGGTGGGGCCAAGGGGA
11657 IS [TC] GTCACATGCTTGTGGGGACAGTGCCCCTCACCTTCACTCCCCTTGGCCCCACCTGGTCCCC[TC]GCTGGGCATCCCAGCGGCAGCCGGGCCCAGCTCTGCTCTGGGGAGCCTGACAGGCACAC ctg22fin4 22
11694 I A CCTGGCAGAAGGGGCATCGGAAAGACAA
11694 P C A ATGACGTGGCAGACCAGGGAACATGATTGGTGY
11694 P T A CGCGCCGAGGTAGGGAACATGATTGGTGY
11694 T C A CTGCCACCAATCATGTTCCCTGTGTCTTCCGATGCCCCTTCTGCCAGGAA
11694 T T A CTGCCACCAATCATGTTCCCTATGTCTTCCGATGCCCCTTCTGCCAGGAA
11694 IS [CT] AAAATTTCACATAGTAAAGCTGATCCTCAGGTTCCTGGCAGAGGGGCATCGGAAAGACA[CT]AGGGAACATGATTGGTGGCAGGAACAGTATGTTGGGAAAAGCTGTGAATTTCTCATAAC A ctg22fin4 22
11772 I S CGGCGGCAAATCTAAGAAATTTGTGAGTGTCCCTCA
11772 P G S ATGACGTGGCAGACCCATCCCGCTCCTGY
11772 P A S CGCGCCGAGGTCATCCCGCTCCTGY
11772 T G S CAGGCAGGAGCGGGATGGGAGGGACACTCACAAATTTCTTAGATTTGCCGCCGTC
11772 T A S CAGGCAGGAGCGGGATGAGAGGGACACTCACAAATTTCTTAGATTTGCCGCCGTC
11772 IS [GA] CCCCAGGGGCCGGCTGCAGGGGTCCAGAGGGCGGTTACGGGGCCAGGCAGGAGCGGGATG[GA]CAGGGACACTCACAAATTTCTTAGATTTGCCGCCGTCGCCGCCGCCGAGGGCAGCTCAT ctg22fin4 22
11780 I A GGGGTAATAATTCAAAACAGTTAAGAATATTAACTGCCTAGTGAATTTTCTT
11780 P A A CGCGCCGAGGATTTCTTTCCCTATTATAAAGTAAGY
11780 P G A ATGACGTGGCAGAGTTTCTTTCCCTATTATAAAGTAAGY
11780 T A A GATTCTTACGTTTATAATAGGGAAAGAAATAGAAAATTCACTAGGCAGTTAATATTCTTAACTGTTTTGAATTATTACCCCCT
11780 T G A GATTCTTACGTTTATAATAGGGAAAGAAACAGAAAATTCACTAGGCAGTTAATATTCTTAACTGTTTTGAATTATTACCCCCT
11780 IS [AG] ATTTGTAAGGGGGTAATAATTCAAAACAGTTAAGAATATTAACTGCCTAGTGAATTTTCT[AG]TTTCTTTCCCTATTATAAACGTAAGAATCAGTTGTGTTAAATTTAGGTTTTCTCTAAGAT ctg22fin4 22
11787 I S CCTTCGAGTGCGTCTACAACCGCGCT
11787 P C S ATGACGTGGCAGACGGCCCTGCTGGTY
11787 P T S CGCGCCGAGGAGCCCTGCTGGTGY
11787 T C S GGCTCACAGCAGGGCCGCGCGGTTGTAGACGCACTCGAAGGCT
11787 T T S GGCTCACAGCAGGGCTGCGCGGTTGTAGACGCACTCGAAGGCT
11787 IS [CT] ATTTCACCCGGGAAACGCACAGGGGTCCCCGGGTCGGGTGCGCAGGCTCACCAGCAGGGC[CT]GCGCGGTTGTAGACGCACTCGAAGCCTGGGCCCAGCCGGATCTCCTCGATGCGGAAGGTG ctg22fin4 22
11861 I A CCCATTCTCCAGGGGGCCCTTCTCTCT
11861 P G A ATGACGTGGCAGACGTCCCGGTCCCTGY
11861 P A A CGCGCCGAGGATCCCGGTCCCTGGY
11861 T G A GTCCCCAGGGACCGGCACGAGAAGAAGGCCCCCTGGAGAATGGGGA
11861 T A A GTCCCCAGGGACCGGGATGAGAAGAAGGCCCCCTGGAGAATGGGGA
11861 IS [GA] GGCCCCAGCACTCACTTTCTCTTTGTCCCCATCCCCATTCTCCAGGGGGCCCTTCTCTC[GA]TCCCGGTCCCTGGGGACGGAGAAAGAATGAAGCTAGGAAGACCCAGGAAGAACCAGGAGA ctg22fin1 22
11877 I S GTGGCACCCTGGGGTCCCCACC
11877 P A S CGCGCCGAGGTTGCCAAGAGCCACCY
11877 P T S ATGACGTGGCAGACATGCCAAGAGCCACCY
11877 T A S GGCCGGTGGCTCTTGGCAAGTGGGGACCCCAGGGTGCCACAA

FIGURE 129F

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11877 T   T    S  GGCCGGTGGCTCTTGGCATGTGGGGACCCCAGGGTGCCACAA

11877 IS  [AT]      AGTCCCAGCAGCGGTGGGGACAGACAACCCTTGCCGCATGGTGGCCGGTGGCTCTTGGCA[AT]GTGGGGACCCCAGGGTGCCACAAGCCTTGCCACCCTGGCCTCTCCCCTGTGCCTCGGGCT
11904 I         S  TGTTTGCTGTACTACAGAACCACATCAGTGTCTGCCC
11904 P   A     S  CGCGCCGAGGTGAACACTCAATTCTGTGAGY
11904 P   T     S  ATGACGTGGCAGACAGAACACTCAATTCTGTGAGY
11904 T   A     S  CAGTCTCACAGAATTGAGTGTTCAGGCAGACACTGATGTGGTTCTGTAGTACAGCAAACAAT
11904 T   T     S  CAGTCTCACAGAATTGAGTGTTCTGGCAGACACTGATGTGGTTCTGTAGTACAGCAAACAAT

11904 IS  [AT]      TGGACAACAGAGCTTTCTCATCACCTAATGCAGATTACAGTCTCACAGAATTGAGTGTTC[AT]GGCAGACACTGATGTGGTTCTGTAGTACAGCAAACAATATCAGTTTACAGTCCTGAGGCC  ctg22fm4  22
11974 I         A  CCCATATGTCTACTTATACATAAGCACACACATCCTCACAAAGCTT
11974 P   G     A  ATGACGTGGCAGACGGTGCATTGAGCTTTAACY
11974 P   A     A  CGCGCCGAGGAGTGCATTGAGCTTTTAACTY
11974 T   G     A  TTTCAGTTAAAAGCTCAATGCACCAGCTTTGTGAGGATGTGTGTGCTTATGTATAAGTAGACATATGGGTT
11974 T   A     A  TTTCAGTTAAAAGCTCAATGCACTAGCTTTGTGAGGATGTGTGTGCTTATGTATAAGTAGACATATGGGTT

11974 IS  [GA]      GGGTTATTTAGCCAACCCATATGTCTACTTATACATAAGCACACACATCCTCACAAAGCT[GA]GTGCATTGAGCTTTTAACTGAAAATGCACATCAACCTTTCTCCTAGGTTTTGAGTTGAGT  ctg22fm4  22
11983 I         S  GCCTGGACAGGTGGGGAAGGGATTCAA
11983 P   G     S  ATGACGTGGCAGACCGGTCTCACCTTCGCY
11983 P   A     S  CGCGCCGAGGTGGTCTCACCTTCGCY
11983 T   G     S  GGATGCGAAGGTGAGACCATGAATCCCTTCCCCACCTGTCCAGGCCT
11983 T   A     S  GGATGCGAAGGTGAGACCATGAATCCCTTCCCCACCTGTCCAGGCCT

11983 IS  [GA]      CACACACAGAGGCTTCGGCTTTGTGGACTTCCTCACCAAGCAGGATGCGAAGGTGAGACC[GA]TGAATCCCTTCCCCACCTGTCCAGGCCTCCCCTTTCCAGTACCCATTGTAGGAGAGACAG
12041 I         S  AGCCACGGTGGGTGTATGCACTCAAGTCT
12041 P   T     S  CGCGCCGAGGACTGCAGTTCAGAGTAAGGY
12041 P   C     S  ATGACGTGGCAGACGCTGCAGTTCAGAGTAAGY
12041 T   T     S  TGCTCCTTACTCTGAACTGCAGTGACTTGAGTGCATACACCCACCGTGGCTTC
12041 T   C     S  TGCTCCTTACTCTGAACTGCAGCGACTTGAGTGCATACACCCACCGTGGCTTC

12041 IS  [TC]      ACCAGCAAAGCCGTCGCCCTTGGCTGAACTGGAGGGTGCTCCTTACTCTGAACTGCAG[TC]GACTTGAGTGCATACACCCACCGTGGCTTCCTGGAGTCTGCTGATCTGTCCTGGCCCAGC  ctg13446  1
12072 I         A  AGTGACTGCTCAGAGGCCGGGCTTA
12072 P   C     A  ATGACGTGGCAGACCTTTTCAAGTACTGCTGGAY
12072 P   T     A  CGCGCCGAGGTTTTTCAAGTACTGCTGGATY
12072 T   C     A  TATGATCCAGCAGTACTTGAAAAAGAGCCGGGCCTCTGAGCAGTCACTCA
12072 T   T     A  TATGATCCAGCAGTACTTGAAAAAAGCCGGGCCTCTGAGCAGTCACTCA

12072 IS  [CT]      GAAGTCTGCAGACTTCCAGCGGCTTTACCAGGAATGAGTGACTGCTCAGAGCCCGGGCTT[CT]TTTTCAAGTACTGCTGGATCATACTCACCCCTTGGGATTATGGCTTAGAAGAAGGGGGCT  ctg16829  1
12123 I         S  GGTGTCTGAGGCCCTTGCCCCCTCT
12123 P   C     S  ATGACGTGGCAGACGCTTATCTTCTCCCCAGATACY
12123 P   T     S  CGCGCCGAGGACTTATCTTCTCCCCAGATACAY
12123 T   C     S  CTTATGTATCTGGGAGAAGATAAGCGAGGGGCAAGGGCCTCAGACACCCA
12123 T   T     S  CTTATGTATCTGGGAGAAGATAAGTGAGGGGCAAGGGCCTCAGACACCCA

12123 IS  [CT]      GTCTTTCTTCTAGCACAGTAATTGGCAATAAGTGGTCTTATGTATCTGGGAGAAGATAAG[CT]GAGGGGCAAGGGCCTCAGACACCCATGGGCATCACTCCCCACACCCAGCTGGATGCCCA  ctg15972  16
12129 I         A  AGGGCGAATCGGGCAGGCCACTA
12129 P   T     A  CGCGCCGAGTTGTGTCATTGCGGGY
12129 P   C     A  ATGACGTGGCAGACCTGTGTCATTGCGGGY
12129 T   T     A  TAGACGCGCAATGACACAAAGTGGCCTCCCGATTCCGCCCTTC
12129 T   C     A  TAGACGCGCAATGACACAGAGTGGCCTCCCGATTCCGCCCTTC

12129 IS  [TC]      TGTGCATGAAGTCATGAGCTGAGGTGGGTGCTGGAAGAAGGGCGGAATCGGGAGGCCACT[TC]TGTGTCATTGCGCGTCTAGATGTTTCCGAATTGCGTGTGTGTGTGACTGTGCAATATG
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12145 P   C     S  ATGACGTGGCAGACGTTCTGACTCTTCCTGACAY
12145 P   A     S  CGCGCCGAGGTTTCTGACTCTTCCTGACAY
12145 T   C     S  GGTCTGTCAGGAACAGTCAGAACATTCAGGCATTTGCATCTGTCATGGGACACTCCTC
12145 T   A     S  GGTCTGTCAGGAAGAGTCAGAAAATTCAGGCATTTTGCATCTGTCATGGGACACTCCTC

12145 IS  [CA]      GTCAGAGATGGGGTGGTGGGTCATATGTGTCTGGGGGGGTCTGTCAGGAAGAGTCAGAA[CA]ATTCAGGCATTTTGCATCTGTCATGGGACACTCCTCCAGCACACATGTGGCTATCTTGAG
12590 I         A  CCATTCTTGGGTGAAAAGTATAGGGTAGGCTGGCTCC
12590 P   T     A  CGCGCCGAGGTGGAACAGGCTTCTTGTY
12590 P   G     A  ATGACGTGGCAGACGGGAACAGGCTTCTTGY
12590 T   T     A  GTGGACAAGAAGCCTGTTCCAGACCAGCCTACCCTATACTTTTCACCCAAGAATGGCT
12590 T   G     A  GTGGACAAGAAGCCTGTTCCCGAGCCAGCCTACCCTATACTTTTCACCCAAGAATGGCT

12590 IS  [TG]      AAAGTCACTGTTGATGGCCTCCAGCCATTCTTGGGTGAAAAGTATAGGGTAGGCTGGCTC[TG]GGAACAGCCTTCTTGTCCACTGTGCAGAGGTCCAGGGAGAGGCATTTGATCATGATGCAG  ctg17253  1
12597 I         S  GGAACTGAGCCTTGGCTCTGGGCCT
12597 P   C     S  ATGACGTGGCAGACGCATGGCCCCTCTY
12597 P   T     S  CGCGCCGAGGACATGGCCCCTCTCY
12597 T   C     S  CTGAGAGAGGGGCCATGCGGCCCAGAGCCAAGGCTCAGTTCCAC
12597 T   T     S  CTGAGAGAGGGGCCATGTGGCCCAGAGCCAAGGCTCAGTTCCAC

12597 IS  [CT]      AAAGCCACAGGCATACAGCATGTCCTCAACTAAAGAGTCCTCCTGAGAGAGGGGCCATG[CT]GGCCCAGAGCCAAGGCTCAGTTCCACTGCTCTGCAATGATGTGACTCGGGACAAGCCCAT  ctg17326  12
12893 I         S  CAGAGGCCGGTGAGCAGGCCCT
12893 P   C     S  ATGACGTGGCAGACGTTATGCTGGATTCCCAAY
12893 P   T     S  CGCGCCGAGGATTATGCTGGATTCCCAAGY
12893 T   C     S  TCCGCTTGGGAATCCAGCATAACGGGCCTGCTCACCGGCCTCTGCT
12893 T   T     S  TCCGCTTGGGAATCCAGCATAATGGGCCTGCTCACCGGCCTCTGCT

12893 IS  [CT]      CGTGTGGGTGGGGCAGAGGTTGCAGGGGAGTCGGCGGCTCCGCTTGGGAATCCAGCATAA[CT]GGGCCTGCTCACCGGCCTCTGCTCTGCCCCTCAGTTCCTTGGTTTGAACAACATCACTC  ctg16306  4
12922 I         A  TCACCACTAACAAAGAACAGGGGAGCCTT
12922 P   A     A  CGCGCCGAGGAAGGCACAGGGGAGY
12922 P   G     A  ATGACGTGGCAGACAGGCACAGGGGAGY
12922 T   A     A  CCGACTCCCCTGTGCCTTAGGCTCCCCTGTTCCTTGGTTAGTGGTGAGG
12922 T   G     A  CCGACTCCCCTGTGCCTCAGGCTCCCCTGTTCCTTGGTTAGTGGTGAGG

12922 IS  [AG]      GTTAAAAAAGAGAGGGGGAGATGTTTCCACCTCACCACTAACCAAAGGAACAGGGGAGCCT[AG]AGGCACAGGGGAGTCGGCACAGGGCGCGCCAACATTGCTGAGGCCAAGCCGCTGTGCAGC  ctg17042  11
12937 I         S  GCCCAGAAGAGCCAAATTGAACTTCCCTCT
12937 P   T     S  CGCGCCGAGGATCTTCACTCACAACTCTCY
12937 P   G     S  ATGACGTGGCAGACCTCTTCACTCACAACTCTCY
12937 T   T     S  GGAGGAGAGTTGTGAGTGAAGATGAGGGAAAGTTGAATTTGGCTCTTCTGGGCAC
12937 T   G     S  GGAGGAGAGTTGTGAGTGAAGAGGAGGGAAAGTTGAATTTGGCTCTTCTGGGCAC

12937 IS  [TG]      GGGCCACAGGCCCCAGTTGCCAGGAGCTGAGCTCTGCGGGAGGAGAGTTGTGAGTGAAGA[TG]GAGGGAAAGTTGAATTTGGCTCTCTGGGCACAAATAATTCTCTTGTTCTGCCTCAGCAG  ctg14153  X
13058 I         S  CAAAGTAGCAATGAGAAGGCTTATGGAGTAAAAATGAAGTCAGTTGGTATTTAAC
13058 P   A     S  CGCGCCGAGGTCCCAAAGTGTTGTTCTGY
13058 P   C     S  ATGACGTGGCAGACGCCCAAAGTGTTGTTCTGY

13058 T   A     S  TAATCAGAACAACACTTTGGGATTAAATACCAACTGACTTCATTTTTACTCCATAAGCCTTCTCATTGCTACTTTGCA
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FIGURE 129F

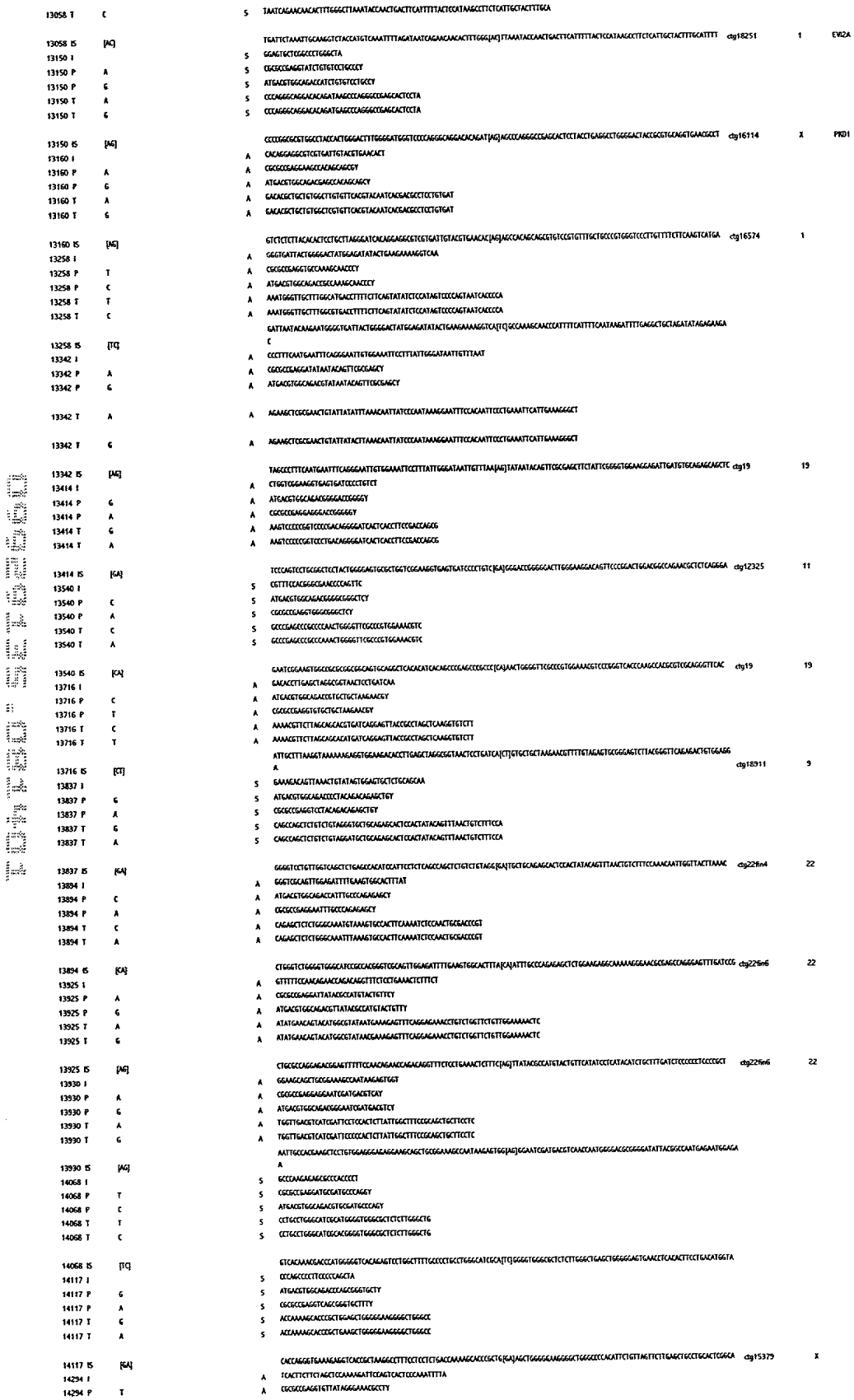

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13058 IS [AC] TGATTCTAAATTGCAAGGTCTACCATGTCAAATTTTAGATAATCAGAACAACACTTTGGG[AC]TTAAATACCAACTGACTTCATTTTTACTCCATAAGCCTTCTCATTGCTACTTTGCATTTT ctg18251 1 EVI2A
13150 I S GGAGTGCTGGCCCCTGGGCTA
13150 P A S CGCGCCCAGGTATCTGTGTCCTGCCCT
13150 P G S ATGACGTGGCAGACCATCTGTGTCCTGCCT
13150 T A S CCCAGGGCAGGACACAGATAAGCCCAGGGCCGAGCACTCCTA
13150 T G S CCCAGGGCAGGACACAGATGAGCCCAGGGCCGAGCACTCCTA
13150 IS [AG] CCCCGGCGCGCTGGCCTACCACTGGGACTTTGGGGGATGGGTCCCCAGGGCAGGACACAGAT[AG]AGCCCAGGGCCGAGCACTCCTACCTGAGGCCTGGGGACTACCGCGTGCAGGTGAACGCCT ctg16114 X PKD1
13160 I A CACAGGAGGCGTCGTGATTGTACGTGAACACT
13160 P A A CGCGCCGAGGAAGCCACAGCAGCGY
13160 P G A ATGACGTGGCAGACGAGCCACAGCAGCY
13160 T A A GACACGCTGCTGTGGCTTGTGTTCACGTACAATCACGACGCCTCCTGTGAT
13160 T G A GACACGCTGCTGTGGCTCGTGTTCACGTACAATCACGACGCCTCCTGTGAT
13160 IS [AG] GTCTCTCTTACACACTCCTGCTTAGGGATCACAGGAGGCGTCGTGATTGTACGTGAACAC[AG]AGCCACAGCAGCGTGTCCGTGTTTGCTGCCCGTGGGTCCCTTGTTTTCTTCAAGTCATGA ctg16574 1
13258 I A CGGGTGATTACTGGGGACTATGGAGATATACTGAAGAAAAGGTCAA
13258 P T A CGCGCCGAGGTGCCAAGCAACCCY
13258 P C A ATGACGTGGCAGACCGCCAAGCAACCCY
13258 T T A AAATGGGTTGCTTTGGCATGACCTTTTCTTCAGTATATCTCCATAGTCCCCAGTAATCACCCCA
13258 T C A AAATGGGTTGCTTTGGCGTGACCTTTTCTTCAGTATATCTCCATAGTCCCCAGTAATCACCCCA
13258 IS [TC] GATTAATACAAGAATGGGGTGATTACTGGGGACTATGGAGATATACTGAAGAAAAGGTCA[TC]GCCAAAGCAACCCATTTTCATTTTCAATAAGATTTTGAGGCTGCTAGATATAGAGAAGA C
13342 I A CCCTTTCAATGAATTTCAGGGAATTGTGGAAATTCCTTTATTGGGATAATTGTTTAAT
13342 P A A CGCGCCGAGGATATAATACAGTTCGCGAGCY
13342 P G A ATGACGTGGCAGACGTATAATACAGTTCGCGAGCY
13342 T A A AGAAGCTCGCGAACTGTATTATATTTAAACAATTATCCCAATAAAGGAATTTCCACAATTCCCTGAAATTCATTGAAAGGGCT
13342 T G A AGAAGCTCGCGAACTGTATTATACTTAAACAATTATCCCAATAAAGGAATTTCCACAATTCCCTGAAATTCATTGAAAGGGCT
13342 IS [AG] TAGCCCTTTCAATGAATTTCAGGGAATTGTGGAAATTCCTTTATTGGGATAATTGTTTAA[AG]TATAATACAGTTCGCGAGCTTCTATTCGGGGTGGAAGGAGATTGATGTGCAGAGCAGCTC ctg19 19
13414 I A CTGGTCGGAAGGTGAGTGATCCCCTGTCT
13414 P G A ATCACGTGGCAGACAGGGGACCGGGGY
13414 P A A CGCGCCGAGGAGGGACCGGGGGY
13414 T G A AAGTCCCCCGGTCCCCCACAGGGGATCACTCACCTTCCGACCAGCG
13414 T A A AAGTCCCCCGGTCCCTGACAGGGGATCACTCACCTTCCGACCAGCG
13414 IS [GA] TCCCAGTCCTGCGGCTCCTACTGGGGAGTGCGCTGGTCGGAAGGTGAGTGATCCCCTGTC[GA]GGGACCGGGGGACTTGGGAAGGACAGTTCCCGGACTGGACGGCCAGAACGCTCTCAGGGA ctg12325 11
13540 I S CGTTTCCACGGGCGAACCCCAGTTC
13540 P C S ATGACGTGGCAGACGGGGCGGGCTCY
13540 P A S CGCGCCCAGGTGGGCGGGCTCY
13540 T C S GCCCGAGCCCGCCCCAACTGGGGTTCGCCCGTGGAAACGTC
13540 T A S GCCCGAGCCCGCCCAAACTGGGGTTCGCCCGTGGAAACGTC
13540 IS [CA] GAATCGGAAGTGGCCGCGCGCGGCGAGTGCAGGCTCACACATCACAGCCCGAGCCGCCC[CA]AACTGGGGTTCGCCCGTGGAAACGTCCCTGGGTCACCCAAGCCACCGCGTCGCAGGGTTCAC ctg19 19
13716 I A GACACCTTGAGCTAGCCGGTAACTCCTGATCAA
13716 P C A ATGACGTGGCAGACCGTGCTGCTAAGAACGY
13716 P T A CGCGCCGAGGTGTGCTGCTAAGAACGY
13716 T C A AAAACGTTCTTAGCAGCACGTGATCAGGAGTTACCGCCTAGCTCAAGGTGTCTT
13716 T T A AAAACGTTCTTAGCAGCACATGATCAGGAGTTACCGCCTAGCTCAAGGTGTCTT
13716 IS [CT] ATTGCTTTAAGGTAAAAAACAGGTGGAAAGACACCTGAGCTAGGCGGTAACTCCTGATCA[CT]GTGCTGCTAAGAACGTTTTGTAGAGTGCGGGAGTCTTACGGGTTCAGAGACTGTGGAGG A ctg18911 9
13837 I S GAAAGACAGTTAAACTGTATAGTGGAGTGCTCTGCAGCAA
13837 P G S ATGACGTGGCAGACCCCTACAGACAGAGCTGY
13837 P A S CGCGCCGAGGTCCTACAGACAGAGCTGY
13837 T G S CAGCCAGCTCTGTCTGTAGGGTGCTGCAGAGCACTCCACTATACAGTTAACTGTCTTTCCA
13837 T A S CAGCCAGCTCTGTCTGTAGGATGCTGCAGAGCACTCCACTATACAGTTAACTGTCTTTCCA
13837 IS [GA] GGGGTCCTGTTGGTCAGCTCTGAGCCACATCCATTCCTCTCAGCCAGCTCTGTCTGTAGG[GA]TGCTGCAGAGCACTCCACTATACAGTTTAACTGTCTTTCCAAACAATTGGTTACTTAAAC ctg22fin4 22
13894 I A GGGTCGCAGTTGGAGATTTTGAAGTGGCACTTTAT
13894 P C A ATGACGTGGCAGACCATTTGCCCAGAGAGCY
13894 P A A CGCGCCGAGGAATTTGCCCAGAGAGCY
13894 T C A CAGAGCTCTCTGGGCAAATGTAAAGTGCCACTTCAAAATCTCCAACTGCGACCCGT
13894 T A A CAGAGCTCTCTGGGCAAATTTAAAGTGCCACTTCAAAATCTCCAACTGCGACCCGT
13894 IS [CA] CTGGGTCTGGGGTGGGCATCCGCCACGGGTGCAGTTGGAGATTTTGAAGTGGCACTTTA[CA]ATTGCCCAGAGAGCTCTGGAAGAGGCAAAAAGGGAACGCGAGCCAGGGAGTTTGATCCG ctg22fin6 22
13925 I A GTTTTCCAACAGAACCAGACAGGTTTCTCCTGAAACTCTTTCT
13925 P A A CGCGCCGAGGATTATACGCCATGTACTGTTCY
13925 P G A ATGACGTGGCAGACGTTATACGCCATGTACTGTTY
13925 T A A ATATGAACAGTACATGGCGTATAATGAAAGAGTTTCAGGAGAAACCTGTCTGGTTCTGTTGGAAAAACTC
13925 T G A ATATGAACAGTACATGGCGTATAACGAAAGAGTTTCAGGAGAAACCTGTCTGGTTCTGTTGGAAAAACTC
13925 IS [AG] CTGCGCCAGGAGACGGAGTTTTTCCAACAGAACCAGACAGGTTTCTCCTGAAACTCTTTC[AG]TTATACGCCATGTACTGTTCATATCCTCATACATCTGCTTTGATCTCCCCCTCCCCGCT ctg22fin6 22
13930 I A GGAAGCAGCTGCGGAAAGCCAATAAGAGTGGT
13930 P A A CGCGCCGAGGAGGAATCGATGACGTCAY
13930 P G A ATGACGTGGCAGACGGGAATCGATGACGTCY
13930 T A A TGGTTGACGTCATCGATTCCTCCACTCTTATTGGCTTTCCGCAGCTGCTTCCTC
13930 T G A TGGTTGACGTCATCGATTCCCCCACTCTTATTGGCTTTCCGCAGCTGCTTCCTC
13930 IS [AG] AATTGCCACGAAGCTCCTGTGGAGGCAAGGAAGCAGCTGCGGAAAGCCAATAAGAGTGG[AG]GGAATCGATGACGTCAACCAATGGGGACGCGGGGATATTACGGCCAATGAGAATGGAGA A
14068 I S GCCCAAGAAGAGCGCCCACCCCT
14068 P T S CGCGCCGAAGATGCGATGCCCAGGY
14068 P C S ATGACGTGGCAGACGTGCGATGCCCAGY
14068 T T S CCTGCCTGGGCATCGCATGGGGTGGGCGCTCTCTTGGGCTG
14068 T C S CCTGCCTGGGCATGGCACGGGGTGGGCGCTCTCTTGGGCTG
14068 IS [TC] GTCACAAACGACCCATGGGGGTCACAGAGTCCTGGCTTTTGCCCCTGCCTGGGCATCGCA[TC]GGGGTGGGCGCTCTCTTGGGCTGAGCTGGGGGAGTGAACCTCACACTTCCTGACATGGTA
14117 I S CCCAGCCCCTTCCCCCAGCTA
14117 P G S ATGACGTGGCAGACCCAGCGGGTGCTY
14117 P A S CGCGCCGAGGTCAGCGGGTGCTTTY
14117 T G S ACCAAAGCACCCGCTGGAGCTGGGGGAAGGGGCTGGGCC
14117 T A S ACCAAAGCACCCGCTGAAGCTGGGGGAAGGGGCTGGGCC
14117 IS [GA] CACCAGGGTGAAAGAGGTCACCGCTAAGGCCTTTCCTCCTCTGACCAAAAGCACCCGCTG[GA]AGCTGGGGGAAGGGGCTGGGCCCCACATTCTGTTAGTTCTTGAGCTGCCTGCACTCGGCA ctg15379 X
14294 I A TCACTTCTTCTAGCTCCAAAAGATTCCAGTCACTCCCAAATTTTA
14294 P T A CGCGCCGAGGTGTTATAGGGAAACGCCTY

FIGURE 129F

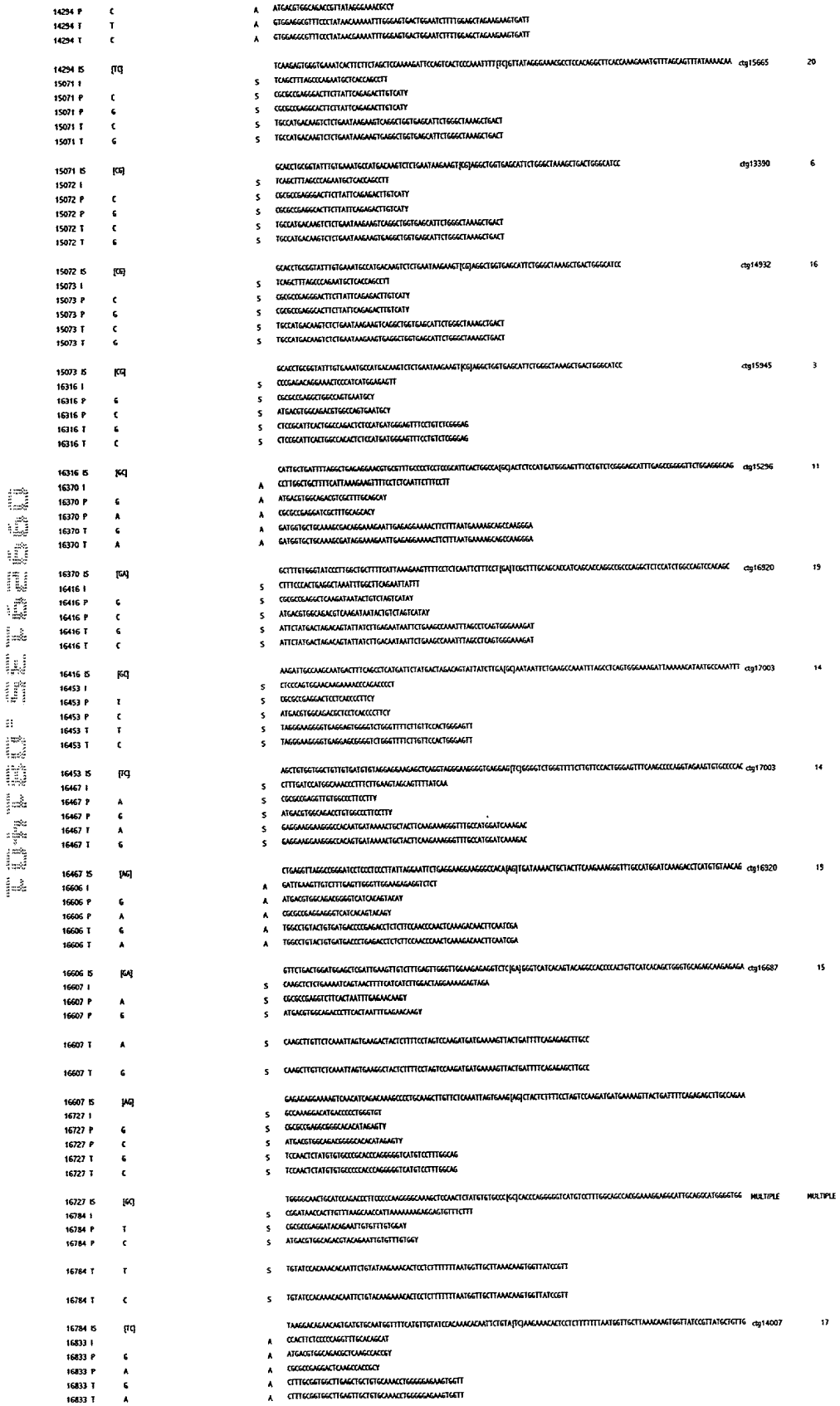

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14294 IS [TC] TCAAGAGTGGGTGAAATCACTTCTTCTAGCTCCAAAAGATTCCAGTCACTCCCAAATTTT[TC]GTTATAGGGAAACGCCTCCACAGGCTTCACCAAAGAAATGTTTAGCAGTTTATAAAACAA ctg15665 20
15071 I S TCAGCTTTAGCCCAGAATGCTCACCAGCCTT
15071 P C S CGCGCCGAGGGACTTCTTATTCAGAGACTTGTCATY
15071 P G S CGCGCCGAGGGACTTCTTATTCAGAGACTTGTCATY
15071 T C S TGCCATGACAAGTCTCTGAATAAGAAGTCAGGCTGGTGAGCATTCTGGGCTAAAGCTGACT
15071 T G S TGCCATGACAAGTCTCTGAATAAGAAGTGAGGCTGGTGAGCATTCTGGGCTAAAGCTGACT
15071 IS [CG] GCACCTGCGGTATTTGTGAAATGCCATGACAAGTCTCTGAATAAGAAGT[CG]AGGCTGGTGAGCATTCTGGGCTAAAGCTGACTGGGCATCC ctg13390 6
15072 I S TCAGCTTTAGCCCAGAATGCTCACCAGCCTT
15072 P C S CGCGCCGAGGGACTTCTTATTCAGAGACTTGTCATY
15072 P G S CGCGCCGAGGGACTTCTTATTCAGAGACTTGTCATY
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15073 I S TCAGCTTTAGCCCAGAATGCTCACCAGCCTT
15073 P C S CGCGCCGAGGGACTTCTTATTCAGAGACTTGTCATY
15073 P G S CGCGCCGAGGGACTTCTTATTCAGAGACTTGTCATY
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16316 I S CCCGAGACAGGAAACTCCCATCATGGAGAGTT
16316 P G S CGCGCCCAGGCTGGCCAGTGAATGCY
16316 P C S ATGACGTGGCAGACGTGGCCAGTGAATGCY
16316 T G S CTCCGCATTCACTGGCCAGACTCTCCATGATGGGAGTTTCCTGTCTCGGGAG
16316 T C S CTCCGCATTCACTGGCCAGACTCTCCATGATGGGAGTTTCCTGTCTGGGGAG
16316 IS [GC] CATTGCTGATTTTAGGCTGAGAGGAACGTGCGTTTGCCCCTCGTCCGCATTCACTGGCCA[GC]ACTCTCCATGATGGGAGTTTCCTGTCTCGGGAGCATTTGAGCCGGGGTCTGGAGGGCAG ctg15296 11
16370 I A CCTTGGCTGCTTTCATTAAAGAAGTTTCCTCTCAATTCTTTCCTT
16370 P G A ATGACGTGGCAGACGTCGCTTTGCAGCAY
16370 P A A CGCGCCGAGGATCGCTTTGCAGCACY
16370 T G A GATGGTGCTGCAAAGCGACAGGAAAGAATTGAGAGGAAAACTTCTTTAATGAAAAGCAGCCAAGGGA
16370 T A A GATGGTGCTGCAAAGCGATAGGAAAGAATTGAGAGGAAAACTTCTTTAATGAAAAGCAGCCAAGGGA
16370 IS [GA] GCTTTGTGGGTATCCCTTGGCTGCTTTTCATTAAAGAAGTTTTCCTCTCAATTCTTTCCT[GA]TCGCTTTGCAGCACCATCAGCACCAGGCCGCCCAGGCTCTCCATCTGGCCAGTCCACAGC ctg16820 19
16416 I S CTTTCCCACTGAGGCTAAATTTGGCTTCAGAATTATTT
16416 P G S CGCGCCGAGGCTCAAGATAATACTGTCTAGTCATAY
16416 P C S ATGACGTGGCAGACGTCAAGATAATACTGTCTAGTCATAY
16416 T G S ATTCTATGACTAGACAGTATTATCTTGAGAATAATTCTGAAGCCAAATTTAGCCTCAGTGGGAAAGAT
16416 T C S ATTCTATGACTAGACAGTATTATCTTGACAATAATTCTGAAGCCAAATTTAGCCTCAGTGGGAAAGAT
16416 IS [GC] AAGATTGCCAAGCAATGACTTTCAGCCTCATGATTCTATGACTAGACAGTATTATCTTGA[GC]AATAATTCTGAAGCCAAATTTAGCCTCAGTGGGAAAGATTAAAAACATAATGCCAAATTT ctg17003 14
16453 I S CTCCCAGTGGAACAAGAAAACCCAGACCCCT
16453 P T S CGCGCCGAGGACTCCTCACCCCTTCY
16453 P C S ATGACGTGGCAGACGCCTCCTCACCCCTTCY
16453 T T S TAGGGAAGGGGTGAGGAGTGGGGTCTGGGTTTTCTTGTTCCACTGGGAGTT
16453 T C S TAGGGAAGGGGTGAGGAGCGGGGTCTGGGTTTTCTTGTTCCACTGGGAGTT
16453 IS [TC] AGCTGTGGTGGCTGTTGTGATGTGTAGGAGGAAGAGCTCAGGTAGGGAAGGGGTGAGGAG[TC]GGGGTCTGGGTTTTCTTGTTCCACTGGGAGTTTCAAGCCCCAGGTAGAAGTGTGCCCCAC ctg17003 14
16467 I S CTTTGATCCATGGCAAACCCTTTCTTGAAGTAGCAGTTTTATCAA
16467 P A S CGCGCCGAGGTTGTGGCCCTTCCTTY
16467 P G S ATGACGTGGCAGACCTGTGGCCCTTCCTTY
16467 T A S GAGGAAGGAAGGGCCACAATGATAAAACTGCTACTTCAAGAAAGGGTTTGCCATGGATCAAAGAC
16467 T G S GAGGAAGGAAGGGCCACAGTGATAAAACTGCTACTTCAAGAAAGGGTTTGCCATGGATCAAAGAC
16467 IS [AG] CTGAGGTTAGGCCGGGATCCTCCCTCCCTTATTAGGAATTCTGAGGAAGGAAGGGCCACA[AG]TGATAAAACTGCTACTTCAAGAAAGGGTTTGCCATGGATCAAAGACCTCATGTGTAACAG ctg16920 15
16606 I A GATTGAAGTTGTCTTTGAGTTGGGTTGGAAGAGAGGTCTCT
16606 P G A ATGACGTGGCAGACGGGGTCATCACAGTACAY
16606 P A A CGCGCCGAGAGAGGGTCATCACAGTACAGY
16606 T G A TGGCCTGTACTGTGATGACCCGAGACCTCTCTTCCAACCCAACTCAAAGACAACTTCAATCGA
16606 T A A TGGCCTGTACTGTGATGACCCTGAGACCTCTCTTCCAACCCAACTCAAAGACAACTTCAATCGA
16606 IS [GA] GTTCTGACTGGATGGAGCTCGATTGAAGTTGTCTTTGAGTTGGGTTGGAAGAGAGGTCTC[GA]GGGTCATCACAGTACAGGCCACCCCACTGTTCATCACAGCTGGGTGCAGAGCAAGAGAGA ctg16687 15
16607 I S CAAGCTCTCTGAAAATCAGTAACTTTTCATCATCTTGGACTAGGAAAAGAGTAGA
16607 P A S CGCGCCGAGGTCTTCACTAATTTGAGAACAAGY
16607 P G S ATGACGTGGCAGACCCTTCACTAATTTGAGAACAAGY
16607 T A S CAAGCTTGTTCTCAAATTAGTGAAGACTACTCTTTCCTAGTCCAAGATGATGAAAAGTTACTGATTTTCAGAGAGCTTGCC
16607 T G S CAAGCTTGTTCTCAAATTAGTGAAGGCTACTCTTTCCTAGTCCAAGATGATGAAAAGTTACTGATTTTCAGAGAGCTTGCC
16607 IS [AG] GAGAGAGGAAAAGTCAACATCAGACAAAGCCCCTGCAAGCTTGTTCTCAAATTAGTGAAG[AG]CTACTCTTTCCTAGTCCAAGATGATGAAAAGTTACTGATTTTCAGAGAGCTTGCCAGAA
16727 I S GCCAAAGGACATGACCCCCTGGGTGT
16727 P G S CGCGCCGAGGCGGGCACACATAGAGTY
16727 P C S ATGACGTGGCAGACGGGGCACACATAGAGTY
16727 T G S TCCAACTCTATGTGTGCCCCACCCAGGGGGTCATGTCCTTTGGCAG
16727 T C S TCCAACTCTATGTGTGCCCCACCCAGGGGGTCATGTCCTTTGGCAG
16727 IS [GC] TGGGGCAACTGCATCCAGACCCTTCCCCCAAGGGCAAAGCTCCAACTCTATGTGTGCCC[GC]CACCCAGGGGGTCATGTCCTTTGGCAGCCACGGAAAGGAGGCATTGCAGGCATGGGGTGG MULTIPLE MULTIPLE
16784 I S CGGATAACCACTTGTTTAAGCAACCATTAAAAAAAAGAGCAGTGTTTCTTT
16784 P T S CGCGCCGAGGATACAGAATTGTGTTTGTGGAY
16784 P C S ATGACGTGGCAGACGTACAGAATTGTGTTTGTGGY
16784 T T S TGTATCCACAAACACAATTCTGTATAAGAAACACTCCTCTTTTTTAATGGTTGCTTAAACAAGTGGTTATCCGTT
16784 T C S TGTATCCACAAACACAATTCTGTACAAGAAACACTCCTCTTTTTTAATGGTTGCTTAAACAAGTGGTTATCCGTT
16784 IS [TC] TAAGGACAGAACAGTGATGTGCAATGGTTTTCATGTTGTATCCACAAACACAATTCTGTA[TC]AAGAAACACTCCTCTTTTTTAATGGTTGCTTAAACAAGTGGTTATCCGTTATGCTGTTG ctg14007 17
16833 I A CCACTCTCCCCCAGGTTTGCACAGCAT
16833 P G A ATGACGTGGCAGACGCTCAAGCCACCGY
16833 P A A CGCGCCGAGGACTCAAGCCACCGCY
16833 T G A CTTTGCGGTGGCTTGAGCTGCTGTGCAAACCTGGGGGAGAAGTGGTT
16833 T A A CTTTGCGGTGGCTTGAGTTGCTGTGCAAACCTGGGGGAGAAGTGGTT

FIGURE 129F

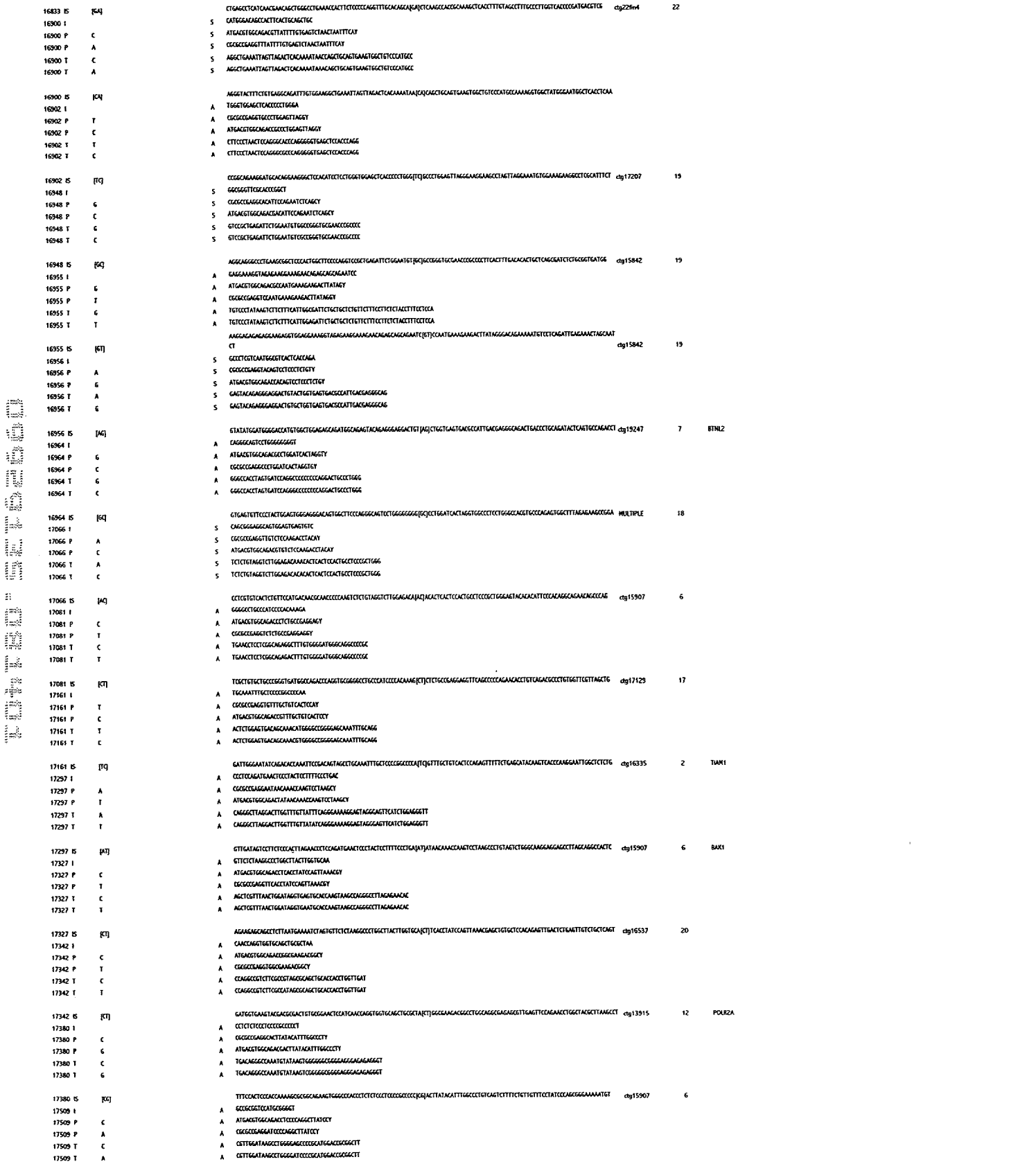
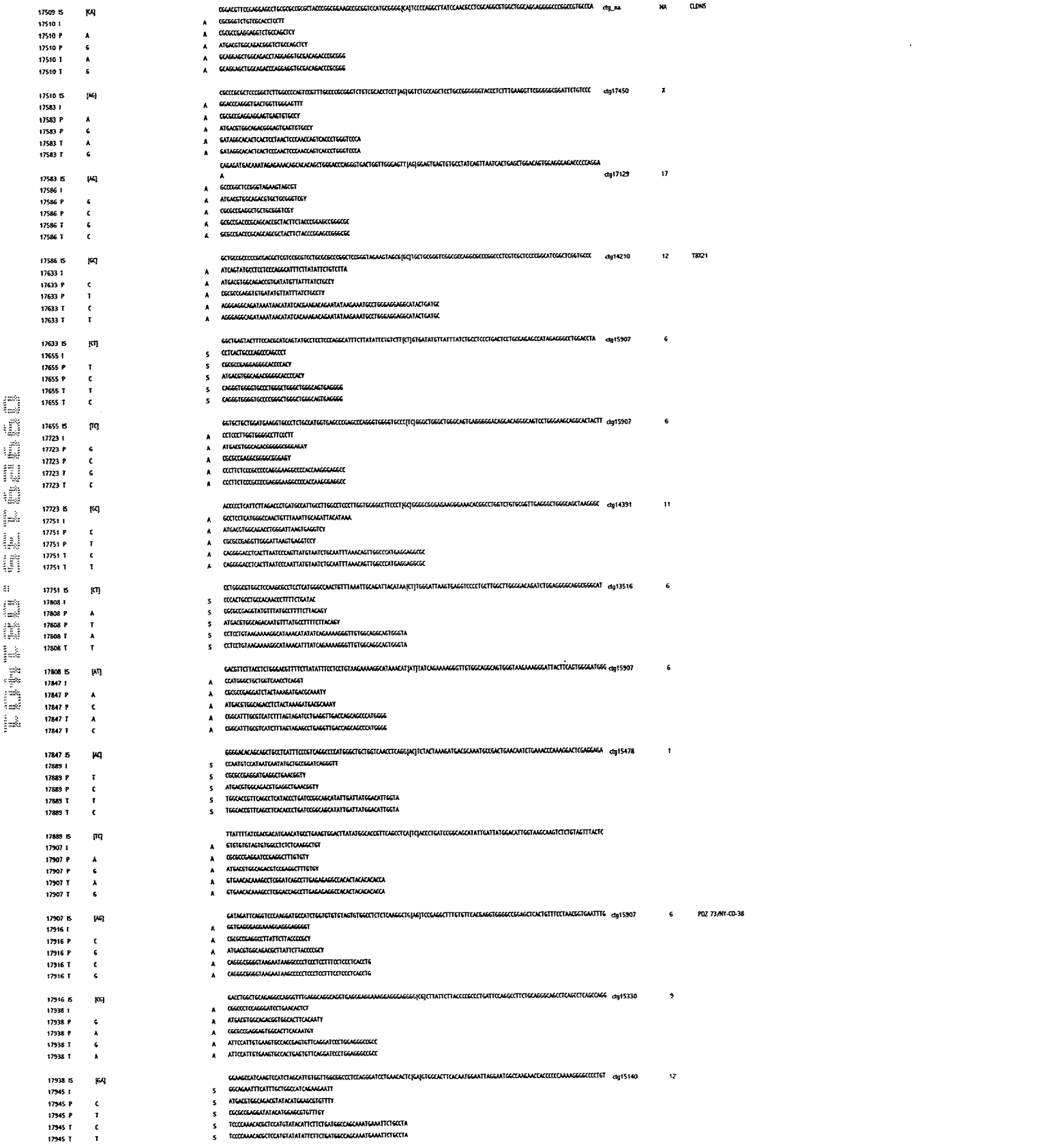

16833 IS [GA] CTGAGCCTCATCAACGAACAGCTGGGCCTGAAACCACTTCTCCCCCAGGTTTGCACAGCAG[A/G]CTCAAGCCACCGCAAAGCTCACCTTTGTAGCCTTTGCCCTTGGTCACCCCGATGACGTCG ctg22fm4 22
16900 I S CATGGGACAGCCACTTCACTGCAGCTGC
16900 P C S ATGACGTGGCAGACGTTATTTTGTGAGTCTAACTAATTTCAT
16900 P A S CGCGCCGAGGTTTATTTTGTGAGTCTAACTAATTTCAT
16900 T C S AGGCTGAAATTAGTTAGACTCACAAAATAACCAGCTGCAGTGAAGTGGCTGTCCCATGCC
16900 T A S AGGCTGAAATTAGTTAGACTCACAAAATAAACAGCTGCAGTGAAGTGGCTGTCCCATGCC
16900 IS [CA] AGGGTACTTTCTGTGAGGCAGATTTGTGGAAGGCTGAAATTAGTTAGACTCACAAAATAA[C/A]CAGCTGCAGTGAAGTGGCTGTCCCATGCCAAAAGGTGGCTATGGGAATGGCTCACCTCAA
16902 I A TGGGTGGAGCTCACCCCCTGGGA
16902 P T A CGCGCCGAGGTGCCCTGGAGTTAGGY
16902 P C A ATGACGTGGCAGACCGCCCTGGAGTTAGGY
16902 T T A CTTCCCTAACTCCAGGGCACCCAGGGGGTGAGCTCACCCAGG
16902 T C A CTTCCCTAACTCCAGGGCGCCCAGGGGGTGAGCTCACCCAGG
16902 IS [TC] CCGGCAGAAGGATGCACAGGAAGGGCTCCAACATCCTCCTGGGTGGAGCTCACCCCCTGGG[T/C]GCCCTGGAGTTAGGGAAGGAAGCCTAGTTAGGAAATGTGGAAAGAAGGCCTCGCATTTCT ctg17207 19
16948 I S GGCGGGTTCGCACCCGGCT
16948 P G S CGGCCCAGGCACATTCCAGAATCTCAGCY
16948 P C S ATGACGTGGCAGACGACATTCCAGAATCTCAGCY
16948 T G S GTCCGCTGAGATTCTGGAATGTGGCCGGGTGCGAACCCGCCCC
16948 T C S GTCCGCTGAGATTCTGGAATGTCGCCGGGTGCGAACCCGCCCC
16948 IS [GC] AGGCAGGGCCCTGAAGCGGCTCCCACTGGCTTCCCCAGGTCCGCTGAGATTCTGGAATGT[G/C]GCCGGGTGCGAACCCGCCCCTTCACTTTGACACACTGCTCAGCGATCTCTGCGGTGATGG ctg15842 19
16955 I A GAAGAAAGGTAGAGAAGGAAAGAACAGAGCAGCAGAATCC
16955 P G A ATGACGTGGCAGACGCCAATGAAAGAAGACTTATAGY
16955 P T A CGCGCCGAGGTCCAATGAAAGAAGACTTATAGGY
16955 T G A TGTCCCTATAAGTCTTCTTTCATTGGCGATTCTGCTGCTCTGTTCTTTCCTCTCTACCTTTCCTCCA
16955 T T A TGTCCCTATAAGTCTTCTTTCATTGGAGATTCTGCTGCTCTGTTCTTTCCTCTCTACCTTTCCTCCA
16955 IS [GT] AAGGAGACAGAGGAAGAGGTGGAGGAAAGGTAGAGAAGGAAACAACAGAGCAGCAGAATC[G/T]CCAATGAAAGAAGACTTATAGGGACAGAAAAATGTCCTCAGATTGAGAAACTAGCAAT CT ctg15842 19
16956 I S GCCCTCGTCAATGGGGTCACTCACCAGA
16956 P A S CGCGCCGAGGTACAGTCCTCCCTCTGTY
16956 P G S ATGACGTGGCAGACCACAGTCCTCCCTCTGY
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16956 T G S GAGTACAGAGGGAGGACTGTGCTGGTGAGTGACGCCATTGACGAGGGCAG
16956 IS [AG] GTATATGGATGGGGACCATGTGGCTGGAGAGCAGATGGCAGAGTACAGAGGGAGGACTGT[A/G]CTGGTGAGTGACGCCATTGACGAGGGCAGACTGACCCTGCAGATACTCAGTGCCAGACCT ctg15247 7 BTNL2
16964 I A CAGGGCAGTCCTGGGGGGGGT
16964 P G A ATGACGTGGCAGACGCCTGGATCACTAGGTY
16964 P C A CGCGCCGAGGCCCTGGATCACTAGGTGY
16964 T G A GGGCCACCTAGTGATCCAGGCCCCCCCCAGGACTGCCCTGGG
16964 T C A GGGCCACCTAGTGATCCAGGCCCCCCCCAGGACTGCCCTGGG
16964 IS [GC] GTGAGTGTTCCCTACTGGAGTGGGAGGGACAGTGGCTTCCCAGGGCAGTCCTGGGGGGGGG[G/C]CCTGGATCACTAGGTGGCCCTCCTGGGCCACGTGCCCAGAGTGGCTTTAGAGAAGCCGGA MULTIPLE 18
17066 I S CAGCGGGAGGCAGTGGAGTGAGTGTC
17066 P A S CGCGCCGAGGTTGTCTCCAAGACCTACAY
17066 P C S ATGACGTGGCAGACGTGTCTCCAAGACCTACAY
17066 T A S TCTCTGTAGGTCTTGGAGACAAACACTCACTCCACTGCCTCCCGCTGGG
17066 T C S TCTCTGTAGGTCTTGGAGACACACACTCACTCCACTGCCTCCCGCTGGG
17066 IS [AC] CCTCGTGTCACTCTGTTCCATGACAACGCAACCCCCAAGTCTCTGTAGGTCTTGGAGACA[A/C]ACACTCACTCCACTGCCTCCCGCTGGGAGTACACACATTCCCACAGGCAGAACAGCCCAG ctg15907 6
17081 I A GGGGCCTGCCCATCCCCACAAAGA
17081 P C A ATGACGTGGCAGACCCTCTGCCGAGGAGY
17081 P T A CGCGCCGAGGTCTCTGCCGAGGAGY
17081 T C A TGAACCTCCTCGGCAGAGGCTTTGTGGGGATGGGCAGGCCCCGC
17081 T T A TGAACCTCCTCGGCAGAGACTTTGTGGGGATGGGCAGGCCCCGC
17081 IS [CT] TCGCTGTGCTGCCCGGGTGATGGCCAGACCCAGGTGCGGGGCCTGCCCATCCCCACAAAG[C/T]CTCTGCCGAGGAGGTTCAGCCCCAGAACACCTGTCAGACGCCCTGTGGTTCGTTAGCTG ctg17129 17
17161 I A TGCAAATTTGCTCCCCGCCCCAA
17161 P T A CGCGCCGAGGTGTTTGCTGTCACTCCAY
17161 P C A ATGACGTGGCAGACCGTTTGCTGTCACTCCY
17161 T T A ACTCTGGAGTGACAGCAAACATGGGGCCGGGGAGCAAATTTGCAGG
17161 T C A ACTCTGGAGTGACAGCAAACGTGGGGCCGGGGAGCAAATTTGCAGG
17161 IS [TC] GATTGGGAATATCAGACACACAAATTCCGACAGTAGCCTGCAAATTTGCTCCCCGCCCCA[T/C]GTTTGCTGTCACTCCAGAGTTTTCTGAGCATACAAGTCACCCAAGGAATTGGCTCTCTG ctg16335 2 TIAM1
17297 I A CCCTCCAGATGAACTCCCTACTCCTTTCCCTGAC
17297 P A A CGCGCCGAGGAATAACAAACCAAGTCCTAAGCY
17297 P T A ATGACGTGGCAGACTATAACAAACCAAGTCCTAAGCY
17297 T A A CAGGGCTTAGCACTTGGTTTGTTATTTCAGGGAAAAGGAGTAGGGAGTTCATCTGGAGGGTT
17297 T T A CAGGGCTTAGCACTTGGTTTGTTATATCAGGGAAAAGGAGTAGGGAGTTCATCTGGAGGGTT
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17327 I A GTTCTCTAAGGCCCTGGCTTACTTGGTGCAA
17327 P C A ATGACGTGGCAGACCTCACCTATCCAGTTAAACGY
17327 P T A CGCGCCGAGGTTCACCTATCCAGTTAAACGY
17327 T C A AGCTCGTTTAACTGGATAGGTGAGTGCNCCAAGTAAGCCAGGGCCTTAGAGAACAC
17327 T T A AGCTCGTTTAACTGGATAGGTGAATGCNCCAAGTAAGCCAGGGCCTTAGAGAACAC
17327 IS [CT] AGAAGAGCAGCCTCTTAATGAAAATCTAGTGTTCTCTAAGGCCCTGGCTTACTTGGTGCA[C/T]TCACCTATCCAGTTAAACGAGCTGTGCTCCACAGAGTTGACTCTGAGTTGTCTGCTCAGT ctg16537 20
17342 I A CAACCAGGTGGTGCAGCTGCGCTAA
17342 P C A ATGACGTGGCAGACCGCGCGAAGACGGCY
17342 P T A CGCGCCGAGGTGGCGAAGACGGCY
17342 T C A CCAGGCCGTCTTCGCCGTAGCGCAGCTGCACCACCTGGTTGAT
17342 T T A CCAGGCCGTCTTCGCCATAGCGCAGCTGCACCACCTGGTTGAT
17342 IS [CT] GATGGTGAAGTACGACGGACTGTGCGGAACTCCATCAACCAGGTGGTGCAGCTGCGCTA[C/T]GGCGAACACGGCCTGCGCAGGCGAGAGGGTTGAGTTCCAGAACCTGGCTACGCTTAAGCCT ctg13915 12 POLR2A
17380 I A CCTCTCTCCCCTCCCCCCCCCT
17380 P C A CGCGCCGAGGCACTTATACATTTGGCCCTY
17380 P G A ATGACGTGGCAGACGACTTATACATTTGGCCCTY
17380 T C A TGACAGGGCCAAATGTATAAGTGGGGGGCGGGGAGGGACAGAGAGGT
17380 T G A TGACAGGGCCAAATGTATAAGTCGGGGGCGGGGAGGGACAGAGAGGT
17380 IS [CG] TTTCCACTCCCACCAAAAGCGCGGCAGAAGTGGGCCCACCCTCTCTCCCTCCCCGCCCC[C/G]ACTTATACATTTGGCCCTGTCAGTCTTTTCTGTTGTTTCCTATCCCAGCGGGAAAAATGT ctg15907 6
17509 I A GCCGCGGTCCATGCGGGGT
17509 P C A ATGACGTGGCAGACCTCCCCAGGCTTATCCY
17509 P A A CGCGCCGAGGATCCCCAGGCTTATCCY
17509 T C A CGTTGGATAAGCCTGGGGAGCCCCGCATGGACCGCGGCTT
17509 T A A CGTTGGATAAGCCTGGGGATCCCCGCATGGACCGCGGCTT

FIGURE 129F



Human Genome Sciences, Inc.

FIGURE 129F

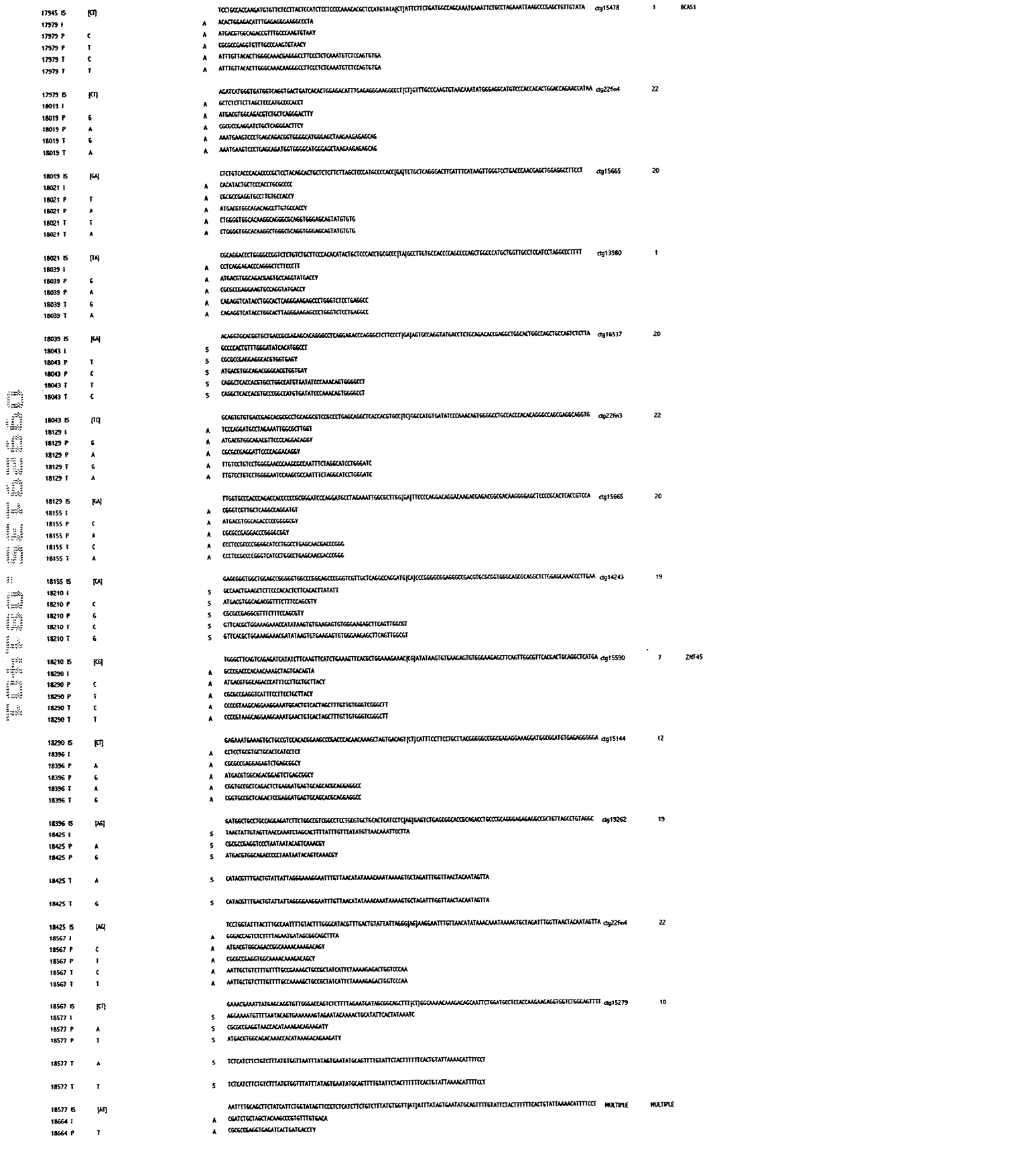
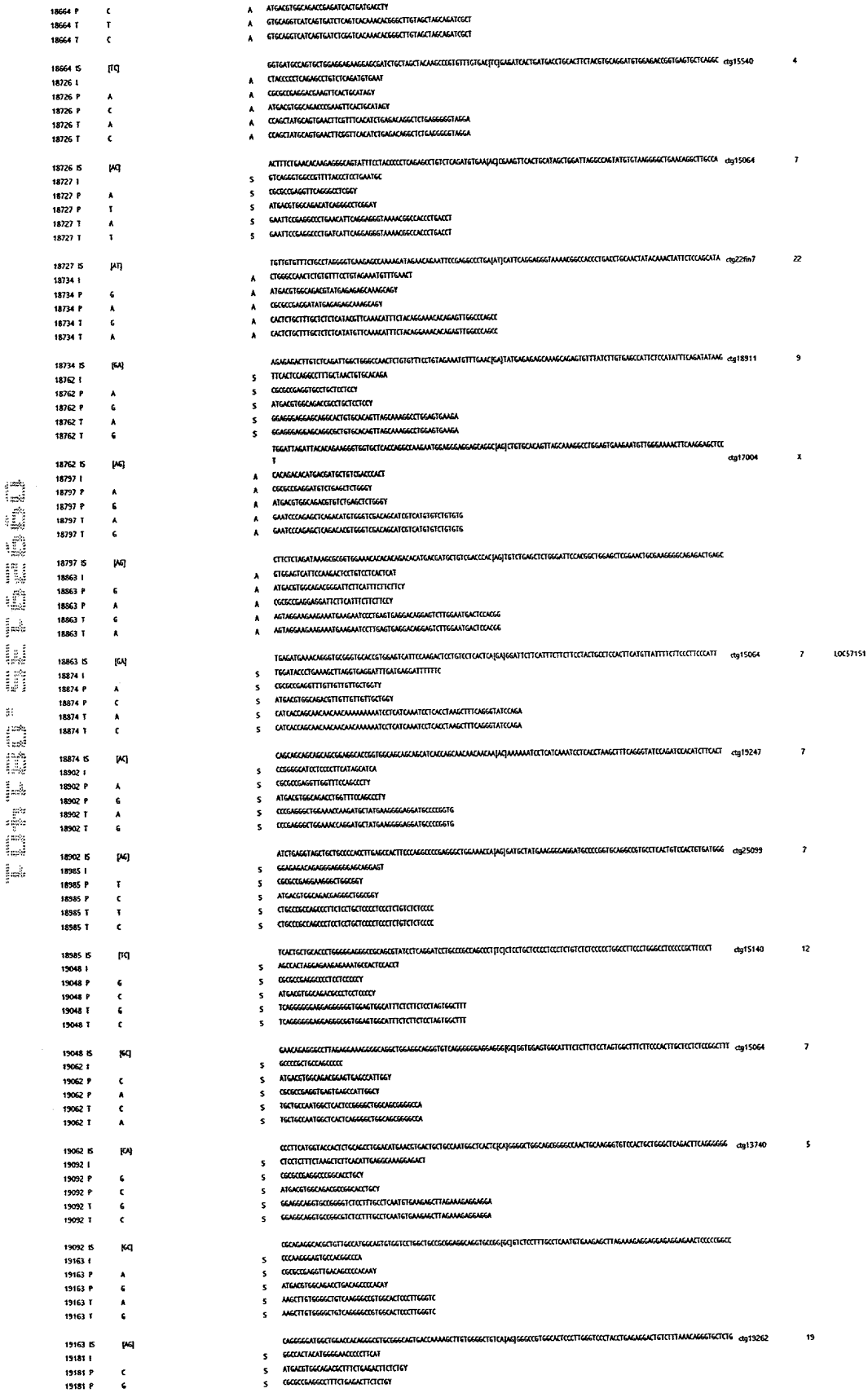

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18129 IS [GA] TTGGTGCCCACCCAGACCACCCCCCGCGGGATCCCAGGATGCCTAGAAATTGGCGCTTGG[GA]TTCCCCAGGACAGGACAAGACGAGACGGCGACAAGGGGAGCTCCCCGCACTCACCGTCCA ctg15665 20
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18155 P C A ATGACGTGGCAGACCCCCGGGGCGY
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18155 T C A CCCTCCCCCCCGGGGCATCCTGGCCTGAGCAACGACCCGGG
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18210 T C S GTTCACGCTGCAAAGAAACCATATAAGTGTGAAGAGTGTGGGAAGAGCTTCAGTTGCGGT
18210 T G S GTTCACGCTGCAAAGAAACGATATAAGTGTGAAGAGTGTGGGAAGAGCTTCAGTTGCGGT
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18396 P A A CGCGCCGAGGAGAGTCTGAGCGGCY
18396 P G A ATGACGTGGCAGACGGAGTCTGAGCGGCY
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18396 T G A CGGTGCCGCTCAGACTCCGAGGATGAGTGCAGCACGCAGGAGGCC
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18425 I S TAACTATTGTAGTTAACCAAATCTAGCACTTTATTTGTTTATATGTTAACAAATTCCTTA
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18664 I A CGATCTGCTAGCTACAAGCCCGTGTTTGTGACA
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FIGURE 129F



Sequence Listing Page 1 of 1 Application No. 10/781,655 Attorney Docket No. 10466-0001

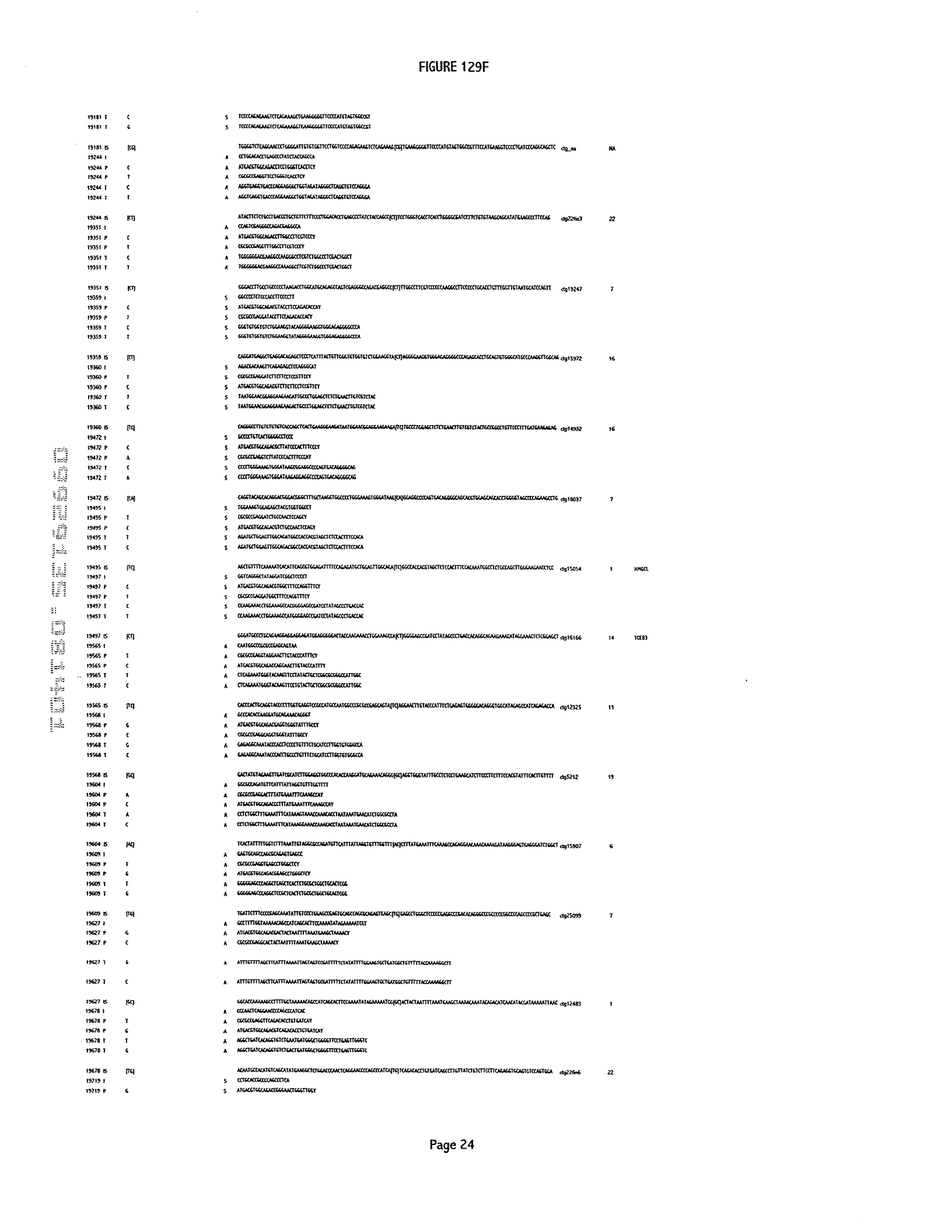

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19244 T C A AGGTGAGGTGACCCAGGAGGGCTGGTAGATAGGGCTCAGGTGTCCAGGCA
19244 T T A AGGTGAGGTGACCCAGGAAGGCTGGTAGATAGGGCTCAGGTGTCCAGGGA
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19359 T C S GGGTGTGGTGTCTGGAAGGTACAGGGGAAGGTGGGAGAGGGCCCA
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19497 I S GGTCAGGGCTATAGGATCGGCTCCCCT
19497 P C S ATGACGTGGCAGACGTGGCTTTCCAGGTTTCY
19497 P T S CGCGCCGAGGATGGCTTTCCAGGTTTCY
19497 T C S CCAAGAAACCTGGAAAGCCACGGGGAGGCGATCCTATAGCCCTGACCAC
19497 T T S CCAAGAAACCTGGAAAGCCATGGGGAGCCGATCCTATAGCCCTGACCAC
19497 IS [CT] GGGATGGCCTGCAGAAGGAGGAGGAGATGGAGGGGGACTACCAAGAAACCTGGAAAGCCA[CT]GGGGAGCCGATCCTATAGCCCTGACCACAGGCAGAGAAACATAGGAAACTCTCGGAGCT ctg16166 14 TCEB3
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19609 T G A GGGGGAGCCCAGGCTCCGCTCACTCTGCGCTGGCTGCACTCGG
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19627 I A GCCTTTTGGTAAAAACAGCCATCAGCACTTCCAAAATATAGAAAAATCGT
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19627 P C A CGCGCCGAGGCACTACTAATTTTAAATGAAGCTAAAACY
19627 T G A ATTTGTTTTAGCTTCATTTAAAATTAGTAGTCCGATTTTTCTATATTTTGGAAGTGCTGATGGCTGTTTTACCAAAAGGCTT
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FIGURE 129F

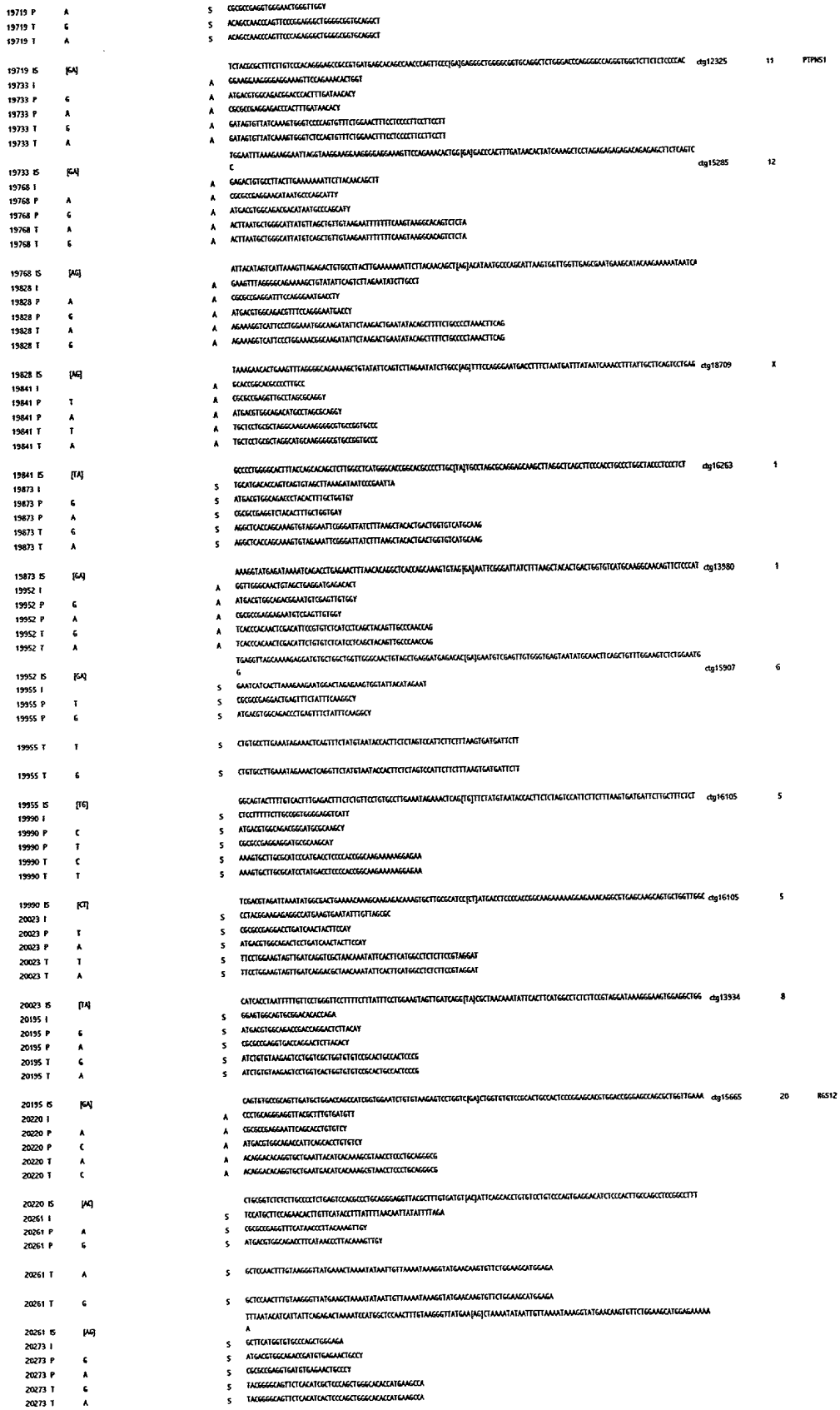

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19828 P G A ATGACGTGGCAGACGTTTCCAGGGAATGAKCY
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20220 P A A CGCGCCGAGGAATTCAGCACCTGTGTCY
20220 P C A ATGACGTGGCAGACCATTCAGCACCTGTGTCY
20220 T A A ACAGGACACAGGTGCTGAATTACATCACAAAGCGTAACCTCCCTGCAGGGCG
20220 T C A ACAGGACACAGGTGCTGAATGACATCACAAAGCGTAACCTCCCTGCAGGGCG
20220 IS [AC] CTGCGGTCTCTCTTGCCCCTCTGAGTCCAGGCCTGCAGGGAGGTTACGCTTTGTGATGT[AC]ATTCAGCACCTGTGTCCTGTCCCAGTGAGGACATCTCCCACTTGCCAGCCTCCGGCCTTT
20261 I S TCCATGCTTCCAGAACACTTGTTCATACCTTTATTTTAACAATTATATTTTAGA
20261 P A S CGCGCCGAGGTTTCATAACCCTTACAAAGTTGY
20261 P G S ATGACGTGGCAGACCTTCATAACCCTTACAAAGTTGY
20261 T A S GCTCCAACTTTGTAAGGGTTATGAAACTAAAATATAATTGTTAAAATAAAGGTATGAACAAGTGTTCTGGAAGCATGGAGA
20261 T G S GCTCCAACTTTGTAAGGGTTATGAAGCTAAAATATAATTGTTAAAATAAAGGTATGAACAAGTGTTCTGGAAGCATGGAGA
20261 IS [AG] TTTAATACATCATTATTCAGAGACTAAAATCCATGGCTCCAACTTTGTAAGGGTTATGAA[AG]CTAAAATATAATTGTTAAAATAAAGGTATGAACAAGTGTTCTGGAAGCATGGAGAAAAA A
20273 I S GCTTCATGGTGTGCCCAGCTGGCAGA
20273 P G S ATGACGTGGCAGACCGATGTGAGAACTGCCY
20273 P A S CGCGCCGAGGTGATGTGAGAACTGCCCY
20273 T G S TACGGGGCAGTTCTCACATCGCTCCCAGCTGGGCACACATGAAGCCA
20273 T A S TACGGGGCAGTTCTCACATCACTCCCAGCTGGGCACACATGAAGCCA

FIGURE 129F

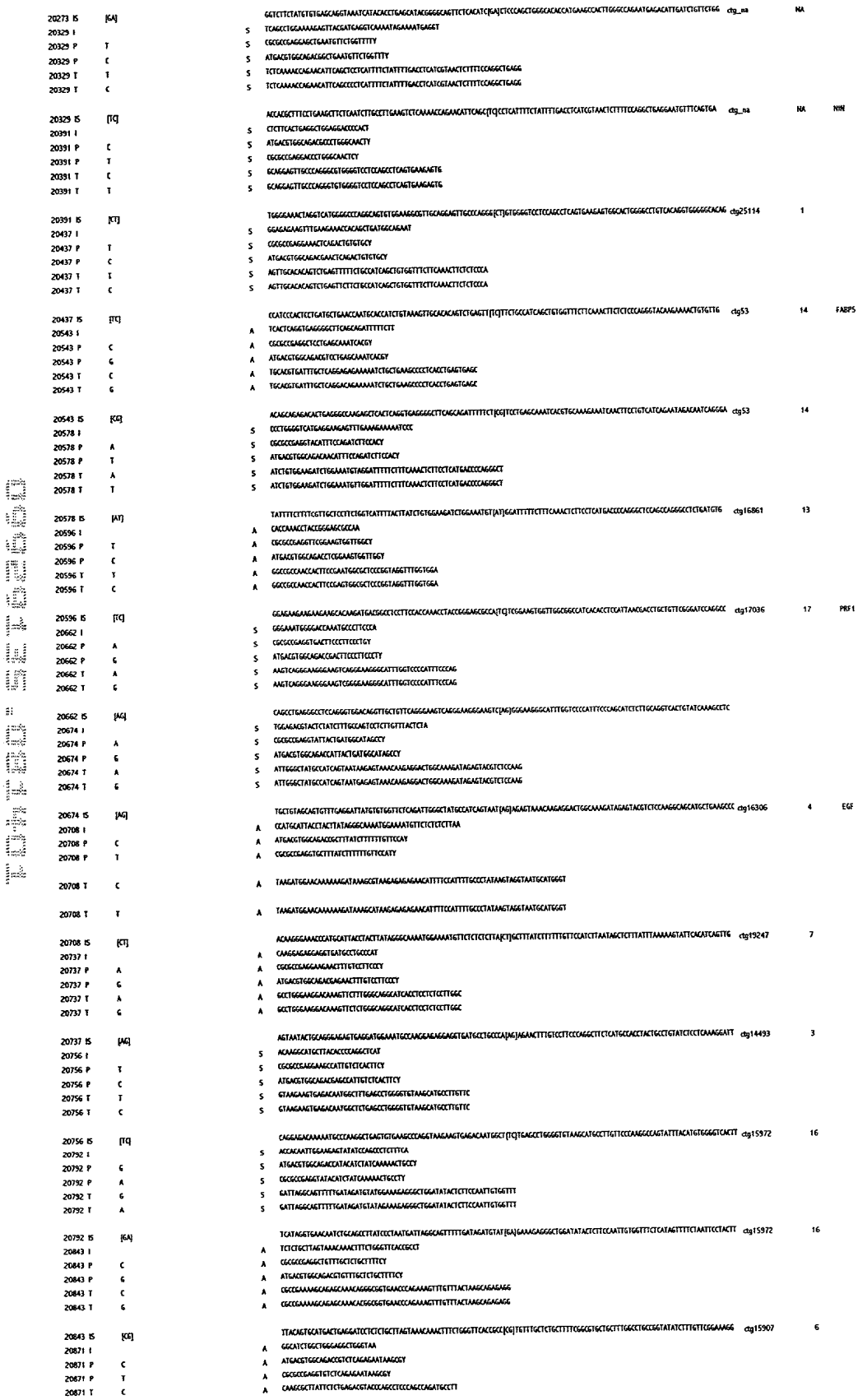

20273 IS [GA] GGTCTTCTATGTGTGAGCAGGTAAATCATACACCTGAGCATACGGGGCAGTTCTCACATC[GA]CTCCCAGCTGGGCACACCATGAAGCCACTTGGGCCAGAATGAGACATTGATCTGTTCTGG ctg_na NA
20329 I S TCAGCCTGGAAAAGAGTTACGATCAGGTCAAAATAGAAAATGAGGT
20329 P T S CGCGCCCAGGAGCTGAATGTTCTGGTTTTY
20329 P C S ATGACGTGGCAGACGGCTGAATGTTCTGGTTTY
20329 T T S TCTCAAAACCAGAACATTCAGCTCCTCATTTTCTATTTTGACCTCATCGTAACTCTTTTCCAGGCTGAGG
20329 T C S TCTCAAAACCAGAACATTCAGCCCCTCATTTTCTATTTTGACCTCATCGTAACTCTTTTCCAGGCTGAGG
20329 IS [TC] ACCACGCTTTCCTGAAGCTTCTCAATCTTGCCTTGAAGTCTCAAAACCAGAACATTCAGC[TC]CCTCATTTTCTATTTTGACCTCATCGTAACTCTTTTCCAGGCTGAGGAATGTTTCAGTGA ctg_na NA NIN
20391 I S CTCTTCACTGAGGCTGGAGGACCCCACT
20391 P C S ATGACGTGGCAGACGCCCTGGGCAACTY
20391 P T S CGCGCCCAGGCACCCTGGGCAACTCY
20391 T C S GCAGGAGTTGCCCAGGGCGTGGGGTCCTCCAGCCTCAGTGAAGAGTG
20391 T T S GCAGGAGTTGCCCAGGGTGTGGGGTCCTCCAGCCTCAGTGAAGAGTG
20391 IS [CT] TGGGGAAACTAGGTCATGGGGCCCAGGCAGTGTGGAAGGGGTTGCAGGAGTTGCCCAGGG[CT]GTGGGGTCCTCCAGCCTCAGTGAAGAGTGGCACTGGGGCCTGTCACAGGTGGGGGCACAG ctg25114 1
20437 I S GGAGAGAAGTTTGAAGAAACCACAGCTGATGGCAGAAT
20437 P T S CGCGCCGAGGAAACTCAGACTGTGTGCY
20437 P C S ATGACGTGGCAGACGAACTCAGACTGTGTGCY
20437 T T S AGTTGCACACAGTCTCGAGTTTTTCTGCCATCAGCTGTGGTTTCTTCAAACTTCTCTCCCA
20437 T C S AGTTGCACACAGTCTCGAGTTCTTCTGCCATCAGCTGTGGTTTCTTCAAACTTCTCTCCCA
20437 IS [TC] CCATCCCACTCCTGATGCTGAACCAATGCACCATCTGTAAAGTTGCAGACAGTCTGAGTT[TC]TTCTGCCATCAGCTGTGGTTTCTTCAAACTTCTCTCCCAGGGTACAAGAAAACTGTGTTG ctg53 14 FABP5
20543 I A TCACTCAGGTGAGGGGCTTCAGCAGATTTTTCTT
20543 P C A CGCGCCGAGGCTCCTGAGCAAATCACGY
20543 P G A ATGACGTGGCAGACGTCCTGAGCAAATCACGY
20543 T C A TGCACGTGATTTGCTCAGGAGAGAAAAATCTGCTGAAGCCCCTCACCTGAGTGAGC
20543 T G A TGCACGTGATTTGCTCAGGACAGAAAAATCTGCTGAAGCCCCTCACCTGAGTGAGC
20543 IS [CG] ACAGCAGAGACACTCAGGGCCAAGAGCTCACTCAGGTGAGGGGCTTCAGCAGATTTTTCT[CG]TCCTGAGCAAATCACGTGCAAAGAAATCAACTTCCTGTCATCAGAATAGACAATCAGGGA ctg53 14
20578 I S CCCTGGGGTCATGAGGAAGAGTTTGAAAGAAAAATCCC
20578 P A S CGCGCCGAGGTACATTTCCAGATCTTCCACY
20578 P T S ATGACGTGGCAGACAACATTTCCAGATCTTCCACY
20578 T A S ATCTGTGGAAGATCTGGAAATGTAGGATTTTTCTTTCAAACTCTTCCTCATGACCCCAGGGCT
20578 T T S ATCTGTGGAAGATCTGGAAATGTTGGATTTTTCTTTCAAACTCTTCCTCATGACCCCAGGGCT
20578 IS [AT] TATTTTCTTTTCGTTGCTCCTTCTGGCTCATTTTACTTATCTGTGGAAGATCTGGAAATGT[AT]GGATTTTTCTTTCAAACTCTTCCTCATGACCCCAGGGCTCCAGCCAGGGCCTCTGATGTG ctg16861 13
20596 I A CACCAAACCTACCGGGAGCGCCAA
20596 P T A CGCGCCGAGGTTCGGAAGTGGTTGGCY
20596 P C A ATGACGTGGCAGACCTCGGAAGTGGTTGGY
20596 T T A GGCCCCCAACCACTTCCCAATGGCGCTCCCGGTAGGTTTGGTGGA
20596 T C A GGCCGCCAACCACTTCCCAGTGGCGCTCCCGGTAGGTTTGGTGGA
20596 IS [TC] GGAGAAGAAGAAGAAGCACAAGATGACGGCCTCCTTCCACCAAACCTACCGGGAGCGCCA[TC]TCGGAAGTGGTTGGCGGCCATCACACCTCCATTAACGACCTGCTGTTCGGGATCCAGGCC ctg17036 17 PRF1
20662 I S GGGAAATGGGGACCAAATGCCCTTCCCA
20662 P A S CGCGCCGAGGTGACTTCCCTTCCCTGY
20662 P G S ATGACGTGGCAGACGGACTTCCCTTCCCTY
20662 T A S AAGTCAGGCAAGGGAAGTCAGGGAAGGGCATTTGGTCCCCATTTCCCAG
20662 T G S AAGTCAGGGAAGGGAAGTCGGGGAAGGGCATTTGGTCCCCATTTCCCAG
20662 IS [AG] CAGCCTGAGGGCCTCCAGGGTGGACAGGTTGCTGTTCAGGGAAGTCAGGGAAGGGAAGTC[AG]GGGAAGGGCATTTGGTCCCCATTTCCCAGCATCTCTTGCAGGTCACTGTATCAAAGCCTC
20674 I S TGGAGAGGTACTCTATCTTTGCCAGTCCTCTCTGTTTACTCTA
20674 P A S CGCGCCGAGGTATTACTGATGGCATAGCCY
20674 P G S ATGACGTGGCAGACCATTACTGATGGCATAGCCY
20674 T A S ATTGGGCTATGCCATCAGTAATAAGAGTAAACAAGAGGACTGGCAAAGATAGAGTACGTCTCCAAG
20674 T G S ATTGGGCTATGCCATCAGTAATGAGAGTAAACAAGAGGACTGGCAAAGATAGAGTACGTCTCCAAG
20674 IS [AG] TGCTGTAGCAGTGTTTGAGGATTATGTGTGGTCTCAGATTGGGCTATGCCATCAGTAAT[AG]AGAGTAAACAAGAGGACTGGCAAAGATAGAGTACGTCTCCAAGGCAGCATGCTGAAGCCC ctg16306 4 EGF
20708 I A CCATGCAATTACCTACTTATAGGGCAAAATGGAAAATGTTCTCTCTCTTAA
20708 P C A ATGACGTGGCAGACGCTTTATCTTTTTGTTCCAY
20708 P T A CGCGCCGAGGTGCTTTATCTTTTTGTTCCATY
20708 T C A TAAGATGGAACAAAAAAGATAAAGCGTAAGAGAGAGAACATTTTCCATTTTGCCCTATAAGTAGGTAATGCATGGGT
20708 T T A TAAGATGGAACAAAAAAGATAAAGCATAAGAGAGAGAACATTTTCCATTTTGCCCTATAAGTAGGTAATGCATGGGT
20708 IS [CT] ACAAGGGAAACCCATGCATTACCTACTTATAGGGCAAAATGGAAAATGTTCTCTCTCTTA[CT]GCTTTATCTTTTTGTTCCATCTTAATAGCTCTTTATTTAAAAAGTATTCACATCAGTTG ctg19247 7
20737 I A CAAGGAGAGCAGGTGATGCCTGCCCAT
20737 P A A CGCGCCGAGGAAGAACTTTGTCCTTCCCY
20737 P G A ATGACGTGGCAGACGAGAACTTTGTCCTTCCCY
20737 T A A GCCTGGGAAGGACAAAGTTCTTCTGGGCAGGCATCACCTCCTCTCCTTGGC
20737 T G A GCCTGGGAAGGACAAAGTTCTCTGGGCAGGCATCACCTCCTCTCCTTGGC
20737 IS [AG] AGTAATACTGCAGGGAGAGTGAGGATGGAAATGCCAAGGAGAGGAGGTGATGCCTGCCA[AG]AGAACTTGTCCTTCCCAGGCTTCTCATGCCACCTACTGCCTGTATCTCCTCAAAGGATT ctg14493 3
20756 I S ACAAGGCATGCTTACACCCCAGGCTCAT
20756 P T S CGCGCCGAGGAAGCCATTGTCTCACTTCY
20756 P C S ATGACGTGGCAGACGAGCCATTGTCTCACTTCY
20756 T T S GTAAGAAGTGAGACAATGGCTTTGAGCCTGGGGTGTAAGCATGCCTTGTTC
20756 T C S GTAAGAAGTGAGACAATGGCTCTGAGCCTGGGGTGTAAGCATGCCTTGTTC
20756 IS [TC] CAGGAGACAAAAATGCCCAAGGCTGAGTGTGAAGCCCAGGTAAGAAGTGAGACAATGGCT[TC]TGAGCCTGGGGTGTAAGCATGCCTTGTTCCCAAGGCCAGTATTTACATGTGGGGTCACTT ctg15972 16
20792 I S ACCACAATTGGAAGAGTATATCCAGCCCTCTTTCA
20792 P G S ATGACGTGGCAGACCATACATCTATCAAAACTGCCY
20792 P A S CGCGCCGAGGTATACATCTATCAAAACTGCCTY
20792 T G S GATTAGGCAGTTTTTGATAGATGTATGGAAAGAGGGCTGGATATACTCTTCCAATTGTGGTTT
20792 T A S GATTAGGCAGTTTTTGATAGATGTATAGAAAGAGGGCTGGATATACTCTTCCAATTGTGGTTT
20792 IS [GA] TCATAGGTGAACAATCTGCAGCCTTATCCCTAATGATTAGGCAGTTTTTGATAGATGTAT[GA]GAAAGAGGGCTGGATATACTCTTCCAATTGTGGTTTCTCATAGTTTTCTAATTCCTACTT ctg15972 16
20843 I A TCTCTGCTTAGTAAACAAACTTTCTGGGTTCACCGCCT
20843 P C A CGCGCCCAGGCTGTTTGCTCTGCTTTTCY
20843 P G A ATGACGTGGCAGACGTGTTTGCTCTGCTTTTCY
20843 T C A CGCCGAAAAGCAGAGCAAACAGGGCGGTGAACCCAGAAAGTTTGTTTACTAAGCAGAGAGG
20843 T G A CGCCGAAAAGCAGAGCAAACACGGCGGTGAACCCAGAAAGTTTGTTTACTAAGCAGAGAGG
20843 IS [CG] TTACAGTGCATGACTGAGGATCCTCTCTGCTTAGTAAACAAACTTTCTGGGTTCACCGCC[CG]TGTTTGCTCTGCTTTTCGGCGTGCTGCTTTGGCCTGCCGGTATATCTTTGTTCGGAAAGG ctg15907 6
20871 I A GGCATCTGGCTGGGAGGCTGGGTAA
20871 P C A ATGACGTGGCAGACGGTCTCAGAGAATAAGCGY
20871 P T A CGCGCCGAGGTGTCTCAGAGAATAAGCGY
20871 T C A CAAGCGCTTATTCTCTGAGACGTACCCAGCCTCCCAGCCAGATGCCTT

FIGURE 129F

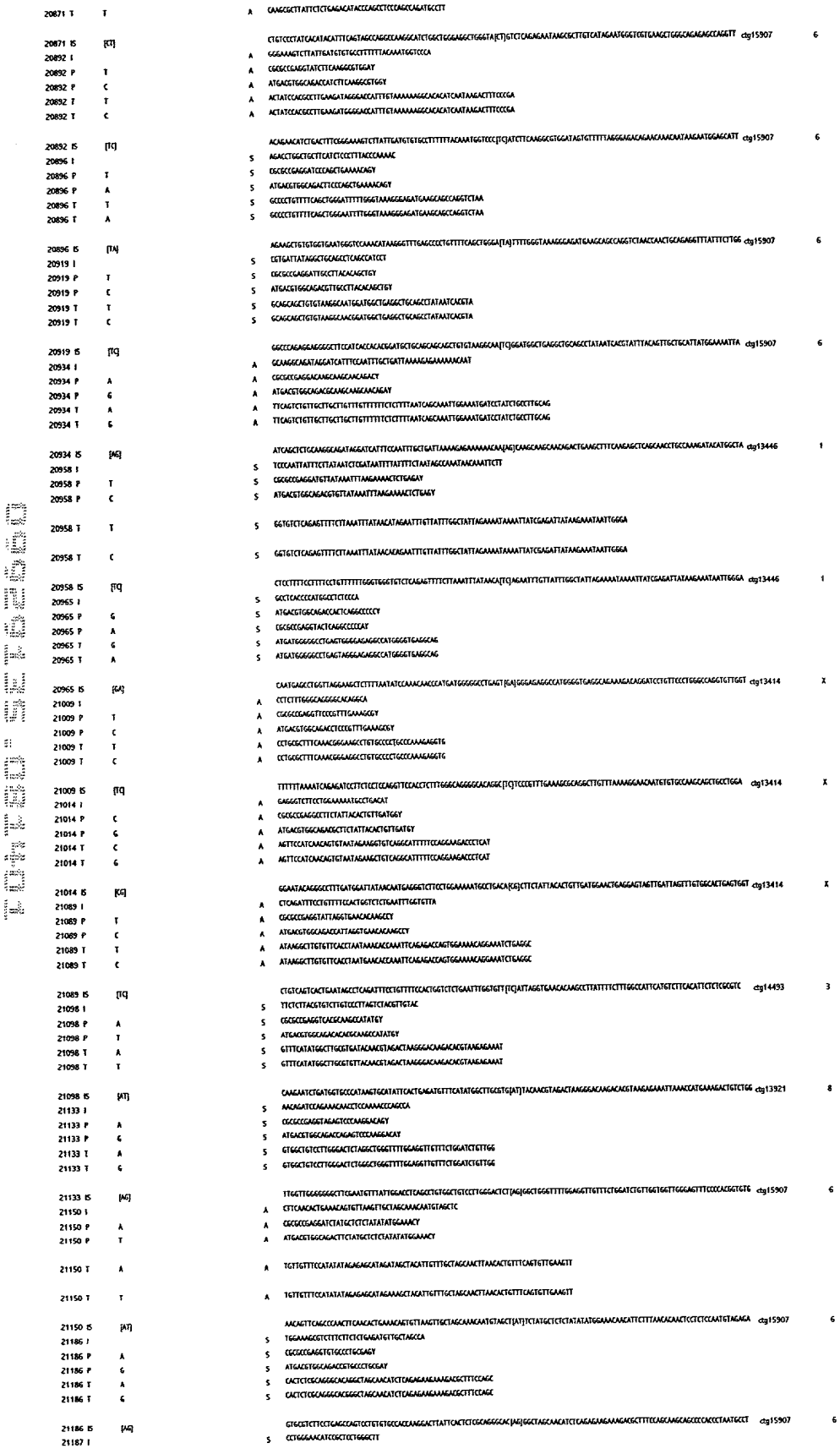

20871 T T A CAAGCGCTTATTCTCTGAGACATACCCAGCCTCCCAGCCAGATGCCTT
20871 IS [CT] CTGTCCCTATCACATACATTTCAGTAGCCAGGCCAAGGCATCTGGCTGGGAGGCTGGGTA[CT]GTCTCAGAGAATAAGCGCTTGTCATAGAATGGGTCGTGAAGCTGGCCAGAGAGCCAGGTT ctg15907 6
20892 I A GGGAAAGTCTTATTGATGTGTGCCTTTTTTACAAATGGTCCCA
20892 P T A CGCGCCGAGGTATCTTCAAGGGGTGGAY
20892 P C A ATGACGTGGCAGACCATCTTCAAGGCGTGGY
20892 T T A ACTATCCAGCCTTGAAGATAGGGACCATTTGTAAAAAAGGCACACATCAATAAGACTTTCCCGA
20892 T C A ACTATCCACGCCTTGAAGATGGGGACCATTTGTAAAAAAGGCACACATCAATAAGACTTTCCCGA
20892 IS [TC] ACAGAACATCTGACTTTCGGGAAAGTCTTATTTGATGTGTGCTTTTTTACAAATGGTCCC[TC]ATCTTCAAGGCGTGGATAGTGTTTTTAGGGAGACAGAACAAACAATAAGAATGGAGCATT ctg15907 6
20896 I S AGACCTGGCTGCTTCATCTCCCTTTACCCAAAAC
20896 P T S CGCGCCGAGGATCCCAGCTGAAAACAGY
20896 P A S ATGACGTGGCAGACTTCCCAGCTGAAAACAGY
20896 T T S GCCCCTGTTTTCAGCTGGGATTTTTGGGTAAAGGGAGATGAAGCAGCCAGGTCTAA
20896 T A S GCCCCTGTTTTCAGCTGGGAATTTTGGGTAAAGGGAGATGAAGCAGCCAGGTCTAA
20896 IS [TA] AGAAGCTGTGTGGTGAATGGGTCCAAACATAAGGGTTTGAGCCCCTGTTTTCAGCTGGGA[TA]TTTTGGGTAAAGGGAGATGAAGCAGCCAGGTCTAACCAACTGCAGAGGTTTATTTCTTGG ctg15907 6
20919 I S CGTGATTATAGGCTGCAGCCTCAGCCATCCT
20919 P T S CGCGCCCAGGATTGCCTTACACAGCTGY
20919 P C S ATGACGTGGCAGACGTTGCCTTACACAGCTGY
20919 T T S GCAGCAGCTGTGTAAGGCAATGGATGGCTGAGGCTGCAGCCTATAATCACGTA
20919 T C S GCAGCAGCTGTGTAAGGCAACGGATGGCTGAGGCTGCAGCCTATAATCACGTA
20919 IS [TC] GGCCCAGAGGAGGGGCTTCCATCACCACACGGATGCTGCAGCAGCAGCTGTGTAAGGCAA[TC]GGATGGCTGAGGCTGCAGCCTATAATCACGTATTTACAGTTGCTGCATTATGGAAAATTA ctg15907 6
20934 I A GCAAGGCAGATAGGATCATTTCCAATTTGCTGATTAAAAGAGAAAAAACAAT
20934 P A A CGCGCCGAGGACAAGCAAGCAACAGACT
20934 P G A ATGACGTGGCAGACGCAAGCAAGCAACAGAY
20934 T A A TYCAGTCTGTTGCTTGCTTGTTTGTTTTTCTCTCTTTTAATCAGCAAATTGGAAATGATCCTATCTGCCTTGCAG
20934 T G A TTCAGTCTGTTGCTTGCTTGTTTTTCTCTCTTTAATCAGCAAATTGGAAATGATCCTATCTGCCTTGCAG
20934 IS [AG] ATCAGCTCTGCAAGGCAGATAGGATCATTTCCAATTTGCTGATTAAAAGAGAAAAAACAA[AG]CAAGCAAGCAAGACGACTGAAGCTTTCAAGAGCTCAGCAACCTGCCAAAGCATACATGGCTA ctg13446 1
20958 I S TCCCAATTATTTCTTATAATCTCGATAATTTTATTTTCTAATAGCCAAATAACAAATTCTT
20958 P T S CGCGCCGAGGATGTTATAAATTTAAGAAAACTCTGAGAY
20958 P C S ATGACGTGGCAGACGTGTTATAAATTTAAGAAAACTCTGAGY
20958 T T S GGTGTCTCAGAGTTTTCTTAAATTTATAACATAGAATTTGTTATTTGGCTATTAGAAAATAAAATTATCGAGATTATAAGAAATAATTGGGA
20958 T C S GGTGTCTCAGAGTTTTCTTAAATTTATAACACAGAATTTGTTATTTGGCTATTACAAAATAAAATTATCGAGATTATAAGAAATAATTGGGA
20958 IS [TC] CTCCTTTTCCTTTTCCTGTTTTTTGGGTGGGTGTCTCAGAGTTTTCTTAAATTTATAACA[TC]AGAATTTGTTATTTGGCTATTAGAAAATAAAATTATCGAGATTATAAGAAATAATTGGGA ctg13446 1
20965 I S GCCTCACCCCATGGCCTCTCCCA
20965 P G S ATGACGTGGCAGACCACTCAGGCCCCCY
20965 P A S CGCGCCGAGGTACTCAGGCCCCCAY
20965 T G S ATGATGGGGGCCTGAGTGGGGAGAGGCCATGGGGTGAGGCAG
20965 T A S ATGATGGGGGCCTGAGTAGGGAGAGGCCATGGGGTGAGGCAG
20965 IS [GA] CAATGAGCCTGGTTAGGAAGCTCTTTTAATATCCAAACAACCCATGATGGGGGCTGAGT[GA]GGGAGAGGCCATGGGGTGAGGCAGAAAGACAGGATCCTGTTCCCTGGGCCAGGTGTTGGT ctg13414 X
21009 I A CCTCTTTGGGCAGGGGCACAGGCA
21009 P T A CGGGCCGAGGTTCCCGTTTGAAAGGGY
21009 P C A ATGACGTGGCAGACCTCCCGTTTGAAAGGGY
21009 T T A CCTGCGCTTTCAAACGGCAAGCCTGTGCCCCTGCCCAAAGAGGTG
21009 T C A CCTGGGCTTTCAAACGGCAAGCCTGTGCCCCTGCCCAAAGAGGTG
21009 IS [TC] TTTTTTAAAATCAGAGATCCTTCTCCTCCAGGTTCCACCTCTTTGGGCAGGGGCACAGGC[TC]TCCCGTTTGAAAGGGCAGGCTTGTTTAAAAGGAACAATGTGTGCCAGCAGCTGCCTGGA ctg13414 X
21014 I A GAGGGTCTTCCTGGAAAAATGCCTGACAT
21014 P C A CGCGCCGAGGGCTTCTATTACACTGTTGATGGY
21014 P G A ATGACGTGGCAGACGCTCTATTACACTGTTGATGY
21014 T C A AGTTCCATCAACAGTGTAATAGAAGGTGTCAGGCATTTTTCCAGGAAGACCCTCAT
21014 T G A AGTTCCATCAACAGTGTAATAGAAGCTGTCAGGCATTTTTCCAGGAAGACCCTCAT
21014 IS [CG] GCAATACAGGGCCTTTGATGGATTATAACAATGAGGGTCTTGCTGGAAAAATGGCTGACA[CG]CTTCTATTACACTGTTGATGGAACTGAGGAGTAGTTGATTAGTTTGTGGCACTGAGTGGT ctg13414 X
21089 I A CTCAGATTTCCTGTTTTCCACTGGTCTCTGAATTTGGGTGTTA
21089 P T A CGCGCCGAGGTATTAGGTGAACACAAGCCY
21089 P C A ATGACGTGGCAGACATTAGGTGAACACAAGCCY
21089 T T A ATAAGGCTTGTGTTCACCTAATAAACACCAAATTCAGAGACCAGTGGAAAACAGGAAATCTGAGGC
21089 T C A ATAAGGCTTGTGTTCACCTAATGAACACCAAATTCAGAGACCAGTGGAAAACAGGAAATCTGAGGC
21089 IS [TC] CTGTCAGTCACTGAATAGCCTCAGATTTCCTGTTTTCCACTGGTCTCTGAATTTGGTGTT[TC]ATTAGGTGAACACAAGCCTTATTTTCTTTGGCCATTCATGTCTTCACATTCTCTCGGGTC ctg14493 3
21098 I S TTCTCTTACGTGTCTTGTCCCTTAGTCTACGTTGTAC
21098 P A S CGCGCCGAGGTCACGCAAGCCATATGY
21098 P T S ATGACGTGGCAGACACACGCAAGCCATATGY
21098 T A S GTTTCATATGGCTTGCGTGATACAACGTAGACTAAGGGACAAGACACGTAAGAGAAAT
21098 T T S GTTTCATATGGCTTGCGTGTTACAACGTAGACTAAGGGACAAGACACGTAAGAGAAAT
21098 IS [AT] CAAGAATCTGATGGTGCCCATAAGTGCATATTCACTGAGATGTTTCATATGGCTTGCGTG[AT]TACAACGTAGACTAAGGGACAAGACACGTAAGAGAAATTAAACCATGAAAGACTGTCTGG ctg13921 8
21133 I S AACAGATCCAGAAACAACCTCCAAAACCCAGCCA
21133 P A S CGCGCCCAGGTAGAGTCCCAAGGACAGY
21133 P G S ATGACGTGGCAGACAGAGTCCCAAGGACAT
21133 T A S GTGGCTGTCCTTGGGACTCTAGGCTGGGTTTTGGAGGTTGTTTCTGGATCTGTTGG
21133 T G S GTGGCTGTCCTTGGGACTCTGGGCTGGGTTTTGGAGGTTGTTTCTGGATCTGTTGG
21133 IS [AG] TTGGTTGGGGGGGCTTCGAATGTTTATTGGACCTCAGCCTGTGGCTGTCCTTGGGACTCT[AG]GGCTGGGTTTTGGAGGTTGTTTCTGGATCTGTTGGTTGGCAGTTTCCCCACGGTGTG ctg15907 6
21150 I A CTTCAACACTGAAACAGTGTTAAGTTGCTAGCAAACAATGTAGCTC
21150 P A A CGCGCCGAGGATCTATGCTCTCTATATATGGAAACY
21150 P T A ATGACGTGGCAGACTTCTATGCTCTCTATATATGGAAACY
21150 T A R TGTTGTTTCCATATATAGAGAGCATAGATAGCTACATTGTTTGCTAGCAACTTAACACTGTTTCAGTGTTGAAGTT
21150 T T A TGTTGTTTCCATATATAGAGAGCATAGAAAGCTACATTGTTTGCTAGCAACTTAACACTGTTTCAGTGTTGAAGTT
21150 IS [AT] AACAGTTCAGCCCAACTTCAACACTGAAACAGTGTTAAGTTGCTAGCAAACAATGTAGCT[AT]TCTATGCTCTCTATATATGGAAACAACATTCTTTAACACAACTCCTCTCCAATGTAGAGA ctg15907 6
21186 I S TGGAAAGCGTCTTTCTTCTCTGAGATGTTGCTAGCCA
21186 P A S CGCGCCGAGGTGTGCCCTGCGAGY
21186 P G S ATGACGTGGCAGACCCTGCCCTGCGAY
21186 T A S CACTCTCGCAGGGCACAGGCTAGCAACATCTCAGAGAAGAAAGACGCTTTCCAGC
21186 T G S CACTCTCGCAGGGCACGGGCTAGCAACATCTCAGAGAAGAAAGACGCTTTCCAGC
21186 IS [AG] GTGCGTCTTCCTGAGCCAGTCCTGTGTGCCACCAAGGACTTATTCACTCTCGCAGGGCAC[AG]GGCTAGCAACATCTCAGAGAAGAAAGACGCTTTCCAGCAAGCAGCCCCACCCTAATGCCT ctg15907 6
21187 I S CCTGGGAACATCCGCTCCTGGGCTT

FIGURE 129F

21187 P	C	S	ATGACGTGGCAGACGGGGTCACAGACCTGY		
21187 P	T	S	CGCGCCGAGGAGGGTCACAGACCTGY		
21187 T	C	S	GGATCAGGTCTGTGACCCCAGCCCAGGAGCGGATGTTCCCAGGCC		
21187 T	T	S	GGATCAGGTCTGTGACCCTAGCCCAGGAGCGGATGTTCCCAGGCC		
21187 IS	[CT]		CACCTGCTCATGGGCCTGTGGAAGGACACAGAACCTGGCTGGGGATCAGGTCTGTGACCC[CT]AGCCCAGGAGCGGATGTTCCCAGGCCTCCTGAGCTGCTCACATCCTGGCTCCCATCTCCC	ctg15907	6
21257 I		A	TCCTCCATTTGGCTGTCTGTAACCTCCCCAT		
21257 P	C	A	CGCGCCGAGGCGGCAGACTCAGTATATTCY		
21257 P	G	A	ATGACGTGGCAGACGGGCAGACTCAGTATATTCY		
21257 T	C	A	TGGAGAATATACTGAGTCTGCCGTGGGGAGGTTACAGACAGCCAAATGGAGGATG		
21257 T	G	A	TGGAGAATATACTGAGTCTGCCCTGGGGAGGTTACAGACAGCCAAATGGAGGATG		
21257 IS	[CG]		GTCCGTGATTCTATTCAGCTGCTATGGCCATCCTCCATTTGGCTGTCTGTAACCTCCCCA[CG]GGCAGACTCAGTATATTCTCCACCTTGCAGAATTTAGACATTGTCGGTGACATCCTGGGC	ctg15907	6
21444 I		S	CAGCAATAAAAGGAAGGGCAGGCCGGGA		
21444 P	G	S	ATGACGTGGCAGACCGCGGTGGCTCAY		
21444 P	A	S	CGCGCCGAGGTGCGGTGGCTCATY		
21444 T	G	S	AGGCATGAGCCACCGCGCCCGGCCTGCCCTTCCTTTTATTGCTGGG		
21444 T	A	S	AGGCATGAGCCACCGCACCCGGCCTGCCCTTCCTTTTATTGCTGGG		
21444 IS	[GA]		TCTCGTGATCCACCTGCCTCGGCCTCCCAAAGTGCTGGGATTATAGGCATGAGCCACCGC[GA]CCCGGCCTGCCCTTCCTTTTATTGCTGGGCAGGGGCGGCATGAGGGGTAAGTACTGGGGA	ctg14747	2
21503 I		S	CGCCCAGGCTGGAGTGCAGTGGC		
21503 P	C	S	ATGACGTGGCAGACGGCAATCTCCGCTCAY		
21503 P	A	S	CGCGCCGAGGTGCAATCTCCGCTCAY		
21503 T	C	S	GCAGTGAGCGGAGATTGCCCCACTGCACTCCAGCCTGGGCGAA		
21503 T	A	S	GCAGTGAGCGGAGATTGCACCACTGCACTCCAGCCTGGGCGAA		
21503 IS	[CA]		GGCTGAAGCAAGAGAATCGCTTCAAATCGGAAGGCGGAGGTTGCAGTGAGCGGAGATTGC[CA]CCACTGCACTCCAGCCTGGGCGAAAGAGTGAAACTCCGTCTCAAAACAAAAAAACAAAAA	ctg17042	11
21553 I		S	TGCCGCACTGACAGGCTGCCCA		
21553 P	G	S	ATGACGTGGCAGACCGTTCACCTGGAGATCY		
21553 P	A	S	CGCGCCGAGGTGTTCACCTGGAGATCGY		
21553 T	G	S	CCAACGATCTCCAGGTGAACGGGGCAGCCTGTCAGTGCGGCAGA		
21553 T	A	S	CCAACGATCTCCAGGTGAACAGGGCAGCCTGTCAGTGCGGCAGA		
21553 IS	[GA]		CGTAAAGAGGCGGTGAGCCCAGGCAGCAGAGCTCCTGGCCCCAACGATCTCCAGGTGAAC[GA]GGGCAGCCTGTCAGTGCGGCAGAGCCATGGGGCTAACTCTATGTCCCTGGCATTGCTGTT	ctg16920	19
21556 I		S	CCTCATGCTTCAGGAGGCTGGGAAGTCCT		
21556 P	T	S	CGCGCCGAGGAAGATCAAGGCACCAGY		
21556 P	C	S	ATGACGTGGCAGACGAGATCAAGGCACCAGY		
21556 T	T	S	CCTGCTGGTGCCTTGATCTTGGACTTCCCAGCCTCCTGAAGCATGAGGAC		
21556 T	C	S	CCTGCTGGTGCCTTGATCTCGGACTTCCCAGCCTCCTGAAGCATGAGGAC		
21556 IS	[TC]		TTCTCCCTTCCAGAAGATGCAGCCCTCCCCAGACACCTGAACCTGCTGGTGCCTTGATCT[TC]GGACTTCCCAGCCTCCTGAAGCATGAGGACAGAAATTTCCGTGCTGTATACATTACCCAG	ctg15907	6
21586 I		A	GTCTGGGAGAAGAGCTGTTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGAAACT		
21586 P	A	A	CGCGCCGAGGAGAGTCTTGCTCTATCACGY		
21586 P	G	A	ATGACGTGGCAGACGGAGTCTTGCTCTATCACY		
21586 T	A	A	CCCGCGTGATAGAGCAAGACTCTGTTTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGAACAGCTCTTCTCCCAGACAC		
21586 T	G	A	CCCGCGTGATAGAGCAAGACTCCGTTTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGAACAGCTCTTCTCCCAGACAC		
21586 IS	[AG]		AAGGAGTGTCTGGGAGAAGAGCTGTTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGAAAC[AG]GAGTCTTGCTCTATCACGCGGGCTGGAGTGCAATGGCATGATCTCGGCTCACTGCAACCT	ctg17036	17
21593 I		S	CTCTCTCTGTCACCCAGGCTGGAGTGCT		
21593 P	T	S	CGCGCCGAGGAGTGGTGCAATCTCAGY		
21593 P	C	S	ATGACGTGGCAGACGGTGGTGCAATCTCAGY		
21593 T	T	S	CGAGCTGAGATTGCACCACTGCACTCCAGCCTGGGTGACAGAGAGAGAC		
21593 T	C	S	CGAGCTGAGATTGCACCACCGCACTCCAGCCTGGGTGACAGAGAGAGAC		
21593 IS	[TC]		AGGCGGGAGGATTGCTTGAGCCCGGGAGGCAGAGGTTGCAGCGAGCTGAGATTGCACCAC[TC]GCACTCCAGCCTGGGTGACAGAGAGAGACTCCATCTCAAAAAACAAACAACAAAACCCAT	ctg17036	17
21606 I		A	GTTGATCCGAAATAAGCCCAGGGTCAGGGAA		
21606 P	C	A	ATGACGTGGCAGACCGACTTCCCAGCTCCY		
21606 P	T	A	CGCGCCGAGGTGACTTCCCAGCTCCY		
21606 T	C	A	GACGGGAGCTGGGAAGTCGTCCCTGACCCTGGGCTTATTTCGGATCAACGA		
21606 T	T	A	GACGGGAGCTGGGAAGTCATCCCTGACCCTGGGCTTATTTCGGATCAACGA		
21606 IS	[CT]		ATCGATGATGATCTCTCCTTCGGCAGACTCGTTGATCCGAAATAAGCCCAGGGTCAGGGA[CT]GACTTCCCAGCTCCCGTCCGCCCCACGATGCCGACCTGCAGGACAGAAGGGCCCAGGTGT	ctg15907	6
21675 I		A	GGTTTCCTTCACTATAACATGGCAAATGATAATAGTACCAACTGA		
21675 P	T	A	CGCGCCGAGGTAGCTGGGCTTGGTGY		
21675 P	C	A	ATGACGTGGCAGACCAGCTGGGCTTGGTY		
21675 T	T	A	GAGCCACCAAGCCCAGCTACAGTTGGTACTATTATCATTTGCCATGTTATAGTGAAGGAAACCAA		
21675 T	C	A	GAGCCACCAAGCCCAGCTGCAGTTGGTACTATTATCATTTGCCATGTTATAGTGAAGGAAACCAA		
21675 IS	[TC]		CATCTCTTTGTAATTTGGTTTCCTTCACTATAACATGGCAAATGATAATAGTACCAACTG[TC]AGCTGGGCTTGGTGGCTCATGCCTGTAATCCCAGCACTTTGGAAGGCCGAGGCAGAAGAA	ctg13740	5
21689 I		S	GGTGCTGGGATTACAGGCTTGAGCCACCT		
21689 P	C	S	ATGACGTGGCAGACGCATCCAGCCCAGAY		
21689 P	T	S	CGCGCCGAGGACATCCAGCCCAGATCY		
21689 T	C	S	CTCAGATCTGGGCTGGATGCGGTGGCTCAAGCCTGTAATCCCAGCACCTT		
21689 T	T	S	CTCAGATCTGGGCTGGATGTGGTGGCTCAAGCCTGTAATCCCAGCACCTT		
21689 IS	[CT]		AAAAGAGCACAGGCTTGGGAGTTCAAATACTGGGTGCAAATCTCAGATCTGGGCTGGATG[CT]GGTGGCTCAAGCCTGTAATCCCAGCACCTTGGGAGGCTGAGCCAGGGGGATCACTTGAAG	ctg15330	9
21763 I		S	CAATATGTGCTCCTCCATGGGAGGCAAAAATTCTTCTCA		
21763 P	A	S	CGCGCCGAGGTGCCTCAACCTTCCGY		
21763 P	G	S	ATGACGTGGCAGACCGCCTCAACCTTCCY		
21763 T	A	S	CCAGCGGAAGGTTGAGGCAGAGAAGAATTTTTGCCTCCCATGGAGGAGCACATATTGGC		
21763 T	G	S	CCAGCGGAAGGTTGAGGCGGAGAAGAATTTTTGCCTCCCATGGAGGAGCACATATTGGC		
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21774 P	A	A	CGCGCCGAGGAGTATAGGGCCTGTTGGY		
21774 P	C	A	ATGACGTGGCAGACCGTATAGGGCCTGTTGY		
21774 T	A	A	ACCCCCAACAGGCCCTATACTTGCCAGGGTTTAGGCTAAAGGGTTTACATCTAT		
21774 T	C	A	ACCCCCAACAGGCCCTATACGTGCCAGGGTTTAGGCTAAAGGGTTTACATCTAT		
21774 IS	[AC]		ATCATGTTTTCAGTTATACAGTAGTTAATAGATGTAAACCCTTTAGCCTAAACCCTGGCA[AC]GTATAGGGCCTGTTGGGGGTCCTCTATCTGAACAAGGAGGGTCCTTGTGGAACACTGACC		
21791 I		A	CGGCCCCCTAGCCCCAGCCC		
21791 P	T	A	CGCGCCGAGGTGCAGCGCTGCGY		
21791 P	G	A	ATGACGTGGCAGACGGCAGCGCTGCY		
21791 T	T	A	CTTCCGCAGCGCTGCAGGCTGGGGCTAGGGGGCCGAG		
21791 T	G	A	CTTCCGCAGCGCTGCCGGCTGGGGCTAGGGGGCCGAG		
21791 IS	[TG]		GGGACCCCATGCTCCCTCTGGGTCCTCCCTATACTGCCCCTCGGCCCCCTAGCCCCAGCC[TG]GCAGCGCTGCGGAAGCAGATCAGTAATAAAAATGCTCCGGATGTGCAGGAGATAAGGGCG	ctg53	14

FIGURE 129F

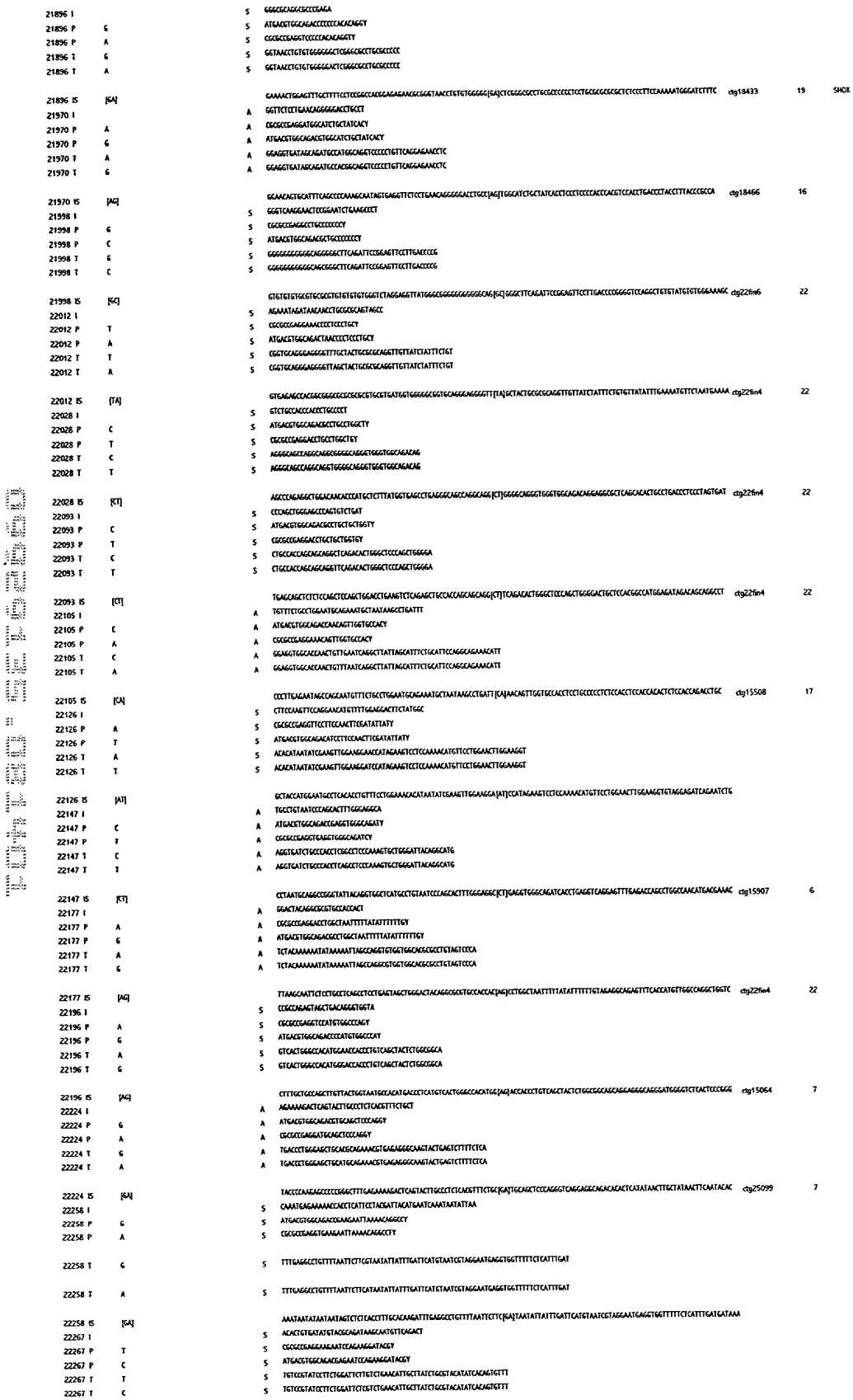
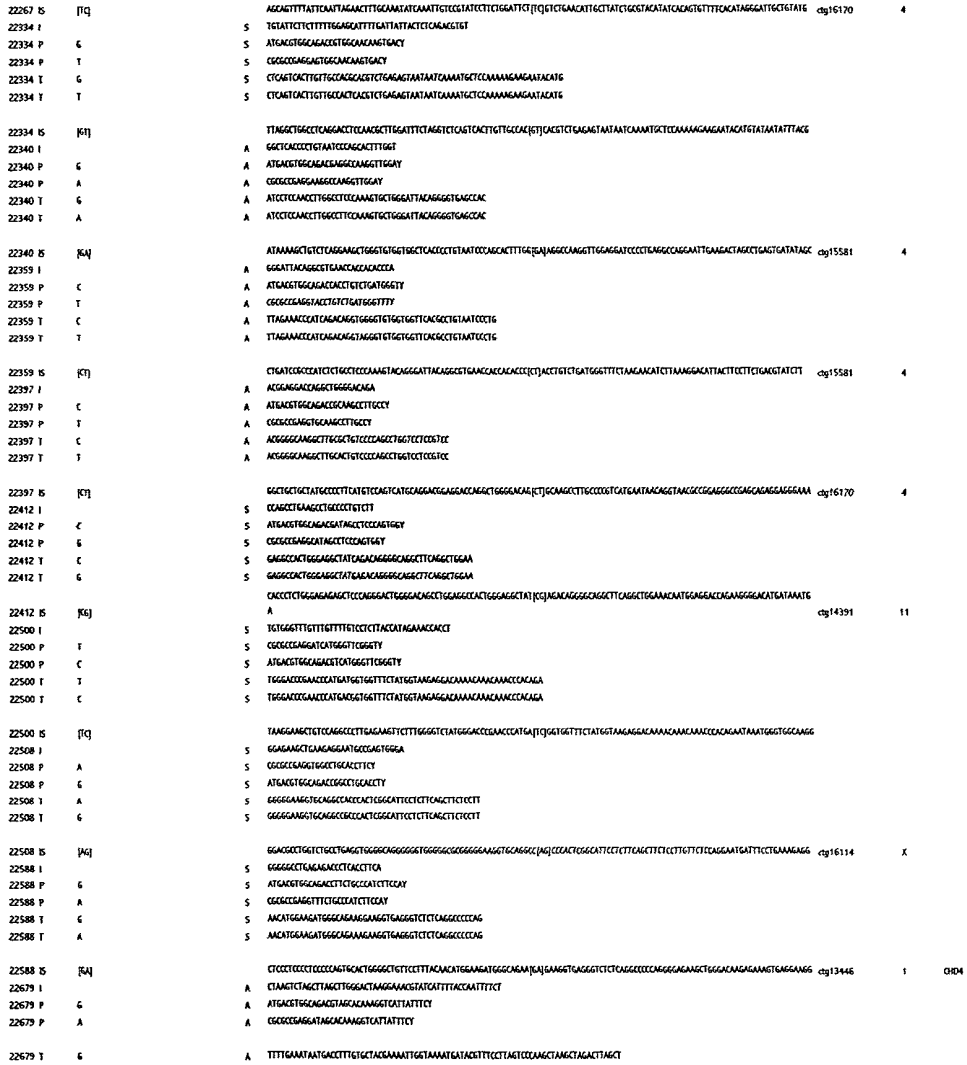
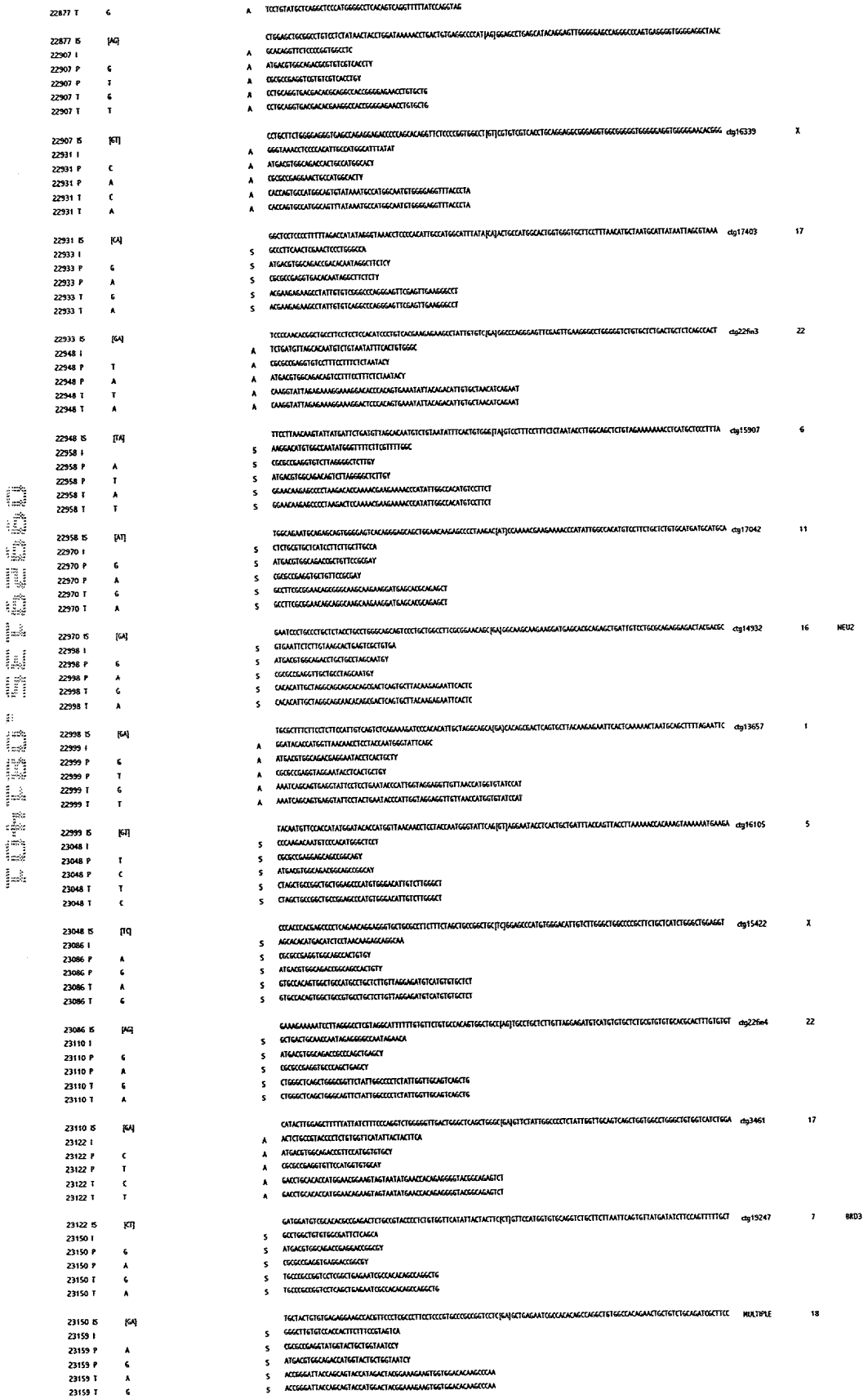

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21896 T A S GGTAACCTGTGTGGGGGACTCGGGCGCCTGCGCCCCC
21896 IS [GA] GAAAACTGGAGTTTGCTTTTCCTCCGGCCACGCAGACAGAACGCGGGTAACCTGTGTGGGGG[GA]CTCGGGCGCCTGCGCCCCCCTCCTGCGCGCGCGCTCTCCCTTCCAAAAATGGGATCTTTC ctg18433 19 SHOX
21970 1 A GGTTCTCCTGAACAGGGGGGACCTGCCT
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21970 P G A ATGACGTGGCAGACGTGGCATCTGCTATCACY
21970 T A A GGAGGTGATAGCAGATGCCATGGCAGGTCCCCCTGTTCAGGAGAACCTC
21970 T G A GGAGGTGATAGCAGATGCCACGGCAGGTCCCCCTGTTCAGGAGAACCTC
21970 IS [AG] GGAACAGTGCATTTCAGCCCCAAAGCAATAGTGAGGTTCTCCTGAACAGGGGGACCTGCC[AG]TGGCATCTGCTATCACCTCCCTCCCCACCCACGTCCACCTGACCCTACCTTTACCCGCCA ctg18466 16
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21998 P G S CGCGCCGAGGCCTGCCCCCCCY
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21998 T G S GGGGGGGGGGGCAGGGGGCTTCAGATTCCGGAGTTCCTTGACCCCG
21998 T C S GGGGGGGGGGGCAGCGGGCTTCAGATTCCGGAGTTCCTTGACCCCG
21998 IS [GC] GTGTGTGTGCGTGCGCGTGTGTGTGTGGGTCTAGGAGGTTATGGGCGGGGGGGGGGGCAG[GC]GGGCTTCAGATTCCGGAGTTCCTTGACCCCGGGGTCCAGGCTGTGTATGTGTGGGAAAGC ctg22fin6 22
22012 1 S AGAATAGATAACAACCTGCGCGCAGTAGCC
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22012 P A S ATGACGTGGCAGACGCCTGCCTGGCTY
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22012 T A S CGGTGCAGGGAGGGGTTAGCTACTGCGCGCAGGTTGTTATCTATTTCTGT
22012 IS [TA] GTGAGAGCCACGGCGGGCGCGCGCGCGTGCGTGATGGTGGGGGCGGTGCAGGGAGGGGTT[TA]GCTACTGCGCGCAGGTTGTTATCTATTTCTGTTATATTTGAAAATGTTCTAATGAAAA ctg22fin4 22
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22028 P C S ATGACGTGGCAGACGCCTGCCTGGCTY
22028 P T S CGCGCCGAGGACCTGCCTGGCTGY
22028 T C S ACGGCAGCCAGGCAGGCGGGCAGGGTGGGCTGGCAGACAG
22028 T T S AGGGCAGCCAGGCAGGTGGGGCAGGGTGGGCTGGCAGACAG
22028 IS [CT] AGCCCAGAGGCTGGACAACACCCATGCTCTTTATGGTGAGCCTGAGGGCAGCCAGGCAGG[CT]GGGGCAGGGTGGGTGGCAGACAGAGAGGCGCTCAGCAACACTGCCTGACCCTCCCTAGTGAT ctg22fin4 22
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22093 P C S ATGACGTGGCAGACGCCTGCTGCTGGTY
22093 P T S CGCGCCGAGGACCTGCTGCTGGTGY
22093 T C S CTGCCACCAGCAGCAGGCTCAGACACTGGGCTCCCAGCTGGGGA
22093 T T S CTGCCACCAGCAGCAGGTTCAGACACTGGGCTCCCAGCTGGGGA
22093 IS [CT] TGAGCAGCTCTCTCCAGCTCCAGCTGGACCTGAAGTCTCAGAGCTGCCACCAGCAGCAGG[CT]TCAGACACTGGGCTCCCAGCTGGGGACTGCTCCACGGCCATGGAGATAGACAGCAGGCCT ctg22fin4 22
22105 1 A TGTTTCTGCCTGGAATGCAGAAATGCTAATAAGCCTGATTT
22105 P C A ATGACGTGGCAGACCAACAGTTGGTGCCACY
22105 P A A CGCGCCGAGGAAACAGTTGGTGCCACY
22105 T C A GGAGGTGGCACCAACTGTTGAATCAGGCTTATTAGCATTTCTGCATTCCAGGCAGAAACATT
22105 T A A GGAGGTGGCACCAACTGTTTAATCAGGCTTATTAGCATTTCTGCATTCCAGGCAGAAACATT
22105 IS [CA] CCCTTGAGAATAGCCAGCAATGTTCTGCCTGGAATGCAGAAATGCTAATAAGCCTGATT[CA]AACAGTTGGTGCCACCTCCTGCCCCCTCTCCACCTCCACCACACTCTCCACCAGACCTGC ctg15508 17
22126 1 S CTTCCAAGTTCCAGGAACATGTTTTGGAGGACTTCTATGGC
22126 P A S CGCGCCGAGGTTCCTTCCAACTTCGATATTATY
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22126 T A S ACACATAATATCGAAGTTGGAGGAAGCATAGAAGTCCTCCAAAACATGTCCTGGAACTTGGAAGGT
22126 T T S ACACATAATATCGAAGTTGGAAGGATCCATAGAAGTCCTCCAAAACATGTTCCTGGAACTTGGAAGGT
22126 IS [AT] GCTACCATGGAATGCCTCACACCTGTTTCCTGGAAACACATAATATCGAAGTTGGAAGGA[AT]CCATAGAAGTCCTCCAAAACATGTTCCTGGAACTTGGAAGGTGTAGGAGATCAGAATCTG
22147 1 A TGCCTGTAATCCCAGCACTTTGGGAGGCA
22147 P C A ATGACGTGGCAGACCGAGGTGGGCAGATY
22147 P T A CGCGCCGAGGTCAGGTGGGCAGATCY
22147 T C A AGGTGATCTGCCCACCTCGGCCTCCCAAAGTGCTGGGATTACAGGCATG
22147 T T A AGGTGATCTGCCCACCTCAGCCTCCCAAAGTGCTGGGATTACAGGCATG
22147 IS [CT] CCTAATGCAGGCCGGGTATTACAGGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGTGGGCAGATCACCTGAGGTCAGGAGTTTGAGACCAGCCTGGCCAACATGACGAAAC ctg15907 6
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22177 P A A CGCGCCGAGGACCTGGCTAATTTTTATATTTTTGY
22177 P G A ATGACGTGGCAGACGCCTGGCTAATTTTTATATTTTTGY
22177 T A A TCTACAAAAAATATAAAAATTAGCCAGGCGTGGTGGCACGCGCCTGTAGTCCCA
22177 T G A TCTACAAAAAATATAAAAATTAGCCAGGCGTGGTGGCACGCGCCTGTAGTCCCA
22177 IS [AG] TTAAGCAATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGACTACAGGCGCGCTGCCACCACCAC[AG]CCTGGCTAATTTTTATATTTTTTGTAGAGGCAGAGTTTCACCATGTTGGCCAGGCTGGTC ctg22fin4 22
22196 1 S CCGCCAGAGTAGCTGACAGGGTGGTA
22196 P A S CGCGCCGAGGTCCATGTGGCCAGY
22196 P G S ATGACGTGGCAGACCCCATGTGGCCCAY
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22196 T G S GTCACTGGGCCACATGGGACCACCCTGTCAGCTACTCTGGGGGCA
22196 IS [AC] CTTTGCTGCCAGCTTGTTACTGGTAATGCCACATGACCCTCATGTCACTGGGCCACATGG[AC]ACCACCCTGTCAGCTACTCTGGCGGCAGCAGCAGGGCAGGGATGGGGTCTCACTCCCGGG ctg15064 7
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22224 P G A ATGACGTGGCAGACGTGCAGCTCCCAGGY
22224 P A A CGCGCCGAGGATGCAGCTCCCAGGY
22224 T G A TGACCCTGGGAGCTGCAGCAGAAACGTGAGAGGGCAAGTACTGAGTCTTTTCTCA
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22224 IS [GA] TACCCAAGAGCCCCGGGCTTTGAGAAAAGACTCAGTACTTGCCCTCTCACGTTTCTGC[GA]TGCAGCTCCCAGGGTCAGGAGGCAGACACACTCATATAACTTGCTATAACTTCAATACAC ctg25099 7
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22258 P G S ATGACGTGGCAGACCGAAGAATTAAAACAGGCCY
22258 P A S CGCGCCGAGGTGAAGAATTAAAACAGGCCTY
22258 T G S TTTGAGGCCTGTTTTAATTCTTCGTAATATTATTTGATTCATGTAATCGTAGGAATGAGGTGGTTTTTCTCATTTGAT
22258 T A S TTTGAGGCCTGTTTTAATTCTTCATAATATTATTTGATTCATGTAATCGTAGGAATGAGGTGGTTTTTCTCATTTGAT
22258 IS [GA] AAATAATATAATAATAGTCTCTCACCTTTGCACAAGATTTGAGGCCTGTTTTAATTCTTC[GA]TAATATTATTTGATTCATGTAATCGTAGGAATGAGGTGGTTTTTCTCATTTGATGATAAA
22267 1 S ACACTGTGATATGTACGCAGATAAGCAATGTTCAGACT
22267 P T S CGCGCCGAGGAAGAATCCAGAAGGATACGY
22267 P C S ATGACGTGGCAGACGAGAATCCAGAAGGATACGY
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FIGURE 129F



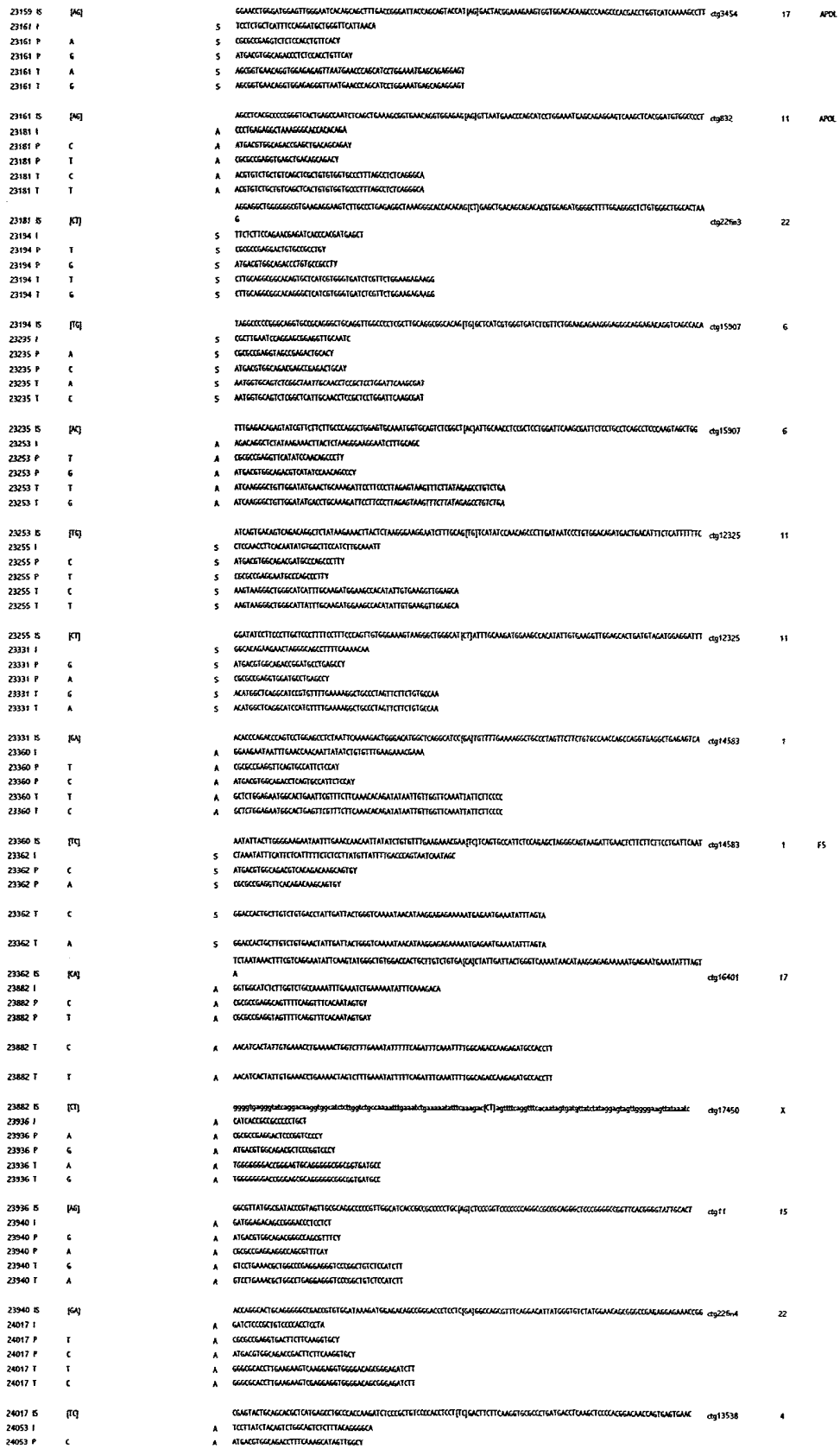
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FIGURE 129F



Applied Biosystems

FIGURE 129F



Unpublished U.S. Patent Application

FIGURE 129F

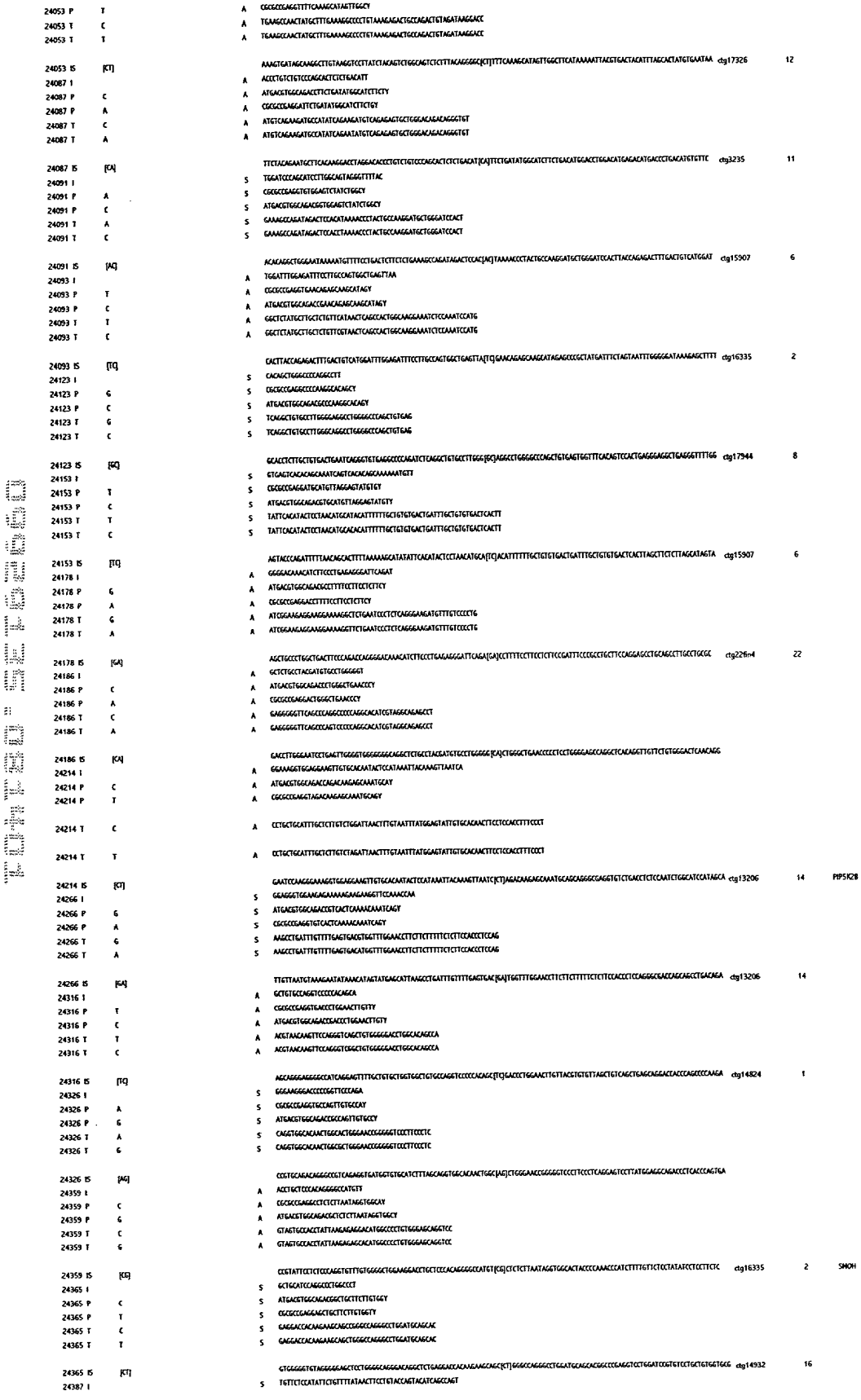

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24087 T C A ATGTCAGAAGATGCCATATCAGAATATGTCAGAGAGTGCTGGGACAGACAGGGTGT
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24087 IS [CA] TTCTACAGAATGCTTCACAAGGACCTAGGACACCCTGTCTGTCCCAGCACTCTCTGACAT[CA]TTCTGATATGGCATCTTCTGACATGGACCTGGACATGAGACATGACCCTGACATGTGTTC ctg3235 11
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24091 P C S ATGACGTGGCAGACGGTGGAGTCTATCTGGCY
24091 T A S GAAAGCCAGATAGACTCCACATAAAACCCTACTGCCAAGGATGCTGGGATCCACT
24091 T C S GAAAGCCAGATAGACTCCACTAAAACCCTACTGCCAAGGATGCTGGGATCCACT
24091 IS [AC] ACACAGGCTGGGAATAAAAATGTTTTCCTGACTCTTCTCTGAAAGCCAGATAGACTCCAC[AC]TAAAACCCTACTGCCAAGGATGCTGGGATCCACTTACCAGAGACTTTGACTGTCATGGAT ctg15907 6
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24093 T C A GGCTCTATGCTTGCTCTGTTCGTAACTCAGCCACTGGCAAGGAAATCTCCAAATCCATG
24093 IS [TC] CACTTACAGAGACTTTGACTGTCATGGATTTGGAGATTTCCTTGCCAGTGGCTGAGTTA[TC]GAACAGAGCAAGCATAGAGCCCGCTATGATTTCTAGTAATTTGGGGGATAAAGAGCTTTT ctg16335 2
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24123 P G S CGCGCCGAGGCCCCAAGGCACAGCY
24123 P C S ATGACGTGGCAGACGCCCAAGGCACAGY
24123 T G S TCAGGCTGTGCCTTGGGCAGGCCTGGGGCCCAGCTGTGAG
24123 T C S TCAGGCTGTGCCTTGGGCAGGCCTGGGGCCCAGCTGTGAG
24123 IS [GC] GCACCTCTTGCTGTGACTGAATCAGGGTGTGAGGCCCCAGATCTCAGGCTGTGCCTTGGG[GC]AGGCCTGGGGCCCAGCTGTGAGTGGTTTCACAGTCCACTGAGGGAGGCTGAGGGTTTTGG ctg17944 8
24153 I S GTGAGTCACACAGCAAATCAGTCACACAGCAAAAAATGTT
24153 P T S CGCGCCGAGGATGCATGTTAGGAGTATGTGY
24153 P C S ATGACGTGGCAGACGTGCATGTTAGGAGTATGTY
24153 T T S TATTCACATACTCCTAACATGCATACATTTTTTGCTGTGTGACTGATTTGCTGTGTGACTCACTT
24153 T C S TATTCACATACTCCTAACATGCACACATTTTTTGCTGTGTGACTGATTTGCTGTGTGACTCACTT
24153 IS [TC] AGTACCCAGATTTTTAACAGCACTTTTAAAAAGCATATATTCAGATACTCCTAACATGCA[TC]ACATTTTTTGCTGTGTGACTGATTTGCTGTGTGACTCACTTAGCTTCTCTTAGGATAGTA ctg15907 6
24178 I A GGGGACAAACATCTTCCCTGAGAGGGATTCAGAT
24178 P G A ATGACGTGGCAGACGCCTTTTCCTTCCTCTTCY
24178 P A A CGCGCCGAGGAACCTTTTCCTTCCTCTTCY
24178 T G A ATCGGAAGAGGAAGGAAAAGCTCTGAATCCCTCTCAGGGAAGATGTTTGTCCCCTG
24178 T A A ATCGGAAGAGGAAGGAAAAGGTTCTGAATCCCTCTCAGGGAAGATGTTTGTCCCCTG
24178 IS [GA] AGCTGCCCTGGCTGACTTCCCAGACAGGGGACAAACATCTTCCCTGAAGAGGGATTCAGA[GA]CCTTTTCCTTCCTCTTCCGATTTCCCGCCCTGCTTCCAGGAGCCTGCAGCCTTGCCTGCGC ctg226n4 22
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24186 P A A CGCGCCGAGGACTGGGCTGAACCCY
24186 T C A GAGGGGGTTCAGCCCAGGCCCCCAGGCACATCGTAGGCAGAGCCT
24186 T A A GAGGGGGTTCAGCCCAGTCCCCCAGGCACATCGTAGGCAGAGCCT
24186 IS [CA] GACCTTGGGAATCCTGAGTTGGGGTGGGGGGGCAGCTCTGCCTACGATGTGCCTGGGGG[CA]CTGGGCTGAACCCCCTCCTGGGCAGCCAGGCTCACAGGTTGTTCTGTGGGACTCAACAGG
24214 I A GGAAAGGTGCAGGAAGTTGTGCACAATACTCCATAAATTACAAAGTTAATCA
24214 P C A ATGACGTGGCAGACCAGACAAGAGCAAATGCAY
24214 P T A CGCGCCGAGGTAGACAAGAGCAAATGCAGY
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24316 I A GCTGTGCCAGGTCCCCCACAGCA
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24316 P C A ATGACGTGGCAGACCCACCCTGGAACTTGTY
24316 T T A ACGTAACAAGTTCCAGGGTCAGCTGTGGGGGAACCTGGCACAGCCA
24316 T C A ACGTAACAAGTTCCAGGGTCGAGCTGTGGGGGAACCTGGCACAGCCA
24316 IS [TC] AGCAGGGAGGGGCCATCAGGAGTTTTGCTGTGCTGGTGGCTGTGCCAGGTCCCCCACAGC[TC]GACCCTGGAACTTGTTACGTGTGTTAGCTGTCAGCTGAGCAGGACTACCCAGCCCCAAGA ctg14824 1
24326 I S GGGAAGGGACCCCCGGTTCCCAGA
24326 P A S CGCGCCGAGGTGCCAGTTGTGCCAY
24326 P G S ATGACGTGGCAGACCGCCAGTTGTGCCY
24326 T A S CAGGTGGCACAACTGGCACTGGGAACCGGGGGTCCCTTCCCTC
24326 T G S CAGGTGGCACAACTGGCGCTGGGAACCGGGGGTCCCTTCCCTC
24326 IS [AG] CCGTGCAGACAGGGCCGTCAGAGGTGATGGTGTGCATCTTTAGCAGGTGGCAACAACTGGC[AG]CTGGGAACCGGGGGTCCCTTCCCTCAGGAGTCCTTATGGCAGCAGACCCTCACCCAGTGA
24359 I A ACCTGCTCCCACAGGGGCCATGTT
24359 P C A CGCGCCGAGGCCTCTCTTAATAGGTGGCAY
24359 P G A ATGACGTGGCAGACGCTCTCTTAATAGGTGGCY
24359 T C A GTAGTGCCACCTATTAAGAGAGGACATGGCCCCTGTGGGAAGCAGGTCC
24359 T G A GTAGTGCCACCTATTAAGAGAGCACATGGCCCCTGTGGGAAGCAGGTCC
24359 IS [CG] CCGTATTCCTCTCCCAGGTGTTTGTGGGGCTGGAAGGACCTGCTCCCACAGGGGCCATGT[CG]CTCTCTTAATAGGTGGCACTACCCCAAACCCATCTTTTGTTCTCCTATATCCTCCTTCTC ctg16335 2 SMOH
24365 I S GCTGCATCCAGGCCCTGGCCCT
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24365 IS [CT] GTGGGGGTGTAGGGGGAGCTCCTGGGGCAGGGACAGGCTCTGAGGACCACAAGAAGCAGC[CT]GGGCCAGGGCCTGGATGCAGCACGGCCCCAGGTCCTGGATCCGTGTCCTGCTGTGGTGCG ctg14932 16
24387 I S TGTTCTCCATATTCTGTTTTATAACTTCCTGTACCAGTACATCAGCCAGT

FIGURE 129F

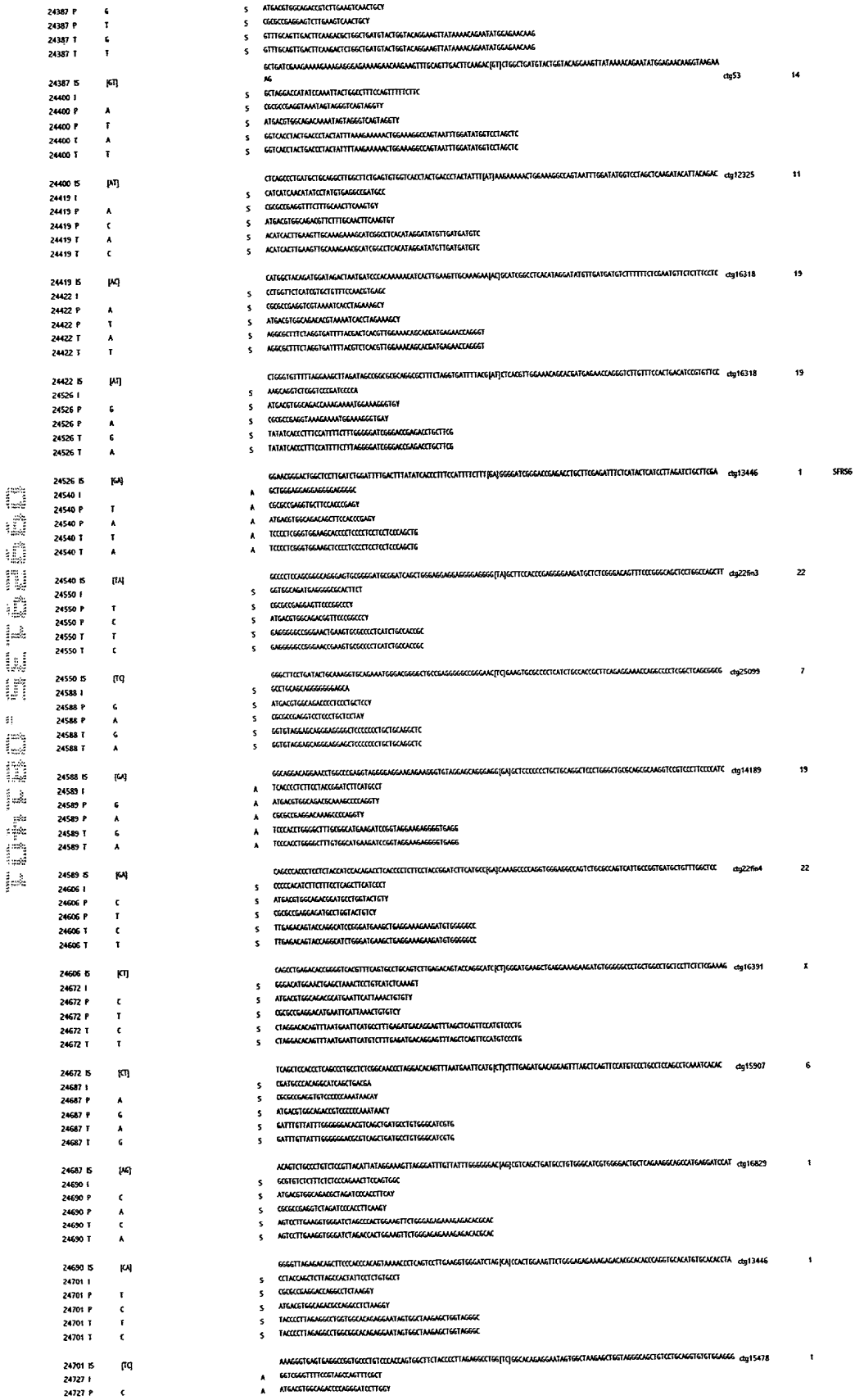


FIGURE 129F

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24727 T   C                A   CTTCCCAAGGATCCCTGGGGCGAAACTGGCTACGGAAAACCCGAACCGC
24727 T   A                A   CTTCCCAAGGATCCCTGGTGCGAAACTGGCTACGGAAAACCCGACCGC

24727 IS  [CA]                 TGACGGTGGGACTATCCTGCAAGGTGTGACTGCGGTCGGGTTTTCCGTAGCCAGTTTCGC[CA]CCAGGGATCCTTGGGAAGCGCTGGGATGGTTCAACTGGGTGGGGTCAGAAGCTGCTCCCC ctg15478   1
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24774 P   C                A   ATGACGTGGCAGACCGAGACTGGCAAGGGY
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24774 T   C                A   AGTCCCCTTGCCAGTCTCGGGGTACCAGGTGTCTGGGTGCTGGCAG
24774 T   T                A   AGTCCCCTTGCCAGTCTCAGGGTACCAGGTGTCTGGGTGCTGGCAG

24774 IS  [CT]                 TCTGGTGACCCCAGAAAACATGCAGTGCCGCTCTGCCAGCACCCAGACACCTGGTACCC[CT]GAGACTGGCAAGGGGACTGGAAGAGGGCAGTGGCCTCCAGGCTCCCTCCACACTGCCCAG
24780 I                    S   CCCTCTTGTAAGCTTCTCCGCCATCCCT
24780 P   C                S   ATGACGTGGCAGACGGCTCCAGGCAGY
24780 P   T                S   CGCGCCGAGGAGGCTCCAGGCAGY
24780 T   C                S   GTGACTGCCTGGAGCCCGGGATGGCGGGAGAAGCTTACAAGAGGGGA
24780 T   T                S   GTGACTGCCTGGAGCCTGGGATGGCGGGAGAAGCTTACAAGAGGGGA

24780 IS  [CT]                 CCTGCCCCGGCAGTGGGGAGGGCCCGATTTGCTCCCACACACGGGGTGACTGCCTGGAGCC[CT]GGGATGCGGGAGAAGCTTACAAGAGGGGACAGGCCCCTGCTCACCTCTCCTGGCCCTGC ctg16282   1
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24783 P   G                A   ATGACGTGGCAGACGCTTCAGGCACCGAY
24783 P   C                A   CGCGCCGAGGCCTTCAGGCACCGAY
24783 T   G                A   GGCATCGGTGCCTGAAGCCTGCCCACCTCCCCGTGCTGGC
24783 T   C                A   GGCATCGGTGCCTGAAGCCTGCCCACCTCCCCGTGCTGGC

24783 IS  [GC]                 TGGGGCGAGGCCAGCCCCACATGGAAGCCTAAGCGGAGCCAGCACGCGGGAGAGTGGGCAG[GC]CTTCAGGCACCGATGCCCACCCAGTGCGAGACGACGGGACCGTGGGCAGGGGCTTCAA ctg17341   14
24842 I                    S   GGAAGGAAATTGCCTTTTCTGACCATTTTCATCATGTTT
24842 P   G                S   CGCGCCGAGGCCTTTTCTGGGAAATACATCTY
24842 P   C                S   ATGACGTGGCAGACGCTTTCTGGGAAATACATCY
24842 T   G                S   TTTCAGATGTATTTCCCAGAAAAGGAACATGATGAAAATGGTCAGAAAAGGCAATTTCCTTCCTC
24842 T   C                S   TTTGAGATGTATTTCCCAGAAAAGCAACATGATGAAAATGGTCAGAAAAGGCAATTTCCTTCCTC

24842 IS  [GC]                 AACAGGTATGAGCATGGGAAAAGCATGTTTCAAGAATTTGAGATGTATTTCCCAGAAAAG[GC]AACATGATGAAAATGGTCAGAAAAGGCAATTTCCTCCTCTTTTCTAATTTGGCTCTGGA ctg15054   1
24851 I                    A   GCCTCTGTCCCCATCATGAATCGTAGCACAGA
24851 P   C                A   ATGACGTGGCAGACGCTAGGCTCAGTAAATGY
24851 P   T                A   CGCGCCGAGGTGCTAGGCTCAGTAAATGY
24851 T   C                A   TCAGCATTTACTGAGCCTAGCGCTGTGCTACGATTCATGATGGGGACAGAGGCAC
24851 T   T                A   TCAGCATTTACTGAGCCTAGCACTGTGCTACGATTCATGATGGGGACAGAGGCAC

24851 IS  [CT]                 ACTCAGAGGCAGGAACCAGGGAFTATGTGCCTCTGTCCCATCATGAATCGTAGCACAG[CT]GCTAGGCTCAGTAAATGCTGATCAATAATGAGCACCTGATTGATTGACTCTCTCCTCAGT ctg12823   16
24988 I                    S   CAACATTTAAACCCATTTTTTTTGCCCCTACATAATAATAAAAAAAGACTTA
24988 P   G                S   ATGACGTGGCAGACCCCAAGGAAGTGGTGY
24988 P   A                S   CGCGCCGAGGTCCAAAGGAAGTGGTGGY
24988 T   G                S   TCTCCACCACTCTCCTTTGGGAAGTCTTTTTTTATTATTGTAGGGGCAAAAAAAATGGGTTTAAATGTTGAA
24988 T   A                S   TCTTCCACCACTCTCCTTTGGAAAGTCTTTTTTTATTATTGTAGGGGCAAAAAAAATGGGTTTAAATGTTCAA

24988 IS  [GA]                 TTTGGACCATCTGGTTTTTAATGTCTTGAGCAATGGGGTTTCTTCCACCACTTCCTTTGG[GA]AAGTCTTTTTTTATTATTGTAGGGGCAAAAAAAATGGGTTTAAATGTTGAAGGCATTTGG MULTIPLE   MULTIPLE
25008 I                    S   GGTCTGCAGGAAAGCCTGGGAACTCAAGTCAT
25008 P   T                S   CGCGCCGAGGACAAATTCTAATTACAGGTTYAAGGY
25008 P   C                S   ATGACGTGGCAGACGCAAATTCTAATTACAGGTTYAAGY
25008 T   T                S   TCTGCCTTAAACCTGTAATTAGAATTTGTTGACTTGAGTYCCCAGGCTTYCCYCCAGACCCA
25008 T   C                S   TCTGCCTTAAACCTGTAATTAGAATTTGCTGACTTGAGTYCCCAGGCTTYCCYCCAGACCCA

25008 IS  [TC]                 GGGGATTTTAAGAATCTGGGGGGCTTTAAGAATCTGCCTTAAACCTGTAATTAGAATTTG[TC]TGACTTGAGTYCCCAGCCTTTCCYCCAGACCCAGAAAGCTGTCAGTATCTCAGGGTAGAT ctg14637   5
25012 I                    S   GCCTTCAGATTCATCCTTAAAATGAACCCAACCTCCCT
25012 P   G                S   ATGACGTGGCAGACAGAGCCAGCAGAATAGAY
25012 P   T                S   CGCGCCGAGGAAGAGCCAGGAGAATAGATY
25012 T   G                S   TGTCATCTATTCTCCTGGCTCTGGGGAGGTTGGGTTCATTTTAAGGATGAATCTGAAGCCA
25012 T   T                S   TGTCATCTATTCTCCTGGCTCTTGGGAGGTTGGGTTCATTTTAAGGATGAATCTGAAGCCA

25012 IS  [GT]                 TTTCACATTCTGTCCTGGGATAGGTCAATCTGGCTTTCTGTCATCTATTCTCCTGGCTCT[GT]GGGAGGTTGGGTTCATTTTAAGGATGAATCTGAAGGCCACCTTGATGGGAACTTCAGGTA ctg21fnZ   21
25033 I                    S   CGAAAGCAGGGCTTCCCCCCGCA
25033 P   G                S   ATGACGTGGCAGACCTGTTGACAGGACGGY
25033 P   A                S   CGCGCCGAGGTTGTTGACAGGACGGCY
25033 T   G                S   GGCGGCCGTCCTGTCAACAGCCCGGCGGAAGCCGTGCTTTCGCG
25033 T   A                S   GGCGGCCGTCCTGTCAACAGCCCGGCGGAAGCCGTGCTTTCGCG

25033 IS  [GA]                 TACCTCTACTGCGTAGAGGCCGTAGCTGGCGAAGGAGAGAGGCGCCGTCCTGTCAACA[GA]GCCGGGGGAAGCCGTGCTTCGCGGCTGCCCGGTGCGAACACTTTCTCCGAACCAGCATG ctg14945   16   ASK
25062 I                    A   CTTCCTTCCCACCGCCTGCAGAATGCT
25062 P   G                A   ATGACGTGGCAGACGTAAGTCCCTGAGCATTAACY
25062 P   C                A   CGCGCCGAGGCTAAGTCCCTGAGCATTAACY
25062 T   G                A   TTCTGTTAATGCTCAGGGACTTACGCATTCTGCAGGCGGTGGGAAGGAAGCA
25062 T   C                A   TTCTGTTAATGCTCAGGGACTTAGGCATTCTGCAGGCGGTGGGAAGGAAGCA

25062 IS  [GC]                 TTAGATTTTCTTTAATTGTTCTATCACTCTCTGCTTCCTTCCCACCGCCTGCAGAATGC[GC]TAAGTCCCTGAGCATTAACAGAAGGTCCTGCACGATCTGCTCCACTTACCTTTCCAGGCC ctg15361   6
25063 I                    S   CATGAGGCCTGGAAAGGTAAGTGGAGCAGATCT
25063 P   C                S   ATGACGTGGCAGACGTGCAGGAACCTTCTGTY
25063 P   T                S   CGCGCCGAGGATGCAGGAACCTTCTGTY
25063 T   C                S   ATTAACAGAAGGTCCTGCACGATCTGCTCCACTTACCTTTCCAGGCCTCATGGT
25063 T   T                S   ATTAACAGAAGGTCCTGCATGATCTGCTCCACTTACCTTTCCAGGCCTCATGGT

25063 IS  [CT]                 GCTTCCTTCCCACCGCCTGCAGAATGCCTAAGTCCCTGAGCATTAACAGAAGGTCCTGCA[CT]GATCTGCTCCACTTACCTTTCCAGGCCTCATGGTTTAGCTATAATGAATTACTGGCTAGC ctg16733   3
25318 I                    S   CAGGAGAGGAGCTCCGCGGCCACTTT
25318 P   G                S   CGCGCCGAGGCTCAGCCCCAGGCY
25318 P   C                S   ATGACGTGGCAGACGTCAGCCCCAGGCY
25318 T   G                S   CAGGGCCTGGGGCTGAGAACTGGCCGCGGAGTCCTCTCCTGAG
25318 T   C                S   CAGGGCCTGGGGCTGACAACTGGCCGCGGAGTCCTCTCCTGAG

25318 IS  [GC]                 CATGGGAATTCAAGTGTGCAAGCAGAGCAGGGGAAATGGTAAGCAGGCCTGGGGCTGA[GC]AAGTGGCCGCGGAGTCCTCTCCTGAGCTCACACCAGGGGTGCCTGGACAGCAGAGAGCCCT ctg15907   6
25322 I                    A   AGACAAAGAAAATGTCTGCTCCCACTATAGAAAAAGAGATTATTTTATT
25322 P   A                A   CGCGCCGAGGAATAAACAGTGGCTAATAATAACAATY
25322 P   C                A   ATGACGTGGCAGACCATAAACAGTGGCTAATAATAACAAT

25322 T   A                A   TTTTATTGTTATTATTAGCCACTGTTTATTATAAAATAATCTCTTTTCTATAGTGGGAGCAGACATTTCTCTTGTCTTT

25322 T   C                A   TTTTATTGTTATTATTAGCCACTGTTTATGATAAAATAATCTCTTTTCTATAGTGGGAGCAGACATTTCTCTTGTCTTT

25322 IS  [AC]                 TCCTTTCACAAAGACAAAGAGAAATGTCTGCTCCCACTATAGAAAAAGAGATTATTTTATT[AC]ATAAACAGTGGCTAATAATAACAATAAAATAGACTAAAAGTAGCCACCACCATCTGTTTT ctg14243   19
25332 I                    A   AGTGGCTTTGGGGTGTGGGCTTGGA
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FIGURE 129F

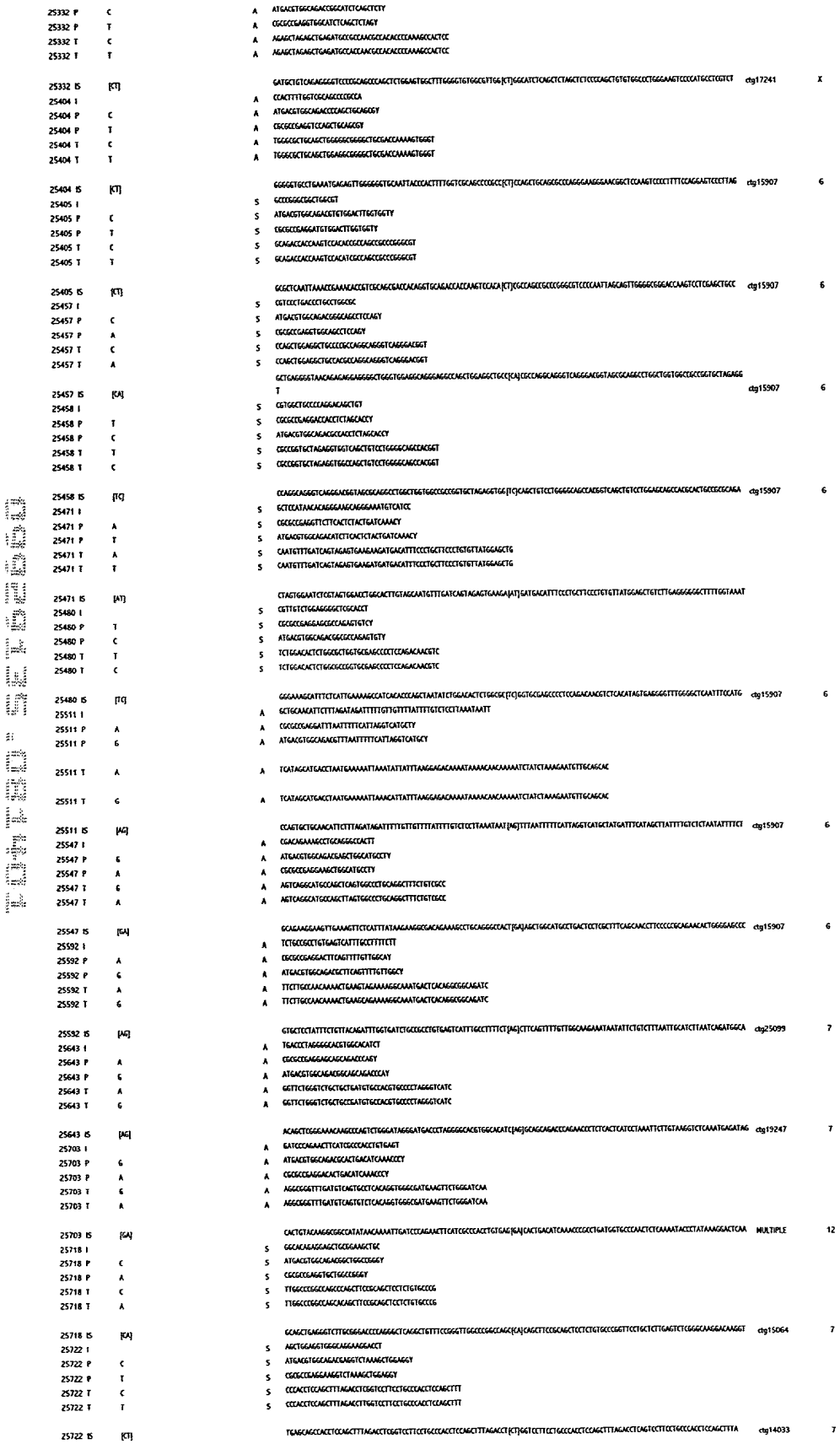

25332 P C A ATGACCTGGCAGACCGGCATCTCAGCTCTY
25332 P T A CGCGCCGAGGTGGCATCTCAGCTCTAGY
25332 T C A AGAGCTAGAGCTGAGATGCCGCCAACGCCACACCCCAAAGCCACTCC
25332 T T A AGAGCTAGAGCTGAGATGCCACCAACGCCACACCCCAAAGCCACTCC
25332 IS [CT] GATGCTGTCAGAGGGGTCCCCGCAGCCCAGCTCTGGAGTGGCTTTGGGGTGTGGCGTTGG[CT]GGCATCTCAGCTCTAGCTCTCCCCAGCTGTGTGGCCCTGGCAAGTCCCCATGCCTCGTCT ctg17241 X
25404 I A CCACTTTTGGTCGCAGCCCCGCCA
25404 P C A ATGACGTGGCAGACCCCAGCTGCAGGGY
25404 P T A CGCGCCGAGGTCCAGCTGCAGCGY
25404 T C A TGGCGCTGCAGCTGGGGGCGGGGCTGCGACCAAAGTGGGT
25404 T T A TGGCGCTGCAGCTGGAGGCGGGGCTGCGACCAAAGTGGGT
25404 IS [CT] GGGGGTGCCTGAAATGAGAGTTGGGGGGTGCAATTACCCACTTTTGGTCGCAGCCCCGCC[CT]CCAGCTGCAGGGCCCAGGCGAAGGGAACGGCTCCAAGTCCCCTTTCCAGGAGTCCCTTAG ctg15907 6
25405 I S GCCCGGGCGGCTGGCGT
25405 P C S ATGACGTGGCAGACGTGTGGACTTGGTGGTY
25405 P T S CGCGCCGAGGATGTGGACTTGGTGGTY
25405 T C S GCAGACCACCAAGTCCACACCGCCAGCCGCCCGGGCGT
25405 T T S GCAGACCACCAAGTCCACATCGCCAGCCGCCCGGGCGT
25405 IS [CT] GCGCTCAATTAAACCGAAACACCGTCGCAGCGACCACAGGTGCAGACCACCAAGTCCACA[CT]CGCCAGCCGCCCGGGCGTCCCCAATTAGCAGTTGGGGCCGGCACCAAGTCCTCGAGCTGCC ctg15907 6
25457 I S CGTCCCTGACCCTGCCTGGCGC
25457 P C S ATGACGTGGCAGACGGGCAGCCTCCAGY
25457 P A S CGCGCCGAGGTGGCAGCCTCCAGY
25457 T C S CCAGCTGGAGGCTGCCCGCCAGGCAGGGTCAGGGACGGT
25457 T A S CCAGCTGGAGGCTGCCACGCCAGGCAGGGTCAGGGACGGT
25457 IS [CA] GCTGAGGGGTAACAGAGAGAGGGGCTGGGTGGAGGCAGGGAGGCCAGCTGCAGGCTGCCC[CA]CCCCAGGCAGGGTCAGGGACGGTAGCGCAGGCCTGGCTGGTGGCCGCCGGTGCTAGAGG
T ctg15907 6
25458 I S CGTGGCTGCCCCAGGACAGCTGT
25458 P T S CGCGCCGAGGACCACCTCTAGCACCY
25458 P C S ATGACGTGGCAGACGCCACCTCTAGCACCY
25458 T T S CGCCGGTGCTAGAGGTGGTCAGCTGTCCTGGGGCAGCCACGGT
25458 T C S CGCCGGTGCTAGAGGTGGCCAGCTGTCCTGGGGCAGCCACGGT
25458 IS [TC] CCAGGCAGGGTCAGGGACGGTAGCGCAGGCCTGGCTGGTGGCCGCCGGTGCTAGAGGTGG[TC]CAGCTGTCCTGGGGCAGCCACGGTCAGCTGTCCTGGAGCAGCCACGCACTGCCGCCGCAGA ctg15907 6
25471 I S GCTCCATAACACAGGGAACGAGCAGGGAAATGTCATCC
25471 P A S CGCGCCGAGGTTCTTCACTCTCACTGATCAAACY
25471 P T S ATGACGTGGCAGACATCTTCACTCTACTGATCAAACY
25471 T A S CAATGTTTGATCAGTAGAGTGAAGAAGATGACATTTCCCTGCTTCCCTGTGTTATGGAGCTG
25471 T T S CAATGTTTGATCAGTAGAGTGAAGATGATGACATTTCCCTGCTTCCCTGTGTTATGGAGCTG
25471 IS [AT] CTAGTGGAATCTCGTAGTGGAACTGGCACTTGTAGCAATGTTTGATCAGTAGAGTGAAGA[AT]GATGACATTTCCCTGCTTCCCTGTGTTATGGAGCTGTCTTGAGGGGGGCTTTTGGTAAAT
25480 I S CGTTGTCTGGAGGGGCTCGCACCT
25480 P T S CGCGCCGAGGAGCGCCAGAGTGTCY
25480 P C S ATGACGTGGCAGACGGCGCCAGAGTGTY
25480 T T S TCTGGACACTCTGGGCGCTGGTGCGAGCCCCTCCAGACAACGTC
25480 T C S TCTGGACACTCTGGGCGCCGTGCGAGCCCCTCCAGACAACGTC
25480 IS [TC] GGGAAAGCATTTCTCATTGAAAAGCCATCACACCCAGCTAATATCTGGACACTCTGGCGC[TC]GGTGCGAGCCCCTCCAGACAACGTCTCACATAGTGAAGGGTTTGGGGCTCAATTTCCATG ctg15907 6
25511 I A GCTGCAACATTCTTTAGATAGATTTTTGTTGTTTTATTTTGTCTCCTTAAATAATT
25511 P A A CGCGCCGAGGATTTAATTTTTCATTAGGTCATGCTY
25511 P G A ATGACGTGGCAGAGTTTAATTTTTCATTAGGTCATGCY
25511 T A A TCATAGCATGACCTAATGAAAAATTAAATATTATTTAAGGAGACAAAATAAAACAACAAAATCTATCTAAAGAATGTTGCAGCAC
25511 T G A TCATAGCATGACCTAATGAAAAATTAAACATTATTTAAGGAGACAAAATAAAACAACAAAATCTATCTAAAGAATGTTGCAGCAC
25511 IS [AG] CCAGTGCTGCAACATTCTTTAGATAGATTTTTGTTGTTTTATTTTGTCTCCTTAAATAAT[AG]TTTAATTTTTCATTAGGTCATGCTATGATTTCATAGCTTATTTTGTCTCTAATATTTTCT ctg15907 6
25547 I A CGACAGAAAGCCTGCAGGGCCACTT
25547 P G A ATGACGTGGCAGACGAGCTGGCATGCCTY
25547 P A A CGCGCCGAGGAAGCTGGCATGCCTY
25547 T G A AGTCAGGCATGCCAGCTCAGTGGCCCTGCAGGCTTTCTGTCGCC
25547 T A A AGTCAGGCATGCCAGCTTAGTGGCCCTGCAGGCTTTCTGTCGCC
25547 IS [GA] GCAGAAGGAAGTTGAAAGTTCTCATTTATAAGAAGGCGACAGAAAGCCTGCAGGGCCACT[GA]AGCTGGCATGCCTGACTCCTCGCTTTCAGCAACCTTCCCCCGCAGAACACTGGGGAGCCC ctg15907 6
25592 I A TCTGCCGCCTGTGAGTCATTTGCCTTTCTT
25592 P A A CGCGCCGAGGACTTCAGTTTTGTTGGCAY
25592 P G A ATGACGTGGCAGACGCTTCAGTTTTGTTGGCY
25592 T A A TTCTTGCCAACAAAACTGAAGTAGAAAAGGCAAATGACTCACAGGGCGGCAGATC
25592 T G A TTCTTGCCAACAAAACTGAAGCAGAAAAGGCAAATGACTCACAGGCGGCAGATC
25592 IS [AG] GTGCTCCTATTTCTGTTACAGATTTGGTGATCTGCCGCCTGTGAGTCATTTGCCTTTTCT[AG]CTTCAGTTTTGTTGGCAGAAATAATATTCTGTCTTTAATTGCATCTTAATCAGATGGCA ctg25099 7
25643 I A TGACCCTAGGGGCACGTGGCACATCT
25643 P A A CGCGCCGAGGAGCAGCAGACCCAGY
25643 P G A ATGACGTGGCAGACGGCAGCAGACCCAY
25643 T A A GGTTCTGGGTCTGCTGCTGATGTGCCACGTGCCCCTAGGGTCATC
25643 T G A GGTTCTGGGTCTGCTGCCGATGTGCCACGTGCCCCTAGGGTCATC
25643 IS [AG] ACAGCTCGGGCAAACAAGCCCAGTCTGGGATAGGGATGACCCTAGGGGCACGTGGCACATC[AG]GCAGCAGACCCAGAACCCTCTCACTCATCCTAAATTCTTGTAAGGTCTCAAATGAGATAG ctg19247 7
25703 I A GATCCCAGAACTTCATCGCCCACCTGTGAGT
25703 P G A ATGACGTGGCAGACGCACTGACATCAACCCY
25703 P A A CGCGCCGAGGACACTGACATCAACCCY
25703 T G A AGGCGGGTTTGATGTCAGTGTCTCACAGGTGGGCGATGAAGTTCTGGGATCAA
25703 T A A AGGCGGGTTTGATGTCAGTGTCTCACAGGTGGGCGATGAAGTTCTGGGATCAA
25703 IS [GA] CACTGTACAAGGCGGCCATATAACAAAATTGATCCCAGAACTTCATCGCCCACCTGTGAG[GA]CACTGACATCAAACCGCCTGATGGTGCCCAACTCTCAAAATACCCTATAAAGGACTCAA MULTIPLE 12
25718 I S GGCACAGAGCAGCTGCGGAAGCTGC
25718 P C S ATGACGTGGCAGACGGCTGGCCGGGY
25718 P A S CGCGCCGAGGTGCTGCCGCCGGGY
25718 T C S TTGGCCCGGCCAGCCCAGCTTCCGCAGCTCCTCTGTGCCCG
25718 T A S TTGGCCCGGCCAGCACAGCTTCCGCAGCTCCTCTGTGCCCG
25718 IS [CA] GCAGCTGAGGGTCTTGCGGGAACCCAGGACTCAGGCTGTTTCCGGGTTGGCCCGGCCAGC[CA]CAGCTTCCGCAGCTCCTCTGTGCCCGGTTCCTGCTCTTGAGTCTCGGGCAAGGACAAGGT ctg15064 7
25722 I S AGCTGGAGGTGGGCAGGAAGGAACCT
25722 P C S ATGACGTGGCAGACGAGGTCTAAAGCTGGAGGY
25722 P T S CGCGCCGAGGAAGGTCTAAAGCTGGAGGY
25722 T C S CCCACCTCCAGCTTTAGACCTCGGTCCTTCCTGCCCACCTCCAGCTTT
25722 T T S CCCACCTCCAGCTTTAGACCTTGGTCCTTCCTGCCCACCTCCAGCTTT
25722 IS [CT] TGAGCAGCCACCTCCAGCTTTAGACCTCGGTCCTTCCTGCCCACCTCCAGCTTT[CT]GGTCCTTCCTGCCCACCTCCAGCTTTAGACCTCAGTCCTTCCTGCCCACCTCCAGCTTTA ctg14033 7

FIGURE 129F

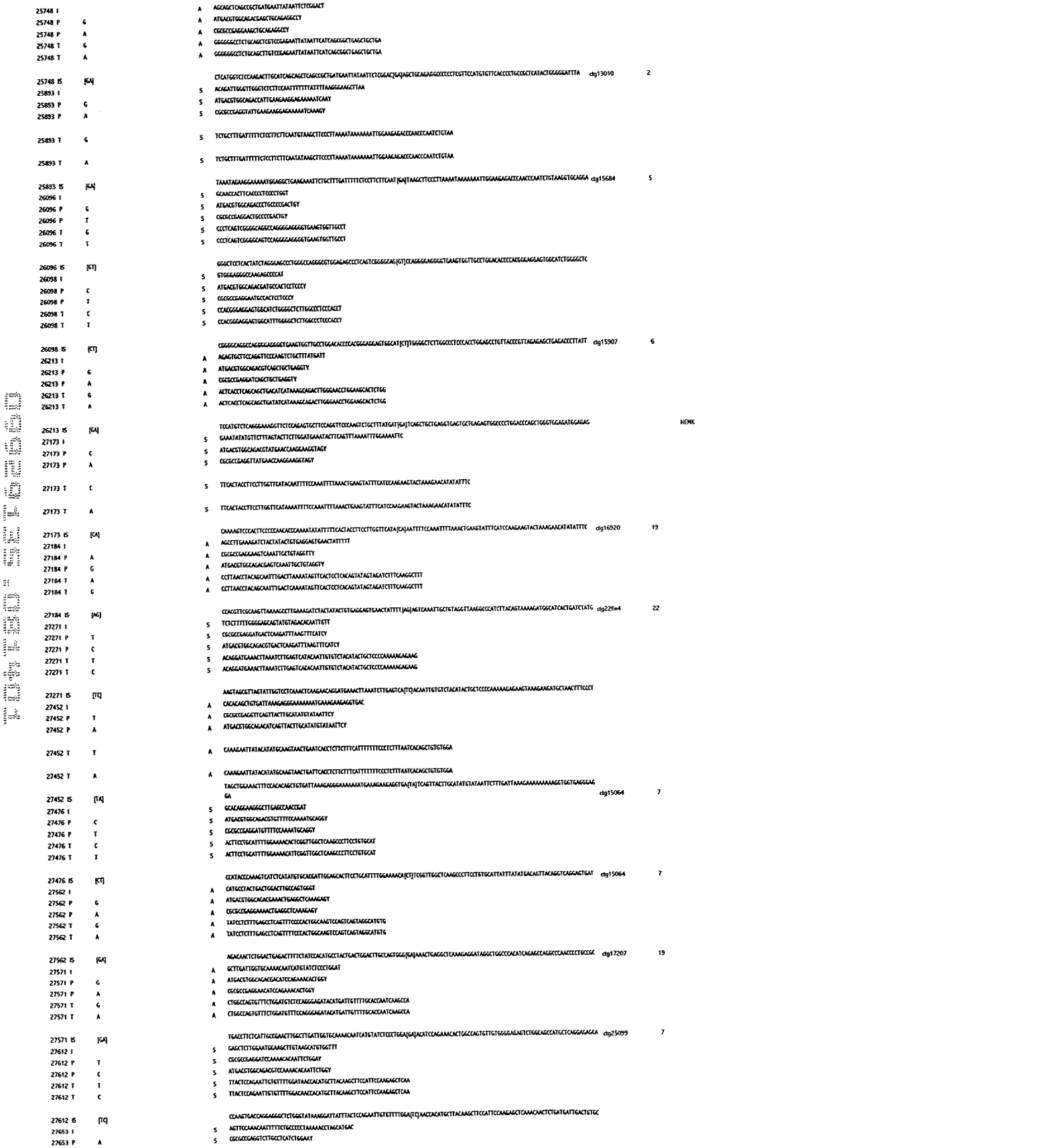

25748 I A AGCAGCTCAGCCGCTGATGAATTATAATTCTCGGACT
25748 P G A ATGACGTGGCAGACSAGCTGCAGAGGCCY
25748 P A A CGCGCCGAGGAAGCTGCAGAGGCCY
25748 T G A GGGGGGCCTCTGCAGCTCGTCCGAGAATTATAATTCATCAGCGGCTGAGCTGCTGA
25748 T A A GGGGGGCCTCTGCAGCTTGTCCGAGAATTATAATTCATCAGCGGCTGAGCTGCTGA
25748 IS [GA] CTCATGGTCTCCCAAGACTTGCATCAGCAGCTCAGCCGCTGATGAATTATAATTCTCGGAC[GA]AGCTGCAGAGGCCCCCCTCGTTCCATGTGTTCACCCCTGCCGCTCATACTGGGGGATTTA dbg13010 2
25893 I S ACAGATTGGGTTGGGTCTCTTCCAATTTTTTTATTTTAAGGGAAGCTTAA
25893 P G S ATGACGTGGCAGACATTGAAGAGGAGAAAAATCAAY
25893 P A S CGCGCCGAGGTATTGAAGAAGGAAGAAAAATCAAAGY
25893 T G S TCTGCTTTGATTTTTCTCCTTCTTCAATGTAAGCTTCCCTTAAAATAAAAAAATTGGAAGAGACCCAACCCAATCTGTAA
25893 T A S TCTGCTTTGATTTTTCTCCTTCTTCAATATAAGCTTCCCTTAAAATAAAAAAATTGGAAGAGACCCAACCCAATCTGTAA
25893 IS [GA] TAAATAGAAGGAAAAATGGAGGCTGAAGAAATCTGCTTTGATTTTTCTCCTTCTTCAAT[GA]TAAGCTTCCCTTAAAATAAAAAAATTGGAAGAGACCCAACCCAATCTGTAAGGTGCAGGA dbg15684 5
26096 I S GCAACCACTTCACCCCTCCCCTGGT
26096 P G S ATGACGTGGCAGACCCTGCCCCGACTGY
26096 P T S CGCGCCGAGGACTGCCCCGACTGY
26096 T G S CCCTCAGTCGGGGCAGCCCAGGGGAGGGGTGAAGTGGTTGCCT
26096 T T S CCCTCAGTCGGGGCAGTCCAGGGGAGGGGTGAAGTGGTTGCCT
26096 IS [GT] GGGCTCCTCACTATCTAGGGAGCCCTGGGCCAGGGAGTGGAGAGCCCTCAGTCGGGGCAG[GT]CCAGGGGAGGGGTGAAGTGGTTGCCTGGACACCCCACGGGAGGAGTGGCATCTGGGGCTC
26098 I S GTGGGAGGGCCAAGAGCCCCAT
26098 P C S ATGACGTGGCAGACGATGCCACTCCTCCCY
26098 P T S CGCGCCGAGGAATGCCACTCCTCCCY
26098 T C S CCACGGGAGGAGTGGCATTCGGGGCTCTTGGCCCTCCCACCT
26098 T T S CCACGGGAGGAGTGGCATTTGGGGCTCTTGGCCCTCCCACCT
26098 IS [CT] CGGGGCAGGCCAGGGCAGGGGTGAAGTGGTTGCCTGGACACCCCACGGGAGGAGTGGCAT[CT]TGGGGCTCTTGGCCCTCCCACCTGGAGCCTGTTACCCGTTAGAGAGCTGAGACCCTTATT dbg15907 6
26213 I A AGAGTGCTCCAGGTTCCCAAGTCTGCTTTATGATT
26213 P G A ATGACGTGGCAGACGTCAGCTGCTGAGGTY
26213 P A A CGCGCCGAGGATCAGCTGCTGAGGTY
26213 T G A AETCACCTCAGCAGCTGACATCATAAAGCAGACTTGGGAACCTGGAAGCACTCTGG
26213 T A A ACTCACCTCAGCAGCTGATATCATAAAGCAGACTTGGGAACCTGGAAGCACTCTGG
26213 IS [GA] TCCATGTCTCAGGGAAAGGTTCTCCAGAGTGCTTCCAGGTTCCCAAGTCTGCTTTATGAT[GA]TCAGCTGCTGAGGTGAGTGCTGAGAGTGGCCCCTGGACCCAGCTGGGTGGAGATGGAGAG HEMK
27173 I S GAAATATATGTTCTTTAGTACTTCTTGGATGAAATACTTCAGTTTAAAATTTGGAAAATTC
27173 P C S ATGACGTGGCAGACGTATGAACCAAGGAAGGTAGY
27173 P A S CGCGCCGAGGTTATGAACCAAGGAAGGTAGY
27173 T C S TTCACTACCTTCCTTGGTTCATACAATTTTCCAAATTTTAAACTGAAGTATTTCATCCAAGAAGTACTAAAGAACATATATTTC
27173 T A S TTCACTACCTTCCTTGGTTCATAAAATTTTCCAAATTTTAAACTGAAGTATTTCATCCAAGAAGTACTAAAGAACATATATTTC
27173 IS [CA] CAAAAGTCCCACTTCCCCCAACACCCAAAATATATTTTTCACTACCTTCCTTGGTTCATA[CA]AATTTTCCAAATTTTAAACTGAAGTATTTCATCCAAGAAGTACTAAAGAACATATATTTC dbg16920 19
27184 I A AGCCTTGAAAGATCTACTATACTGTGAGGAGTGAACTATTTT
27184 P A A CGCGCCGAGGAAGTCAAATTGCTGTAGGTTY
27184 P G A ATGACGTGGCAGACGAGTCAAATTGCTGTAGGTY
27184 T A A CCTTAACCTACAGCAATTTGACTTAAAATAGTTCACTCCTCACAGTATAGTAGATCTTTCAAGGCTTT
27184 T G A CCTTAACCTACAGCAATTTGACTCAAAATAGTTCACTCCTCACAGTATAGTAGATCTTTCAAGGCTTT
27184 IS [AG] CCACGTTCGCAAGTTAAAAGCCTTGAAAGATCTACTATACTGTGAGGAGTGAACTATTTT[AG]AGTCAAATTGCTGTAGGTTAAGGCCCATCTTACAGTAAAAGATGGCATCACTGATCTATG dbg22fin4 22
27271 I S TCTCTTTTTGGGGAGCAGTATGTAGACACAATTGTT
27271 P T S CGCGCCGAGGATGACTCAAGATTTAAGTTTCATCY
27271 P C S ATGACGTGGCAGACGTGACTCAAGATTTAAGTTTCATCY
27271 T T S ACAGGATGAAACTTAAATCTTGAGTCATACAATTGTGTCTACATACTGCTCCCCAAAAGAGAAG
27271 T C S ACAGGATGAAACTTAAATCTTGAGTCACACAATTGTGTCTACATACTGCTCCCCAAAAGAGAAG
27271 IS [TC] AAGTAGCGTTAGTATTGGTCCTCAAACTCAAGAACAGGATGAAACTTAAATCTTGAGTCA[TC]ACAATTGTGTCTACATACTGCTCCCCAAAAGAGAAGTAAAGAAGATGCTAACTTTCCCT
27452 I A CACACAGCTGTGATTAAAGAGGGAAAAAAATGAAAGAAGAGGTGAC
27452 P T A CGCGCCGAGGTTCAGTTACTTGCATATGTATAATTCY
27452 P A A ATGACGTGGCAGACATCAGTTACTTGCATATGTATAATTCY
27452 T T A CAAAGAATTATACATATGCAAGTAACTGAATCAACCTCTTCTTTCATTTTTTTCCCTCTTTAATCACAGCTGTGTGGA
27452 T A A CAAAGAATTATACATATGCAAGTAACTGATTCAACCTCTTCTTTCATTTTTTTCCCTCTTTAATCACAGCTGTGTGGA
27452 IS [TA] TAGCTGGAAACTTTCCACACAGCTGTGATTAAAGAGGGAAAAAAATGAAAGAAGAGGTGA[TA]TCAGTTACTTGCATATGTATAATTCTTTGATTAAAGAAAAAAAAAGGTGGTGAGGGAG GA dbg15064 7
27476 I S GCACAGGAAGGGCTTGAGCCAACCGAT
27476 P C S ATGACGTGGCAGACGTGTTTTCCAAAATGCAGGY
27476 P T S CGCGCCGAGGATGTTTTCCAAAATGCAGGY
27476 T C S ACTTCCTGCATTTTGGAAAACACTCGGTTGGCTCAAGCCCTTCCTGTGCAT
27476 T T S ACTTCCTGCATTTTGGAAAACATTCGGTTGGCTCAAGCCCTTCCTGTGCAT
27476 IS [CT] CCATACCCAAAGTCATCTCATATGTGCACGATTGGAGCACTTCCTGCATTTTGGAAAACA[CT]TCGGTTGGCTCAAGCCCTTCCTGTGCATTATTTATATGACAGTTACAGGTCAGGAGTGAT dbg15064 7
27562 I A CATGCCTACTGACTGGACTTGCCAGTGGGT
27562 P G A ATGACGTGGCAGACGAAACTGAGGCTCAAAGAGY
27562 P A A CGCGCCGAGGAAAAACTGAGGCTCAAAGAGY
27562 T G A TATCCTCTTTGAGCCTCAGTTTCCCCACTGGCAAGTCCAGTCAGTAGGCATGTG
27562 T A A TATCCTCTTTGAGCCTCAGTTTCCCCACTGGCAAGTCCAGTCAGTAGGCATGTG
27562 IS [GA] AGACAACTCTGGACTGAGACTTTCTATCCACATGCCTACTGACTGGACTTGCCAGTGGG[GA]AAACTGAGGCTCAAAGAGGATAGGCTGGCCCACATCAGAGCCAGGCCCAACCCCTGCCGC dbg17207 19
27571 I A GCTTGATTGGTGCAAACAATCATGTATCTCCCTGGAT
27571 P G A ATGACGTGGCAGACGACATCCAGAAACACTGGY
27571 P A A CGCGCCGAGGAAACATCCAGAAACACTGGY
27571 T G A CTGGCCAGTGTTCTGGATGTCTCCAGGGAGATACATGATTGTTTTGCACCAATCAAGCCA
27571 T A A CTGGCCAGTGTTCTGGATGTTTCCAGGGAGATACATGATTGTTTTGCACCAATCAAGCCA
27571 IS [GA] TGACCTTCTCATTGCCGAACTTGGCTTGATTGGTGCAAAACAATCATGTATCTCCCTGGA[GA]ACATCCAGAAACACTGGCCAGTGTTGTGGGGAGAGTCTGGCAGCCATGCTCAGGAGAGCA dbg25099 7
27612 I S GAGCTCTTGGAATGCAAGCTTGTAAGCATGTGGTTT
27612 P T S CGCGCCGAGGATCCAAAACACAATTCTGGAY
27612 P C S ATGACGTGGCAGACGTCCAAAACACAATTCTGGY
27612 T T S TTACTCCAGAATTGTGTTTTGGATAACCACATGCTTACAAGCTTCCATTCCAAGAGCTCAA
27612 T C S TTACTCCAGAATTGTGTTTTGGACAACCACATGCTTACAAGCTTCCATTCCAAGAGCTCAA
27612 IS [TC] CCAACTGACCAGGAAGGCTCTGGGTATAAAGGATTATTTACTCCAGAATTGTGTTTTGGA[TC]AACCACATGCTTACAAGCTTCCATTCCAAGAGCTCAAACAACTCTGATGATTGACTGTGC
27653 I S AGTTCCAAACAATTTTTCTGCCCCCTAAAAACCTAGCATGAC
27653 P A S CGCGCCGAGGTCTTGCCTCATCTGGAAT

FIGURE 129F

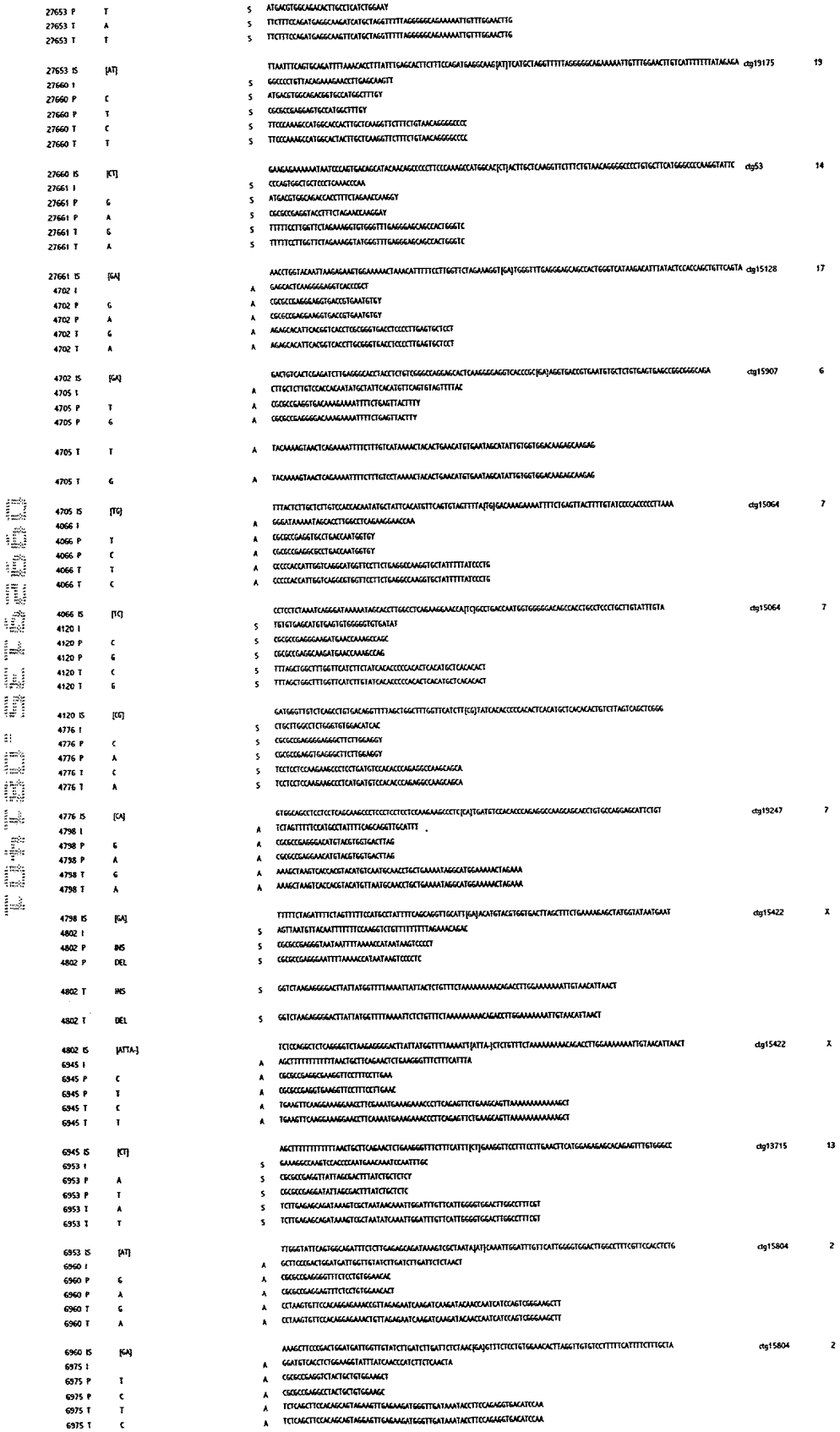
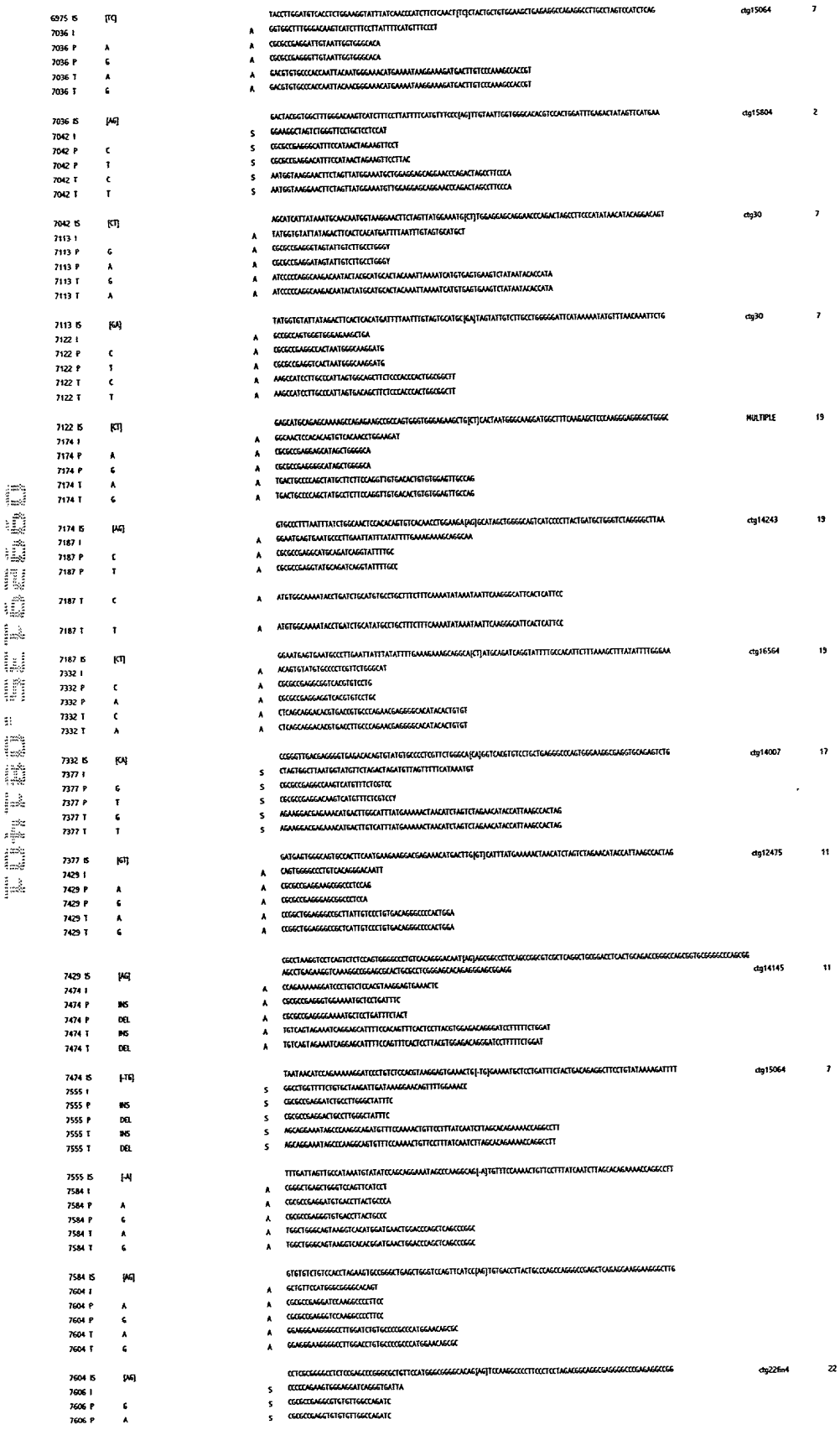
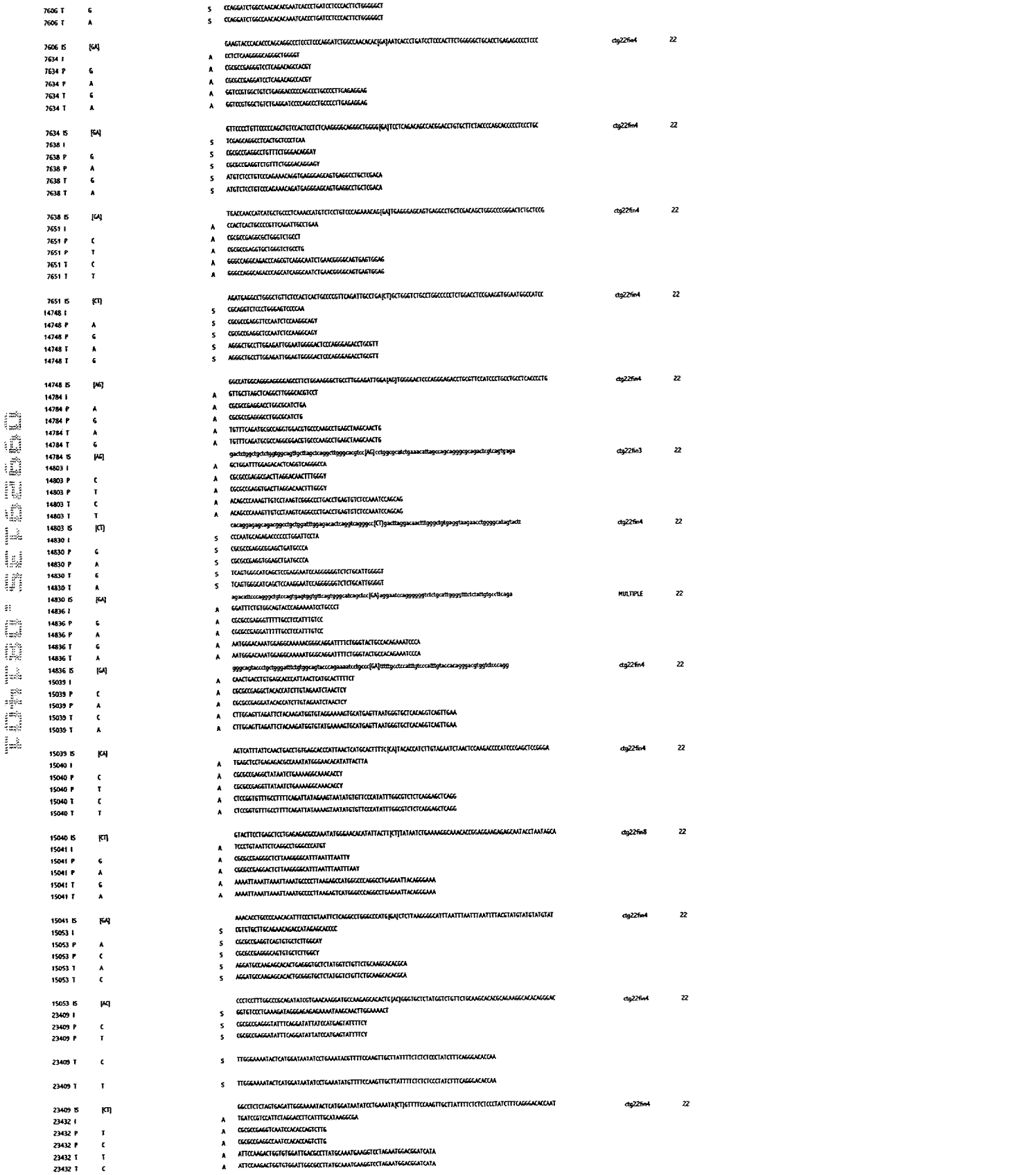

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FIGURE 129F



Confidential and Proprietary Information of Applera Corporation

FIGURE 129F



Sequence Listing Page 40 of 40 Application No: 10/... Version: 1.0

FIGURE 129F

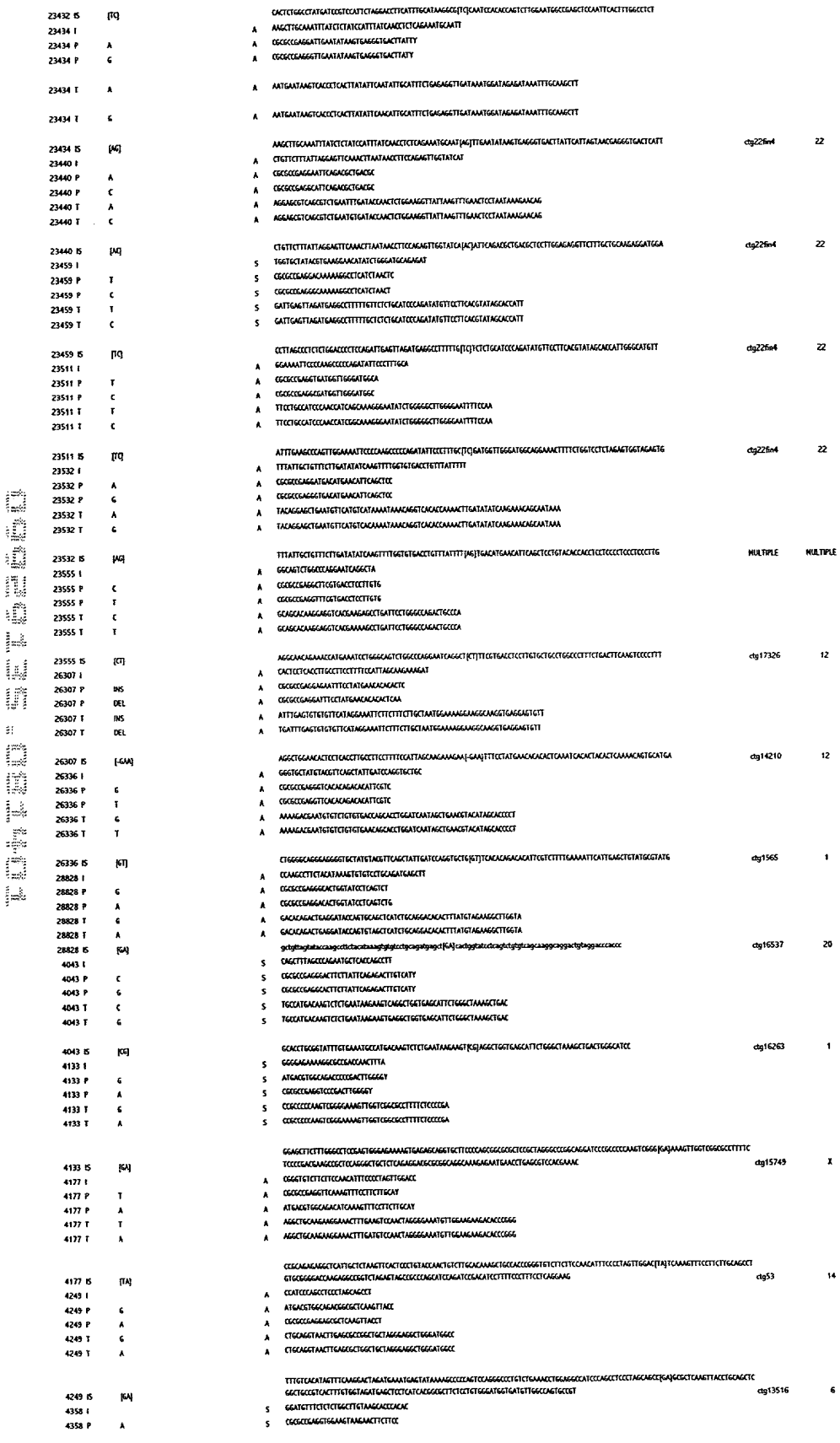


FIGURE 129F

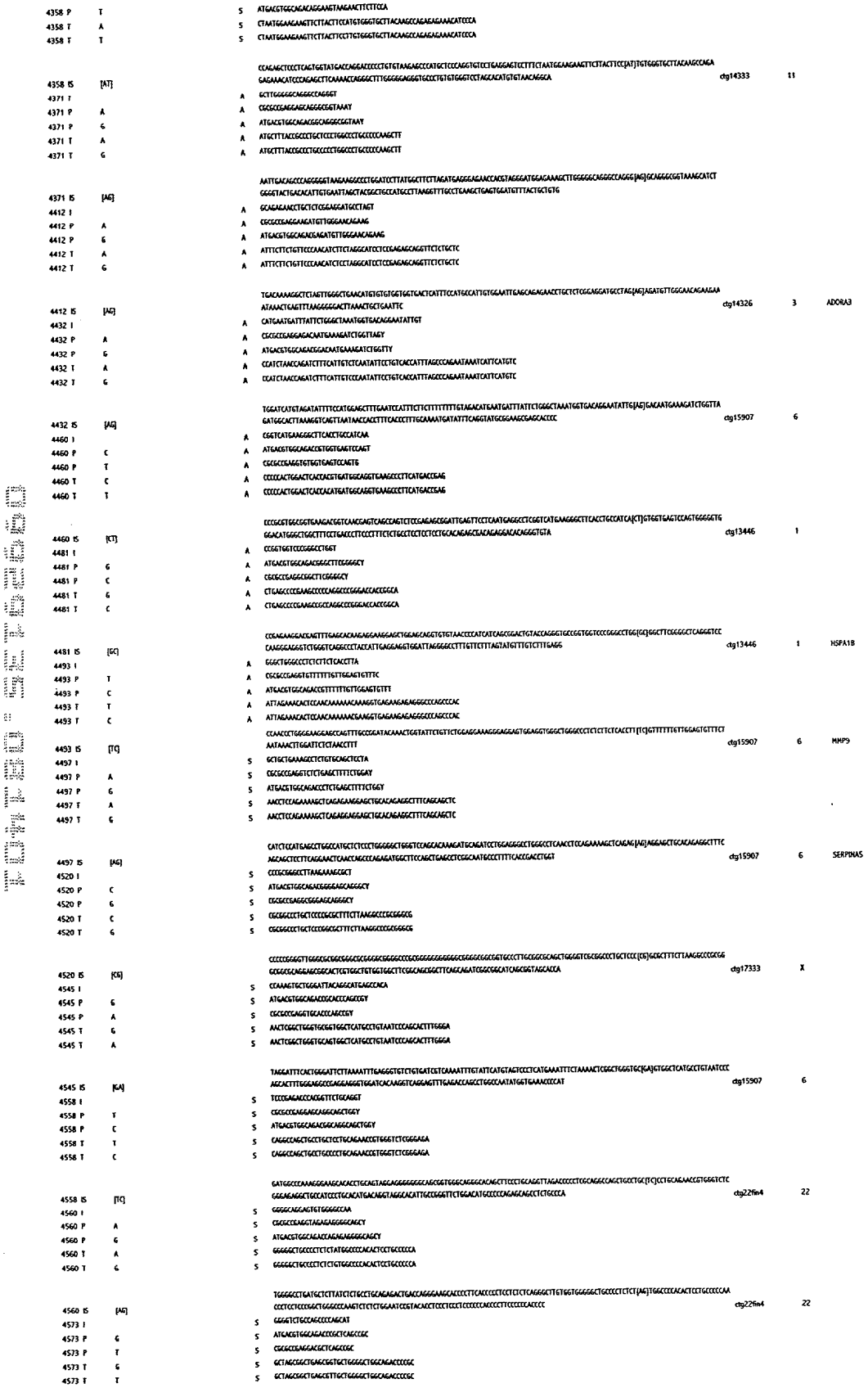

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FIGURE 129F

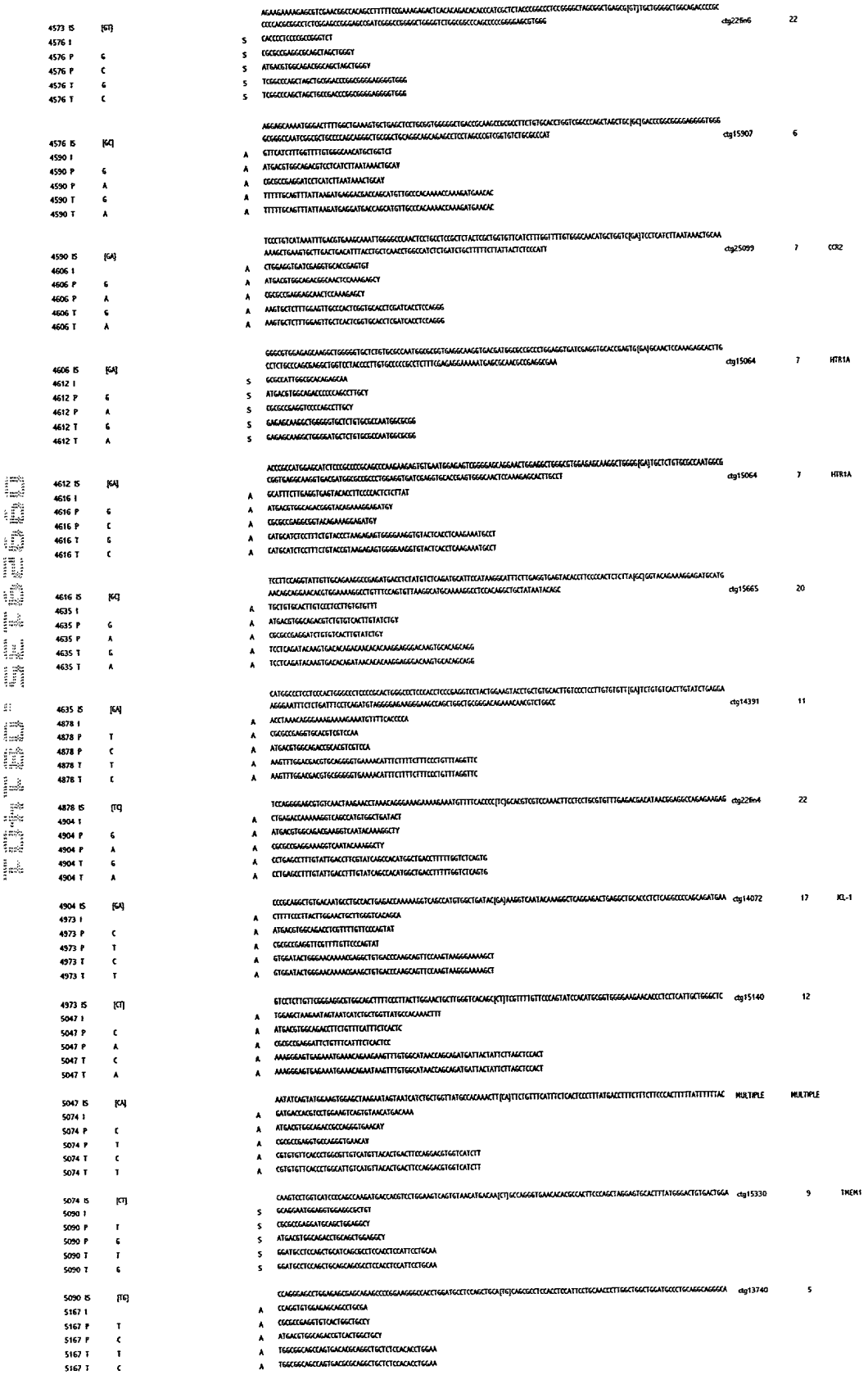

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FIGURE 129F

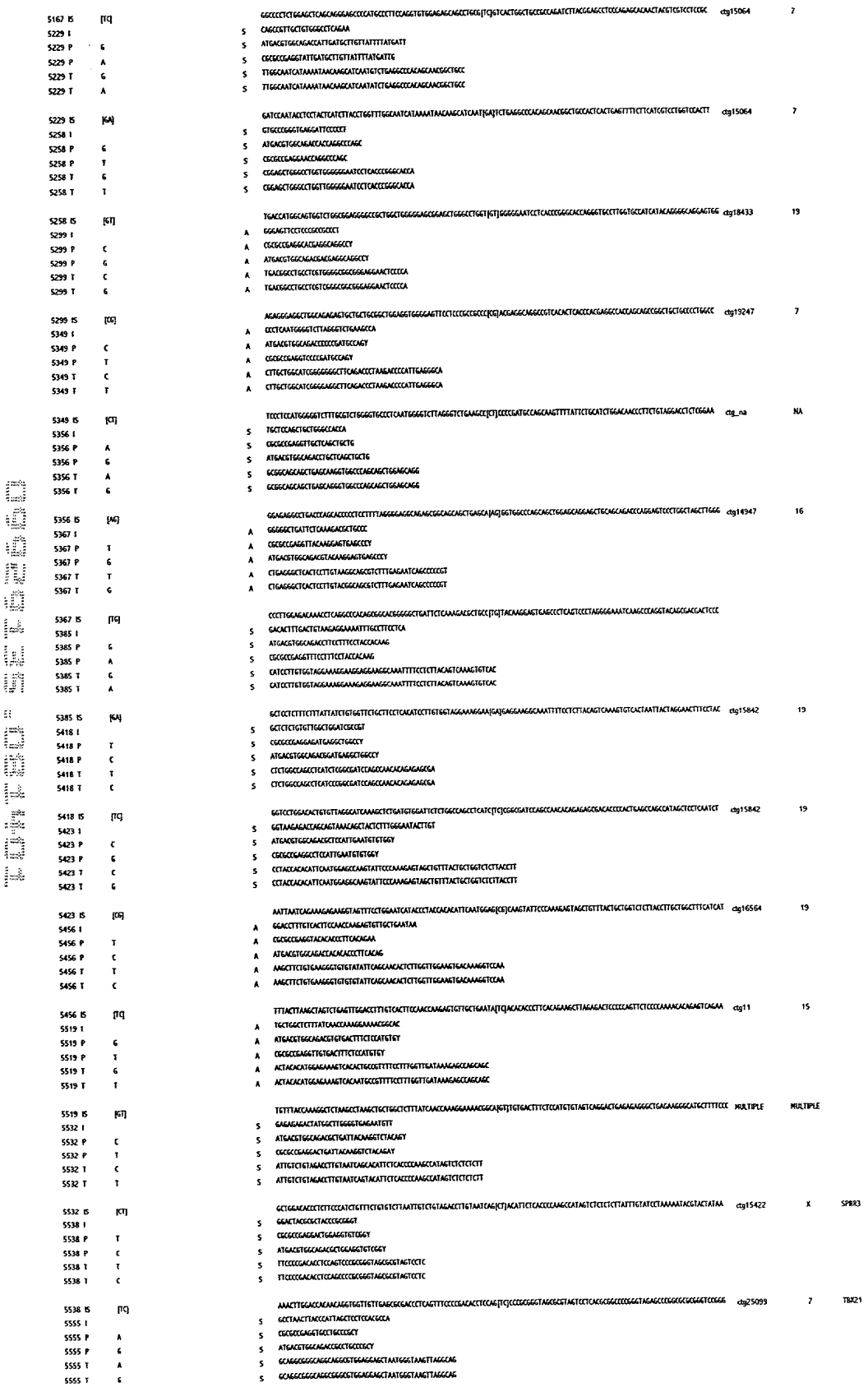

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5456 T C A AAGCTTCTGTGAAGGGTGTGTGTATTCAGCAACACTCTGGTTGGAAGTGACAAAGGTCCAA
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5555 P G S ATGACGTGGCAGACCGCCTGCCCGCY
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FIGURE 129F

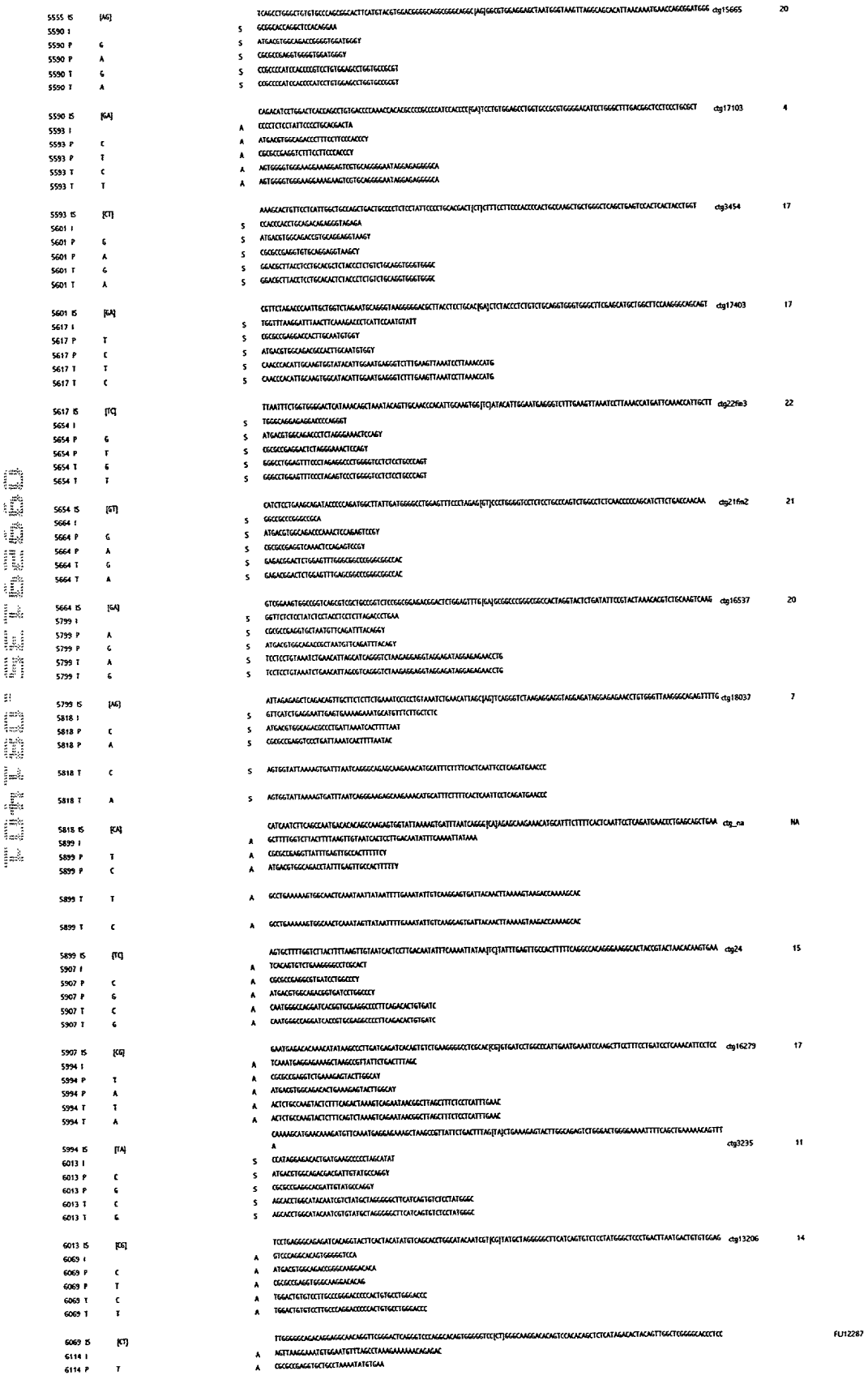


FIGURE 129F

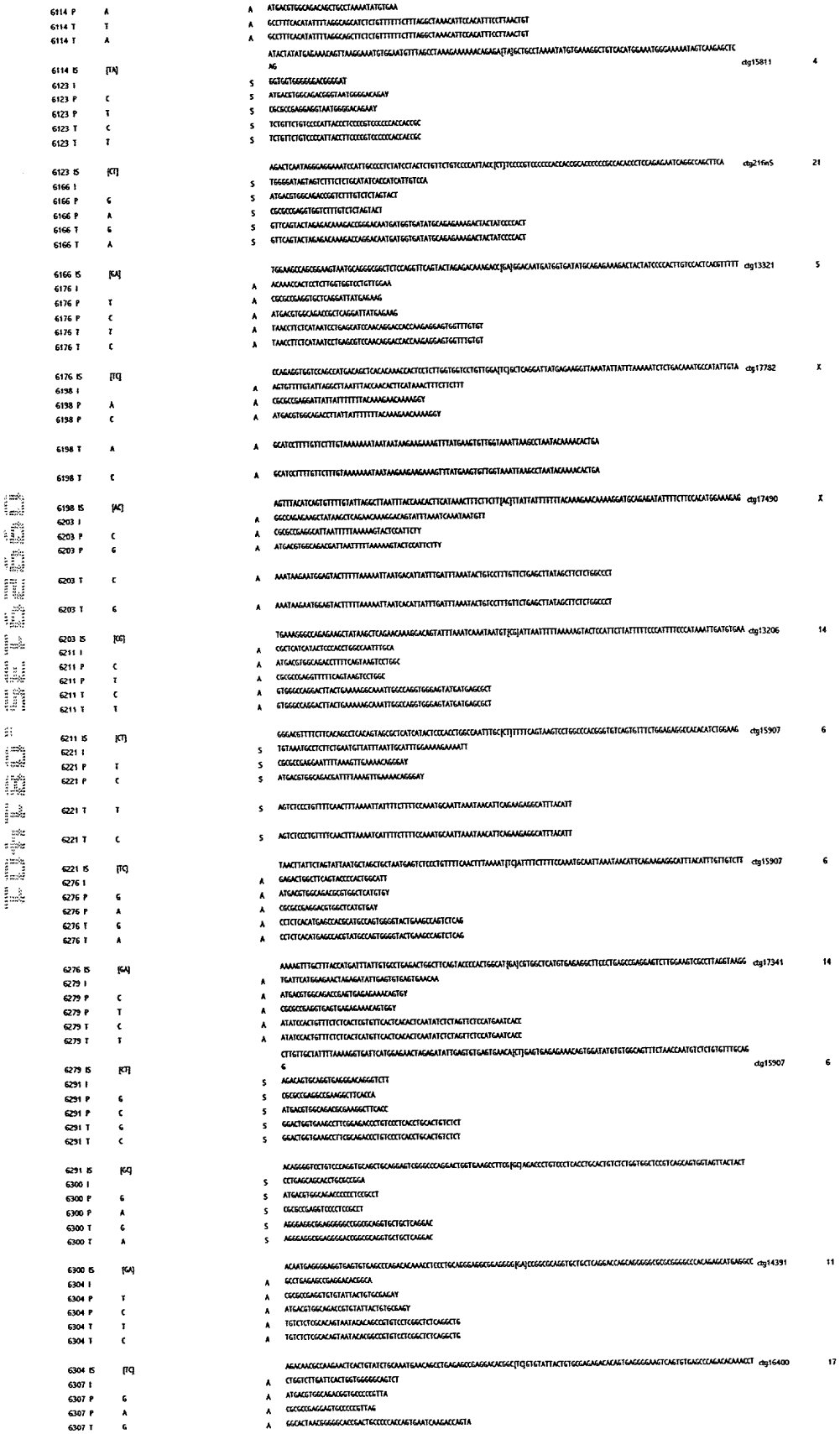


FIGURE 129F

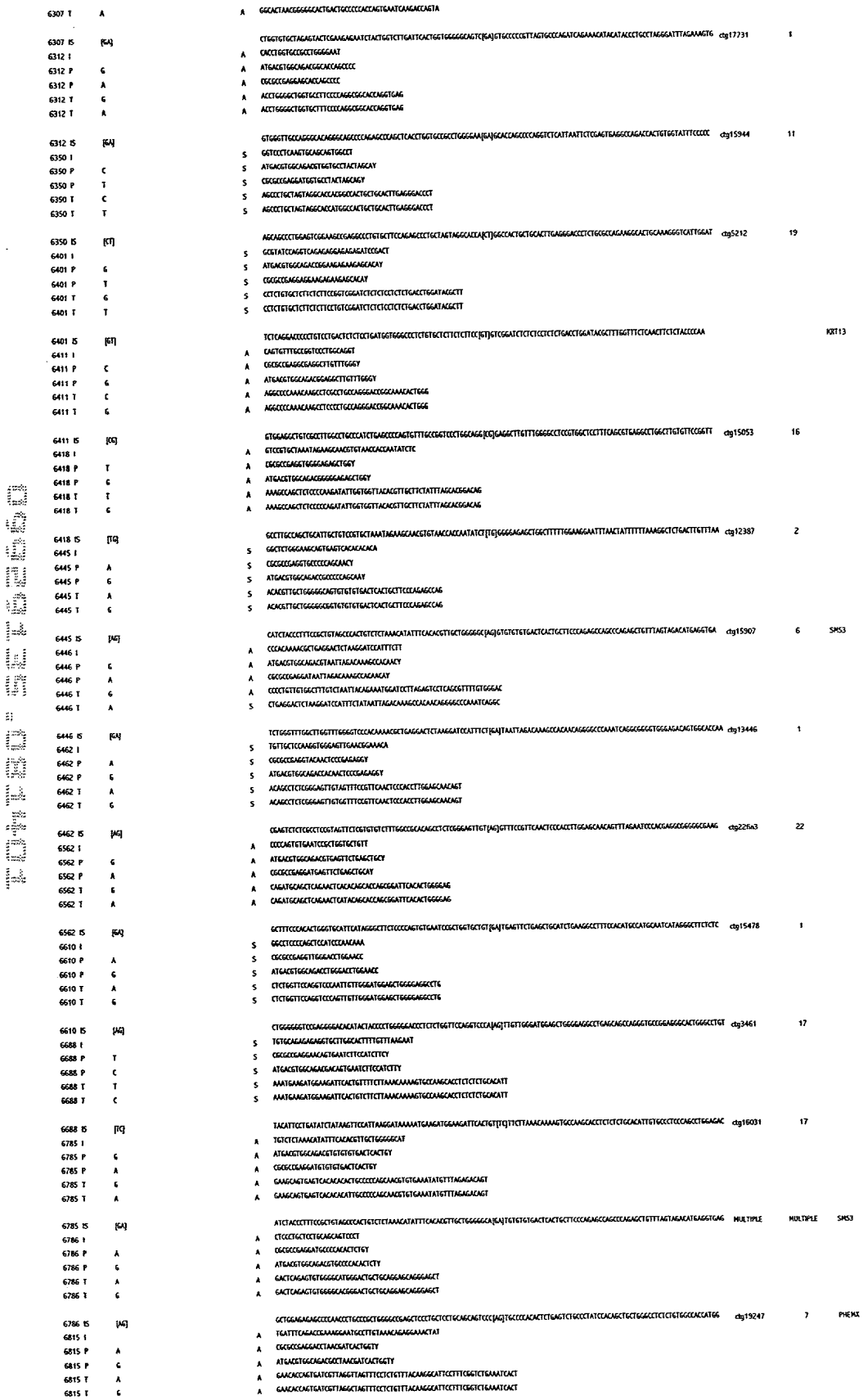

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6815 T G

FIGURE 129F

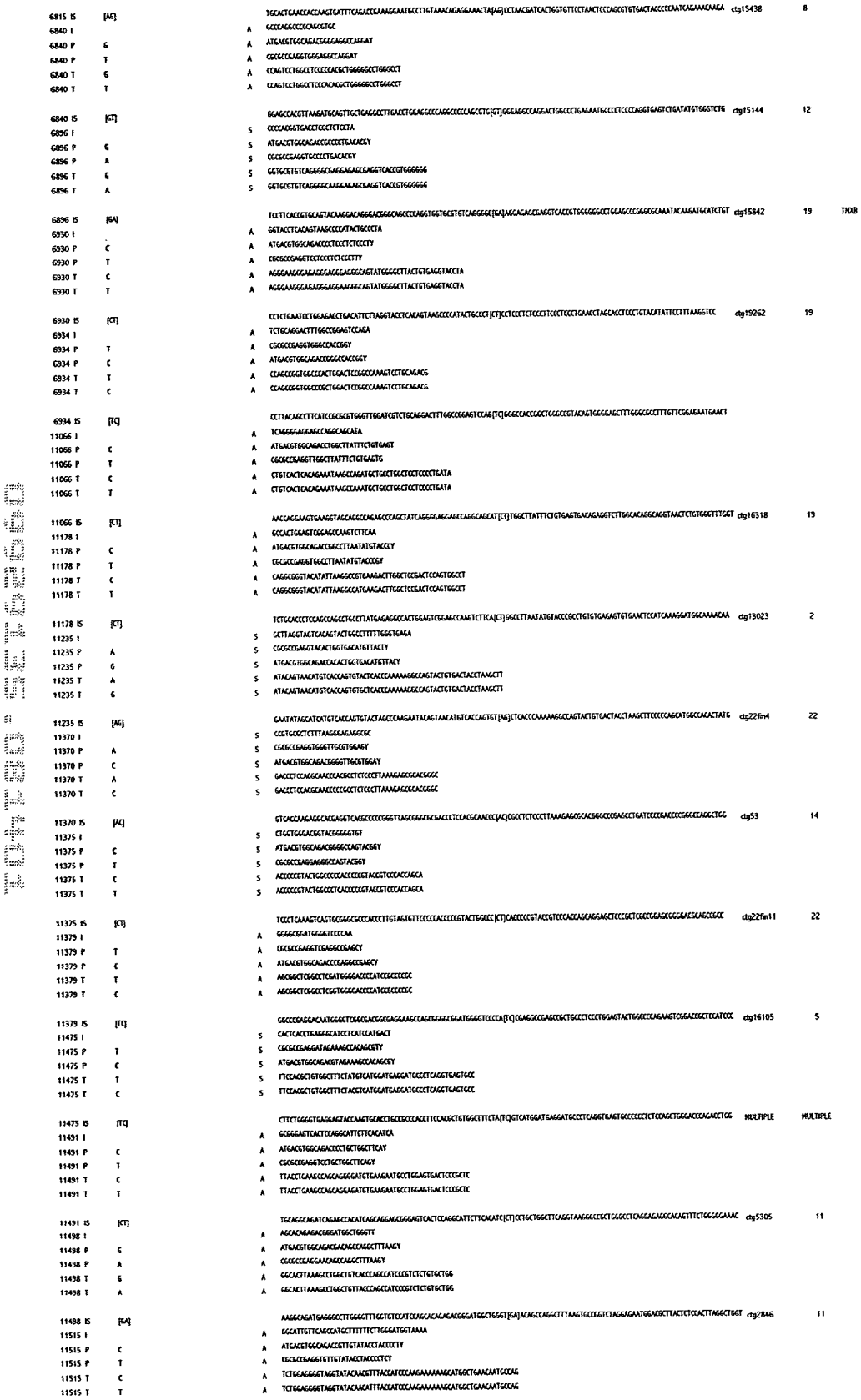


FIGURE 129F

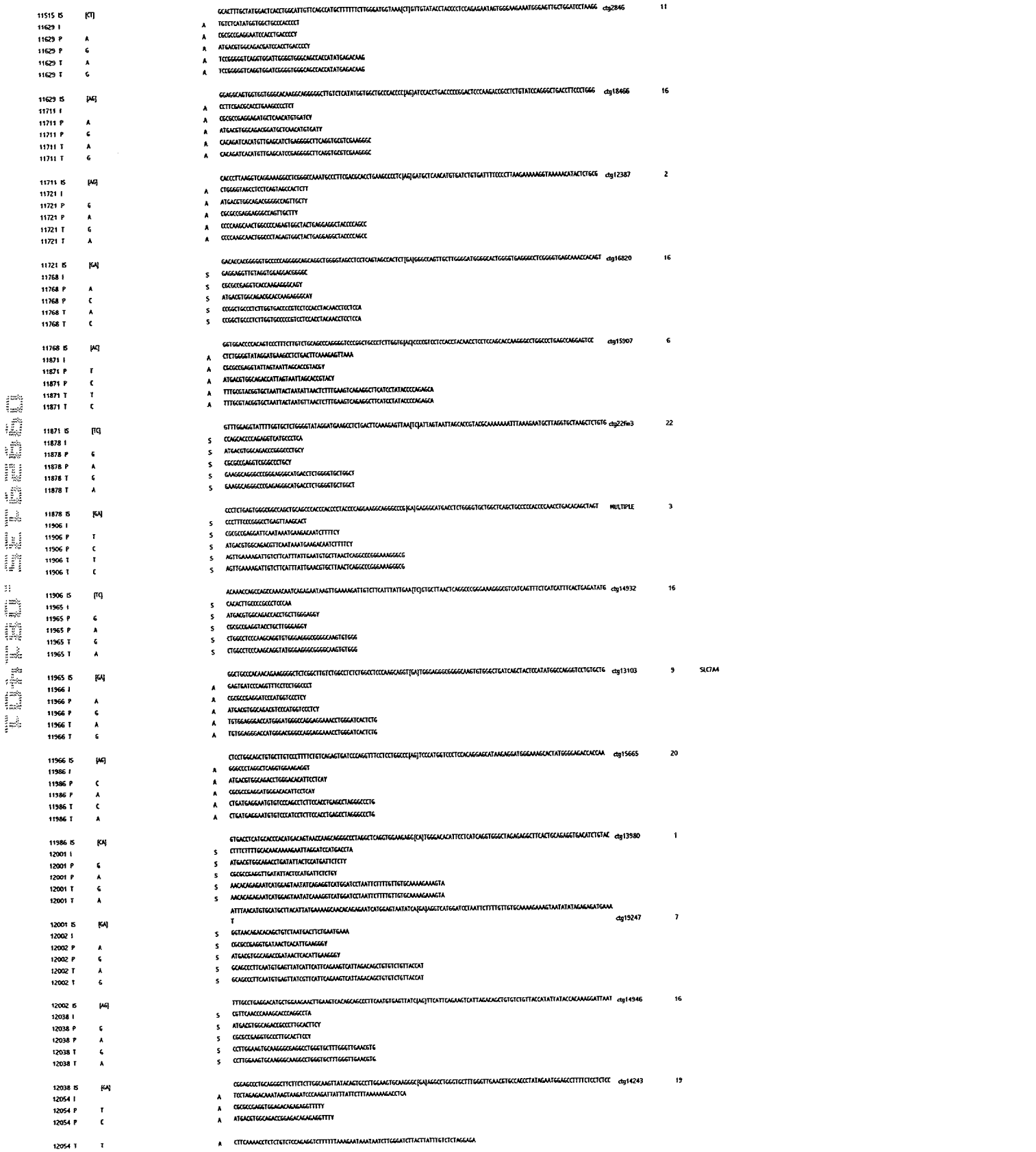

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FIGURE 129F

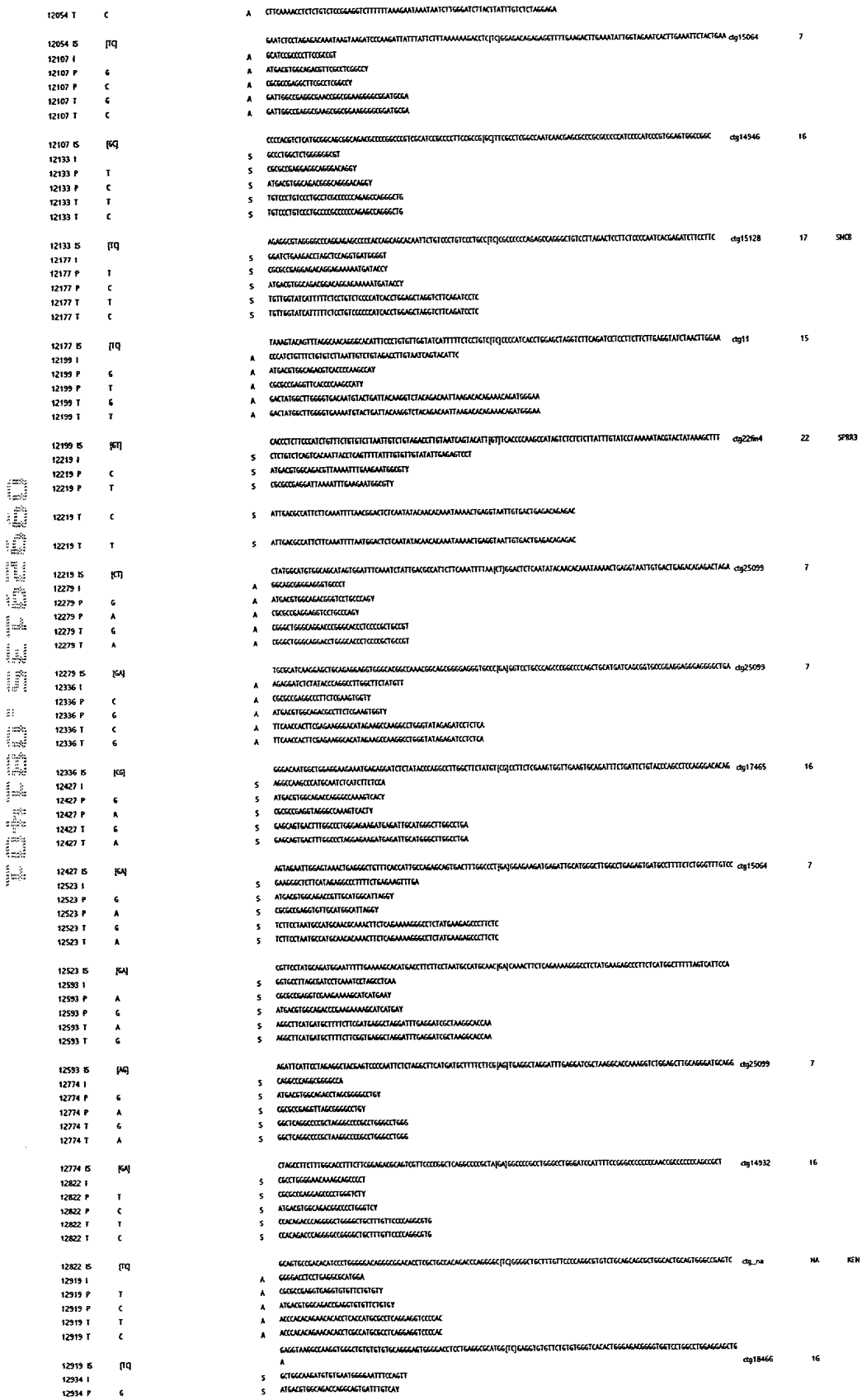
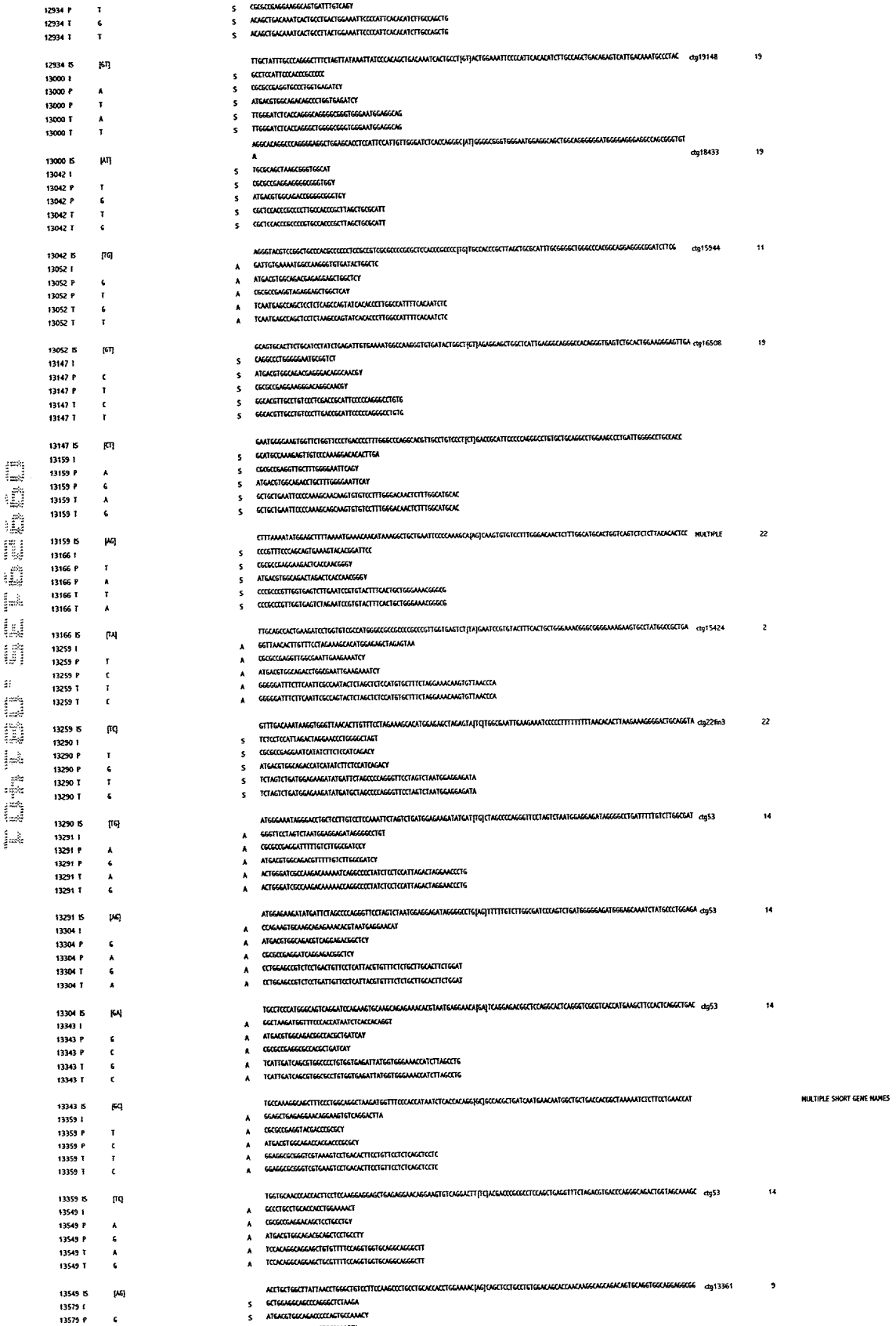
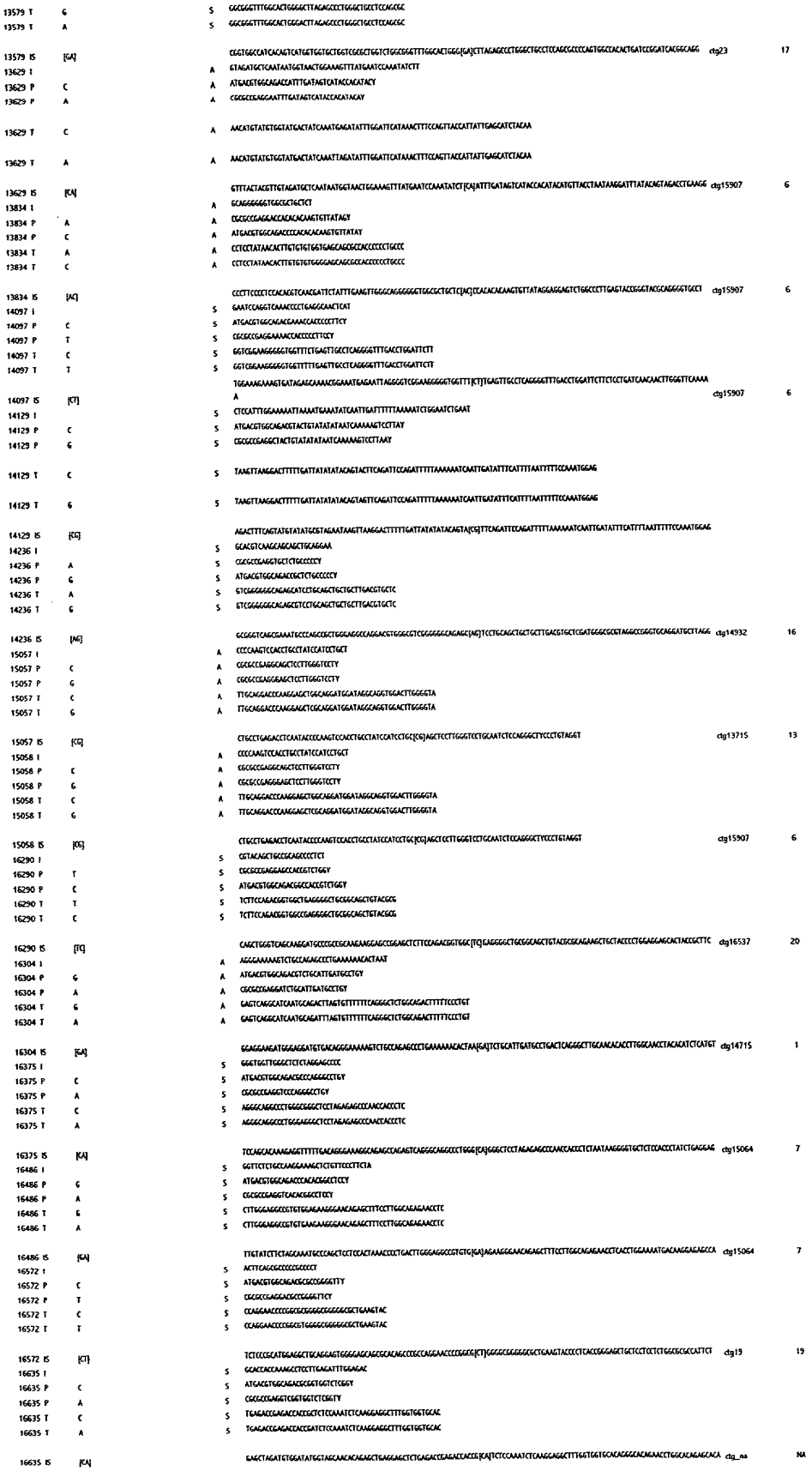


FIGURE 129F



Application No. 10/781,655 Attorney Docket No. 10020.0001.NPUS00

FIGURE 129F



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FIGURE 129F

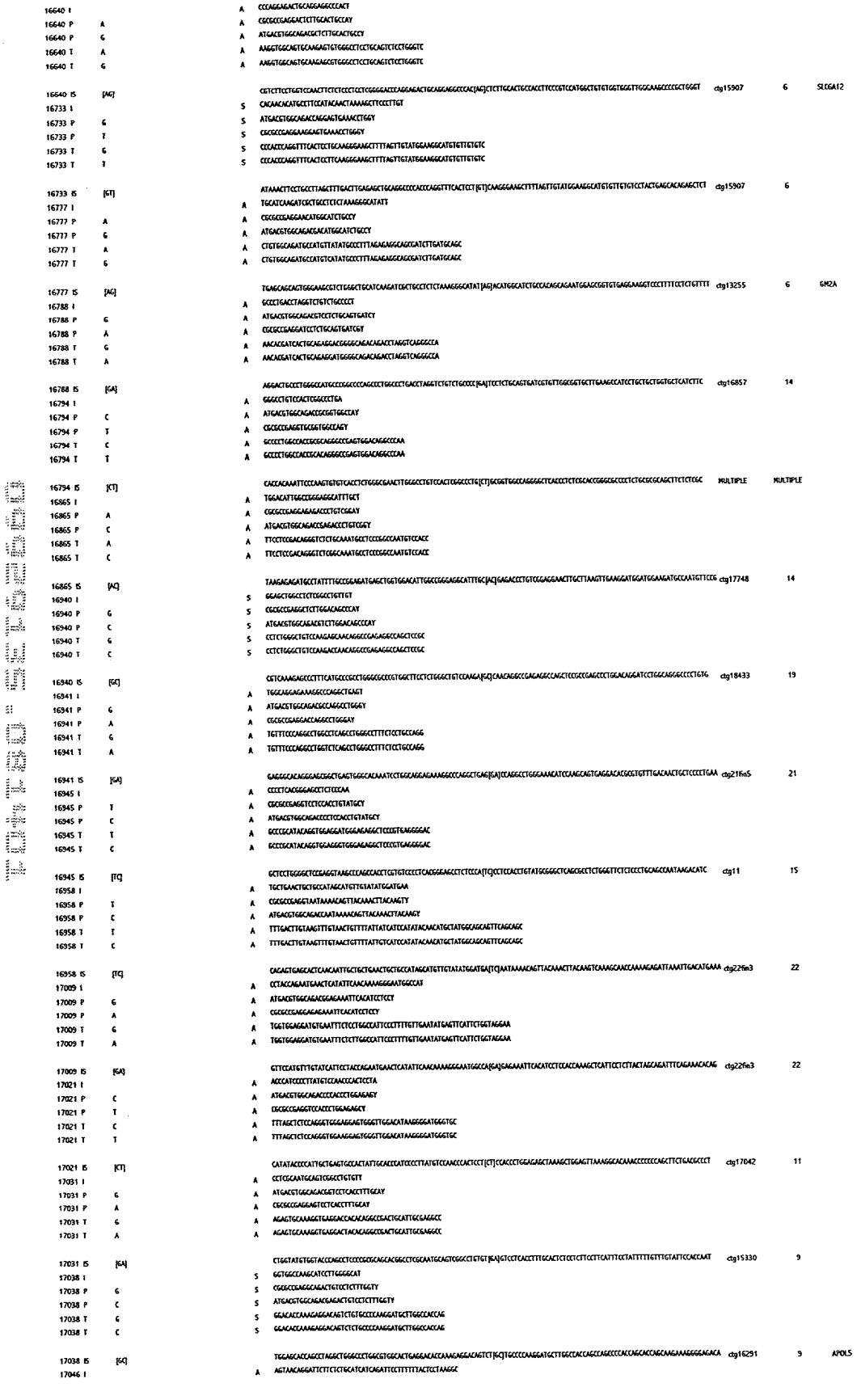


FIGURE 129F

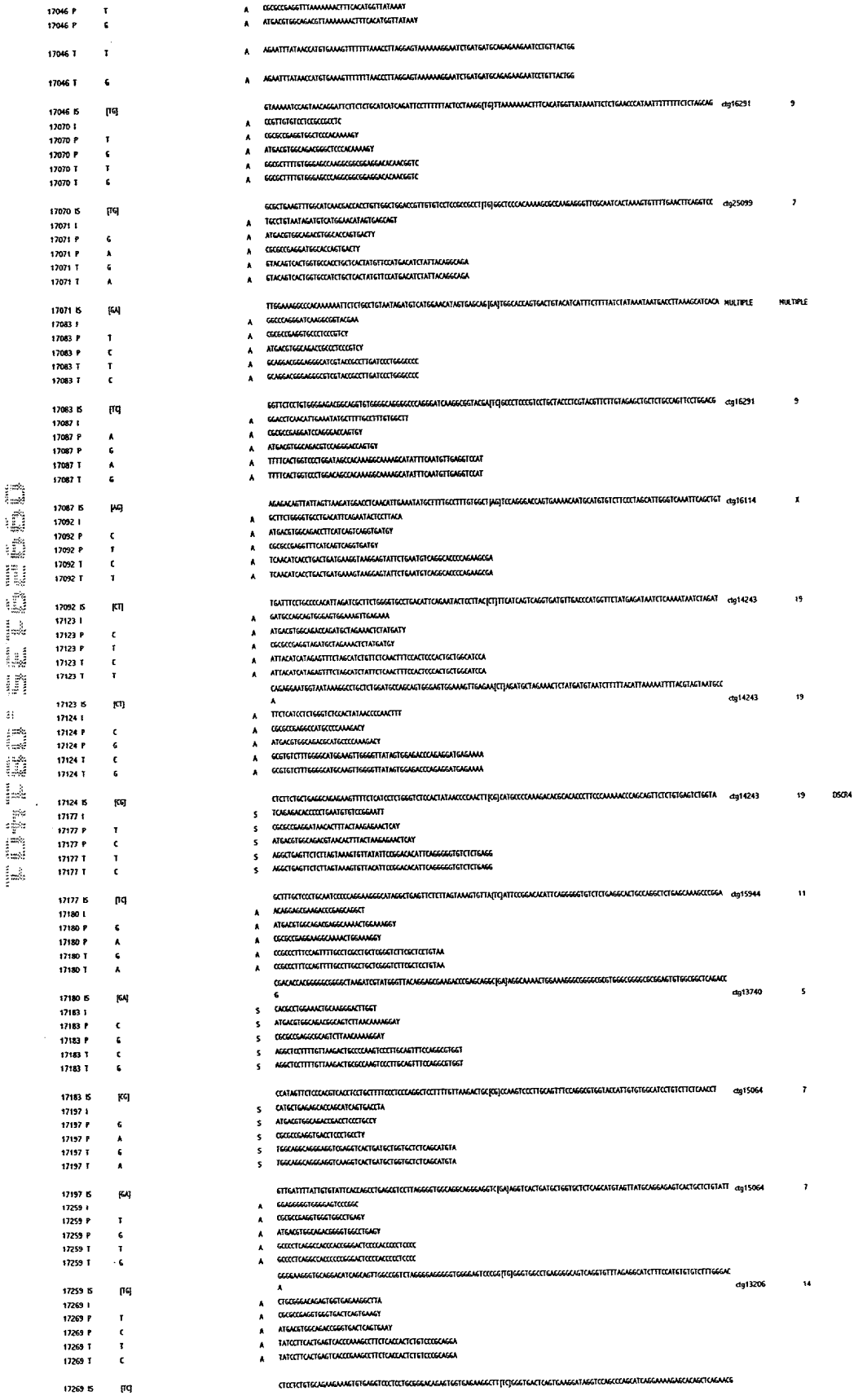
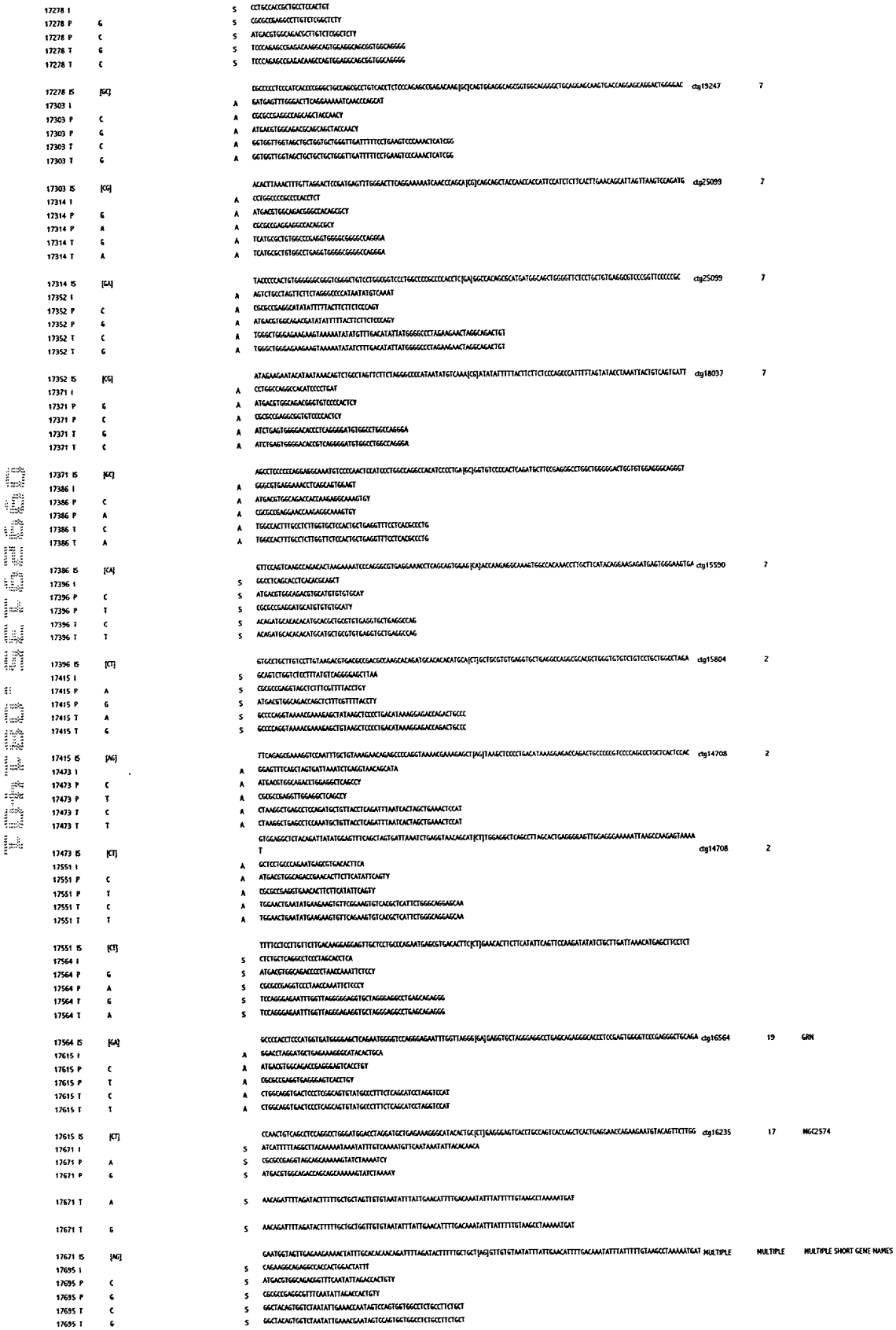


FIGURE 129F



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FIGURE 129F

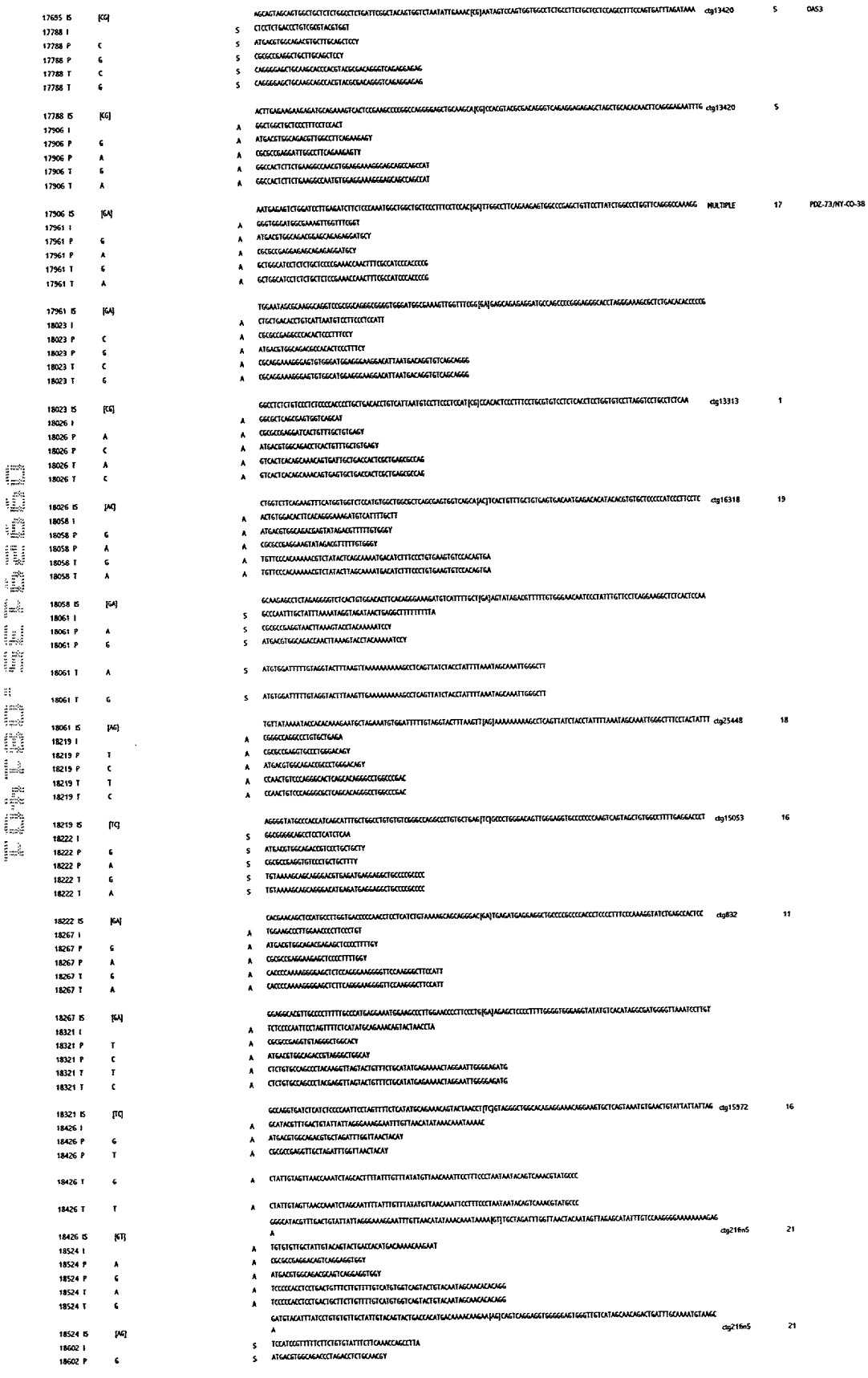

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18219 T T A CCAACTGTCCCAGGGCACTCAGCACAGGGCCTGGCCCGAC
18219 T C A CCAACTGTCCCAGGGGCTCAGCACAGGGCCTGGCCCGAC
18219 IS [TC] AGGGGTATGCCCACCATCAGCATTTGCTGGCCTGTGTGTCGGGCCAGGCCCTGTGCTGAG[TC]GCCCTGGGACAGTTGGGAGGTGCCCCCCAAGTCAGTAGCTGTGGCCTTTGAGGACCCT ctg15053 16
18222 I S GGCGGGGCAGCCTCCTCATCTCAA
18222 P G S ATGACGTGCCAGACCGTCCCTGCTGCTY
18222 P A S CGCGCCGAGGTGTCCCTGCTGCTTTY
18222 T G S TGTAAAAGCAGCAGGGACGTGAGATGAGGAGGCTGCCCCGCCCC
18222 T A S TGTAAAAGCAGCAGGGACATGAGATGAGGAGGCTGCCCCGCCCC
18222 IS [GA] CACGAACAGCTCCATGCCTTGGTGACCCCCAACCTCCTCATCTGTAAAAGCAGCAGGGAC[GA]TGAGATGAGGAGGCTGCCCCGCCCCAACCCTCCCCTTTCCCAAAGGTATCTGAGCCACTCC ctg832 11
18267 I A TGGAAGCCCTTGGAAACCCCTTCCCTGT
18267 P G A ATGACGTGGCAGACGAGAGCTCCCCTTTTGGY
18267 P A A CGCGCCGAGGAAGAGCTCCCCTTTTGGY
18267 T G A CACCCCAAAAGGGAAGCTCTCCAGGCAAGGGGTTCCAAGGGCTTCCATT
18267 T A A CACCCCAAAAGGGGAGCTCTTCAGGGAAGGGGTTCCAAGGGCTTCCATT
18267 IS [GA] GGAGGCACGTTGCCCCTTTTTGCCCATGAGGAAATGGAAGCCCTTGGAACCCCTTCCCTG[GA]AGAGCTCCCCTTTTGGGGTGGGAGGTATATGTCACATAGGCGATGGGGTTAAATCCTTGT
18321 I A TCTCCCCAATTCCTAGTTTTCTCATATGCAGAAACAGTACTAACCTA
18321 P T A CGCGCCGAGGTGTAGGGCTGGCACY
18321 P C A ATGACGTGGCAGACCGTAGGGCTGGCAY
18321 T T A CTCTGTGCCAGCCCTACAAGGTTAGTACTGTTTCTGCATATGAGAAAACTAGGAATTGGGGAGATG
18321 T C A CTCTGTGCCAGCCCTACAAGGTTAGTACTGTTTCTGCATATGAGAAAACTAGGAATTGGGGAGATG
18321 IS [TC] GCCAGGTGATCTCATCTCCCCAATTCCTAGTTTTCTCATATGCAGAAACAGTACTAACCT[TC]GTAGGGCTGGCACAGAGGAAACAGGAAGTGCTCAGTAAATGTGAACTGTATTATTATTAG ctg15972 16
18426 I A GCATACGTTTGACTGTATTATTAGGGAAAGGAATTTGTTAACATATAAACAAATAAAAC
18426 P G A ATGACGTGGCAGACGTGCTAGATTTGGTTAACTACAY
18426 P T A CGCGCCGAGGTTGCTAGATTTGGTTAACTACAY
18426 T G A CTATTGTAGTTAACCAAATCTAGCACTTTTATTTGTTTATATGTTAACAAATTCCTTTCCCTAATAATACAGTCAAACGTATGCCC
18426 T T A CTATTGTAGTTAACCAAATCTAGCAATTTTATTTGTTTATATGTTAACAAATTCCTTTCCCTAATAATACAGTCAAACGTATGCCC
18426 IS [GT] GGGGATACGTTTGACTGTATTATTAGGGAAAGGAATTTGTTAACATATAAACAAATAAAA[GT]TGCTAGATTTGGTTAACTACAATAGTTAGAGCATATTTGTCCAAGGGGAAAAAAAAGAG A ctg21fn5 21
18524 I A TGTGTGTTGCTATTGTACAGTACTGACCACATGACAAAACAAGAAT
18524 P A A CGCGCCGAGGACAGTCAGGAGGTGGY
18524 P G A ATGACGTGGCAGACGCAGTCAGGAGGTGGY
18524 T A A TCCCCCACCTCCTGACTGTTCCTTGTTTTGTCATGTGGTCAGTACTGTACAATAGCAACACACAGG
18524 T G A TCCCCCACCTCCTGACTGCTTCTTGTTTTGTCATGTGGTCAGTACTGTACAATAGCAACACACAGG
18524 IS [AG] GATGTACATTTATCGTGTGTGTTGCTATTGTACAGTACTGACCACATGACAAAACAAGAA[AG]CAGTCAGGAGGTGGGGGAGTGGGTTGTCATAGCAACAGACTGATTTGCAAAATGTAAGC A ctg21fn5 21
18602 I S TCCATCCGTTTTTCTTCTGTGTATTTCTTCAAACCAGCCTTA
18602 P G S ATGACGTGGCAGACCCTAGACCTCTGCAACGY

FIGURE 129F

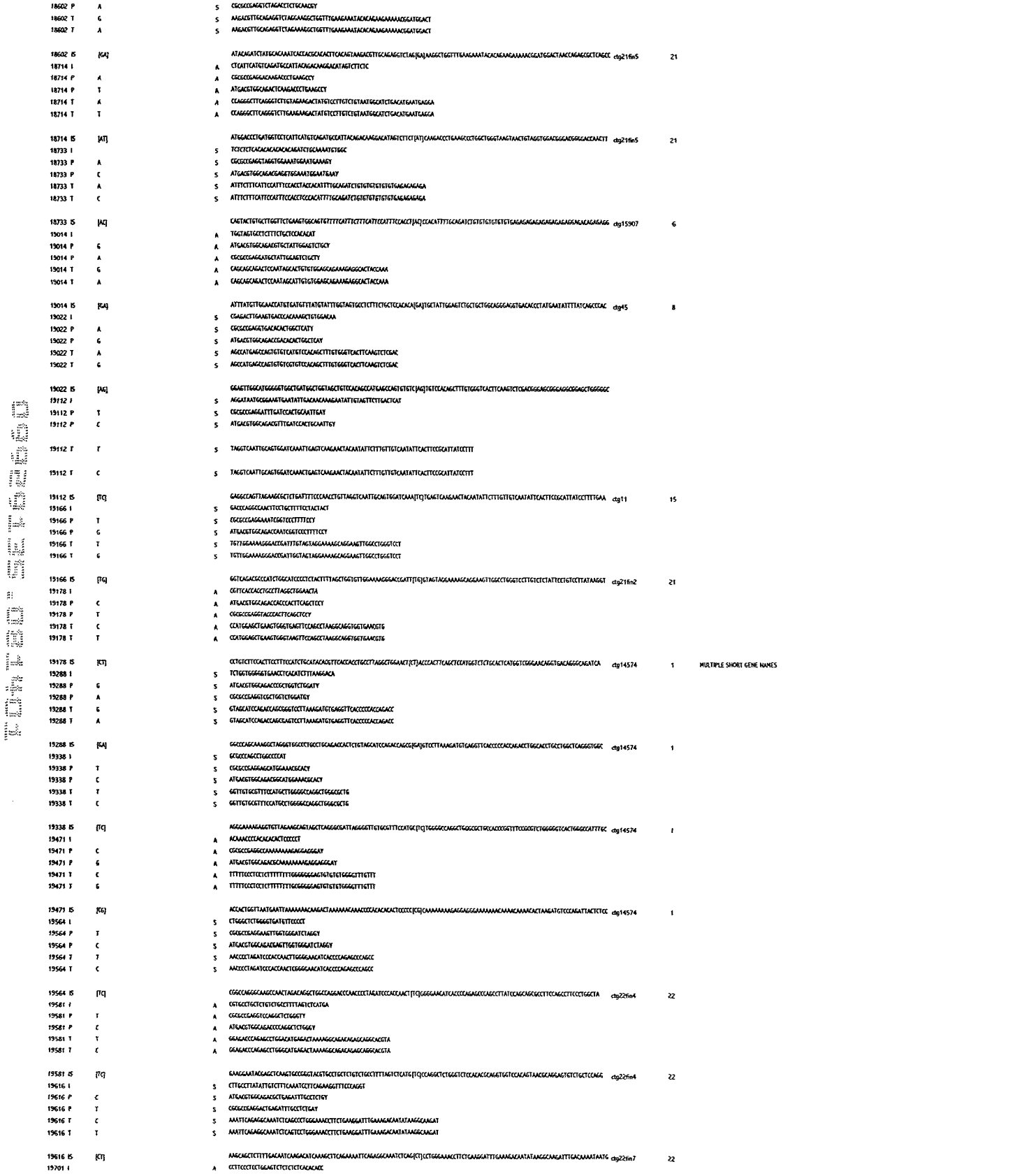

18602 P A S CGCGCCGAGGTCTAGACCTCTGCAACGY
18602 T G S AAGACGTTGCAGAGGTCTAGCAAGGCTGGTTTGAAGAAATACACACAGAAGAAAAACGGATGCACT
18602 T A S AAGACGTTGCAGAGGTCTAGCAAGGCTGGTTTGAAGAAATACACACAGAAGAAAACGGATGCACT
18602 IS [GA] ATACAGATCTATGCACACAATCACACACGCACACTTCACAGTAAGACGTTGCAGAGGTCTAG[GA]AAGGCTGGTTTGAAGAAATACACACAGAAGAAAACGGATGCACTAACCAGAGCGCTCAGCC ctg21fin5 21
18714 I A CTCATTCATGTCAGATGCCATTACAGACAAGACATAGTCTTCTC
18714 P A A CGCGCCGAGGACAAGACCCTCAAGCCY
18714 P T A ATGACGTGGCAGACTCAAGACCCTGAAGCCY
18714 T A A CCAGGGCTTCAGGGTCTTGTAGAAGACTATGTCCTTGTCTGTAATGGCATCTGACATGAATGAGGA
18714 T T A CCAGGGCTTCAGGGTCTTGAAGAAGACTATGTCCTTGTCTGTAATGGCATCTGACATGAATGAGGA
18714 IS [AT] ATGGACCCTGATGGTCCTCATTCATGTCAGATGCCATTACAGACAAGGACATAGTCTTCT[AT]CAAGACCCTGAAGCCCTGGCTGGGTAAGTAACTGTAGGTGGACGGGACGGGACCAACTT ctg21fin5 21
18733 I S TCTCTCTCACACACACACACGATCTGCAAATGTGGC
18733 P A S CGCGCCGAGGTAGGTGGAAATGGAATGAAAGY
18733 P C S ATGACGTGGCAGACGAGGTGGAAATGGAATGAAY
18733 T A S ATTTCTTTCATTCCATTTCCACCTACACACATTTGGCAGATCTGTGTGTGTGTGTGAGAGAGAGA
18733 T C S ATTTCTTTCATTCCATTTCCACCTCCCACATTTGGCAGATCTGTGTGTGTGTGAGAGAGAGA
18733 IS [AC] CAGTACTGTGCTTGGTTCTGAAGTGGCAGTGTTTTCATTTCTTTCATTCCATTTCCACCT[AC]CCACATTTTGCAGATCTGTGTGTGTGTGTGAGAGAGAGAGAGAGAGAGAGAGAGAGAG ctg15907 6
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19014 P G A ATGACGTGGCAGACGTGCTATTGGAGTCTGCY
19014 P A A CGCGCCGAGGATGCTATTGGAGTCTGCTY
19014 T G A CAGCAGCAGACTCCAATAGCACTGTGTGGAGCAGAAAGAGGCACTACCAAA
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19022 P G S ATGACGTGGCAGACCGACACACTGGCTCAY
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19022 T G S AGCCATGAGCCAGTGTGTCGTGTCCACAGCTTTGTGGGTCACTTCAAGTCTCGAC
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19112 P T S CGCGCCGAGGAATTTGATCCACTGCAATTGAY
19112 P C S ATGACGTGGCAGACGTTTGATCCACTGCAATTGY
19112 T T S TAGGTCAATTGCAGTGGATCAAATTGAGTCAAGAACTACAATATTCTTTGTTGTCAATATTCACTTCCGCATTATCCTTT
19112 T C S TAGGTCAATTGCAGTGGATCAAACTGAGTCAAGAACTACAATATTCTTTGTTGTCAATATTCACTTCCGCATTATCCTTT
19112 IS [TC] GAGGCCAGTTAGAAGGCTCTGATTTTCCCAACCTGTTAGGTCAATTGCAGTGGATCAAA[TC]TGTAGTCAAGAACTACAATATTCTTTGTTGTCAATATTCACTTCCGCATTATCCTTTTGAA ctg11 15
19166 I S GACCCAGGCCAACTTCCTGCTTTTCCTACTACT
19166 P T S CGCGCCGAGGAAATCCGCTCCCTTTTCCY
19166 P G S ATGACGTGGCAGACCAATCCGCTCCCTTTTCCY
19166 T T S TGTTGGAAAAGGGAACCGATTGTAGTAGGAAAAGCAGGAAGTTGGCCTGGGTCCT
19166 T G S TGTTGGAAAAGGGAACCGATTGGTAGTAGGAAAAGCAGGAAGTTGGCCTGGGTCCT
19166 IS [TG] GGTCAGACGCCCATCTGGCATCCCCTCACTTTTAGCTGGTGTTGGAAAGGGACCGATT[TG]GTAGTAGGAAAAGCAGGAAGTTGGCCTGGGTCCTTGTCTCTATTCCTGTCCTTATAAGGT ctg21fin2 21
19178 I A CGTTCACCACCTGCCTTAGGCTGGAACTA
19178 P C A ATGACGTGGCAGACCACCCACTTCAGCTCCY
19178 P T A CGCGCCGAGGTACCCACTTCAGCTCCY
19178 T C A CCATGGAGCTGAAGTGGGTGAGTTCCAGCCTAAGGCAGGTGGTGAAGGTG
19178 T T A CCATGGAGCTGAAGTGGGTAAGTTCCAGCCTAAGGCAGGTGGTGAAGGTG
19178 IS [CT] CCTGTCTTCCACTTCCTTTCCATCTGCATACACGTTCACCAACCTGCCTTAGGCTGGAACT[CT]ACCCACTTCAGCTCCATGGTCTCTGCACTCATGGTCGGGAACAGGTGACAGGGCAGATCA ctg14574 1 MULTIPLE SHORT GENE NAMES
19288 I S TCTGGTGGGGGTGAACCTCACATCTTTAAGGACA
19288 P G S ATGACGTGGCAGACCCGCTGGTCTGGATY
19288 P A S CGCGCCGAGGTCGCTGGTCTGGATGY
19288 T G S GTAGCATCCAGACCAGCGGGTCCTTAAAGATGTGAGGTTCACCCCCACCAGACC
19288 T A S GTAGCATCCAGACCAGCGAGTCCTTAAAGATGTGAGGTTCACCCCCACCAGACC
19288 IS [GA] GGCCCAGCAAAGGCTAGGGTGGCCCTGCCTGCACAGCACCACTCTGTAGCATCCAGACCAGCG[GA]GTCCTTAAAGATGTGAGGTTCACCCCCACCAGACCTGGCACCTGCCTGGCTCAGGGTGGC ctg14574 1
19338 I S GCGCCCAGCCTGGCCCCAT
19338 P T S CGCGCCGAGGAGCATGGAAACGCACY
19338 P C S ATGACGTGGCAGACGGCATGGAAACGCACY
19338 T T S GGTTGTGCGTTTCCATGCTTGGGGCCAGGCTGGGCGCTG
19338 T C S GGTTGTGCGTTTCCATGCCTGGGGCCAGGCTGGGCGCTG
19338 IS [TC] AGGCAAAAGAGGTGTTAGAAGCAGTAGCTCAGGGCGATTAGGGGTTGTGCGTTTCCATGC[TC]TGGGGCCAGGCTGGGCGCTGCCACCCCGTTTCCGCGTCTGGGGGTCACTGGGCCATTTGC ctg14574 1
19471 I A ACAACCCCACACACACTCCCCCT
19471 P C A CGCGCCGAGGCCAAAAAAAGAGGAGGGAY
19471 P G A ATGACGTGGCAGACGCAAAAAAAGAGGAGGGAY
19471 T C A TTTTTCCCTCCTCTTTTTTTGGGGGGGAGTGTGTGTGGGGTTTGTTT
19471 T G A TTTTTCCCTCCTCTTTTTTTGCGGGGGGAGTGTGTGTGGGGTTTGTTT
19471 IS [CG] ACCACTGGTTAATGAATTAAAAAACAAGACTAAAAACAAACCCCACACACACTCCCCC[CG]CAAAAAAAGAGAGAGGGAAAAAAACAAACAAAACACTAAGATGTCCCAGATTACTCTCC ctg14574 1
19564 I S CTGGGCTCTGGGGTGATGTTCCCCT
19564 P T S CGCGCCGAGGAAGTTGGTGGGATCTAGGY
19564 P C S ATGACGTGGCAGACGAGTTGGTGGGATCTAGGY
19564 T T S AACCCCTAGATCCCACCAACTTGGGGAACATCACCCCAGAGCCCAGCC
19564 T C S AACCCCTAGATCCCACCAACTCGGGGAACATCACCCCAGAGCCCAGCC
19564 IS [TC] CGGCCAGGGCAAGCCAACTAGACAGGCTGGCCAGGACCCAACCCCTAGATCCCACCAACT[TC]GGGGAACATCACCCCAGAGCCCAGCCTTATCCAGCAGCGCCTTCCAGCCTTCCCTGGCTA ctg22fin4 22
19581 I A CGTGCCTGCTCTGTCTGCCTTTTAGTCTCATGA
19581 P T A CGCGCCGAGGTCCAGGCTCTGGGTY
19581 P C A ATGACGTGGCAGACCCCAGGCTCTGGGY
19581 T T A GGAGACCCAGAGCCTGGGCATGAGACTAAAAGGCAGACAGAGCAGGCAGGCACGTA
19581 T C A GGAGACCCAGAGCCTGGGCATGAGACTAAAAGGCAGACAGAGCAGGCAGGCACGTA
19581 IS [TC] GAAGGAATACGAGCTCAAGTGCCGGTACGTGCCTGCTCTGTCTGCCTTTTAGTCTCATG[TC]CCAGGCTCTGGGTCTCCACACCGCAGGTGGTCCACAGTAACGCAGGAGTGCTCGCTCCAGG ctg22fin4 22
19616 I S CTTGCCTATATTGTCTTTCAAATCCTTCAGAAGGTTTCCCAGGT
19616 P C S ATGACGTGGCAGACGCTGAGATTTGCCTCTGY
19616 P T S CGCGCCGAGGACTGAGATTTGCCTCTGAY
19616 T C S AAATTCAGAGGCAAATCTCAGCCCTGGGAAACCTTCTGAAGGATTTGAAAGACAATATAAGGCAAGAT
19616 T T S AAATTCAGAGGCAAATCTCAGTCCTGGGAAACCTTCTGAAGGATTTGAAAGACAATATAAGGCAAGAT
19616 IS [CT] AAGCAGCTCTTTTGACAATCAGACATCAAAGCTTCAGAAAATTCAGAGGCAAATCTCAG[CT]CCTGGGAAACCTTCTGAAGGATTTGAAAGACAATATAAGGCAAGATTTGACAAAATAATG ctg22fin7 22
19701 I A CCTTCCCTCCTGGAGTCTCTCTCTCACACACC

FIGURE 129F

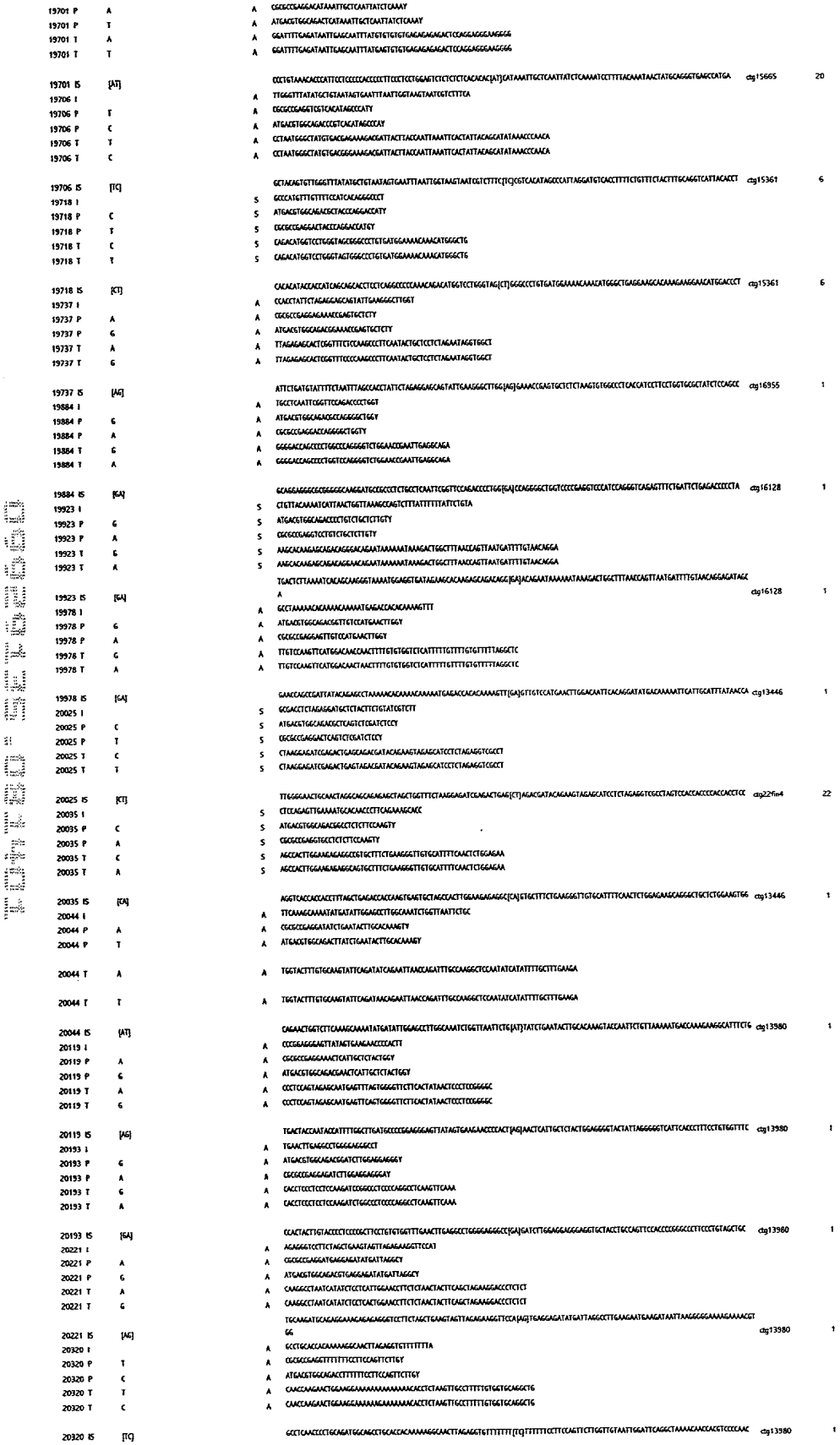
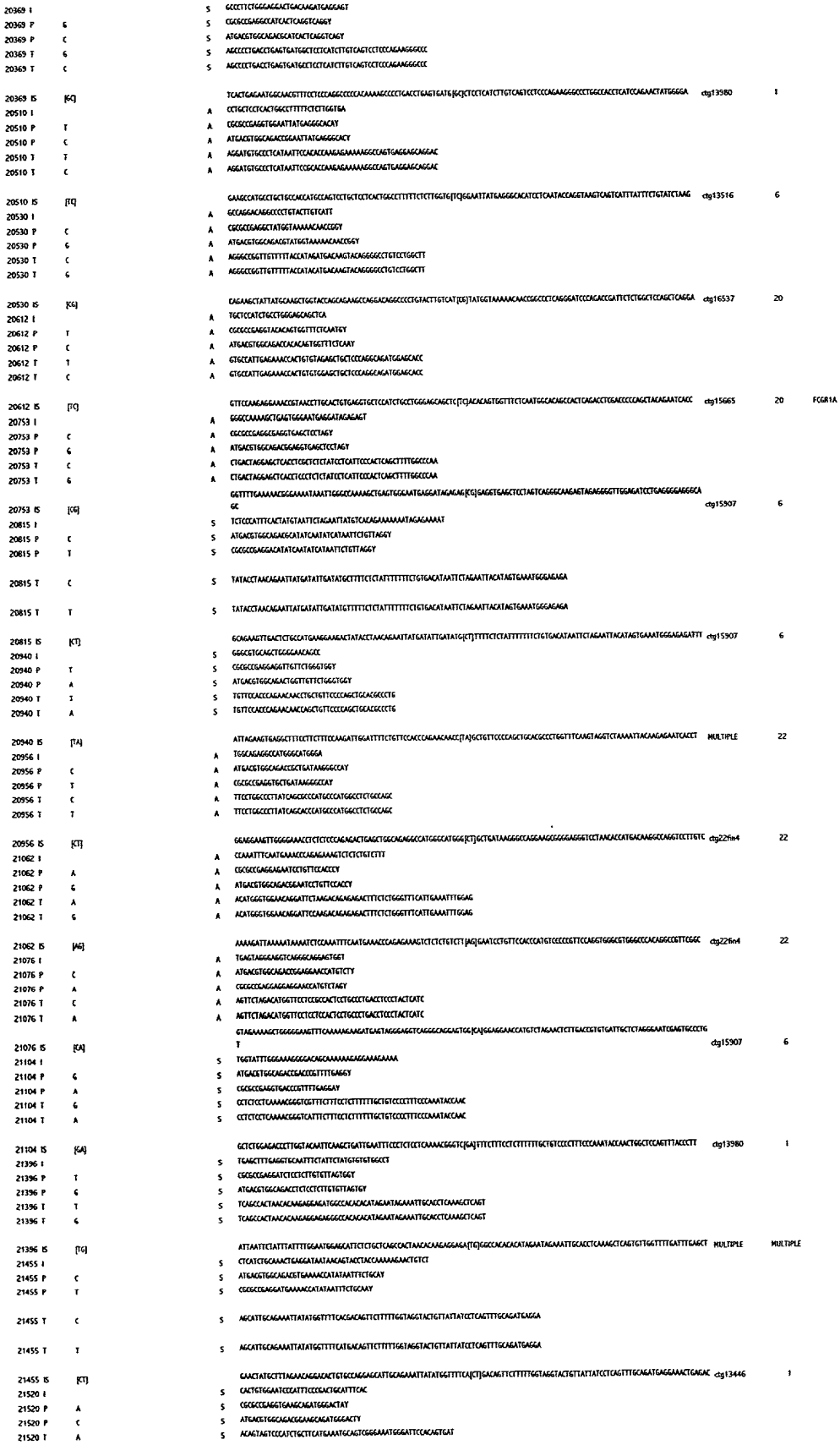


FIGURE 129F



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FIGURE 129F

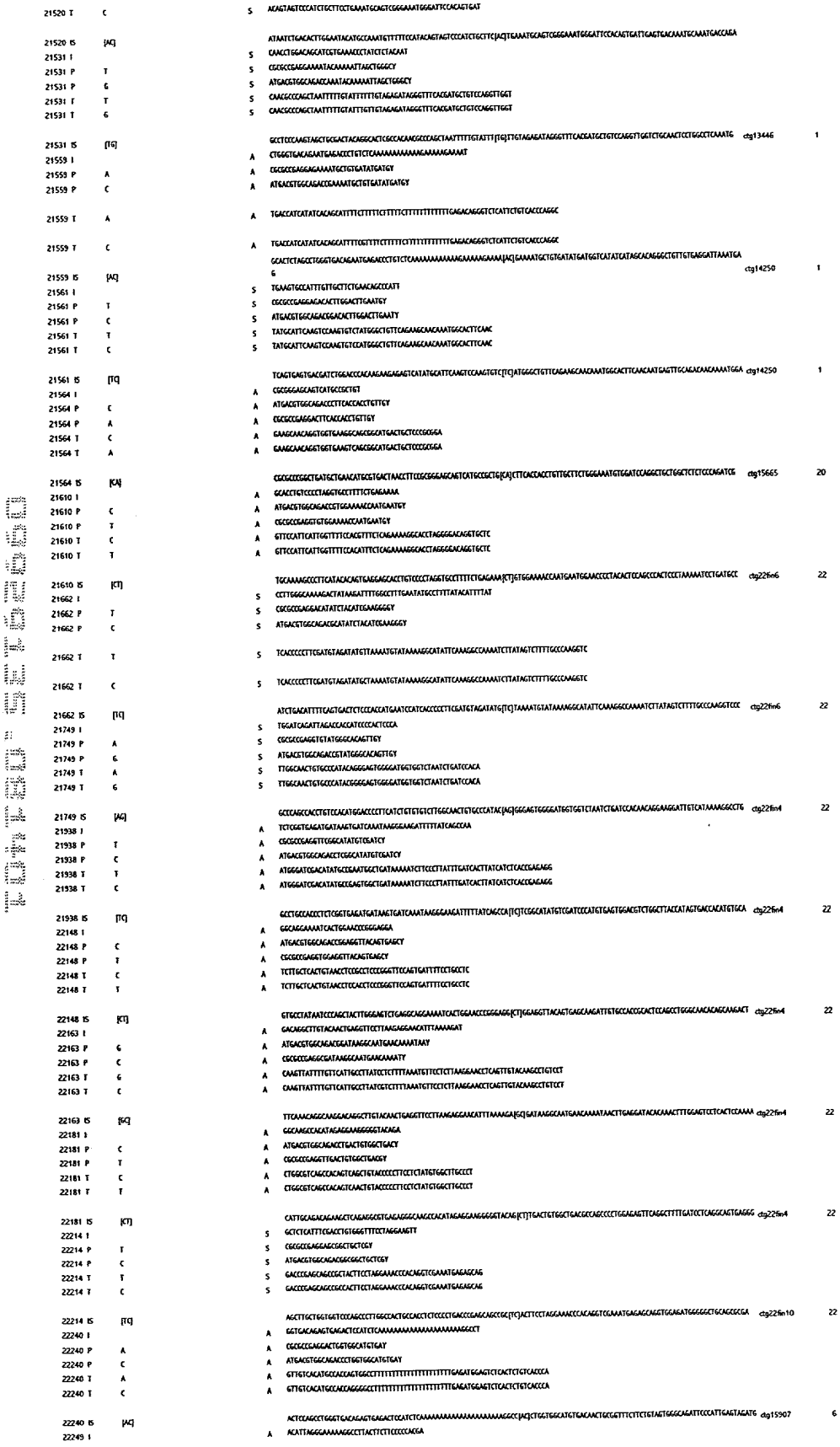
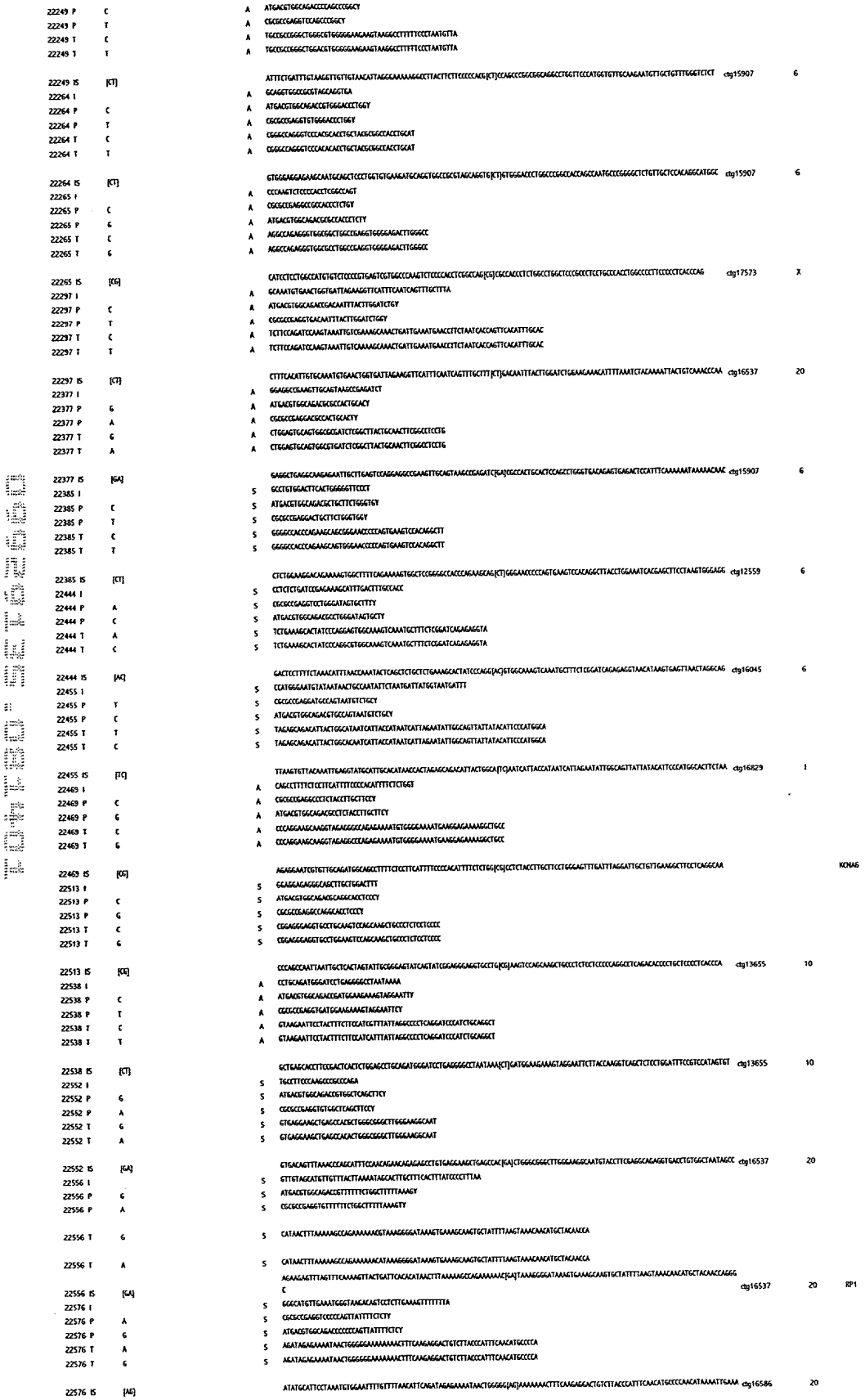


FIGURE 129F



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FIGURE 129F

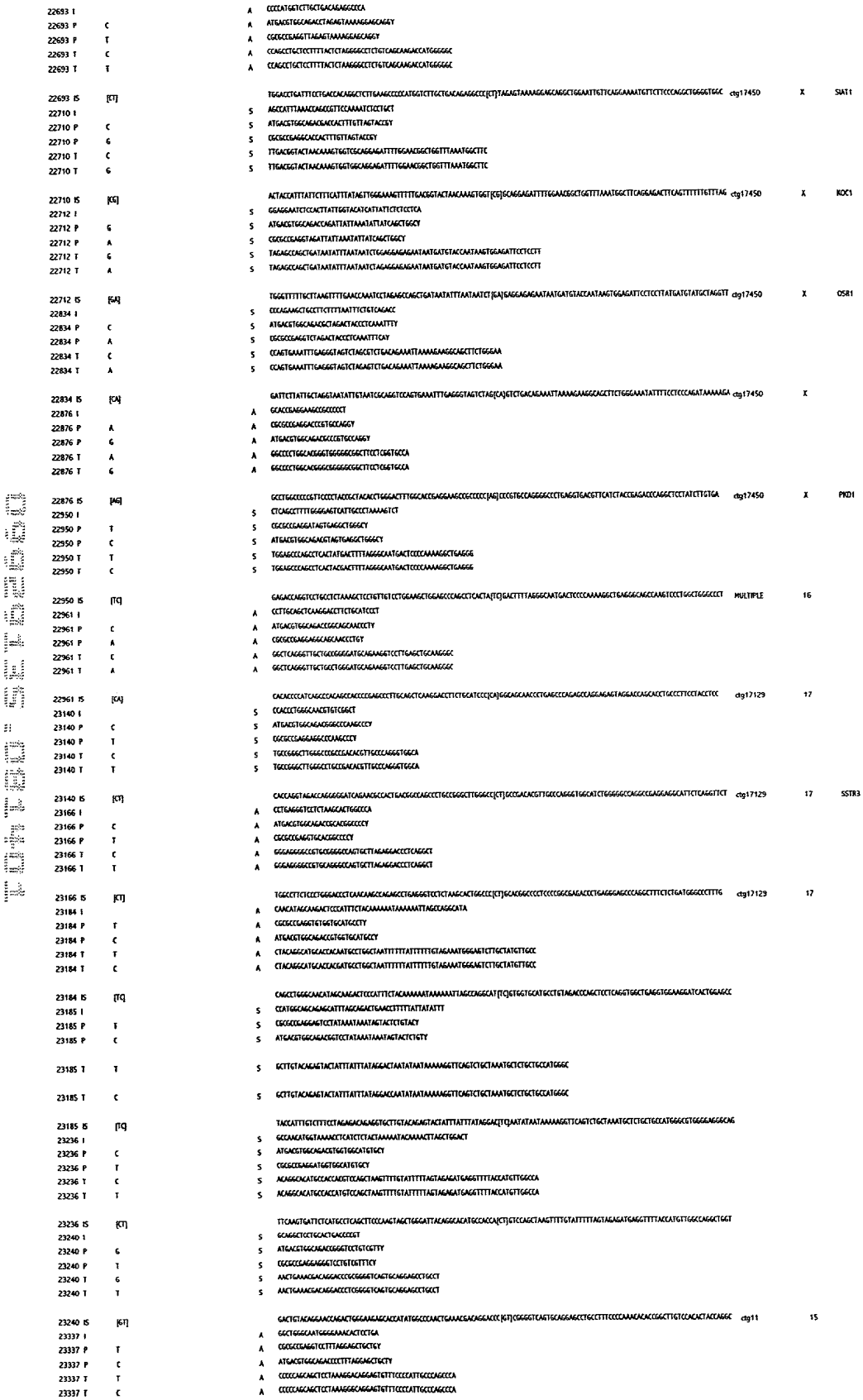

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22693 P C A ATGACGTGGCAGACCTAGAGTAAAAGGAGCAGGY
22693 P T A CGCGCCGAGGTTAGAGTAAAAGGAGCAGGY
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22693 T T A CCAGCCTGCTCCTTTTACTCTAAGGGCCTTCTGTCAGCAAGACCATGGGGGC
22693 IS [CT] TGGACCTGATTTCCTGACCACAGGCTCTTGAAGCCCCCATGGTCTTGCTGACAGAGGCCC[CT]TAGAGTAAAAGGAGCAGGCTGGAATTGTTCAGGAAAATGTTCTTCCCAGGCTGGGGTGGC ctg17450 X SIAT1
22710 I S AGCCATTTAAACCAGCCGTTCCAAAATCTCCTGCT
22710 P C S ATGACGTGGCAGACCACACTTTGTTAGTACCGY
22710 P G S CGCGCCGAGGCACCACTTTGTTAGTACCGY
22710 T C S TTGACGGTACTAACAAAGTGGTGCAGGAGATTTTGGAACGGCTGGTTTAAATGGCTTC
22710 T G S TTGACGGTACTAACAAAGTGGTGGCAGGAGATTTTGGAACGGCTGGTTTAAATGGCTTC
22710 IS [CG] ACTACCATTTATTCTTTCATTTATAGTTGGGAAAGTTTTTTGACGGTACTAACAAAGTGGT[CG]GCAGGAGATTTTGGAACGGCTGGTTTAAATGGCTTCAGGAGACTTCAGTTTTTTGTTTAG ctg17450 X KOC1
22712 I S GGAGGAATCTCCACTTATTGGTACATCATTATTCTCTCCTCA
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22712 P A S CGCGCCGAGGTAGATTATTAAATATTATCAGCTGGCY
22712 T G S TACAGCCAGCTGATAATATTTAATAATCTGGAGGAGAGAATAATGATGTACCAATAAGTGGAGATTCCTCCTT
22712 T A S TACAGCCAGCTGATAATATTTAATAATCTAGAGGAGAGAATAATGATGTACCAATAAGTGGAGATTCCTCCTT
22712 IS [GA] TGGGTTTTTGCTTAAGTTTTGAACCAAATCCTAGAGCCAGCTGATAATATTTAATAATCT[GA]GAGGAGAGAATAATGATGTACCAATAAGTGGAGATTCCTCCTTATGATGTATGCTAGGTT ctg17450 X OSR1
22834 I S CCCAGAAGCTGCCTTCTTTTAATTTCTGTCAGACC
22834 P C S ATGACGTGGCAGACGCTAGACTACCCTCAAATTTY
22834 P A S CGCGCCGAGGTCTAGACTACCCTCAAATTTCAY
22834 T C S CCAGTGAAATTTGAGGGTAGTCTAGCGTCTGACAGAAATTAAAAGAAGGCAGCTTCTGGGAA
22834 T A S CCAGTGAAATTTGAGGGTAGTCTAGAGTCTGACAGAAATTAAAAGAAGGCAGCTTCTGGGAA
22834 IS [CA] GATTCTATTGCTAGGTAATATTGTAATCGCAGGTCCAGTGAAATTTGAGGGTAGTCTAG[CA]GTCTGACAGAAATTAAAAGAAGGCAGCTTCTGGGAAATATTTTCCTCCCAGATAAAAGA ctg17450 X
22876 I A GCACCGAGGAAGCGCCCCCT
22876 P A A CGCGCCGAGGACCCGTGCCAGGY
22876 P G A ATGACGTGGCAGACGCCCGTGCCAGGY
22876 T A A GGCCCCTGGCAGGGGTGGGGGCGGCTTCCTCGGTGCCA
22876 T G A GGCCCCTGGCAGGGGCGGGGGCGGCTTCCTCGGTGCCA
22876 IS [AG] GCCTGGCCCCCGTTCCCCTACCGCTACACCTGGGACTTTGGCACCGAGGAAGCCGCCCCC[AG]CCCGTGCCAGGGGCCCTCAGGTGACGTTCATCTACCGAGACCCAGGCTCCTATCTTGTGA ctg17450 X PKD1
22950 I S CTCAGCCTTTTGGGGAGTCATTGCCCTAAAAGTCT
22950 P T S CGCGCCGAGGATAGTGAGGCTGGGCY
22950 P C S ATGACGTGGCAGAGGTAGTGAGGCTGGGCY
22950 T T S TGGAGCCCAGCCTCACTATGACTTTTAGGGCAATGACTCCCCAAAAGGCTGAGGG
22950 T C S TGGAGCCCAGCCTCACTACGACTTTTAGGGCAATGACTCCCCAAAAGGCTGAGGG
22950 IS [TC] GAGACCAGGTCCTGCCTCTAAAGCTCCTGTTGTCCTGGAAGCTGGAGCCCAGCCTCACTA[TC]GACTTTTAGGGCAATGACTCCCCAAAAGGCTGAGGGCAGCCAAGTCCCTGGCTGGGCCCT MULTIPLE 16
22961 I A CCTTGCAGCTCAAGGACCTTCTGCATCCCT
22961 P C A ATGACGTGGCAGACCGGCAGCAACCCTY
22961 P A A CGCGCCGAGGAGGCAGCAACCCTGY
22961 T C A GGCTCAGGGTTGCTGCCGGGGGATGCAGAAGGTCCTTGAGCTGCAAGGC
22961 T A A GGCTCAGGGTTGCTGCCTGGGATGCAGAAGGTCCTTGAGCTGCAAGGC
22961 IS [CA] CACACCCATCAGCCACAGCCACCCCGAGCCCTCTGCAGCTCAAGGACCTTCTGCATCCC[CA]GGCAGCAACCCTGAGCCCAGAGCCAGGAGAGTAGGACCAGCACCTGCCCTTCCTACCTCC ctg17129 17
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23140 P T S CGCGCCGAGGAGGCCCAAGCCCY
23140 T C S TGCCGGGCTTGGGCCCGCCCACACGTTGCCCAGGGTGGCA
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23166 P C A ATGACGTGGCAGACCGCACGGCCCCY
23166 P T A CGCGCCGAGGTGCACGGCCCCY
23166 T C A GGGAGGGCCCCTGTGCGGGCCCAGTGCTTAGAGGACCCTCAGGCT
23166 T T A GCGAGGGGCCCTGTGCAGGGCCAGTGCTTAGAGGACCCTCAGGCT
23166 IS [CT] TGGCCCTCTCCCTGGGACCCTCAACAAGCCACAGACCTGAGGGTCCTCTAAGCACTGGCCC[CT]GCACGGCCCCTCCCCGGCCGAGACCCTGAGGGAGCCCAGGCTTTCTCTGATGGGCCCTTTG ctg17129 17
23184 I A CAACATAGCAAGACTCCCATTTCTACAAAAAATAAAAAATTAGCCAGGCATA
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23184 P C A ATGACGTGGCAGACCGTGGTGCATGCCY
23184 T T A CTACAGGCATGCACCACAATGCCTGGCTAATTTTTTATTTTTTGTAGAAATGGGAGTCTTGCTATGTTGCC
23184 T C A CTACAGGCATGCACCACGATGCCTGGCTAATTTTTTATTTTTTGTAGAAATGGGAGTCTTGCTATGTTGCC
23184 IS [TC] CAGCCTGGGCAACATAGCAAGACTCCCATTTCTACAAAAAATAAAAAATTAGCCAGGCAT[TC]GTGGTGCATGCCTGTAGACCCAGCTCCTCAGGTGGCTGAGGTGGAAGGATCACTGGAGCC
23185 I S CCATGGCAGCAGAGCATTTAGCAGACTGAACGTTTTATTATATTT
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23185 P C S ATGACGTGGCAGACGGTCCTATAAATAAATAGTACTCTGTY
23185 T T S GCTTGTACAGAGTACTATTTATTTATAGGACTAATATAATAAAAAGGTTCAGTCTGCTAAATGCTCTGCTGCCATGGGC
23185 T C S GCTTGTACAGAGTACTATTTATTTATAGGACCAATATAATAAAAAGGTTCAGTCTGCTAAATGCTCTGCTGCCATGGGC
23185 IS [TC] TACCATTTGTCTTTCCTAGAGACAGAGGTGCTTGTACAGAGTACTATTTATTTATAGGACTTCAATATAATAAAAAGGTTCAGTCTGCTAAATGCTCTGCTGCCATGGGCGTGGGGAGGGCAG
23236 I S GCCAACATGGTAAAACCTCATCTCTACTAAAAATACAAAACTTAGCTGGACT
23236 P C S ATGACGTGGCAGACGTGGTGGCATGTGCY
23236 P T S CGCGCCGAGGATGGTGGCATGTGCY
23236 T C S ACAGGCACATGCCACCACGTCCAGCTAAGTTTGTATTTTTAGTAGAGATGAGGTTTTACCATGTTGGCCA
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23236 IS [CT] TTCAAGTGATTCTCATGCCTCAGCTTCCCAAGTAGCTGGGATTACAGGCACATGCCACCA[CT]GTCCAGCTAAGTTTTGTATTTTTAGTAGAGATGAGGTTTTACCATGTTGGCCAGGCTGGT
23240 I S GCAGGCTCCTGCACTGACCCGT
23240 P G S ATGACGTGGCAGACGGGGTCCTGTCGTTY
23240 P T S CGCGCCGAGGAGGGTCCTGTGGTTTCY
23240 T G S AACTGAAACGACAGGACCCCGCGGGGTCAGTGCAGGAGCCTGCCT
23240 T T S AACTGAAACGACAGGACCCTCGGGGTCAGTGCAGGAGCCTGCCT
23240 IS [GT] GACTGTACAGGAACAGACTGGGAAAGAGCACATATGGCCCAACTGAAACGACAGGACCC[GT]CGGGGTCAGTGCAGGAGCCTGCCTTTCCCCAAACACACCGGCTTGTCCACACTACCAGGC ctg11 15
23337 I A GGCTGGGCAATGGGGAAAACACTCCTGA
23337 P T A CGCGCCGAGGTCCTTTAGGAGCTGCTGY
23337 P C A ATGACGTGGCAGACCCCTTTAGGAGCTGCTY
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FIGURE 129F

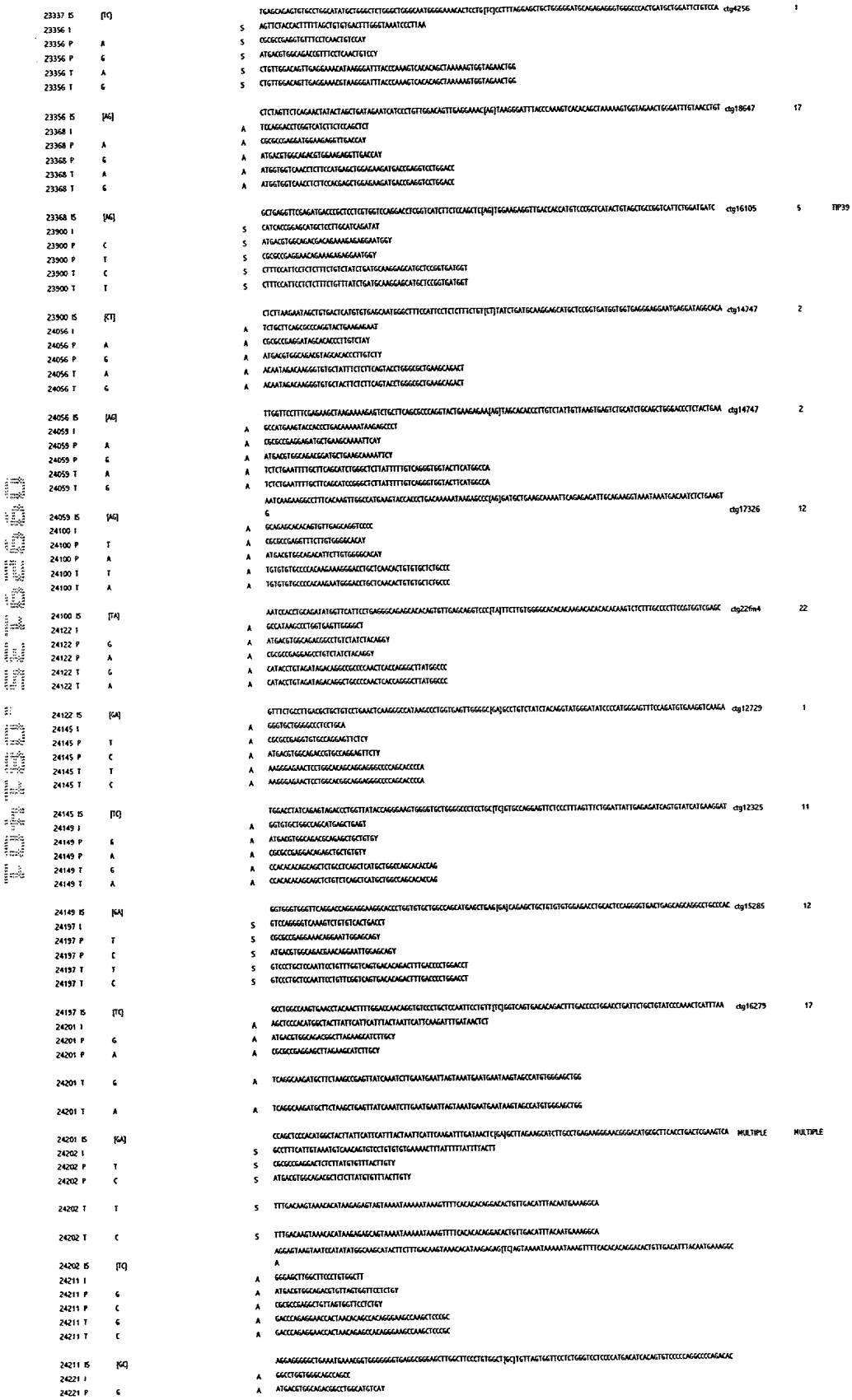
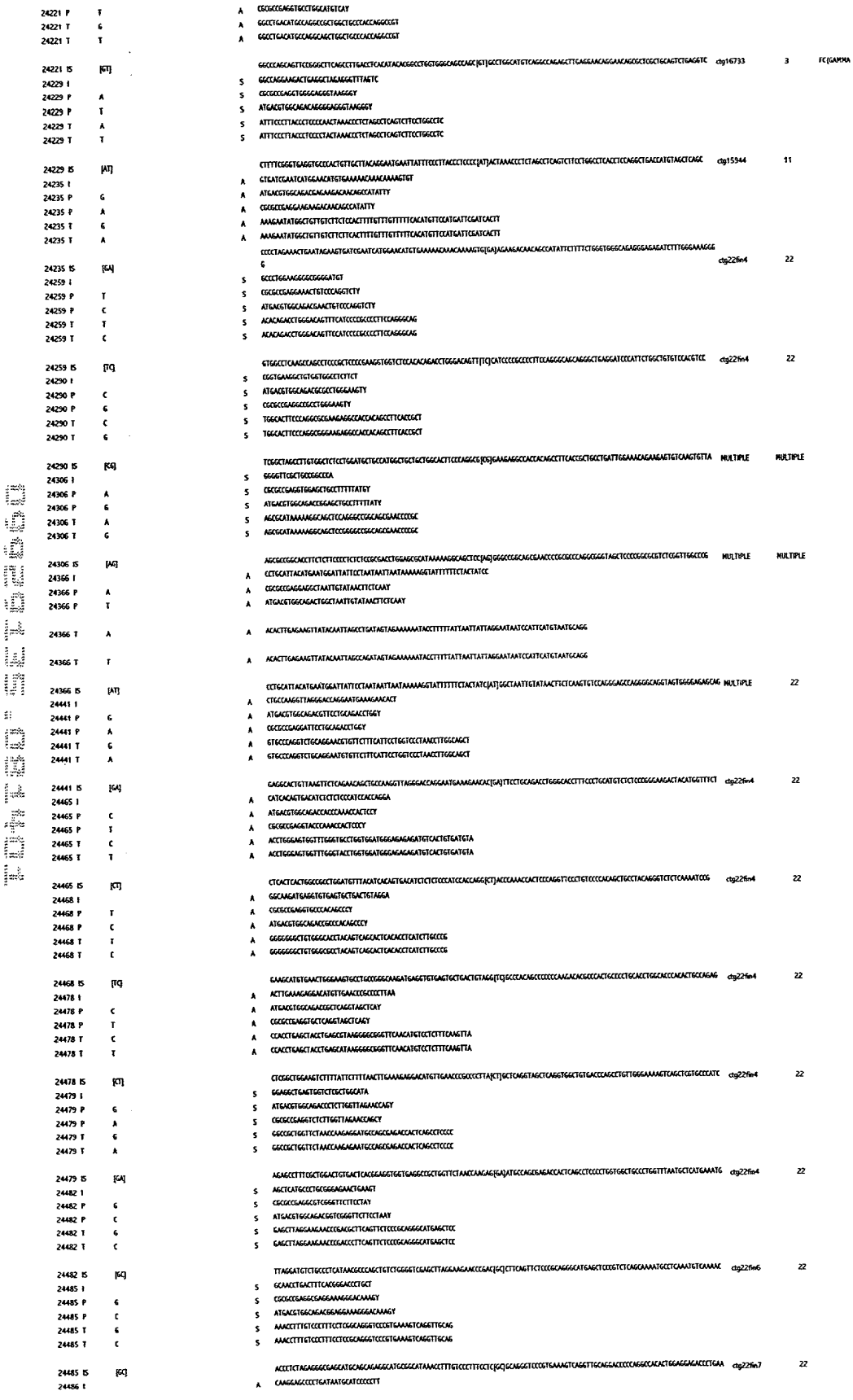

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23356 I S AGTTCTACCACTTTTTAGCTGTGTGACTTTGGGTAAATCCCTTAA
23356 P A S CGCGCCGAGGTGTTTCCTCAACTGTCCAT
23356 P G S ATGACGTGGCAGACCGTTTCCTCAACTGTCCY
23356 T A S CTGTTGGACAGTTGAGGAAACATAAGGGATTTACCCAAAGTCACACAGCTAAAAAGTGGTAGAACTGG
23356 T G S CTGTTGGACAGTTGAGGAAACGTAAGGGATTTACCCAAAGTCACACAGCTAAAAAGTGGTAGAACTGG
23356 IS [AG] CTCTAGTTCTCAGAACTATACTAGCTGATAGAATCATCCCTGTTGGACAGTTGAGGAAAC[AG]TAAGGGATTTACCCAAAGTCACACAGCTAAAAAGTGGTAGAACTGGGATTTGTAACCTGT ctg18647 17
23368 I A TCCAGGACCTCGGTCATCTTCTCCAGCTCT
23368 P A A CGCGCCGAGGATGGAAGAGGTTGACCAT
23368 P G A ATGACGTGGCAGACGTGGAAGAGGTTGACCAY
23368 T A A ATGGTGGTCAACCTCTTCCATGAGCTGGAGAAGATGACCGAGGTCCTGGACC
23368 T G A ATGGTGGTCAACCTCTTCCACGAGCTGGAGAAGATGACCGAGGTCCTGGACC
23368 IS [AG] GCTGAGGTTCGAGATGACCCGCTCCTCGTGGTCCAGGACCTCGGTCATCTTCTCCAGCTC[AG]TGGAAGAGGTTGACCACCATGTCCCGCTCATACTGTAGCTGCCGGTCATTCTGGATGATC ctg16105 5 TIP39
23900 I S CATCACCGGAGCATGCTCCTTGCATCAGATAT
23900 P C S ATGACGTGGCAGACAGAAAGAAGAGGAATGGY
23900 P T S CGCGCCGAGGAACAGAAAGAAGAGGAATGGY
23900 T C S CTTTCCATTCCTCTCTTTCTGTCTATCTGATGCAAGGAGCATGCTCCGGTGATGGT
23900 T T S CTTTCCATTCCTCTCTTTCTGTTTATCTGATGCAAGGAGCATGCTCCGGTGATGGT
23900 IS [CT] CTCTTAAGAATAGCTGTGACTCATGTGTGAGCAATGGGCTTTCCATTCCTCTCTTTCTGT[CT]TATCTGATGCAAGGAGCATGCTCCGGTGATGGTGGTGAGGGAGGAATGAGGATAGGCACA ctg14747 2
24056 I A TCTGCTTCAGCGCCCAGGTACTGAAGAAGAAT
24056 P A A CGCGCCGAGGATAGCACACCCTGTCTAY
24056 P G A ATGACGTGGCAGACAGGTAGCACACCCTGTCTY
24056 T A A ACAATAGACAAGGGTGTGCTACTTCTCTTCAGTACCTGGGGCGTGAAGCAGACT
24056 T G A ACAATAGACAAGGGTGTGCTACTTCTCTTCAGTACCTGGGGCGTGAAGCAGACT
24056 IS [AG] TTGGTTCCTTTCGAGAAGCTAAGAAAAGAGTCTGCTTCAGCGCCCAGGTACTGAAGAGAA[AG]TAGCACACCCTTGTCTATTGTTAAGTGAGTCTGCATCTGCAGCTGGGACCCTCTACTGAA ctg14747 2
24059 I A GCCATGAAGTACCACCCTGACAAAAATAAGAGCCCT
24059 P A A CGCGCCGAGGAGATGCTGAAGCAAAATTCAY
24059 P G A ATGACGTGGCAGACGGATGCTGAAGCAAAATTCY
24059 T A A TCTCTGAATTTTGCTTCAGCATCTGGGCTCTATTTTTGTCAGGGTGGTACTTCATGGCCA
24059 T G A TCTCTGAATTTTGCTTCAGCATCCGGGCTCTATTTTTGTCAGGGTGGTACTTCATGGCCA
24059 IS [AG] AATCAAGAAGGCCTTTCACAAGTTGGCCATCAAGTACCACCCTGACAAAAATAAGAGCCC[AG]GATGCTGAAGCAAAATTCAGAGAGATTGCAGAAGGTAAATAAATGACAATCTCTGAAGT G ctg17326 12
24100 I A GCACAGCACACAGTGTTGAGCAGGTCCCC
24100 P T A CGCGCCGAGGTTTCTTGTGGGGCACAY
24100 P A A ATGACGTGGCAGACATCTTGTGGGGCACAY
24100 T T A TGTGTGTGCCCCACAAGAAAGGGACCTGCTCAACACTGTGTGCTCTGCCC
24100 T A A TGTGTGTGCCCCACAAGAATGGGACCTGCTCAACACTGTGTGCTCTGCCC
24100 IS [TA] AATCCACCTGCAGATATGGTTCATTCCTGAGGGCAGAGCACACAGTGTTGAGCAGGTCCC[TA]TTCTTGTGGGGCACACACAAGACACACACACAAGTCTCTTTGCCCCTTCCGTGGTCGAGC ctg22fm4 22
24122 I A GCCATAAGCCCTGGTGAGTTGGGGCT
24122 P G A ATGACGTGGCAGACGGCCTGTCTATCTACAGGY
24122 P A A CGCGCCGAGGAGCCTGTCTATCTACAGGY
24122 T G A CATACCTGTAGATAGACAGGCTGCCCCAACTCACCAGGGCTTATGGCCC
24122 T A A CATACCTGTAGATAGACAGGCTGCCCCAACTCACCAGGGCTTATGGCCC
24122 IS [GA] GTTTCTGCCTTGACGCTGCTGTCCTGAACTCAAGGGCCATAAGCCCTGGTGAGTTGGGGC[GA]GCCTGTCTATCTACAGGTATGGGGATATCCCCATGGGAGTTTCCAGATGTGAAGGTCAAGA ctg12729 1
24145 I A GGGTGCTGGGGCCCTCCTGCA
24145 P T A CGCGCCGAGGTGTGCCAGGAGTTCTCY
24145 P C A ATGACGTGGCAGACCGTGCCAGGAGTTCTY
24145 T T A AAGGGAGAACTCCTGGCACAGCAGGAGGGCCCCAGCACCCCA
24145 T C A AAGGGAGAACTCCTGGCACGGCAGGAGGGCCCCAGCACCCCA
24145 IS [TC] TGGACCTATCAGAGTAGACCCTGGTTATACCAGGGAAGTGGGGTGCTGGGGCCCTCCTGC[TC]GTGCCAGGAGTTCTCCCTTTAGTTTCTGGATTATTGAGAGATCAGTGTATTCATGAAGGAT ctg12325 11
24149 I A GGTGTGCTGGCCAGCATGAGCTGAGT
24149 P G A ATGACGTGGCAGACGCAGAGCTGCTGTGY
24149 P A A CGCGCCGAGGACAGCAGCTGCTGTGY
24149 T G A CCACACACAGCAGCTCTGCCTCAGCTCATGCTGGCCAGCACACCAG
24149 T A A CCACACACAGCAGCTCTGTCTCAGCTCATGCTGGCCAGCACACCAG
24149 IS [GA] GGTGGGTGGGTTCAGGACCAGGAGGAAGGCACCCTGGTGTGCTGGCCAGCATGAGCTGAG[GA]CAGAGCTGCTGTGTGTGGAGACCTGCACTCCAGGGGTGACTGAGCAGCAGGCCTGCCCAC ctg15285 12
24197 I S GTCCAGGGGTCAAAGTCTGTGTCACTGACCT
24197 P T S CGCGCCGAGGAAACAGGAATTGGAGCAGY
24197 P C S ATGACGTGGCAGACGAACAGGAATTGGAGCAGY
24197 T T S GTCCCTGCTCCAATTCCTGTTTGCTCAGTGACACAGACTTTGACCCCTGGACCT
24197 T C S GTCCCTGCTCCAATTCCTGTTTGGCTCAGTGACACAGACTTTGACCCCTGGACCT
24197 IS [TC] GCCTGGCCAAGTGAACCTACAACTTTTGGAACCAACAGGTGTCCCTGCTCCAATTCCTCTGTT[TC]GGTCAGTGACACAGACTTTGACCCCTGGACCTGATTCTGCTGTATCCCAAACTCATTTAA ctg16279 17
24201 I A AGCTCCCACATGGCTACTTATTCATTCATTTACTAATTCATTCAAGATTTGATAACTCT
24201 P G A ATGACGTGGCAGACGGCTTAGAAGGATCTTGCY
24201 P A A CGCGCCGAGGAGCTTAGAAGCATCTTGCY
24201 T G A TCAGGCAAGATGCTTCTAAGCCGAGTTATCAAATCTTGAATGAATTAGTAAATGAATGAATAAGTAGCCATGTGGGAGCTGG
24201 T A A TCAGGCAAGATGCTTCTAAGCTGAGTTATCAAATCTTGAATGAATTAGTAAATGAATGAATAAGTAGCCATGTGGGAGCTGG
24201 IS [GA] CCAGCTCCCACATGGCTACTTATTCATTCATTTACTAATTCATTCAAGATTTGATAACTC[GA]GCTTAGAAGCATCTTGCCTGAGAAGGGAACGGGACATGGGCTTCACCTGACTCGAAGTCA MULTIPLE MULTIPLE
24202 I S GCCTTTCATTGTAAATGTCAACAGTGTCCTGTGTGTGAAAACTTTATTTTTATTTTACTT
24202 P T S CGCGCCGAGGACTCTCTTATGTGTTTACTTGTY
24202 P C S ATGACGTGGCAGACGCTCTCTTATGTGTTTACTTGTY
24202 T T S TTTGACAAGTAAACACATAAGAGAGTAGTAAAATAAAAATAAAGTTTTCACACACAGGAACACTGTTGACATTTACAATGAAAGGCA
24202 T C S TTTGACAAGTAAACACATAAGAGAGCAGTAAAATAAAAATAAAGTTTTCACACACAGGAACACTGTTGACATTTACAATGAAAGGCA
24202 IS [TC] AGGAGTAAGTAATCCATATATGGCAAGCATACTTCTTTGACAAGTAAACACATAAGAGAG[TC]AGTAAAATAAAAATAAAGTTTTCACACACAGGAACACTGTTGACATTTACAATGAAAGGC A
24211 I A GGGAGCTTGGCTTCCCTGTGGCTT
24211 P G A ATGACGTGGCAGACGTGTTAGTGGTTCCTCTGY
24211 P C A CGCGCCGAGGCTGTTAGTGGTTCCTCTGY
24211 T G A GACCCAGAGGAACCACTAACAGCCACAGGGAAGCCAAGCTCCCGC
24211 T C A GACCCAGAGGAACCACTAACAGAGCCACAGGGAAGCCAAGCTCCCGC
24211 IS [GC] AGGAGGGGGCTGAAATGAAACGGTGGGGGGGTGAGCCGGGAGCTTGGCTTCCCTGTGGCT[GC]TGTTAGTGGTTCCTCTGGGTCCTCCCCATGACATCACAGTGTCCCCCAGGCCCAGACAC
24221 I A GGCCTGGTGGGCAGCCAGCC
24221 P G A ATGACGTGGCAGACGGCCTGGCATGTCAY

FIGURE 129F



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FIGURE 129F

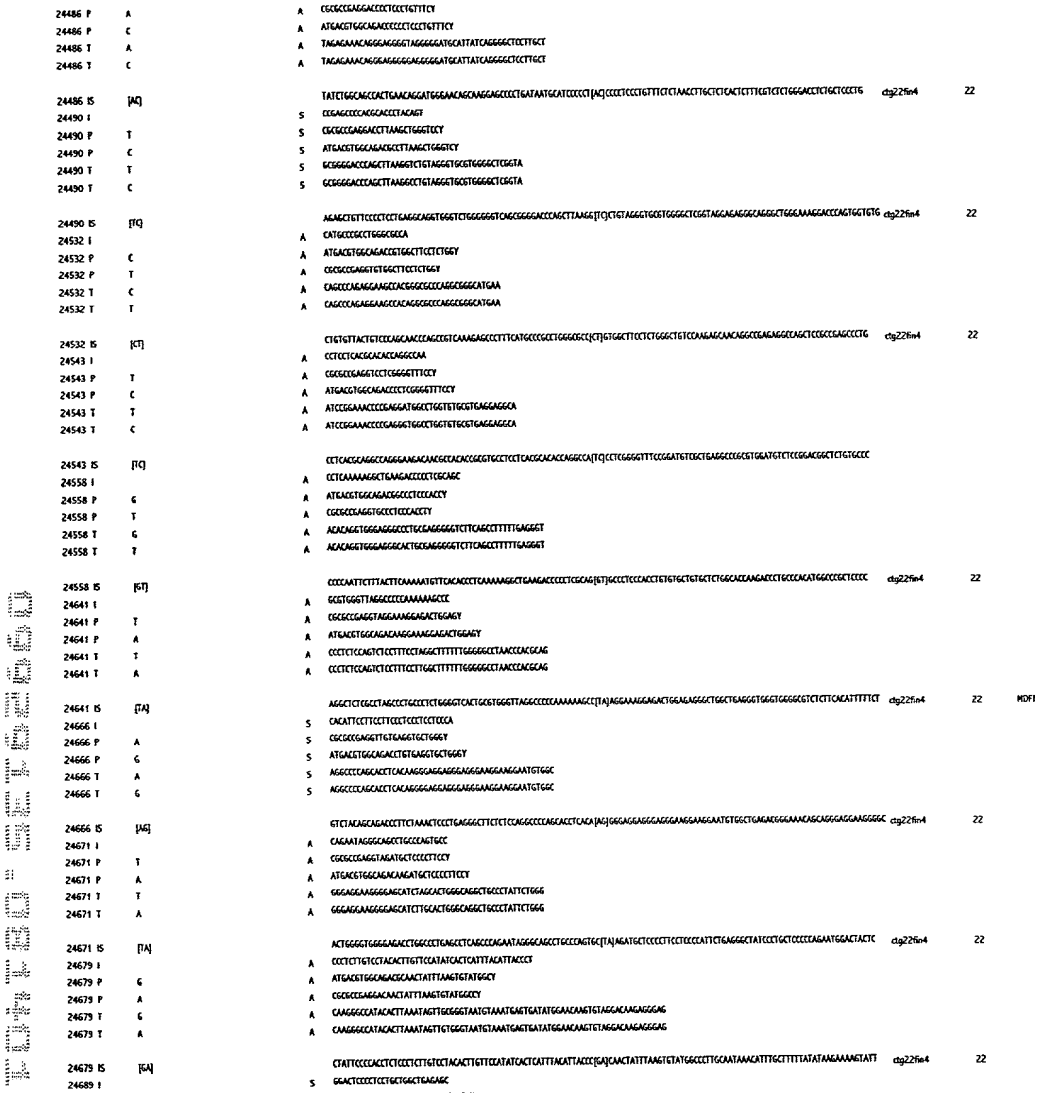

24486 P A A CGCGCCGAGGACCCCTCCCTGTTTCY
24486 P C A ATGACGTGGCAGACCCCCTCCCTGTTTCY
24486 T A A TAGAGAAACAGGGAGGGGTAGGGGGATGCATTATCAGGGGCTCCTTGCT
24486 T C A TAGAGAAACAGGGAGGGGGAGGGGGATGCATTATCAGGGGCTCCTTGCT
24486 IS [AC] TATCTGGCAGCCACTGAACAGGATGGGAACAGCAAGGAGCCCCTGAFAATGCATCCCCCT[AC]CCCCTCCCTGTTTCTCTAACCTTGCTCTCTCACTCTTTCGTCTCTGGGACCTCTGCTCCCCTG ctg22fm4 22
24490 I S CCGAGCCCCAGGCACCCTACAGT
24490 P T S CGCGCCGAGGACCTTAAGCTGGGTCCY
24490 P C S ATGACGTGGCAGACGCCTTAAGCTGGGTCY
24490 T T S GCGGGGACCCAGCTTAAGGCCTGTAGGGTGCGTGGGGCTCGGTA
24490 T C S GCGGGGACCCAGCTTAAGGCCTGTAGGGTGCGTGGGGCTCGGTA
24490 IS [TC] AGAGCTGTTCCCCTCCTGAGGCAGGTGGGTCTGGGGGGTCAGCGGGGAACCCAGCTTAAGG[TC]CTGTAGGGTGCGTGGGGCTCGGTAGCAGAGGGCAGGGCTGGGAAAGGACCCAGTGGTGTG ctg22fm4 22
24532 I A CATGCCGGCTGGGCGCA
24532 P C A ATGACGTGGCAGACCGTGGCTTCCTCTGGY
24532 P T A CGCGCCGAGGTGTGGCTTCCTCTGGY
24532 T C A CAGCCCAGAGGAAGCCACGGGCGCCCAGGCGGGCATGAA
24532 T T A CAGCCCAGAGGAAGCCACAGGCGCCCAGGCGGGCATGAA
24532 IS [CT] CTGTGTTACTGTCCCAGCAACCCAGCCGTCAAAGAGCCCTTTCATGCCCGCCTGGGGCGCC[CT]GTGGCTTCCTCTGGGCTGTCCAAGAGCAACAGGCCGAGAGGCCAGCTCCGCCGAGCCCTG ctg22fm4 22
24543 I A CCTCCTCACGCACACCAGGCCAA
24543 P T A CGCGCCGAGGTCCTCGGGGTTTCCY
24543 P C A ATGACGTGGCAGACCCCTCGGGGTTTCCY
24543 T T A ATCCGGAAACCCCGAGGATGGCCTGGTGTGCGTGAGGAGGCA
24543 T C A ATCCGGAAACCCCGAGGGTGGCCTGGTGTGCGTGAGGAGGCA
24543 IS [TC] CCTCACGCAGGCCAGGGAAGACAACGCCACACCGGGTGCCTCCTCACGCACACCAGGCCA[TC]CCTCGGGGTTTCCGGATGTCGCTGAGGCCCGCGTGGATGTCTCCGGACGGCTCTGTGCCC
24558 I A CCTCAAAAAGGCTGAAGACCCCCTCGCAGC
24558 P G A ATGACGTGGCAGACGGCCCTCCCACCY
24558 P T A CGCGCCGAGGTGCCCTCCCACCCY
24558 T G A ACACAGGTGGGGAGGCCCTGCGAGGGGGTCTTCAGCCTTTTTGAGGGT
24558 T T A ACACAGGTGGGGAGGCACTGCGAGGGGGTCTTCAGCCTTTTTGAGGGT
24558 IS [GT] CCCCAATTCTTTACTTCAAAAATGTTCACACCCTCAAAAAGGCTGAAGACCCCCTCGCAG[GT]GCCCTCCCACCTGTGTGCTGTGCTCTGGCACCAAGACCCTGCCCACATGGCCCGCTCCCC ctg22fm4 22
24641 I A GCGTGGGTTAGGCCCCCAAAAAAGCCC
24641 P T A CGCGCCGAGGTAGGAAAGGAGACTGGAGY
24641 P A A ATGACGTGGCAGACAGGCAAAGCAGACTGGAGY
24641 T T A CCCTCTCCAGTCTCCTTTCCTAGGCTTTTTTGGGGGCCTAACCCACGCAG
24641 T A A CCCTCTCCAGTCTCCTTTCCTTGGCTTTTTTGGGGGCCTAACCCACGCAG
24641 IS [TA] AGGCTCTCGCCTAGCCCTGCCCTCTGGGGTCACTGCGTGGGTTAGGCCCCCAAAAAAGCC[TA]AGGAAAGGAGACTGGAGAGGGCTGGCTGAGGGTGGGTGGGGGGTCTCTTCACATTTTTCT ctg22fm4 22 MDF1
24666 I S CACATTCCTTCCTTCCCTCCCTCCCCA
24666 P A S CGCGCCGAGGTTGTGAGGTGCTGGGY
24666 P G S ATGACGTGGCAGACCTGTGAGGTGCTGGGY
24666 T A S AGGCCCCAGCACCTCACAAGGGAGGAGGGAGGGAGGAAGGAAGGAATGTGGC
24666 T G S AGGCCCCAGCACCTCACAGGGGAGGAGGGAGGGAGGAAGGAAGGAATGTGGC
24666 IS [AG] GTCTACAGCAGACCCTTCTAAACTCCCTGAGGGCTTCTCTCCAGGCCCCAGCAACCTCACA[AG]GGGAGGAGGGAGGGAAGGAAGGAATGTGGCTGAGACGGGAAACAGCAGGGAGGAAGGGGC ctg22fm4 22
24671 I A CAGAATAGGGCAGCCTGCCCAGTGCC
24671 P T A CGCGCCGAGGTAGATGCTCCCCTTCCY
24671 P A A ATGACGTGGCAGACAACAGATGCTCCCCTTCCY
24671 T T A GGGAGGAAGGGGAGCATCTAGCACTGGGCAGGCTGCCCTATTCTGGG
24671 T A A GGGAGGAAGGGGAGCATCTTGCACTGGGCAGGCTGCCCTATTCTGGG
24671 IS [TA] ACTGGGGTGGGGAGACCTGGCCCTGAGCCTCAGCCCAGAATAGGGCAGCCTGCCCAGTGC[TA]AGATGCTCCCCTTCCTCCCCATTCTGAGGGCTATCCCTGCTCCCCAGAATGGACTACTC ctg22fm4 22
24679 I A CCCTCTTGTCCTACACTTGTTCCATATCACTCATTTACATTACCCT
24679 P G A ATGACGTGGCAGACGCAACTATTTAAGTGTATGGCY
24679 P A A CGCGCCGAGGACAACTATTTAAGTGTATGGCCY
24679 T G A CAAGGGCCATACACTTAAATAGTTGCGGGTAATGTAAATGAGTGATATGGAACAAGTGTAGGACAAGAGGGAG
24679 T A A CAAGGGCCATACACTTAAATAGTTGTGGGTAATGTAAATGAGTGATATGGAACAAGTGTAGGACAAGAGGGAG
24679 IS [GA] CTATTCCCCACCTCTCCCTCTTGTCCTACACTTGTTCCATATCACTCATTTACATTACCC[GA]CAACTATTTAAGTGTATGGCCCTTGCAATAAACATTTGCTTTTTATATAAGAAAAGTATT ctg22fm4 22
24689 I S GCACTCCCCTCCTGCTGGCTGAGAGC
24689 P C S ATGACGTGGCAGACGGCAGTTAGGATGCTGY
24689 P A S CGCGCCGAGGTGCAGTTAGGATGCTGTY
24689 T C S GCAGACAGCATCCTAACTGCACTCTCAGCCAGCAGCAGGAGGGGAGTCCAC
24689 T A S GCAGACAGCATCCTAACTGCACTCTCAGCCAGCAGCAGGAGGGGAGTCCAC
24689 IS [CA] GGGACCCCAGGCAGCAGAATGCACACAGTGGCACAGGAAGGCAGACAGCATCCTAACTGC[CA]CTCTCAGCCAGCAGCAGGAGGGGAGTCCACAGTCTAGTTCAGTTACCTGAGGGAAACCGCCCA ctg22fm4 22
24702 I S ACGTCCAGCGGCGGGGCTGACT
24702 P G S ATGACGTGGCAGACCGAGTTCAGCGTCTACAY
24702 P T S CGCGCCGAGGAGAGTTCAGCGTCTACAY
24702 T G S TCCCTGTAGACGCTGAACTCGGTCACCCCGCCGCTGGACGTGG
24702 T T S TCCCTGTAGACGCTGAACTCTGTCACCCCGCCGCTGGACGTGG
24702 IS [GT] CCAGCAAGCCCTGGACGTAACTCTCTGTCCCCACCCCGCTCCCTGTAGACGCTGAACTC[GT]GTCACCCCGCCGCTGGACGTGGAGGAGTGCAGCATCGCCCTGTTGCCCCGGAACCCGCAC ctg22fm6 22
24739 I A CTCATTGCTATGGCATCTCAAAGACAGGCTAAAAGAGAGAG
24739 P A A CGCGCCGAGGACACAAGCAGAAGGAGTY
24739 P T A ATGACGTGGCAGACTCACAAGCAGAAGGAGTY
24739 T A A TCCAACTCCTTCTGCTTGTGTCTCTCTCTTTAGCCTGTCTTTGAGATGCCATAGCAATGAGGC
24739 T T A TCCAACTCCTTCTGCTTGTGACTCTCTCTTTAGCCTGTCTTTGAGATGCCATAGCAATGAGGC
24739 IS [AT] CTCCATGGCTTATCCTAGCCTCATTGCTATGGCATCTCAAAGACAGGCTAAAAGAGAGAG[AT]CACAGCAGAAGGAGTTGGAGCACAGGTTGTCTGCAATCAAATCTGCTGTGGAAACTGGT
24772 I A GCTGTGCCCTCGCTTTGGATGGAAGTTCTAT
24772 P G A ATGACGTGGCAGACGTGTGGAGGGCGAAY
24772 P A A CGCGCCGAGGATGTGGAGGCGGAAGY
24772 T G A AAAACTTCCGCCTCCACACTAGAACTTCCATCCAAAGCCAGGGCACAGCCT
24772 T A A AAAACTTCCGCCTCCACATTAGAACTTCCATCCAAAGCGAGGGCACAGCCT
24772 IS [GA] CAAGCTACGGCTCCATCGACCAGTACCCAGGCTGTGCCCTCGCTTTGGATGGAAGTTCTA[GA]TGTGGAGGCGGAAGTTTTGGAAAATGATGGTGTCTCAGGTGGTCTTGGACAAAGGAGCG ctg22fm4 22
24791 I A CATGATCCCAGGTTGGACATGAGCCTGAGAAA
24791 P C A ATGACGTGGCAGACCAGCCCTCACTGCTY
24791 P T A CGCGCCGAGGTAGCCCTCACTGCTTGY
24791 T C A ACGACAAGCAGTGAGGGCTGTTCTCAGGCTCATGTCCAACCTGGGATCATGCC
24791 T T A ACGACAAGCAGTGAGGGCTATTCTCAGGCTCATGTCCAACCTGGGATCATGCC
24791 IS [CT] GGGGCAGTGTCTGCTTCACAGAGGGGGGCATGATCCCAGGTTGGACATGAGCCTGAGAA[CT]AGCCCTCACTGCTTGTCGTTGGCCAGGCACCCCAGCTACCATGTCCCAGATAGCCAAGGA ctg22fm9 22
24793 I S GCCAGGCCTAGGGAACTGCGGT
24793 P C S ATGACGTGGCAGACGGAGAGGGCAGGY

FIGURE 129F

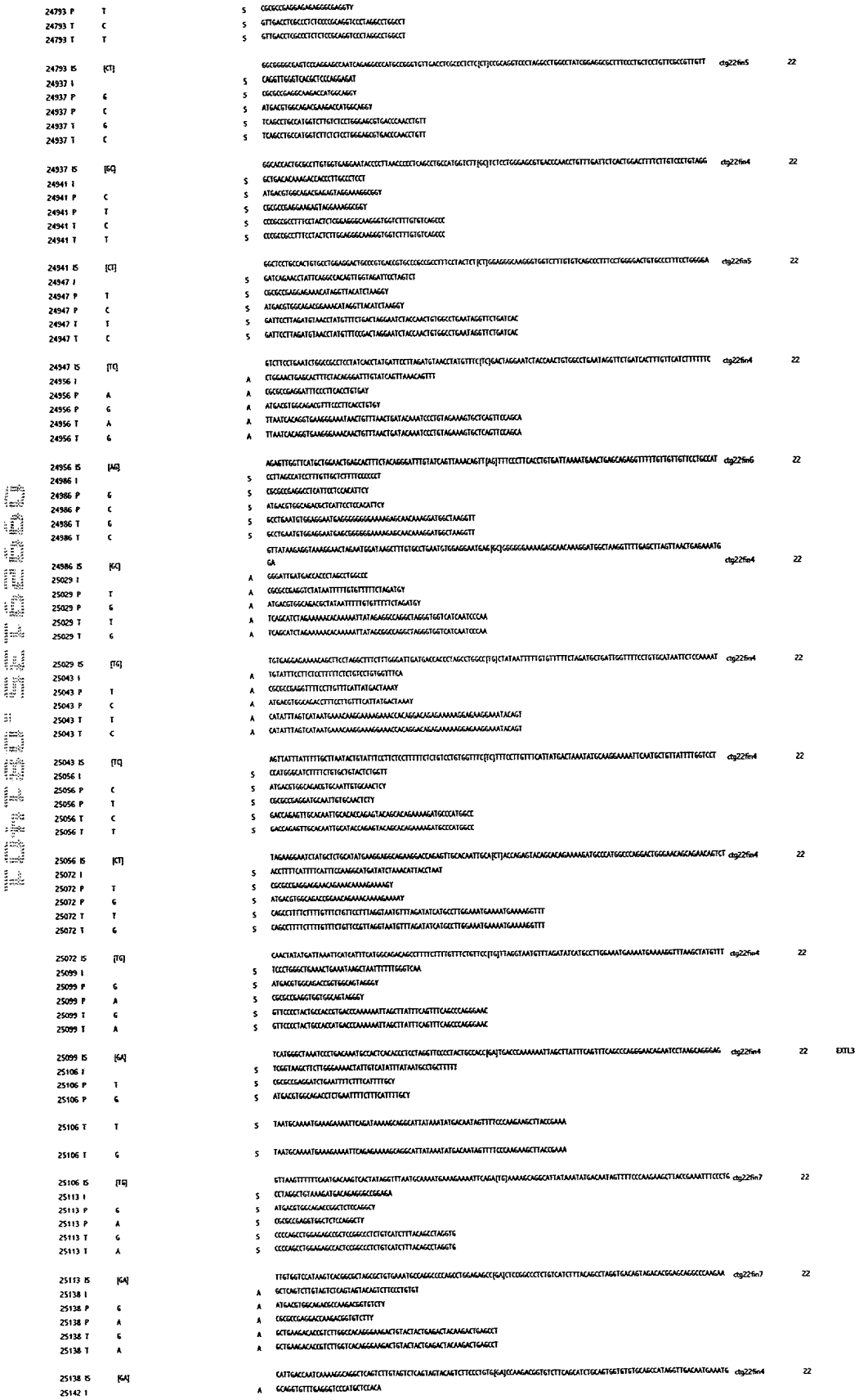

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24793 IS [CT] GGCGGGGCGAGTCCCAGGAGCCAATCAGAGGCCCATGCCGGGTGTTGACCTYGCCCTCTCTCTCCGCAGGTCCCTAGGCCTGGCCTATCGGAGGCGCTTTCCCTGCTCCTGTTCGCCGTTGTT ctg22fin5 22
24937 I CAGGTTGGGTCAGCTCCCAGGAGAT
24937 P G S CGCGCCGAGGCAAGACCATGGCAGGY
24937 P C S ATGACGTGGCAGACGAAGACCATGGCAGGY
24937 T G S TCAGCCTGCCATGGTCTTGTCTCCTGGGAGCGTGACCCAACCTGTT
24937 T C S TCAGCCTGCCATGGTCTTCTCTCCTGGGAGCGTGACCCAACCTGTT
24937 IS [GC] GGCACCACTGCGCCTTGTGGTGAGGAATACCCCTTAACCCCCTCAGCCTGCCATGGTCTT[GC]TCTCCTGGGAGCGTGACCCAACCTGTTTGATTCTCACTGGACTTTTCTTGTCCCTGTAGG ctg22fin4 22
24941 I S GCTGACACAAGACACCCTTGCCCTCCT
24941 P C S ATGACGTGGCAGACGAGAGTAGGAAAGGCGGY
24941 P T S CGCGCCGAGGAGAGTAGGAAAGGCGGY
24941 T C S CCCGCGCGCCTTTCTCACTCTCGGAGGGCAAGGGTGGTCTTTGTGTCAGCCC
24941 T T S CCCGCTGCCTTTCCTACTCTTGGAGGGCAAGGGTGGTCTTTGTGTCAGCCC
24941 IS [CT] GGCTCCTGCCACTGTGCCTGGAGGACTGCCCGTGACCGTGCCGCCGCCTTCCTACTCT[CT]GGAGGGCAAGGGTGGTCTTTGTGTCAGCCCTTTCCTGGGGACTGTGCCCTTTCCTGGGGA ctg22fin5 22
24947 I S GATCAGAACCTATTCAGGCCACAGTTGGTAGATTCCTAGTCT
24947 P T S CGCGCCGAGGAGAAACATAGGTTACATCTAAGGY
24947 P C S ATGACGTGGCAGACGAAACATAGGTTACATCTAAGGY
24947 T T S GATTCCTTAGATGTAACCTATGTTTCTGACTAGGAATCTACCAACTGTGGCCTGAATAGGTTCTGATCAC
24947 T C S GATTCCTTAGATGTAACCTATGTTTCCGACTAGGAATCTACCAACTGTGGCCTGAATAGGTTCTGATCAC
24947 IS [TC] GTCTTCCTGAATCTGGCCGCCCTCCTATCACCTATGATTCCTTAGATGTAACCTATGTTTC[TC]GACTAGGAATCTACCAACTGTGGCCTGAATAGGTTCTGATCACTTTGTTCATCTTTTTTC ctg22fin4 22
24956 I A S CTGGAACTGAGCACTTTCTACAGGGATTTGTATCAGTTAAACAGTTT
24956 P A A CGCGCCGAGGATTTCCCTTCACCTGTGAY
24956 P G A ATGACGTGGCAGACGGTTTCCCTTCACCTGTGY
24956 T A A TTAATCACAGGTGAAGGGAAATAACTGTTTAACTGATACAAATCCCTGTAGAAAGTGCTCAGTTCCAGCA
24956 T G A TTAATCACAGGTGAAGGGAAACAACTGTTTAACTGATACAAATCCCTGTAGAAAGTGCTCAGTTCCAGCA
24956 IS [AG] AGAGTTGGTTCATGCTGGCAACTGAGCACTTTCTACAGGGATTTGTATCAGTTAAACAGTT[AG]TTTCCCTTCACCTGTGATTAAAATGAACTGAGCAGAGGTTTTTGTTGTTGTTCCTGCCAT ctg22fin6 22
24986 I S CCTTAGCCATCCTTTGTTGCTCTTTTCCCCCCT
24986 P G S CGCGCCGAGGCCTCATTGCTCCACATTCY
24986 P C S ATGACGTGGCAGACGCTCATTCCTCCACATTCY
24986 T G S GCCTGAATGTGGAGGAATGAGGGGGGGGAAAAGAGCAACAAAGGATGGCTAAGGTT
24986 T C S GCCTGAATGTGGAGGAATGAGCGGGGGGAAAAGAGCAACAAAGGATGGCTAAGGTT
24986 IS [GC] GTTATAAGAGGTAAAGGAACTAGAATGGATAAGCTTTGTGCCTGAATGTGGAGGAATGAG[GC]GGGGGGAAAAGAGCAACAAAGGATGGCTAAGGTTTTGAGCTTAGTTAACTGAGAAATG GA ctg22fin4 22
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25029 P G A ATGACGTGGCAGACGCTATAATTTTTGTGTTTTTCTAGATGY
25029 T T A TCAGCATCTAGAAAAACACAAAAATTATAGAGGCCAGGCTAGGGTGGTCATCAATCCCAA
25029 T G A TCAGCATCTAGAAAAACACAAAAATTATAGAGGCCAGGCTAGGGTGGTCATCAATCCCAA
25029 IS [TG] TGTGAGGACAAAACAGCTTCCTAGGCTTTCTTTGGGATTGATGACCACCCTAGCCTGGCC[TG]CTATAATTTTTGTGTTTTCTAGATGCTGATTGGTTTTCCTGTGCATAATTCTCCCAAAAT ctg22fin4 22
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25043 P C A ATGACGTGGCAGACCTTTCCTTGTTTGATTATGACTAAAY
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25043 T C A CATATTTAGTCATAATGAAACAAGGAAAGGAAACCACAGGACAGAGAAAAAGGAGAAGGAAATACAGT
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25056 I S CCATGGGCATCTTTTCTGTGCTGTACTCTGGTT
25056 P C S ATGACGTGGCAGACGTGCAATTGTGCAACTCY
25056 P T S CGCGCCGAGGAGTGCAATTGTGCAACTCTY
25056 T C S GACCAGAGTTGCACAATTGCACACCAGAGTACAGCACAGAAAAGATGCCCATGGCC
25056 T T S GACCAGAGTTGCACAATTGCATACCAGAGTACAGCACAGAAAAGATGCCCATGGCC
25056 IS [CT] TAGAAGGAATCTATGCTCTGCATATGAAGGAGGCAGAAGGACCAGAGTTGCACAATTGCA[CT]ACCAGAGTACAGCACAGAAAAGATGCCCATGGCCCAGGACTGGGAACAGCAGAACAGTCT ctg22fin4 22
25072 I S ACCTTTTCATTTTCATTTCCAAGGCATGATATCTAAACATTACCTAAT
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25072 P G S ATGACGTGGCAGACGGAACAGAAACAAAGAAAAY
25072 T T S CAGCCTTTCTTTTGTTTCTGTCCGTTAGGTAATGTTTAGATATCATGCCTTGGAAATGAAAATGAAAAGGTTT
25072 T G S CAGCCTTTCTTTTGTTTCTGTCCGTTAGGTAATGTTTAGATATCATGCCTTGGAAATGAAAATGAAAAGGTTT
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25099 P G S ATGACGTGGCAGACCGGTGGCAGTAGGGY
25099 P A S CGCGCCGAGGTGGTGGCAGTAGGGY
25099 T G S GTTCCCCTACTGCCACCCTGACCCAAAAAATTAGCTTATTTCAGTTTCAGCCCAGGGAAC
25099 T A S GTTCCCCTACTGCCACCATGACCCAAAAAATTAGCTTATTTCAGTTTCAGCCCAGGGAAC
25099 IS [GA] TCATGGGCTAAATCCCTGACAAATGCCACTCACACCCTCCTAGGTTCCCCTACTGCCAC[GA]TGACCCAAAAAATTAGCTTATTTCAGTTTCAGCCCAGGGAACAGAATCCTAAGCAGGGAG ctg22fin4 22 EXTL3
25106 I S TCGGTAAGCTTCTTGGGAAAACTATTGTCATATTTATAATGCCTGCTTTTT
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25106 P G S ATGACGTGGCAGACCTCTGAATTTTCTTTCATTTTGCY
25106 T T S TAATGCAAAATGAAAGAAAATTCAGATAAAAGCAGGCATTATAAATATGACAATAGTTTCCCAAGAAGCTTACCGAAA
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25106 IS [TG] GTTAAGTTTTTTCAATGACAAGTCACTATAGGTTTAATGCAAAATGAAAGAAAATTCAGA[TG]AAAAGCAGGCATTATAAATATGACAATAGTTTCCCAAGAAGCTTACCGAAATTTCCCTG ctg22fin7 22
25113 I S CCTAGGCTGTAAAGATGACAGAGGGCCGGAGA
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25113 T G S CCCCAGCCTGGAGAGCCGCTCCGGCCCTCTGTCATCTTTACAGCCTAGGTG
25113 T A S CCCCAGCCTGGAGAGCCACTCCGGCCCTCTGTCATCTTTACAGCCTAGGTG
25113 IS [GA] TTGTGGTCCATAAGTCACGGCGCTAGCGCTGTGAAATGCCAGGCCCCAGCCTGGAGAGCC[GA]CTCCGGCCCCTCTGTCATCTTTACAGCCTAGGTGACAGTAGACACGGAGCAGGCCCAAGAA ctg22fin7 22
25138 I A A GCTCAGTCTTGTAGTCTCAGTAGTACAGTCTTCCCTGTGT
25138 P G A ATGACGTGGCAGACGCCAAGACGGTGTCTY
25138 P A A CGCGCCGAGGACCAAGACGGTGTCTTY
25138 T G A GCTGAAGACACCGTCTTGGCCACAGGGAAGACTGTACTACTGAGACTACAAGACTGAGCCT
25138 T A A GCTGAAGACACCGTCTTGGTCACAGGGAAGACTGTACTACTGAGACTACAAGACTGAGCCT
25138 IS [GA] CATTGACCAATCAAAAGCCAGGCTCAGTCTTGTAGTCTCAGTAGTACAGTCTTCCCTGTG[GA]CCAAGACGGTGTCTTCAGCATCTGCAGTGGTGTGTGCAGCCATAGGTTGACAATGAAATG ctg22fin4 22
25142 I A A GCAGGTGTTTGAGGGTCCCATGCTCCACA

FIGURE 129F

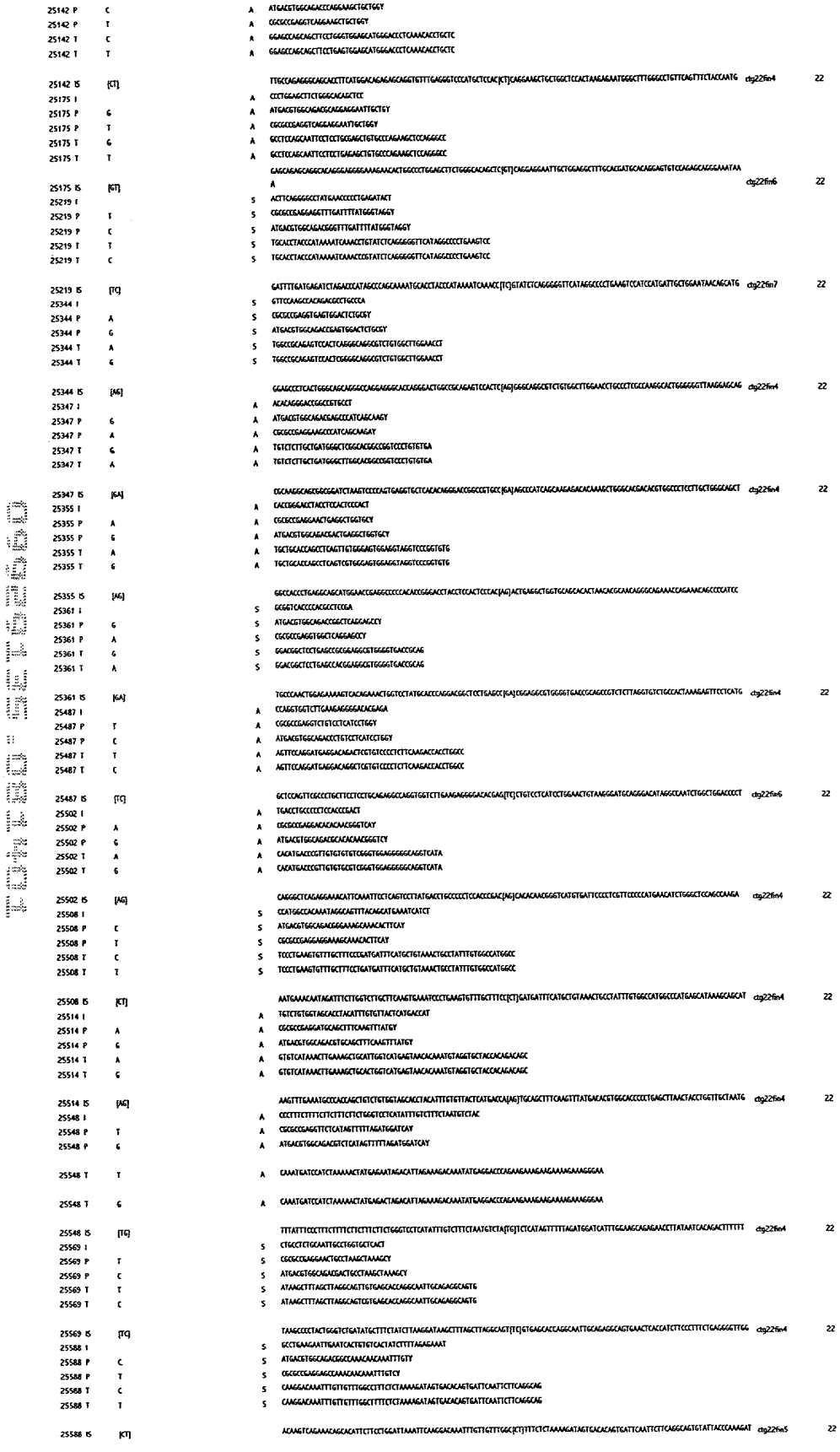

25142 P C A ATGACGTGGCAGACCCAGGAAGCTGCTGGY
25142 P T A CGCGCCGAGGTCAGGAAGCTGCTGGY
25142 T C A GGAGCCAGCAGCTTCCTGAGTGGAGCATGGGACCCTCAAACACCTGCTC
25142 T T A GGAGCCAGCAGCTTCCTGAGTGGAGCATGGGACCCTCAAACACCTGCTC
25142 IS [CT] TTGCCAGAGGGCAGCACCTTCATGGACAGAGAGCAGGTGTTGAGGGTCCCATGCTCCAC[CT]CAGGAAGCTGCTGGCTCCACTAAGAGAATGGGCTTTGGGCCTGTTCAGTTTCTACCAATG ctg226n4 22
25175 I A CCCTGGAGCTCTGGGCACAGCTCC
25175 P G A ATGACGTGGCAGACGCAGGAGGAATTGCTGY
25175 P T A CGCGCCGAGGTCAGGAGGAATTGCTGGY
25175 T G A GCCTCCAGCAATTCCTCCTGCGAGCTGTGCCCAGAAGCTCCAGGGCC
25175 T T A GCCTCCAGCAATTCCTCCTGAGAGCTGTGCCCAGAAGCTCCAGGGCC
25175 IS [GT] GAGCAGAGCAGGCACAGGGAGGGGAAAAGAACACTGGCCCTGGAGCTTCTGGGCACAGCTC[GT]CAGGAGGAAATTGCTGGAGGCTTTGCACGATGCACAGGAGTGTCCAGAGCAGGGAAATAA A ctg226n6 22
25219 I S ACTTCAGGGGCCTATGAACCCCCTGAGATACT
25219 P T S CGCGCCGAGGAGGTTTGATTTTATGGGTAGGY
25219 P C S ATGACGTGGCAGACGGGTTTGATTTTATGGGTAGGY
25219 T T S TGCACCTACCCATAAAATCAAACCTGTATCTCAGGGGGTTCATAGGCCCCTGAAGTCC
25219 T C S TGCACCTACCCATAAAATCAAACCGGTATCTCAGGGGGTTCATAGGCCCCTGAAGTCC
25219 IS [TC] GATTTTGATGAGATCTAGACCCATAGCCCAGCAAAATGCACCTACCCATAAAATCAAACC[TC]GTATCTCAGGGGGTTCATAGGCCCCTGAAGTCCATCCATGATTGCTGGAATAACAGCATG ctg226n7 22
25344 I S GTTCCAAGCCACAGACGCCTGCCCA
25344 P A S CGCGCCGAGGTGAGTGGACTCTGCGY
25344 P G S ATGACGTGGCAGACCGAGTGGACTCTGCGY
25344 T A S TGGCCGCAGAGTCCACTCAGGGCAGGGCTCTGTGGCTTGGAACCT
25344 T G S TGGCCGCAGAGTCCACTCGGGGCAGGGCTCTGTGGCTTGGAACCT
25344 IS [AG] GGAGCCCTCACTGGGCAGCAGGGCCAGGAGGGCACCAGGGACTGGCCGCAGAGTCCACTC[AG]GGGCAGGCGTCTGTGGCTTGGAACCTGCCCTCGCCAAGCACTGGGGGGTTAAGGAGCAG ctg226n4 22
25347 I A ACACAGGGACCGGCCTGTCCT
25347 P G A ATGACGTGGCAGACGAGCCCATCAGCAAGY
25347 P A A CGCGCCGAGGAAGCCCATCAGCAAGAY
25347 T G A TGTCTCTTGCTGATGGGCTCGGCAGCGCCGGTCCCTGTGTGA
25347 T A A TGTCTCTTGCTGATGGGCTTGGCAGCGGCGGTCCCTGTGTGA
25347 IS [GA] CGCAAGGCAGCGGGGGATCTAAGTCCCCAGTGAGGTGCTCACACAGGGACCGGCCGTGCC[GA]AGCCCATCAGCAAGAGACACAAAGCTGGGCACGACACGTGGCCCTCCTTGCTGGGGAGCT ctg226n4 22
25355 I A CACCGGGAGCTACCTCCACTCCCACT
25355 P A A CGCGCCGAGGAACTGAGGCTGGTGCY
25355 P G A ATGACGTGGCAGACGACTGAGGCTGGTGCY
25355 T A A TGCTGCACCAGCCTCAGTTGTGGGAGTGGAGGTAGGTCCCGGTGTG
25355 T G A TGCTGCACCAGCCTCAGTCGTGGGAGTGGAGGTAGGTCCCGGTGTG
25355 IS [AG] GGCCACCCTGAGGCAGCATGGAACCGAGGCCCCCACACCGGGACCTACCTCCACTCCCAC[AG]ACTGAGGCTGGTGCAGCACACTAACAGCGAACAGGGCAGAAACCAGAAACAGCCCCATCC
25361 I S GCGGTCACCCCACGCCTCCGA
25361 P G S ATGACGTGGCAGACCGGCTCAGGAGCCY
25361 P A S CGCGCCGAGGTGGCTCAGGAGCCY
25361 T G S GGACGGCTCCTGAGCCGCGAGGCGTGGGGTGACCGCAG
25361 T A S GGACGGCTCCTGAGCCACGGAGGCGTGGGGTGACCGCAG
25361 IS [GA] TGCCCAACTGGACAAAAGTCACAGAAACTGGTCCTATGCACCCAGGACGCCTCCTGAGCC[GA]CGGAGGCGTGGGGTGACCGCAGCCGTCTCTTAGGTGTCTGCCACTAAAGATTCCTCATG ctg226n4 22 SGT
25487 I A CCAGGTGGTCTTGAAGAGGGGACACGAGA
25487 P T A CGCGCCGAGGTCTGTCCTCATCCTGGY
25487 P C A ATGACGTGGCAGACCCTGTCCTCATCCTGGY
25487 T T A AGTTCCAGGATGAGGACAGACTCGTGTCCCCTCTTCAAGACCACCTGGCC
25487 T C A AGTTCCAGGATGAGGACAGGCTCGTGTCCCCTCTTCAAGACCACCTGGCC
25487 IS [TC] GCTCCAGTTCGCCCTGCTTCCTCCTGCAGAGGCCAGGTGGTCTTGAAGAGGGGACACGAG[TC]CTGTCCTCATCCTGGAACTGTAAGGGATGCAGGGACATAGGCCAATCTGGCTGGACCCCT ctg226n6 22
25502 I A TGACCTGCCCCCTCCACCCGACT
25502 P A A CGCGCCGAGGACACACAACGGGTCAY
25502 P G A ATGACGTGGCAGACGCACACAACGGGTCY
25502 T A A CACATGACCCGTTGTGTGTGTCGGGTGGAGGGGGCAGGTCATA
25502 T G A CACATGACCCGTTGTGTGCGTCGGGTGGAGGGGGCAGGTCATA
25502 IS [AG] CAGGGCTCAGAGGAAACATTCAAATTCCTCAGTCCTTATGACCTGCCCCCTCCACCCGAC[AG]CACACAACGGGTCATGTGATTCCCCTCGTTCCCCCATGAACATCTGGGCTCCAGCCAAGA ctg226n4 22
25508 I S CCATGGCCACAAATAGGCAGTTTACAGCATGAAATCATCT
25508 P C S ATGACGTGGCAGACGGGAAAGCAAACACTTCAY
25508 P T S CGCGCCGAGGAGGAAAGCAAACACTTCAY
25508 T C S TCCCTGAAGTGTTTGCTTTCCCGATGATTTCATGCTGTAAACTGCCTATTTGTGGCCATGGCC
25508 T T S TCCCTGAAGTGTTTGCTTTCCTGATGATTTCATGCTGTAAACTGCCTATTTGTGGCCATGGCC
25508 IS [CT] AATGAAACAATAGATTTCTTGGTCTTGCTTCAAGTGAAATCCCTGAAGTGTTTGCTTTCC[CT]GATGATTTCATGCTGTAAACTGCCTATTTGTGGCCATGGCCCATGAGCATAAAGCAGCAT ctg226n4 22
25514 I A TGTCTGTGGTAGCACCTACATTTGTGTTACTCATGACCAT
25514 P A A CGCGCCGAAGGATGCAGCTTTCAAGTTTATGY
25514 P G A ATGACGTGGCAGACGTGCAGCTTTCAAGTTTATGY
25514 T A A GTGTCATAAACTTGAAAGCTGCATTGGTCATGAGTAACACAAATGTAGGTGCTACCACAGACAGC
25514 T G A GTGTCATAAACTTGAAAGCTGCACTGGTCATGAGTAACACAAATGTAGGTGCTACCACAGACAGC
25514 IS [AG] AAGTTTGAAATGCCCACCAGCTGTCTGTGGTAGCAACTACATTTGTGTTACTCATGACCA[AG]TGCAGCTTTCAAGTTTATGACACGTGGCACCCCCTGAGCTTAACTACCTGGTTGCTAATG ctg226n4 22
25548 I A CCCTTTCTTTTCTTCTTTCTTCTGGGTCCTCATATTTGTCTTTCTAATGTCTAC
25548 P T A CGCGCCGAGGTTCTCATAGTTTTTAGATGGATCAY
25548 P G A ATGACGTGGCAGACGTCTCATAGTTTTTAGATGGATCAY
25548 T T A CAAATGATCCATCTAAAAACTATGAGAATAGACATTAGAAAGACAAATATGAGGACCCAGAAGAAAGAAGAAAAGAAAGGGAA
25548 T G A CAAATGATCCATCTAAAAACTATGAGACTAGACATTAGAAAGACAAATATGAGGACCCAGAAGAAAGAAGAAAAGAAAGGGAA
25548 IS [TG] TTTATTTCCCTTTCTTTTCTTCTTTCTTCTGGGTCCTCATATTTGTCTTTCTAATGTCTA[TG]TCTCATAGTTTTTAGATGGATCATTTGGAAGCAGAGAACCTTATAATCACAGACTTTTTT ctg226n4 22
25569 I S CTGCCTCTGCAAATTGCCTGGTGCTCACT
25569 P T S CGCGCCGAGGAACTGCCTAAGCTAAAGCY
25569 P C S ATGACGTGGCAGACGACTGCCTAAGCTAAAGCY
25569 T T S ATAAGCTTTAGCTTAGGCAGTTGTGAGCACCAGGCAATTGCAGAGGCAGTG
25569 T C S ATAAGCTTTAGCTTAGGCAGTCGTGAGCACCAGGCAATTGCAGAGGCAGTG
25569 IS [TC] TAAGCCCTACTGGGTCTGATATGCTTTCTATCTTAAGGATAAGCTTTAGCTTAGGCAGT[TC]GTGAGCACCAGGCAATTGCAGAGGCAGTGAACTCACCATCTTCCCTTTCTGAGGGGTTGG ctg226n4 22
25588 I S GCCTGAAGAATTGAATCACTGTGTCACTATCTTTTAGAGAAAT
25588 P C S ATGACGTGGCAGACGGCCAAACAACAAATTTGTY
25588 P T S CGCGCCGAGGAGCCAAACAACAAATTTGTCY
25588 T C S CAAGGACAAATTTGTTGTTTGGCCTTTCTCTAAAAGATAGTGACACAGTGATTCAATTCTTCAGGCAG
25588 T T S CAAGGACAAATTTGTTGTTTGGCTTTTCTCTAAAAGATAGTGACACAGTGATTCAATTCTTCAGGCAG
25588 IS [CT] ACAAGTCAGAAACAGCACATTCTTCCTGGATTAAATTCAAGGACAAATTTGTTGTTTGGC[CT]TTTCTCTAAAAGATAGTGACACAGTGATTCAATTCTTCAGGCAGTGTATTACCCAAAGAT ctg226n5 22

FIGURE 129F

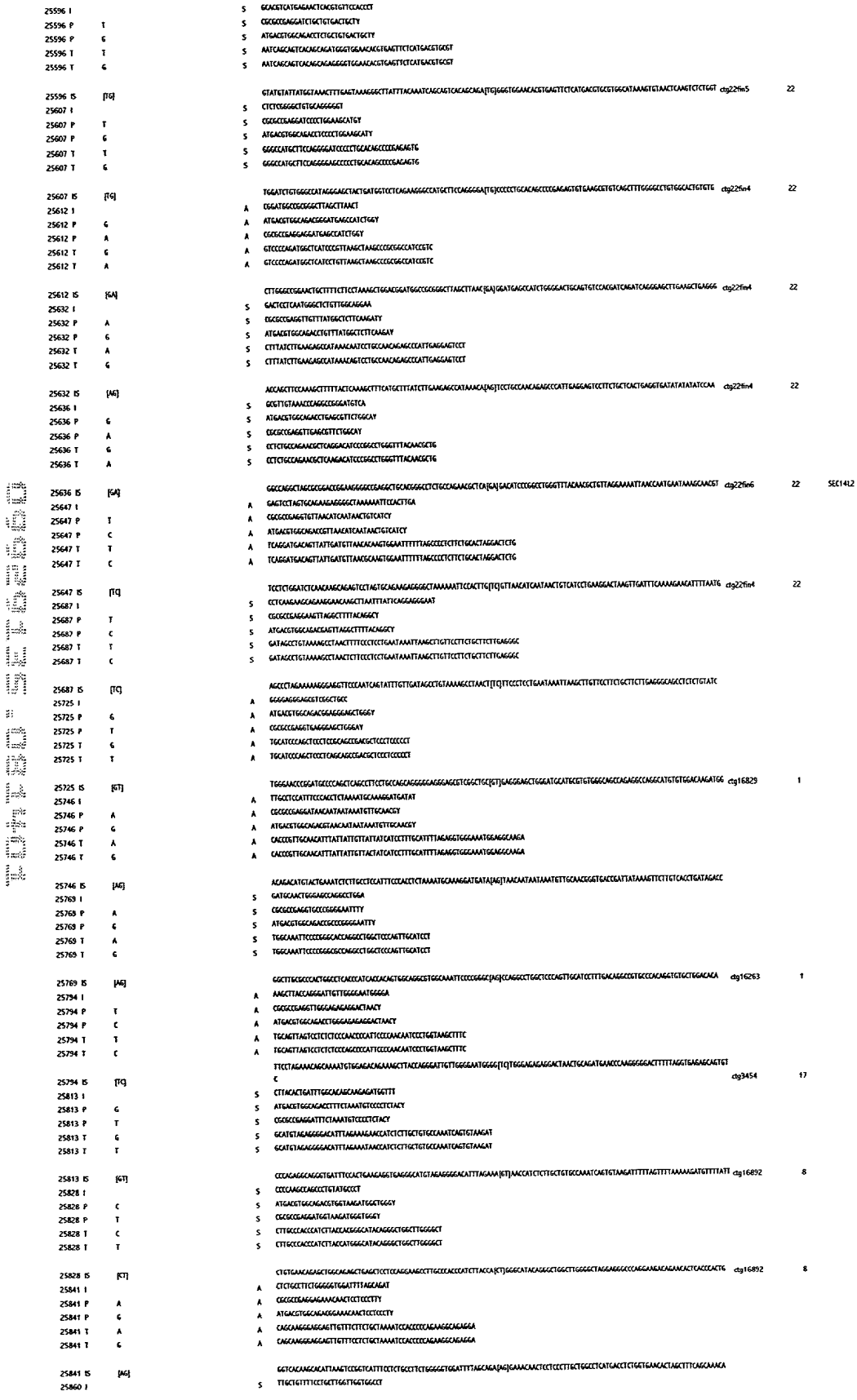


FIGURE 129F

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25860 P   C    S  ATGACGTGGCAGACGTGTAGACCTTCTTCTGATCY
25860 P   T    S  CGCGCCCAGGATGTAGACCTTCTTTCTGATCY
25860 T   C    S  CAGGGATCAGAAAGAAGGTCTACACGGCCACCAACCAAGCAGGAAAACAGCAAAC
25860 T   T    S  CAGGGATCAGAAAGAAGGTCTACATGGCCACCAACCAAGCAGGAAAACAGCAAAC

                    GCTCAGGGGCAGGAACAGCAAATCTCAGCCAGATATCAGGGATCAGAAAGAAGGTCTACA[CT]GGCCACCAACCAAGCAGGAAAACAGCAAACCTGAAACTTCACGGTTGGCTCCCACCCCAA
25860 IS  [CT]
25873 I          S  TTCCATTAGCATCTCTGTTTTTCTGAGTCTGGCAGCTTTCT
25873 P   C    S  ATGACGTGGCAGACGTTTGCTCACCAAATGTAGY
25873 P   T    S  CGCGCCGAGGATTTGCTCACCAAATGTAGTY
25873 T   C    S  TATAACTACATTTGGTGAGCAAACGAAAGCTGCCAGACTCAGAAAAACAGAGATGCTAATGGAACT
25873 T   T    S  TATAACTACATTTGGTGAGCAAATGAAAGCTGCCAGACTCAGAAAAACAGAGATGCTAATGGAACT

                    GAGAAGCATTTACTTACAAAGCAGTCCGAAATTTGTGTATAACTACATTTGGTCAGCAAA[CT]CAAAGCTGCCAGACTCAGAAAACAGAGATGCTAATGGAACTGACTTTAGTAACCAGGGT
25873 IS  [CT]
25885 I          S  CTCTTCCCTGAAACTTGCATGCAGTGCGGTAAC
25885 P   A    S  CGCGCCGAGGTGTACTGTAGAAAGCATGTTATY
25885 P   T    S  ATGACGTGGCAGACAGTACTGTAGAAAGCATGTTATCY
25885 T   A    S  ATGAGATAACATGCTTTCTACAGTACATTACCGCACTGCATGCAAGTTTCAGGGAAGAGAG
25885 T   T    S  ATGAGATAACATGCTTTCTACAGTACTTTACCGCACTGCATGCAAGTTTCAGGGAAGAGAG

                    CCCTCCCTATTATTGGCAGACAATATGGTGACATAATGAGATAACATGCTTTCTACAGTAC[AT]TTACCGCACTGCATGCAAGTTTCAGGGAAGAGAGGGCCAAAATGGTTCTGACTTATATAA ctg16105   S
25885 IS  [AT]
25907 I          S  GCAGAGGCGGGGCCGGGAT
25907 P   C    S  ATGACGTGGCAGACGCGAGGCGTAGGGY
25907 P   G    S  CGCGCCGAGGCCGAGGCGTAGGGY
25907 T   C    S  CACCCCCTACGCCTCGCTCCCGCCCCCGCCTCTGCCC
25907 T   G    S  CACCCCCTACGCCTGGTCCCGCCCCGCCTCTGCCC

                    ACGTCCCTTACCAACCGCGAGAGCCCCCTACTGCGCTTTGGCCACACCCCCTACGCCTCG[CG]TCCCGGCCCCGCCTCTGCCCCTGACCGCGCCTGCGCAAGGCGGGCCGCCCTAAAGTCCTAT   ctg16105   S
25907 IS  [CG]
25936 I          A  CAAACACATTTTCTTCCCTAAAGGCAAAAGGAAAAAAATAATTATCAATTCC
25936 P   G    A  ATGACGTGGCAGACGTGTGGAGTACGTTGGAT
25936 P   T    A  CGCGCCGAGGTTGTGGAGTACGTTGGAT
25936 T   G    A  CATTTCCAACGTACTCCACACAGAATTGATAATTATTTTTTCCTTTGCCTTTAGGGAAGAAAATGTGTTTGTA
25936 T   T    A  CATTTCCAACGTACTCCACACAGAATTGATAATTATTTTTTCCTTTGCCTTTAGGGAAGAAAATGTGTTTGTA

                    GGTGTCTTACAAACACATTTTCTTCCCTAAAGGCAAAAGGAAAAAAATAATTATCAATTC[GT]GTGGAGTACGTTGGAAATGTAATGCACACAGAAAAGATGTTTGCTGTATGACAGCAATTTG ctg14391   11
25936 IS  [GT]
25937 I          A  CCCCTTGCCCTACTAATGTACACATTATATATCTTTCACATAAGAATAT
25937 P   C    A  ATGACGTGGCAGACCAAAGGCTAAAGGTAGAGATAGY
25937 P   A    A  CGCGCCGAGGAAAAGGCTAAAGGTAGAGATAGY

25937 T   C    A  ATATCTATCTCTACCTTTAGCCTTTGTATTCTTATGTGAAAGATATATAATGTGTACATTAAGTAGGGCAAGGGGAG

25937 T   A    A  ATATCTATCTCTACCTTTAGCCTTTTATTCTTATGTGAAAGATATATAATGTGTACATTAAGTAGGGCAAGGGGAG

                    GGTACATTTCTCCCCTTGCCCTACTTAATGTACACATTATATATCTTTCACATAAGAATA[CA]AAAGGCTAAAGGTAGAGATAGATATTGTAAATTATCAATGAGCCAGAAAAGACTAGTCCA ctg14391   11
25937 IS  [CA]
25982 I          A  CCCAGAAGTGGGCTCCTCCCACACAA
25982 P   C    A  ATGACGTGGCAGACCGGGTGTTAGGAGGAGY
25982 P   T    A  CGCGCCGAGGTGGGTGTTAGGAGGAGY
25982 T   C    A  GTTTCTCCTCCTAACACCCGTGTGTGGGAGGAGCCCACTTCTGGGCG
25982 T   T    A  GTTTCTCCTCCTAACACCCATGTGTGGGAGGAGCCCACTTCTGGGCG

                    CGTGCTGACTGCACTTTTCCAATGCAAGATGCCCGCCCAGAAGTGGGCTCCTCCCACACA[CT]GGGTGTTAGGAGGAGCAAACAGAGGCGTCTATAATCCTCTCAGGCTGCCCCAGCAGAGAAA ctg13446   1
25982 IS  [CT]
26000 I          S  CAGGCTACATAAGGATCATTCAGTAAAACTGTAGATTTATTAACATGTTTATCTAA
26000 P   A    S  CGCGCCGAGGTTGCTCTGCTCACCAY
26000 P   G    S  ATGACGTGGCAGACCTGCTCTGCTCACCAY

26000 T   A    S  GGAATGGTGAGCAGACAATAGATAAACATGTTAATAAATCTACAGTTTTACTGAATGATCCTTATGTAGCCTGCC

26000 T   G    S  GGAATGGTGAGCAGAGCAGTAGATAAACATGTTAATAAATCTACAGTTTTACTGAATGATCCTTATGTAGCCTGCC

                    GATGAAGAAAGGAACCCAAAAGGAGAGAATGAGGTACAAGAAGGAATGGTGAGCAGAGCA[AG]TAGATAAACATGTTAATAAATCTACAGTTTTACTGAATGATCCTTATGTAGCCTGCCTT
26000 IS  [AG]                 A
26062 I          S  CTCTAAGAGAAGTTCATGATTTTACTCCCCGTGCCACCA
26062 P   G    S  ATGACGTGGCAGACCGCGTGGGAGATGCY
26062 P   A    S  CGCGCCGAGGTGCGTGGGAGATGCY
26062 T   G    S  GGCTGCATCTCCCACGCGGGTGGCAGGGGAGTAAAATCATGAACTTCTCTTAGAGTC
26062 T   A    S  GGCTGCATCTCCCACGCAGGTGGCACGGGGAGTAAAATCATGAACTTCTCTTAGAGTC

                    GGAGTGCCAGCAGGCTGCCAAGGGGCTCCATTAGTAACACGCAGGCTGCATCTCCCACGC[GA]GGTGGCACGGGGAGTAAAATCATGAACTTCTCTTAGAGTCTCTTGTGAGACATTAATTTT ctg12414   1
26062 IS  [GA]
26068 I          A  AGGGCCACCTGCCGCAGCAAT
26068 P   G    A  ATGACGTGGCAGACGGGCTGCTTTCAAGY
26068 P   A    A  CGCGCCGAGGAGGGCTGCTTTCAAGAY
26068 T   G    A  CCACTCTTGAAAGCAGCCCCTTGCTGCGGCAGGTGGCCCTGG
26068 T   A    A  CCACTCTTGAAAGCAGCCCTTGCTGCGGCAGGTGGCCCTGG

                    CCTCAGTGCCCAGGAGGGTAAGCCCCCTAGGACTGGCACCAGGGCCACCTGCCGCAGCAA[GA]GGGCTGCTTTCAAGAGTGGCTGGGCATGGCTATTGGTCACTGCACCTCACAGGCACCGAG ctg15907   6
26086 IS  [GA]
26086 I          S  CCCACCACGGCCCCCTGGA
26086 P   G    S  ATGACGTGGCAGACCCGTGCCTCGGGY
26086 P   A    S  CGCGCCGAGGTCGTGCCTCGGGY
26086 T   G    S  AGCGCCCGAGGCACGACCAGGGGGCGCGTGGTGGGAC
26086 T   A    S  AGCGCCCGAGGCACGACCAGGGGGCGCGTGGTGGGAC

                    CTACAGCTTGCTCACTAGCTCAAAGCAAACGCACGTGGCTCCGGCAGCGCCCCAGGCACG[GA]CCAGGGGGGCGCGTGGTGGGACCCGCTCCTACTTCGCGCAGAGGCCAGGGGGTAAAGAGGCG ctg25114   1   NROB1
26104 I          A  TGGCAGACCCCGCCCCCT
26104 P   G    A  ATGACGTGGCAGACGGGTAACTGTGTTTACGTGY
26104 P   A    A  CGCGCCGAGGAGGTAACTGTGTTTACGTGY
26104 T   G    A  CCTCCACGTAAACACAGTTACCCGGGGGCGGGGTCGTGCCAGA
26104 T   A    A  CCTCCACGTAAACACAGTTACCTGGGGGCGGGGTCGTGCCAGA

                    CCCGCACAATGGGCTTGCATCCCTCCCAGTAACGGGAGCCTCTGGCACGCACCCCGCCCCC[GA]GGGTAACTGTGTTTACGTGGGAGGCAGTAACAAGCTAGCGTTGATTGTCCATGGACGTTGCT ctg1565   1
26106 IS  [GA]
26106 I          A  AGGGGGCAGCACTGGGCCCT
26106 P   A    A  CGCGCCGAGGACCTCGCTGAAGGGY
26106 P   C    A  ATGACGTGGCAGACCCCTCGCTGAAGGGY
26106 T   A    A  GAGGCCCTTCAGCGAGGGTGGGCCCAGTGCTGCCCCCTTC
26106 T   C    A  GAGGCCCTTCAGCGAGGGGGCCCAGTGCTGCCCCCTTC

                    CCGTGGGCTAGACAGGGTCCTGGGCAGGGGAGAGGCGGGGAAGGGGCAGCACTGGGCCC[AC]CCTCGCTGAAGGGCCTCCTGCAGCTTCTCGTGCTTGGCCTGCAGCTTGGCGAGGATGCTC ctg14747   2
26120 I          A  GAGGATGTTCAACACCACTCGGATCCCGGT
26120 P   G    A  ATGACGTGGCAGACGCAAGGACACAGGTAACY
26120 P   A    A  CGCGCCGAGGACAAGGACACAGGTAACTY
26120 T   G    A  GCTCAGTTACCTGTGTCCTTGCCCGGGATCCGAGTGGTGTTGAACATCCTCTC
26120 T   A    A  GCTCAGTTACCTGTGTCCTTGTCCGGGATCCGAGTGGTGTTGAACATCCTCTC
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Confidential and Proprietary Information

FIGURE 129F

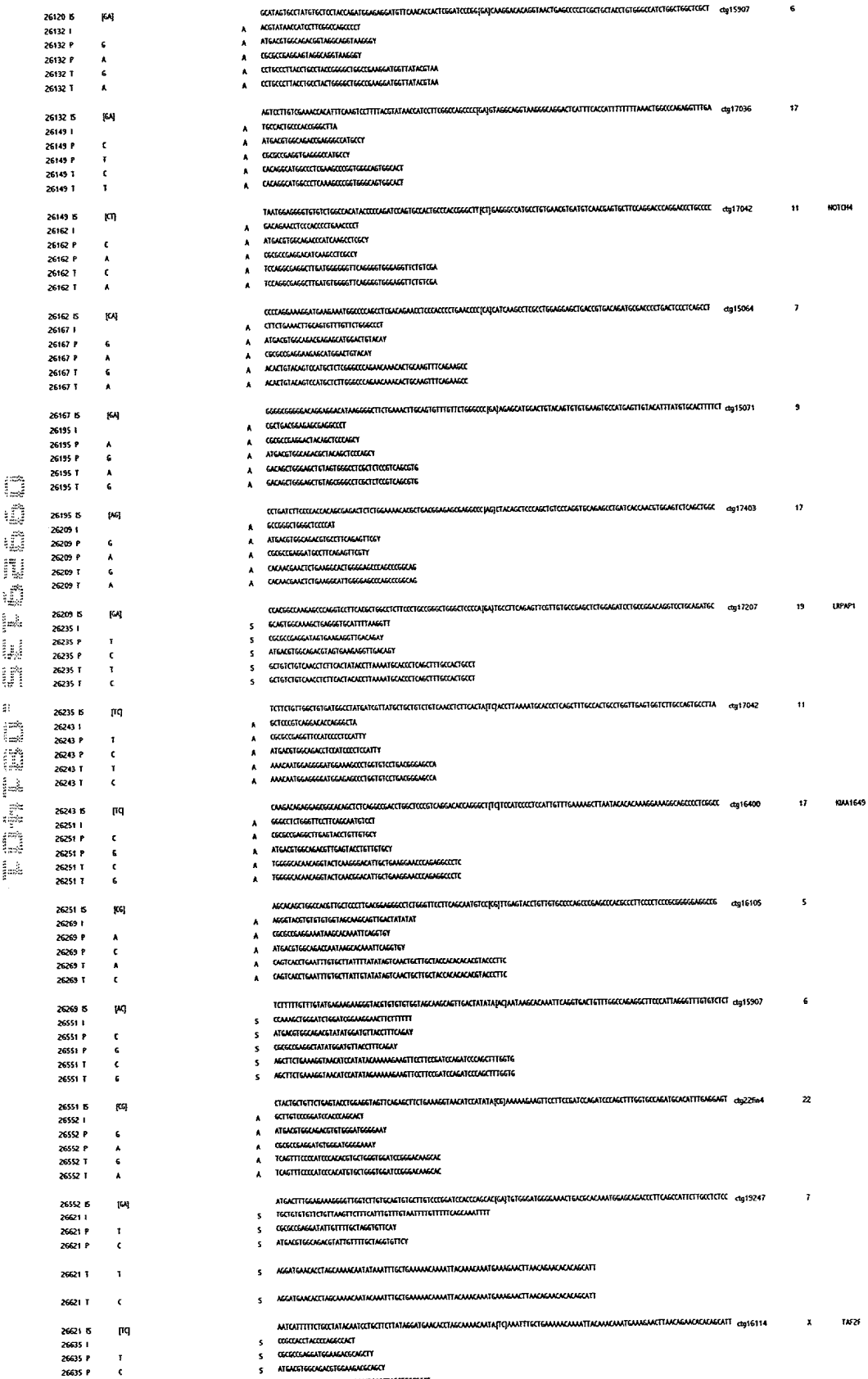
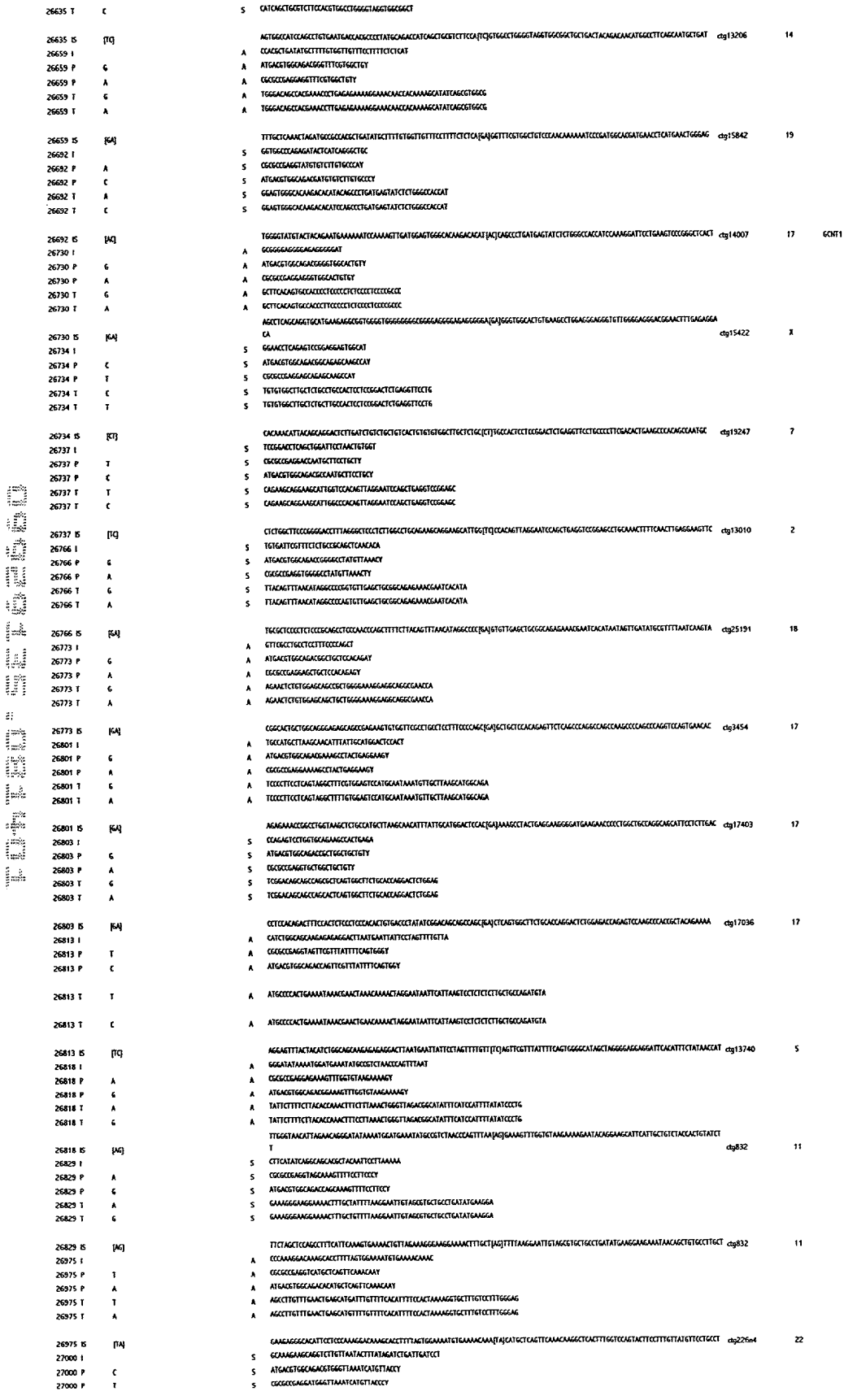
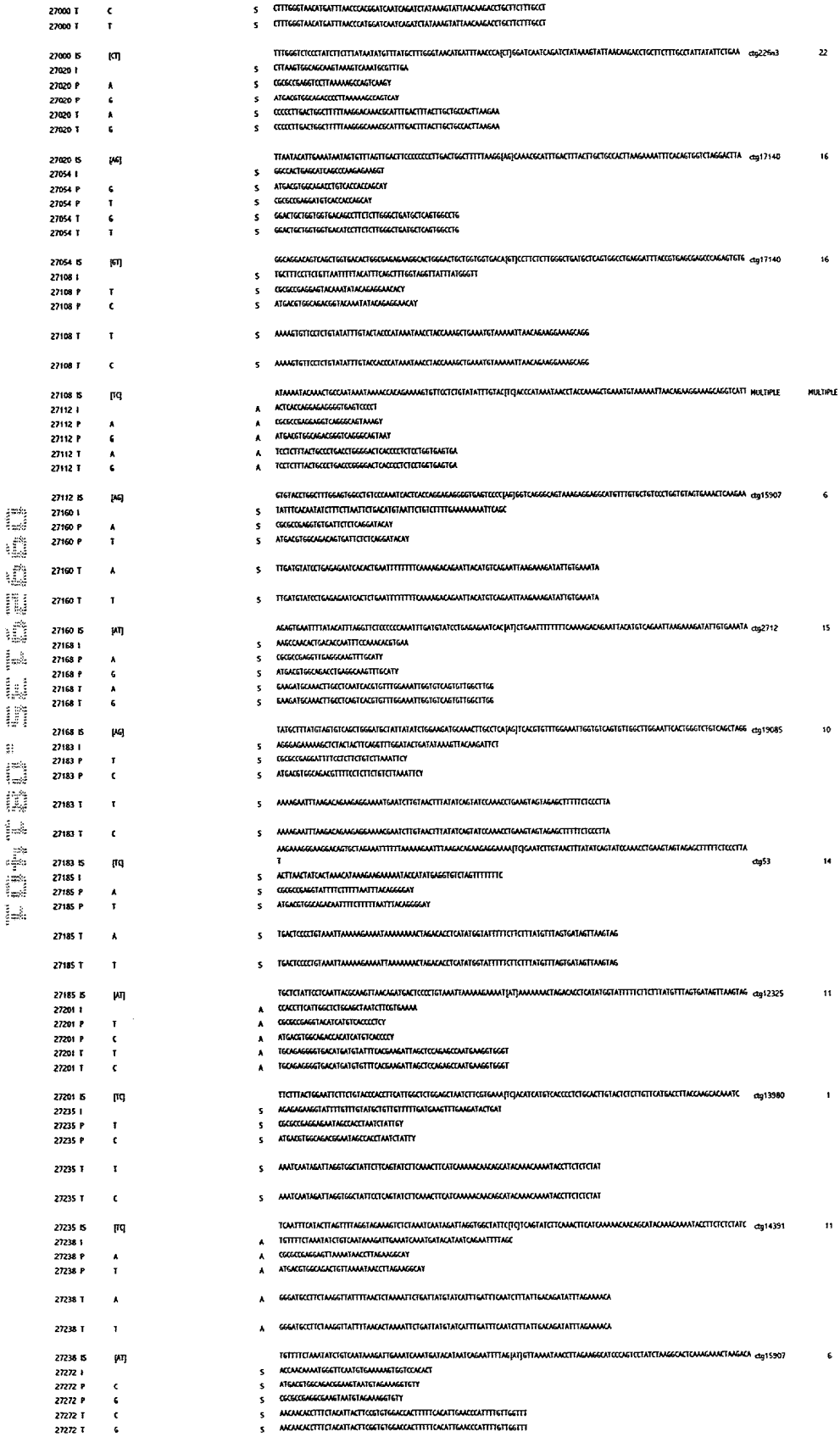

26120 IS [GA] GCATAGTGCCTATGTGCTCCTACCAGATGGAGAGGATGTTCAACACCACTCGGATCCCGG[GA]CAAGGACACAGGTAACTGAGCCCCCTCGCTGCTACCTGTGGGCCATCTGGCTGGCTCGCT ctg15907 6
26132 I A ACGTATAACCATCCTTCGGCCAGCCCCT
26132 P G A ATGACGTGGCAGACGGTAGGCAGGTAAGGGY
26132 P A A CGGCCCGAGGAGTAGGCAGGTAAGGGY
26132 T G A CCTGCCCTTACCTGCCTACCCGGGCTGGCCGAAGGATGGTTATACGTAA
26132 T A A CCTGCCCTTACCTGCCTACTGGGGCTGGCCGAAGGATGGTTATACGTAA
26132 IS [GA] AGTCCTTGTCGAAACCACATTTCAAGTCCTTTTACGTATAACCATCCTTCGGCCAGCCCC[GA]GTAGGCAGGTAAGGGCAGGACTCATTTCACCATTTTTTTTAAACTGGCCCAGAGGTTTGA ctg17036 17
26149 I A TGCCACTGCCCACCGGGCTTA
26149 P C A ATGACGTGGCAGACCGAGGCCATGCCY
26149 P T A CGCGCCGAGGTGAGGGCCATGCCY
26149 T C A CACAGGCATGGCCCTCGAAGCCCGGTGGGCAGTGGCACT
26149 T T A CACAGGCATGGCCCTCAAAGCCCGGTGGGCAGTGGCACT
26149 IS [CT] TAATGGAGGGGTGTGTCTGGCCACATACCCCAGATCCAGTGCCACTGCCCACCGGGCTT[CT]GAGGGCCATGCCTGTGAACGTGATGTCAACGAGTGCTTCCAGGACCCAGGACCCTGCCCC ctg17042 11 NOTCH4
26162 I A GACAGAACCTCCCACCCCTGAACCCCT
26162 P C A ATGACGTGGCAGACCCATCAAGCCTCGCY
26162 P A A CGCGCCCAGGACATCAAGCCTCGCCY
26162 T C A TCCAGGCGAGGCTTGATGGGGGGTTCAGGGGTGGGAGGTTCTGTCGA
26162 T A A TCCAGGCGAGGCTTGATGTGGGGTTCAGGGGTGGGAGGTTCTGTCGA
26162 IS [CA] CCCCAGGAAAGGATGAAGAAATGGCCCCAGCCTGAACAGAACCTCCCACCCCTGAACCCC[CA]CATCAAGCCTCGCCTGGAGGAGCTGACCGTGACAGATGGCACCCCTGACTCCCTCAGCCT ctg15064 7
26167 I A CTTCTGAAACTTGCAGTGTTTGTTCTGGGCCCT
26167 P G A ATGACGTGGCAGACAGAGACATGGACTGTACAY
26167 P A A CGCGCCGAGGAAGAGCATGGACTGTACAY
26167 T G A ACACTGTACAGTCCATGCTCTCGGGCCCAGAACAAACACTGCAAGTTTCAGAAGCC
26167 T A A ACACTGTACAGTCCATGCTCTTGGGCCCAGAACAAACACTGCAAGTTTCAGAAGCC
26167 IS [GA] GGGGGGGGGGACAGGAGGACATAAGGGGCTCTCAAACTTGCAGTGTTTGTTCTGGGCCC[GA]AGAGCATGGACTGTACAGTGTGTGAAGTGCCATGAGTTGTACATTTATGTGCACTTTTCT ctg15071 9
26195 I A CGCTGACGGAGAGCGAGGCCCT
26195 P A A CGCGCCCAGGACTACAGCTCCCAGCY
26195 P G A ATGACGTGGCAGACGCTACAGCTCCCAGCY
26195 T A A GACAGCTGGGAGCTGTAGTGGGCCTCGCTCTCCGTCAGCGTG
26195 T G A GACAGCTGGGAGCTGTAGCGGGCCTCGCTCTCCGTCAGCGTG
26195 IS [AG] CCTGATCTTCCCCACCACAGCGAGACTCTCTGGAAAACACGCTGACGGAGAGCGAGGCCC[AG]CTACAGCTCCCAGCTGTCCCAGGTGCAGAGCCTGATCACCAACGTGGAGTCTCAGCTGGC ctg17403 17
26209 I A GCCGGCTGGGCTCCCCAT
26209 P G A ATGACGTGGCAGACGTGCCTTCAGAGTTCGY
26209 P A A CGCGCCGAGGATGCCTTCAGAGTTCGTY
26209 T G A CACAACGAACTCTGAAGGCACTGGGGAGCCCAGCCCGGCAG
26209 T A A CACAACGAACTCTGAAGGCATTGGGGAGCCCAGCCCGGCAG
26209 IS [GA] CCACGGCCAAGAGCCCAGGTCCTTCAGGCTGGCCTCTTCCCTGCCGGGCTGGGCTCCCCA[GA]TGCCTTCAGAGTTCGTTGTGCCGAGCTCTGGAGATCCTGCCGCGACAGGTCCTGCAGATGC ctg17207 19 LRPAP1
26235 I S GCAGTGGCAAAGCTGAGGGTGCATTTTAAGGTT
26235 P T S CGCGCCGAGGATAGTGAAGAGGTTGACAGAY
26235 P C S ATGACGTGGCAGACGTAGTGAAGAGGTTGACAGY
26235 T T S GCTGTCTGTCAACCTCTCACTATACCTTAAAATGCACCCTCAGCTTTGCCACTGCCT
26235 T C S GCTGTCTGTCAACCTCTTCACTACACCTTAAAATGCACCCTCAGCTTTGCCACTGCCT
26235 IS [TC] TCTTCTGTTGGCTGTGATGGCCTATGATCGTTATGCTGCTGTCTGTCAACCTCTTCACTA[TC]ACCTTAAAATGCACCCTCAGCTTTGCCACTGCCTTA ctg17042 11
26243 I A GCTCCCGTCAGGACACCAGGGCTA
26243 P T A CGCGCCGAGGTTCCATCCCCTCCATTY
26243 P C A ATGACGTGGCAGACCTCCATCCCCTCCATTY
26243 T T A AAACAATGGAAGGGGATGGAAAGCCCTGGTGTCCTGACGGGAGCCA
26243 T C A AAACAATGGAAGGGGATGGAGAGCCCTGGTGTCCTGACGGGAGCCA
26243 IS [TC] CAAGACAGAGGAGAGGGCAGAGCTCTCAGGCCGACCTGGCTCCCGTCAGGACACCAGGGCT[TC]TCCATCCCCTCCATTGTTTGAAAAGCTTAATACACACAAAGGAAAGGCAGCCCCTCGGCC ctg16400 17 KIAA1649
26251 I A GGGCCTCTGGGTTCCTTCAGCAATGTCCT
26251 P C A CGCGCCGAGGCTTGAGTACCTGTTGTGCY
26251 P G A ATGACGTGGCAGAGTTGAGTACCTGTTGTGCY
26251 T C A TGGGGCACAACAGGTACTCAAGGGACATTGCTGAAGGAACCCAGAGGCCCTC
26251 T G A TGGGGCACAACAGGTACTCAACGGACATTGCTGAAGGAACCCAGAGGCCCTC
26251 IS [CG] AGCACAGCTGGCCACGTTGCTCCCTGACGGAGGGCCTCTGGGTTCCTTCAGCAATGTCC[CG]TTGAGTACCTGTTGTGCCCCAGCCCGAGCCCACGCCCTTCCCCTCCCGCGGGGGAGGCCG ctg16105 5
26269 I A AGGGTAGGTGTGTGGTAGCAAGCAGTTGACTATATAT
26269 P A A CGCGCCGAGGAAATAAGCACAAATTCAGGTGY
26269 P C A ATGACGTGGCAGACAATAAGCACAAATTCAGGTGY
26269 T A A CAGTCACCTGAATTTGTGCTTATTTTATATAGTCAACTGCTTGCTACCACACACACGTACCCTTC
26269 T C A CAGTCACCTGAATTTGTGCTTATTGTATATAGTCAACTGCTTGCTACCACACACAGTACCCTTC
26269 IS [AC] TCTTTTGTTTGTATGAGAAGAAGGGTACGTGTGTGTGGTAGCAAGCAGTTGACTATATA[AC]AATAAGCACAAATTCAGGTGACTGTTTGGCCAGAGGCTTCCCATTAGGGTTTGTGTCTCT ctg15907 6
26551 I S CCAAAGCTGGGATCTGGATGGAAGGAACTTCTTTTTT
26551 P C S ATGAGGTGGGCAGACGTATATGGATGTTACCTTTCAGAY
26551 P G S CGCGCCCAGGCTATATGGATGTTACCTTTCAGAY
26551 T C S AGCTTCTGAAAGGTAACATCCATATACAAAAAGAAGTTCCTTCCGATCCAGATCCCAGCTTTGGTG
26551 T G S AGCTTCTGAAAGGTAACATCCATATAGAAAAAGAAGTTCCTTCCGATCCAGATCCCAGCTTTGGTG
26551 IS [CG] CTACTGCTGTTCTGAGTACCTGGAGGTAGTTCAGAGCTTCTGAAAGGTAACATCCATATA[CG]AAAAAGAAGTTCCTTCCGATCCAGATCCCAGCTTTGGTGCCAGATGCACATTTGAGGAGT ctg22fin4 22
26552 I A GCTTGTCCCCGGATCCACCCAGCACT
26552 P G A ATGACGTGGCAGACGTGTGGGATGGGGAAT
26552 P A A CGCGCCGAGGATGTGGGATGGGGAAAT
26552 T G A TCAGTTTCCCCATCCCACACGTGCTGGGTGGATCCGGGACAAGCAC
26552 T A A TCAGTTTCCCCATCCCACATGTGCTGGGTGGATCCGGGACAAGCAC
26552 IS [GA] ATGACTTTGGAGAAAGGGGTTGGTCTTGTGCAGTGTGCTTGTCCCGGATCCACCCAGCAC[GA]TGTGGGATGGGGAAACTGACGCACAAATGGAGCAGACCCTTCAGCCATTCTTGCCTCTCC ctg19247 7
26621 I S TGCTGTGTGTCTGTTAAGTTCTTTCATTTGTTTGTAATTTTGTTTTTCAGCAAATTTT
26621 P T S CGCGCCGAGGATATTGTTTTGCTAGGTGTTCAY
26621 P C S ATGACGTGGCAGACGTATTGTTTTGCTAGGTGTTCY
26621 T T S AGGATGAACACCTAGCAAACAATATAAATTTGCTGAAAAACAAAATTACAAACAAATGAAAGAACTTAACAGAACACACAGCATT
26621 T C S AGGATGAACACCTAGCAAACAATACAAATTTGCTGAAAAACAAAATTACAAACAAATGAAAGAACTTAACAGAACACACAGCATT
26621 IS [TC] AATCATTTTTCTGCCTATACAATCGTGCTTCTTATAGGATGAACACCTAGCAAACAATA[TC]AAATTTGCTGAAAAACAAAATTACAAACAAATGAAAGAACTTAACAGAACACACAGCATT ctg16114 X TAF2F
26635 I S CCGCCACCTACCCCAGGCCACT
26635 P T S CGCGCCGAGGATGGAAGACGCAGCTY
26635 P C S ATGACGTGGCAGACGTGGAAGACGCAGCY
26635 T T S CATCAGCTGCGTCTTCCATGTGGCCTGGGGTAGGTGCCGGCT

FIGURE 129F



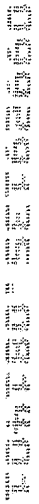
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FIGURE 129F



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FIGURE 129F



27465	P	A	S	CGCGCCGAGGTTTTCAATAAAAGCACTGTGTCY		
27465	T	G	S	CTATGACACAGTGCTTTTATTGAAAGAATTGTTTTTTACTGATTTAGACATTGATTTTTATTATCCACAGCTGTGTGCCTGTAT		
27465	T	A	S	CTATGACACAGTGCTTTTATTGAAAAAATTGTTTTTTACTGATTTAGACATTGATTTTTATTATCCACAGCTGTGTGCCTGTAT		
27465	IS	[GA]		GGACTATTAAGGAAGAAAAAATTCTGCTAATTAAACTATGACACAGTGCTTTTATTGAAA[GA]AATTGTTTTTTACTGATTTAGACATTGATTTTTATTATCCACAGCTGTGTGCCTGTATGA	ctg25099	7
27469	I		S	CAGACCTTAAGATAACAGCTCCCTTCCCACCCTTAAATT		
27469	P	C	S	ATGACGTGGCAGACGAAATAAAAACAAACAAAACCATGY		
27469	P	T	S	CGCGCCGAGGAAAATAAAAACAAACAAAACCATGGY		
27469	T	C	S	GGCCCCATGGTTTTGTTTGTTTTTATTTCATTTAAGGGTGGGAAGGGAGCTGTTATCTTAAGGTCTGCA		
27469	T	T	S	GGCCCCATGGTTTTGTTTGTTTTTATTTTATTTAAGGGTGGGAAGGGAGCTGTTATCTTAAGGTCTGCA		
27469	IS	[CT]		ATGCTGCCCACAGCCATCACTGTAAACATGCCGGCCCCATGGTTTTGTTTGTTTTTATTT[CT]ATTTAAGGGTGGGAAGGGAGCTGTTATCTTAAGGTCTGCAAGGAAAGTGAGATGCTGGAA	ctg15424	2
27473	I		A	CAAAAGCCAACCACCTTCTGCAAGCTTTGTGGT		
27473	P	A	A	CGCGCCGAGGAGCTGTGGATCAGAGGY		
27473	P	C	A	ATGACGTGGCAGACCGCTGTGGATCAGAGGY		
27473	T	A	A	GCAGCCTCTGATCCACAGCTCCACAAAGCTTGCAGAAGGTGGTTGGCTTTTGTT		
27473	T	C	A	GCAGCCTCTGATCCACAGCGCCACAAAGCTTGCAGAAGGTGGTTGGCTTTTGTT		
27473	IS	[AC]		CTCCCGATAAGTCTTGTTAGATTCAGAACAAAAGCCAACCACCTTCTGCAAGCTTTGTGG[AC]GCTGTGGATCAGAGGCTGCACCAGCCATGTGAGGACACTGCGCTCTCCTAGCCTAGGTTT		
27484	I		A	GAGGGCAGAGAGAAATCTGTGGTCTGAGGAAGAGC		
27484	P	T	A	CGCGCCGAGGTTGACAAGGGCCTGTY		
27484	P	A	A	ATGACGTGGCAGACATGACAAGGGCCTGTY		
27484	T	T	A	AGCCACAGGCCCTTGTCAACTCTTCCTCAGACCACAGATTTCTCTCTGCCCTCCA		
27484	T	A	A	AGCCACAGGCCCTTGTCATCTCTTCCTCAGACCACAGATTTCTCTCTGCCCTCCA		
27484	IS	[TA]		AAATGGGAAAAAACAGTAGGAGCATGGAGGGCAGAGAGAAATCTGTGGTCTGAGGAAGAG[TA]TGACAAGGGCCTGTGGCTGTTTTCATGGACTAAGGGAGGAGGCTGGAGACTTCAGAAGGT	ctg13297	17
27508	I		A	TCCTACCAGTATACCACACTACCCCTCTAGAGGTCAGATAT		
27508	P	G	A	ATGACGTGGCAGACGGCACCTGCTGAAGAY		
27508	P	A	A	CGCGCCGAGGAGCACCTGCTGAAGAAY		
27508	T	G	A	CTTCTTCTTCAGCAGGTGCCTATCTGACCTCTAGAGGGGTAGTGTGGTATACTGGTAGGAAC		
27508	T	A	A	CTTCTTCTTCAGCAGGTGCTTATCTGACCTCTAGAGGGGTAGTGTGGTATACTGGTAGGAAC		
27508	IS	[GA]		TTCAAACTGAAAGCTTGCGTTCCTACCAGTATACCACACTACCCCTCTAGAGGTCAGATA[GA]GCACCTGCTGAAGAAGAAGCAGCCGATTTCTCCCCCAGATTGCAACCATCTGACTTACTT	ctg15064	7
27516	I		S	GGTGGAGCACCCCGGTCCCGT		
27516	P	C	S	ATGACGTGGCAGACGACAGCGTGGGTGGY		
27516	P	G	S	CGCGCCGAGGCACAGCGTGGGTGY		
27516	T	C	S	TGCTCCACCCACGCTGTCCGGGACCGGGGTGCTCCACCCA		
27516	T	G	S	TGCTCCACCCACGCTGTGCGGGACCGGGGTGCTCCACCCA		
27516	IS	[CG]		GTGCGGGACCTGGGTGCTCCACCCACGCTGTGCGGGACCGGGGTGCTCCACCCACGCTGT[CG]CGGGACCGGGGTGCTCCACCCACGCTGTCCGGAACTGGGGTGCTCCACCCACACTGTCTG	ctg16820	16
27523	I		A	TGTGGCCGAGGGTCAGGCGCA		
27523	P	C	A	ATGACGTGGCAGACCGTCCCTCCTCCTGY		
27523	P	T	A	CGCGCCGAGGTGTCCCTCCTCCTGCY		
27523	T	C	A	AGCAGCAGGAGGAGGGACGGCGCCTGACCCTCGGCCACAGC		
27523	T	T	A	AGCAGCAGGAGGAGGGACAGCGCCTGACCCTCGGCCACAGC		
27523	IS	[CT]		GTCTCATGTGGCCAGAATCGAATTCTAACCTTTCTGGGGCTGTGGCCGAGGGTCAGGCGC[CT]GTCCCTCCTCCTGCTGCTCATGGGTGGAGGCTCCTGGTGCGGCGGGCGAGATGGGGTGGT	ctg13010	2
27534	I		A	CCCGGAGAATGGGCAGACTGGGGA		
27534	P	C	A	ATGACGTGGCAGACCGCGAGACTCCAGGY		
27534	P	T	A	CGCGCCGAGGTGCGAGACTCCAGGY		
27534	T	C	A	AGGACCTGGAGTCTCGCGCCCCAGTCTGCCCATTCTCCGGGCC		
27534	T	T	A	AGGACCTGGAGTCTCGCACCCCAGTCTGCCCATTCTCCGGGCC		
27534	IS	[CT]		TGGCTTCGGCCCCACCCCCACCATGGGTAAACTGAGGCCCGGAGAATGGGCAGACTGGGG[CT]GCGAGACTCCAGGTCCTCCAGGTCCTCCTGCCCCCCGTGCCCTCCTCCCCGCCTGCAGCCC	ctg22fin6	22
27564	I		A	CCGCGCTGAGTGGCTTGAGGACCTT		
27564	P	A	A	CGCGCCGAGGAAGACTCACAGCCTGCY		
27564	P	G	A	ATGACGTGGCAGACGAGACTCACAGCCTGCY		
27564	T	A	A	CGGGGCAGGCTGTGAGTCTTAGGTCCTCAAGCCACTCAGCGCGGCA		
27564	T	G	A	CGGGGCAGGCTGTGAGTCTCAGGTCCTCAAGCCACTCAGCGCGGCA		
27564	IS	[AG]		TAGGCTGGCCCACATCAGAGCCAGGCCCAACCCCTGCCCGCGCTGAGTGGCTTGAGGACCT[AG]AGACTCACAGCCTGCCCCGGGCCTCTGACTGCACAGGTGCCTGGCCCCAGGGCCACATGG	ctg22fin10	22
27575	I		S	CTTGTCTCCTGCTCCAGCCCATAAGCCTT		
27575	P	G	S	CGCGCCGAGGCAGCTCCCCAGGCY		
27575	P	C	S	ATGACGTGGCAGACGAGCTCCCCAGGCY		
27575	T	G	S	TCAAGCCTGGGGAGCTGAGGCTTATGGGCTGGAGCAGGAGACAAGGG		
27575	T	C	S	TCAAGCCTGGGGAGCTCAGGCTTATGGGCTGGAGCAGGAGACAAGGG		
27575	IS	[GC]		GCCAGGTGTGAATAACCATTTGTGTGGGATGGGGGACCTGGCACTCAAGCCTGGGGAGCT[GC]AGGCTTATGGGCTGGAGCAGGAGACAAGGGGGTGCCTGTACTCACACAGCTTTCAGCCTT	ctg15907	6
27582	I		A	AGGGGCTGCTGGCCTTGATGGAACTT		
27582	P	G	A	ATGACGTGGCAGACGTGATTTCTATGAGAAACGAGAY		
27582	P	A	A	CGCGCCGAGGATGATTTCTATGAGAAACGAGAY		
27582	T	G	A	CAGCTCTCGTTTCTCATAGAAATCACAGTTCCATCAAGGCCAGCAGCCCCTTC		
27582	T	A	A	CAGCTCTCGTTTCTCATAGAAATCATAGTTCCATCAAGGCCAGCAGCCCCTTC		
27582	IS	[GA]		GCTGGGGAGTGGTAGGTGATGAGGGTAGTGAAGGAAGGGGCTGCTGGCCTTGATGGAACT[GA]TGATTTCTATGAGAAACGAGAGCTGTGAACAAGGGAGCAGAGGTGAAAAGGACCCCCAGC	ctg13214	2
27609	I		S	TGCATGGTCTATTAATGGAAGGAAAGGCTTGTGATATCTTCTCAGATATCT		
27609	P	T	S	CGCGCCGAGGAGCTGCAGATGCTAACAY		
27609	P	G	S	ATGACGTGGCAGACCGCTGCAGATGCTAACY		
27609	T	T	S	AAAATGTTAGCATCTGCAGCTGATATCTGAGAAGATATCACAAGCCTTTCCTTCCATTAATAGACCATGCAAT		
27609	T	G	S	AAAATGTTAGCATCTGCAGCGGATATCTGAGAAGATATCACAAGCCTTTCCTTCCATTAATAGACCATGCAAT		
27609	IS	[TG]		CCCAGAAAAGCCAGATAATTCAGGGAACAAATTATTTTAGAAAATGTTAGCATCTGCAGC[TG]GATATCTGAGAAGATATCACAAGCCTTTCCTTCCATTAATAGACCATGCAATTCAGAACA	ctg15649	2
27631	I		S	GTCTTGAACAGCAGAGATGAAAGAAATAAAAATGGTCCCA		
27631	P	G	S	ATGACGTGGCAGACCGCTCTCTAGGAACTTACTY		
27631	P	A	S	CGCGCCGAGGTGCTCTCTAGGAACTTACTATY		
27631	T	G	S	ACACATAGTAAGTTCCTAGAGAGCGGGGACCATTTTTATTTCTTTCATCTCTGCTGTTCAAGACCT		
27631	T	A	S	ACACATAGTAAGTTCCTAGAGAGCAGGGACCATTTTTATTTCTTTCATCTCTGCTGTTCAAGACCT		
27631	IS	[GA]		AATAGATTACTGTCTCCAATTGCTTTGTGGATGTAAACACATAGTAAGTTCCTAGAGAGC[GA]GGGACCATTTTTATTTCTTTCATCTCTGCTGTTCAAGACCTTTCTAAAGCTTTTTTGAAA	ctg15649	2
27637	I		S	TGCACCAGCATGAGCATTGCGGGTGA		
27637	P	A	S	CGCGCCGAGGTTCCAGTGCCAGAGGY		
27637	P	G	S	ATGACGTGGCAGACCTCCAGTGCCAGAGGY		
27637	T	A	S	GAATCCTCTGGCACTGGAACACCCGCAATGCTCATGCTGGTGCATG		
27637	T	G	S	GAATCCTCTGGCACTGGAGCACCCGCAATGCTCATGCTGGTGCATG		
27637	IS	[AG]		CCTTACACAGACCTTGAACCCTGGAGCAAATGAAGCGGTTTGGAATCCTCTGGCACTGGA[AG]CACCCGCAATGCTCATGCTGGTGCATGTATTAGTCAGCGTCTGGCTCTTGGCCCGGTTAA	ctg14508	3
27662	I		A	GGCTGCTACACAAATTGTAAATGATAGCATAATTACTCAGGCTCCAAAAAAAATAGA		

FIGURE 129F

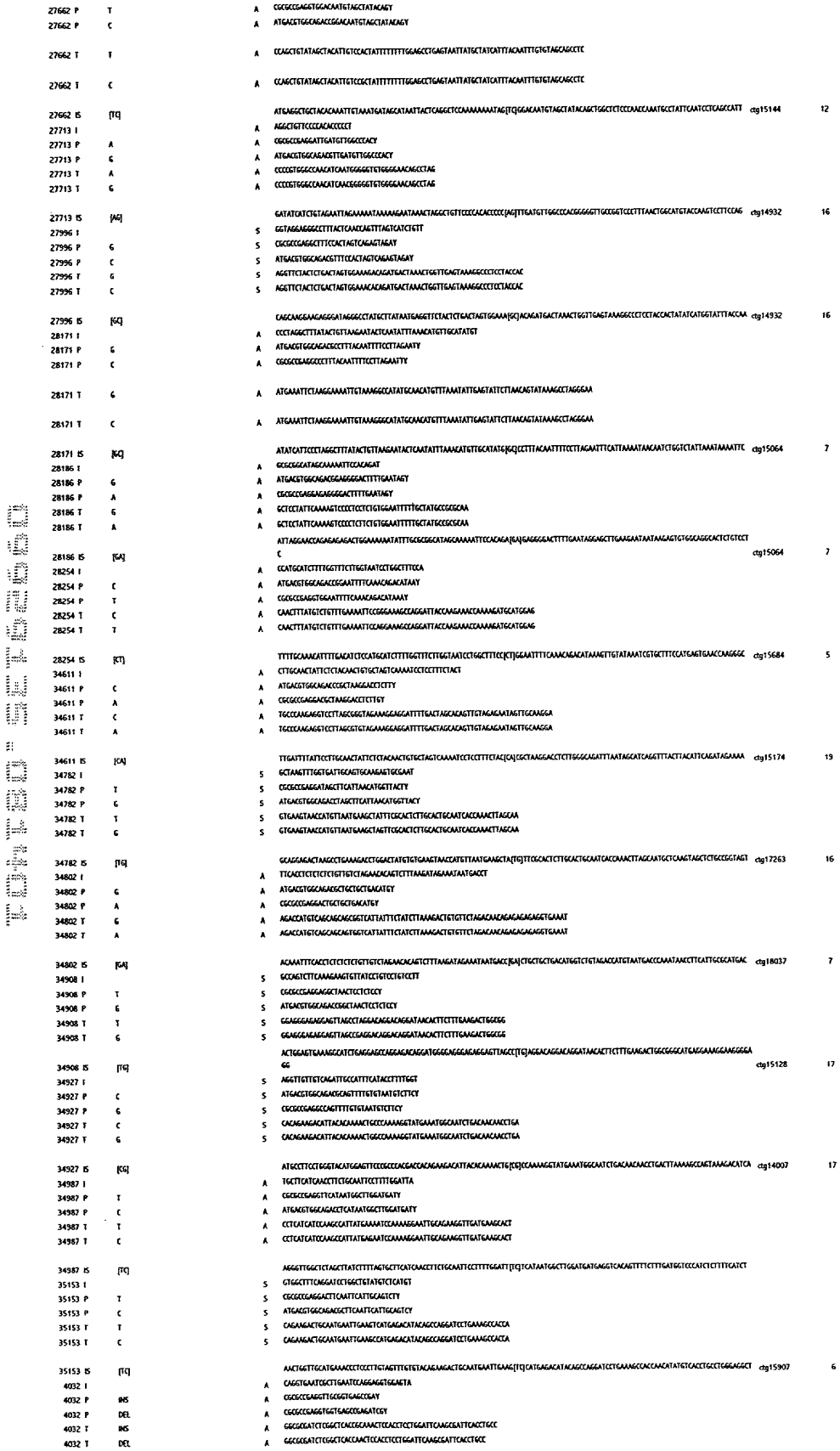
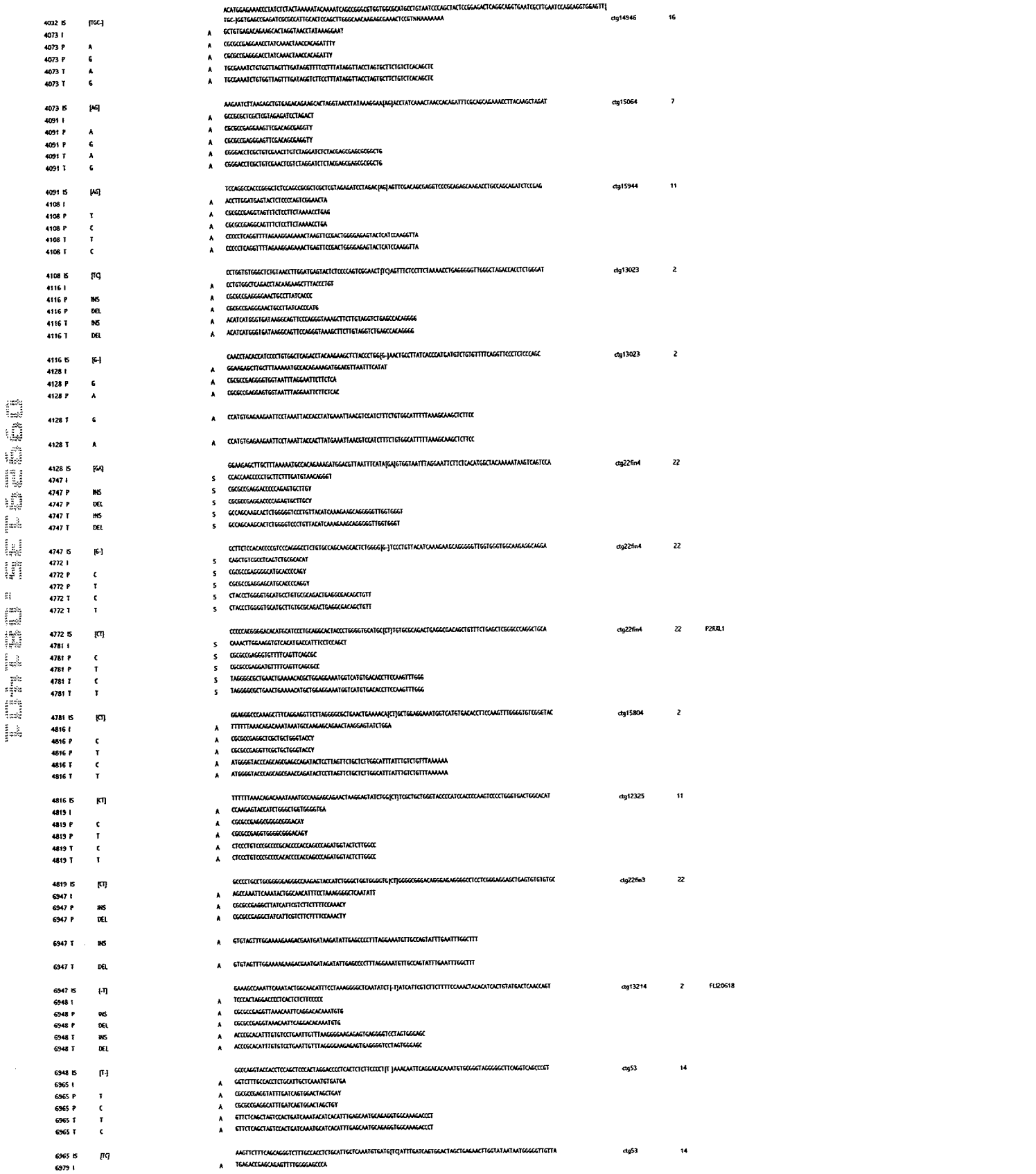
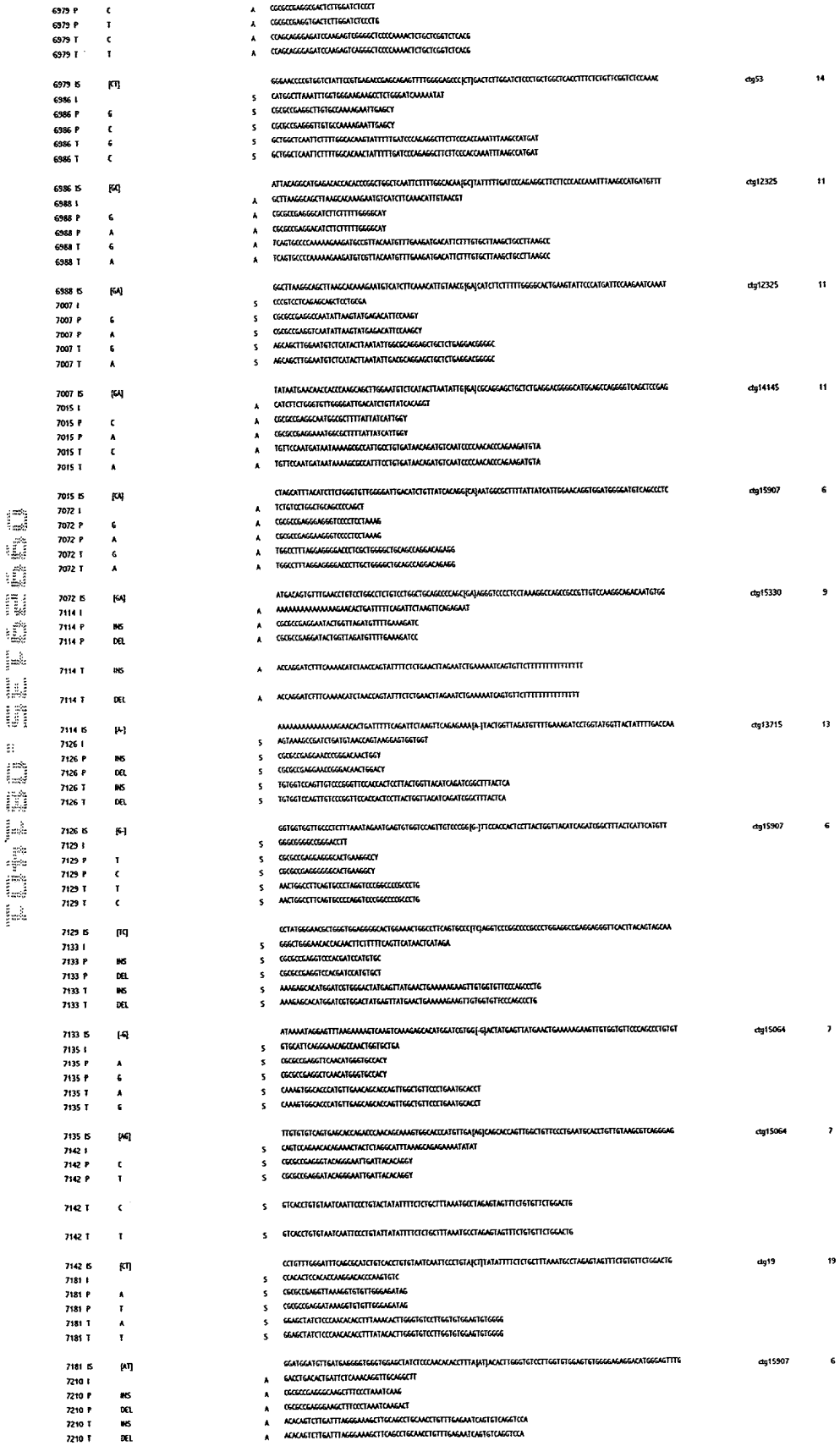

27662 P T A CGCGCCGAGGTGGACAATGTAGCTATACAGY
27662 P C A ATGACGTGGCAGACCGGACAATGTAGCTATACAGY
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27662 T C A CCAGCTGTATAGCTACATTGTCCGCTATTTTTTTTGGAGCCTGAGTAATTATGCTATCATTTACAATTTGTGTAGCAGCCTC
27662 IS [TC] ATGAGGCTGCTACACAAATTGTAAATGATAGCATAATTACTCAGGCTCCAAAAAAAATAG[TC]GGACAATGTAGCTATACAGCTGGCTCTCCCAACCAAATGCCTATTCAATCCTCAGCCATT ctg15144 12
27713 I A AGGCTGTTCCCCACACCCCCT
27713 P A A CGCGCCGAGGATTGATGTTGGCCCACY
27713 P G A ATGACGTGGCAGAGTTGATGTTGGCCCACY
27713 T A A CCCCGTGGGCCAACATCAATGGGGGTGTGGGGAACAGCCTAG
27713 T G A CCCCGTGGCCAACATCAACGGGGGTGTGGGGAACAGCCTAG
27713 IS [AG] GATATCATCTGTAGAATTAGAAAAATAAAAAGAATAAACTAGGCTGTTCCCCACACCCC[AG]TTGATGTTGGCCCACGGGGGTTGCCGGTCCCTTTAACTGGCATGTACCAAGTCCTTCCAG ctg14932 16
27996 I S GGTAGGAGGGCCTTTACTCAACCAGTTTAGTCATCTGTT
27996 P G S CGCGCCGAGGCTTTCCACTAGTCAGAGTAGAY
27996 P C S ATGACGTGGCAGACGTTTCCACTAGTCAGAGTAGAY
27996 T G S AGGTTCTACTCTGACTAGTGGAAAGACAGATGACTAAACTGGTTGAGTAAAGCCCTCCTACCAC
27996 T C S AGGTTCTACTCTGACTAGTGGAAACACAGATGACTAAACTGGTTGAGTAAAGCCCTCCTACCAC
27996 IS [GC] CAGCAGGAAGAGGGATAGGGCCTATGCTTATAATGAGGTTCTACTCTGACTAGTGGAAA[GC]ACAGATGACTAAACTGGTTGAGTAAAGCCCTCCTACCACTATATCATGGTATTTACCAA ctg14932 16
28171 I A CCCTAGGCTTTATACTGTTAAGAATACTCAATATTTAAACATGTTGCATATGT
28171 P G A ATGACGTGGCAGACGCCTTTACAATTTTCCTTAGAATY
28171 P C A CGCGCCGAGGCCCTTTACAATTTTCCTTAGAATTY
28171 T G A ATGAAATTCTAAGGAAAATTGTAAAGGCATATGCAACATGTTTAAATATTGAGTATTCTTAACAGTATAAAGCCTAGGGAA
28171 T C A ATGAAATTCTAAGGAAAATTGTAAAGGGCATATGCAACATGTTTAAATATTGAGTATTCTTAACAGTATAAAGCCTAGGGAA
28171 IS [GC] ATATCATTCCCTAGGCTTTATACTGTTAAGAATACTCAATATTTAAACATGTTGCATATG[GC]CCTTTACAATTTTCCTTAGAATTTCATTAAAATAACAATCTGGTCTATTAAATAAAATTC ctg15064 7
28186 I A GCGCGCGATAGCAAAAATTCCACAGAT
28186 P G A ATGACGTGGCAGACGCGAGGGGACTTTTGAATAGY
28186 P A A CGCGCCGAGGAGAGGGGACTTTTGAATAGY
28186 T G A GCTCCTATTCAAAAGTCCCCTCCTCTGTGGAATTTTTGCTATGCCGCGCAA
28186 T A A GCTCCTATTCAAAAGTCCCCTCTCTGTGGAATTTTTGCTATGCCGCGCAA
28186 IS [GA] ATTAGGAACCAGCAGAGAGAACTGGAAAAAATATTTGCGCGGCATAGCAAAAATTCCACAGA[GA]GAGGGGACTTTTGAATAGGAGCTTGAAGAATAATAAGAGTGTGGCAGGCACTCTGTCCT C ctg15064 7
28254 I A CCATGCATCTTTTGGTTTCTTGGTAATCCTGGCTTTCCA
28254 P C A ATGACGTGGCAGACCGGAATTTTCAAACAGACATAAY
28254 P T A CGCGCCGAGGTGGAATTTTCAAACAGACATAAAY
28254 T C A CAACTTTATGTCTGTTTGAAAATTCCGGGAAAGCCAGGATTACCAAGAAACCAAAAGATGCATGGAG
28254 T T A CAACTTTATGTCTGTTTGAAAATTCCAGGAAAGCCAGGATTACCAAGAAACCAAAAGATGCATGGAG
28254 IS [CT] TTTTGCAAACATTTTGACATCTCCATGCATCTTTTGGTTTCTTGGTAATCCTGGCTTTCC[CT]GGAATTTTCAAACAGACATAAAGTTGTATAAATCGTGCTTTCCATGAGTGAACCAGGGC ctg15684 5
34611 I A CTTGCAACTATTCTCTACAACTGTGCTAGTCAAAATCCTCCTTTCTAC[CA]CGCTAAGGACCTCTTGGGCAGATTTAATAGCATCAGGTTTACTTACATTCAGATAGAAAA ctg15174 19
34611 P C A ATGACGTGGCAGACCGCTAAGGACCTCTTY
34611 P A A CGCGCCGAGGACGCTAAGGACCTCTTGY
34611 T C A TGCCCAAGAGGTCCTTAGCGGGTAGAAAGGAGGATTTTGACTAGCAGAGTTGTAGAGAATAGTTGCAAGGA
34611 T A A TGCCCAAGAGGTCCTTAGCGGTGTAGAAAGGAGGATTTTGACTAGCAGAGTTGTAGAGAATAGTTGCAAGGA
34611 IS [CA] TTGATTTATTCCTTGCAACTATTCTCTACAACTGTGCTAGTCAAAATCCTCCTTTCTAC[CA]CGCTAAGGACCTCTTGGGCAGATTTAATAGCATCAGGTTTACTTACATTCAGATAGAAAA ctg15174 19
34782 I S GCTAAGTTTGGTGATTGCAGTGCAAGAGTGCGAAT
34782 P T S CGCGCCGAGGATAGCTTCATTAACATGGTTACTY
34782 P G S ATGACGTGGCAGACCTAGCTTCATTAACATGGTTACY
34782 T T S GTGAAGTAACCATGTTAATGAAGCTAGTTCGCACTCTTGCACTGCAATCACCAAACTTAGCAA
34782 T G S GTGAAGTAACCATGTTAATGAAGCTAGTTCGCACTCTTGCACTGCAATCACCAAACTTAGCAA
34782 IS [TG] GCAGGAGACTAAGCCTGAAAGACCTGGACTATGTGTGAAGTAACCATGTTAATGAAGCTA[TG]TTCGCACTCTTGCACTGCAATCACCAAACTTAGCAATGCTCAAGTAGCTCTGCCGGTAGT ctg17263 16
34802 I A TTCACCTCTCTCTCTGTTGTCTAGAACACAGTCTTTAAGATAGAAATAATGACC[GA]CTGCTGCTGACATGGTCTGTAGACCATGTAATGACCCAAATAACCTTCATTGCGCATGAC ctg18037 7
34802 P G A ATGACGTGGCAGACGCTGCTGCTGACATGY
34802 P A A CGCGCCGAGGAACTGCTGCTGACATGY
34802 T G A AGACCATGTCAGCAGCAGCGGTCATTATTTCTATCTTAAAGACTGTGTTCTAGACAACAGACAGAGAGAGGTGAAAT
34802 T A A AGACCATGTCAGCAGCAGTGGTCATTATTTCTATCTTAAAGACTGTGTTCTAGACAACAGACAGAGAGGTGAAAT
34802 IS [GA] ACAAATTTCACCTCTCTCTCTGTTGTCTAGAACACAGTCTTTAAGATAGAAATAATGACC[GA]CTGCTGCTGACATGGTCTGTAGACCATGTAATGACCCAAATAACCTTCATTGCGCATGAC ctg18037 7
34908 I S GCCAGTCTTCAAAGAAGTGTTATCCTGTCCTGTCCTT
34908 P T S CGCGCCGAGGAGGCTAACTCCTCTCCY
34908 P G S ATGACGTGGCAGACCGGCTAACTCCTCTCCY
34908 T T S GGAGGGAGAGGAGTTAGCCTAGGACAGGACAGGATAACACTTCTTTGAAGACTGGCGG
34908 T G S GGAGGGAGAGGAGTTAGCCGAGGACAGGACAGGATAACACTTCTTTGAAGACTGGCGG
34908 IS [TG] ACTGGAGTGAAAGGCATCTGAGGAGCTAGGAGACAGGAGATGGGGAGGGAGAGGAGTTAGCC[TG]AGGACAGGACAGGATAACACTTCTTTGAAGACTGGCGGGCATGAGGAAAGGAAGGGGA GG ctg15128 17
34927 I S AGGTTGTTGTCAGATTGCCATTTCATACCTTTGGT
34927 P C S ATGACGTGGCAGACGCAGTTTTGTGTAATGTCTTCY
34927 P G S CGCGCCGAGGCCAGTTTGTGTAATGTCTTCY
34927 T C S CACAGAAGACATTACACAAAACTGCCCAAAAGGTATGAAATGGCAATCTGACAACAACCTGA
34927 T G S CACAGAAGACATTACACAAAACTGGCCAAAAGGTATGAAATGGCAATCTGACAACAACCTGA
34927 IS [CG] ATGCCTTCGTGGGTACATGGAGTTCCGCCCACGACACAGAAGACATTACACAAAACTG[CG]CCAAAAGGTATGAAATGGCAATCTGACAACAACCTGACTTAAAAGCAGTAAACACATCA ctg14007 17
34987 I A TGCTTCATCAACCTTCTGCAATTCCTTTTGGATTA
34987 P T A CGCGCCGAGGTTCATAATGGCTTGGATGATY
34987 P C A ATGACGTGGCAGACCTCATAATGGCTTGGATGATY
34987 T T A CCTCATCATCCAAGCCATTATGAAATCCAAAAGGAATTGCAGAAGGTTGATGAAGCACT
34987 T C A CCTCATCATCCAAGCCATTATGAGAATCCAAAAGGAATTGCAGAAGGTTGATGAAGCACT
34987 IS [TC] AGGGTTGGCTCTAGCTTATCTTTTAGTGCTTCATCAACCTTCTGCAATTCCTTTTGGATT[TC]TCATAATGGCTTGGATGATGAGGTCACAGTTTTCTTTGATGGTCCCATCTCTTTTCATCT
35153 I S GTGGCTTTCAGGATCCTGGCTGTATGTCTCATGT
35153 P T S CGCGCCGAGGACTTCAATTCATTGCAGTCTY
35153 P C S ATGACGTGGCAGACGCTTCAATTCATTGCAGTCY
35153 T T S CAGAAGACTGCAATGAATTGAAGTCATGACACATACAGCCAGGATCCTGAAAGCCACCA
35153 T C S CAGAAGACTGCAATGAATTGAAGCCATGACACATACAGCCAGGATCCTGAAAGCCACCA
35153 IS [TC] AACTGGTTGCATGAAACCCTCCCTTGTAGTTTGTGTACAGAAGACTGCAATGAATTGAAG[TC]CATGAGACATACAGCCAGGATCCTGAAAGCCACCAACATATGTCACCTGCCTGGGAGGCT ctg15907 6
4032 I A CAGGTGAATCGCTTGAATCCAGGAGGTGGAGTA
4032 P INS A CGCGCCGAGGTTGCGGTGAGCCGAT
4032 P DEL A CGCGCCGAGGTGGTGAGCCGAGATCGY
4032 T INS A GGCGCGATCTCGGCTCACCGCAAACTCCACCTCCTGGATTCAAGCGATTCACCTGCC
4032 T DEL A GGCGCGATCTCGGCTCACCAACTCCACCTCCTGGATTCAAGCGATTCACCTGCC

FIGURE 129F



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FIGURE 129F



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FIGURE 129F

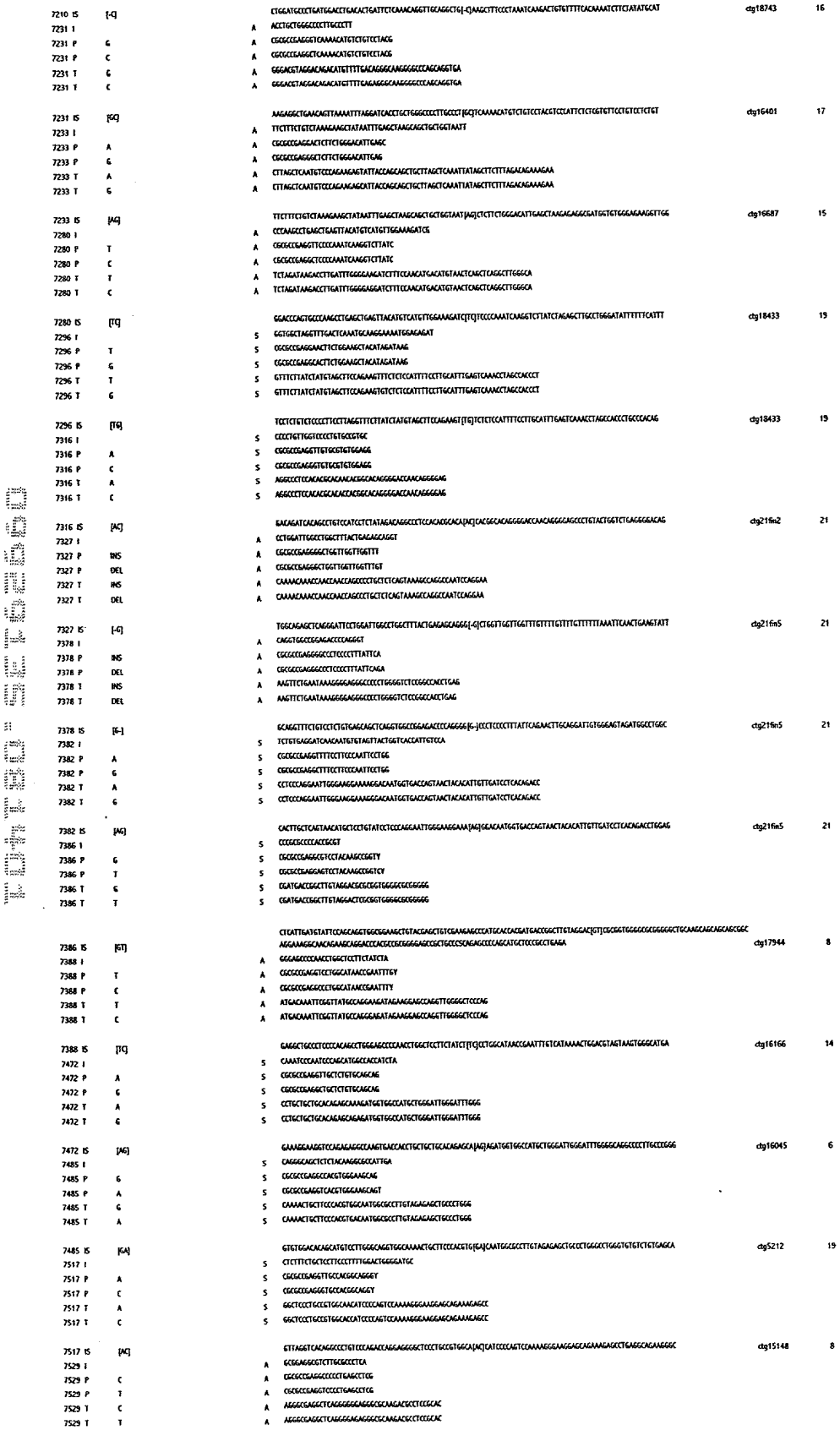
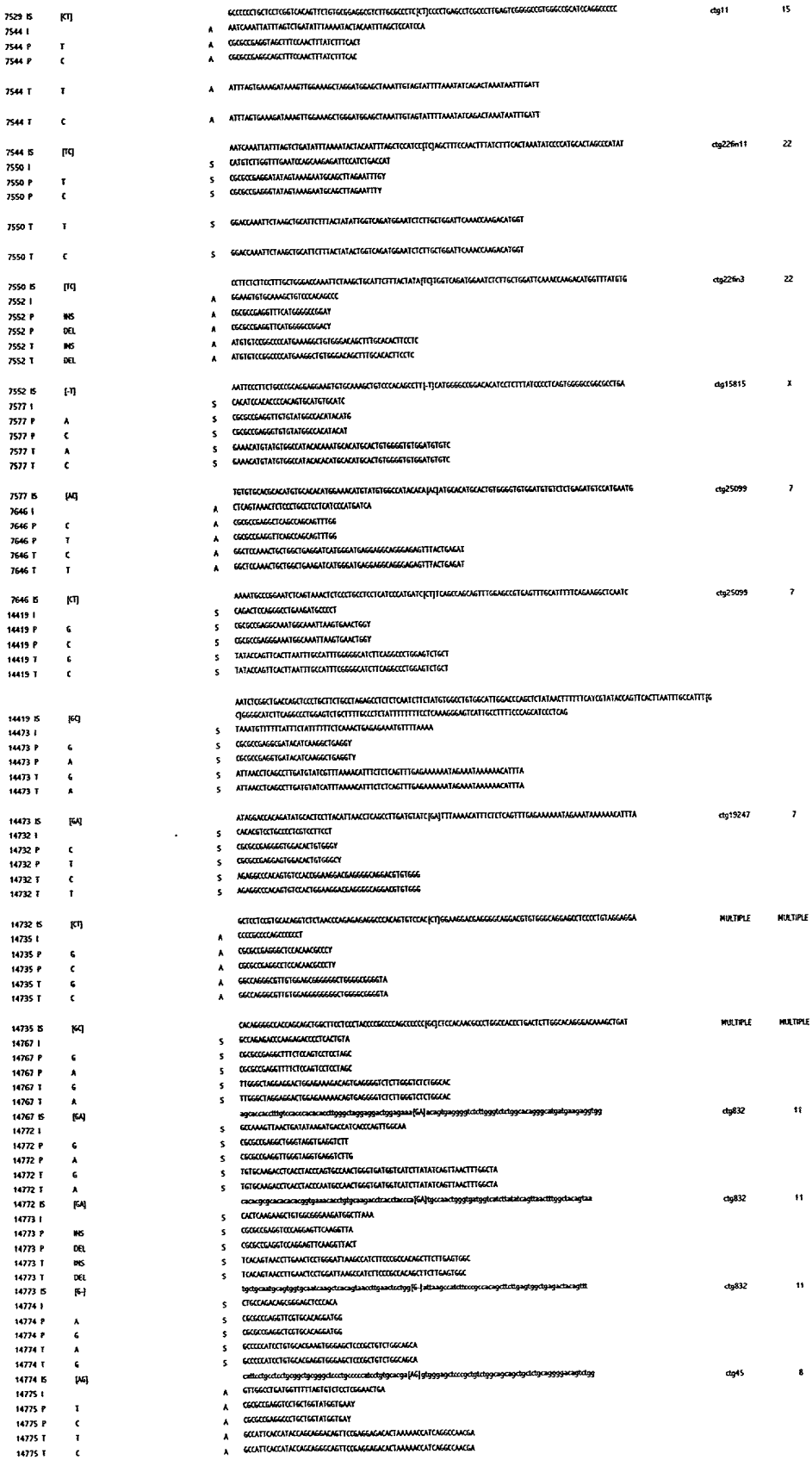


FIGURE 129F



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FIGURE 129F

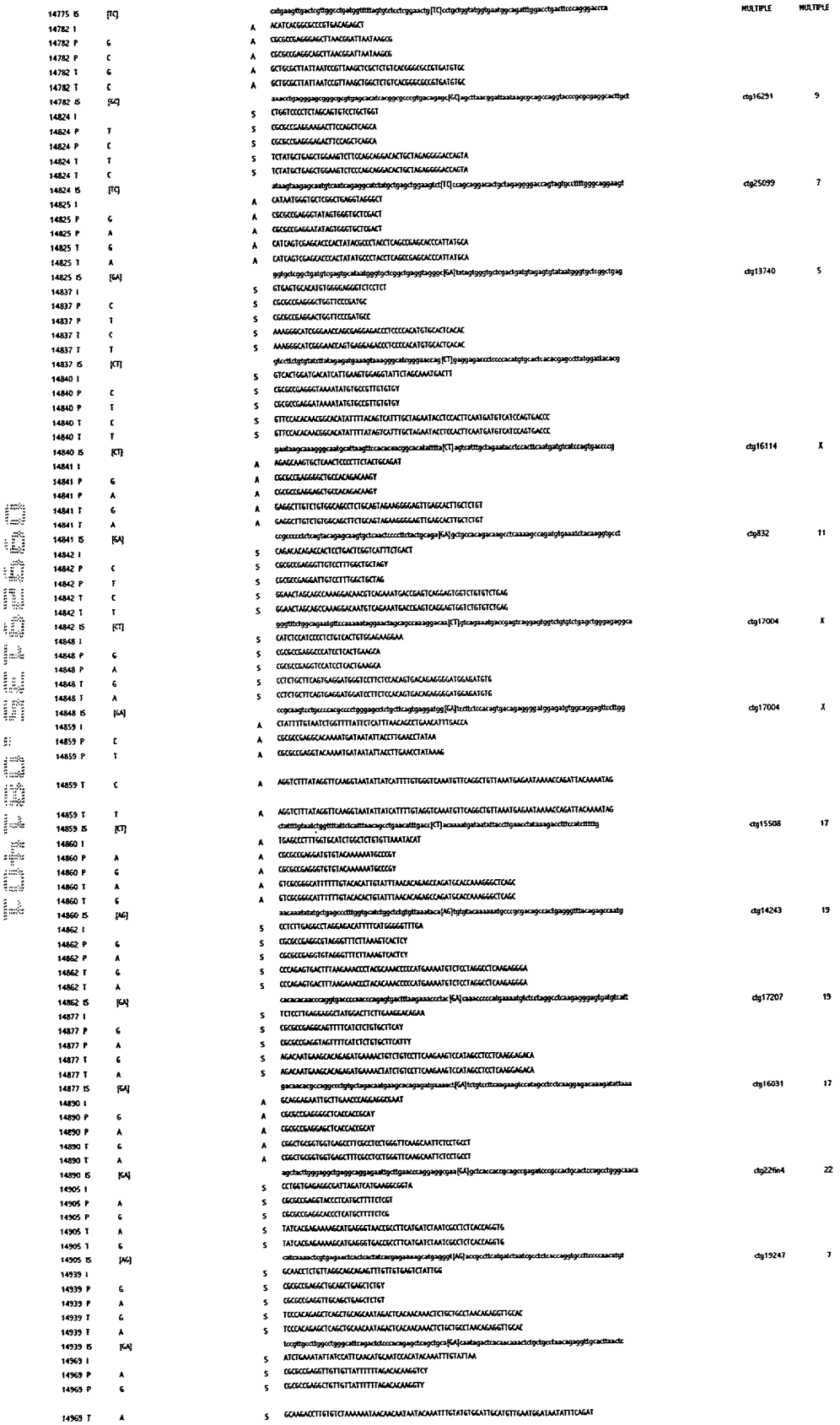


FIGURE 129F

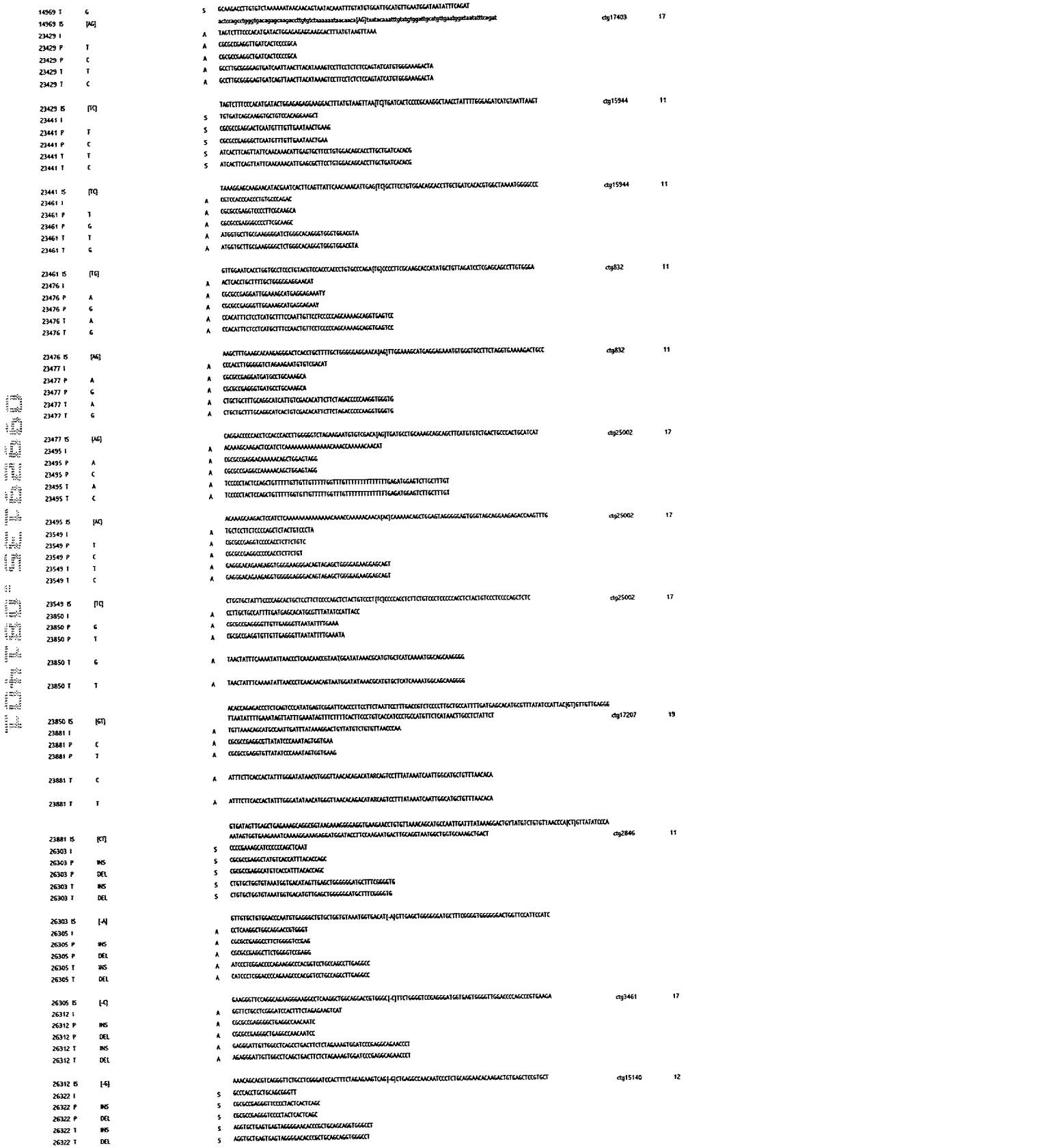


FIGURE 129F

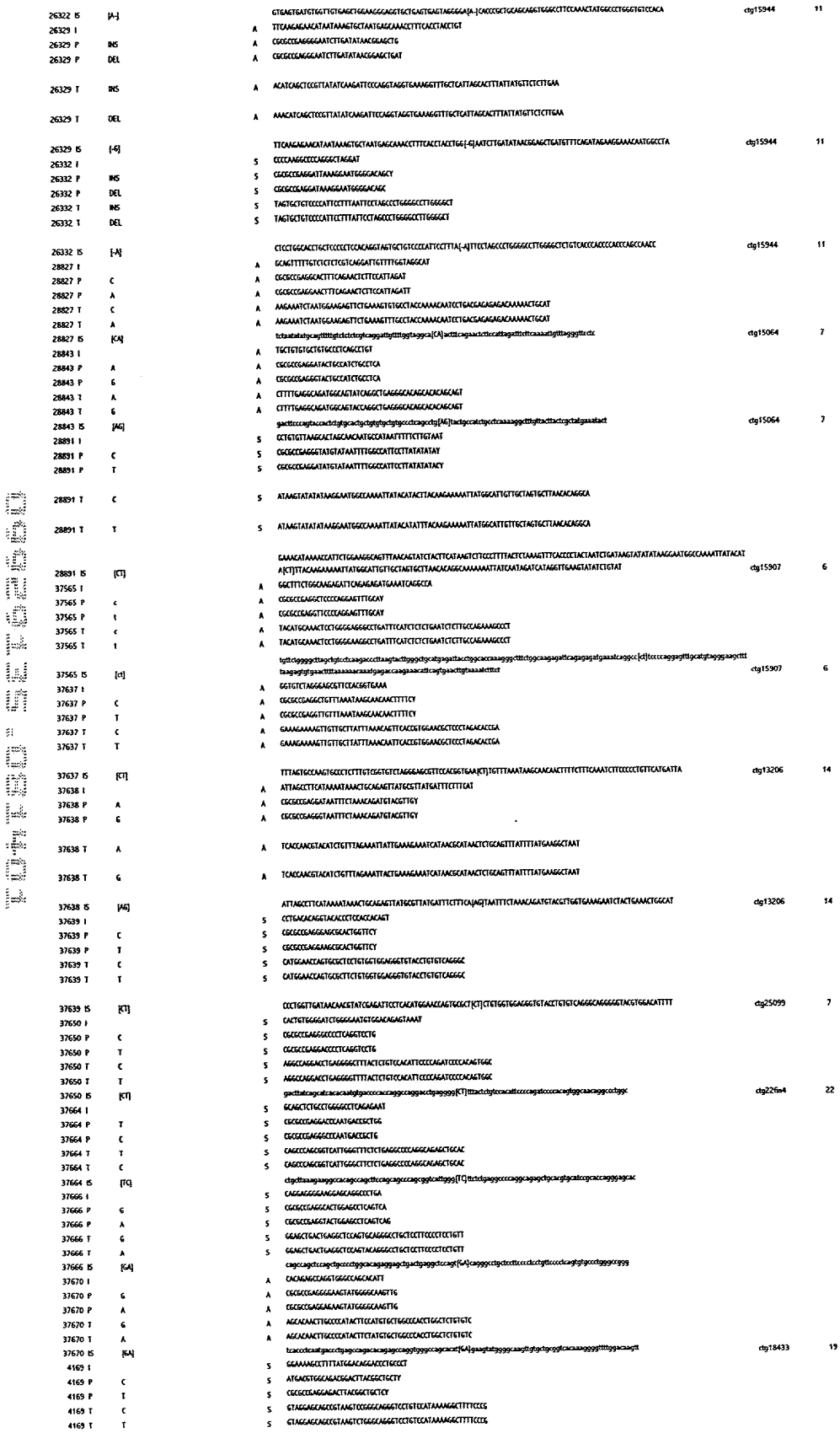

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26329 I A TTCAAGAGAACATAATAAAGTGCTAATGAGCAAACCTTTCACCTACCTGT
26329 P INS A CGCGCCCAAGGGGAATCTTGATATAACGGAGCTG
26329 P DEL A CGCGCCCAAGGGAATCTTGATATAACGGAGCTGAT
26329 T INS A ACATCAGCTCCGTTATATCAAGATTCCCAGGTAGGTGAAAGGTTTGCTCATTAGCACTTTATTATGTTCTCTTGAA
26329 T DEL A AAACATCAGCTCCGTTATATCAAGATTCCAGGTAGGTGAAAGGTTTGCTCATTAGCACTTTATTATGTTCTCTTGAA
26329 IS [-G] TTCAAGAGAACATAATAAAGTGCTAATGAGCAAACCTTTCACCTACCTGG[-G]AATCTTGATATAACGGAGCTGATGTTTCAGATAGAGGAAACAATGGCCTA ctg15944 11
26332 I S CCCCAAGGCCCCAGGGCTAGGAT
26332 P INS S CGCGCCGAAGGATTAAAGGAATGGGGACAGCY
26332 P DEL S CGCGCCGAGGATAAGGAATGGGGACAGC
26332 T INS S TAGTGCTGTCCCCATTCCTTTAATTCCTAGCCCTGGGGCCTTGGGGCT
26332 T DEL S TAGTGCTGTCCCCATTCCTTTATTCCTAGCCCTGGGGCCTTGGGGCT
26332 IS [-A] CTCCTGGCACCTGCTCCCCCTCCACAGGTAGTGCTGTCCCCATTCCTTTA[-A]TTCCTAGCCCTGGGGCCTTGGGGCCTCTGTCACCCACCCCACCCAGCCAACC ctg15944 11
28827 I A GCAGTTTTGTCTCTCTGCTCAGGATTGTTTTGGTAGGCAT
28827 P C A CGCGCCGAGGCACTTTCAGAACTCTTCCATTAGAT
28827 P A A CGCGCCCAGGAACTTTCAGAACTCTTCCATTAGATT
28827 T C A AAGAAATCTAATGGAAGAGTTCTGAAAGTTGTGCCTACCAAAACAATCCTGACGAGAGAGACAAAAACTGCAT
28827 T A A AAGAAATCTAATGGAAGAGTTCTGAAAGTTTGCCTACCAAAACAATCCTGACGAGAGAGACAAAAACTGCAT
28827 IS [CA] tctaatatatgcagttttttgtctctctcgtcaggattgttttggtaggca[CA]acttccagaactcttccattagattttcttcaaaatgtttagggttcctc ctg15064 7
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28843 P A A CGCGCCGAGGATACTGCCATCTGCCTCA
28843 P G A CGCGCCGAGGGTACTGCCATCTGCCTCA
28843 T A A CTTTTGAGGCAGATGGCAGTATCAGGCTGAGGGCACAGCACACAGCAGT
28843 T G A CTTTTGAGGCAGATGGCAGTACCAGGCTGAGGGCACAGCACACAGCAGT
28843 IS [AG] gacttcccagtaccactctgtgcactgctgtgtgctgtgccctcagcctg[AG]tactgccatctgcctcaaaaggcttttgttacttactcgctatgaaatact ctg15064 7
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28891 P C S CGCGCCGAGGGTATGTATAATTTTGGCCATTCCTTATATATAT
28891 P T S CGCGCCCAGGATATGTATAATTTTGGCCATTCCTTATATATACY
28891 T C S ATAAGTATATATAAGGAATGGCCAAAATTATACATACTTACAAGAAAAATTATGGCATTGTTGCTAGTGCTTAACACAGGCA
28891 T T S ATAAGTATATATAAGGAATGGCCAAAATTATACATATTTACAAGAAAAATTATGGCATTGTTGCTAGTGCTTAACACAGGCA
28891 IS [CT] GAAACATAAAACCATTCTGGAAGGCAGTTTAACAGTATCTACTTCATAAGTCTTGCCTTTTACTTCTAAGTTTCACCCCTACTAATCTGATAAGTATATATAAGGAATGGCCAAAATTATACAT A[CT]TTACAAGAAAAAATTATGGCATTGTTGCTAGTGCTTAACACAGGCAAAAAAATTATCAATAGATCATAGGTTGAAGTATATCTGTAT ctg15907 6
37565 I A GGCTTCTGGCAAGAGATTCAGAGAGATGAATCAGGCCA
37565 P c A CGCGCCGAGGCTCCCCAGGAGTTTGCAY
37565 P t A CGCGCCGAGGTTCCCCAGGAGTTTGCAY
37565 T c A TACATGCAAACTCCTGGGGAGGGCCTGATTTCATCTCTCTGAATCTCTTGCCAGAAAGCCCT
37565 T t A TACATGCAAACTCCTGGGGAGGGCCTGATTTCATCTCTCTGAATCTCTTGCCAGAAAGCCCT
37565 IS [ct] tgttcttggggctagctgtcctcaagaccctaagtactgggctgcatgagaatlacctggcaccaaagggcttctggcaagagattcagagagatgaaaatcaggcc[ct]tccccaggagtttgcatgtagggaagcttt taagagtgtgaacttttaaaaaacaaaatgagaccaagaaacattcagtgaacttgtaaaatcttct ctg15907 6
37637 I A GGTGTCTAGGGAGCGTTCCACGGTGAAA
37637 P C A CGCGCCGAGGCTGTTTAAATAAGCAACAACTTTTCY
37637 P T A CGCGCCGAGGTTGTTTAAATAAGCAACAACTTTTCY
37637 T C A GAAAGAAAAGTTGTTGCTATTTAAACAGTTCACCGTGGAACGCTCCCTAGACACCGA
37637 T T A GAAAGAAAAGTTGTTGCTATTTAAACAATTCACCGTGGAACGCTCCCTAGACACCGA
37637 IS [CT] TTTAGTGCCAAGTGCCCTCTTGTCGGTGTCTAGGGAGCGTTCCACGGTGAA[CT]TGTTTAAATAAGCAACAACTTTTCTTTCAAATCTTCCCCCTGTTCATGATTA ctg13206 14
37638 I A ATTAGCCTTCATAAAATAAACTGCAGAGTTATGCGTTATGATTTCTTTCA
37638 P A A CGCGCCGAGGATAATTTCTAAACAGATGTACGTTGY
37638 P G A CGCGCCGAGGGTAATTTCTAAACAGATGTACGTTGY
37638 T A A TCACCAACGTACATCTGTTTAGAAATTATTGAAAGAAATCATAACGCATAACTCTGCAGTTTATTTTATGAAGGCTAAT
37638 T G A TCACCAACGTACATCTGTTTAGAAATTACTGAAAGAAATCATAACGCATAACTCTGCAGTTTATTTTATGAAGGCTAAT
37638 IS [AG] ATTAGCCTTCATAAAATAAACTGCAGAGTTATGCGTTATGATTTCTTTCA[AG]TAATTTCTAAACAGATGTACGTTGGTGAAAGAATCTACTGAAACTGGCAT ctg13206 14
37639 I S CCTGACACAGGTACACCCTCCACACAGT
37639 P C S CGCGCCGAGGGAGCGCACTGGTTCY
37639 P T S CGCGCCGAGGAAGCGCACTGGTTCY
37639 T C S CATGGAACCAGTGCGCTCCTGTGGTGGAGGGTGTACCTGTGTCAGGGC
37639 T T S CATGGAACCAGTGCGCTTCTGTGGTGGAGGGTGTACCTGTGTCAGGGC
37639 IS [CT] CCCTGGTTGATAACAACGTATCGAGATTCCTCACATGGAAACAGTGCGCT[CT]CTGTGGTGGAGGGTGTACCTGTGTCAGGGCAGGGGGTACGTGGACATTTT ctg25099 7
37650 I S CACTGTGGGGATCTGGGGAAATGTGGACAGAGTAAAT
37650 P C S CGCGCCGAGGGCCCCTCAGGTCCTG
37650 P T S CGCGCCGAGGACCCCTCAGGTCCTG
37650 T C S AGGCCAGGAGCTGAGGGGCTTTACTCTGTCCACATTCCCCAGATCCCCACAGTGGC
37650 T T S AGGCCAGGAGCTGAGGGGTTTTACTCTGTCCACATTCCCCAGATCCCCACAGTGGC
37650 IS [CT] gacttatcagcatcacacaaatgtgacccaccaggccaggacctgaggggg[CT]ttactctgtccacattccccagatcccccacagtggccaacaggcctggc ctg226m4 22
37664 I S GCAGCTCTGCCTGGGGCCTCAGAGAAT
37664 P T S CGCGCCCAGGACCCAATGACCGCTGG
37664 P C S CGCGCCGAGGGCCCAATGACCGCTG
37664 T T S CAGCCCAGCGGTCATTGGGTTTCTCTGAGGCCCCAGGCAGAGCTGCAC
37664 T C S CAGCCCAGCGGTCATTGGGCTTCTCTGAGGCCCCAGGCAGAGCTGCAC
37664 IS [TC] ctgctaaagaaggccacagccagcttccagcagcccagcggtcattggg[TC]ttctctgaggccccaggcagagctgccacgtatccgccaccagggagcac
37666 I S CAGGAGGGGAAGGAGCAGGCCCTGA
37666 P G S CGCGCCGAGGCACTGGAGCCTCAGTCA
37666 P A S CGCGCCGAGGTACTGGAGCCTCAGTCAG
37666 T G S GGAGCTGACTGAGGCTCCAGTGCAGGGCCTGCTCCTTCCCCTCCTGTT
37666 T A S GGAGCTGACTGAGGCTCCAGTACAGGGCCTGCTCCTTCCCCTCCTGTT
37666 IS [GA] cagccagctccagctgcccctggcacagaggagcagctgactgaggctccagt[GA]cagggcctgctcctccttccccctcagtgtgccctgggccggg
37670 I A CACAGAGCCAGGTGGGCCAGCACATT
37670 P G A CGCGCCGAGGGGAAGTATGGGGCAAGTTG
37670 P A A CGCGCCGAGGAGAAGTATGGGGCAAGTTG
37670 T G A AGCACAACTTGCCCCATACTTCCATGTGCTGGCCCACCTGGCTCTGTGTC
37670 T A A AGCACAACTTGCCCCATACTTCTATGTGCTGGCCCACCTGGCTCTGTGTC
37670 IS [GA] tcaccctcaatgaccctgagccagcacagagccaggtgggccagcacat[GA]gaagtatgggccaagttgtgctgcggtcacaaagggtttttggacaagtt ctg18433 19
4169 I S GGAAAAGCTTTTATGGACAGGACCCTGCCCT
4169 P C S ATGACGTGGCAGACGGACTTACGGCTGCTY
4169 P T S CGCGCCGAGGAGACTTACGGCTGCTCY
4169 T C S GTAGGAGCAGCCGTAAGTCCGGGCAGGGTCCTGTCCATAAAAGCTTTTCCCG
4169 T T S GTAGGAGCAGCCGTAAGTCTGGGCAGGGTCCTGTCCATAAAAGCTTTTCCCG

FIGURE 129F

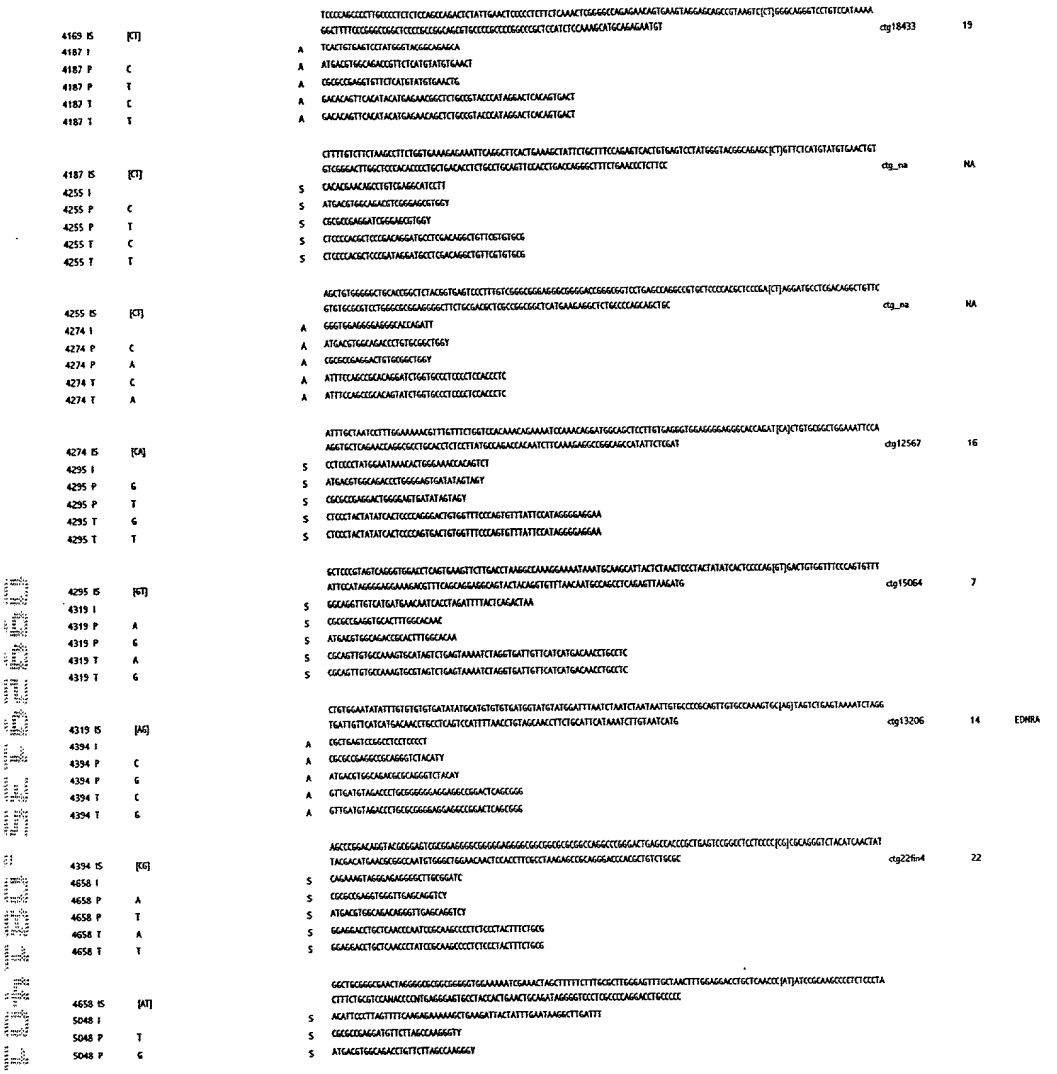


FIGURE 129F

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5360 P    C    S  ATGACGTGGCAGACGGGACTACAAGAGTGTATGY
5360 P    A    S  CGCGCCGAGGTGGACTACAAGAGTGTATGGY
5360 T    C    A  ACCTGCCCTGACAATCAGAGTAGGGACTACAAGAGTGTATGGTGTATGAGGTTCTGAACTCCCAT
5360 T    A    A  ACCTGCCCTGACAATCAGAGTATGGACTACAAGAGTGTATGGTGTATGAGGTTCTGAACTCCCAT

5360 IS   [CA]     GGACTGGCCTCGCTGGTGATGGGAGTTCAGAACCTCATACACCATACACTCTGTAGTCC[CA]TACTCTGATTGTCAGGGCAGGTCTTAGGCATGTGGGTGAAAGAGAAGGTCAAATCAGCCA
5383 I    S  TGGCGACGAGGGCAGAGCACTGAGCC
5383 P    A    S  CGCGCCGAGGTGATGAGGAAGCCCC
5383 P    T    S  ATGACGTGGCAGACAGATGAGGAAGCCCC
5383 T    A    S  GGGCGGGGCTTCCTCATCAGCTCAGTGCTCTCCCCTCCTCGCCAGC
5383 T    T    S  GGGCGGGGCTTCCTCATCTGCTCAGTGCTCTCCCCTCCTCGCCAGC

5383 IS   [AT]     GGCCCACAGAGCATGAGGCCGGGGTCAGGAGCAGGTGCAGGGAGGGGCGGGGCTTCCTCATC[AT]GCTCAGTGCTCTCCCTCCTCGCCAGCACCTCAGCTGTCCCAGGGCTCCTCTTTCTTTAT  ctg15064  7
5389 I    A  GCTTTGGGATCAGGCAGCTGGGTGATTTCTA
5389 P    C    A  ATGACGTGGCAGACCCTGACTCTTTCTCTTCCY
5389 P    T    A  CGCGCCGAGGTCTGACTCTTTCTCTTCCCY
5389 T    C    A  GACGGGGAAGAGAAAGAGTCAGGAGAAATCACCCAGCTGCCTGATCCCAAAGCCC
5389 T    T    A  GACGGGGAAGAGAAAGAGTCAGAAGAAATCACCCAGCTGCCTGATCCCAAAGCCC

5389 IS   [CT]     CAAAACCATGAGGACTGAGGTGGGATGGGGGCTTTGGGATCAGGCAGCTGGGTGATTTCT[CT]CTGACTCTTTCTCTTCCCCGTCCCAGCTGTCCCCTACCACCACCGGTCACAGATGTGAGC  ctg15064  7
5479 I    S  CAGGCCTCTCCCAGCACCCTAGACACA
5479 P    A    S  CGCGCCGAGGTGGGTTTTTCCTCATCCTY
5479 P    G    S  ATGACGTGGCAGACGGGTTTTTCCTCATCCY
5479 T    A    S  GGAGAGGATGAGGAAAAACCCAGTGTCTAGGGTGCTGGGAGAGGCCTGAC
5479 T    G    S  GGAGAGGATGAGGAAAAACCCGGTGTCTAGGGTGCTGGGAGAGGCCTGAC

5479 IS   [AG]     CCGGGCTCGGGAGCAAGGTACACCTGGTTGCCAGAGGGTGGAGAGGATGAGGAAAAACCC[AG]GTGTCTAGGGTGCTGGGAGAGGCCTGACCCAGCACCCCCTCCTTTTAGGGGAGGCAGAGC  ctg14708  2
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5525 P    A    S  CGCGCCGAGGTCTGCATATTTAGCAAATCCTY
5525 P    C    S  ATGACGTGGCAGACGCTGCATATTTAGCAAATCCY

5525 T    A    S  CAAAAGGATTTGCTAAATATGCAGACACAATTTAATTTGCTTTGATTGATCGTGATCATCTCATGTAGTGAACTGTGACT

5525 T    C    S  CAAAAGGATTTGCTAAATATGCAGGCACAATTTAATTTGCTTTGATTGATCGTGATCATCTCATGTAGTGAACTGTGACT

5525 IS   [AC]     GGGAATGGAGAAATTTAAACATATAGTCTTTCTGCACAAAAGGATTTGCTAAATATGCAG[AC]CACAATTTAATTTGCTTTGATTGATCGTGATCATCTCATGTAGTGAACTGTGACTTGGAA  ctg25099  7
5569 I    S  TCCACAGTTGTGTGGGAATACTTGATGAGATTCATGAGGAT
5569 P    G    S  CGCGCCCGAGGCTCCCATTTTTGAACCTCAGY
5569 P    C    S  ATGACGTGGCAGACGTCCCATTTTGAACCTCAY
5569 T    G    S  CCTTCTGAGGTTCAAAATGGGAGTCCTCATGAATCTCATCAAGTATCCCACACAACTGTGGACT
5569 T    C    S  CCTTCTGAGGTTCAAAATGGGACTCCTCATGAATCTCATCAAGTATCCCACACAACTGTGGACT

5569 IS   [GC]     AAAGGTTTCCCACTCTGCAAAGAACGCCAGAGGGCCATCCCTTCTGAGGTTCAAAATGGGA[GC]TCCTCATGAATCTCATCAAGTATCCCACACAACTGTGGACTAGGCTGTAAGTGCACAAAT  ctg17207  19
5715 I    S  AGGCAGGGAACCGAAAGAAACAAGTGACTCGTAAGC
5715 P    T    S  CGCGCCGAGGATGTGATGTGACACAGCY
5715 P    A    S  ATGACGTGGCAGACTTGTGATGTGACACAGCY
5715 T    T    S  CCCTGCTGTGTCACATCACAACTTACGAGTCACTTGTTTCTTTCGGTTCCCTGCCTGG
5715 T    A    S  CCCTGCTGTGTCACATCACAACTTACGAGTCACTTGTTTCTTTCGGTTCCCTGCCTGG

5715 IS   [TA]     ACTTTGTGTCCTGGTCAGGGCTGTGCAATGCCACACTACTCCCTGCTGTGTCACATCACA[TA]CTTACGAGTCACTTGTTTCTTTCGGTTCCCTGCCTGGCTGCTAAAGGTCTTTGAGTTTGT  ctg13206  14
5740 I    A  TGACAAGACTTTCAGTATGTATATGCGTAGAATAAGTTAAGGACTTTA
5740 P    T    A  CGCGCCGAGGTTGATTATATATACAGTACTTCAGATTCY
5740 P    C    A  ATGACGTGGCAGACCTGATTATATATACAGTACTTCAGATTCY

5740 T    T    A  TCTGGAATCTGAAGTACTGTATATATAATCAAAAAGTCCTTAACTTATTCTACGCATATACATACTGAAAGTCTTGTCATA

5740 T    C    A  TCTGGAATCTGAAGTACTGTATATATAATCAGAAAGTCCTTAACTTATTCTACGCATATACATACTGAAAGTCTTGTCATA

5740 IS   [TC]     ATTATTTTCCTTATGACAAGACTTTCAGTATGTATATGCGTAGAATAAGTTAAGGACTTT[TC]TGATTATATATACAGTACTTCAGATTCCAGATTTTTAAAAAATCAATTGATATTTCATTT  ctg15804  2
5743 I    S  AAATACTTGACCATATATCAGATTGAAAGTAAAATAATATCTGAAATTTTCTGTTATTGAT
5743 P    T    S  CGCGCCGAGGACTTTTCACTTTGATTTATAATAGCAY
5743 P    C    S  ATGACGTGGCAGACGCTTTTCACTTTGATTTATAATAGCY

5743 T    T    S  ACCATGCTATTATAAATCAAAGTGAAAAGTTCAATAACAGAAAATTTCAGATATTATTTTACTTTCAATCTGATATATGGTCAAGTATTT

5743 T    C    S  ACCATGCTATTATAAATCAAAGTGAAAAGCTCAATAACAGAAAATTTCAGATATTATTTTACTTTCAATCTGATATATGGTCAAGTATTT

5743 IS   [TC]     CATGTAGATTTAATCTATGGCATAGAATAAAACCATGCTATTATAAATCAAAGTGAAAAG[TC]TCAATAACAGAAAATTTCAGATATTATTTTACTTTCAATCTGATATATGGTCAAGTATTT  ctg15804  2
6019 I    A  GTGGTTGTGAAGTCAAAACACCAGGCACTGCT
6019 P    G    A  ATGACGTGGCAGACGGGGGGCCGACY
6019 P    A    A  CGCGCCGAGGAGGGGGCCGACCY
6019 T    G    A  ACACGGTCGGCCCCCCGCAGTGCCTGGTGTTTTGACTTCACAACCACAG
6019 T    A    A  ACACGGTCGGCCCCCTGCAGTGCCTGGTGTTTTGACTTCACAACCACAG

6019 IS   [GA]     CCAGACGCTATGGGGACATTTAGCCAACTGTGGTTGTGAAGTCAAAACACCAGGCACTGC[GA]GGGGGCCGACCGTGTGGATAAAGATGGAGACAGCCGGGACCCTCCTCGGGCCAGCCTTTC  ctg14708  2
6022 I    S  GGGTCAGGTCAAAGGATGCCAATCCTTCACACT
6022 P    C    S  ATGACGTGGCAGACGTCTCTTCTTCACCTTGTGAG
6022 P    T    S  CGCGCCGAGGATCTTCTTCACCTTGTGAG
6022 T    C    S  GAAACTCACAAGGTGAAGAAGACGTGTGAAGGATTGGCATCCTTTGACCTGACCCCC
6022 T    T    S  GAAACTCACAAGGTGAAGAAGATGTGTGAAGGATTGGCATCCTTTGACCTGACCCCC

6022 IS   [CT]     ACAACATTGACCTTAAGGGCACGGTCGTGATCTTTGATGAAACTCACAAGGTGAAGAAGA[CT]GTGTGAAGGATTGGCATCCTTTGACCTGACCCCCATGACCCGAGTTCGGGACTGGACGT  ctg14708  2
6144 I    S  TGTCCGCTAGAGTCGTCCTGCCCAAGAA
6144 P    G    S  ATGACGTGGCAGACCCAGGGCGGGTTC
6144 P    A    S  CGCGCCGAGGTCAGGCGCGGGTTC
6144 T    G    S  GCGAGAACCCGCCCTGGTCTTGGGCAGGACGACTCTAGCGGACAGG
6144 T    A    S  GCGAGAACCCGCCCTGATCTTGGGCAGGACGACTCTAGCGGACAGG

6144 IS   [GA]     TCTACAGCCACCGTCCCCTCCCTGTGGCCGATTGTGGGATTGCAGGCGAGAACCCGCCCTG[GA]TCTTGGGCAGGACGACTCTAGCGGACAGGAGTTGAGGGGCGGGGCTAGACGGGAGGGAGG  ctg14708  2
6227 I    A  ACTGTGTTCCTCCAAATAAACTTCATTTAGGAAGATGACATTCCTCCAATAC
6227 P    T    A  CGCGCCGAGGTGTGGAAACACAATAATGCY
6227 P    G    A  ATGACGTGGCAGACGGTGGAAAGACAATAAATGCY

6227 T    T    A  AAGTGCATTTATTGTCTTTCCACATATTGGAGGAATGTCATCTTCCTAAATGAAGTTTATTTGGAGGAACACAGTCA

6227 T    G    A  AAGTGCATTTATTGTCTTTCCACCTATTGGAGGAATGTCATCTTCCTAAATGAAGTTTATTTGGAGGAACACAGTCA

6227 IS   [TG]     AAGGAGATGACTGTGTTCCTCCAAATAAACTTCATTTAGGAAGATGACATTCCTCCAATA[TG]GTGGAAAGACAATAAATGCACTTTCTTCTCTCCGCCACTGAGGAAGAAAGTCTCCCTCTT  ctg14708  2  LOC51650
6327 I    S  TGTCCCAAATAAGAAGGCCTGTCGTTTCCTCCAGA
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FIGURE 129F

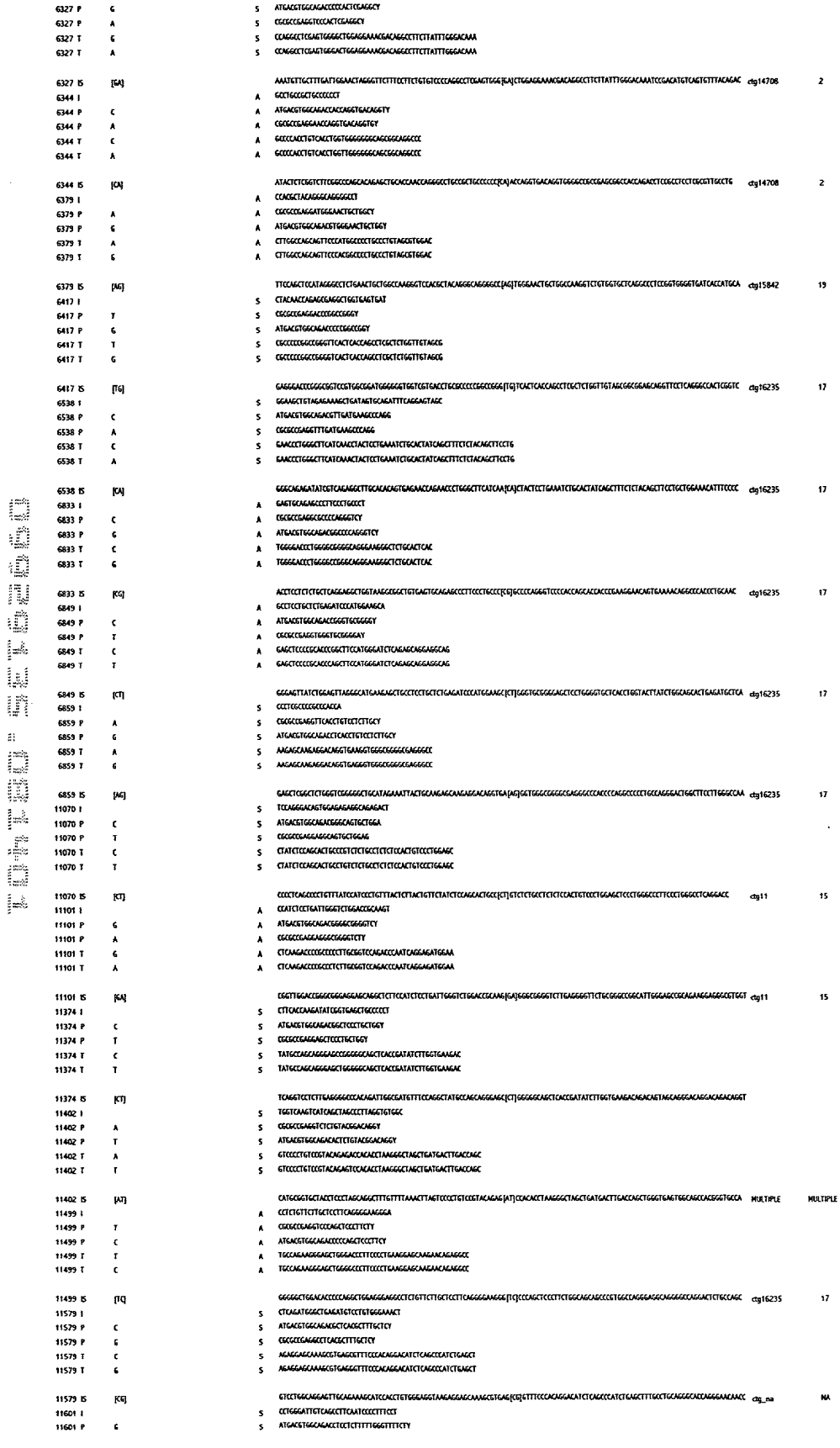
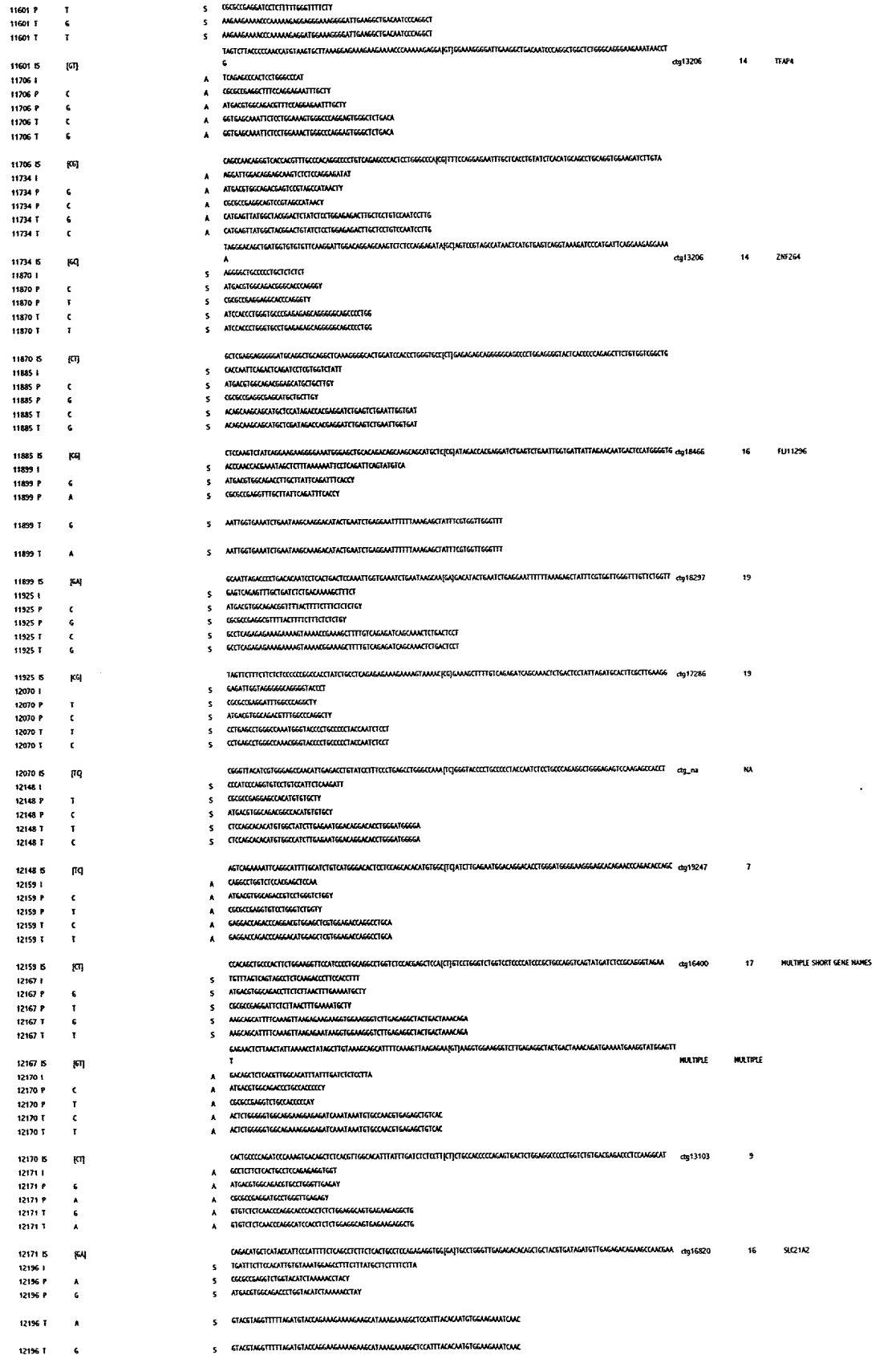

6327 P G S ATGACGTGGCAGACCCCCACTCGAGGCY
6327 P A S CGGCCGAGGTCCCACTCGAGGCY
6327 T G S CCAGGCCTCGAGTGGGGCTGGAGGAAACGACAGGCCTTCTTATTTGGGACAAA
6327 T A S CCAGGCCTCGAGTGGGACTGGAGGAAAGGACAGGCCTTCTTATTTGGGACAAA
6327 IS [GA] AAATCTTGCTTTGATTGGAACTAGGGTTCTTTCCTTCTGTGTCCCCAGGCCTCGAGTGGG[GA]CTGGAGGAAACGACAGGCCTTCTTATTTGGGACAAATCCGACATGTCAGTGTTTACAGAC ctg14708 2
6344 I A GCCTGCCGCTGCCCCCCT
6344 P C A ATGACGTGGCAGACACCAGGTGACAGGTY
6344 P A A CGCGCCGAGGAACCAGGTGACAGGTGY
6344 T C A GCCCCACCTGTCACCTGGTGGGGGGGCAGCGGGCAGGCCC
6344 T A A GCCCCACCTGTCACCTGGTTGGGGGGCAGCGGCAGGCCC
6344 IS [CA] ATACTCTCGGTCTTCGGCCCAGCACAGAGCTGCACCAACCAGGGCCTGCCGCTGCCCCCCC[CA]ACCAGGTGACAGGTGGGGCGCGCGAGCGGCCACCAGAGCTCCGCCTCCTCGCGTTGCCTG ctg14708 2
6379 I A CCAGCTACAGGGCAGGGGCCT
6379 P A A CGCGCCGAGGATGGGAACTGCTGGCY
6379 P G A ATGACGTGGCAGACGTGGGAACTGCTGGY
6379 T A A CTTGGCCAGCAGTTCCCATGGCCCCTGCCCTGTAGCGTGGAC
6379 T G A CTTGGCCAGCAGTTCCCACGCCCCTGCCCTGTAGCGTGGAC
6379 IS [AG] TTCCAGCTCCATAGGGCCTCTGAACTGCTGGCCAAGGGTCCACGCTACAGGGCAGGGGCC[AG]TGGGAACTGCTGGCCAAGGTCTGTGGTGCTCAGCCCCTCCGGTGGGGTGATCACCATGCA ctg15842 19
6417 I S CTACAACCAGAGCGAGGCTGGTGAGTGAT
6417 P T S CGCGCCGAGGACCCGGCCGGGY
6417 P G S ATGACGTGGCAGACCCCCGGCCGGY
6417 T T S CGCCCCCGGCCGGGGTCACTCACCAGCCTCGCTCTGGTTGTAGCG
6417 T G S CGCCCCCGGCCGGGGTCACTCACCAGCCTCGCTCTGGTTGTAGCG
6417 IS [TG] GAGGGACCCCGGGCGGTCCGTGGCGGATGGGGGGTGGTCGTGACCTGCGCCCCGGCCGGG[TG]TCACTCACCAGCCTCGCTCTGGTTGTAGCGGCGGAGCAGGTTCCTCAGGCCCACTCGGTC ctg16235 17
6538 I S GGAAGCTGTAGAGAAAGCTGATAGTGCAGATTTCAGGAGTAGC
6538 P C S ATGACGTGGCAGACGTTGATGAAGCCCAGG
6538 P A S CGCGCCGAGGTTTGATGAAGCCCAGG
6538 T C S GAACCCTGGGCTTCATCAACCTACTCCTGAAATCTGCACTATCAGCTTTCTCTACAGCTTCCTG
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6833 I A GAGTGCAGAGCCCTTCCCTGGCCT
6833 P C A CGCGCCGAGGCGCCCCAGGGTCY
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6833 T C A TGGGGACCCTGGGGCGGGGCAGGGAAGGGCTCTGCACTCAC
6833 T G A TGGGGACCCTGGGGCCGGGCAGGGAAGGGCTCTGCACTCAC
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6849 I A GCCTCCTGCTCTGAGATCCCATGGAAGCA
6849 P C A ATGACGTGGCAGACCGGGTGCGGGGY
6849 P T A CGCGCCGAGGTGGGTGCGGGGAY
6849 T C A GAGCTCCCCGCACCCGGCTTCCATGGGATCTCAGAGCAGGAGGCAG
6849 T T A GAGCTCCCCGCACCCAGCTTCCATGGGATCTCAGAGCAGGAGGCAG
6849 IS [CT] GGGAGTTATCTGGAGTTAGGGCATGAAGAGCTGCCTCCTGCTCTGAGATCCCATGGAAGC[CT]GGGTGCGGGGAGCTCCTGGGGTGCTCACCTGGTACTTATCTGGCAGCACTGAGATGCTCA ctg16235 17
6859 I S CCCTGGCCCCCGCCCACCA
6859 P A S CGGCCCGAGGTTCACCTGTCCTCTTGCY
6859 P G S ATGACGTGGCAGACCTCACCTGTCCTCTTGCY
6859 T A S AAGAGCAAGAGGACAGGTGAAGGTGGGCGGGGCGAGGGCC
6859 T G S AAGAGCAAGAGGACAGGTGAGGGTGGGCGGGGCGAGGGCC
6859 IS [AG] GAGCTCGGCTCTGGGTCGGGGGCTGCATAGAAATTACTGCAAGAGCAAGAGCACAGGTGA[AG]GGTGGGCGGGCCGAGGGCCCACCCCAGGCCCCTGCCAGGGACTGGCTTCCTTGGGCCAA ctg16235 17
11070 I S TCCAGGGACAGTGGAGAGAGGCAGAGACT
11070 P C S ATGACGTGGCAGACGGGCAGTGCTGGA
11070 P T S CGCGCCGAGGAGGCAGTGCTGGAG
11070 T C S CTATCTCCAGCACTGCCCGTCTCTGCCTCTCTCCACTGTCCCTGGAGC
11070 T T S CTATCTCCAGCACTGCCTGTCTCTGCCTCTCTCCACTGTCCCTGGAGC
11070 IS [CT] CCCCTCAGCCCCTGTTTATCCATCCCTGTTTACTCTTACTGTTCTATCTCCAGCACTGCC[CT]GTCTCTGCCTCTCTCCACTGTCCCTGGAGTCCCTGGGCCCTTCCCTGGGCCTCAGGACC ctg11 15
11101 I A CCATCTCCTGATTGGGTCTGGACCGCAAGT
11101 P G A ATGACGTGGCAGACGGGGCGGGGTCY
11101 P A A CGCGCCGAGGAGGGCGGGGTCTY
11101 T G A CTCAAGACCCCGCCCCTTGCGGTCCAGACCCAATCAGGAGATGGAA
11101 T A A CTCAAGACCCCGCCCTCTTGCGGTCCAGACCCAATCAGGAGATGGAA
11101 IS [GA] CGGTTGGACCGGGCGGGAGGAGCAGGCTCTTCCATCTCCTGATTGGGTCTGGACCGCAAG[GA]GGGCGGGGTCTTGAGGGGTTCTGCGCGGCCGGCATTGGGAGCCGCAGAAGGAGGCGTGGT ctg11 15
11374 I S CTTCACCAAGATATCGGTGAGCTGCCCCT
11374 P C S ATGACGTGGCAGACGGCTCCCTGCTGGY
11374 P T S CGCGCCGAGGAGCTCCCTGCTGGY
11374 T C S TATGCCAGCAGGGAGCCCGGGGCAGCTCACCGATATCTTGGTGAAGAC
11374 T T S TATGCCAGCAGGGAGCTGGGGGCAGCTCACCGATATCTTGGTGAAGAC
11374 IS [CT] TCAGGTCCTCTTGAGGGGCCCACAGATTGGCGATGTTTCCAGGCTATGCCAGCAGGGAGC[CT]GGGGGCAGCTCACCGATATCTTGGTGAAGACAGACAGTAGCAGGGACAGGACAGACAGT
11402 I S TGGTCAAGTCATCAGCTAGCCCTTAGGTGTGGC
11402 P A S CGCGCCGAGGTCTCTGTACGGACAGGY
11402 P T S ATGACGTGGCAGACACTCTGTACGGACAGGY
11402 T A S GTCCCCTGTCCGTACAGAGACCACACCTAAGGGCTAGCTGATGACTTGACCAGC
11402 T T S GTCCCCTGTCCGTACAGAGTCCACACCTAAGGGCTAGCTGATGACTTGACCAGC
11402 IS [AT] CATGCGGTGCTACCTCCCTAGCAGGCTTTGTTTAAACTTAGTCCCCTGTCCGTACAGAG[AT]CCACACCTAAGGGCTAGCTGATGACTTGACCAGCTGGGTGAGTGGCAGCCACGGGTGCCA MULTIPLE MULTIPLE
11499 I A CCTCTGTTCTTGCTCCTTCAGGGGAAGGGA
11499 P T A CGCGCCGAGGTCCCAGCTCCCTTCTY
11499 P C A ATGACGTGGCAGACCCCCAGCTCCCTTCY
11499 T T A TGCCAGAAGGGAGCTGGGCCCTTCCCCTGAAGGAGCAAGAACAGAGGCC
11499 T C A TGCCAGAAGGGAGCTGGGCCCTTCCCCTGAAGGAGCAAGAACAGAGGCC
11499 IS [TC] GGGGGCTGGACACCCCCAGGCTGGAAGGGAGGCCTCTGTTCTTGCTCCTTCAGGGGAAGGG[TC]CCCAGCTCCCTTCTGGCAGCAGCCCGTGGCCAGGGAGGCAGGGGCCAGCACTCTGCCAGC ctg16235 17
11579 I S CTCAGATGGGCTGACATGTCCTGTGGGAAACT
11579 P C S ATGACGTGGCAGAGCTCACGCTTTGCTCY
11579 P G S CGCGCCGAGGCCTCACGCTTTGCTCY
11579 T C S AGAGGAGCAAAGCGTGAGGCTTTCCCACAGGACATCTCAGCCCATCTGAGCT
11579 T G S AGAGGAGCAAAGCGTGAGGGTTTCCCACAGGACATCTCAGCCCATCTGAGCT
11579 IS [CG] GTCCTGGCAGGAGTTGCAGAAAGCATCCACCTGTGGGAGGTAAGAGGAGCAAAGCGTGAG[CG]GTTTCCCACAGGACATCTCAGCCCATCTCAGCTTTGCCTGCAGGGCACCAGGGAACAACC ctg_na NA
11601 I S CCTGGGATTGTCAGCCTTCAATCCCCTTCCT
11601 P G S ATGACGTGGCAGACCTCCTCTTTTGGGTTTTCTY

FIGURE 129F



Incyte Confidential/Proprietary

FIGURE 129F

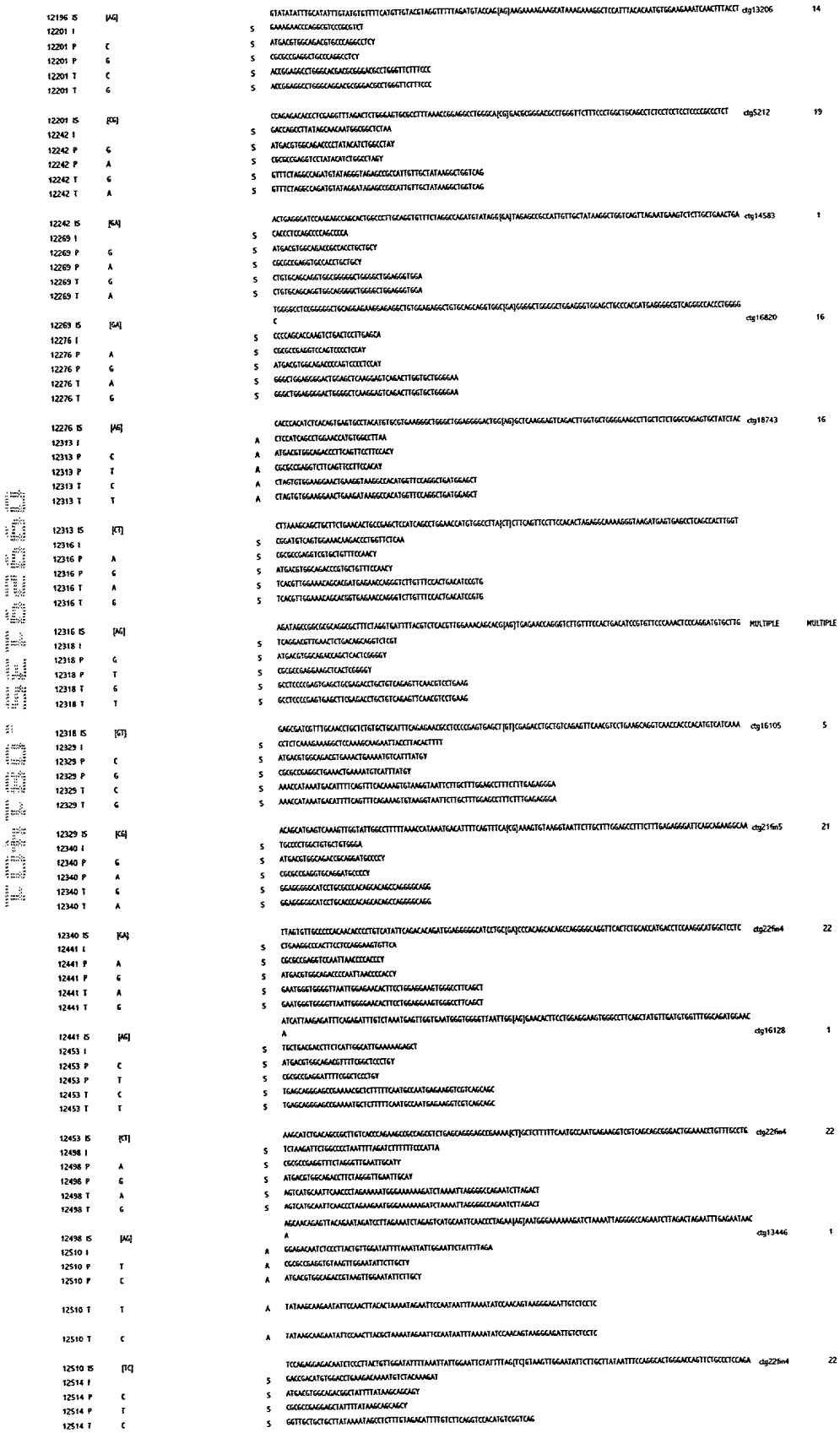


FIGURE 129F

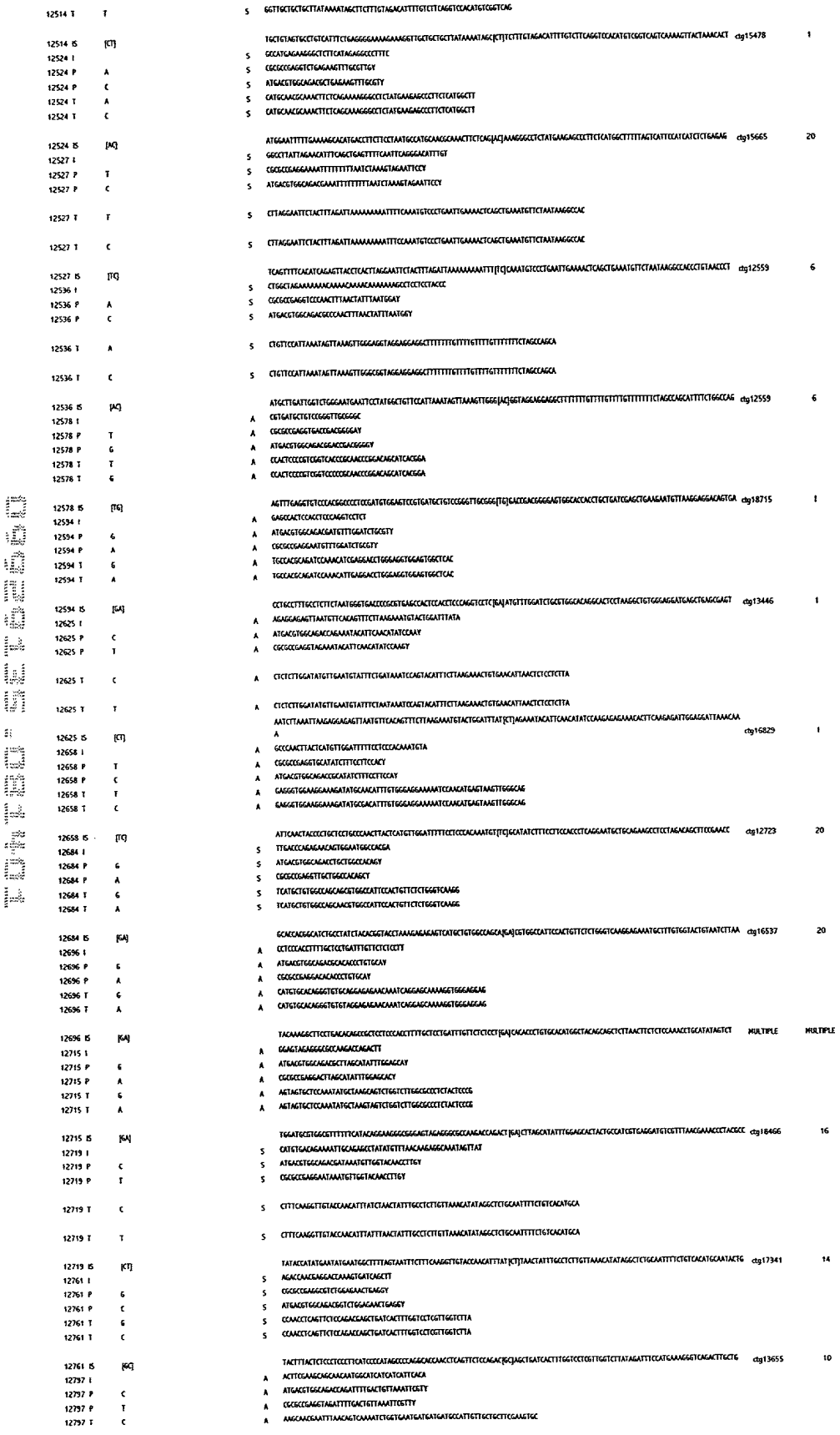

12514 T T S GGTTGCTGCTGCTTATAAAATAGCTTCTTTGTAGACATTTTGTCTTCAGGTCCACATGTCGGTCAG
12514 IS [CT] TGCTGTAGTGCCTGTCATTTCTGAGGGGAAAAGAAAGGTTGCTGCTGCTATAAAATAGC[CT]TCTTTGTAGACATTTTGTCTTCAGGTCCACATGTCGGTCAGTCAAAAGTTACTAAACACT ctg15478 1
12524 I S GCCATGAGAAGGGCTCTTCATAGAGGCCCTTTC
12524 P A S CGCGCCGAGGTCTGAGAAGTTTGCGTTGY
12524 P C S ATGACGTGGCAGACGCTGAGAAGTTTGCGTY
12524 T A S CATGCAACGCAAACTTCTCAGAAAAGGGCCTCTATGAAGAGCCCTTCTCATGGCTT
12524 T C S CATGCAACGCAAACTTCTCAGCAAAGGGCCTCTATGAAGAGCCCTTCTCATGGCTT
12524 IS [AC] ATGGAATTTTTGAAAAGCACATGACCTTCTTCCTAATGCCATGCAAGCAAACTTCTCAG[AC]AAAGGGCCTCTATGAAGAGCCCTTCTCATGGCTTTTTAGTCATTCCATCATCTCTGAGAG ctg15665 20
12527 I S GGCCTTATTAGAACATTTCAGCTGAGTTTTCAATTCAGGGACATTTGT
12527 P T S CGCGCCGAGGAAAATTTTTTTTTTAATCTAAAGTAGAATTCCY
12527 P C S ATGACGTGGCAGACGAAATTTTTTTTTAATCTAAAGTAGAATTCCY
12527 T T S CTTAGGAATTCTACTTTAGATTAAAAAAAAATTTTCAAATGTCCCTGAATTGAAAACTCAGCTGAAATGTTCTAATAAGGCCAC
12527 T C S CTTAGGAATTCTACTTTAGATTAAAAAAAAATTTCCAAATGTCCCTGAATTGAAAACTCAGCTGAAATGTTCTAATAAGGCCAC
12527 IS [TC] TCAGTTTTCACATCAGAGTTACCTCACTTAGGAATTCTACTTTAGATTAAAAAAAAATTTT[TC]CAAATGTCCCTGAATTGAAAACTCAGCTGAAATGTTCTAATAAGGCCACCCTGTAACCCT ctg12559 6
12536 I S CTGGCTAGAAAAAAACAAAACAAAACAAAAAAAGCCTCCTCCTACCC
12536 P A S CGCGCCGAGGTCCCAACTTTAACTATTTAATGGAY
12536 P C S ATGACGTGGCAGACGCCCAACTTTAACTATTTAATGGY
12536 T A S CTGTTCCATTAAATAGTTAAAGTTGGGAGGTAGGAGGAGGCTTTTTTTGTTTTGTTTTGTTTTTTCTAGCCAGCA
12536 T C S CTGTTCCATTAAATAGTTAAAGTTGGGCGGTAGGAGGAGGCTTTTTTTGTTTTGTTTTGTTTTTTCTAGCCAGCA
12536 IS [AC] ATGCTTGATTGGTCTGGGAATGAATTCCTATGGCTGTTCCATTAAATAGTTAAAGTTGGG[AC]GGTAGGAGGAGGCTTTTTTTGTTTTGTTTTGTTTTTTCTAGCCAGCATTTTCTGGCCAG ctg12559 6
12578 I A CGTGATGCTGTCCGGGTTGCGGGC
12578 P T A CGCGCCGAGGTGACCGACGGGGAY
12578 P G A ATGACGTGGCAGACGGACCGACGGGGY
12578 T T A CCACTCCCCGTCGGTCACCCGCAACCCGGACAGCATCACGGA
12578 T G A CCACTCCCCGTCGGTCCCCCGCAACCCGGACAGCATCACGGA
12578 IS [TG] AGTTTGAGGTGTCCCACGGCCCCTCCGATGTGGAGTCCGTGATGCTGTCCGGGTTGCGGG[TG]GACCGACGGGGAGTGGCACCACCTGCTGATCGAGCTGAAGAATGTTAAGGAGGACAGTGA ctg18715 1 CELSR1
12594 I A GAGCCACTCCAGCTCCCAGGTCCTCT
12594 P G A ATGACGTGGCAGACGATGTTTGGATCTGCGTY
12594 P A A CGCGCCGAGGAATGTTTGGATCTGCGTY
12594 T G A TGCCACGCAGATCCAAACATCGAGGAGCTGGGAGGTGGAGTGGCTCAC
12594 T A A TGCCACGCAGATCCAAACATTGAGGAGCCTGGGAGGTGGAGTGGCTCAC
12594 IS [GA] CCTGCCTTTGCCTCTTCTAATGGGTGACCCCGCGTGAGCCACTCCACCTCCCAGGTCCTC[GA]ATGTTTGGATCTGCGTGGCACAGGCACTCCTAAGGCTGTGGGAGGATCAGCTGAGCGAGT ctg13446 1
12625 I A AGAGGAGAGTTAATGTTCAAGTTTCTTAAGAAATGTACTGGATTTATA
12625 P C A ATGACGTGGCAGACCAGAAATACATTCAACATATCCAAY
12625 P T A CGCGCCGAGGTAGAAATACATTCAACATATCCAAGY
12625 T C A CTCTCTTGGATATGTTGAATGTATTTCTGATAAATCCAGTACATTTCTTAAGAAACTGTGAACATTAACTCTCCTCTTA
12625 T T A CTCTCTTGGATATGTTGAATGTATTTCTAATAAATCCAGTACATTTCTTAAGAAACTGTGAACATTAACTCTCCTCTTA
12625 IS [CT] AATCTTAAATTAAGAGGAGAGTTAATGTTCACAGTTTCTTAAGAAATGTACTGGATTTATTCTAGAAATACATTCAACATATCCAAGAGAGAAACACTTCAAGAGATTGGAGGATTAAACAA A ctg16829 1
12658 I A GCCCAACTTACTCATGTTGGATTTTTCCTCCCACAAATGTA
12658 P T A CGCGCCGAGGTGCATATCTTTCCTTCCACY
12658 P C A ATGACGTGGCAGACCGCATATCTTTCCTTCCAY
12658 T T A GAGGGTGGAAGGAAAGATATGCAACATTTGTGGGAGGAAAAATCCAACATGAGTAAGTTGGGCAG
12658 T C A GAGGGTGGAAGGAAAGATATGCAACATTTGTGGGAGGAAAAATCCAACATGAGTAAGTTGGGCAG
12658 IS [TC] ATTCAACTACCCCTGCTCCTGCCCAACTTACTCATGTTGGATTTTTCCTCCCACAAATGT[TC]GCATATCTTTCCTTCCACCCTCAGGAATGCTGCAGAAGCCTCCTAGACAGCTTCCGAACC ctg12723 20
12684 I S TTGACCCAGAGAACAGTGGAATGGCCACGA
12684 P G S ATGACGTGGCAGACCTGCTGGCCACAGY
12684 P A S CGCGCCGAGGTTGCTGGCCACAGCT
12684 T G S TCATGCTGTGGCCAGCAGCGTGGCCATTCCACTGTTCTCTGGGTCAAGG
12684 T A S TCATGCTGTGGCCAGCAACGTGGCCATTCCACTGTTCTCTGGGTCAAGG
12684 IS [GA] GCACCAGAGGCATCTGCCTATCTACACGGTACCTAAAGAGAGAGTCATGCTGTGGCCAGCA[GA]CGTGGCCATTCCACTGTTCTCTGGGTCAAGGAGAAATGCTTTGTGGTACTGTAATCTTAA ctg16537 20
12696 I A CCTCCCACCTTTTGCTCCTGATTTGTTCTCTCCTT
12696 P G A ATGACGTGGCAGACGCACACCCTGTGCAY
12696 P A A CGCGCCGAGGACACACCCTGTGCAY
12696 T G A CATGTGCACAGGGTGTGCAGGAGAGAACAAATCAGGAGCAAAAGGTGGGAGGAG
12696 T A A CATGTGCACAGGGTGTGTAGGAGAGAACAAATCAGGAGCAAAAGGTGGGAGGAG
12696 IS [GA] TACAAAGCCTCCTGACACAGCGCTCCTCCCACCTTTGCTCCTGATTTGTTCTCTCCTT[GA]CACACCCTGTGCACATGGCTACAGCAGCTCTTAACTTCTCTCCAAACCTGCATATAGTCT MULTIPLE MULTIPLE
12715 I A GGAGTACAGGGGCCAAGACAGACTT
12715 P G A ATGACGTGGCAGACGCTTAGCATATTTGGAGCAY
12715 P A A CGCGCCGAGGACTTAGCATATTTGGAGCACY
12715 T G A AGTAGTGCTCCAAATATGCTAAGCAGTCTGGTCTTGGCGCCCTCTACTCCCG
12715 T A A AGTAGTGCTCCAAATATGCTAAGTAGTCTGGTCTTGGCGCCCTCTACTCCCG
12715 IS [GA] TGGATGCGTGGCGTTTTTTCATACAGGAAGGCCGGAGTAGAGGGCGCAAGACCAGACT[GA]CTTAGCATATTTGGAGCACTACTGCCATCGTCAGGATGTCGTTTAACGAAACCCTACGCC ctg18466 16
12719 I S CATGTGACAGAAAATTGCAGAGCTATATGTTTAACAAGAGGCAAATAGTTAT
12719 P C S ATGACGTGGCAGACGATAAATGTTGGTACAACCTTGY
12719 P T S CGCGCCGAGGAATAAATGTTGGTACAACCTTGY
12719 T C S CTTTCAAGGTTGTACCAACATTTATCTAACTATTTGCCTCTTGTTAAACATATAGGCTCTGCAATTTTCTGTCACATGCA
12719 T T S CTTTCAAGGTTGTACCAACATTTATTTAACTATTTGCCTCTTGTTAAACATATAGGCTCTGCAATTTTCTGTCACATGCA
12719 IS [CT] TATACCATATGAATATGAATGGCTTTTAGTAATTTCTTTCAAGGTTGTACCAACATTTAT[CT]TAACTATTTGCCTCTTGTTAAACATATAGGCTCTGCAATTTTCTGTCACATGCAATACTG ctg17341 14
12761 I S AGACCAACGAGGACACAAAGTGATCAGCTT
12761 P G S CGCGCCGAGGCGTCTGAGAACTGAGGY
12761 P C S ATGACGTGGCAGACGGTCTGGAGAACTGAGGY
12761 T G S CCAACCTCAGTTCTCCAGACACAGCTGATCACTTTGGTCCTCGTTGGTCTTA
12761 T C S CCAACCTCAGTTCTCCAGACACAGCTGATCACTTTGGTCCTCGTTGGTCTTA
12761 IS [GC] TACTTTACTCTCCCTCCCTTCATCCCCATAGCCCCAGGCACCAACCTCAGTTCTCCAGAC[GC]AGCTGATCACTTTGGTCCTCGTTGGTCTTATAGATTTCCATCAAAGGGTCAGACTTGCTG ctg13655 10
12797 I A ACTTCCAAGCAGCAACAATGGCATCATCATCATTCACA
12797 P C A ATGACGTGGCAGACCAGATTTTGACTGTTAAATTCGTY
12797 P T A CGCGCCGAGGTAGATTTTGACTGTTAAATTCGTTY
12797 T C A AAGCAACGAATTTAACAGTCAAAATCTGGTGAATGATGATGATGCCATTGTTGCTGCTTCGAAGTGC

FIGURE 129F

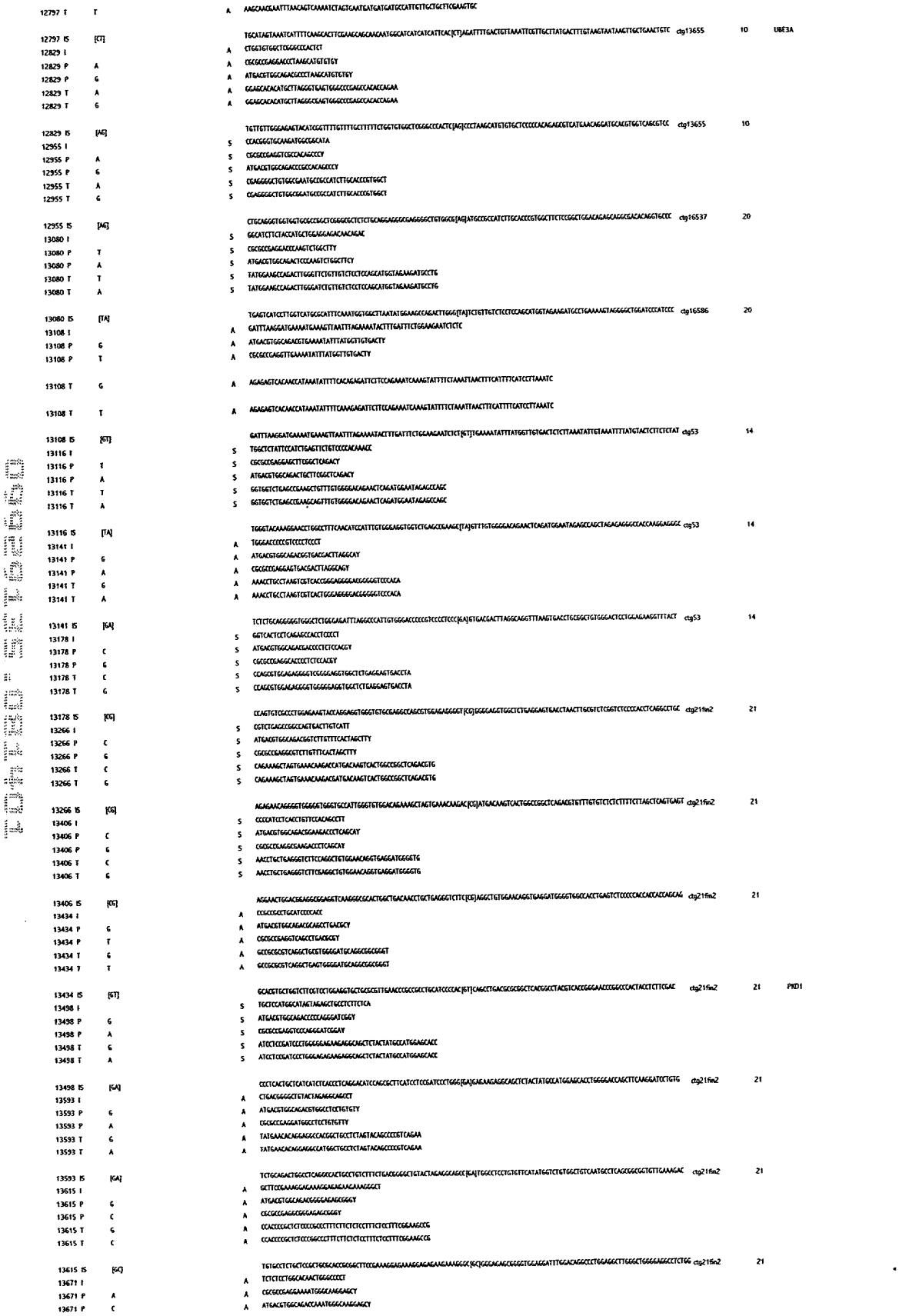

12797 T T A AAGCAACGAATTTAACAGTCAAAATCTAGTCAATGATGATGATGCCATTGTTGCTGCTTCGAACTGC
12797 IS [CT] TGCATAGTAAATCATTTTCAAGCACTTCGAAGCAGCAACAATGGCATCATCATCATTCAC[CT]AGATTTTGACTGTTAAATTCGTTGCTTATGACTTTGTAAGTAATAAGTTGCTGAACTGTC ctg13655 10 UBE3A
12829 I A CTGGTGTGGCTCGGGCCCACTCT
12829 P A A CGCGCCGAGGACCCTAAGCATGTGTGY
12829 P G A ATGACGTGGCAGACGCCCTAAGCATGTGTGY
12829 T A A GCAGCACACATGCTTAGGGTGAGTGGGCCCGAGCCACACCAGAA
12829 T G A GCAGCACACATGCTTAGGGCCAGTGGGCCCGAGCCACACCAGAA
12829 IS [AG] TGTTGTTGGGCAGAGTACATCGGTTTTGTTTTGCTTTTCTGGTGTGGCTCGGGCCCACTC[AG]CCCTAAGCATGTGTGCTCCCCCCACAGAGCGTCATGAACAGGATGCACGTGGTCAGCGTCC ctg13655 10
12955 I S CCACGGGTGCAAGATGGCGGCATA
12955 P A S CGCGCCGAGGTCGCCACAGCCCY
12955 P G S ATGACGTGGCAGACCCGCCACAGCCCY
12955 T A S CGAGGGGCTGTGGCGAATGCCGCCATCTTGCACCCCGTGGCT
12955 T G S CGAGGGGCTGTGGCGGATGCCGCCATCTTGCACCCGTGGCT
12955 IS [AG] CTGCAGGGTGGGTGGTGCGCCGCGCTCGGGGGCTCTCTGCAGGAGGGCGAGGGGCTGTGGCG[AG]ATGCCGCCATCTTGCACCCGTGGCTTCTCCGGCTGGACAGAGCAGCCGACACAGGTGCCC ctg16537 20
13080 I S GGCATCTTCTACCATGCTGGAGGAGACAACAGAC
13080 P T S CGCGCCGAGGAGCCAAGTCTGGCTTY
13080 P A S ATGACGTGGCAGACTCCCAAGTCTGGCTTCY
13080 T T S TATGGAAGCCAGACTTGGGTTCTGTTGTCTCCTCCAGCATGGTAGAAGATGCCTG
13080 T A S TATGGAAGCCAGACTTGGGATCTGTTGTCTCCTCCAGCATGGTAGAAGATGCCTG
13080 IS [TA] TGAGTCATCCTTGGTCATGCGCATTTCAAATGGTGGCTTAATATGGAAGCCAGACTTGGG[TA]TCTGTTGTCTCCTCCAGCATGGTAGAAGATGCCTGAAAAGTAGGGGCTGGATCCCATCCC ctg16586 20
13108 I A GATTTAAGGATGAAAATGAAAGTTAATTTAGAAAATACTTTGATTTCTGGAAGAATCTCT
13108 P G A ATGACGTGGCAGACGTGAAAATATTTATGGTTGTGACTY
13108 P T A CGCGCCGAGGTTGAAAATATTTATGGTTGTGACTY
13108 T G A AGAGAGTCACAACCATAAATATTTTCACAGAGATTCTTCCAGAAATCAAAGTATTTTCTAAATTAACTTTCATTTTCATCCTTAAATC
13108 T T A AGAGAGTCACAACCATAAATATTTTCAAAGAGATTCTTCCAGAAATCAAAGTATTTTCTAAATTAACTTTCATTTTCATCCTTAAATC
13108 IS [GT] GATTTAAGGATGAAAATGAAAGTTAATTTAGAAAATACTTTGATTTCTGGAAGAATCTCT[GT]TGAAAATATTTATGGTTGTGACTCTCTTAAATATTGTAAATTTTATGTACTCTTCTCTAT ctg53 14
13116 I S TGGCTCTATTCCATCTGAGTTCTGTCCCCACAAACC
13116 P T S CGCGCCGAGGAGCTTCGGCTCAGACY
13116 P A S ATGACGTGGCAGACTGCTTCGGCTCAGACY
13116 T T S GGTGGTCTGAGCCGAAGCTGTTTGTGGGGACAGAACTCAGATGGAATAGAGCCAGC
13116 T A S GGTGGTCTGAGCCGAAGCAGTTTGTGGGGACAGAACTCAGATGGAATAGAGCCAGC
13116 IS [TA] TGGGTACAAAGGAACCTGGCTTTCAACATCCATTTGTGGGAGGTGGTCTGAGCCGAAGC[TA]GTTTGTGGGGACAGAACTCAGATGGAATAGAGCCAGCTAGAGAGGGCCACCAAGGAGGGC ctg53 14
13141 I A TGGGACCCCCGTCCCCTCCCT
13141 P G A ATGACGTGGCAGACGGTGACCACTTAGGCAY
13141 P A A CGCGCCGAGGAGTGACGACTTAGGCAGY
13141 T G A AAACCTGCCTAAGTCGTCACCGGCAGGGGCAGGGGGGTCCCACA
13141 T A A AAACCTGCCTAAGTCGTCACTGCGAGGGGCACGGGGGTCCCACA
13141 IS [GA] TCTCTGCAGGGGGTGGGCTCTGGGAGATTTAGGCCCATTGTGGGACCCCCGTCCCCTCCC[GA]GTGACGACTTAGGCAGGTTTAAGTGACCTGCGGCTGTGGGACTCCTGGAGAAGGTTTACT ctg53 14
13178 I S GGTCACTCCTCAGAGCCACCTCCCCT
13178 P C S ATGACGTGGCAGACGACCCCTCTCCAGGY
13178 P G S CGCGCCGAGGCACCCCTCTCCACGY
13178 T C S CCAGCGTGCAGAGGGGTCGGGGAGGTGGCTCTGAGGAGTGACCTA
13178 T G S CCAGCGTGGAGAGGGGTGGGGGAGGTGGCTCTGAGGAGTGACCTA
13178 IS [CG] CCAGTGTCGCCCTGGAGAAGTACCAGGAGGTGGGTGTGCGAGGCCAGCGTGGAGAGGGGT[CG]GGGCAGGTGGCTCTGAGGAGTGACCTAACTTGCGTCTCGGTCTCCCCACCTCAGGCCTGC ctg21fin2 21
13266 I S CGTCTGAGCCGGCCAGTGACTTGTCATT
13266 P C S ATGACGTGGCAGACGGTCTTGTTTCACTAGCTTY
13266 P G S CGCGCCGAGGGTCTTGTTTCACTAGCTTY
13266 T C S CAGAAAGCTAGTGAAACAAGACCATGACAAGTCACTGGCCGGCTCAGACGTG
13266 T G S CAGAAAGCTAGTGAAACAAGACGATGACAAGTCACTGGCCGGCTCAGACGTG
13266 IS [CG] AGAGAACAGGGGTGGGGGTGGGTGCCATTGGGTGTGGACAGAAAGCTAGTGAAACAAGAC[CG]ATGACAAGTCACTGGCCGGCTCAGACGTGTTTGTGTCTCTCTTTCTTAGCTCAGTGAGT ctg21fin2 21
13406 I S CCCCATCCTCACCTGTTCCACAGCCTT
13406 P C S ATGACGTGGCAGACGAAAGACCTCAGCAY
13406 P G S CGCGCCGAGGCAAGACCTCAGCAY
13406 T C S AACCTGCTGAGGGTCTTCAGGCTGTGGAACAGGTGAGGATGGGGTG
13406 T G S AACCTGCTGAGGGTCTTCAGGCTGTGGAACAGGTGAGGATGGGGTG
13406 IS [CG] AGGAACTGGACGGAGGGCGAGGTCAAGGGCGCACTGGCTGACAACCTGCTGAGGGTCTTC[CG]AGGCTGTGGAACAGGTGAGGATGGGGTGGCCACCTGAGTCTCCCCCACCACCACCAGCAG ctg21fin2 21
13434 I A CCGCCGCCTGCATCCCCACC
13434 P G A ATGACGTGGCAGACGCAGCCTGACGCY
13434 P T A CGCGCCGAGGTCAGCCTGACGCGY
13434 T G A GCCGCGCGTCAGGCTGCGTGGGGATGCAGGCGGCGGGT
13434 T T A GCCGCGCGTCAGGCTGAGTGGGGATGCAGGCGGCGGGT
13434 IS [GT] GCACGTGCTGGTCTTCGTCCTGGAGGTGCTGCGCGTTGAACCCGCCGCCTGCATCCCCAC[GT]CAGCCTGACGCGCGGCTCACGGCCTACGTCACCGGGAACCCGGCCCACTACCTCTTCGAC ctg21fin2 21 PKD1
13498 I S TGCTCCATGGCATAGTAGAGCTGCCTCTTCTCA
13498 P G S ATGACGTGGCAGACCCCCAGGGATCGGY
13498 P A S CGCGCCGAGGTCCCAGGGATCGGAY
13498 T G S ATCCTCCGATCCCTGGGAGAGAAGAGGCAGCTCTACTATGCCATGGAGCACC
13498 T A S ATCCTCCGATCCCTGGGAGAGAAGAGGCAGCTCTACTATGCCATGGAGCACC
13498 IS [GA] CCCTCACTGCTCATCATCTCACCCTCAGGACATCCAGCGCTTCATCCTCCGATCCCTGGG[GA]GAGAAGAGGCAGCTCTACTATGCCATGGAGCACCTGGGGACCAGCTTCAAGGATCCTGTG ctg21fin2 21
13593 I A CTGACGGGGCTGTACTAGAGGCAGCCT
13593 P G A ATGACGTGGCAGACGTGGCCTCCTGTGTTY
13593 P A A CGCGCCCAGGATGGCCTCCTGTGTTY
13593 T G A TATGAACACAGGAGGCCACGGCTGCCTCTAGTACAGCCCCGTCAGAA
13593 T A A TATGAACACAGGAGGCCATGGCTGCCTCTAGTACAGCCCCGTCAGAA
13593 IS [GA] TCTGCAGACTGCCTCAGGCCACTCCCTGTCTTTCTGACGGGGCTGTACTAGAGCCAGCC[GA]TGGCCTCCTGTGTTCATATGGTCTGTGGCTGTCAATGCCTCAGCGGCGGTGTTGAAAGAC ctg21fin2 21
13615 I A GCTTCCGAAAGCAGAAAGGAAGAAGAAAGGGCT
13615 P G A ATGACGTGGCAGACGGGGAGAGCGGGY
13615 P C A CGCGCCGAGGCGGGAGAGCGGGY
13615 T G A CCACCCCGCTCTCCCCGCCCTTTCTCTCTCCTTTCTCCTTTCGGAAGCCG
13615 T C A CCACCCCGCTCTCCCGCCCTTTCTCTCTCCTTTCTCCTTTCGGAAGCCG
13615 IS [GC] TGTGCCTCTGCTCCGCTGCGCACCGCGCTTCCGAAAGGAGAAAGGAGAAGAAAGGGC[GC]GGGAGAGCGGGGTGGAGGATTTGGACAGGCCCTGGAGGCTTGGGCTGGGGAGGCCTCTGG ctg21fin2 21
13671 I A TCTCTCCTGGCACAACTGGGCCCCT
13671 P A A CGCGCCGAGGAAAATGGGCAAGGAGCY
13671 P C A ATGACGTGGCAGACAAATGGGCAAGGAGCY

FIGURE 129F

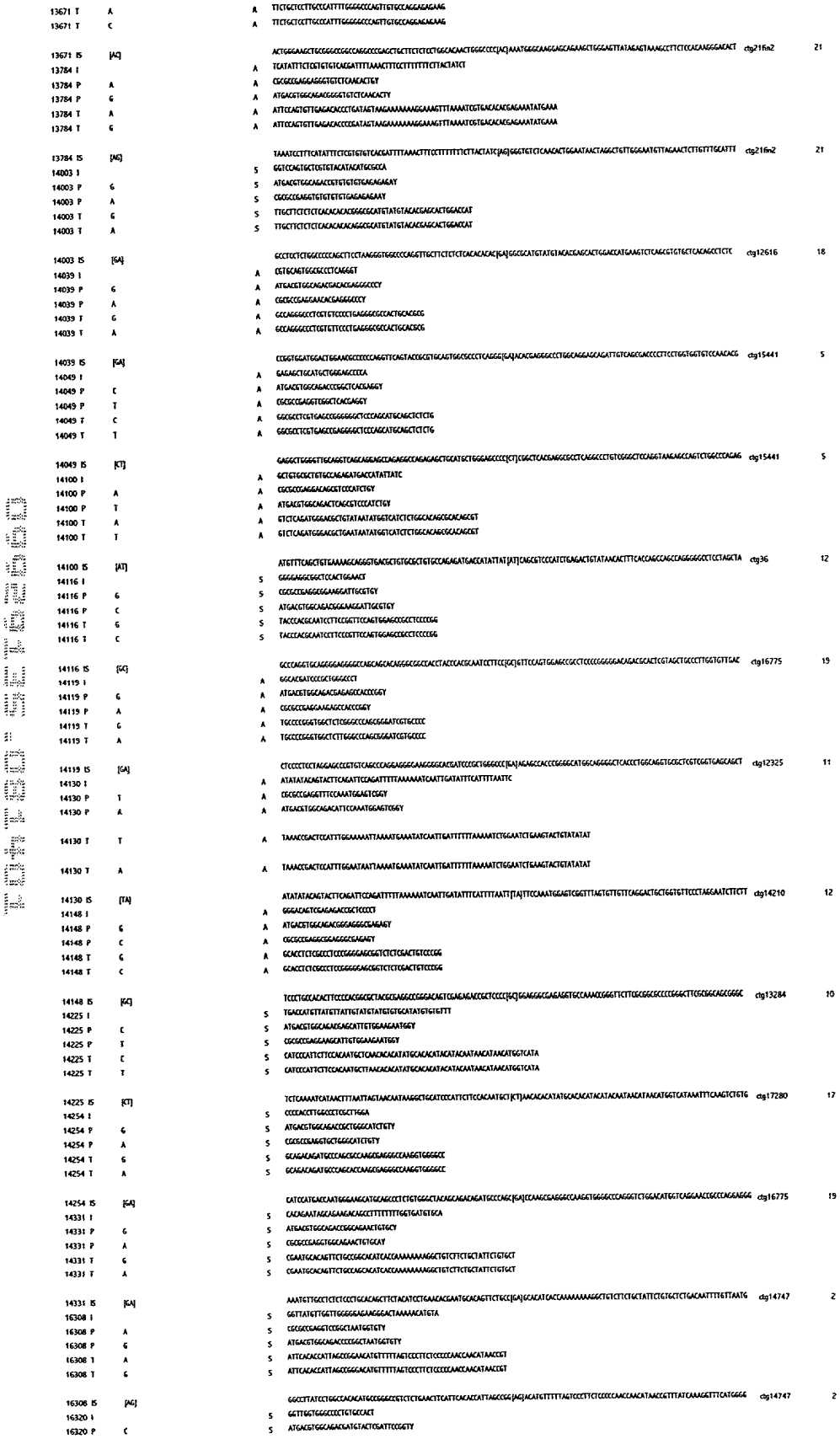
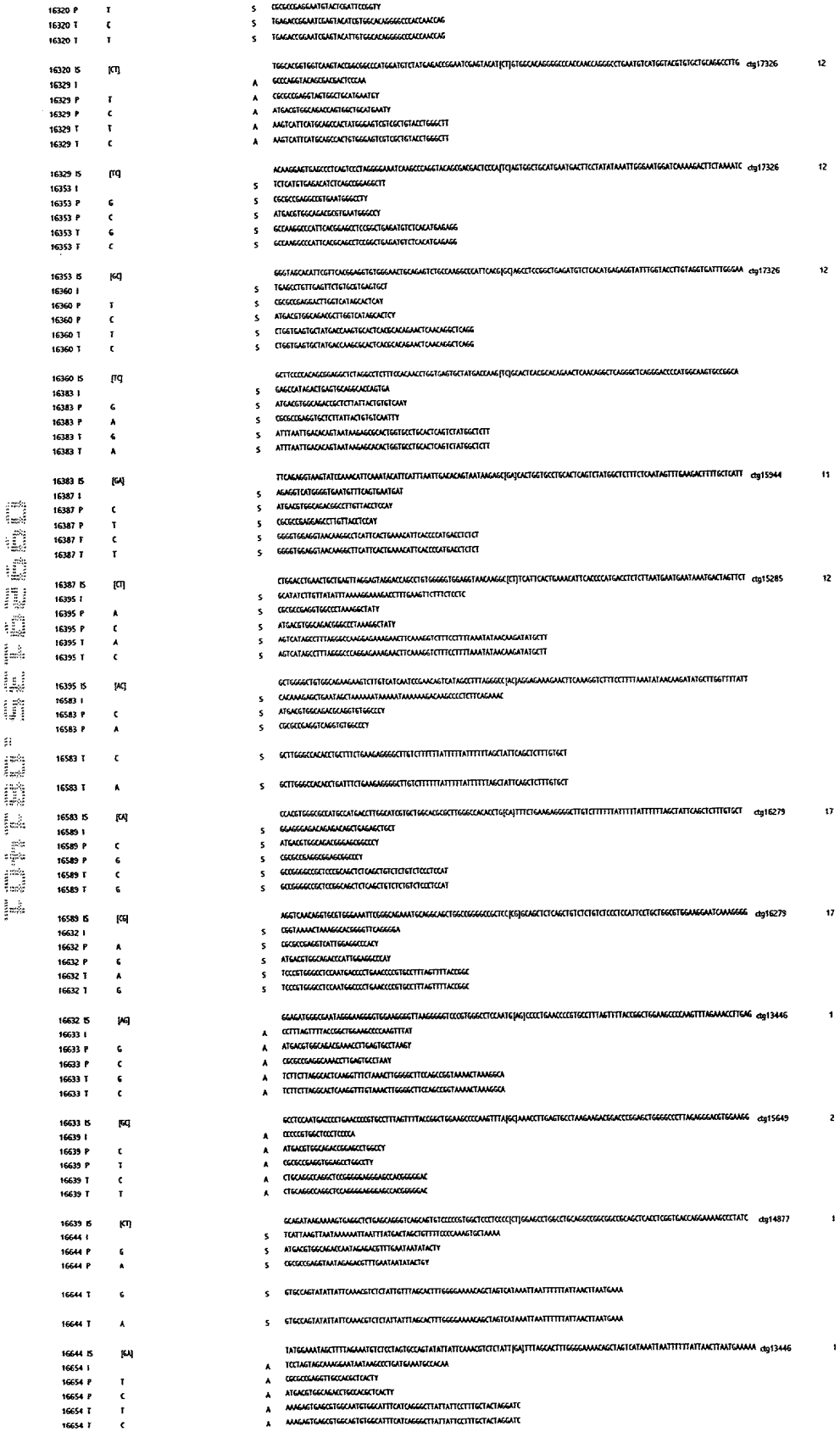

13671 T A A TTCTGCTCCTTGCCCATTTTGGGGCCCAGTTGTGCCAGGAGAGAAG
13671 T C A TTCTGCTCCTTGCCCATTTGGGGGCCCAGTTGTGCCAGGAGAAG
13671 IS [AC] ACTGGGAAGCTGCGGGCCGGCCAGGCCCGAGCTGCTTCCTCCTGGCACAACTGGGCCCC[AC]AAATGGGCAAGGAGCAGAAGCTGGGAGTTATAGAGTAAAGCCTTCTCCACAAGGGACACT ctg21fin2 21
13784 I A TCATATTCTCGTGTGTCAGGATTTTAAACTTTCCTTTTTTCTTACTATCT
13784 P A A CGCGCCGAGGAGGGTGTCTCAACACTGY
13784 P G A ATGACGTGGCAGACGGGGTGTCTCAACACTY
13784 T A A ATTCCAGTGTTGAGACACCCTGATAGTAAGAAAAAAAGGAAAGTTTAAAATCGTGACACACGAGAAATATGAAA
13784 T G A ATTCCAGTGTTGAGACACCCCGATAGTAAGAAAAAAAGGAAAGTTTAAAATCGTGACACACGAGAAATATGAAA
13784 IS [AG] TAAATCCTTTCATATTTCTCGTGTGTCACGATTTTAAACTTTCCTTTTTTCTTACTATC[AG]GGGTGTCTCAACACTGGAATAACTAGGCTGTTGGGAATGTTAGAACTCTTGTTTGCATTT ctg21fin2 21
14003 I S GGTCCAGTGCTCGTGTACATACATGCGCCA
14003 P G S ATGACGTGGCAGACCGTGTGTGTGAGAGAGAY
14003 P A S CGCGCCGAGGTGTGTGTGTGAGAGAGAAY
14003 T G S TTGCTTCTCTCTCACACACACGGGCGCATGTATGTACACGAGCACTGGACCAT
14003 T A S TTGCTTCTCTCTCACACACACAGGCGCATGTATGTACACGAGCACTGGACCAT
14003 IS [GA] GCCTCCTCTGGCCCCCAGCTTCCTAAGGGTGGCCCAGGTTGCTTCTCTCTCACACACAC[GA]GGCGCATGTATGTACACGAGCACTGGACCATGAAGTCTCAGCGTGTGCTCACAGCCTCTC ctg12616 18
14039 I A CGTGCAGTGGCGCCCTCAGGGT
14039 P G A ATGACGTGGCAGACGACACAGGGCCCY
14039 P A A CGCGCCGAGGAACACGAGGGCCCY
14039 T G A GCCAGGGCCCTCGTGTCCCCTGAGGGCGCCACTGCACGCG
14039 T A A GCCAGGGCCCTCGTGTTCCCTGAGGGCGCCACTGCACGCG
14039 IS [GA] CCGGTGGATGGACTGGAACGCCCCCAGGTTCAGTACCGCGTGCAGTGGCGCCCTCAGGG[GA]ACACGAGGGCCCTGGCAGGAGCAGATTGTCAGCGACCCCTTCCTGGTGGTGTCCAACACG ctg15441 5 L1CAM
14049 I A GAGAGCTGCATGCTGGGAGCCCCA
14049 P C A ATGACGTGGCAGACCGGCTCACGAGGY
14049 P T A CGCGCCGAGGTGGCTCACGAGGY
14049 T C A GGCGCCTCGTGAGCCGAGGGGCTCCCAGCATGCAGCTCTCTG
14049 T T A GGCGCCTCGTGAGCCGAGGGGCTCCCAGCATGCAGCTCTCTG
14049 IS [CT] GAGGCTGGGGTTGCAGGTCAGCAGGAGCAGAGGCCAGAGAGCTGCATGCTGGGAGCCCC[CT]CGGCTCACGAGGCGCCTCAGGCCCTGTCGGGCTCCAGGTAAGAGCCAGTCTGGCCCAGAG ctg15441 5
14100 I A GCTGTGCGCTGTGCCAGAGATGACCATATTATC
14100 P A A CGCGCCGAGGAACAGCGTCCCATCTGY
14100 P T A ATGACGTGGCAGACTCAGCGTCCCATCTGY
14100 T A A GTCTCAGATGGGAACGCTGTATAATATGGTCATCTCTGGCACAGCGCACAGCGT
14100 T T A GTCTCAGATGGGAACGCTGAATAATATGGTCATCTCTGGCACAGCGCACAGCGT
14100 IS [AT] ATGTTTCAGCTGTGAAAAGCAGGGTGACGCTGTGCGCTGTGCCAGAGATGACCATATTAT[AT]CAGCGTCCCATCTGAGACTGTATAACACTTTCACCAGCCAGCCAGGGGGCCTCCTAGCTA ctg36 12
14116 I S GGGGAGGCGGCTCCACTGGAACT
14116 P G S CGCGCCGAGGCGGAAGGATTGCGTGY
14116 P C S ATGACGTGGCAGACGGGAAGGATTGCGTGY
14116 T G S TACCCACGCAATCCTTCCGGTTCCAGTGGAGCCGCCTCCCCGG
14116 T C S TACCCACGCAATCCTTCCGGTTCCAGTGGAGCCGCCTCCCCGG
14116 IS [GC] GCCCAGGTGCAGGGGAGGGGCCAGCAGCACAGGGCGGCCACCTACCCACGCAATCCTTCC[GC]GTTCCAGTGGAGCCGCCTCCCCGGGGGACAGACGCACTCGTAGCTGCCCTTGGTGTTGAC ctg16775 19
14119 I A GGCACGATCCCGCTGGGCCCT
14119 P G A ATGACGTGGCAGACGAGAGCCACCGGY
14119 P A A CGCGCCGAGGAAGAGCCACCGGY
14119 T G A TGCCCCGGGTGGCTCTCGGGCCCAGCGGGATCGTGCCCC
14119 T A A TGCCCCGGGTGGCTCTTGGGCCCAGCGGGATCGTGCCCC
14119 IS [GA] CTCCCCTCCTAGGAGCCCGTGTCAGCCCAGGAGGGCAAGGGGGACGATCCCGCTGGGCCC[GA]AGAGCCACCCGGGGCATGGCAGGGGCTCACCCTGGCAGGTGCGCTCGTCGGTGAGCAGCT ctg12325 11
14130 I A ATATATACAGTACTTCAGATTCCAGATTTTTAAAAAATCAATTGATATTTCATTTTAATTC
14130 P T A CGCGCCGAGGTTTCCAAATGGAGTCGGY
14130 P A A ATGACGTGGCAGACATTCCAAATGGAGTCGGY
14130 T T A TAAACCGACTCCATTTGGAAAATTAAAATGAAATATCAATTGATTTTTAAAAATCTGGAATCTGAAGTACTGTATATAT
14130 T A A TAAACCGACTCCATTTGGAATAATTAAAATGAAATATCAATTGATTTTTAAAAATCTGGAATCTGAAGTACTGTATATAT
14130 IS [TA] ATATATACAGTACTTCAGATTCCAGATTTTTAAAAAATCAATTGATATTTCATTTTAATT[TA]TTCCAAATGGAGTCGGTTTAGTGTTGTTCAGGACTGCTGGTGTTCCCTAGGAATCTTCTT ctg14210 12
14148 I A GGGACAGTCGAGAGACCGCTCCCCT
14148 P G A ATGACGTGGCAGACGGGAGGGCGAGAGY
14148 P C A CGCGCCGAGGCGCAGGGCGAGAGY
14148 T G A GCACCTCTCGCCCTCCCGGGGAGCGGTCTCTCGACTGTCCCGG
14148 T C A GCACCTCTCGCCCTCCCGGGGGAGCGGTCTCTCGACTGTCCCGG
14148 IS [GC] TCCCTGCCACACTTCCCCACGGCGCTACGCGAGGCCGGGACAGTCGAGAGAGCCGCTCCCC[GC]GGAGGGCGAGAGGTGCCAAACCGGGTTCTTGCCGGCGCCCCCGGCTTCGCGGCAGCGGGC ctg13284 10
14225 I S TGACCATGTTATGTTATTGTATGTATGTGTGCATATGTGTGTTT
14225 P C S ATGACGTGGCAGAGCAGCATTGTGGAAGAATGGY
14225 P T S CGCGCCGAGGAAGCATTGTGGAAGAATGGY
14225 T C S CATCCCATTCTTCCACAATGCTCAACACACATATGCACACATACATACAATAACATAACATGGTCATA
14225 T T S CATCCCATTCTTCCACAATGCTTAACACACATATGCACACATACATACAATAACATAACATGGTCATA
14225 IS [CT] TCTCAAAATCATAACTTTAATTAGTAACAATAAGGCTGCATTCCCATTCTTCCACAATGC[CT]AACACACATATGCACACATACATACAATAACATAACATGGTCATAAATTTCAAGTCTGTG ctg17280 17
14254 I S CCCCACCTTGGCCCTCGCTTGGA
14254 P G S ATGACGTGGCAGACCGCTGGGCATCTGTY
14254 P A S CGCGCCGAGGTGCTGGGCATCTGTY
14254 T G S GCAGACAGATGCCCAGCGCCAAGCGAGGGCCAAGGTGGGGCC
14254 T A S GCAGACAGATGCCCAGCACCAAGCGAGGGCCAAGGTGGGGCC
14254 IS [GA] CATCCATCAACAATGGGAAGCATGCAGCCCTCTGTGGGCTACAGCAGACAGATGCCCAGC[GA]CCAAGCGAGGGCCAAGCTGGGGCCCAGGCTCTGGACATGGTCAGGAACCGCCCAGAGAGG ctg16775 19
14331 I S CACAGAATAGCAGAAGACAGCCTTTTTTTGGTGATGTGCA
14331 P G S ATGACGTGGCAGACCGGCAGAACTGTGCY
14331 P A S CGCGCCGAGGTGGCAGAACTGTGCAY
14331 T G S CGAATGCACAGTTCTGCCGGCACATCACCAAAAAAAAGGCTGTCTTCTGCTATTCTGTGCT
14331 T A S CGAATGCACAGTTCTGCCAGCACATCACCAAAAAAAAGGCTGTCTTCTGCTATTCTGTGCT
14331 IS [GA] AAATGTTGCCTCTCTCCCTGCACAGCTTCTACATCCTGAACACGAATGCACAGTTCTGCC[GA]GCACATCACCAAAAAAAAGGCTGTCTTCTGCTATTCTGTGCTCTGACAATTTTGTTAATG ctg14747 2
16308 I S GGTTATGTTGGTTGCGGGGAGAAGGGACTAAAAACATGTA
16308 P A S CGCGCCGAGGTCCGGCTAATGGTGTY
16308 P G S ATGACGTGGCAGACCCCGGCTAATGGTGTY
16308 T A S ATTCACACCATTAGCCGGGACATGTTTTTAGTCCCTTCTCCCCCAACCAACATAACCGT
16308 T G S ATTCACACCATTAGCCGGGACATGTTTTTAGTCCCTTCTCCCCCAACCAACATAACCGT
16308 IS [AG] GGCCTTATCCTGGCCACACATGCCCGGGCCCTCTCTGAACTTCATTCACACCATTAGCCGG[AG]ACATGTTTTTAGTCCCTTCTCCCCCAACCAACATAACCGTTTATCAAAGGTTTCATGGGG ctg14747 2
16320 I S GGTTGGTGGGCCCCTGTGCCACT
16320 P C S ATGACGTGGCAGACGATGTACTCGATTCCGGTY

FIGURE 129F



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FIGURE 129F

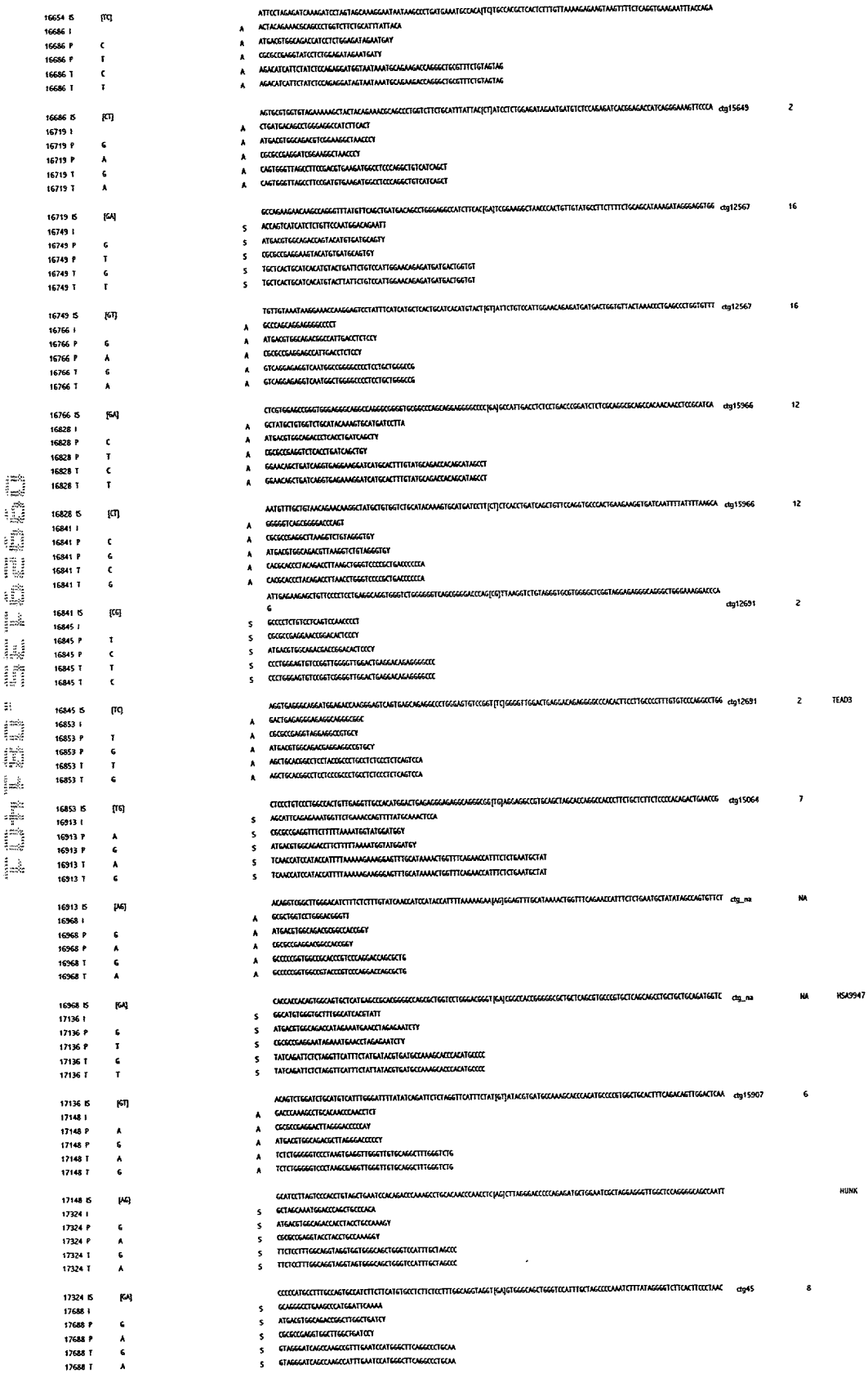

16654 IS [TC] ATTCCTAGAGATCAAAGATCCTAGTAGCAAAGGAATAATAAGCCCTGATGAAATGCCACA[TC]TGCCACGCTCACTCTTTGTTAAAAGAGAAGTAAGTTTTCTCAGGTGAAGAATTTACCAGA
16686 I A ACTACAGAAACSCAGCCCTGGTCTTCTGCATTTATTACA
16686 P C A ATGACGTGGCAGACCATCCTCTGGAGATAGAATGAY
16686 P T A CGCGCCGAGGTATCCTCTGGAGATAGAATGATY
16686 T C A AGACATCATTCTATCTCCAGAGGATGGTAATAAATGCAGAAGACCAGGGCTGCGTTTCTGTAGTAG
16686 T T A AGACATCATTCTATCTCCAGAGGATAGTAATAAATGCAGAAGACCAGGGCTGCGTTTCTGTAGTAG
16686 IS [CT] AGTGCGTGGTGTAGAAAAAGCTACTACAGAAACGCAGCCCTGGTCTTCTGCATTTATTAC[CT]ATCCTCTGGAGATAGAATGATGTCTCCAGAGATCCACGGAGACCATCAGGGAAAGTTCCCA ctg15649 2
16719 I A CTGATGACAGCCTGGGAGGCCATCTTCACT
16719 P G A ATGACGTGGCAGACGTCGGAAGGCTAACCCY
16719 P A A CGCGCCGAGGATCGGAAGGCTAACCCY
16719 T G A CAGTGGGTTAGCCTTCCGACGTGAAGATGGCCTCCCAGGCTGTCATCAGCT
16719 T A A CAGTGGGTTAGCCTTCCGATGTGAAGATGGCCTCCCAGGCTGTCATCAGCT
16719 IS [GA] GCCAGAAGAACAAGCCAGGGTTTATGTTCAGCTGATGACAGCCTGGGAGGCCATCTTCAC[GA]TCGGAAGGCTAACCCACTGTTGTATGCCTTCTTTTCTGGAGCATAAAGATAGGGAGGTGG ctg12567 16
16749 I S ACTAGTCATCATCTCTGTTCCAATGGACAGAATT
16749 P G S ATGACGTGGCAGACAGTACATGTGATGCAGTY
16749 P T S CGCGCCGAGGAAGTACATGTGATGCAGTGY
16749 T G S TGCTCACTGCATCACATGTACTGATTCTGTCCATTGGAACAGAGATGATGACTGGTGT
16749 T T S TGCTCACTGCATCACATGTACTTATTCTGTCCATTGGAACAGAGATGATGACTGGTGT
16749 IS [GT] TGTTGTAAATAAGGAAACCAAGGAGTCCTATTTCATCATGCTCACTGCATCACATGTACT[GT]ATTCTGTCCATTGGAACAGAGATGATGACTGGTGTTACTAAACCCTGAGCCCTGGTGTTT ctg12567 16
16766 I A GCCCAGCAGGAGGGGCCCCT
16766 P G A ATGACGTGGCAGACGGCCATTGACCTCTCCY
16766 P A A CGCGCCGAGGAGCCATTGACCTCTCCY
16766 T G A GTCAGCAGAGGTCAATGGCTGGGGCCCCTCCTCTGCTGGGCCG
16766 T A A GTCAGCAGAGGTCAATGGCTGGGGCCCCTCCTCTGCTGGGCCG
16766 IS [GA] CTCGTGGAGCCGGGTGGGAGGGCAGGCCAGGCCGGGGTGCGGCCCAGCAGGAGGGGCCCC[GA]GCCATTGACCTCTCCTGACCCGGATCTCTCGCAGGCGCAGCCACAACAACCTCCGCATCA ctg15966 12
16828 I A GCTATGCTGTGGTCTGCATACAAAGTGCATGATCCTTA
16828 P C A ATGACGTGGCAGACCCTCACCTGATCAGCTY
16828 P T A CGCGCCGAGGTCTCACCTGATCAGCTGY
16828 T C A GGAACAGCTGATCAGGTGAGGAAGGATCATCGCACTTTGTATGCAGACACAGCATAGCCT
16828 T T A GGAACAGCTGATCAGGTGAGGAAGGATCATCGCACTTTGTATGCAGACACAGCATAGCCT
16828 IS [CT] AATGTTGCTGTAACAGAACAAGGCTATGCTGTGGTCTGCATACAAAGTGCATGATCCTT[CT]CTCACCTGATCAGCTGTTCCAGGTGCCCACTGAAGAAGGTGATCAATTTTATTTTAAGCA ctg15966 12
16841 I A GGGGGTCAGCGGGGACCCAGT
16841 P C A CGCGCCGAGGCTTAAGGTCTGTAGGGGTGY
16841 P G A ATGACGTGGCAGACGTTAAGGTCTGTAGGGGTGY
16841 T C A CACGCACCCTACAGACCTTAAGCTGGGTCCCCCGCTGACCCCCCA
16841 T G A CACGCACCCTACAGACCTTAACCTGGGTCCCCCGCTGACCCCCCA
16841 IS [CG] ATTGAGAAGAGCTGTTCCCCTCCTGAGGCAGGTGGGTCTGGGGGGTCAGCGGGGCACCCAG[CG]TTAAGGTCTGTAGGGGTGCGTGGGGCTCGGTAGGAGAGGGCAGGGCTGGGAAAGGACCCA G ctg12691 2
16845 I S GCCCCTCTGTCCTCAGTCCAACCCCT
16845 P T S CGCGCCGAGGAACCGGACACTCCCY
16845 P C S ATGACGTGGCAGACGACCGGACACTCCCY
16845 T T S CCCTGGGAGTGTCCGGTCGGGGTTGGGGTTGGACTGAGGACAGAGGGGCCC
16845 T C S CCCTGGGAGTGTCCGGTCGGGGTTGGACTGAGGACAGAGGGGCCC
16845 IS [TC] AGGTGAGGGCAGGATGGAGACCAAGGGAGTCAGTGAGCAGAGGCCCTGGGAGTGTCCGGT[TC]GGGGTTGGACTGAGGACAGAGGGGCCCACACTTCCTTGCCCCTTTGTGTCCCAGGCCTGG ctg12691 2 TEAD3
16853 I A GACTGAGAGGCAGAGGCAGGGCGGC
16853 P T A CGCGCCGAGGTAGGAGGCCGTGCY
16853 P G A ATGACGTGGCAGACGAGGAGGCCGTGCY
16853 T T A AGCTGCACGGCCTCCTACCGCCTGCCTCTCCCTCTCAGTCCA
16853 T G A AGCTGCACGGCCTCCTCCCGCCTGCCTCTCCCTCTCAGTCCA
16853 IS [TG] CTCCCTGTCCCTGGCCACTGTTGAGGTTGCCACATGGACTGAGAGGGAGAGGCAGGGCGG[TG]AGCAGGCCGTGCAGCTAGCACCAGGCCACCCTTCTGCTCTTCTCCCCACAGACTGAACCG ctg15064 7
16913 I S AGCATTCAGAGAAATGGTTCTGAAACCAGTTTTATGCAAACTCCA
16913 P A S CGCGCCGAGGTTTCTTTTTAAAATGGTATGGATGGY
16913 P G S ATGACGTGGCAGACCTTCTTTTTAAAATGGTATGGATGY
16913 T A S TCAACCATCCATACCATTTTAAAAAGAAAGGAGTTTGCATAAAACTGGTTTCAGAACCATTTCTCTGAATGCTAT
16913 T G S TCAACCATCCATACCATTTTAAAAAGAAAGGAGTTTGCATAAAACTGGTTTCAGAACCATTTCTCTGAATGCTAT
16913 IS [AG] ACAGGTCGGCTTGGGACATCTTTCTCTTTGTATCAACCATCCATACCATTTTAAAAAGAA[AG]GGAGTTTGCATAAAACTGGTTTCAGAACCATTTCTCTGAATGCTATATAGCCAGTGTTCT ctg_na NA
16968 I A GCGCTGGTCCTGGGACGGGTT
16968 P G A ATGACGTGGCAGACGCGGCCACCGGY
16968 P A A CGCGCCGAGGACGCCACCGGY
16968 T G A GCCCCCGGTGGCCGTACCGGTCCCAGGACCAGCGCTG
16968 T A A GCCCCCGGTGGCCGTACCGGTCCCAGGACCAGCGCTG
16968 IS [GA] CACCACCACAGTGGCAGTGCTCATGAGCCGCACGGGGCCAGCGCTGGTCCTGGGACGGGT[GA]CGCCACCGGGGGCGCTGCTCAGCGTGCCCGTGCTCAGCAGCCTGCTGCTGCAGATGGTC ctg_na NA HSA9947
17136 I S GGCATGTGGGTGCTTTGGCATCACGTATT
17136 P G S ATGACGTGGCAGACCATAGAAATGAACCTAGAGAATCTY
17136 P T S CGCGCCGAGGAATAGAAATGAACCTAGAGAATCTY
17136 T G S TATCAGATTCTCTAGGTTCATTTCTATGATACGTGATGCCAAAGCACCCACATGCCCC
17136 T T S TATCAGATTCTCTAGGTTCATTTCTATTATACGTGATGCCAAAGCACCCACATGCCCC
17136 IS [GT] ACAGTCTGGATCTGCATGTCATTTGGGATTTTATATCAGATTCTCTAGGTTCATTTCTAT[GT]ATACGTGATGGCAAAGCACCCACATGCCCCGTGGCTGCACTTTCAGACAGTTGGACTCAA ctg15907 6
17148 I A GACCCAAAGCCTGCACAACCCAACCTCT
17148 P A A CGCGCCGAGGACTTAGGGACCCCCAY
17148 P G A ATGACGTGGCAGACGCTTAGGGACCCCCY
17148 T A A TCTCTGGGGGTCCCTAAGTGAGGTTGGGTTGTGCAGGCTTTGGGTCTG
17148 T G A TCTCTGGGGGTCCCTAAGCGAGGTTGGGTTGTGCAGGCTTTGGGTCTG
17148 IS [AG] GCATCCTTAGTCCCACCTGTAGCTGAATCCACAGAACCCAAAGCCTGCACAACCCAACCTC[AG]CTTAGGGACCCCCAGAGATGCTGGAATCGCTAGGAGGGTTGGCTCCAGGGGCAGCCAATT HUNK
17324 I S GCTAGCAAATGGACCCAGCTGCCCACA
17324 P G S ATGACGTGGCAGACCCACCTACCTGCCAAAGY
17324 P A S CGCGCCGAGGTACCTACCTGCCAAAGGY
17324 T G S TTCTCCTTTGGCAGGTAGGTGGTGGGCAGCTGGGTCCATTTGCTAGCCC
17324 T A S TTCTCCTTTGGCAGGTAGGTAGTGGGCAGCTGGGTCCATTTGCTAGCCC
17324 IS [GA] CCCCCATGCCTTTGCCAGTGCCATCTTCTTCATGTGCCTCTTCTCCTTTGGCAGGTAGGT[GA]GTGGGCAGCTGGGTCCATTTGCTAGCCCCAAATCTTTATAGGGGTCTTCACTTCCCTAAC ctg45 8
17688 I S GCAGGGCCTGAAGCCCATGGATTCAAAA
17688 P G S ATGAGTGGCAGACCGGCTGGCTGATCY
17688 P A S CGCGCCGAGGTGGCTTGGCTGATCCY
17688 T G S GTAGGGATCAGCCAAGCCGTTTGAATCCATGGGCTTCAGGCCCTGCAA
17688 T A S GTAGGGATCAGCCAAGCCATTTGAATCCATGGGCTTCAGGCCCTGCAA

FIGURE 129F

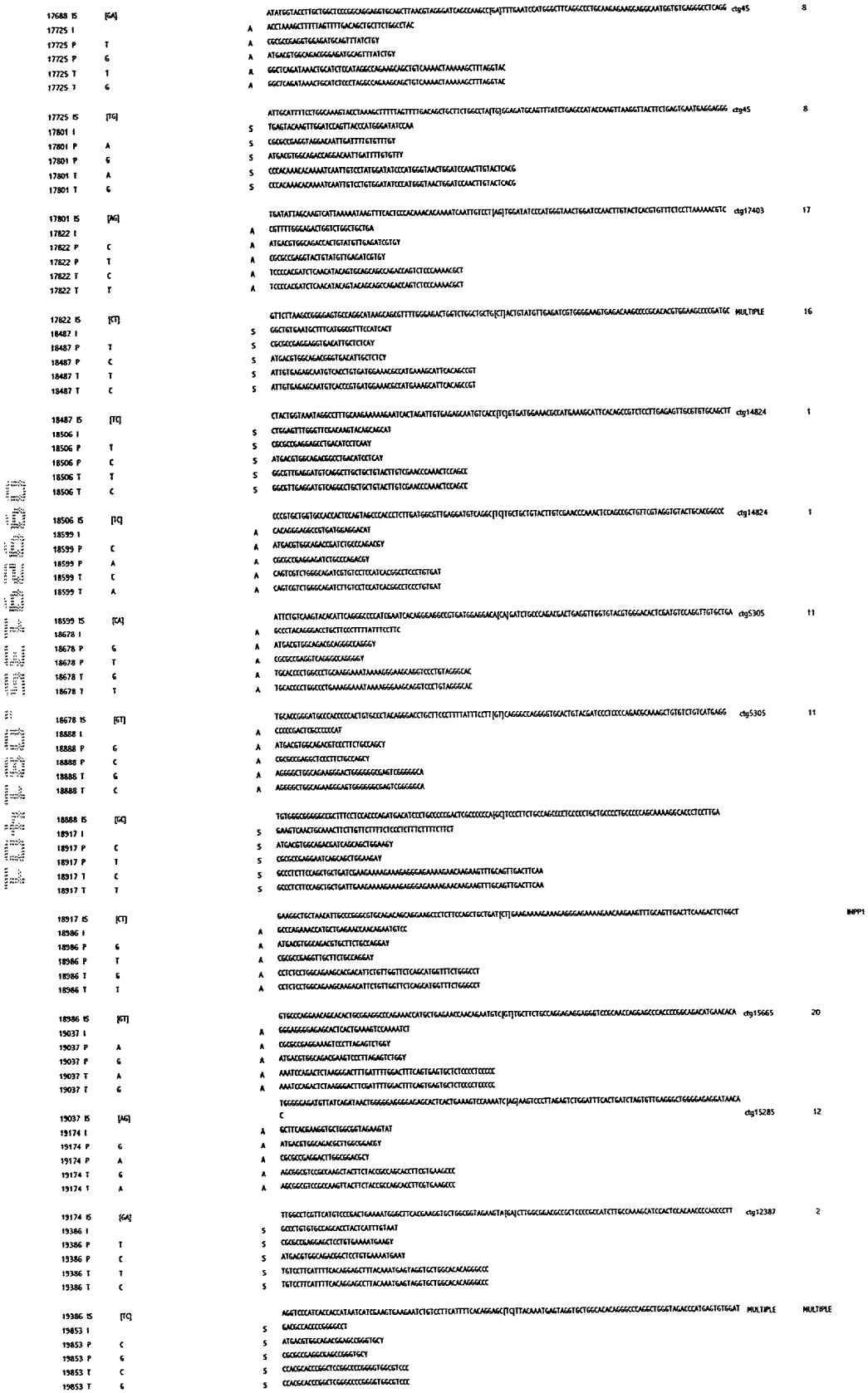


FIGURE 129F

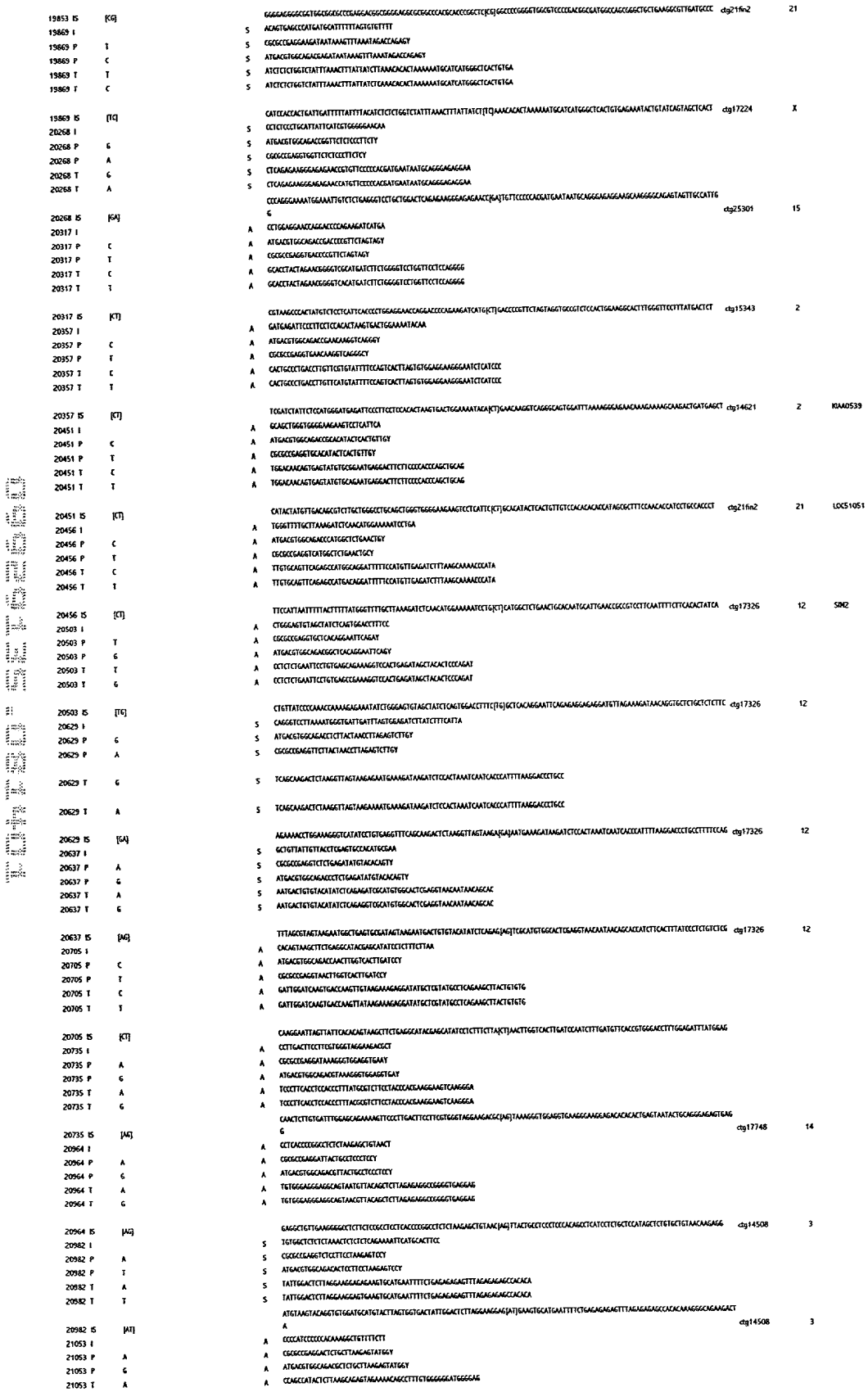
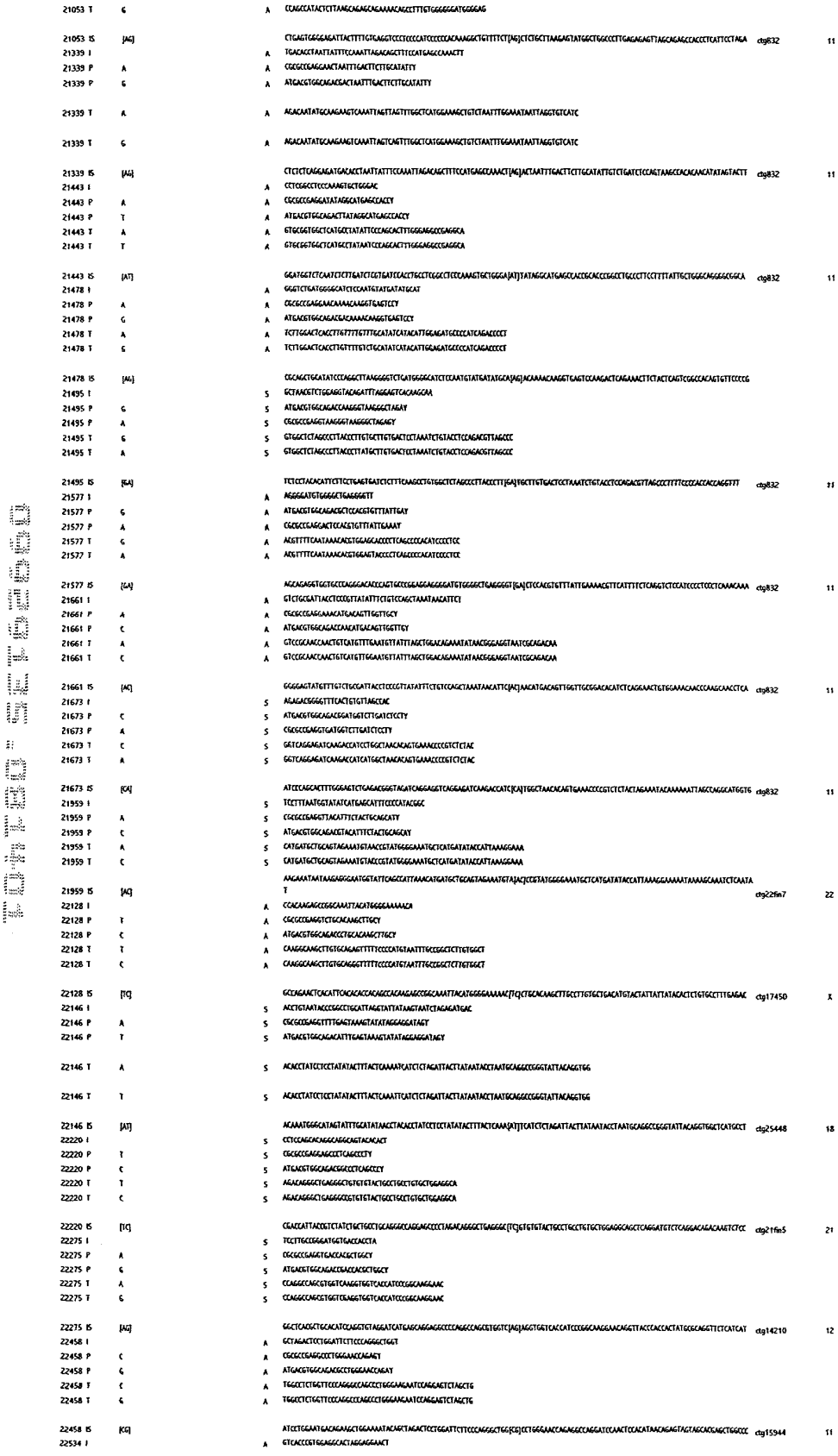


FIGURE 129F


21053 T G A CCAGCCATACTCTTAAGCAGAGCAGAAAACAGCCTTTGTGGGGGGATGGGGAG
21053 IS [AG] CTGAGTGGGGAGATTACTTTTGTCAGGTCCCTCCCCATCCCCCCACAAAGGCTGTTTCT[AG]CTCTGCTTAAGAGTATGGCTGGCCCTTGAGAGAGTTAGCAGAGCCACCCTCATTCCTAGA ctg832 11
21339 I A TGACACCTAATTATTTCCAAATTAGACAGCTTTCCATGAGCCAAACTT
21339 P A A CGCGCCGAGGAACTAATTGCACTTCTTGCATATTY
21339 P G A ATGACGTGGCAGACGACTAATTTGACTTCTTGCATATTY
21339 T A A AGACAATATGCAAGAAGTCAAATTAGTTAGTTTGGCTCATGGAAAGCTGTCTAATTTGGAAATAATTAGGTGTCATC
21339 T G A AGACAATATGCAAGAAGTCAAATTAGTCAGTTTGGCTCATGGAAAGCTGTCTAATTTGGAAATAATTAGGTGTCATC
21339 IS [AG] CTCTCTCAGGAGATGACACCTAATTATTTCCAAATTAGACAGCTTTCCATGAGCCAAACT[AG]ACTAATTTGACTTCTTGCATATTGTCTGATCTCCAGTAAGCCACACAACATATAGTACTT ctg832 11
21443 I A CCTCGGCCTCCCAAAGTGCTGGGAC
21443 P A A CGCGCCGAGGATATAGGCATGAGCCACCY
21443 P T A ATGACGTGGCAGACTTATAGGCATGAGCCACCY
21443 T A A GTGCGGTGGCTCATGCCTATATTCCCAGCACTTTGGGAGGCCGAGGCA
21443 T T A GTGCGGTGGCTCATGCCTATAATCCCAGCACTTTGGGAGGCCGAGGCA
21443 IS [AT] GCATGGTCTCAATCTCTTGATCTGTGATCCACCTGCCTCGGCCTCCCAAAGTGCTGGGATT]TATAGGCATGAGCCACCGCACCCGGCCTGCCCTTCCTTTTATTGCTGGGCAGGGGCGGCA ctg832 11
21478 I A GGGTCTGATGGGGCATCTCCAATGTATGATATGCAT
21478 P A A CGCGCCGAGGAACAAAACAAGGTGAGTCCY
21478 P G A ATGACGTGGCAGACGACAAAACAAGGTGAGTCCY
21478 T A A TCTTGGACTCACCTTGTTTTGTTTGCATATCATACATTGGAGATGCCCCATCAGACCCCT
21478 T G A TCTTGGACTCACCTGTTTTGTCTGCATATCATACATTGGAGATGCCCCATCAGACCCCT
21478 IS [AG] CGCAGCTGCATATCCCAGGCTTAAGGGGTCTGATGGGGCATCTCCAATGTATGATATGCA[AG]ACAAAACAAGGTGAGTCCAAGACTCAGAAACTTCTACTGAGTCGGCCACAGTGTTCCCCG
21495 I S GCTAACGTCTGGAGGTACAGATTTAGGAGTCACAAGCAA
21495 P G S ATGACGTGGCAGACCAAGGGTAAGGGCTAGAY
21495 P A S CGCGCCGAGGTAAGGGTAAGGGCTAGAY
21495 T G S GTGGCTCTAGCCCTTACCCTTGTGCTTGTGACTCCTAAATCTGTACCTCCAGACGTTAGCCC
21495 T A S GTGGCTCTAGCCCTTACCCTTATGCTTGTGACTCCTAAATCTGTACCTCCAGACGTTAGCCC
21495 IS [GA] TCTCCTACACATTCTTCCTGAGTGATCTCTTTCAAGCCTGTGGCTCTAGCCCTTACCCTT[GA]TGCTTTGTGACTCCTAAATCTGTACCTCCAGACGTTAGCCCTTTTCCCCACCACCAGGTTT ctg832 11
21577 I A AGGGGATGTGGGGCTGAGGGGTT
21577 P G A ATGACGTGGCAGACGCTCCACGTGTTTATTGAY
21577 P A A CGCGCCGAGACTCCAGTGTTTATTGAAAY
21577 T G A ACGTTTTCAATAAACACGTGGAGACACCCCTCAGCCCCACATCCCCTCC
21577 T A A ACGTTTTCAATAAACACGTGGAGTACCCCTCAGCCCCACATCCCCTCC
21577 IS [CA] AGCAGAGGTGGTGCCCAGGCACACCCAGTGCCCGCAGGCAGGGGATGTGGGGCTGAGGGGT[GA]CTCCACGTGTTTATTGAAAACGTTCATTTTCTCAGGTCTCCATCCCCTCCCTCAAACAAA ctg832 11
21661 I A GTCTGCGATTACCTCCCGTTATATTTCTGTCCAGCTAAATAACATTCT
21661 P A A CGCGCCGAGCAAACATCACAGTTGGTTGCY
21661 P C A ATGACGTGGCAGACCAACATGACAGTTGGTTGY
21661 T A A GTCCGCAACCAACTGTCATGTTTGAATGTTATTTAGCTGGACAGAAATATAACGGCAGGTAATCGCAGACAA
21661 T C A GTCCGCAACCAACTGTCATGTTGGAATGTTATTTAGCTGGACAGAAATATAACGGCAGGTAATCGCAGACAA
21661 IS [AC] GGGGAGTATGTTTGTCTGCGATTACCTCCCGTTATATTTCTGTCCAGCTAAATAACATTC[AC]AACATGACAGTTGGTTGCGGACACATCTCAGGAACTGTGGAAACAACCCAAGCAACCTCA ctg832 11
21673 I S ACAGACGGGGTTTCACTGTGTTAGCCAC
21673 P C S ATGACGTGGCAGACGGATGGTCTTGATCTCCTY
21673 P A S CGCGCCGAGGTGATGGTCTTGATCTCCTY
21673 T C S GGTCAGGAGATCAAGACCATCCTGGCTAACACAGTGAAACCCCGTCTCTAC
21673 T A S GGTCAGGAGATCAAGACCATCATGGCTAACACAGTGAAACCCCGTCTCTAC
21673 IS [CA] ATCCCAGCACTTTGGGAGTCTGAGACGGGTAGATCAGGAGGTCAGGAGATCAAGACCATC[CA]TGGCTAACACAGTGAAACCCCGTCTCTACTAGAAATACAAAAAATTAGCCAGGCATGGTG ctg832 11
21959 I S TCCTTTAATGGTATATCATGAGCATTTCCCCATACGGC
21959 P A S CGCGCCGAGGTTACATTTCTACTGCAGCATY
21959 P C S ATGACGTGGCAGACGTACATTTCTACTGCAGCAY
21959 T A S CATGATGCTGCAGTAGAAATGTAACCGTATGGGGAAATGCTCATGATATACCATTAAAGGAAA
21959 T C S CATGATGCTGCAGTAGAAATGTAACCGTATGGGGAAATGCTCATGATATACCATTAAAGGAAA
21959 IS [AC] AAGAAATAATAAGAGGGAATGGTATTCAGCCATTAAACATGATGCTGCAGTAGAAATGTA[AC]CCGTATGGGGAAATGCTCATGATATACCATTAAAGGAAAAATAAAGCAAATCTCAATA T ctg22fin7 22
22128 I A CCACAAGAGCCGGCAAATTACATGGGGCAAAAACA
22128 P T A CGCGCCGAGGTCTGCACAAGCTTGCY
22128 P C A ATGACGTGGCAGACCCTGCACAAGCTTGCY
22128 T T A CAAGGCAAGCTTGTGCAGAGTTTTCCCCATGTAATTTGCCGGCTCTTGTGGCT
22128 T C A CAAGGCAAGCTTGTGCAGAGGTTTTCCCCATGTAATTTGCCGGCTCTTGTGGCT
22128 IS [TC] GCCAGAACTCACATTCACACACCACAGCCACAAGAGCCGGCAAATTACATGGGGAAAAAC[TC]CTGCACAAGCTTGCCTTGTGCTGACATGTACTATTATTATACACTCTGTGCCTTTGAGAC ctg17450 X
22146 I S ACCTGTAATACCCGCCTGCATTAGCTATTATAAGTAATCCTACAGATGAC
22146 P A S CGCGCCGAGGTTTGAGTAAAGTATATAGGAGGATAGT
22146 P T S ATGACGTGGCAGACATTTGAGTAAAGTATATAGGAGGATAGY
22146 T A S ACACCTATCCTCCTATATACTTTACTCAAAATCATCTCTAGATTACTTATAATACCTAATGCAGGCCGGGTATTACAGGTGG
22146 T T S ACACCTATCCTCCTATATACTTTACTCAAATTCATCTCTAGATTACTTATAATACCTAATGCAGGCCGGGTATTACAGGTGG
22146 IS [AT] ACAAATGGGCATAGTATTTGCATATAACCTACACCTATCCTCCTATATACTTTACTCAAA[AT]TCATCTCTAGATTACTTATAATACCTAATGCAGGCCGGGTATTACAGGTGGCTCATGCCT ctg25448 18
22220 I S CCTCCAGCACAGGCAGGCAGTACACACT
22220 P T S CGCGCCGAGGAGCCCTCAGCCCTY
22220 P C S ATGACGTGGCAGACGGCCCTCAGCCCY
22220 T T S AGACAGGGCTCAGGGCCTGTGTGTACTGCCTGCCTGTGCTGGAGGCA
22220 T C S AGACAGGGCTCAGGGCCTGTGTACTGCCTGCCTGTGCTGGAGGCA
22220 IS [TC] CGACCATTACCGTCTATCTGCTGCCTGCAGGGCCAGGAGCCCCTAGACAGGGCTGAGGGC[TC]GTGTGTACTGCCTGCCTGTGCTGGAGGCCAGCTCAGGATGTCTCAGGACAGACAACTCTCC ctg21fin5 21
22275 I S TCCTTGCCGGGATGGTGACCACCTA
22275 P A S CGCGCCGAGGTGACCACGCTGGCY
22275 P G S ATGACGTGGCAGACCGACCACGCTGGCY
22275 T A S CCAGGCCAGCGTGGTCAAGGTGGTCACCATCCCGGCAAGGAAC
22275 T G S CCAGGCCAGCGTGGTCGAGGTGGTCACCATCCCGGCAAGGAAC
22275 IS [AC] GGCTCACGCTGCACATCCAGGTGTAGGATCATGAGCAGGAGGCCCCAGGCCAGCGTGGTC[AG]AGGTGGTCACCATCCCGGCAAGGAACAGGTTACCCACCACTATGCGCAGGTTCTCATCAT ctg14210 12
22458 I A GCTAGACTCCTGGATTCTTCCCAGGGCTGGT
22458 P C A CGCGCCGAGGCCCTGGGAACCAGAGY
22458 P G A ATGACGTGGCAGACGCCTGGGAACCAGAY
22458 T C A TGGCCTCTGGTTCCCAGGCCAGCCCTGGGAAGAATCCAGGAGTCTAGCTG
22458 T G A TGGCCTCTGGTTCCCAGGCCAGCCCTGGGAACAATCCAGGAGTCTAGCTG
22458 IS [CG] ATCCTGGAATGACAGAAGCTGGAAAAATACAGCTAGACTCCTGGATTCTTCCCAGGGCTGG[CG]CCTGGGAACCAGAGCCAGGATCCAACTCCACATAACAGAGTAGTAGCACCAGCTGGCCC ctg15944 11
22534 I A GTCACCCGTGGAGGCACTAGCAGGAACT

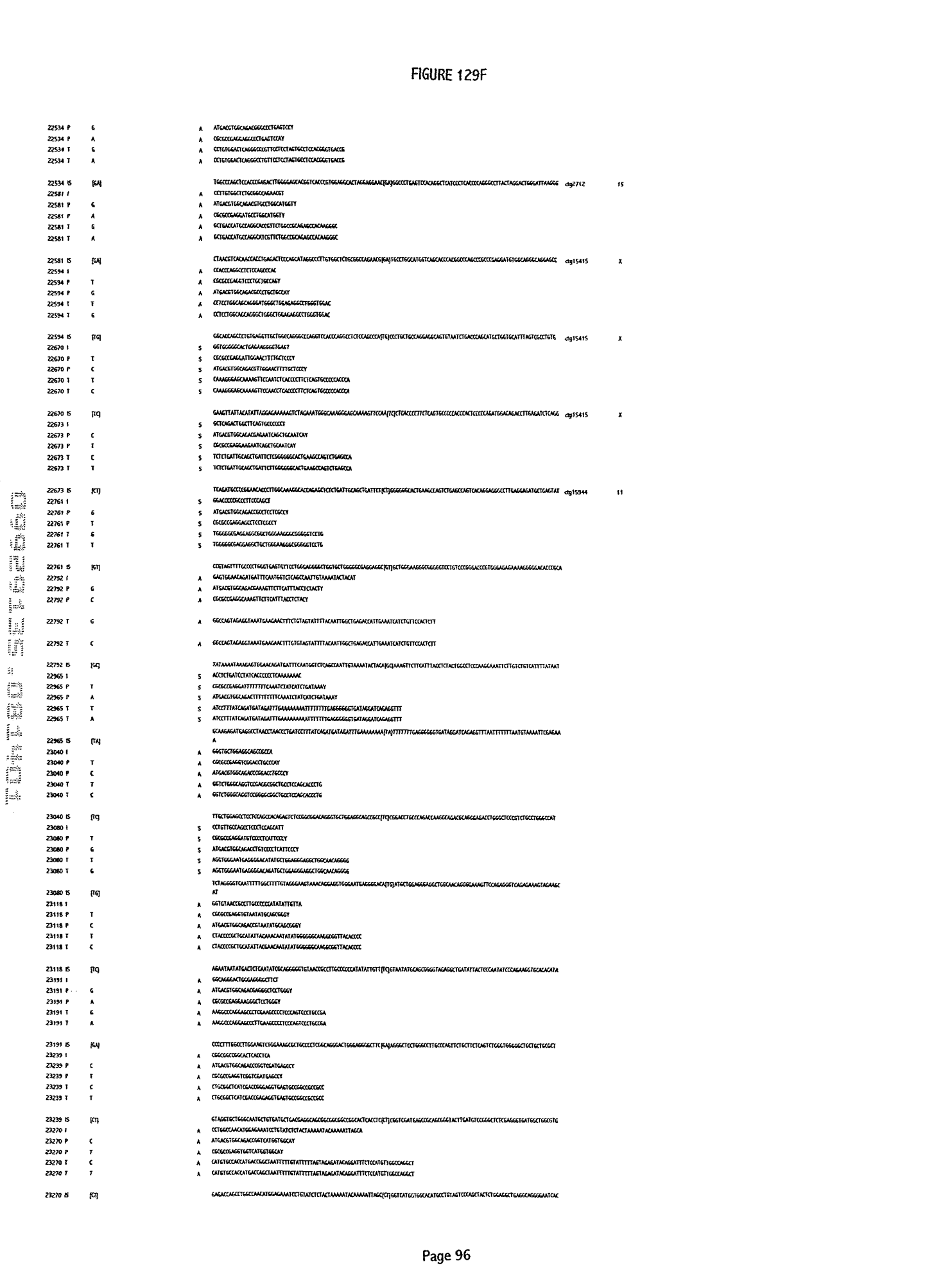
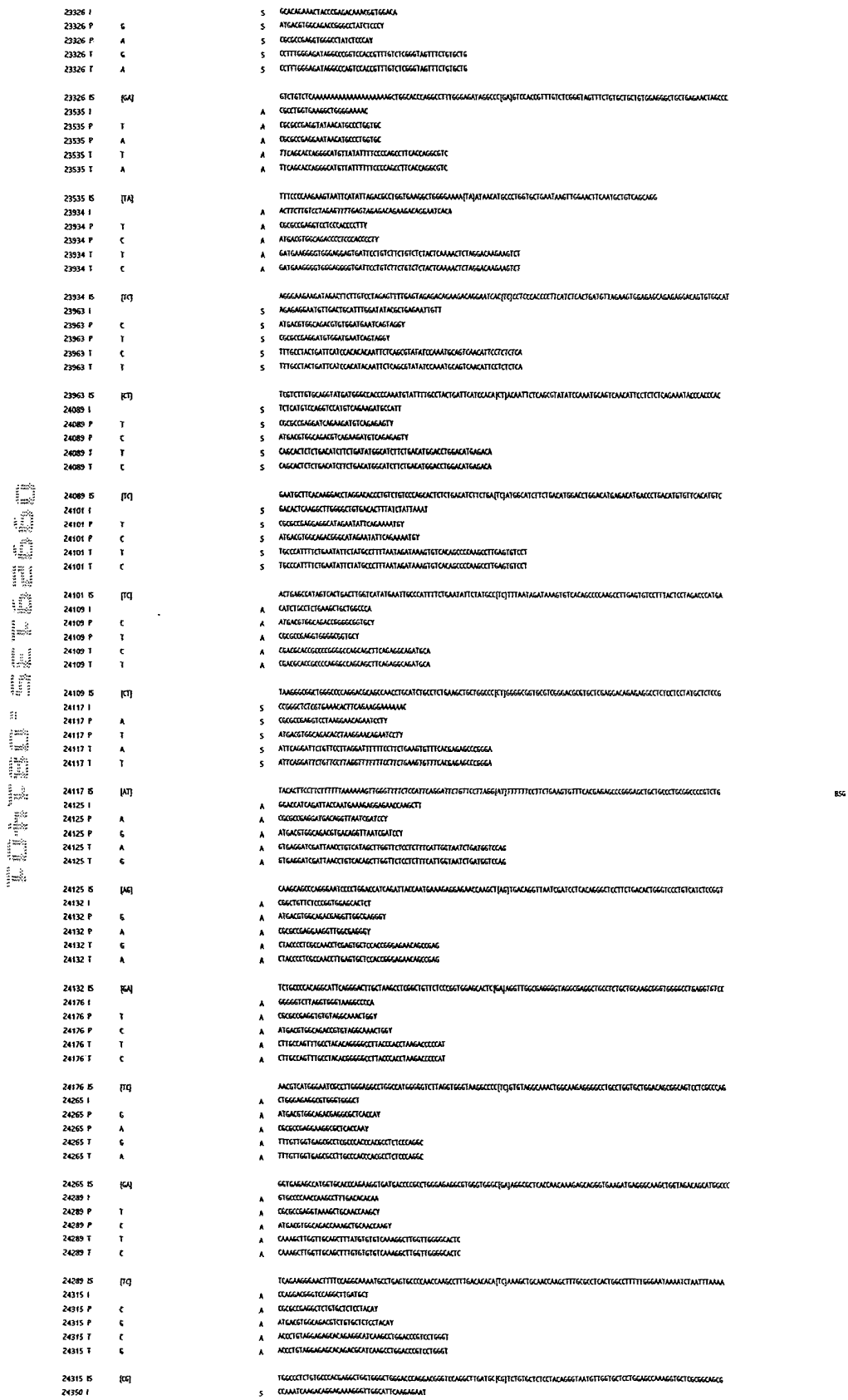

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22534 T G A CCTGTGGACTCAGGGCCCGTTCCTCCTAGTGCCTCCACGGGTGACCG
22534 T A A CCTGTGGACTCAGGGCCTGTTCCTCCTAGTGCCTCCACGGGTGACCG
22534 IS [GA] TGGCCCAGCTCCACCCCAGACTTGGGGAGCAGCAGGTCACCCGTGGAGGCACTAGAGAGGAAC[GA]GGCCCTGAGTCCACAGGCTCATCCCTCACCCCAGGGCCTTACTAGGACTGGGATTAAGGG ctg2712 15
22581 I A CCTTGTGGCTCTGCGGCCAGAACGT
22581 P G A ATGACGTGGCAGACGTGCCTGGCATGGTY
22581 P A A CGCGCCGAGGATGCCTGGCATGGTY
22581 T G A GCTGACCATGCCAGGCACCGTCTCTGGCCGCAGAGCCACAAGGGC
22581 T A A GCTGACCATGCCAGGCATCGTCTCTGGCCGCAGAGCCACAAGGGC
22581 IS [GA] CTAACGTCACAACACCTGAGACTCCCAGCATAGGCCTTGTGGCTCTGCGGCCAGAACG[GA]TGCCTGGCATGGTCAGCAGCCCACGGCCCAGCCCGCCCGAGGATGTGGCAGGCAGGAGCC ctg15415 X
22594 I A CCACCCAGGCCTCTCCAGCCCAC
22594 P T A CGCGCCGAGGTCCCTGCTGCCAGY
22594 P G A ATGACGTGGCAGACGCCCTGCTGCCAY
22594 T T A CCTCCTGGCAGCAGGGATGGGCTGGAGAGGCCTGGGTGGAC
22594 T G A CCTCCTGGCAGCAGGGCTGGGCTGGAGAGGCCTGGGTGGAC
22594 IS [TC] GGCAGCAGCCCTGTGAGGTTGCTGGCCAGGGCCAGGTCCACCCAGGCCTCTCCAGCCCA[TC]CCCTGCTGCCAGGAGGCAGTGTAATCTGACCCAGCATGCTGGTGCATTTAGTCCCCTGTG ctg15415 X
22670 I S GGTGGGGGCACTGAGAAGGGGTGAGT
22670 P T S CGCGCGAGGAATTGGAACTTTGCTCCCY
22670 P C S ATGACGTGGCAGACGTTGGAACTTTYGCTCCCY
22670 T T S CAAAGGGAGCAAAGTTCCAATCTCACCCCTTCTCAGTGCCCCCACCCA
22670 T C S CAAAGGGAGCAAAGTTCCAACCTCACCCCTTCTCAGTGCCCCCACCCA
22670 IS [TC] GAAGTTATTACATATTAGGAGAAAAAGTCTAGAAATGGGCAAGGGAGCAAAAGTTCCAA[TC]CTCACCCCTTCTCAGTGCCCCCACCCAGAATGGACAGACCTTGAGATCTCAGG ctg15415 X
22673 I S GCTCAGACTGGCTTCAGTGCCCCCCT
22673 P C S ATGACGTGGCAGACGAAATCAGCTGCAATCAY
22673 P T S CGCGCCGAGGAAGAATCAGCTGCAATCAY
22673 T C S TCTCTGATTGCAGCTGATTCTCGGGGGGCACTGAAGCCAGTCTGAGCCA
22673 T T S TCTCTGATTGCAGCTGATTCTTGGGGGGCACTGAAGCCAGTCTGAGCCA
22673 IS [CT] TCAGATGCCCCGGAACACCCTTGGCAAAGGCACCAGAGCTCTCTGATTGCAGCTGATTCT[CT]GGGGGGCACTGAAGCCAGTCTGAGCCAGTCACAGCAGGCCCTTGAGGAGATGCTGAGTAT ctg15944 11
22761 I S GGACCCCGCCCTTCCCAGCT
22761 P G S ATGACGTGGCAGACCGCCTCCTCGCCY
22761 P T S CGCGCCGAGGAGCCTCCTCGCCY
22761 T G S TGGGGGCCAGGAGGCGGCTGGGAAGGGCGCGGGGTCCTG
22761 T T S TGGGGGCCAGGAGGCTGCTGGGAAGGGCGCGGGGTCCTG
22761 IS [GT] CCGTAGTTTTGCCCCTGGGTGAGTGTCCTGGGAGGGGCTGGTGCTGGGGGCGAGGAGGC[GT]GCTGGGAAGGGCGGGGGTCCTGTCCCGGGACCCGTGGGAGAGAAAAGGGGGACACCCGCA
22792 I A GAGTGGAACAGATGATTTCAATGGTCTCAGCCAATTGTAAAATACTACAT
22792 P G A ATGACGTGGCAGACGAAAGTTCTTCATTTACCTCTACTY
22792 P C A CGCGCCGAGGCAAAGTTCTTCATTTACCTCTACY
22792 T G A GGCCAGTAGAGGTAAATGAAGAACTTTCTGTAGTATTTTACAATTGGCTGAGACCATTGAAATCATCTGTTCCACTCTT
22792 T C A GGCCAGTAGAGGTAAATGAAGAACTTTGTGTAGTATTTTACAATTGGCTGAGACCATTGAAATCATCTGTTCCACTCTT
22792 IS [CA] TATAAAATAAAGAGTGGAACAGATGATTTCAATGGTCTCAGCCAATTG[TAAAATACTACA[GC]AAAGTTCTTCATTTACCTCTACTGGCCTCCCAAGGAAATTCTTGTCTGTCATTTTATAAT
22965 I S ACCTCTGATCTATCACCCCCTCAAAAAAC
22965 P T S CGCGCCGAGGAYTTTTTTTCAAATCTATCATCTGATAAAY
22965 P A S ATGAGGTGGCAGACTTTTTTTTTCAAATCTATCATCTGATAAAY
22965 T T S ATCCTTTATCAGATGATAGATTTGAAAAAAAAATTTTTTTGAGGGGGGTGATAGGATCAGAGGTTT
22965 T A S ATCCTTTATCAGATGATAGATTTGAAAAAAAAATTTTTTTGAGGGGGGTGATAGGATCAGAGGTTT
22965 IS [TA] GCAAGAGATGAGGCCTAACCTAACCCTGATCCTTTATCAGATGATAGATTTGAAAAAAAA[TA]TTTTTTTTGAGGGGGGTGATAGGATCAGAGGTTTAATTTTTTTAATGTAAAATTCGAGAA A
23040 I A GGGTGCTGGAGGCAGCCGCCA
23040 P T A CGGGCCGAGGYCGGACCTGCCCAY
23040 P C A ATGACGTGGCAGACCCGGACCTGCCCY
23040 T T A GGTCTGGGCAGGTCCGAGCCGGCTGCCTCCAGCACCCTG
23040 T C A GGTCTGGGCAGGTCCGGGGCGGCTGCCTCCAGCACCCTG
23040 IS [TC] TTGCTGGAGCCTCCTCCAGCCACAGACTCTCCGGCGGACAGGGTGCTGGAGGCAGCCGCCT[TC]CGGACCTGCCCAGACCAAGGCAGACGCAGGGAGACCTGGGCTCCCCTCTGCCTGGGCCAT
23080 I S CCTGTTGCCAGCCTCCCTCAGCATT
23080 P T S CGCGCCGAGGATGTCCCCTCATTCCCY
23080 P G S ATGACGTGGCAGACCTGTCCCCTCATTCCCY
23080 T T S AGGTGGGAATGAGGGGACATATGCTGGAGGGAGGCTGGCAACAGGGG
23080 T G S AGGTGGGAATGAGGGGACAGATGCTGGAGGGAGGCTGGCAACAGGGG
23080 IS [TG] TCTAGGGGTCAATTTTTGGCTTTTGTAGGGAAGTAAACAGGAGGTGGGAATGAGGGGACA[TG]ATGCTGGAGGGAGGCTGGCAACAGGGCAAAGTTCCAGAGGGTCAGAGAAAGTAGAAGC AT
23118 I A GGTGTAACCGCCTTGCCCCCATATATTGTTA
23118 P T A CGCGCCGAGGTGTAATATGCAGCGGGY
23118 P C A ATGACGTGGCAGACCGTAATATGCAGCGGGY
23118 T T A CTACCCCGCTGCATATTACAAACAATATATGGGGGGCAAGGGGTTACACCC
23118 T C A CTACCCCGCTGCATATTACAAACAATATATGGGGGGCAAGGGGTTACACCC
23118 IS [TC] AGAATAATATGACTCTCAATATCGCAGGGGGTGTAACCGCCTTGCCCCCCATATATTGTT[TC]GTAATATGCAGCGGGGTAGAGGCTGATATTACTCCCAATATCCCAGAAGGTGCACACATA
23191 I A GGCAGGGACTGCGAGAGGGCTTCT
23191 P G A ATGACGTGGCAGACGAGGGCTCCTGGGY
23191 P A A CGCGCCGAGGAAGGGCTCCTGGGY
23191 T G A AAGGCCCAGGAGCCCTGAAGCCCCTCCCAGTCCCTGCCGA
23191 T A A AAGGCCCAGGAGCCCTTGAAGCCCCTCCCAGTCCCTGCCGA
23191 IS [GA] CCCCTTTGGGCTTGGAAGTCTGGAAAGCGCTGCCCCTCGGCAGGGACTGGGAGGGGCTTC[GA]AGGGCTCCTGGGCCTTGCCCAGTTCTCGCTTCTCAGTCTGGGTGGGGGCTGCTGCTGCGCT
23239 I A CGGCGGCCGGCACTCACCTCA
23239 P C A ATGACGTGGCAGACCCGGTCGATGAGCCY
23239 P T A CGCGCCGAGGTCGGTCGATGAGCCY
23239 T C A CTGCGGCTCATCGACCGGAGGTGAGTGCCGGCCGCCGCC
23239 T T A CTGCGGCTCATCGACCGGAGGTGAGTGCCGGCCGCCGCC
23239 IS [CT] GTAGGTGCTGGGCAATGCTGTGATGCTGACGAGGCAGCGGCGGCGGCCGGCACTCACCTC[CT]CGGTCGATGAGCCGCAGCGGGTACTTGATGTCCCGGCTCTCGAGGGTGATGGCTGGCGTG
23270 I A CCTGGCCAACATGGAGAAATCCTGTATCTCTACTAAAAATACAAAAATTAGCA
23270 P C A ATGACGTGGCAGACCGGTCATGGTGGCAY
23270 P T A CGCGCCGAGGTGGTCATGGTGGCAY
23270 T C A CATGTGCCACCATGACCGGCTAATTTTTGTATTTTTAGTAGAATACAGGATTTCTCCATGTTGGCCAGGCT
23270 T T A CATGTGCCACCATGACCAGCTAATTTTTGTATTTTTAGTAGAATACAGGATTTCTCCATGTTGGCCAGGCT
23270 IS [CT] GAGACCAGCCTGGCCAACATGGAGAAATCCTGTATCTCTACTAAAAATACAAAAATTAGC[CT]GGTCATGGTGGCACATGCCTGTAGTCCCAGCTACTCTGGAGGCTGAGGCAGGGAATCAC

FIGURE 129F



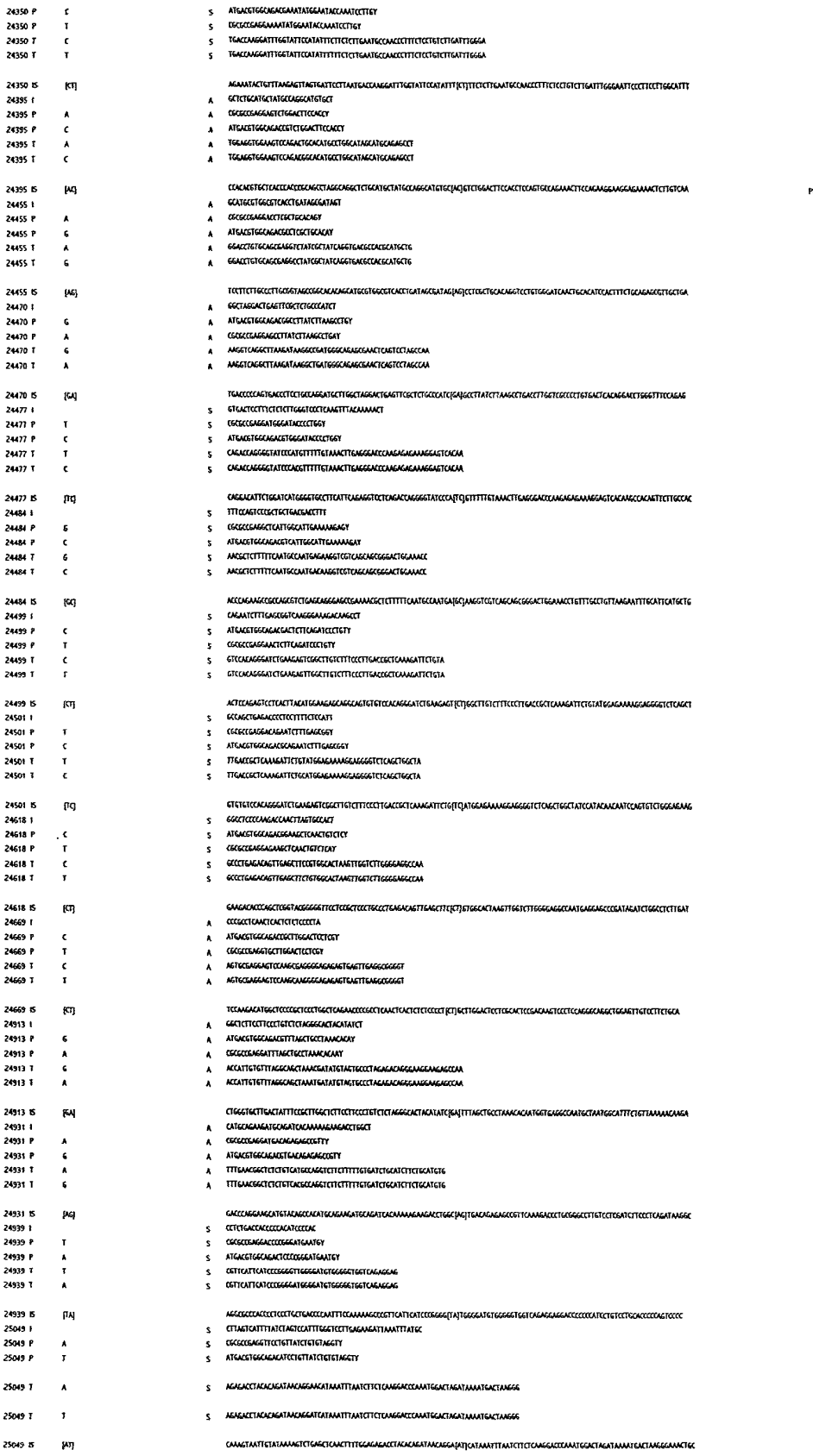
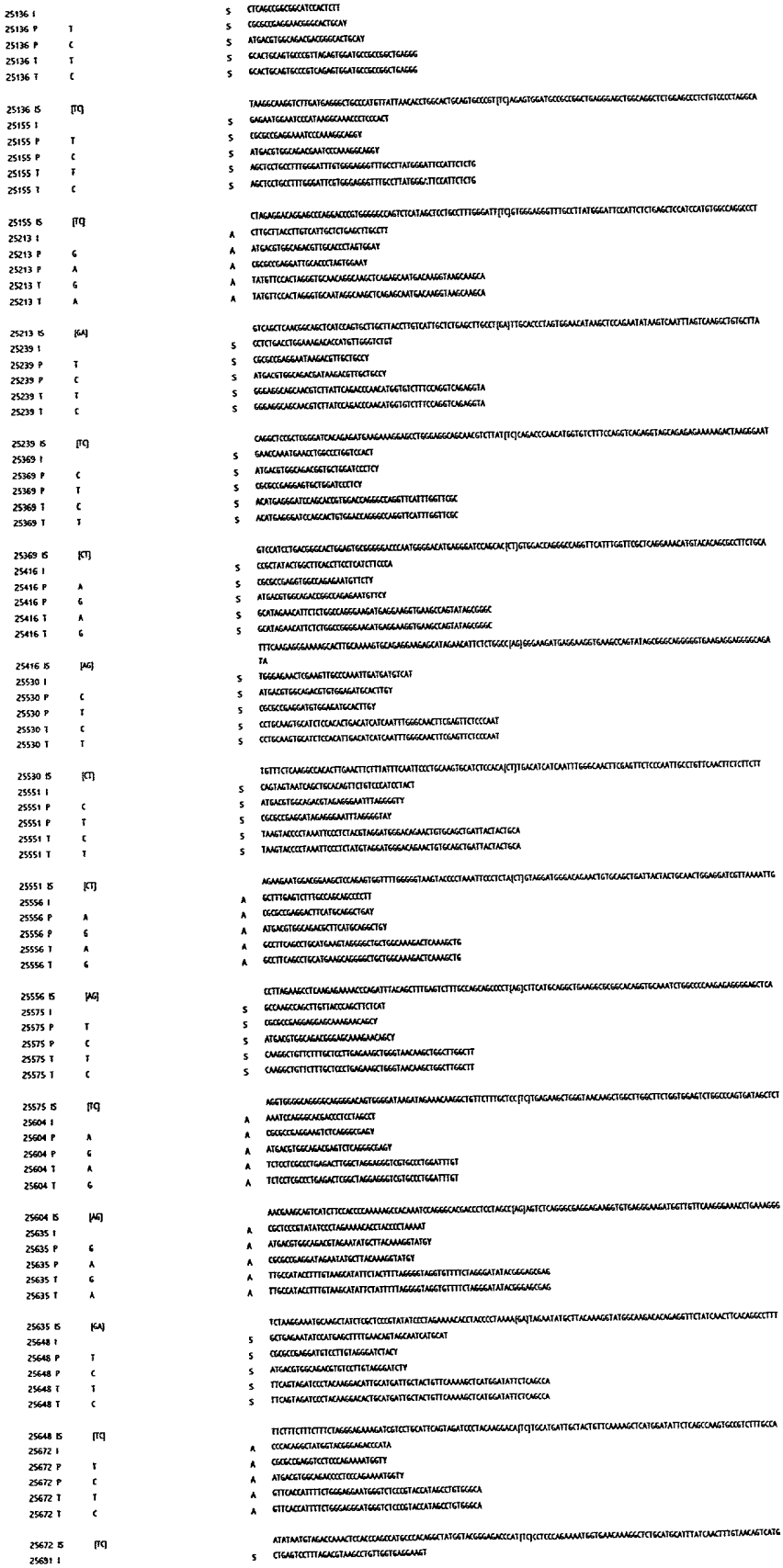
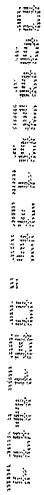


FIGURE 129F





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25691 P   C                S  ATGACGTGGCAGACGCTGTTGCAGTGGCY
25691 T   T                S  TCTCAGCCACTGCAACAGTCTCCTCACCAACAGGCTTACGTCTAAAGGACTCAGTG
25691 T   C                S  TCTCAGCCACTGCAACAGCCTCCTCACCAACAGGCTTACGTCTAAAGGACTCAGTG

25691 IS  [TC]                CTTATTAGGAAAAGACTAGTTGAAAATCTTTCGCCCAGCACATCTCAGCCACTGCAACAG[TC]CTTCCTCACCAACAGGCTTACGTCTAAAGGACTCAGTGTGTGAGAATGAAAACCAGGTGG
25696 I   C                S  CTCCGGCAGGCAAAAGCATTAACTATTGATGAGACTGAC
25696 P   A                S  CGCGCCGAGGTGACACACTATCATTCCTAGAY
25696 P   T                S  ATGACGTGGCAGACAGACACACTATCATTCCTAGAY
25696 T   A                S  CTGGTCTAGGAATGATAGTGTGTCATCAGTCTCATCAATAGTTAATGCTTTTGCCTCCCCGGAGTC
25696 T   T                S  CTGGTCTAGGAATGATAGTGTGTCTTCAGTCTCATCAATAGTTAATGCTTTTGCCTCCCCGGAGTC

25696 IS  [AT]                AGAGCAGGATAAATCCTCTCTGTCTTGCACCATTTCTGGTCTAGCAATGATAGTGTGTC[AT]TCAGTCTCATCAATAGTTAATGCTTTTGCCTCCCGGAGTCACCCCAGGATAAGACGCTGC
25710 I                    S  CATGATTGTGACAGCAGCTACCATTTATAGACTACCTAATAAGTGCCT
25710 P   T                S  CGCGCCGAGGAAGCATTGAACATATATTGCTAACY
25710 P   C                S  ATGACGTGGCAGACGAGCATTGAACATATATTGCTAAY

25710 T   T                S  TTAAGTTAGCAATATATGTTCAATGCTTGGCACTTATTAGGTAGTCTATAAATGGTAGCTGCTGTCACAATCATGAA

25710 T   C                S  TTAAGTTAGCAATATATGTTCAATGCTCGGCACTTATTAGGTAGTCTATAAATGGTAGCTGCTGTCACAATCATGAA

25710 IS  [TC]                AGCAGGGATATTGATGTCTACCATGGTAAAAAATTAAGTTAGCAATATATGTTCAATGCT[TC]GGCACTTATTAGGTAGTCTATAAATGGTAGCTGCTGTCACAATCATGAATGTATATAGTG
25739 I                    A  TCGTCACAGCTACGCCCTGGGCATAAACT
25739 P   G                A  ATGACGTGGCAGACGGTTGGGGCGTCAY
25739 P   A                A  CGCGCCGAGGAGTTGGGGCGTCAAY
25739 T   G                A  CCCTTTGACGCCCCAACGTTTATGCCCAGGGCGTAGCTGTGACGAGA
25739 T   A                A  CCCTTTGACGCCCCAACTGTTTATGCCCAGGGCGTAGCTGTGACGAGA

25739 IS  [GA]                TTTCGTCAGGCCATAACAACAAACTCCTTTTCTCGTCACAGCTACGCCCTGGGCATAAAC[GA]GTTGGGGCGTCAAGGGAGGGCAGGGCAAGGGAGCGGGCGGGAAGCAGCAGGTCACGTGGTCG
25805 I                    A  GAGTTTCACTGGGCTGTTCCTCCTAGGAGTTCTAATGTAAAATT
25805 P   A                A  CGCGCCGAGGATGATGCCCACTGAAAGY
25805 P   G                A  ATGACGTGGCAGACGTGATGCCCACTGAAAGY
25805 T   A                A  ATTACTTTCAGTGGGCATCATATTTTACATTAGAACTCCTAGGAGGAACAGCCCAGTGAAACTCAC
25805 T   G                A  ATTACTTTCAGTGGGCATCACATTTTACATTAGAACTCCTAGGAGGAACAGCCCAGTGAAACTCAC

25805 IS  [AG]                TCCATGAACTCCACAGTGAGTTTCACTGGGCTGTTCCTCCTAGGAGTTCTAATGTAAAATTAGTTGATGCCCACTGAAAGTAATTTAGAACAAAGTCTTAACCAGTGGAGAACCAAAATAGTGT
25831 I                    S  GCCTACAGAGATCTCAGTTGCTGCTGAGATTAGGTTATAAAAGACAA
25831 P   G                S  ATGACGTGGCAGACCCATGGCTTCCTCTGTY
25831 P   A                S  CGCGCCGAGGTCATGGCTTCCTCTGTY
25831 T   G                S  GAACACAGAGCAAGCCATGGTGTCTTTTATAACCTAATCTCAGCAGCAACTGAGATCTCTGTAGGCCA
25831 T   A                S  GAACACAGAGGAAGCCATGATGTCTTTTATAACCTAATCTCAGCAGCAACTGAGATCTCTGTAGGCCA

25831 IS  [GA]                ATGGTGACTGGTTCTCCCCAGAGCCATTGACCCCACCGAGAGAACACAGAGCAAGCCATG[GA]TGTCTTTTATAACCTAATCTCAGCAGCAACTGAGATCTCTGTAGGCCACACACACCTCCC
25855 I                    S  TGGCCTGCTTCAAACTTGGCACCACAGTATCAATATAA
25855 P   A                S  CGCGCCGAGGTAGTTCTGATATTTTGGTTAAAGGY
25855 P   G                S  ATGACGTGGCAGACCAGTTCTGATATTTTGGTTAAAGGY
25855 T   A                S  AAACCTTTAACCAAAATATCAGAACTATATATTGATACTGTGGTGCCAAGTTTGAAGCAGGCCAGA
25855 T   G                S  AAAACCTTAACCAAAATATCAGAACTGTATATTGATACTGTGGTGCCAAGTTTGAAGCAGGCCAGA

25855 IS  [AG]                AAAAATGAAAATGCTTTAGCGTTAGAAACAAAAAAACCTTAACCAAAATATCAGAACT[AG]TATATTGATACTGTGGTGCCAAGTTTGAAGCAGGCCAGACACCACCACTTTATAGTACG
25859 I                    S  GGGTTGTGGGGCCCCCGCAGAA
25859 P   G                S  ATGACGTGGCAGACCGGGTTCTAGTGGGCY
25859 P   A                S  CGCGCCGAGGTGGGTTCTAGTTGGGCY
25859 T   G                S  CACAGCCCAACTAGAACCCGTCTGCGGGGCCCCACAACCCCA
25859 T   A                S  CACAGCCCAACTAGAACCCATCTGCGGGGCCCCACAACCCCA

25859 IS  [GA]                CTGAGAAAGGTGGAGGATTTGACCCCTGTGGAGTTGGCCCCCACAGCCCAACTAGAACCC[GA]TCTGCGGGGGCCCACAACCCAAGAATGACCTGCCTTGGCTGCCTGTGCACACTTGATCC
25886 I                    A  ACATAGAATAACAAACTTGCTACCCTCCAGGTTTGACT
25886 P   A                A  CGCGCCGAGGATCATTAAAACTGTTGCCTAATCY
25886 P   G                A  ATGACGTGGCAGACGTCATTAAAACTGTTGCCTAATY
25886 T   A                A  AGATGATTAGCCAACAGTTTTAATGATGTCAAACCTGGAGGGTAGCAAGTTTGTTATTCTATGTTG
25886 T   G                A  AGATGATTAGCCAACAGTTTTAATGAGGTCAAACCTGGAGGGTAGCAAGTTTGTTATTCTATGTTG

25886 IS  [AG]                TAATTTAAGATTTTAAAAATTCAACATAGAATAACAAACTTGCTACCCTCCAGGTTTGAC[AG]TCATTAAAACTGTTGGCTAATCATCTTTCCTATCCTCACCATTCCCACAGTATGCATCA
25913 I                    A  ACATGCCGCGTCCCTGCCCCT
25913 P   C                A  CGCGCCGAGGCACCCGGGTCTGGY
25913 P   G                A  ATGACGTGGCAGACGACCCGGGTCTGGY
25913 T   C                A  AGCACCAGACCCGGGTCGGGGCAGGGACGCGGCATGTGG
25913 T   G                A  AGCACCAGACCCGGGTGGGGGCAGGGACGCGGCATGTGG

25913 IS  [CG]                GAAGGGACAGCTGCTGGGACCCACCTCCCCCTCCCCGGCCACATGCCGCGCGTCCCTGCCCC[CG]ACCCGGGTCTGGTGCTGAGGATACAGCTCTTCTCAGTGTCTGAACAATCTCCAAAATTGA
25925 I                    A  CACCAGCATTTCCATTTCCATCCAGCCCA
25925 P   C                A  ATGACGTGGCAGACCGAAGAGCTTTACTGTCCY
25925 P   T                A  CGCGCCGAGGTGAAGAGCTTTACTGTCCY
25925 T   C                A  GGTGGGACAGTAAAGCTCTTCGGGGCCTGGATGGAAATGGAAATGCTGGTGCT
25925 T   T                A  GGTGGGACAGTAAAGCTCTTCAGGGCCTGGATGGAAATGGAAATGCTGGTGCT

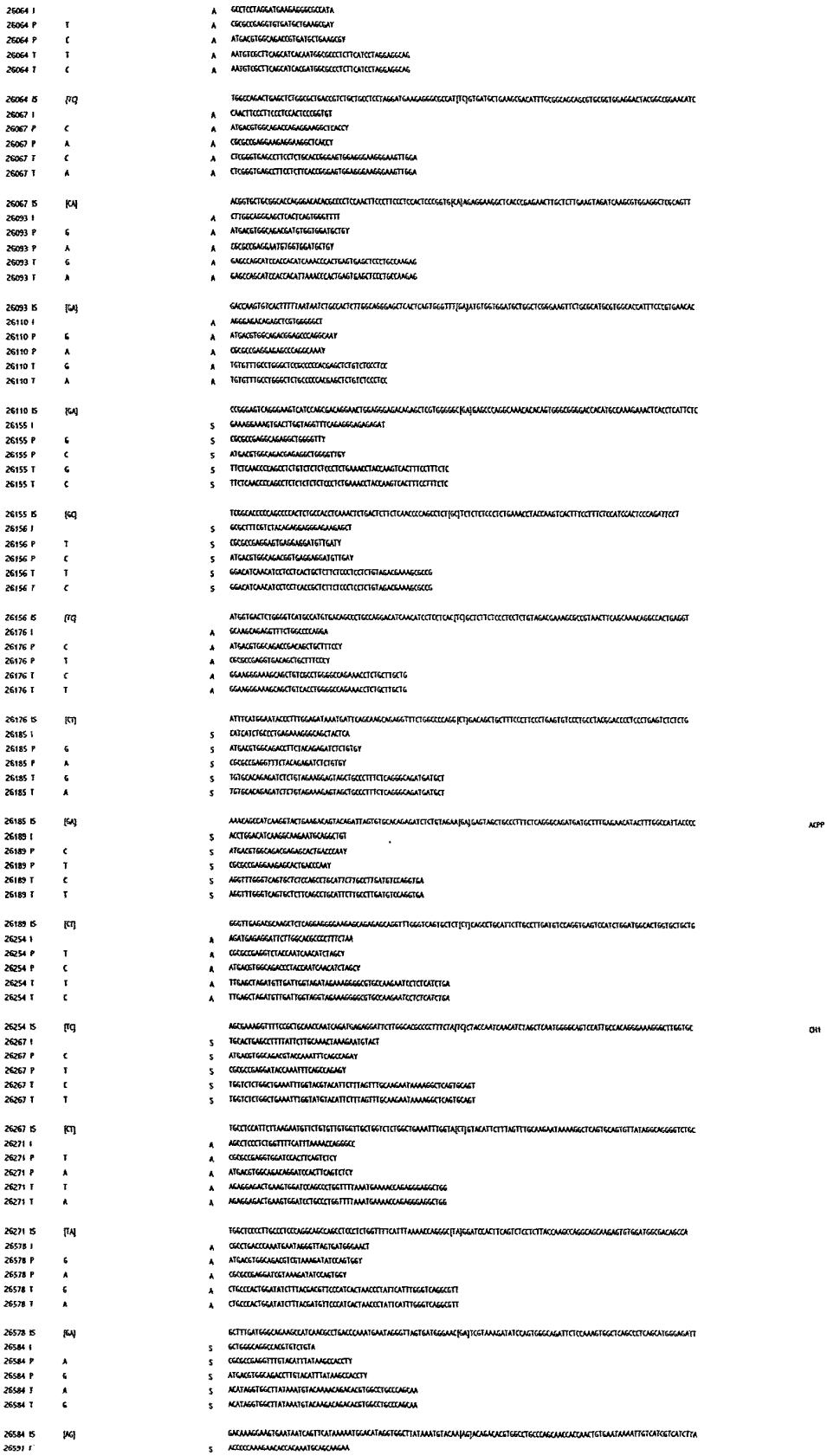
25925 IS  [CT]                TTGAATGCTCCCAAAGCTCACAACCGCGACAGCACCAGCATTTCCATTCCATCCAGGCCC[CT]GAAGAGCTTTACTGTCCCACCCTCTTCTCATGGGTTCCAGGGGCCACAATGGCCAGAC
25931 I                    S  CAAAAAGTAAGATACATTCTGCATAAATTAGCCATGGTTATGACAGC
25931 P   A                S  CGCGCCGAGGTCTTGGAAAGCCATCCAY
25931 P   T                S  ATGACGTGGCAGACACTTGGAAAGCCATCCAY
25931 T   A                S  AGTATGGATGGCTTTCCAAGACTGTCATAACCATGGCTAATTTATGCAGAATGTATCTTAACTTTTTGAA
25931 T   T                S  AGTATGGATGGCTTTCCAAGTCTGTCATAACCATGGCTAATTTATGCAGAATGTATCTTAACTTTTTGAA

25931 IS  [AT]                AATCTCATGTCCTTGCTATTGCTTTTTCGGAATGAATTGCAGTATGGATGGCTTTCCAAG[AT]CTGTCATAACCATGGCTAATTTATGCAGAATGTATCTTAACTTTTTGAAGTCATTAGGAT
25944 I                    A  GCCCTCCCCATCTCCTAGAAGCTGCCT
25944 P   A                A  CGCGCCGAGGAAGTTGGGGAGGCATY
25944 P   G                A  ATGACGTGGCAGACGAGTTGGGGAGGCATY
25944 T   A                A  GGACATGCCTCCCCAACTGGGCAGCTTCTAGGAGATGGGGAGGGCAA
25944 T   G                A  GGACATGCCTCCCCAACTCGGCAGCTTCTAGGAGATGGGGAGGGCAA

25944 IS  [AG]                CCAAAGTGCCCGGTGAGGCTGTGCTGAACTCCTTGCCCTCCCATCTCTAGAAGCTGCC[AG]AGTTGGGGAGGCATGTCCAGCGGTGCTCCCAGCAGCCCAGCAGAGGGGCAGGAGGCTGGC
25988 I                    S  ACCCACACATACACCCACATTTACACACAAACTGTCAA
25988 P   G                S  ATGACGTGGCAGACCATAAACACCTATACACACTTCY
25988 P   A                S  CGCGCCGAGGTATAAACACCTATACACACTTCY
25988 T   G                S  GTGTGGAAGTGTGTATAGGTGTTTATGTGACAGTTTGTGTGTAAATGTGGGTGTATGTGTGGGTGT
25988 T   A                S  GTGTGGAAGTGTGTATAGGTGTTTATATGACAGTTTGTGTGTAAATGTGGGTGTATGTGTGGGTGT

25988 IS  [GA]                GTATGTATGTGCACATCTGTGAGTATATGAATGTGTGTGGAAGTGTGTATAGGTGTTTAT[GA]TGACAGTTTGTGTGTAAATGTGGGTGTATGTGTGGGTGTGTTTATGCATGTACATCTGT
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FIGURE 129F



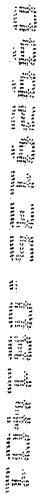
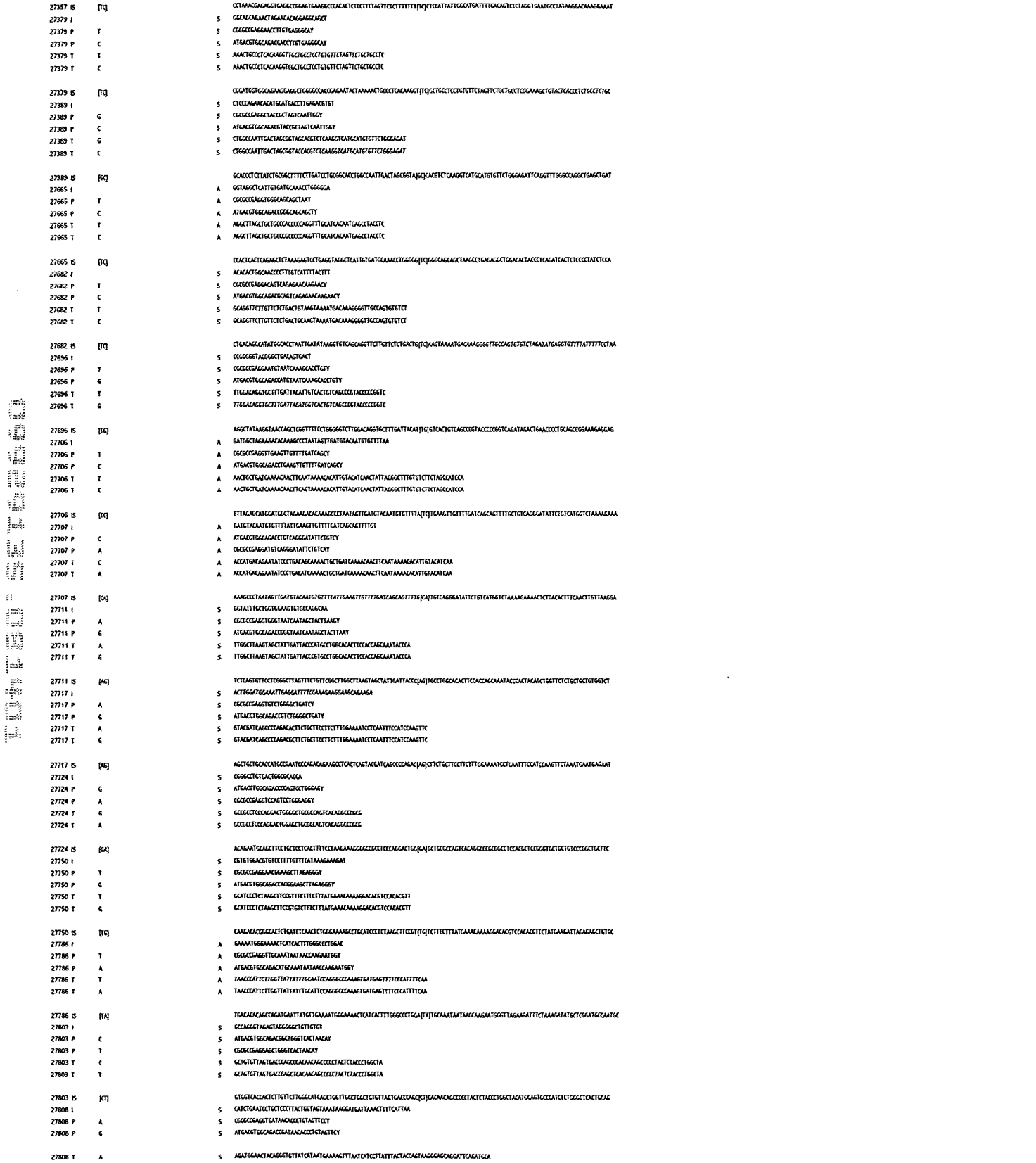


FIGURE 129F



SUBSTITUTE SHEET (RULE 26)





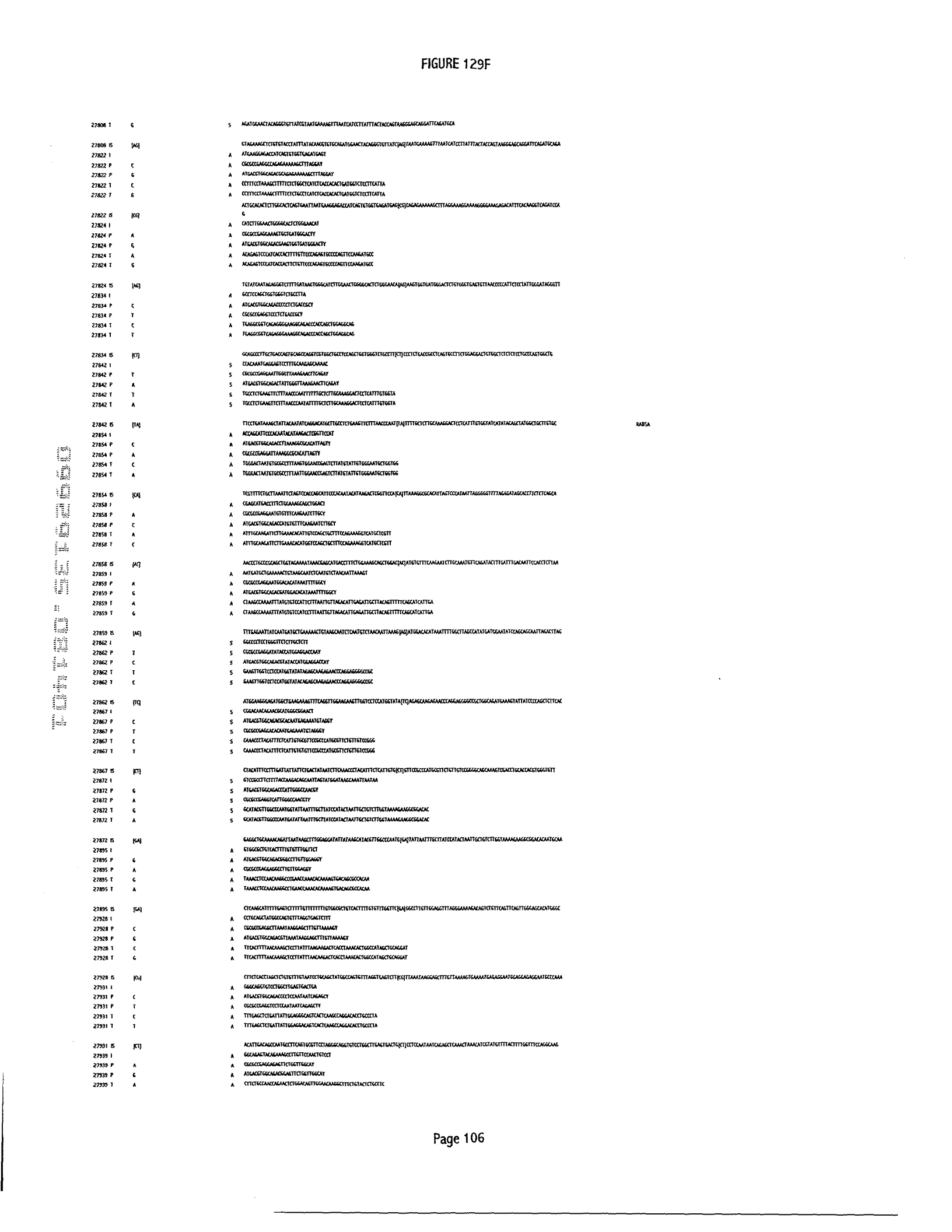




FIGURE 129F

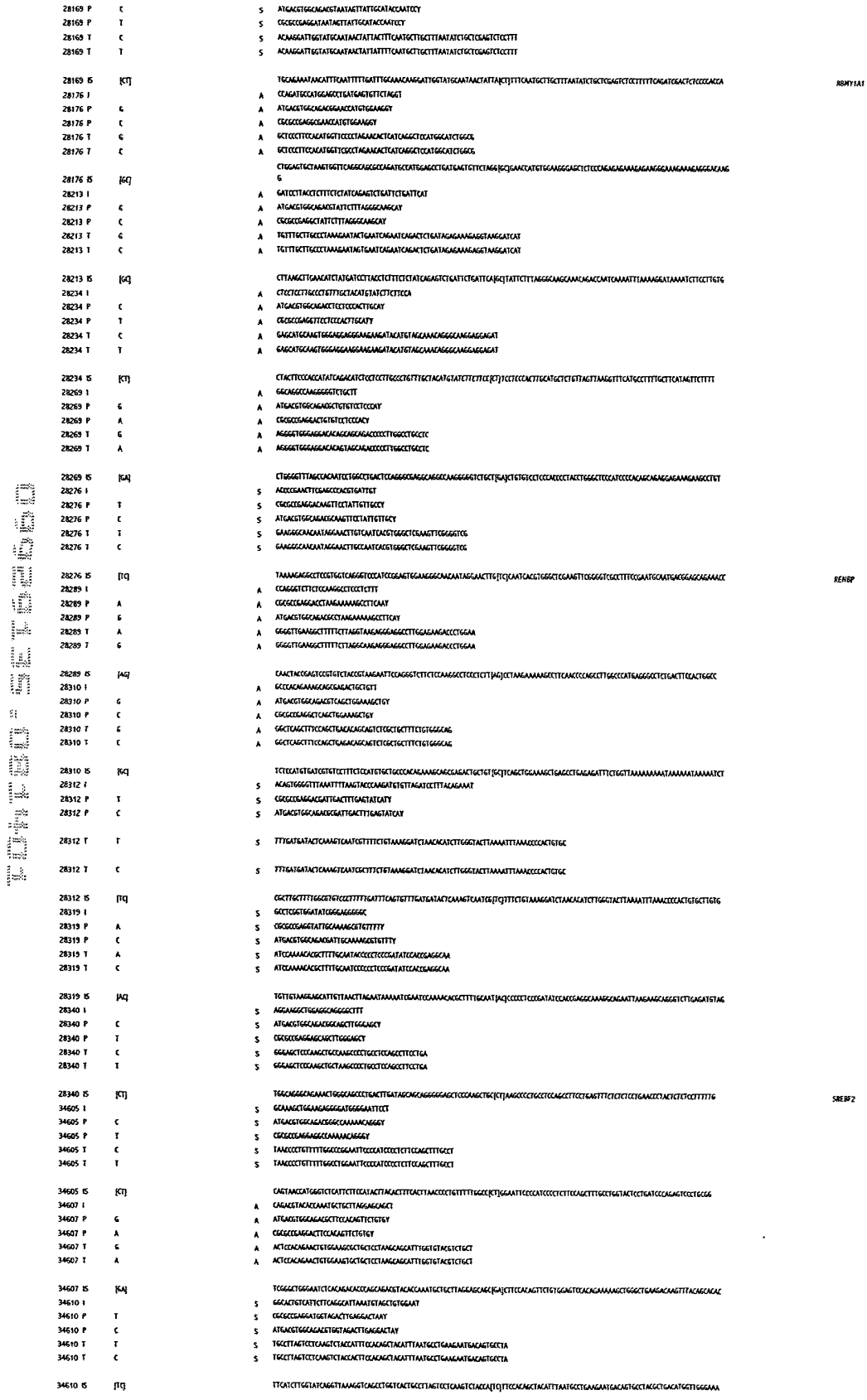

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28169 P T S CGCGCCGAGGATAATAGTTATTGCATACCAATCCY
28169 T C S ACAAGGATTGGTATGCAATAACTATTACTTTCAATGCTTGCTTTAATATCTGCTCGAGTCTCCTTT
28169 T T S ACAAGGATTGGTATGCAATAACTATTATTTTCAATGCTTGCTTTAATATCTGCTCGAGTCTCCTTT
28169 IS [CT] TGCAGAAATAACATTTCAATTTTTGATTTGCAAACAAGGATTGGTATGCAATAACTATTA[CT]TTTCAATGCTTGCTTTAATATCTGCTCGAGTCTCCTTTTTCAGATCGACTCTCCCCCACCA RBM15A1
28176 I A CCAGATGCCATGGAGCCTGATGAGTGTTCTAGGT
28176 P G A ATGACGTGGCAGACGGAACCATGTGGAAGGY
28176 P C A CGCGCCGAGGCGAACCATGTGGAAGGY
28176 T G A GCTCCCTTCCACATGGTTCCCCTAGAACACTCATCAGGCTCCATGGCATCTGGCG
28176 T C A GCTCCCTTCCACATGGTTCGCCTAGAACACTCATCAGGCTCCATGGCATCTGGCG
28176 IS [GC] CTGGAGTGCTAAGTGGTTCAGGCAGGCGCAGATGCCATGGAGCCTGATGAGTGTTCTAGG[GC]GAACCATGTGCAAGGGAGCTCTCCCAGAGAGAAAGAGAGGGAAGAAAGAGGCACAG G
28213 I A GATCCTTACCTCTTTCTCTATCAGAGTCTGATTCTGATTCAT
28213 P G A ATGACGTGGCAGACGTATTCTTTAGGGCAAGCAY
28213 P C A CGCGCCGAGGCTATTCTTTAGGGCAAGCAY
28213 T G A TGTTTGCTTGCCCTAAAGAATACTGAATCAGAATCAGACTCTGATAGAGAAAGAGGTAAGGATCAT
28213 T C A TGTTTGCTTGCCCTAAAGAATAGTGAATCAGAATCAGACTCTGATAGAGAAAGAGGTAAGGATCAT
28213 IS [GC] CTTAAGCTTGAACATCTATGATCCTTACCTCTTTCTCTATCAGAGTCTGATTCTGATTCA[GC]TATTCTTTAGGGCAAGCAAACAGACCAATCAAAATTTAAAAGGATAAAATCTTCCTTGTG
28234 I A CTCCTCCTTGCCCTGTTGCTACATGTATCTTCTTCCA
28234 P C A ATGACGTGGCAGACCTCCTCCCACTTGCAY
28234 P T A CGCGCCGAGGTTCCTCCCACTTGCATY
28234 T C A GAGCATGCAAGTGGGAGGAGGGAAGAAGATACATGTAGCAAACAGGGCAAGGAGGAGAT
28234 T T A GAGCATGCAAGTGGGAGGAAGGAAGAAGATACATGTAGCAAACAGGGCAAGGAGGAGAT
28234 IS [CT] CTACTTCCCACCATATCAGACATCTCGCTCCTTGCCCTGTTTGCTACATGTATCTTCTTCC[CT]TCCTCCCACTTGCATGCTCTGTTAGTTAAGGTTTCATGCCTTTTGCTTCATAGTTCTTTT
28269 I A GGCAGGCCAAGGGGGTCTGCTT
28269 P G A ATGACGTGGCAGAGCTGTGTCTCCCAY
28269 P A A CGCGCCGAGAACTGTGTCCTCCCACY
28269 T G A AGGGCTGGGAGGACACAGGAGGAGACCCCCTTGGCCTGCCTC
28269 T A A AGGGCTGGGAGGACACAGTAGCAGACCCCCTTGGCCTGCCTC
28269 IS [GA] CTGGGGTTTAGCCACAATCCTGGCCTGACTCCAGGGCCAGGCAGGCCAAGGGGGTCTGCT[GA]CTGTCCTCCCAACCCCTACCTGGGCTCCCATCCCCACAGCAGAGGAGAAAGAAGCCTGT
28276 I S ACCCCGAACTTCGAGCCCACGTGATTGT
28276 P T S CGCGCCGAGGACAAGTTCCTATTGTTGCCY
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28289 P A A CGCGCCGAGGACCTAAGAAAAAGCCTTCAAY
28289 P G A ATGACGTGCCAGAGCCCTAAGAAAAAGCCTTCAY
28289 T A A GGGGTTGAAGGCTTTTTCTTAGGTAAGAGGGAGGCCTTGGAGAAGACCCTGGAA
28289 T G A GGGGTTGAAGGCTTTTTCTTAGGCAAGAGGGAGGCCTTGGAGAAGACCCTGGAA
28289 IS [AG] CAACTACCGAGTCCGTGTCTACCGTAAGAATTCCAGGGTCTTCTCCAAGGCCTCCCTCTT[AG]CCTAAGAAAAAGCCTTCAACCCCAGCCTTGGCCCATGAGGGCCTCTGACTTCCACTGGCC
28310 I A GCCCACAGAAAGCAGCGAGACTGCTGTT
28310 P G A ATGACGTGGCAGACGTCAGCTGGAAAGCTGY
28310 P C A CGCGCCGAGGCTCAGCTGGAAAGCTGY
28310 T G A GGCTCAGCTTYCCAGCTGACACAGCAGTCTCGCTGCTTTCTGTGGGCAG
28310 T C A GGCTCAGCTTYCCAGCTGAGACAGCAGTCTCGCTGCTTTCTGTGGGCAG
28310 IS [GC] TCTCCATGTGATCGTGTCTTTCTCCATGTGCTGCCCACAGAAAGCAGCGAGACTGCTGT[GC]TCAGCTGGAAAGCTGAGCCTGAGAGATTTCTGGTTAAAAAAAAATAAAAAATAAAAATCT
28312 I S ACAGTGGGGTTTAAATTTTAAGTACCCAAGATGTGTTAGATCCTTTACAGAAAT
28312 P T S CGCGCCGAGGACGATTGACTTTGAGTATCATY
28312 P C S ATGACGTGGCAGACGCGATTGACTTTGAGTATCAY
28312 T T S TTTGATGATACTCAAGTCAATCGTTTTCTGTAAAGGATCTAACACATCTTGGGTACTTAAAATTTAAACCCCACTGTGC
28312 T C S TTTGATGATACTCAAGTCAATCGCTTTCTGTAAAGGATCTAACACATCTTGGGTACTTAAAATTTAAACCCCACTGTGC
28312 IS [TC] CGCTTGCTTTTGGCCTGTCCCTTTTTGATTTCAGTGTTTGATGATACTCAAGTCAATCG[TC]TTTCTGTAAAGGATCTAACACATCTTGGGTACTTAAAATTTAAACCCCACTGTGCTTGTG
28319 I S GCCTCGGTGGATATCGGGAGGGGGC
28319 P A S CGCGCCGAGGTATTGCAAAAGCGTGTTTTY
28319 P C S ATGACGTGGCAGACGATTGCAAAAGCGTGTTTY
28319 T A S ATCCAAAACACGCTTTTGCAATACCCCCTCCCGATATCCACCGAGGCAA
28319 T C S ATCCAAAACACGCTTTTGCAATCCCCCCTCCCGATATCCACCGAGGCAA
28319 IS [AC] TGTTGTAAGGAGCATTGTTAACTTAGAATAAAAATCGAATCCAAAACACGCTTTTGCAAT[AC]CCCCCTCCCGATATCCACCGAGGCAAAGGCAGAATTAAGAAGCAGGGTCTGAGATGTAG
28340 I S AGCAAGGCTGGAGGCAGGGGCTTT
28340 P C S ATGACGTGGCAGACGGCAGCTTGGCAGCY
28340 P T S CGCGCCGAGGAGCAGCTTGGGCAGCY
28340 T C S GGCAGCTCCCAAGCTGCCAAGCCCCTGCCTCCAGCCTTCCTGA
28340 T T S GGCAGCTCCCAAGCTGCTAAGCCCCTGCCTCCAGCCTTCCTGA
28340 IS [CT] TGGCAGGGCAGAAACTGGGCAGCCCTGACTTGATAGCAGCAGGGGGAGCTCCCAAGCTGC[CT]AAGCCCCTGCCTCCAGCCTTCCTGAGTTTCTCTCTCCTGAAACCTAACTCTCTCCTTTTG SREBF2
34605 I S GCAAAGCTGGAAGAGGGCATGGGGAATTCCT
34605 P C S ATGACGTGGCAGACGGGCCAAAAACAGGGY
34605 P T S CGCGCCGAGGAGGCCAAAAACAGGGY
34605 T C S TAACCCCTGTTTTTGGCCCGGAATTCCCCATCCCCTCTTCCAGCTTTGCCT
34605 T T S TAACCCCTGTTTTTGGCCTGGAATTCCCCATCCCCTCTTCCAGCTTTGCCT
34605 IS [CT] CAGTAACCATGGGTCTCATTCTTCCATACTTACACTTTCACTTAACCCCTGTTTTTGGCC[CT]GGAATTCCCCATCCCCTCTTCCAGCTTTGCCTGGTACTCCTGATCCCAGAGTCCCTGCGG
34607 I A CAGACGTACACCAAATGCTGCTTAGGAGCAGCT
34607 P G A ATGACGTGGCAGACGCTTCCACAGTTCTGTGY
34607 P A A CGCGCCGAGGACTTCCACAGTTCTGTGY
34607 T G A ACTCCACAGAACTGTGGAAGCGCTGCTCCTAAGCAGCATTTGGTGTACSTCTGCT
34607 T A A ACTCCACAGAACTGTGGAAGTGCTGCTCCTAAGCAGCATTTGGTGTACGTCTGCT
34607 IS [GA] TCGGGCTGGGAATCTCACAGACACCCAGCAGACGCTACACCAAATGCTGCTTAGGAGCAGC[GA]CTTCCACAGTTCTGTGGAGTCCACAGAAAAAGCTGGGCTGAAGACAAGTTTACAGCACAC
34610 I S GGCACTGTCATTCTTCAGGCATTAAATGTAGCTGTGGAAT
34610 P T S CGCGCCGAGGATGCTACACTTGAGGACTAAY
34610 P C S ATGACGTGGCAGACGTGGTAGACTTGAGGACTAY
34610 T T S TGCCTTAGTCCTCAAGTCTACCATTTCCACAGCTACATTTAATGCCTGAAGAATGACAGTGCCTA
34610 T C S TGCCTTAGTCCTCAAGTCTACCACTTCCACAGCTACATTTAATGCCTGAAGAATGACAGTGCCTA
34610 IS [TC] TTCATCTTGGTATCAGGTTAAAGGTCAGCCTGGTCACTGCCTTAGTCCTCAAGTC[TC]TTCCACAGCTACATTTAATGCCTGAAGAATGACAGTGCCTACGCTGACATGGTTGGGAAA

FIGURE 129F

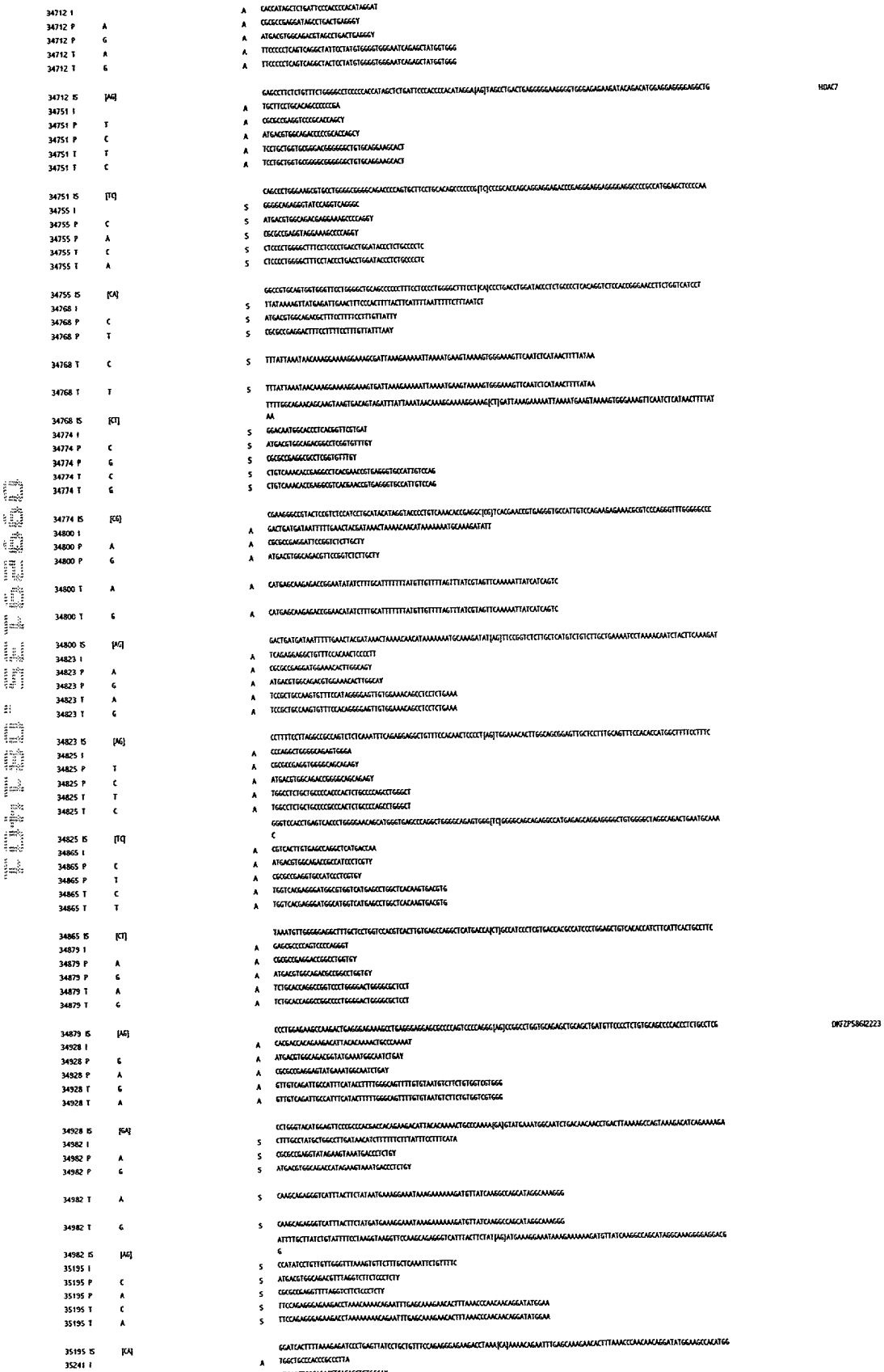


FIGURE 129F

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35243 P   Y   A   CGCGCCEAAGTTCACAGCTGTGGCAY
35241 T   C   A   CTCTTGCCACAGCTGTGAGAAGGCCGGGTGGGCAGCCACC
35241 T   T   A   CTCTTGCCACAGCTGTGAAAAGGCCGGGTGGGCAGCCACC

35241 IS  (CT)      CAGAGGGGGCTCCTTCAGACCTGGCTGAGCCAGGCCTGTGGTGGCTGCCCACCCCGCCCTTC[CT]TCACAGCTGTGGCAAGAGCGGGAGCTGCTGCTTGTTGCCGGCTACTGGCAGTGTCCTGGA
35246 I         A   CGAGTCCACAGCTGCACGGAGCCAA
35246 P   C     A   ATGACGTGGCAGACCGGTCCAAAACGAATTY
35246 P   T     A   CGCGCCGAAGTGGGGTCCAAAACGAATTCY
35246 T   C     A   TGGAGAATTCGTTTTGGACCGTGGCTCCGTGCAGCTGTGGACTCGAG
35246 T   T     A   TGGAGAATTCGTTTTGGACCCATGGCTCCGTGCAGCTGTGGACTCGAG

35246 IS  (CT)      GGCCTCCCCCAAGACTCACACTAGTGGATGGCACTCGAGTCCACAGCTGCACGCGAGCCA[CT]GGGTCCAAAACGAATTCTCCACTGAGATGGGTCCACAGAGCCTGGTGGCCACAATGGCTG
35251 I         S   CGACCTGGTCAACTCCATCACGCCCA
35251 P   G     S   ATGACGTGGCAGACCTGGGGAGCCAGCY
35251 P   A     S   CGCGCCGAGGTTGGGGAGCCAGCY
35251 T   G     S   CTAAGCTGGCTCCCCAGGGGCGTGATGGAGTTGACCAGGGTCGTC
35251 T   A     S   CTAAGCTGGCTCCCCAAGGGCGTGATGGAGTTGACCAGGGTCGTC

35251 IS  (GA)      CGTCAGTCTGGGGGCACTGCCCGCCACGTGAGCGGGTGCTGGTCACTAAGCTGGCTCCCCA[GA]GGGCGTGATGGAGTTGACCAGGGTCGTCAGGTTGATGAAATGGGCCACACACTGTGGGTT
35254 I         S   AGAAAAGGAAGCATCTGTTTTCCGTCTTTTCGTGCTTACTTTTTTCC
35254 P   T     S   CGCGCCGAGGAATTTTTTTCTAGCCAGTGAAATY
35254 P   A     S   ATGACGTGGCAGACTATTTTTTCTAGCCAGTGAAATTAY

35254 T   T     S   AAATTAATTTCACTGGCTAGAAAAAAATTGAAAAAAGTAAGCACGAAAAAGACGGAAAACAGATGCTTCCTTTTCTAT

35254 T   A     S   AAATTAATTTCACTGGCTAGAAAAAATAGAAAAAAGTAAGCACGAAAAAGACGGAAAACAGATGCTTCCTTTTCTAT

35254 IS  [TA]      ATCATGAAGGCAATGAGAAGGAACTAAGAAACAAATTAATTTCACTGGCTAGAAAAAAAT[TA]GAAAAAAGTAAGCACGAAAAAGACGGAAAACAGATGCTTCCTTTTCTATCCATTCCTCT
                    G
35257 I         A   GCAGCCTAGACCTCCCAGGCCTGTGT
35257 P   A     A   CGCGCCGAGGACCCTCCACACCAGY
35257 P   G     A   ATGACGTGGCAGACGCCCTCCACACCAGY
35257 T   A     A   AGGGCTGGTGTGGAGGGCTCACAGGCCTGGGAGGTCTAGGCTGCGG
35257 T   G     A   AGGGCTGGTGTGGAGGGCCACAGGCCTGGGAGGTCTAGGCTGCGG

35257 IS  [AG]      GGTGCTGCGGCTACACACACCACCCTCGCGGCCCCGCAGCCTAGACCTCCCAGGCCTGTG[AG]CCCTCCACACCAGCCTCAGAACCCTCCTGGGCTTGCCCCCCTTGGGTCCGTCACCCT
35304 I         A   CCTGTGCCAGGAGGCAGGAAGCTTCT
35304 P   G     A   ATGACGTGGCAGACGAGCAGCTGGATACTTTGY
35304 P   A     A   CGCGCCGAGGAAGCAGCTGGATACTTTGY
35304 T   G     A   GGGCCAAAGTATCCAGCTGCTCGAAGCTTCCTGCCTCCTGGCACAGGCC
35304 T   A     A   GGGCCAAAGTATCCAGCTGCTTGAAGCTTCCTGCCTCCTGGCACAGGCC

35304 IS  [GA]      AACCGTGCCCAGCCTCTCAAACAAGGCCCCCAGGCCTGTGCCAGCAGGCAGGAAGCTTC[GA]AGCAGCTGGATACTTTGGCCCTCAGAGATGGGAGGTGGGGACAGGGCCCTGACAAGGCC
35310 I         S   TGTGGGCCTGCCACCTAGACACCCT
35310 P   T     S   CGCGCCGAGGACTCACTCTGCAGCCY
35310 P   C     S   ATGACGTGGCAGACGCTCACTCTGCAGCY
35310 T   T     S   AGGCGGCTGCAGAGTGAGTGGGTCTCTAGGTGGCAGGCCCACACC
35310 T   C     S   AGGGGGCTGCAGAGTGAGCGGTCTCTAGGTGGCAGGCCCACACC

35310 IS  [TC]      GGGTGCCCCTTGCAGCCTGGCATGGTAACTGTGCTGGGGATCAGGGGGCTGCAGAGTGAG[TC]GGGTCTCTAGGTGGCAGGCCCACACCTCAGGCCACCAACAGGTGACATGAGGCCTTGGAA
35319 I         A   ACCAGAACCTGGGTCCAAGCTGCACAT
35319 P   A     A   CGCGCCGAGGAGTCTCATGATGTGGATGY
35319 P   G     A   ATGACGTGGCAGACGGTCTCATGATGTGGATGY
35319 T   A     A   CCAGCATCCACATCATGAGACTTGTGCAGCTTGGACCCAGGTTCTGGTTA
35319 T   G     A   CCAGCATCCACATCATGAGACCTGTGCAGCTTGGACCCAGGTTCTGGTTA

35319 IS  [AG]      CTCACCCGAGGCCTCAGCGCTGGCCAAGAGGCATAACCAGAACCTGGGTCCAAGCTGCACA[AG]GTCTCATGATGTGGATGCTGGCCTGCATCACCCAGATTACCCCTTCGGCACGAGGCCCTC
35377 I         A   CCCTGTATCCCTTCCATTCCTGCTGTTCCACA
35377 P   T     A   CGCGCCGAGGTTGAGACCAGCCAACTAY
35377 P   C     A   ATGACGTGGCAGACCTGAGACCAGCCAACTY
35377 T   T     A   GAAGTAGTTGGCTGGTCTCAAGTGGAACAGCAGGAATGGAAGGGATACAGGGTG
35377 T   C     A   GAAGTAGTTGGCTGGTCTCAGGTGGAACAGCAGGAATGGAAGGGATACAGGGTG

35377 IS  [TC]      ATTCTTTCCTTCAGAGCCCCCTCCACACACCCTGTATCCCTTCCATTCCTGCTGTTCCAC[TC]TGAGACCAGCCAACTACTTCACAGAAGTAATATCCTCTCCTAAAAGACTCCCCGCCAGCC
35396 I         S   GTGCAGGTCGCCCAGCTCACCCA
35396 P   G     S   ATGACGTGGCAGACTGAAGCCCTGCTATCTY
35396 P   A     S   CGCGCCGAGGTTGAAGCCCTGCTATCTY
35396 T   G     S   TGGGAGATAGCAGGGCTTCAGGGGTGAGCTGGGCGACCTGCACTC
35396 T   A     S   TGGGAGATAGCAGGGCTTCAAGGGTCAGCTGGGCGACCTGCACTC

35396 IS  [GA]      TCATCAGGGTAACCTTAAAGGTTTGTTTTAAAAAATGACCTGGGAGATAGCAGGGCTTCA[GA]GGGTGAGCTGGGCGACCTGCACTCGCCCGCACCAGCGACACCTGGAAAAAGGGAACGGG
35501 I         S   CCTGGCAGCTGCTAAGCTGGAACAAACTGA
35501 P   A     S   CGCGCCGAGGTCTAGTCGGTCACTCACT
35501 P   G     S   ATGACGTGGCAGACCTAGTCGGTCACTCACY
35501 T   A     S   CAGCGTGAGTGACCGACTAGACAGTTGTTCCAGCTTAGCAGCTGCCAGGGC
35501 T   G     S   CAGCGTGAGTGACCGACTAGGCAGTTTGTTCCAGCTTAGCAGCTGCCAGGGC

35501 IS  [AG]      GACAAATACATGCTGACCTCAGAGTCATCCTGTTTCTAAACAGCGTGAGTGACCGACTAG[AG]CAGTTTGTTCCAGCTTAGCAGCTGCCAGGGCTATAGGCAGAGGAGATGCCCACAGCAC
35545 I         S   GCAGTTCACAAAAAGCCCTCTTCAGCTGGTAGAAAA
35545 P   A     S   CGCGCCGAGGTAGACTTTTGCATAATCCATTAAGY
35545 P   G     S   ATGACGTGGCAGACCAGACTTTTGCATAATCCATTAAY
35545 T   A     S   AGACCTTAATGGATTATGCAAAAGTCTATTTCTACCAGCTGAAGGAGGCTTTTTGTGAACTGCCT
35545 T   G     S   AGACCTTAATGGATTATGCAAAAGTCTGTTTCTACCAGCTGAAGGAGGCTTTTTGTGAACTGCCT

35545 IS  [AC]      TATTTGTTAGCTCTGAAATGACTCAATACTCTAAGACCTTAATGGATTATGCAAAAGTCT[AG]TTTCTACCAGCTGAAGGAGGCTTTTTGTGAACTGCCTACCAGTGATGATCTATGACTGGC
35567 I         S   GCCCAGCCCATCTCACAGAGGGGTAAAGAT
35567 P   T     S   CGCGCCGAGGAGTTCTAACGTTTCTCATGGY
35567 P   G     S   ATGACGTGGCAGACGGTTCTAACGTTTCTCATGGY
35567 T   T     S   CAAACCATGAGAAAGGTTAGAACTCTTTACCCCTCTGTGAGATGGGCTGGGCCT
35567 T   G     S   CAAACCATGAGAAAGGTTAGAACTCTTTACCCCTCTGTGAGATGGGCTGGGCCT

35567 IS  [TG]      GCATGGCGCCCAGGGTGCCAGTGACTCTGGTTGCTCTCAAACCATGAGAAAGGTTAGAAC[TG]TCTTTACCCCTCTGTGAGATGGGCTGGGCCTCTGGCCTCTGAGGAGCCTCCAGGAATGGCAG
35589 I         A   GGATTTGGAGACACAATCCCCAGACTTGGGGAT
35589 P   C     A   ATGACGTGGCAGACCAGCTGGATATGGTGY
35589 P   A     A   CGCGCCGAGGAGACTGGATATGGTGGY
35589 T   C     A   TTCACCACCATATCCAGCTGTCCCCAAGTCTGGGGGATTGTGTCTCCAAATCCCC
35589 T   A     A   TTCACCACCATATCCAGCTCTTCCCCAAGTCTGGGGGATTGTGTCTCCAAATCCCC

35589 IS  [CA]      GGGGTGGAAAGAAGCACAGATACGAGAGGGGATTTGGAGACACAATCCCCAGACTTGGGGA[CA]GAGCTGGATATGGTGGTGAAGCAGGGGAGTCTTCAGGAAAGACCCCCAGGTTCTGGCTT
                    G
35592 I         S   CGATTCCCACCTGTCCCCGACCCCC
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FIGURE 129F

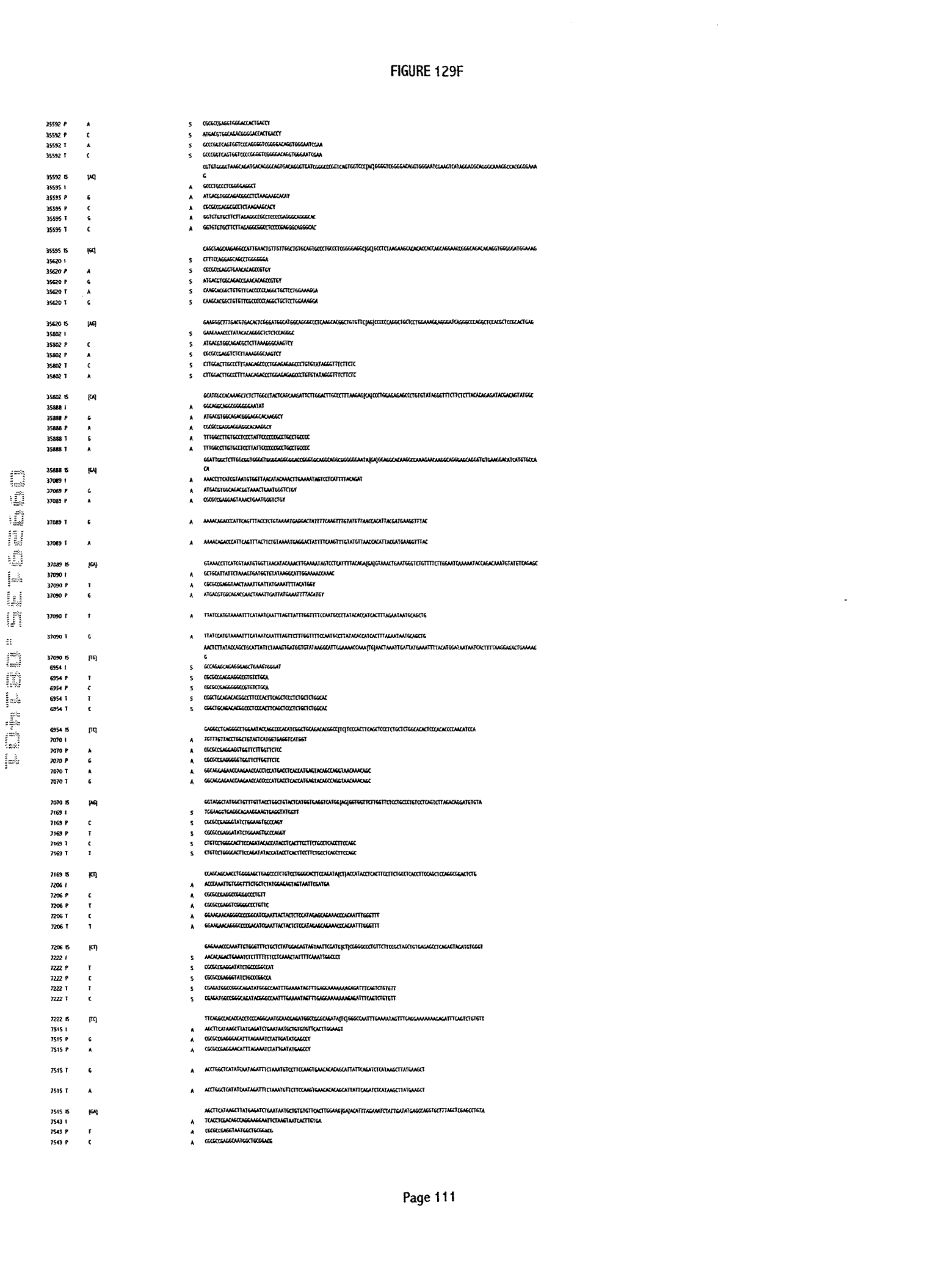

35592 P A S CGCGCCGAGGTGGGACCACTGACCY
35592 P C S ATGACGTGGCAGACGGGGACCACTGACCY
35592 T A S GCCCGGTCAGTGGTCCCAGGGGTCGGGGACAGGTGGGAATCGAA
35592 T C S GCCCGGTCAGTGGTCCCCGGGGTCGGGGACAGGTGGGAATCGAA
35592 IS [AC] GGTGTGGGGTAAGCAGATGACACAGGCAGTGACAGGGTGATCGGGCCCGGTCAGTGGTCCC[AC]GGGGTCGGGGACAGGTGGGAATCGAAGTCATAGGAGGCAGGGCAAAGGCCACGGGGAAAG
35595 I A GCCCTGCCCTCGGGCAGGCT
35595 P G A ATGACGTGGCAGACGGCCTCTAAGAAGCACAY
35595 P C A CGCGCCGAGGCGCCTCTAAGAAGCACY
35595 T G A GGTGTGTGCTTCTTAGAGGCCGCCTCCCCGAGGGCAGGGCAC
35595 T C A GGTGTGTGCTTCTTAGAGGCGGCCTCCCCGAGGGCAGGGCAC
35595 IS [GC] CAGCGAGCAAGAGGCATTGAACTGTTGTTGGCTGTGCAGTGCCCTGCCCTCGGGGAGGCGCGCTGCCTCTAACAAGCACACCACCAGCAGGAACCGGCAGACAGAGGTGGGGGATGGAAAG
35620 I S CTTTCCAGGAGCAGCCTGGGGGGA
35620 P A S CGCGCCGAGGTGAACACAGCCGTGY
35620 P G S ATGACGTGGCAGACCGAACACAGCCGTGY
35620 T A S CAAGCACGGCTGTGTTCACCCCCCAGGCTGCTCCTGGAAAGGA
35620 T G S CAAGCACGGCTGTGTTCGCCCCCAGGCTGCTCCTGGAAAGGA
35620 IS [AG] GAAGGCTTTGACGTGACACTCGGGATGGCATGGCAGGGCCCTCAAGCACGGCTGTGTTC[AG]CCCCCAGGCTGCTCCTGGAAAGGAGGGATCAGGGCCCAGGCTCCACGCTCCGCACTGAG
35802 I S GAAGAAACCCTATACACAGGGCTCTCTCCCAGGGC
35802 P C S ATGACGTGGCAGACGCTCTTAAAGGGCAAGTCY
35802 P A S CGCGCCGAGGTCTCTTAAAGGGCAAGTCY
35802 T C S CTTGGACTTGCCCTTTAAGAGCCCTGGAGAGAGCCCTGTGTATAGGGTTTCTTCTC
35802 T A S CTTGGACTTGCCCTTTAAGAGCACCCTGGAGAGAGCCCTGTGTATAGGGTTTCTTCTC
35802 IS [CA] GCATCGCCACAAAGCTCTCTTGGCCTACTCAGCAAGATTCTTGGACTTGCCCTTTAAGAG[CA]CCCTGGAGAGAGCCCTGTGTATAGGGTTTCTTCTCTTACACAGAGATACGACAGTATGGC
35888 I A GGCAGGCAGGCGGGGGGAATAT
35888 P G A ATGACGTGGCAGACGGGAGGCACACAAGGCY
35888 P A A CGCGCCGAGGAGGAGGCACAAGGCY
35888 T G A TTTGGCCTTGTGCCTCCCTATTCCCCCCGCCTGCCTGCCCC
35888 T A A TTTGGCCTTGTGCCTCCCTTATTCCCCCCGCCTGCCTGCCCC
35888 IS [GA] GGATTGGCTCTTGGCGGTGGGGTGGGGCAGGGGGACCGGGGGCAGGCAGGCGGGGGGAATA[GA]GGAGGCACAAGGCCAAAGAACAAGGCAGGAGCAGCAGGTGTGAAGGACATCATGTGCCA
CA
37089 I A AAACCTTCATCGTAATGTGGTTAACATACAAACTTGAAAATAGTCCTCATTTTACAGAT
37089 P G A ATGACGTGGCAGACGGTAAACTCAATGGGTCTGY
37089 P A A CGCGCCGAGGAGTAAACTGAATGGGTCTGY
37089 T G A AAAACAGACCCATTCAGTTTACCTCTGTAAAATGAGGACTATTTTCAAGTTTGTATCTTAACCACATTACGATGAAGGTTTAC
37089 T A A AAAACAGACCCATTCAGTTTACTCTGTAAAATGAGGACTATTTTCAAGTTTGTATGTTAACCACATTACGATGAAGGTTTAC
37089 IS [GA] GTAAACCTTCATCGTAATGTGGTTAACATACAAACTTGAAAATAGTCCTCATTTTACAC[GA]GTAACTGAATGGGTCTGTTTTCTTGGAATCAAAAATACCAGACAAATGTATGTCAGAGC
37090 I A GCTGCATTATTCTAAAGTGATGGTGTATAAGGCATTGGAAAACCAAAC
37090 P T A CGCGCCGAGGTAACTAAATTGATTATGAAATTTTACATGGY
37090 P G A ATGACGTGGCAGACGAACTAAATTGATTATGAAATTTTACATGY
37090 T T A TTATCCATGTAAAATTTCATAATCAATTTAGTTATTTGGTTTCCAATGCCTTATACACCATCACTTTAGAATAATGCAGCTG
37090 T G A TTATCCATGTAAAATTTCATAATCAATTTAGTTCTTTGGTTTTCCAATGCCTTATACACCATCACTTTAGAATAATGCAGCTG
37090 IS [TG] AACTCTTATACCAGCTGCATTATTCTAAAGTGATGGTGTATAAGGCATTGGAAAACCAAA[TG]AACTAAATTGATTATGAAATTTTACATGGATAATAATCACTTTTAAGGAGACTGAAAAG
G
6954 I S GCCAGAGCAGAGGGAGCTGAAGTGGGAT
6954 P T S CGCGCCGAGGAGGCCGTGTCTGCA
6954 P C S CGCGCCGAGGGGGCCGTGTCTGCA
6954 T T S CGGCTGCAGACACGGCCTTCCCACTTCAGCTCCCTCTGCTCTGGCAC
6954 T C S CGGCTGCAGACACGGCCCTCCCACTTCAGCTCCCTCTGCTCTGGCAC
6954 IS [TC] GAGGCCTGAGGGCCTGGAATACCAGCCCCACATCGGCTGCAGACACGGCC[TC]TCCCACTTCAGCTCCCTCTGCTCTGCACACTCCCACACCCCAACATCCA
7070 I A TGTTTGTTACCTGGCTGTACTCATGGTGAGGTCATGGT
7070 P A A CGCGCCGAGGAGGTGGTTCTTGGTCTCC
7070 P G A CGCGCCGAGGGGGTGGTTCTTGGTCTC
7070 T A A GGCAGGAGAACCAAGAACCACCTCCATGACCTCACCATGAGTACAGCCAGGTAACAAACAGC
7070 T G A GGCAGGAGAACCAAGAACCACCCCATGACCTCACCATGAGTACAGCCAGGTAACAAACAGC
7070 IS [AG] GGTAGGCTATGGCTGTTTGTTACCTGGCTGTACTCATGGTGAGGTCATGG[AG]GGTGGTTCTTGGTTCTCCTGCCCTGTCCTCAGTCTTAGACAGGATGTGTA
7169 I S TGGAAGGTGAGGCAGAAGGAAGTGAGGTATGGTT
7169 P C S CGCGCCGAGGGTATCTGGAAGTGCCCAGY
7169 P T S CGCGCCGAGGATATCTGGAAGTGCCAGGY
7169 T C S CTGTCCTGGGCACTTCCAGATACACCATACCTCACTTCCTTCTGCCTCACCTTCCAGC
7169 T T S CTGTCCTGGGCACTTCCAGATATACCATACCTCACTTCCTTCTGCCTCACCTTCCAGC
7169 IS [CT] CCAGCAGCAACCTGGGGAGCTGAGCCCCTCTGTCCTGGGCACTTCCAGATA[CT]ACCATACCTCACTTCCTTCTGCCTCACCTTCCAGCTCCAGGCCGAGCCTCTG
7206 I A ACCCAAATTGTGGGTTTCTGCTCTATGGAGAGTAGTAATTCGATGA
7206 P C A CGCGCCGAGGCGCGAGGCCCCTGTT
7206 P T A CGCGCCGAGGTCGGGGCCCTGTTC
7206 T C A GGAGAACAGGGCCCCGGCATCGAATTACTACTCTCCATAGAGCAGAAACCCACAATTTGGGTTT
7206 T T A GGAGAACAGGGCCCCGGACATCGAATTACTACTCTCCATAGAGCAGAAACCCACAATTTGGGTTT
7206 IS [CT] GAGAAACCCAAATTGTGGGTTTCTGCTCTATGGAGAGTAGTAATTCGATG[CT]CCGGGCCCTGTTCTTCCCGCTAGCTGTGAGAGCCTCAGAGTAGATGTGGGT
7222 I S AACACAGACTGAAATCTCTTTTTTTCCTCAAACTATTTTCAAATTGGCCCT
7222 P T S CCGCCGAGGATATCTGCCCGGCCAT
7222 P C S CGCGCCGAGGGTATCTGCCCGGCCA
7222 T T S CGAGATGGCCGGGCAGATATGGGCCAATTTGAAAATAGTTTGAGGAAAAAAAGAGATTTCAGTCTGTGTT
7222 T C S CGAGATGGCCGGGCAGATACGGGCCAATTTGAAAATAGTTTGAGGAAAAAAAGAGATTTCAGTCTGTGTT
7222 IS [TC] TTCAGGCCACACCACCTCCCAGGGAATGCAACGAGATGGCCGGGCAGATA[TC]GGGCCAATTTGAAAATAGTTTGAGGAAAAAAGAGATTTCAGTCTGTGTT
7515 I A AGCTTCATAAGCTTATGAGATCTGAATAATGCTGTGTGTTCACTTGGAAG
7515 P G A CGCGCCGAGGGACATTTAGAAATCTATTGATATGAGCCY
7515 P A A CGCGCCGAGGAACATTTAGAAATCTATTGATATGAGCCY
7515 T G A ACCTGGCTCATATCAATAGATTTCTAAATGTCCTTCCAAGTGAACACACAGCATTATTCAGATCTCATAAGCTTATGAAGCT
7515 T A A ACCTGGCTCATATCAATAGATTTCTAAATGTTCTTCCAAGTGAACACACAGCATTATTCAGATCTCATAAGCTTATGAAGCT
7515 IS [GA] AGCTTCATAAGCTTATGAGATCTGAATAATGCTGTGTGTTCACTTGGAAG[GA]ACATTTAGAAATCTATTGATATGAGCCAGGTGCTTTAGCTCGAGCCTGTA
7543 I A TCACCTGCACAGCCAGGAAGGAATTCTAAGTAATCACTTGTGA
7543 P T A CGCGCCGAGGTAATGGCTGCGGACG
7543 P C A CGCGCCGAGGCAATGGCTGCGGACG

FIGURE 129F



FIGURE 129F

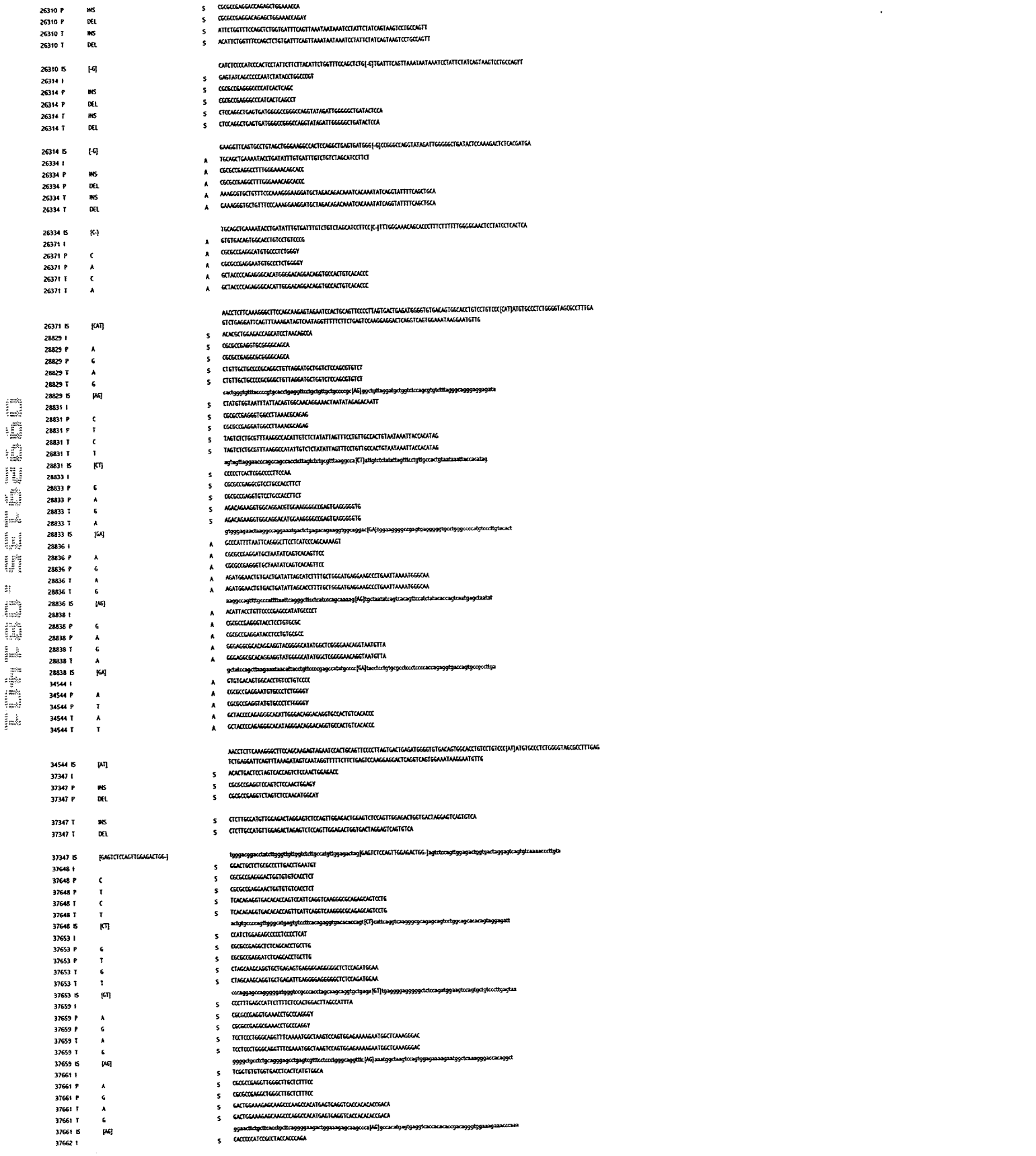

26310 P INS S CGCGCCGAGGACCAGAGCTGGAAACCA
26310 P DEL S CGCGCCGAGGACAGAGCTGGAAACCAGAY
26310 T INS S ATTCTGGTTTCCAGCTCTGGTGATTTCAGTTAAATAATAAATCCTATTCTATCAGTAAGTCCTGCCAGTT
26310 T DEL S ACATTCTGGTTTCCAGCTCTGTGATTTCAGTTAAATAATAAATCCTATTCTATCAGTAAGTCCTGCCAGTT
26310 IS [-G] CATCTCCCCATCCCACTCCTATTCTTCTACATTCTGGTTTCCAGCTCTG[-G]TGATTTCAGTTAAATAATAAATCCTATTCTATCAGTAAGTCCTGCCAGTT
26314 I S GAGTATCAGCCCCCAATCTATACCTGGCCCGT
26314 P INS S CGCGCCGAGGGCCCCATCACTCAGC
26314 P DEL S CGCGCCGAGGGCCCATCACTCAGCCT
26314 T INS S CTCCAGGCTGAGTGATGGGGCCGGGCCAGGTATAGATTGGGGGCTGATACTCCA
26314 T DEL S CTCCAGGCTGAGTGATGGGCCGGGCCAGGTATAGATTGGGGGCTGATACTCCA
26314 IS [-G] GAAGGTTCAGTGCCTGTAGCTGGGAAGGCCACTCCAGGCTGAGTGATGGG[-G]CCGGGCCAGGTATAGATTGGGGGCTGATACTCCAAAGACTCTCACGATGA
26334 I A TGCAGCTGAAAATACCTGATATTTGTGATTTGTCTGTCTAGCATCCTTCC
26334 P INS A CGCGCCGAGGCCTTTGGGAAACAGCACCC
26334 P DEL A CGCGCCGAGGCTTTGGGAAACAGCACCC
26334 T INS A AAAGGGTGCTGTTTCCCAAAGGGAAGGATGCTAGACAGACAAATCACAAATATCAGGTATTTTCAGCTGCA
26334 T DEL A GAAAGGGTGCTGTTTCCCAAAGGAAGGATGCTAGACAGACAAATCACAAATATCAGGTATTTTCAGCTGCA
26334 IS [C-] TGCAGCTGAAAATACCTGATATTTGTGATTTGTCTGTCTAGCATCCTTCC[C-]TTTGGGAAACAGCACCCTTTCTTTTTTGGGGGAACTCCTATCCTCACTCA
26371 I A GTGTGACAGTGGCAICTGTCCTGTCCCG
26371 P C A CGCGCCGAGGCATGTGCCCTCTGGGGY
26371 P A A CGCGCCGAGGAATGTGCCCTCTGGGGY
26371 T C A GCTACCCCAGAGGGCACATGGGGACAGGACAGGTGCCACTGTCACACCC
26371 T A A GCTACCCCAGAGGGCACATTGGGACAGGACAGGTGCCACTGTCACACCC
26371 IS [CAT] AACCTCTTCAAAGGGCTTCCAGCAAGAGTAGAATCCACTGCAGTTCCCCTTAGTGACTGAGATGGGGTGTGACAGTGGCACCTGTCCTGTCCC[CAT]ATGTGCCCTCTGGGGTAGCGCCTTTGA
GTCTGAGGAATTCAGTTTAAAGATAGTCAATAGGTTTTTCTTCTGAGTCCAAGGAGGACTCAGGTCAGTGGAAATAAGGAATGTTG
28829 I S ACACGCTGGAGACCAGCATCCTAACAGCCA
28829 P A S CGCGCCGAGGTGCGGGGCAGCA
28829 P G S CGCGCCGAGGGCGCGGGCAGCA
28829 T A S CTGTTGCTGCCCCGCAGGCTGTTAGGATGCTGGTCTCCAGCGTGTCT
28829 T G S CTGTTGCTGCCCCGCGGGCTGTTAGGATGCTGGTCTCCAGCGTGTCT
28829 IS [AG] cactgggtgtttacccagtgcacctgaggttcctgctgttgctgcccccgc[AG]ggctgttaggatgctggtctccagcgtgtctttagggcagggaggagata
28831 I S CTATGTGGTAATTTATTACAGTGGCAACAGGAAACTAATATAGAGACAATT
28831 P C S CGCGCCGAGGGTGGCCTTAAACGCAGAG
28831 P T S CGCGCCGAGGATGGCCTTAAACGCAGAG
28831 T C S TAGTCTCTGCGTTTAAGGCCACATTGTCTCTATATTAGTTTCCTGTTGCCACTGTAATAAATTACCACATAG
28831 T T S TAGTCTCTGCGTTTAAGGCCATATTGTCTCTATATTAGTTTCCTGTTGCCACTGTAATAAATTACCACATAG
28831 IS [CT] agtagttaggaacccagccagccaccactctagtctctgcgtttaaggcca[CT]attgtctctatattagtttcctgttgccactgtaataaattaccacatag
28833 I S CCCCCTCACTCGGCCCCTTCCAA
28833 P G S CGCGCCGAGGCGTCCTGCCACCTTCT
28833 P A S CGCGCCGAGGTGTCCTGCCACCTTCT
28833 T G S AGACAGAAGGTGGCAGGAGTGGAAGGGGCCGAGTGAGGGGGTG
28833 T A S AGACAGAAGGTGGCAGGAGACATGGAAGGGGCCGAGTGAGGGGGTG
28833 IS [GA] gtgggagaactaaggccaggaaatgactctgagacagaaaggtggcaggac[GA]tggaaggggccgagtgaggggtgcctgggccccatgtcccttgtacact
28836 I A GCCCATTTTAATTCAGGGCTTCCTCATCCCAGCAAAAGT
28836 P A A CGCGCCGAGGATGCTAATATCAGTCACAGTTCC
28836 P G A CGCGCCGAGGGTGCTAATATCAGTCACAGTTCC
28836 T A A AGATGGAACTGTGACTGATATTAGCATCTTTTGCTGGGATGAGGAAGCCCTGAATTAAAATGGGCAA
28836 T G A AGATGGAACTGTGACTGATATTAGCACCTTTTGCTGGGATGAGGAAGCCCTGAATTAAAATGGGCAA
28836 IS [AG] aaggccagtttgcccatttaattcaggcttctctcatcccagcaaaag[AG]tgctaatatcagtcacagttccatctatacaccagtcaatgagctaatat
28838 I A ACATTACCTGTTCCCCGAGCCATATGCCCCT
28838 P G A CGCGCCGAGGGTACCTCCTGTGCGC
28838 P A A CGCGCCGAGGATACCTCCTGTGCGCC
28838 T G A GGCAGGCGCACAGCAGGTACGGGCCATATGGCTCGGGCAACAGGTAATGTTA
28838 T A A GGCAGGCGCACAGCAGGTATGGGGCATATGGCTCGGGCAACAGGTAATGTTA
28838 IS [GA] gctatccagcttaagaaataacattacctgttcccgagccctatgcccc[GA]taactccctgtgcgcctcctcccaccagaggtgaccagtgccgccttga
34544 I A GTGTGACAGTGGCACCTGTCCTGTCCCC
34544 P A A CGCGCCGAGGAATGTGCCCTCTGGGGY
34544 P T A CGCGCCGAGGTATGTGCCCTCTGGGGY
34544 T A A GCTACCCCAGAGGGCACATTGGGACAGGACAGGTGCCACTGTCACACCC
34544 T T A GCTACCCCAGAGGGCACATAGGGACAGGACAGGTGCCACTGTCACACCC
34544 IS [AT] AACCTCTTCAAAGGGCTTCCAGCAAGAGTAGAATCCACTGCAGTTCCCCTTAGTGACTGAGATGGGGTGTGACAGTGGCACCTGTCCTGTCCC[AT]ATGTGCCCTCTGGGGTAGCGCCTTTGAG
TCTGAGGAATTCAGTTTAAAGATAGTCAATAGGTTTTTCTTCTGAGTCCAAGGAGGACTCAGGTCAGTGGAAATAAGGAATGTTG
37347 I S ACACTGACTCCTAGTCACCAGTCTCCAACTGGAGACC
37347 P INS S CGCGCCGAGGTCCAGTCTCCAACTGGAGY
37347 P DEL S CGCGCCGAGGTCTAGTCTCCAACATGGCAY
37347 T INS S CTCTTGCCATGTTGGAGACTAGGAGTCTCCAGTTGGAGACTGGAGTCTCCAGTTGGAGACTGGTGACTAGGAGTCAGTGTCA
37347 T DEL S CTCTTGCCATGTTGGAGACTAGAGTCTCCAGTTGGAGACTGGTGACTAGGAGTCAGTGTCA
37347 IS [GAGTCTCCAGTTGGAGACTGG-] tgggacggacctatcttgggttgttggtctcttgccatgttggagactag[GAGTCTCCAGTTGGAGACTGG-]agtctccagttggagactggtgactaggagtcagttgtccaaaaccctttgta
37648 I S GGACTGCTCTGCCCCCTTGACCTGAATGT
37648 P C S CGCGCCGAGGGACTGGTGTGTCACCTCT
37648 P T S CGCGCCGAGGAACTGGTGTGTCACCTCT
37648 T C S TCACAGAGGTGACACACCAGTCCATTCAGGTCAAGGGCGCAGAGCAGTCCTG
37648 T T S TCACAGAGGTGACACACCAGTTCATTCAGGTCAAGGGCGCAGAGCAGTCCTG
37648 IS [CT] actgtgcccacgttgggcatgagtgtccttcacagaggtgacacaccagt[CT]catccaggtcaagggcgcagagcagtcctggcagcacacagtaggagatt
37653 I S CCATCTGGAGAGCCCCCTCCCCTCAT
37653 P G S CGCGCCGAGGCTCTCAGCACCTGCTTG
37653 P T S CGCGCCGAGGATCTCAGCACCTGCTTG
37653 T G S CTAGCAAGCAGGTGCTGAGAGTGAGGGCAGGGGGCTCTCCAGATGGAA
37653 T T S CTAGCAAGCAGGTGCTGAGATTGAGGGCAGGGGGCTCTCCAGATGGAA
37653 IS [GT] cccaggagccagggggatgtgggtccgcccacctagcaagcaggtgctgagg[GT]tgagggagggggctctccagatggaagtccagtgctgtccctgagtaa
37659 I S CCCTTTGAGCCATTCTTTTCTCCACTGGACTTAGCCATTTA
37659 P A S CGCGCCGAGGTGAAACCTGCCCAGGGY
37659 P G S CGCGCCGAGGCGAAACCTGCCCAGGY
37659 T A S TCCTCCCTGGGCAGGTTTCAAAATGGCTAAGTCCAGTGGAGAAAAGAATGGCTCAAAGGGAC
37659 T G S TCCTCCCTGGGCAGGTTTCGAAATGGCTAAGTCCAGTGGAGAAAAGAATGGCTCAAAGGGAC
37659 IS [AG] ggggctgcctctgcagggagcctgagtcgtttcctcccctgggcaggtttc[AG]aaatggctaagtccagtggagaaaagaatggctcaaagggacacaaggct
37661 I S TCGGTGTGTGGTGACCTCACTCATGTGGCA
37661 P A S CGCGCCGAGGTTGGGCTTGCTCTTTCC
37661 P G S CGCGCCGAGGCTGGGCTTGCTCTTTCC
37661 T A S GACTGGAAAGAGCAAGCCCAAGCCACATGAGTCAGGTCACCACACACCGACA
37661 T G S GACTGGAAAGAGCAAGCCCAGGCCACATGAGTCAGGTCACCACACACCGACA
37661 IS [AG] ggaactctgcttcacctgctcagggagaagactggaaaagagcaagcccaj[AG]gccacatgagtgaggtcaccacacacccgacagggtggaaagaaacccaaa
37662 I S CACCCCATCCGCCTACCACCCAGA

FIGURE 129F

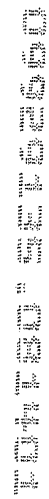
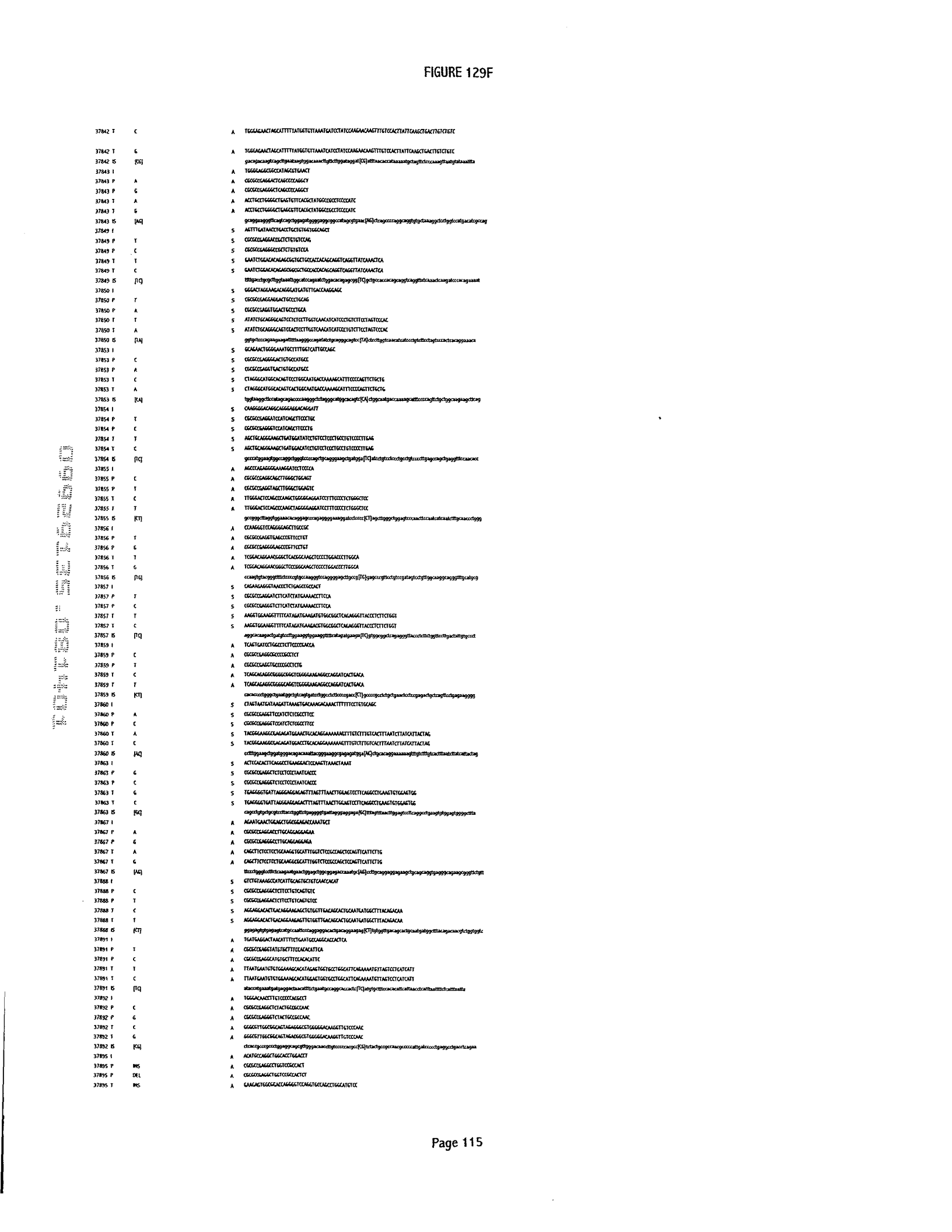
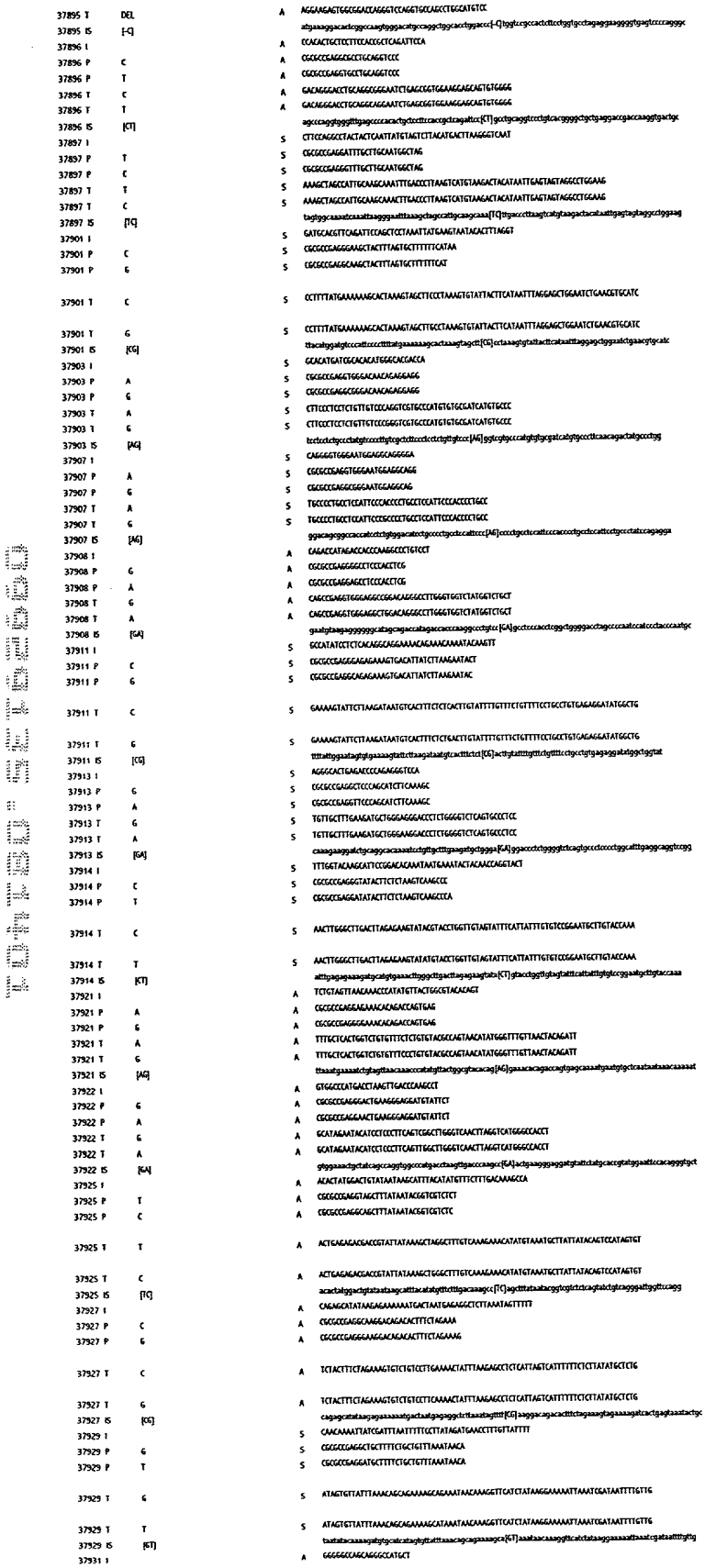


FIGURE 129F



Attorney Docket No.: 10468-0001

FIGURE 129F



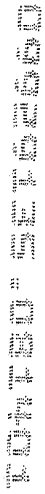


FIGURE 129F

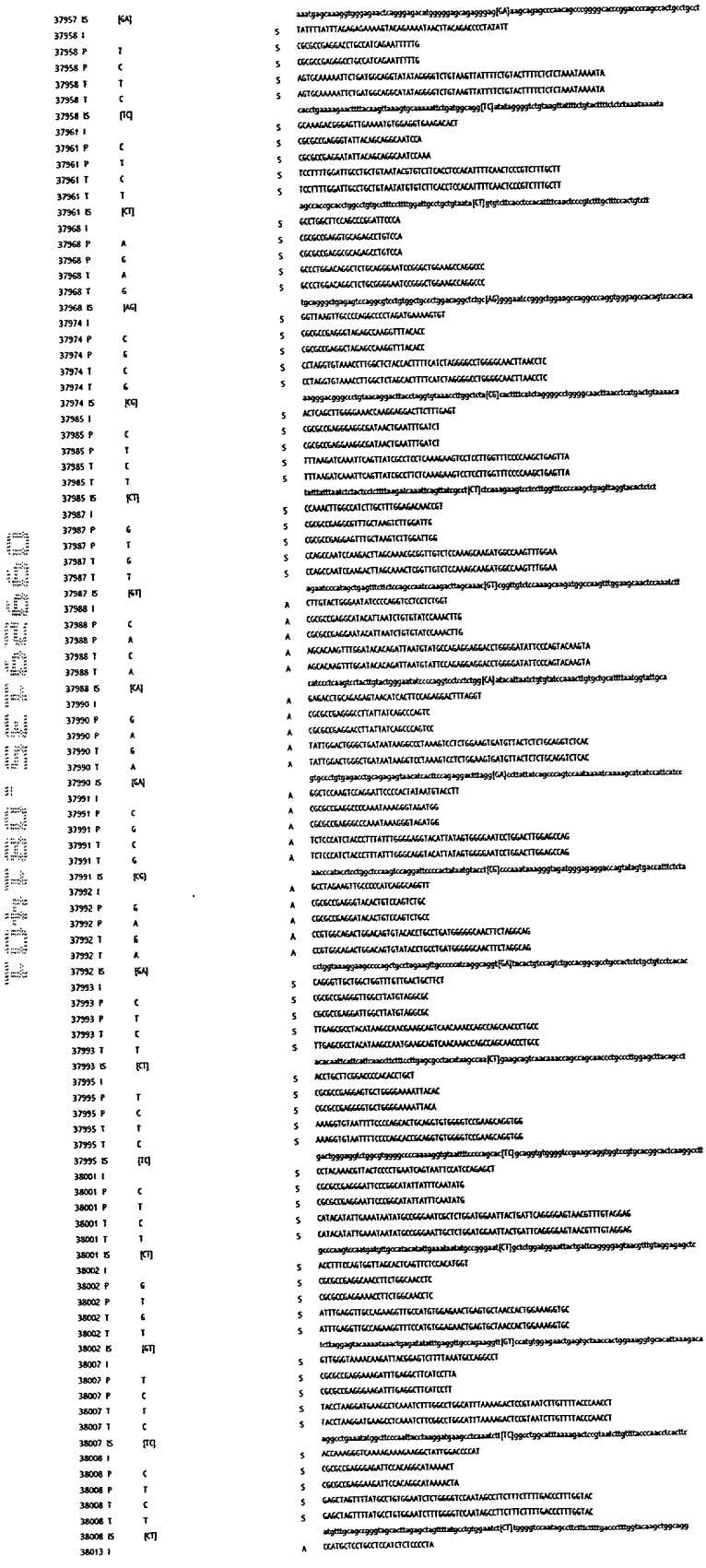


FIGURE 129F

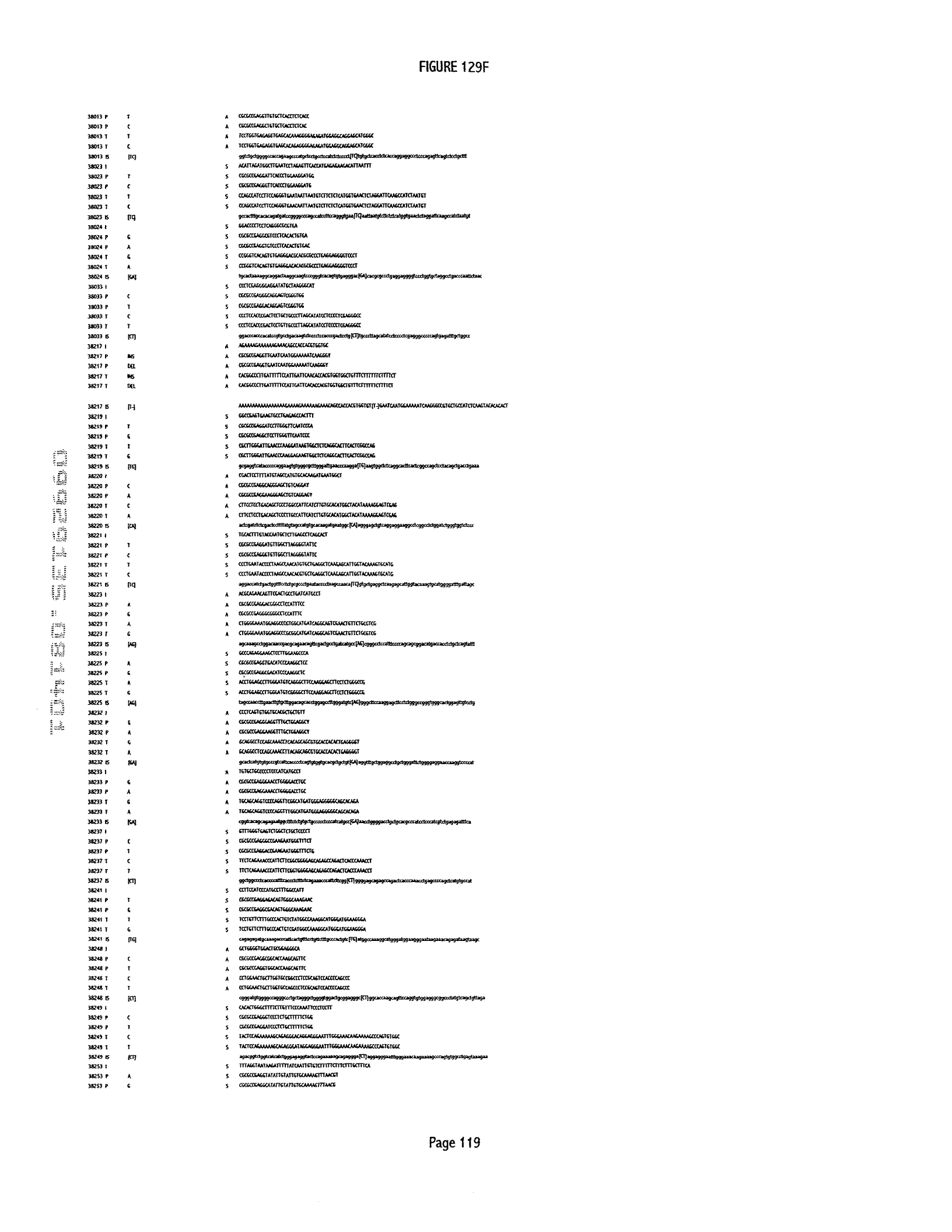




FIGURE 129F

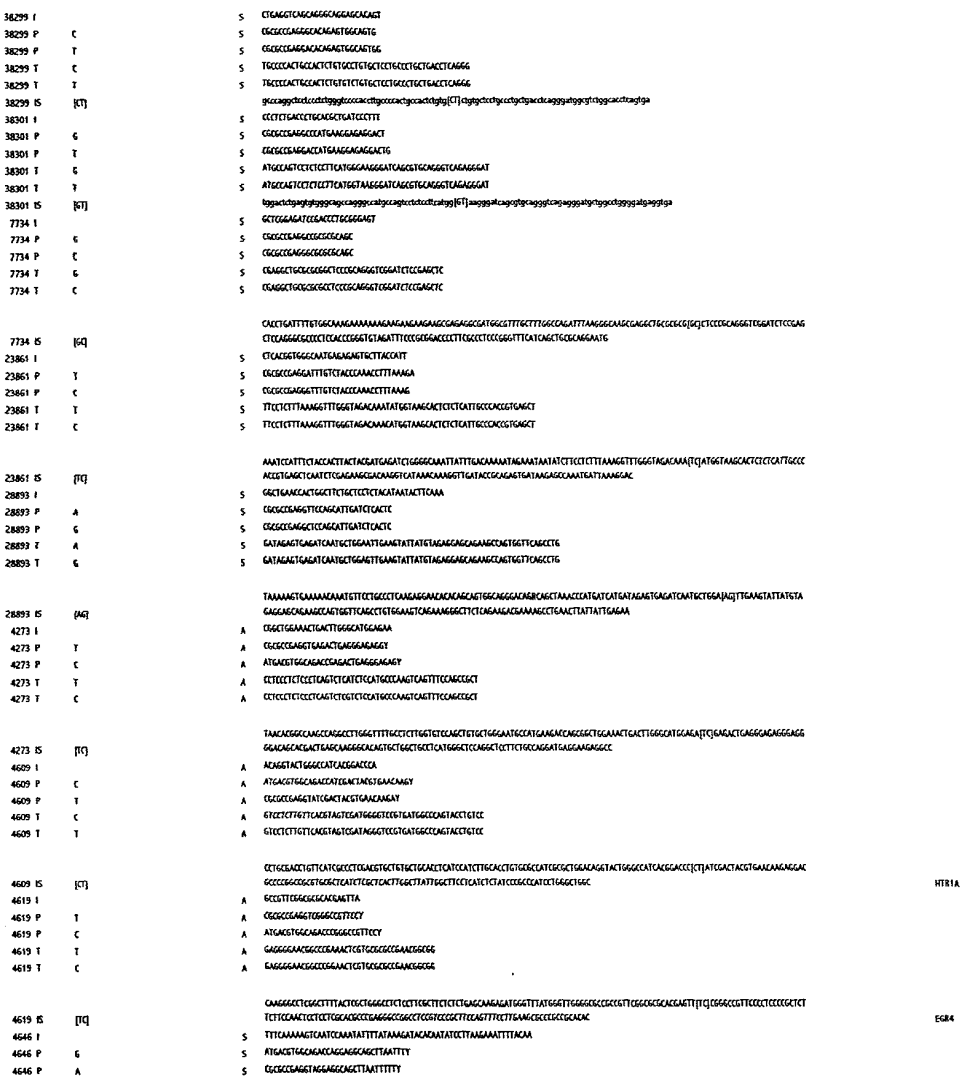

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38299 P C S CGCGCCGAGGGCACAGAGTGGCAGTG
38299 P T S CGCGCCGAGGACACAGAGTGGCAGTGG
38299 T C S TGCCCCACTGCCACTCTGTGCCTGTGCTCCTGCCCTGCTGACCTCAGGG
38299 T T S TGCCCCACTGCCACTCTGTGTCTGTGCTCCTGCCCTGCTGACCTCAGGG
38299 IS [CT] gcccaggctccdccdctgggtcccccactgcccactgccactctgtg[CT]ctgtgctcctgccctgctgaccdcagggatgggtctcggcaccttcagtga
38301 I S CCCTCTGACCCTGCAGCCTGATCCCTTT
38301 P G S CGCGCCGAGGCCCATGAAGAGAGAGCACT
38301 P T S CGCGCCGAGGACCATGAAGGAGAGGACTG
38301 T G S ATGCCAGTCCTCTCCTTCATGGGAAGGGATCAGCGTGCAGGGTCAGAGGGAT
38301 T T S ATGCCAGTCCTCTCCTTCATGGTAAGGGATCAGCGTGCAGGGTCAGAGGGAT
38301 IS [GT] tggacctcgagtgtgggcagccagggccatgccagctcctccdtcatgg[GT]aagggatcagcgtgcagggtcagaggatgctggcctgggggatgaggtga
7734 I S GCTGGAGATCCGACCCTGCGGGAGT
7734 P G S CGCGCCCGAGCCCGCCGCAGC
7734 P C S CGCGCCGAGGGCGCGCGCAGC
7734 T G S CGAGGCTGCGCGCGGCTCCCGCAGGGTCGGATCTCCGAGCTC
7734 T C S CGAGGCTGCGCGCGCTCCCGCAGGGTCGGATCTCCGAGCTC
7734 IS [GC] CACCTGATTTTGTGGCAAGAAAAAAGAAGAAGAAGAAGCGAGAGGCGATGGCGTTTGCTTTGGCCAGATTTAAGGGCGAAGCGAGGCTGCCGCCGCG[GC]CTCCGCAGGGTCGGATCTCCGAG CTCGAGGGCGCCCTCCACCCGGGTGTAGATTTCCCGCGGACCCCTTCGCCCTCCCGGGTTTCATCAGCTGCGCAGGAATG
23861 I S CTCACGGTGGGCAATGAGAGAGTGCTTACCATT
23861 P T S CGCGCCGAGGATTTGTCTACCCAAACCTTTAAAGA
23861 P C S CGCGCCGAGGGTTTGTCTACCCAAACCTTTAAAG
23861 T T S TTCCTCTTTAAAGGTTTGGGTAGACAAATATGGTAAGCACTCTCTCATTGCCCACCGTGAGCT
23861 T C S TTCCTCTTTAAAGGTTTGGGTAGACAAACATGGTAAGCACTCTCTCATTGCCCACCGTGAGCT
23861 IS [TC] AAATCCATTTCTACCACTTACTACGATGAGATCTGGGGCAAATTATTTGACAAAAATAGAAATAAATATCTTCCTCTTTAAAGGTTTGGGTAGACAAA[TC]ATGGTAAGCACTCTCTCATTGCCC ACCGTGAGCTCAATCTCGAGAAGCGACAAGGTCATAAACAAAGGTTGATACCGCAGAGTGATAAGAGCCAAATGATTAAAGCAC
28893 I S GGCTGAACCACTGGCTTCTGCTCCTCTACATAATACTTCAAA
28893 P A S CGCGCCGAGGTTCCAGCATTGATCTCACTC
28893 P G S CGCGCCGAGGCTCCAGCATTGATCTCACTC
28893 T A S GATAGAGTGAGATCAATGCTGGAGTTGAAGTATTATGTAGAGAGGAGCAGAAGCCAGTGGTTCAGCCTG
28893 T G S GATAGAGTGAGATCAATGCTGGAGTTGAAGTATTATGTAGAGAGGAGCAGAAGCCAGTGGTTCAGCCTG
28893 IS [AG] TAAAAAGTCAAAAACAAATGTTCCTGCCCTCAAGAGGAACACACAGCAGTGGCAGGGACAGBCAGCTAAACCCATGATCATGATAGAGTGAGATCAATGCTGGA[AG]TTGAAGTATTATGTA GAGGAGCAGAAGCCAGTGGTTCAGCCTGTGGAAGTCAGAAAGGGCCTCTCAGAAGACGAAAAGCCTGAACTTATTATTGAGAA
4273 I A CGGCTGGAAACTGACTTGGGCATGCAGAA
4273 P T A CGCGCCGAGGTGAGACTGAGGGAGAGGY
4273 P C A ATGACGTGGCAGACCGAGACTGAGGGAGAGY
4273 T T A CCTCCCTCTCCCTCAGTCTCATCTCCATGCCCAAGTCAGTTTCCAGCCGCT
4273 T C A CCTCCCTCTCCCTCAGTCTCGTCTCCATGCCCAAGTCAGTTTCCAGCCGCT
4273 IS [TC] TAACAGGGCCAACCCAGGCCTTGGGTTTTGCCTCTTGGTGTCCAGCTGTGCTGGGAATGCCATGAAGACCAGCGGCTGCAAACTGACTTGGGCATGCAGA[TC]GAGACTCAGGGACAGGGAGG GGACAGCACGACTGAGCAAGGGCACAGTGCTGGCTGCCTCATGGGCTCCAGGCTCTTCTGCCAGGATGAGCAAGAGGCC
4609 I A ACAGGTACTGGGCCATCACGGACCCA
4609 P C A ATGACGTGGCAGACCATCGACTACGTGAACAAGY
4609 P T A CGCGCCGAGGTATCGACTACGTGAACAAGAY
4609 T C A GTCCTCTTGTTCACGTAGTCGATAGGGTCCGTGATGGCCCAGTACCTGTCC
4609 T T A GTCCTCTTGTTCACGTAGTCGATAGGGTCCGTGATGGCCCAGTACCTGTCC
4609 IS [CT] CCTGCGACCTGTTCATCGCCCTCGAGCGTGCTGTGCTGCACCTCATCCATCTTGCACCTGTGCGCCATCGCGCTGCACAGTACTGGGCCATCACGCACCC[CT]ATCGACTACGTGAACAAGAGGAC GCCCCGGCCGCGTGCGCTCATCTCGCTCACTTGGCTTATTGGCTTCCTCATCTCTATCCCGCCCATCCTGGGCTGGC HTR1A
4619 I A GCCGTTCGGCGCGCACGAGTTA
4619 P T A CGCGCCGAGGTCGGGCCGTTCCY
4619 P C A ATGACGTGCAGACCGGGCCGTTCCY
4619 T T A GAGGGCGAACGCCCCGAAACTCGTCGCGCGCCGAACGCGCG
4619 T C A GAGGGCGAACGCCCCGAACTCGTCGCGCCGAACGCGCG
4619 IS [TC] CAAGGCCTCGACTTTTACTCGCTGGGCCTCTCCTTCGCTTCTCTCTCGAGCAAGAGATGGGTTTATGGGTTGGGGCGCCGCCGTTCGGCGCGCACGAGTTT[C]CGGGCCGTTCCCCTCCCCGCTCT TCTTCCAACTCCTCCTCGCACGCCGAGGGCCGGCCTCCGTCCCGCTTCCAGTTTCCTTGAAGCCGCCGCCGCACAC EGR4
4646 I S TTTCAAAAAGTCAATCCAAATATTTATAAAGATACACAATATATCCTTAAGAAATTTTACAA
4646 P G S ATGACGTGGCAGACCAGGAGGCAGCTAATTTY
4646 P A S CGCGCCGAGGTAGGAGGCAGCTTAATTTTTY
4646 T G S GAAAAAAAATTAAGCTGCCTCCTGTAAAATTTCTTAAGGATATTGTGTATCTTTATAAAATATTTGGATTGACTTTTTGAAAAT
4646 T A S GAAAAAAAATTAAGCTGCCTCCTATGTAAAATTTCTTAAGGATATTGTGTATCTTTATAAAATATTTGGATTGACTTTTTGAAAAT
4646 IS [GA] TGTTCTTCTGTACAATATTGCCATCCTTCTTGATTGTGTTTTGTTGGTTTGTTTTGGTTTTTAATTTTAAAGCCAAAAGAAAAAAAATTAAGCTGCCTCCT[GA]TGTAAAATTTCTTAAGGATAT TGTGTATCTTTATAAAATATTTGGATTGACTTTTTGAAAATCAAAATTACATCAGTATGAAAATTAATAATCAGAAAAA
4886 I A CCTCTGGCCCAGCACCATCTGTGTGATC
4886 P G A ATGACGTGGCAGACGTCCTTCCATTCTTTACCC
4886 P T A CGCGCCGAGGTTCCTTCCATTCTTTACCC
4886 T G A AGAAGGGTAAAGAATGGAAGGACATCACACAGATGGTGCTGGGCCAGAGGAA
4886 T T A AGAAGGGTAAAGAATGGAAGGAAATCACACAGATGGTGCTGGGCCAGAGGAA
4886 IS [GT] TCCCTCCACCTTCACTCCCCAGTGTCATTCCTTCCTCTGGCCCAGCACCATCTGTGTGAT[GT]TCCTTCCATTCTTTACCCTTCTTGCTTCACATAATGCTGGCAAGCAGACTACCTCACTTT
4947 I A GCCCCACAAGACAAAGGGCAGAGCTCT
4947 P C A ATGACGTGGCAGACCTTCTGACCCATCCCTT
4947 P A A CGCGCCGAGGATTCTGACCCATCCCTT
4947 T C A TGGGAAGGGATGGGTCAGAATGAGCTCTGCCCTTTGTCTTGTGGGGCCC
4947 T A A TGGGAAGGGATGGGTCAGAATGAGCTCTGCCCTTTGTCTTGTGGGGCCC
4947 IS [CA] GGCGTAAGGGGATATTGAGTTTCTGTTACTATGGGCCCACAAGACAAAGGGCAGAGCTC[CA]TCTGACCCATCCCTTCCCATCTCTTATCCCTGATGTCACTACTGAGCTGGGAATCACAG
4967 I A TCTAAGGTTTGTGAGAAAGGTCCCAGGGCCTCT
4967 P A A CGCGCCGAGGAGAATATCTTATGGAGATGTGG
4967 P G A ATGACGTGGCAGACGGAATATCTTATGGAGATGTGG
4967 T A A GCATCCACATCTCCATAAGATATTCTGAAGGCCCTGGGACCTTTCTCACAAACCTTAGAGA
4967 T G A GCATCCACATCTCCATAAGATATTCTGAAGGCCCTGGGACCTTTCTCACAAACCTTAGAGA
4967 IS [AG] GTCTGAGTTCAGAAGGAAGCCCATGTCTCTAAGGTTTGTGAGAAAGGTCCCAGGGCCTTC[AG]GAATATCTTATGGAGATGTGGATGCCCCATGAGCCTCCTTTATTAACCTTTTAGACCTGC
4979 I S GGGGACTCACGAGACCCTCTCCTTGTCCT
4979 P C S ATGACGTGGCAGACGTAGGTCCCTGTGGTTC
4979 P T S CGCGCCGAGGATAGGTCCCTGTGGTTC
4979 T C S ATCTGAACCACAGGGACCTACGGACAAGCAGAGGGTCTCGTGAGTCCCCAG
4979 T T S ATCTGAACCACAGGGACCTATGGACAAGCAGAGGGTCTCGTGAGTCCCCAG
4979 IS [CT] CCAGCGGTGTGGGCGAGCCCTGGCTGGGACTCCTAGACTGCATCTGAACCACAGGGACCTA[CT]GGACAAGCAGAGGGTCTCGTGAGTCCCCAGATACTGCATTTTACAACTCTAGGTTCCAGC
4993 I A AAAGTTTCTGAGAAAAAGTTACTGGCAACCTGAGTTACAGAGAGAATTT

FIGURE 129F



FIGURE 129F

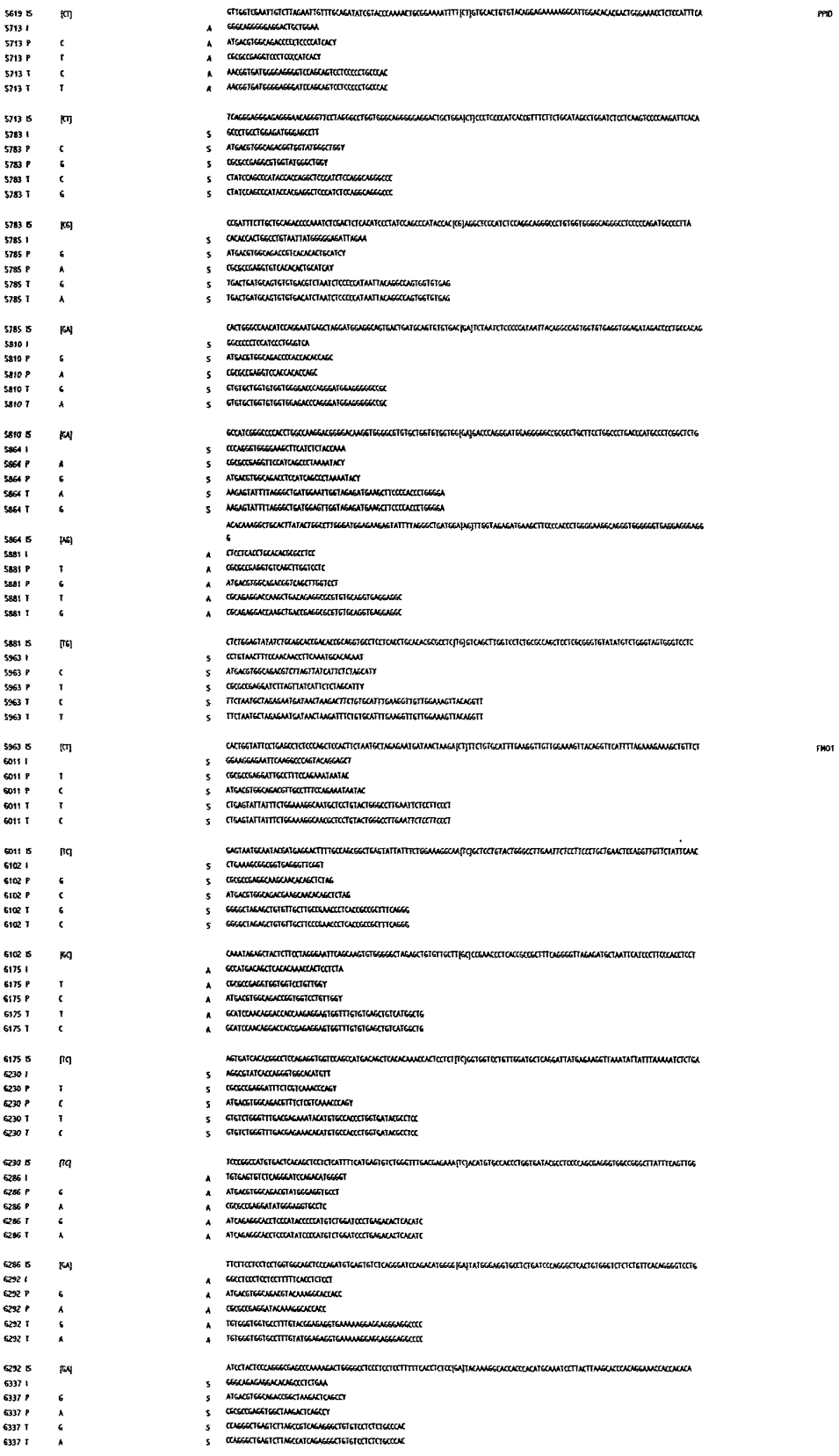
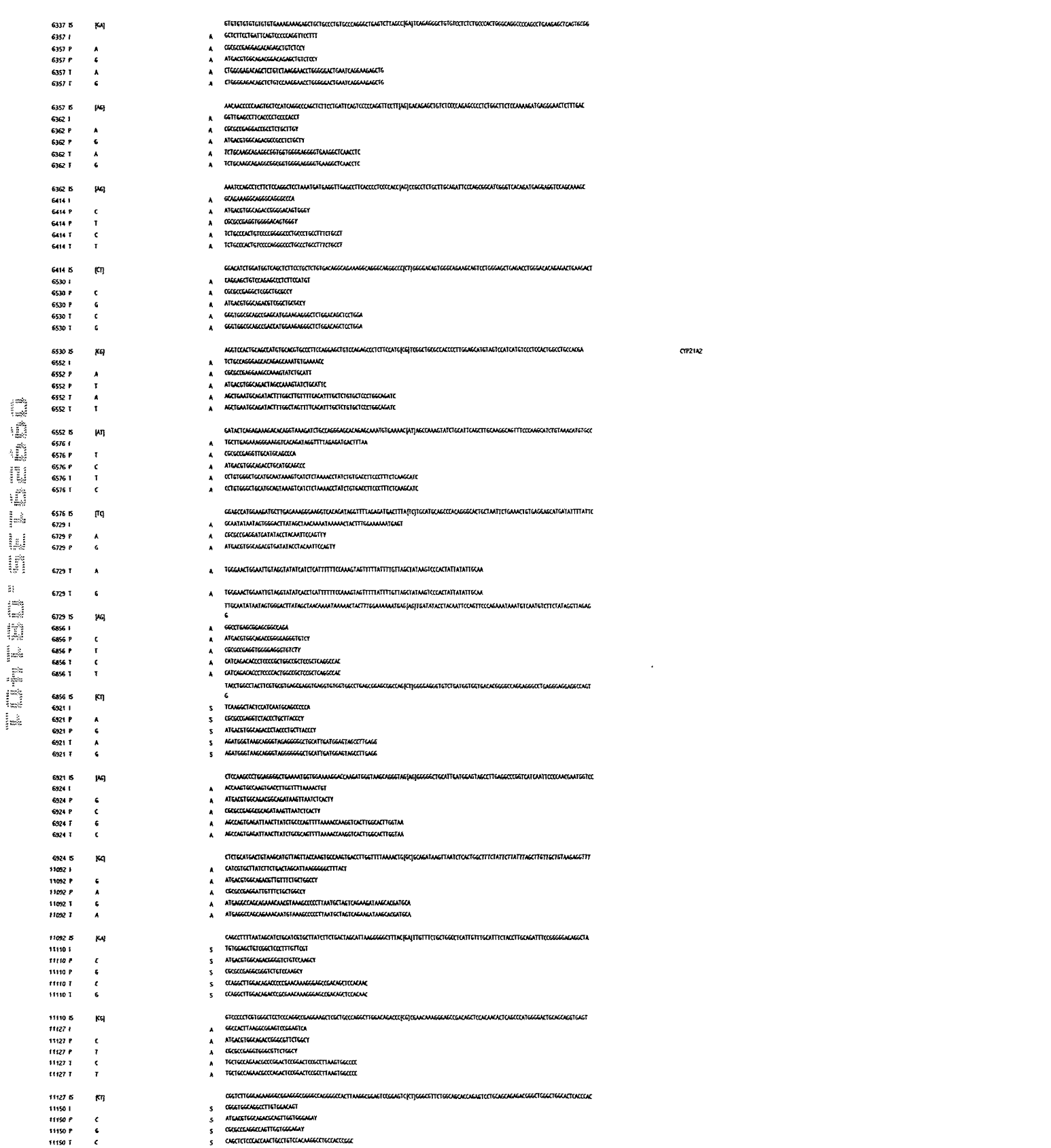

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5713 I GGGCAGGGGGAGGACTGCTGGAA
5713 P C A ATGACGTGGCAGACCCCCTCCCCATCACY
5713 P T A CGCGCCGAGGTCCCTCCCCATCACT
5713 T C A AACGGTGATGGGGAGGGGTCCAGCAGTCCTCCCCCTGCCCAC
5713 T T A AACGGTGATGGGGAGGGATCCAGCAGTCCTCCCCCTGCCCAC
5713 IS [CT] TCAGGCAGGGACAGGGGAACAGGGTTCCTAGGGCCTGGTGGGCAGGGGGAGGACTGCTGGA[CT]CCCTCCCCATCACCGTTTCTTCTGGATAGCCTGGATCTCCTCAGTCCCCAAGATTCACA
5783 I GCCCTGCCTGGAGATGGCAGCCTT
5783 P C S ATGACGTGGCAGACGGTGGTATGGCCTGGY
5783 P G S CGCGCCGAGGCGTGGTATGGGCTGGY
5783 T C S CTATCCAGCCCATACCACAGAGCTCCCATCTCCAGGCAGGGCCC
5783 T G S CTATCCAGCCCATACCACGAGGCTCCCATCTCCAGGCAGGGCCC
5783 IS [CG] CCGATTTCTTGCTGCAGACCCAAATCTCGACTCTCACATCCCTATCCAGCCCATACCAC[CG]AGGCTCCCATCTCCAGGCAGGGCCTGTGGTGGGGCAGGGCCTCCCCCAGATGCCCCTTA
5785 I CACACCACTGGCCTGTAATTATGGGGGAGATTAGAA
5785 P G S ATGACGTGGCAGACCCTCACACACTGCATCY
5785 P A S CGCGCCGAGGTGTCACACACTGCATCAY
5785 T G S TGACTGATGCAGTGTGTGAGGTCTAATCTCCCCCATAATTACAGGCCAGTGGTGTGAG
5785 T A S TGACTGATGCAGTGTGTGACATCTAATCTCCCCCATAATTACAGGCCAGTGGTGTGAG
5785 IS [GA] CACTGGGCCAACATCCAGGAATGAGCTAGGATGGAGGCAGTGACTGATGCAGTGTGTGAC[GA]TCTAATCTCCCCCATAATTACAGGCCAGTGGTGTGAGGTGGAGATAGACTCCTGCCACAG
5810 I GGCCCCCTCCATCCCTGGGTCA
5810 P G S ATGACGTGGCAGACCCCACCACACCAGC
5810 P A S CGCGCCGAGGTCCACCACACCAGC
5810 T G S GTGTGCTGGTGTGGTGGGAGACCCAGGGATGGAGGGGCCCGC
5810 T A S GTGTGCTGGTGTGGTGGAGACCCAGGGATGGAGGGGCCCGC
5810 IS [GA] GCCATCGGGCCCCACCTGGCCAGGACGGGGACAAGGTGGGGCGTGTGCTGGTGTGGTGG[GA]GACCCAGGGATGGAGGGGGCCGCGCCTGCTTCCTGGCCCTGACCCATGCCCTCGGCTCTG
5864 I CCCAGGGTGGGGAAAGCTTCATCTCTACCAAA
5864 P A S CGCGCCGAGGTTCCATCAGCCCTAAAATACY
5864 P G S ATGACGTGGCAGACCTCCATCAGCCCTAAAATACY
5864 T A S AAGAGTATTTTAGGGCTGATGGAATTGGTAGAGATGAAGCTTCCCCACCCTGGGGA
5864 T G S AAGAGTATTTTAGGGCTGATGGAGTTGGTAGAGATGAAGCTTCCCCACCCTGGGGA
ACACAAAGGCTGCACTTATACTGGCCTTGGGATGGAGAAGAGTATTTTAGGGCTGATGGA[AG]TTGGTAGAGATGAAGCTTCCCCACCCTGGGGAAGGCAGGGTGGGGGGTGAGGAGGGAGG
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5881 P T A CGCGCCGAGGTGTCAGCTTGGTCCTC
5881 P G A ATGACGTGGCAGACGGTCAGCTTGGTCCT
5881 T T A CGCAGAGGACCAAGCTGACAGAGGCGCGTGTGCAGGTGAGGAGGC
5881 T G A CGCAGAGGACCAAGCTGACCGAGGCGCGTGTGCAGGTGAGGAGGC
5881 IS [TG] CTCTGGAGTATATCTGCAGCACTGACACCGCAGGTGCCTCCTCAACTGCACACGCGCCTC[TG]GTCAGCTTGGTCCTCTGCGCCAGCTCCTCGCGGGGTGTATATGTCTGGGTAGTGGGTCCTC
5963 I CCTGTAACTTTCCAACAACCTTCAAATGCACAGAAT
5963 P C S ATGACGTGGCAGACGTCTTAGTTATCATTCTCTAGCATY
5963 P T S CGCGCCGAGGATCTTAGTTATCATTCTCTAGCATTY
5963 T C S TTCTAATGCTAGAGAATGATAACTAAGACTTCTGTGCATTTGAAGGTTGTTGGAAAGTTACAGGTT
5963 T T S TTCTAATGCTAGAGAATGATAACTAAGATTTCTGTGCATTTGAAGGTTGTTGGAAAGTTACAGGTT
5963 IS [CT] CACTGGTATTCCTGAGCCTCTCCCAGCTCCACTTCTAATGCTAGAGAATGATAACTAAGA[CT]TTCTGTGCATTTGAAGGTTGTTGGAAAGTTACAGGTTCATTTTAGAAAGAAAGCTGTTCT FMO1
6011 I GGAAGGAGAATTCAAGGCCAGTACAGCAGCT
6011 P T S CGCGCCGAGGATTGCCTTCCAGAAATAATAC
6011 P C S ATGACGTGGCAGACGTTGCCTTTCCAGAAATAATAC
6011 T T S CTGAGTATTATTTCTGGAAAGCAATGCTCCTGTACTGGGCCTTGAATTCTCCTTCCCT
6011 T C S CTGAGTATTATTTCTGGAAAGCAAGCTCCTGTACTGGGCCTTGAATTCTCCTTCCCT
6011 IS [TC] GAGTAATGCAATACGATGAGGACTTTTGCCAGCGGCTGAGTATTATTTCTGGAAAGCCAA[TC]GCTCCTGTACTGGGCCTTGAATTCTCCTTCCCTGCTGAACTCCAGGTTGTTCTATTCAAC
6102 I CTGAAAGCGGCGGTGAGGGTTCGGT
6102 P G S CGCGCCGAGGCAAGCAACACAGCTCTAG
6102 P C S ATGACGTGGCAGACGAAGCAACACAGCTCTAG
6102 T G S GGGGCTAGAGCTGTGTTGCTCCCGAACCTCACCGCCGCTTTCAGGG
6102 T C S GGGGCTAGAGCTGTGTTGCTCCCGAACCTCACCGCCGCTTTCAGGG
6102 IS [GC] CAAATAGAGCTACTCTTCCTAGGGAATTCAGCAAGTGTGGGGCTAGAGCTGTGTTGCTT[GC]CCGAACCTCACCGCCGCTTTCAGGGGTTAGAGATGCTAATTCATCCCTTCCCACCTCCT
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6175 P C A ATGACGTGGCAGACCGGTGGTCCTGTTGGY
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6175 T C A GCATCCAACAGGACCACCGAGAGGAGTGGTTTGTGTGAGCTGTCATGGCTG
6175 IS [TC] AGTGATCACAGGGCCTCCAGAGGTGGTCCAGCCATGACAGCTCACACAAACCACTCCTCT[TC]GGTGGTCCTGTTGCATGCTCAGGATTATGAGAAGGTTAAATATTATTTAAAAATCTCTGA
6230 I AGGCGTATCACCAGGGTGGCACATGTT
6230 P T S CGCGCCGAGGATTTCTCGTCAAACCCAGY
6230 P C S ATGACGTGGCAGACGTTTCTCGTCAAACCCAGY
6230 T T S GTGTCTGGGTTTGACGACAAATACATGTGCCACCCTGGTGATAGCCTCC
6230 T C S GTGTCTGGGTTTGACGACAAACACATGTGCCACCCTGGTGATAGCCTCC
6230 IS [TC] TCCCGGCCATGTGACTCACAGCTCCTCTCATTTTCATGAGTGTCTGGGTTTGACGACAAA[TC]ACATGTGCCACCCTGGTGATACGCCTCCCCAGCGAGAGGTGGCCGGGCTTATTTCAGTTGG
6286 I TGTGAGTGTCTCAGGGATCCAGACATGGGGT
6286 P G A ATGACGTGGCAGACGTATGGCAGGTGCCT
6286 P A A CGCGCCGAGGATATGGGAGGTGCCTC
6286 T G A ATCAGAGGCACCTCCCATACCCCATGTCTGGATCCCTGAGACACTCACATC
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6286 IS [GA] TTCTTCCTCCTCCTGGTGGCAGCTCCCAGATGTCAGTGTCTCAGGGATCCAGACATGGGG[GA]TATGGCAGGTGCCTCTGATCCCAGGGCTCACTGTGGGTCTCTCTGTTCACAGGGTCCTG
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6337 I GGGCACACAGGACACAGCCCTCTGAA
6337 P G S ATGACGTGGCAGACCGGCTAAGACTCAGCCY
6337 P A S CGCGCCGAGGTGGCTAAGACTCAGCCY
6337 T G S CCAGGGCTGAGTCTTAGCCATCAGAGGGCTGTGTCCTCTCTGCCCAC
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FIGURE 129F



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FIGURE 129F

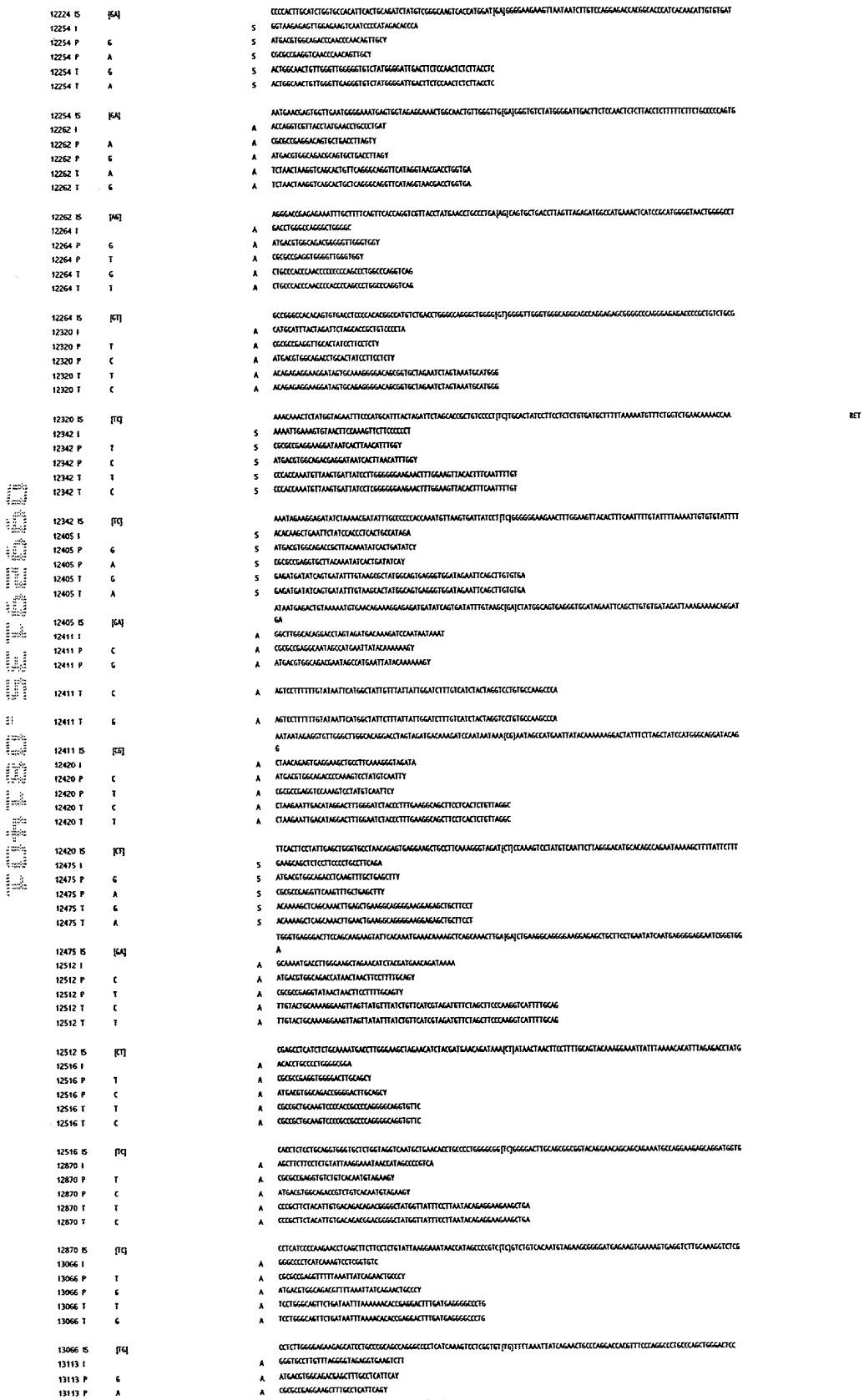


FIGURE 129F

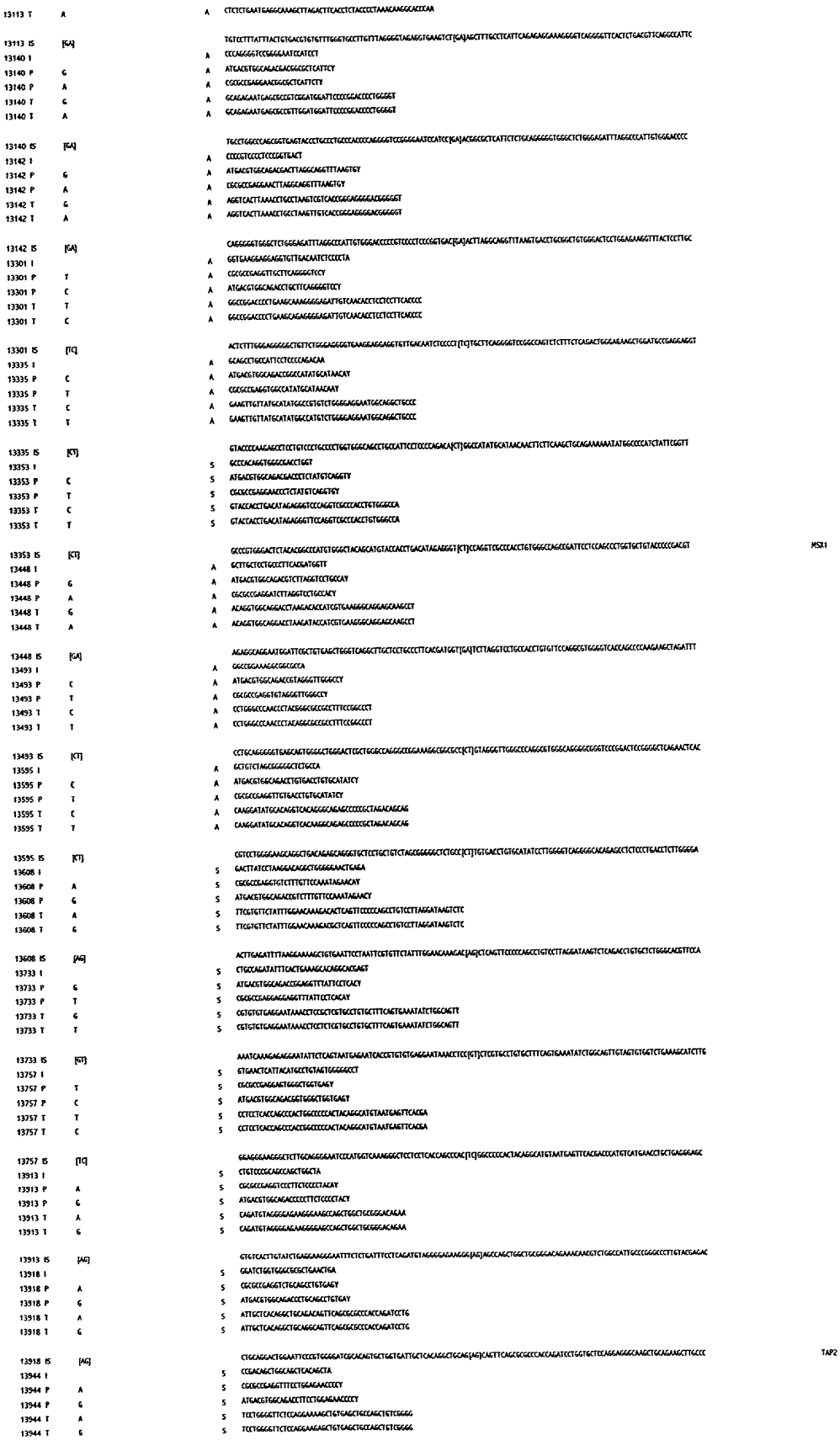
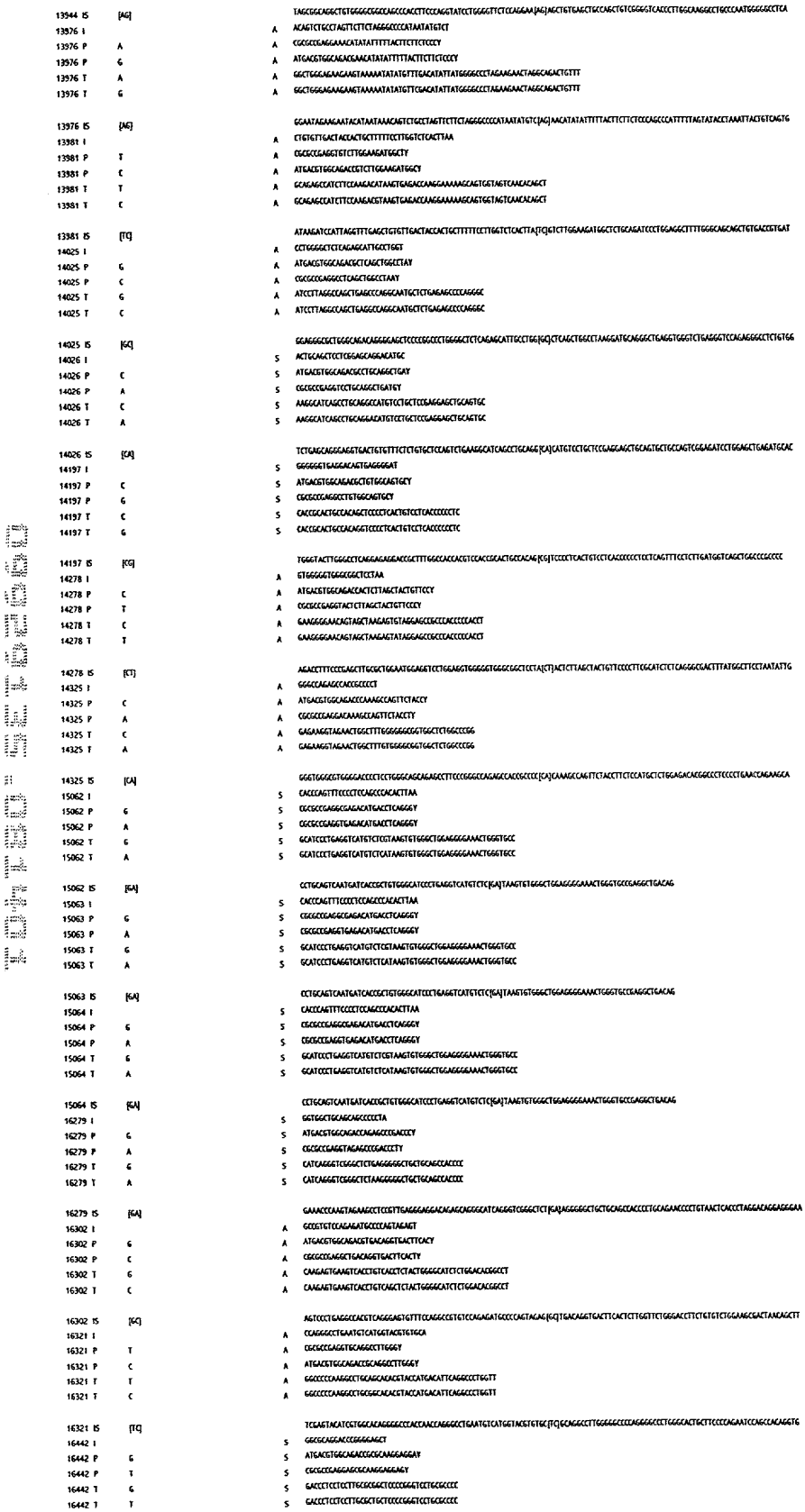


FIGURE 129F



Applicant's Docket No. 21592-0001CP1
Client Reference No. 2000-0001CP1

FIGURE 129F

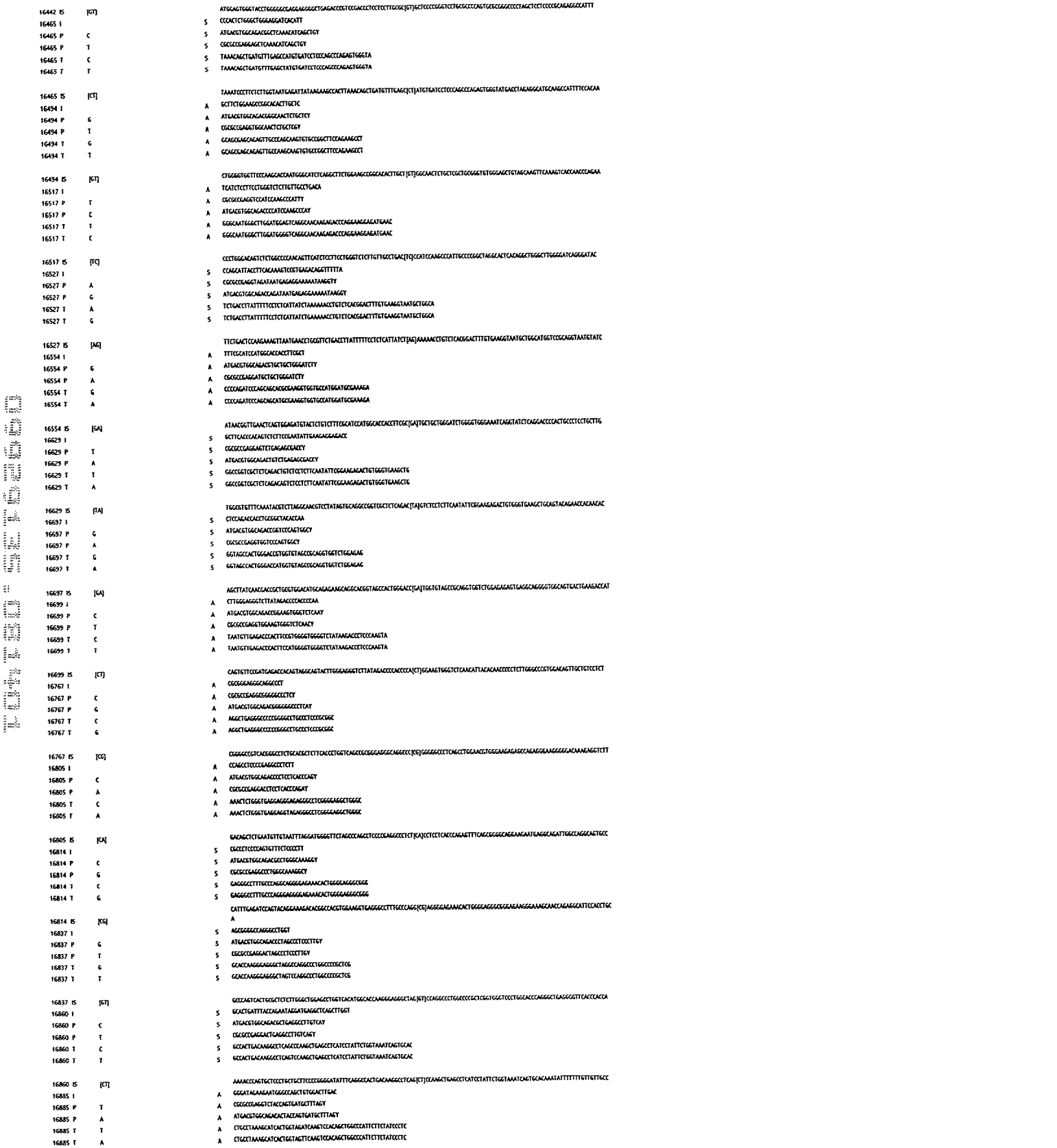

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FIGURE 129F

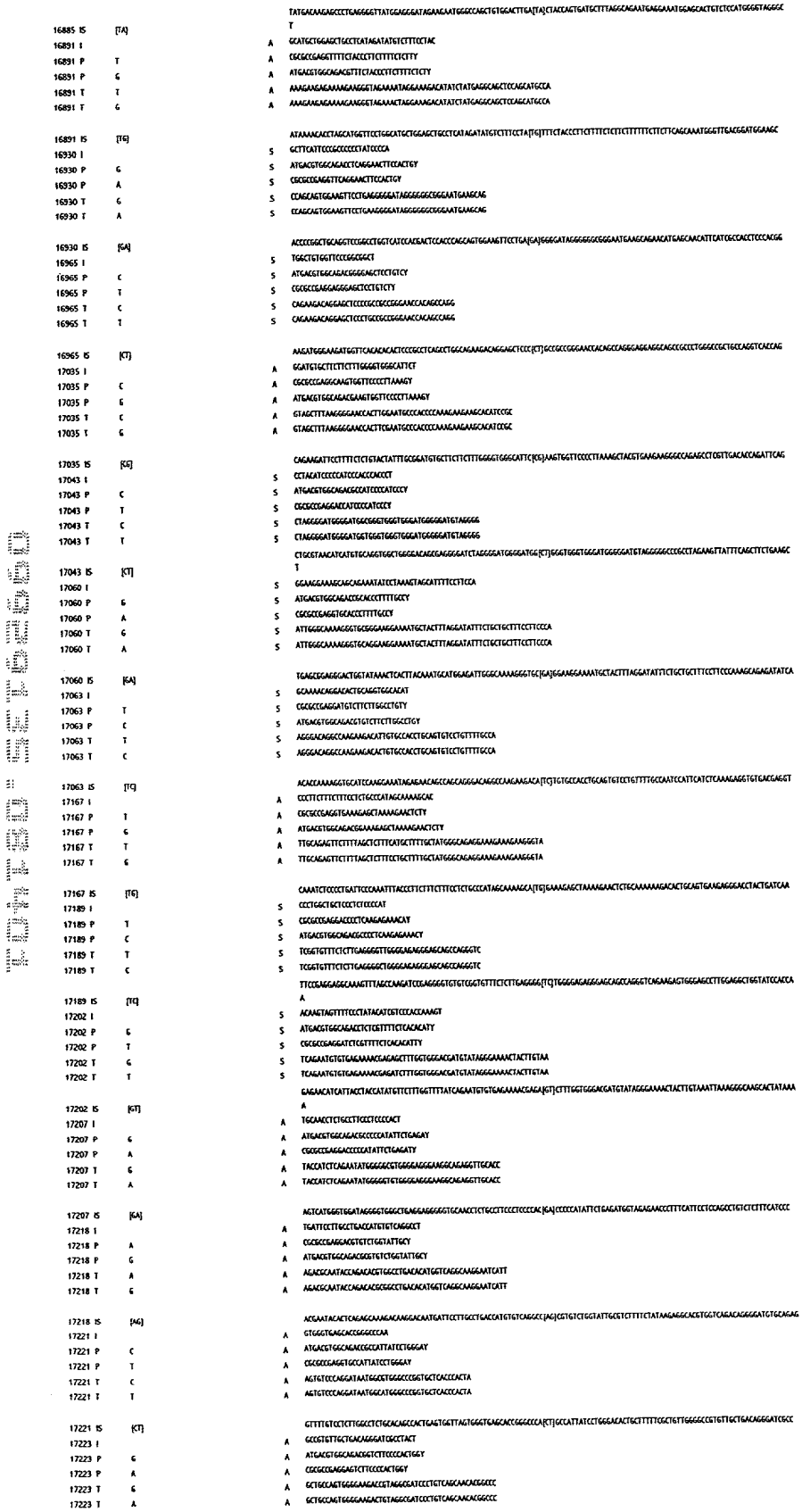
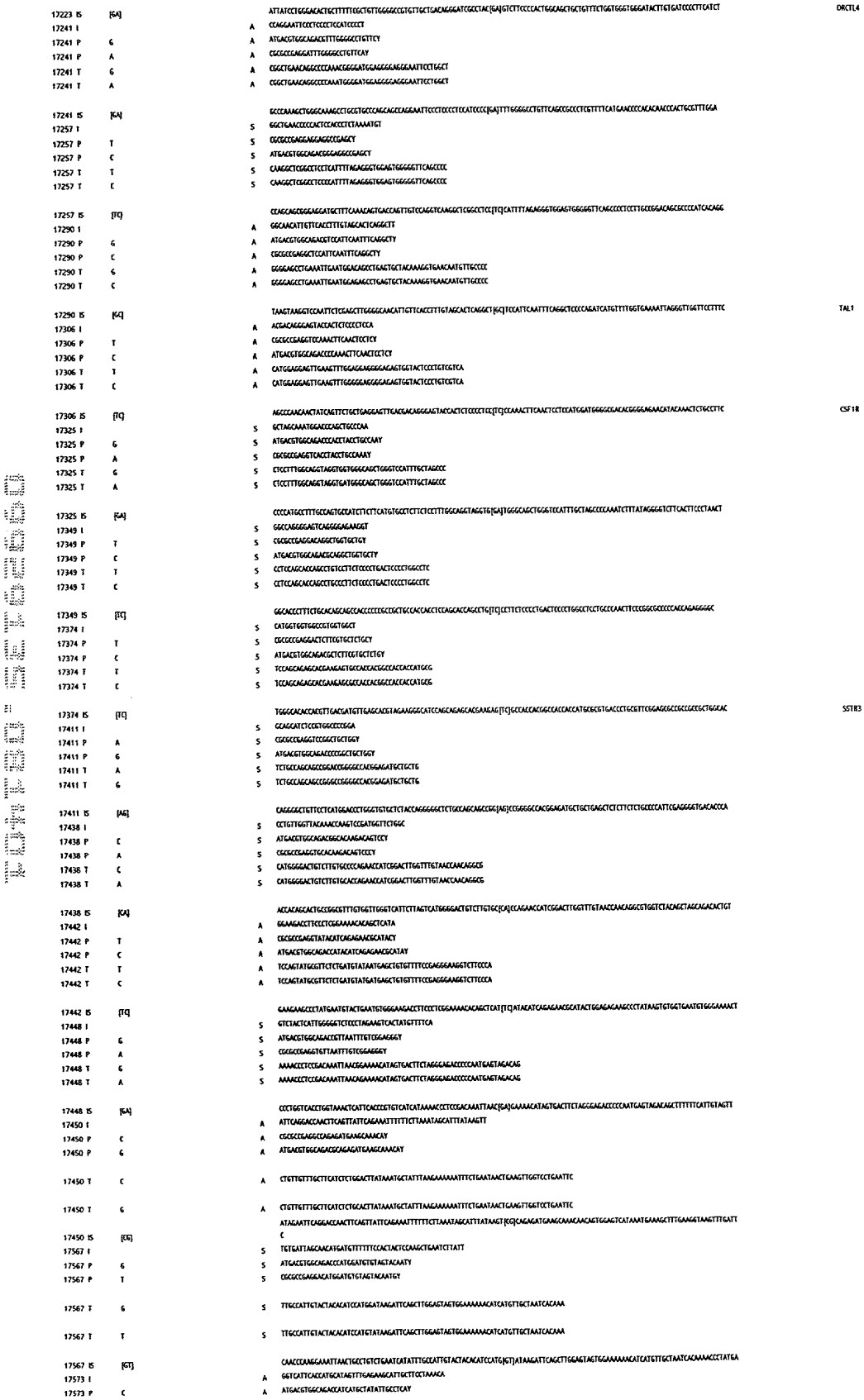


Exhibit 2091
Illumina, Inc. et al. v. Natera, Inc.
IPR2022-00313

FIGURE 129F



Sequence Listing Page 1 of 1 Application No: 10/542,854 Date: 2009-06-25 Time: 15:26:36

FIGURE 129F

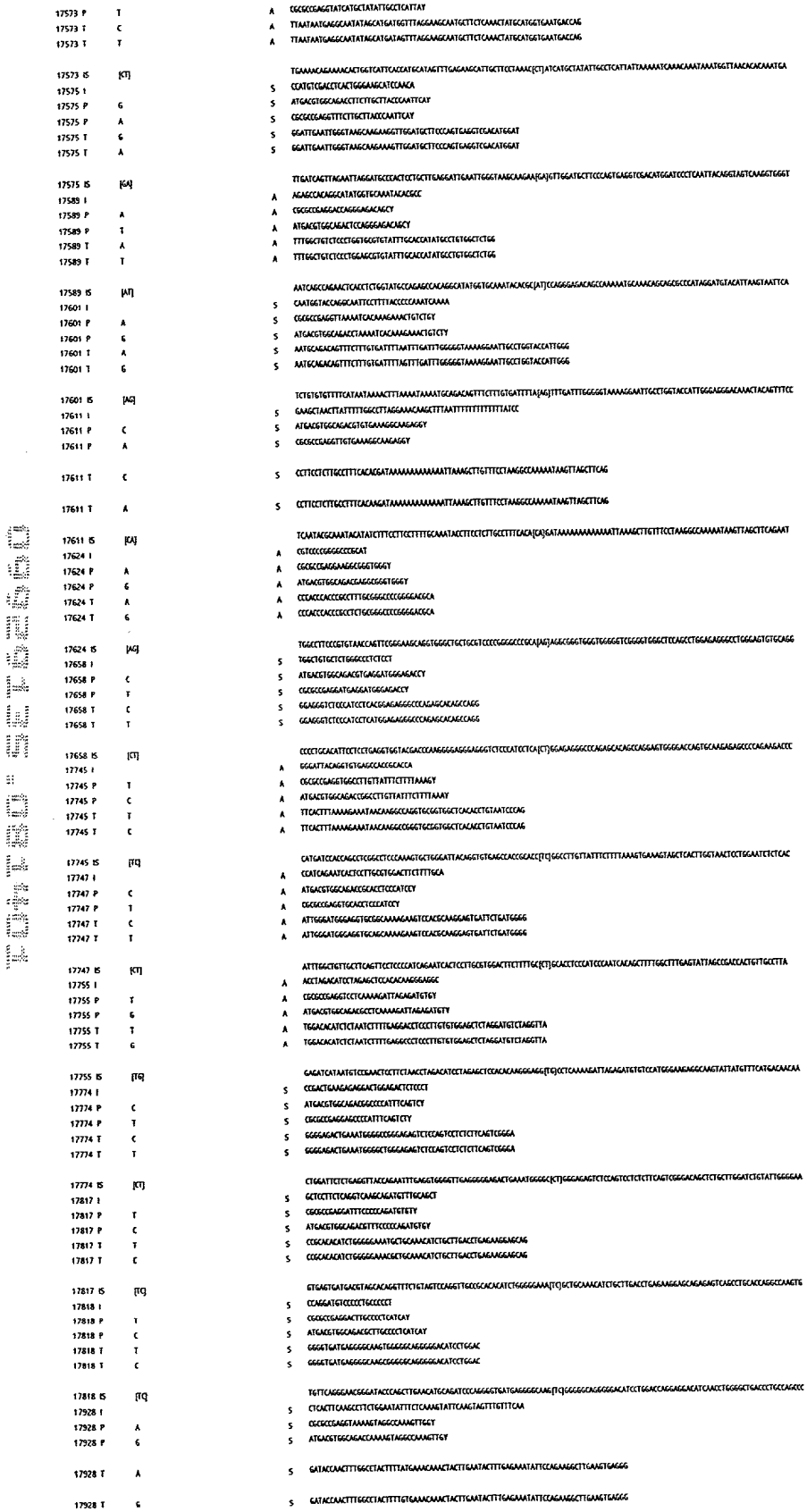
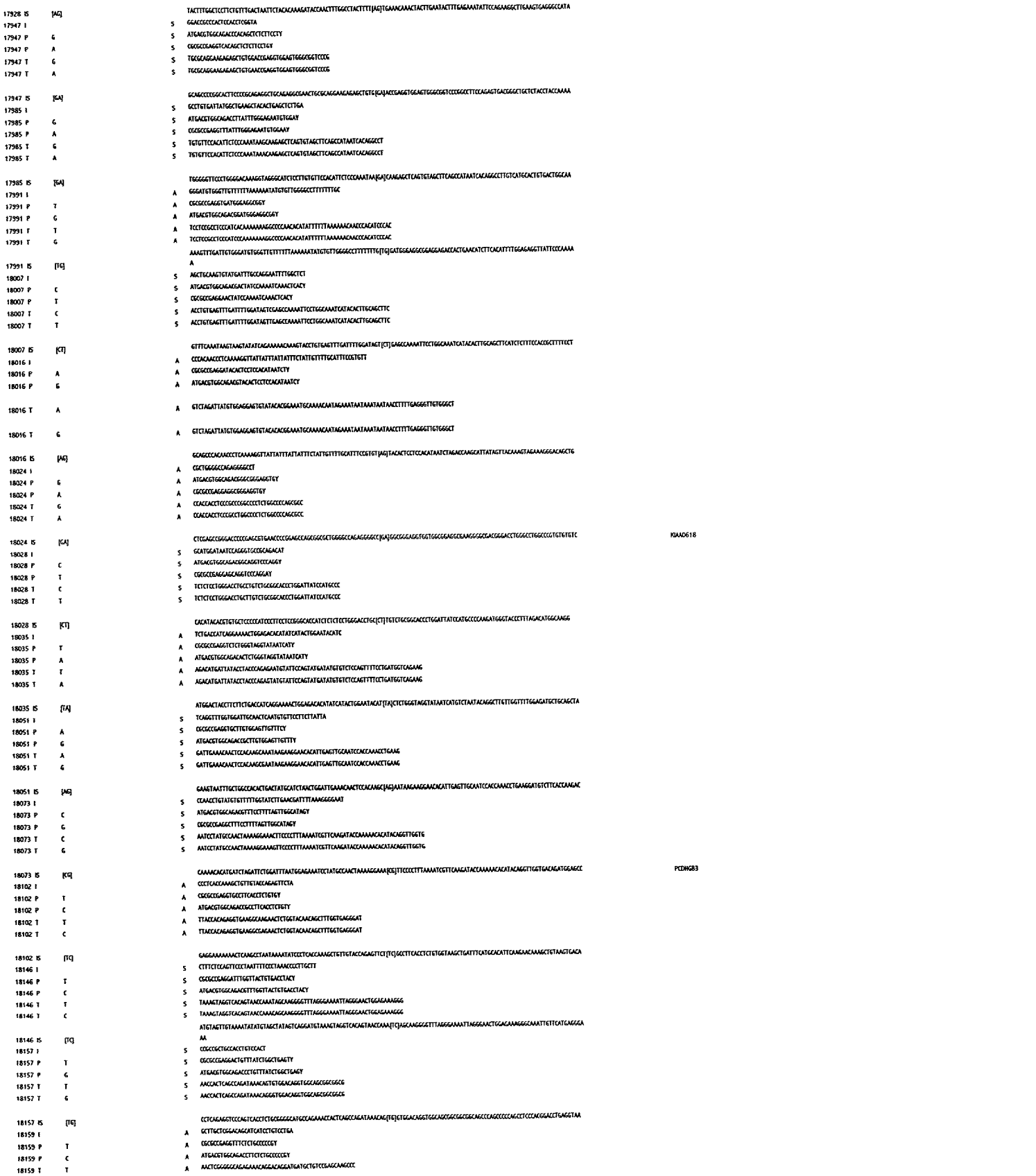

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FIGURE 129F



UNPUBLISHED PCT/US2002/033830

FIGURE 129F

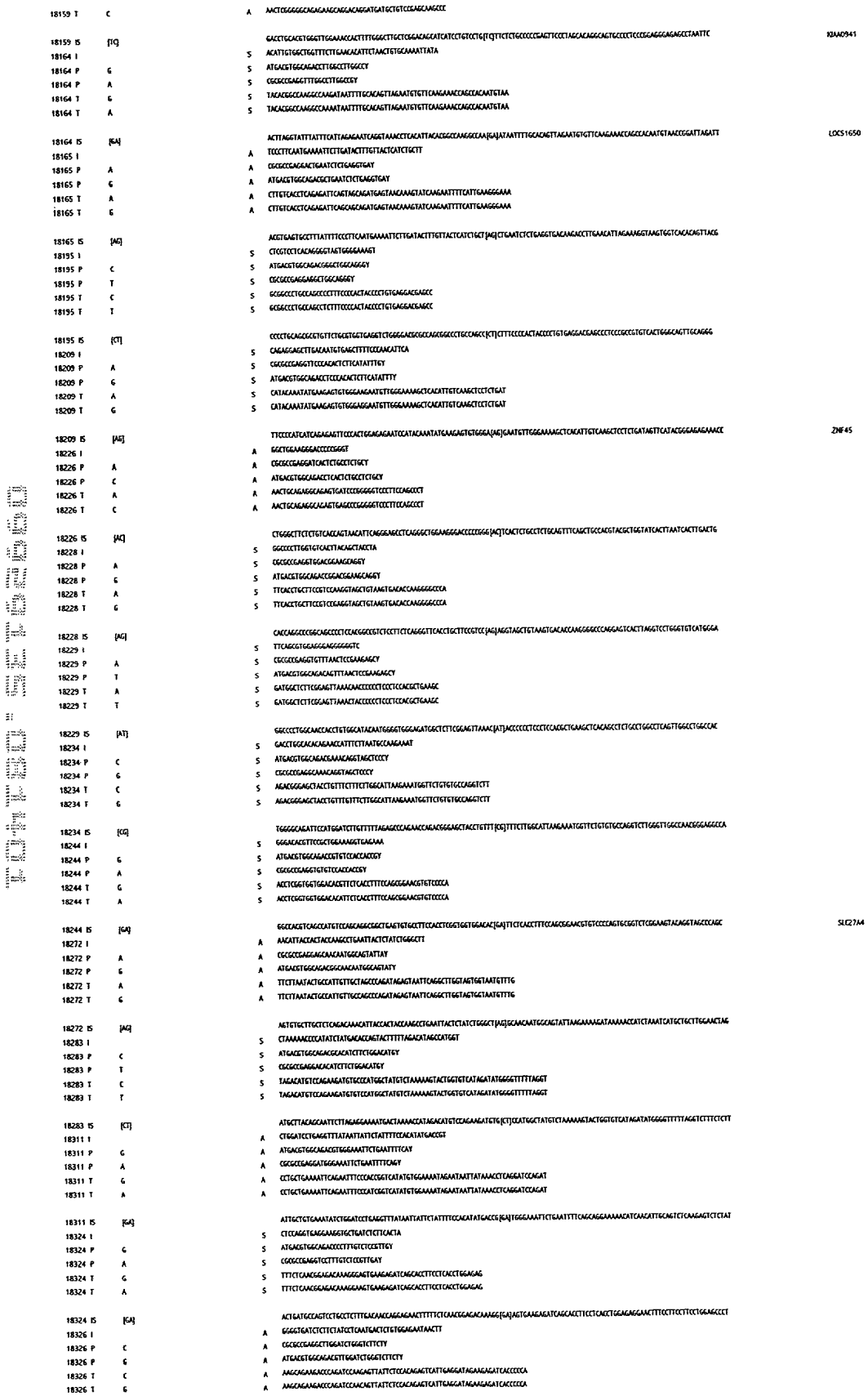
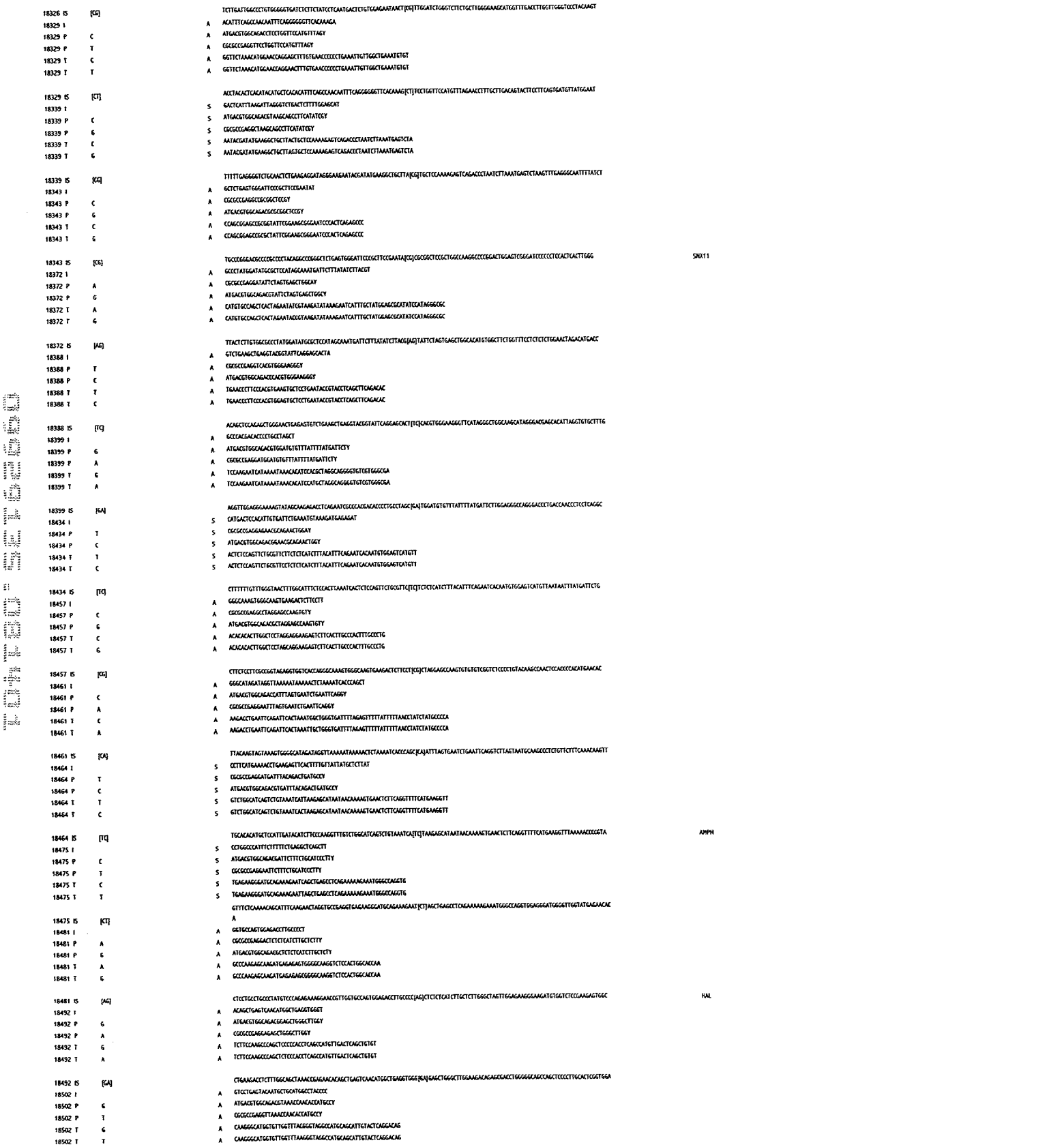

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18226 IS [AC] CTGGGCTTCTCTGTCACCAGTAACATTCAGGGAGCCTCAGGGCTGGAAGGGACCCCCGGG[AC]TCACTCTGCCTCTGCAGTTTCAGCTGCCACGTACGCTGGTATCACTTAATCACTTGACTG
18228 I S GGCCCCTTGGTGTCACTTACAGCTACCTA
18228 P A S CGCGCCGAGGTGGACGGAAGCAGGY
18228 P G S ATGACGTGGCAGACCGGACGGAAGCAGGY
18228 T A S TTCACCTGCTTCCGTCCAAGGTAGCTGTAAGTGACACCAAGGGGCCCA
18228 T G S TTCACCTGCTTCCGTCCAGGGTAGCTGTAAGTGACACCAAGGGGCCCA
18228 IS [AG] CACCAGGCCCGGCAGCCCCTCCACGGCCGTCTCCTTCTCAGGGTTCACCTGCTTCCGTCC[AG]AGGTAGCTGTAAGTGACACCAAGGGGCCCAGGAGTCACTTAGGTCCTGGGTGTCATGGGA
18229 I S TTCAGCGTGGAGGGAGGGGGGTC
18229 P A S CGCGCCGAGGTGTTTAACTCCGAAGAGCY
18229 P T S ATGACGTGGCAGACAGTTTAACTCCGAAGAGCY
18229 T A S GATGGCTCTTCGGAGTTAAACAACCCCCTCCCTCCACGCTGAAGC
18229 T T S GATGGCTCTTCGGAGTTAAACTACCCCCTCCCTCCACGCTGAAGC
18229 IS [AT] GGCCCCTGGCAACCACCTGTGGCATACAATGGGGTGGGAGATGGCTCTTCGGAGTTAAAC[AT]ACCCCCCTCCCTCCACGCTGAAGCTCACAGCCTCTGCCTGGCCTCAGTTGGCCTGGCCAC
18234 I S GACCTGGCACACAGAACATTTCTTAATGCCAAGAAAT
18234 P C S ATGACGTGGCAGACGAAACAGGTAGCTCCCY
18234 P G S CGCGCCGAGGCAAACAGGTAGCTCCCY
18234 T C S AGACGGGAGCTACCTGTTTCTTTCTTGGCATTAAGAAATGGTTCTGTGTGCCAGGTCTT
18234 T G S AGACGGGAGCTACCTGTTTGTTTCTTGGCATTAAGAAATGGTTCTGTGTGCCAGGTCTT
18234 IS [CG] TGGGGCAGATTCCATGGATCTTGTTTTTAGAGCCAGAACCAGACGGGAGCTACCTGTTT[CG]TTTCTTGGCATTAAGAAATGGTTCTGTGTGCCAGGTCTTGGGTTGGCCAACGGGAGGCCA
18244 I S GGGACACGTTCCGCTGGAAAGGTGAGAA
18244 P G S ATGACGTGGCAGACCGTGTCCACCACCGY
18244 P A S CGCGCCGAGGTGTGTCCACCACCGY
18244 T G S ACCTCGGTGGTGGACACGTTCTCACCTTTCCAGCGGAACGTGTCCCCA
18244 T A S ACCTCGGTGGTGGACACATTCTCACCTTTCCAGCGGAACGTGTCCCCA
18244 IS [GA] GGCCACGTCAGCCATGTCCAGCAGGCGGCTGAGTGTGCCTTCCACCTCGGTGGTGGACAC[GA]TTCTCACCTTTCCAGCGGAACGTGTCCCCAGTGCGGTCTCCGAAGTACAGGTAGCCCAGC SLC27A4
18272 I A AACATTACCACTACCAAGCCTGAATTACTCTATCTGGGCTT
18272 P A A CGCGCCGAGGAGCAACAATGGCAGTATTAY
18272 P G A ATGACGTGGCAGACGGCAACAATGGCAGTATY
18272 T A A TTCTTAATACTGCCATTGTTGCTAGCCCAGATAGAGTAATTCAGGCTTGGTAGTGGTAATGTTTG
18272 T G A TTCTTAATACTGCCATTGTTGCTAGCCCAGATAGAGTAATTCAGGCTTGGTAGTGGTAATGTTTG
18272 IS [AG] AGTGTGCTTGCTCTCAGACAAACATTACCACTACCAAGCCTGAATTACTCTATCTGGGCT[AG]GCAACAATGGCAGTATTAAGAAAAGATAAAAACCATCTAAATCATGCTGCTTGGAACTAG
18283 I S CTAAAAACCCCATATCTATGACACCAGTACTTTTTAGACATAGCCATGGT
18283 P C S ATGACGTGGCAGACGCACATCTTCTGGACATGY
18283 P T S CGCGCCGAGGACACATCTTCTGGACATGY
18283 T C S TAGACATGTCCAGAAGATGTGCCCATGGCTATGTCTAAAAAGTACTGGTGTCATAGATATGGGGTTTTTAGGT
18283 T T S TAGACATGTCCAGAAGATGTGTCCATGGCTATGTCTAAAAAGTACTGGTGTCATAGATATGGGGTTTTTAGGT
18283 IS [CT] ATGCTTACAGCAATTCTTAGAGGAAAATGACTAAAACCATAGACATGTGCCAGAAGATGTG[CT]CCATGGCTATGTCTAAAAAGTACTGGTGTCATAGATATGGGGTTTTTAGGTCTTTCTCTT
18311 I A CTGGATCCTGAGGTTTATAATTATTCTATTTTCCACATATGACCGT
18311 P G A ATGACGTGGCAGACGTGGGAAATTCTGAATTTTCAY
18311 P A A CGCGCCGAGGATGGGAAATTCTGAATTTTCAGY
18311 T G A CCTGCTGAAAATTCAGAATTTCCCACCGGTCATATGTGGAAAATAGAATAATTATAAACCTCAGGATCCAGAT
18311 T A A CCTGCTGAAAATTCAGAATTTCCCATCGGTCATATGTGGAAAATAGAATAATTATAAACCTCAGGATCCAGAT
18311 IS [GA] ATTGCTGTGAAATATCTGGATCCTGAGGTTTATAATTATTCTATTTTCCACATATGACCG[GA]TGGGAAATTCTGAATTTTCAGCAGGAAAAACATCAACATTGCAGTCTCAAGAGTCTCTAT
18324 I S CTCCAGGTGAGGAAGGTGCTGATCTCTTCACTA
18324 P G S ATGACGTGGCAGACCCTTGTCTCCGTTGY
18324 P A S CGGCCGAGGTCCTTTGTCTCCGTTGAY
18324 T G S TTTCTCAACGGAGACAAAGGAGTGAAGACATCAGCACCTTCCTCACCTGGAGAG
18324 T A S TTTCTCAACGGAGACAAAGGAAGTGAAGACATCAGCACCTTCCTCACCTGGAGAG
18324 IS [GA] ACTGATGCCAGTCCTGCTCTTTGACAACCAGGAGAACTTTTTCTCAACGGAGACAAAGG[GA]AGTGAAGACATCAGCACCTTCCTCACCTGGAGAGGAACTTTCCTTCCTTCCTGGAGCCCT
18326 I A GGGGTGATCTCTTCTATCCTCAATGACTCTGTGGAGAATAACTT
18326 P C A CGCGCCGAGGCTTGGATCTGGGTCTTCTY
18326 P G A ATGACGTGGCAGACGTTGGATCTGGGTCTTCTY
18326 T C A AAGCAGAAGAGCCAGATCCAAGAGTTATTCTCCACAGAGTCATTGAGGATAGAAGAGATCACCCCCA
18326 T G A AAGCAGAAGAGCCAGATCCAACAGTTATTCTCCACAGAGTCATTGAGGATAGAAGAGATCACCCCCA

FIGURE 129F



Attorney Docket No. 10466-001-999

FIGURE 129F

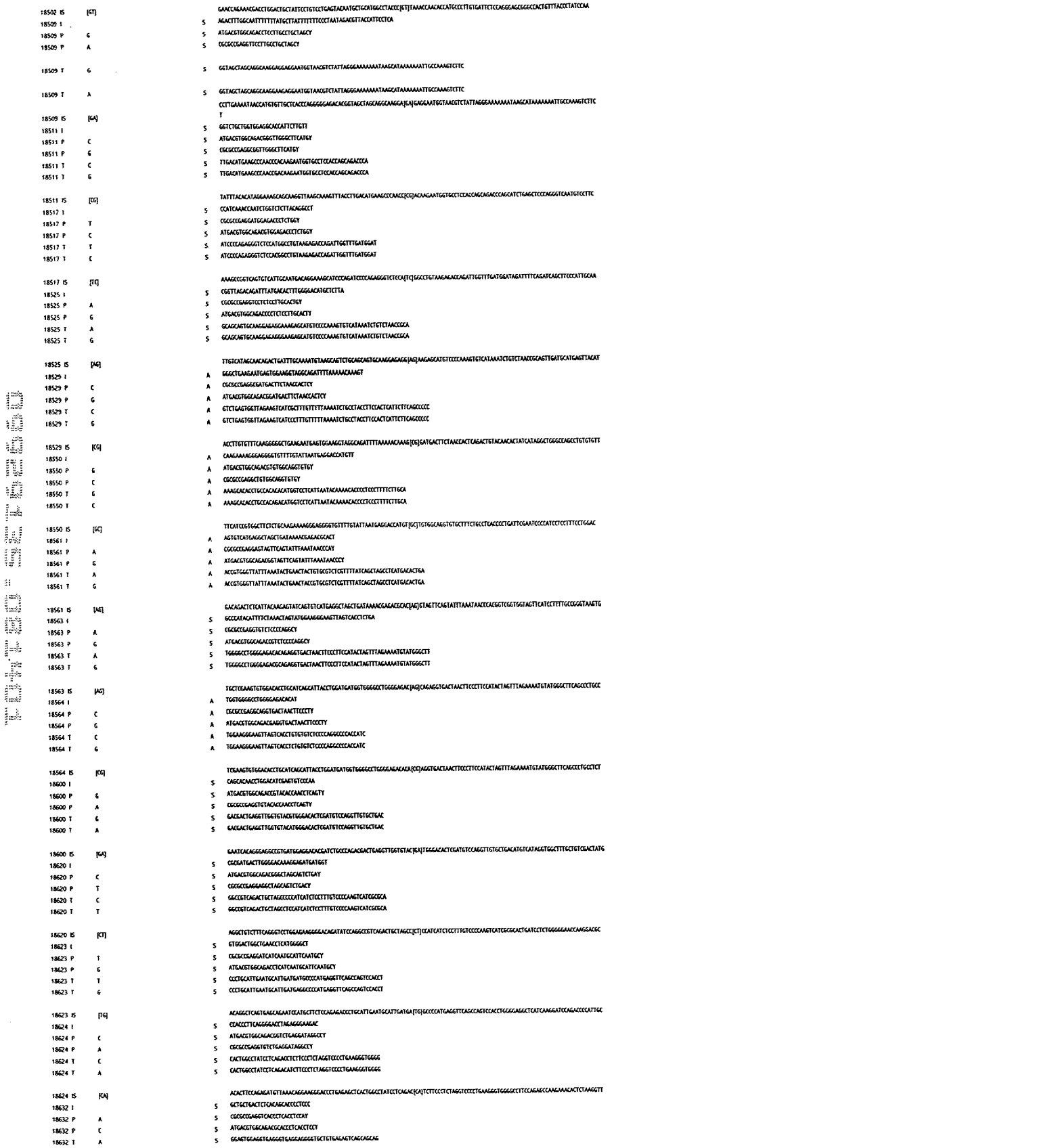

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18509 I
S AGACTTTGGCAATTTTTTTATGCTATTTTTTCCCTAATAGACGTTACCATTCCTCA
18509 P G
S ATGACGTGGCAGACCTCCTTGCCTGCTAGCY
18509 P A
S CGCGCCCAGGTTCCTTGCCTGCTAGCY
18509 T G
S GGTAGCTAGCAGGCAAGGAGGAGGAATGGTAACGTCTATTAGGGAAAAAAATAAGCATAAAAAAATTGCCAAAGTCTTC
18509 T A
S GGTAGCTAGCAGGCAAGGAGGAGGAATGGTAACGTCTATTAGGGAAAAAAATAAGCATAAAAAAATTGCCAAAGTCTTC
18509 IS [GA]
CCTTGAAAATAACCATGTGTTGCTCACCCAGGGGGAGACACGGTAGCTAGCAGGCAAGGA[GA]GAGGAATGGTAACGTCTATTAGGGAAAAAAATAAGCATAAAAAAATTGCCAAAGTCTTC
T
18511 I
S GGTCTGCTGGTGGAGGCACCATTCTTGTT
18511 P C
S ATGACGTGGCAGACGGGTTGGGCTTCATGY
18511 P G
S CGCGCCCAGGCGGTTGGGCTTCATGY
18511 T C
S TTGACATGAAGCCCAACCCACAAGAATGGTGCCTCCACCAGCAGACCCA
18511 T G
S TTGACATGAAGCCCAACCGACAAGAATGGTGCCTCCACCAGCAGACCCA
18511 IS [CG]
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18517 I
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18517 P T
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18517 P C
S ATGACGTGGCAGACGTGGAGACCCTCTGGY
18517 T T
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18517 T C
S ATCCCCAGAGGGTCTCCACGGCCTGTAAGAGACCAGATTGGTTTGATGGAT
18517 IS [TC]
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18525 I
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18525 P A
S CGCGCCGAGGTCCTCTCCTTGCACTGY
18525 P G
S ATGACGTGGCAGACCCCTCTCCTTGCACTY
18525 T A
S GCAGCAGTGCAAGGAGAGGAAAGAGCATGTCCCCAAAGTGTCATAAATCTGTCTAACCGCA
18525 T G
S GCAGCAGTGCAAGGAGAGGGAAGAGCATGTCCCCAAAGTGTCATAAATCTGTCTAACCGCA
18525 IS [AG]
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18529 I
A GGGCTGAAGAATGAGTGGAAGGTAGGCAGATTTTAAAAACAAAGT
18529 P C
A CGCGCCGAGGCGATGACTTCTAACCACTCY
18529 P G
A ATGAGTGGCAGACGGATGACTTCTAACCACTCY
18529 T C
A GTCTGAGTGGTTAGAAGTCATCGCTTTGTTTTTAAAATCTGCCTACCTTCCACTCATTCTTCAGCCCCC
18529 T G
A GTCTGAGTGGTTAGAAGTCATCCCTTTGTTTTTAAAATCTGCCTACCTTCCACTCATTCTTCAGCCCCC
18529 IS [CG]
ACCTTGTGTTTCAAGGGGGCTGAAGAATGAGTGGAAGGTAGGCAGATTTTAAAAACAAAG[CG]GATGACTTCTAACCACTCAGACTGTACAACACTATCATAGGCTGGGCCAGCCTGTGTGTT
18550 I
A CAAGAAAAGGGAGGGGTGTTTTGTATTAATGAGGACCATGTT
18550 P G
A ATGACGTGGCAGACGTGTGGCAGGTGTGY
18550 P C
A CGCGCCGAGGCTGTGGCAGGTGTGY
18550 T G
A AAAGCACACCTGCCACAGACATGGTCCTCATTAATACAAAACACCCCTCCCTTTTCTTGCA
18550 T C
A AAAGCACACCTGCCACAGACATGGTCCTCATTAATACAAAACACCCCTCCCTTTTCTTGCA
18550 IS [GC]
TTCATCCGTGGCTTCTCTGCAAGAAAAGGCAGGGGTGTTTTGTATTAATGAGGACCATGT[GC]TGTGGCAGGTGTGCTTTCTGCCTCACCCCTGATTCGAATCCCCATCCTCCTTTCCTGGAC
18561 I
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18561 P A
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18561 P G
A ATGACGTGGCAGACGGTAGTTCAGTATTTAAATAACCCY
18561 T A
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18561 T G
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18561 IS [AG]
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18563 I
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18563 P A
S CGCGCCGAGGTGTCTCCCCAGGCY
18563 P G
S ATGACGTGGCAGACCGTCTCCCCAGGCY
18563 T A
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18563 T G
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18600 I
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18600 P G
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18600 P A
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18600 T G
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18600 T A
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18600 IS [GA]
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18620 I
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18620 P C
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18620 P T
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18620 T C
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18620 T T
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18620 IS [CT]
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18623 I
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18623 P T
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18623 P G
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18623 T T
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18623 T G
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18623 IS [TG]
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18624 I
S CCACCCTTCAGGGGACCTAGAGGGAAGAC
18624 P C
S ATGACCTGGCAGACGGTCTCAGGATAGGCCY
18624 P A
S CGCGCCGAGGTGTCTCAGGATAGGCCY
18624 T C
S CACTGGCCTATCCTCAGACCTCTTCCCTCTAGGTCCCCTGAAGGGTGGGG
18624 T A
S CACTGGCCTATCCTCAGACATCTTCCCTCTAGGTCCCCTGAAGGGTGGGG
18624 IS [CA]
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18632 I
S GCTGCTGACTCTCACAGCACCCCTCCC
18632 P A
S CGCGCCGAGGTCACCCTCACCTCCAY
18632 P C
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18632 T A
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FIGURE 129F

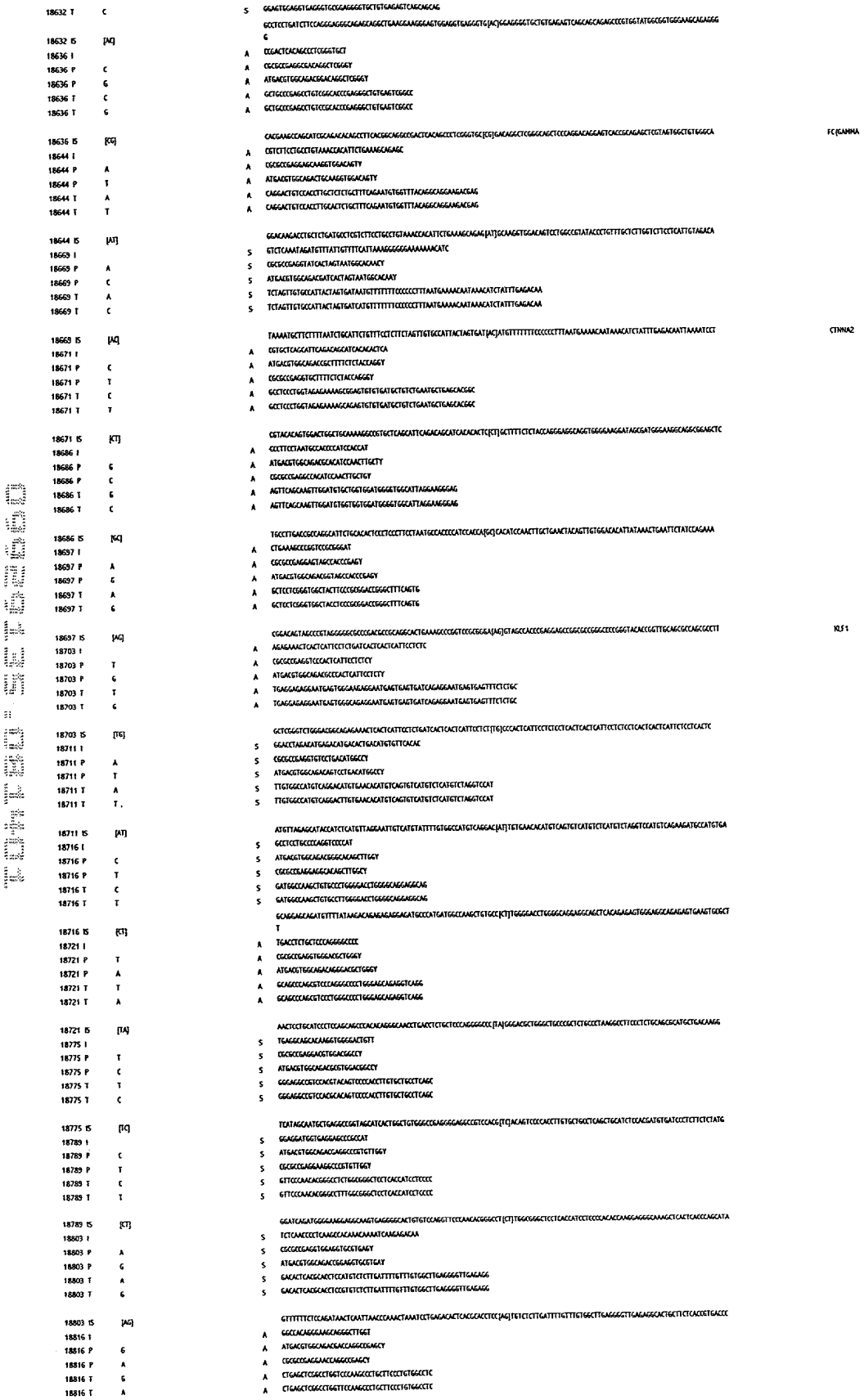


FIGURE 129F

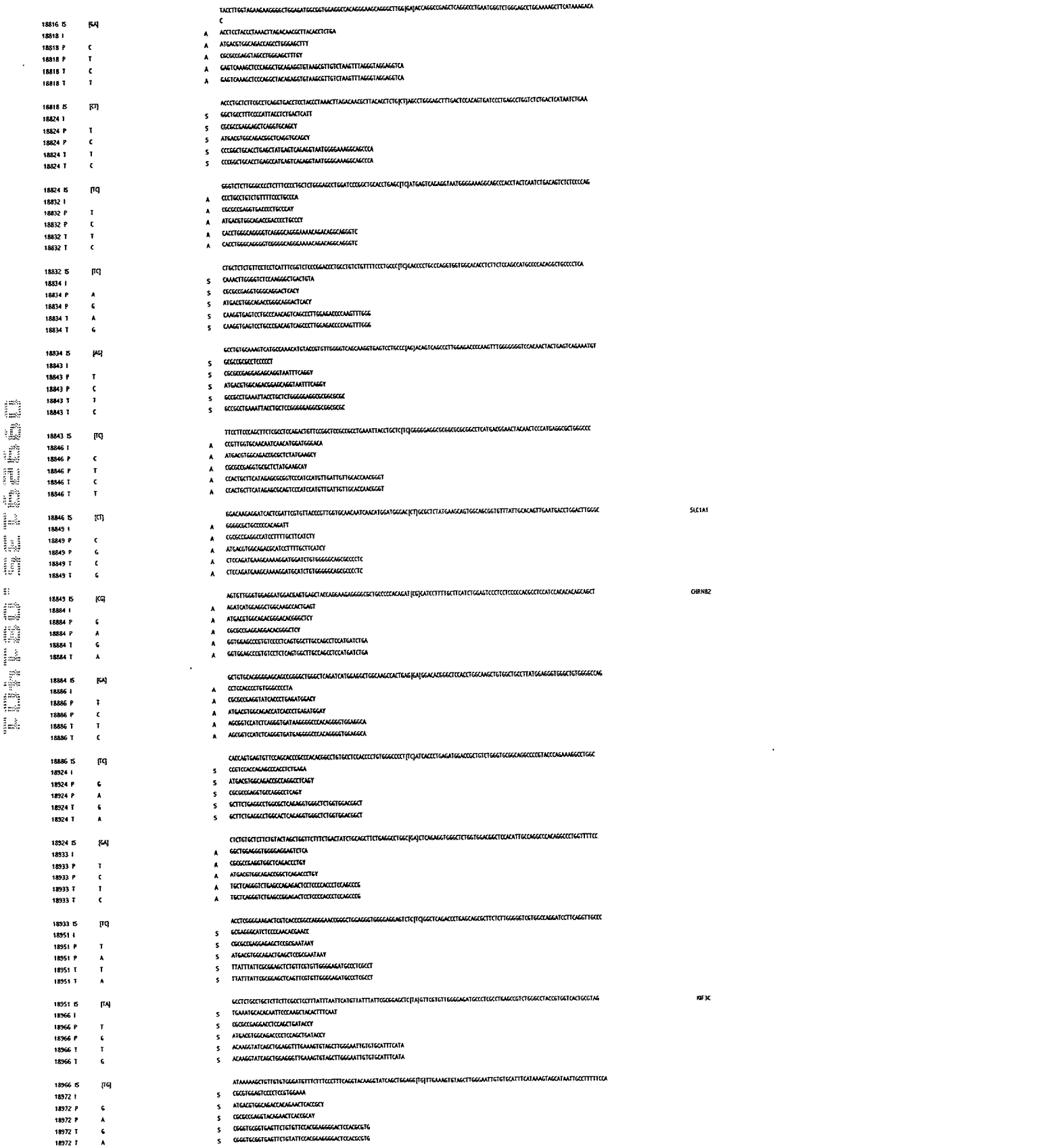


FIGURE 129F

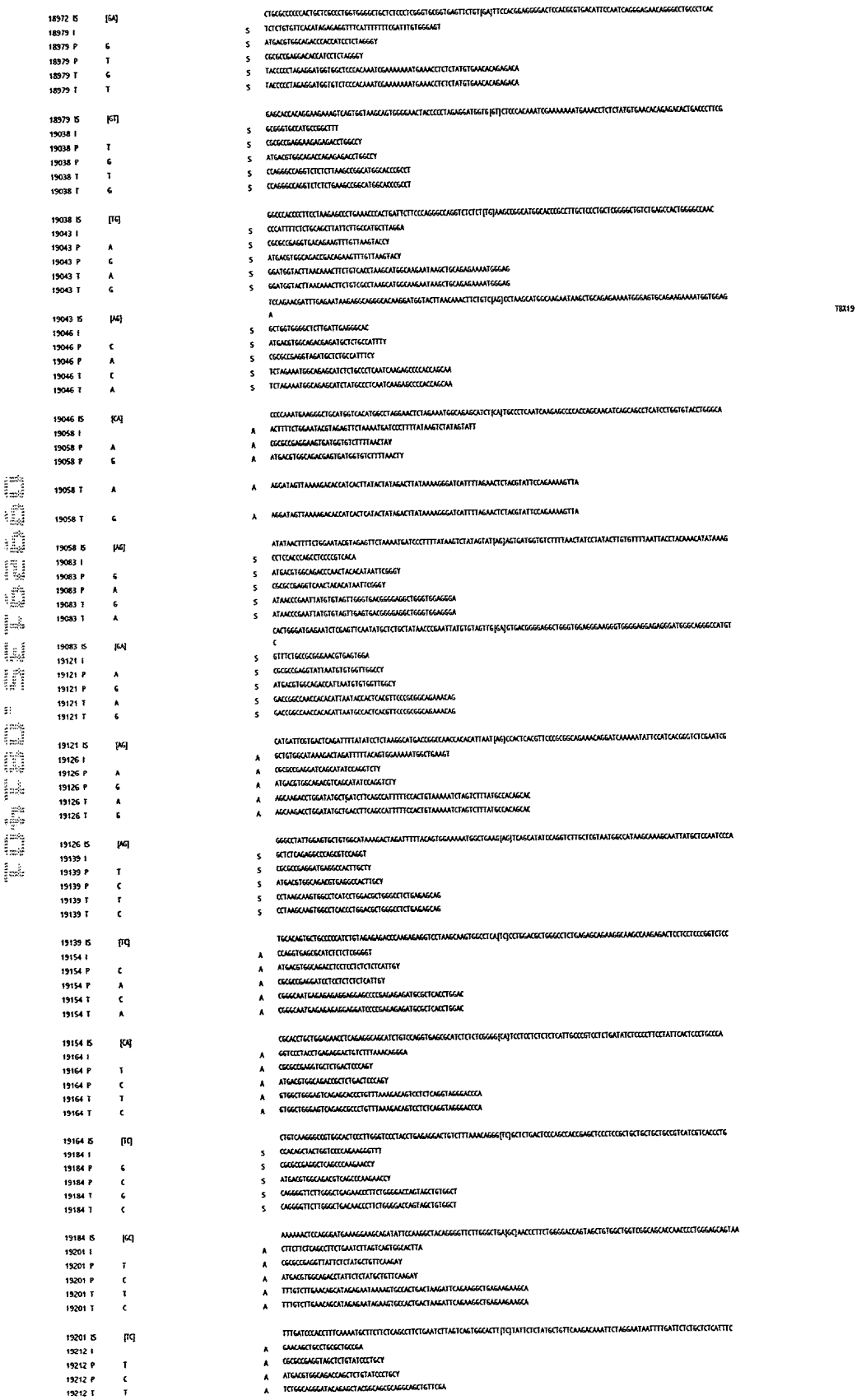
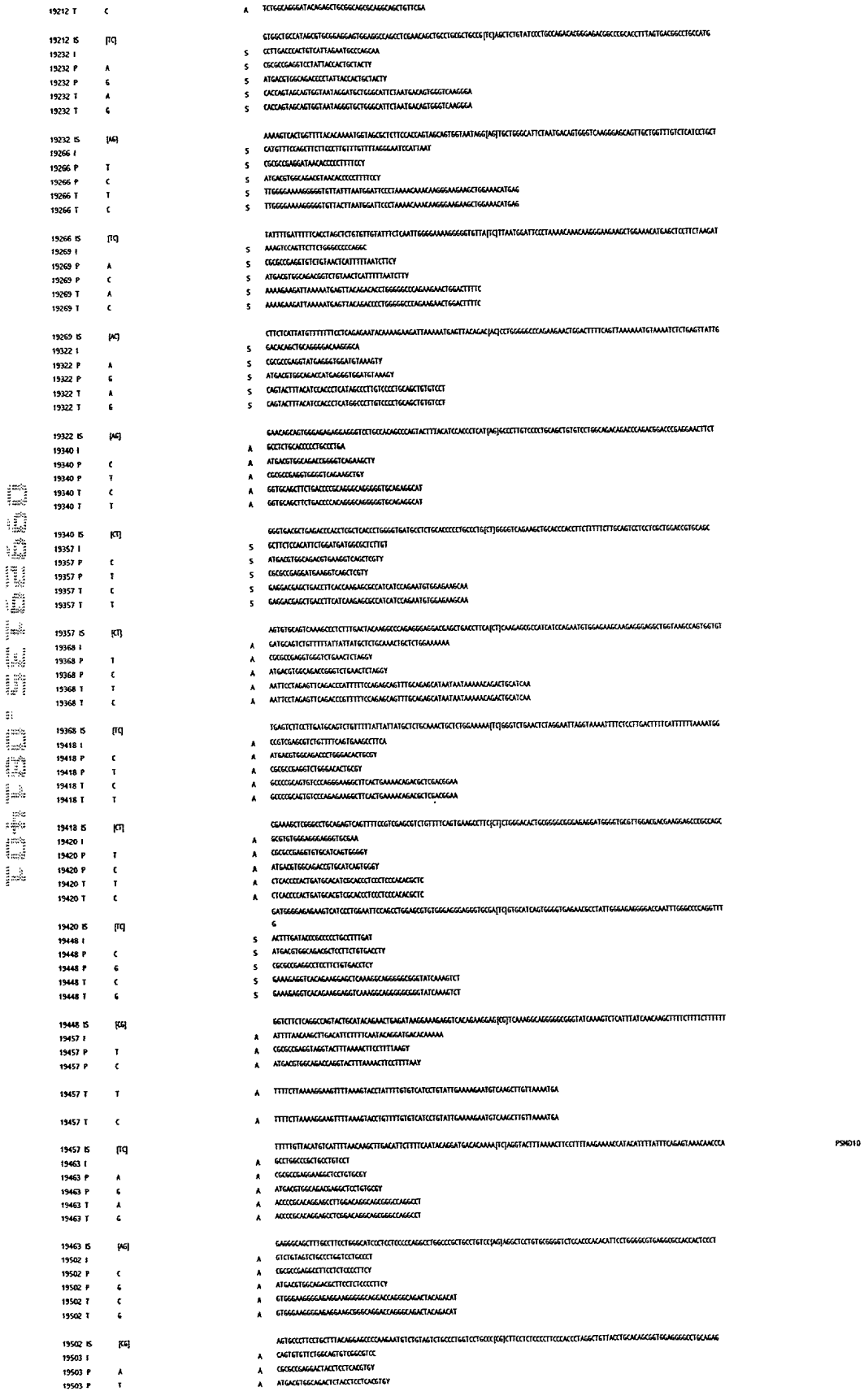

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19038 T T
19038 T G
19038 IS [TG]
19043 I
19043 P A
19043 P G
19043 T A
19043 T G
19043 IS [AG]
19046 I
19046 P C
19046 P A
19046 T C
19046 T A
19046 IS [CA]
19058 I
19058 P A
19058 P G
19058 T A
19058 T G
19058 IS [AG]
19083 I
19083 P G
19083 P A
19083 T G
19083 T A
19083 IS [GA]
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19121 P G
19121 T A
19121 T G
19121 IS [AG]
19126 I
19126 P A
19126 P G
19126 T A
19126 T G
19126 IS [AG]
19139 I
19139 P T
19139 P C
19139 T T
19139 T C
19139 IS [TC]
19154 I
19154 P C
19154 P A
19154 T C
19154 T A
19154 IS [CA]
19164 I
19164 P T
19164 P C
19164 T T
19164 T C
19164 IS [TC]
19184 I
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19184 P C
19184 T G
19184 T C
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FIGURE 129F



SEQUENCE LISTING

FIGURE 129F

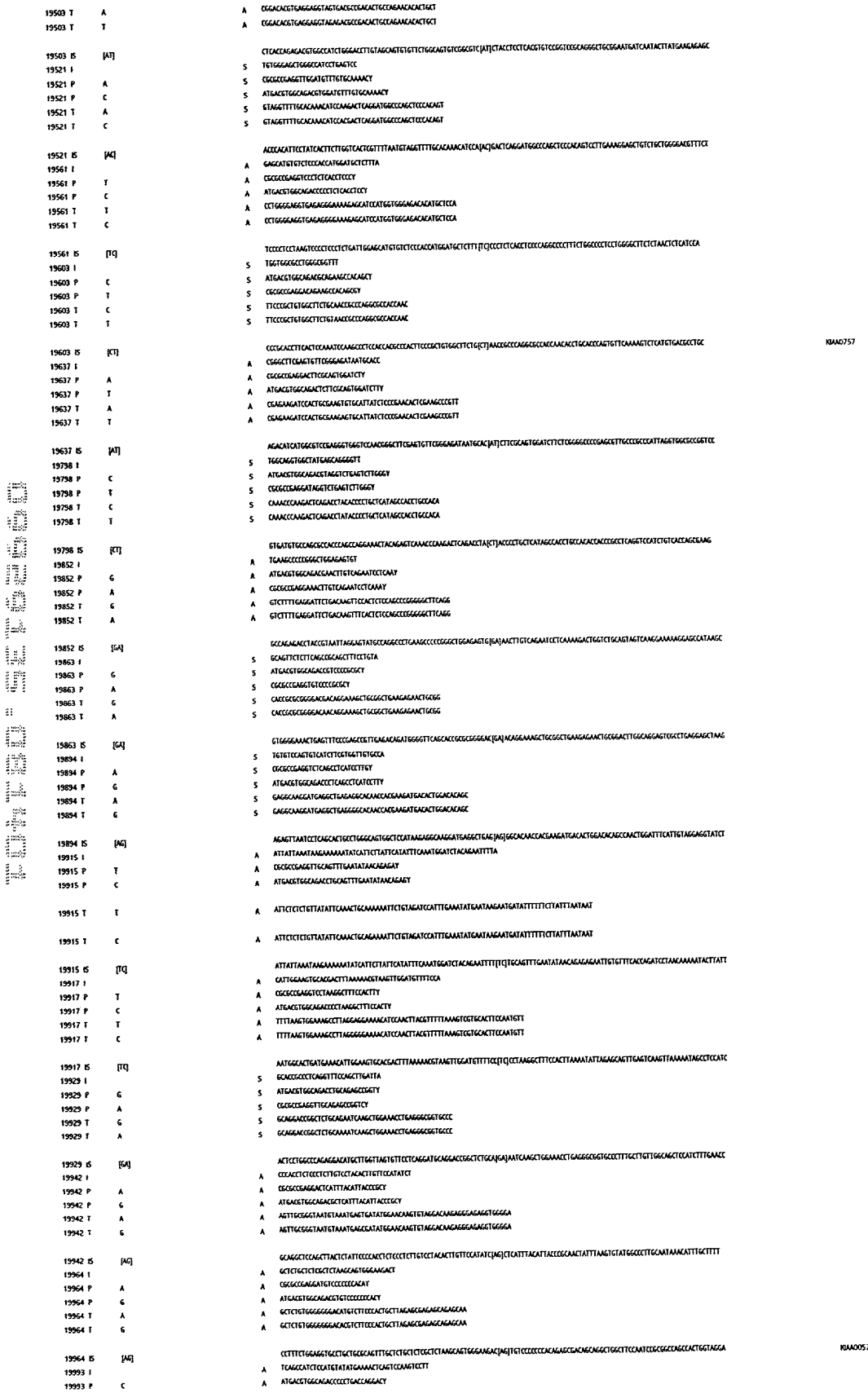

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19561 I
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19561 P C
19561 T T
19561 T C
19561 IS [TC]
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19603 P C
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19603 T T
19603 IS [CT]
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19929 T G
19929 T A
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19964 I
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KIAA0057

FIGURE 129F

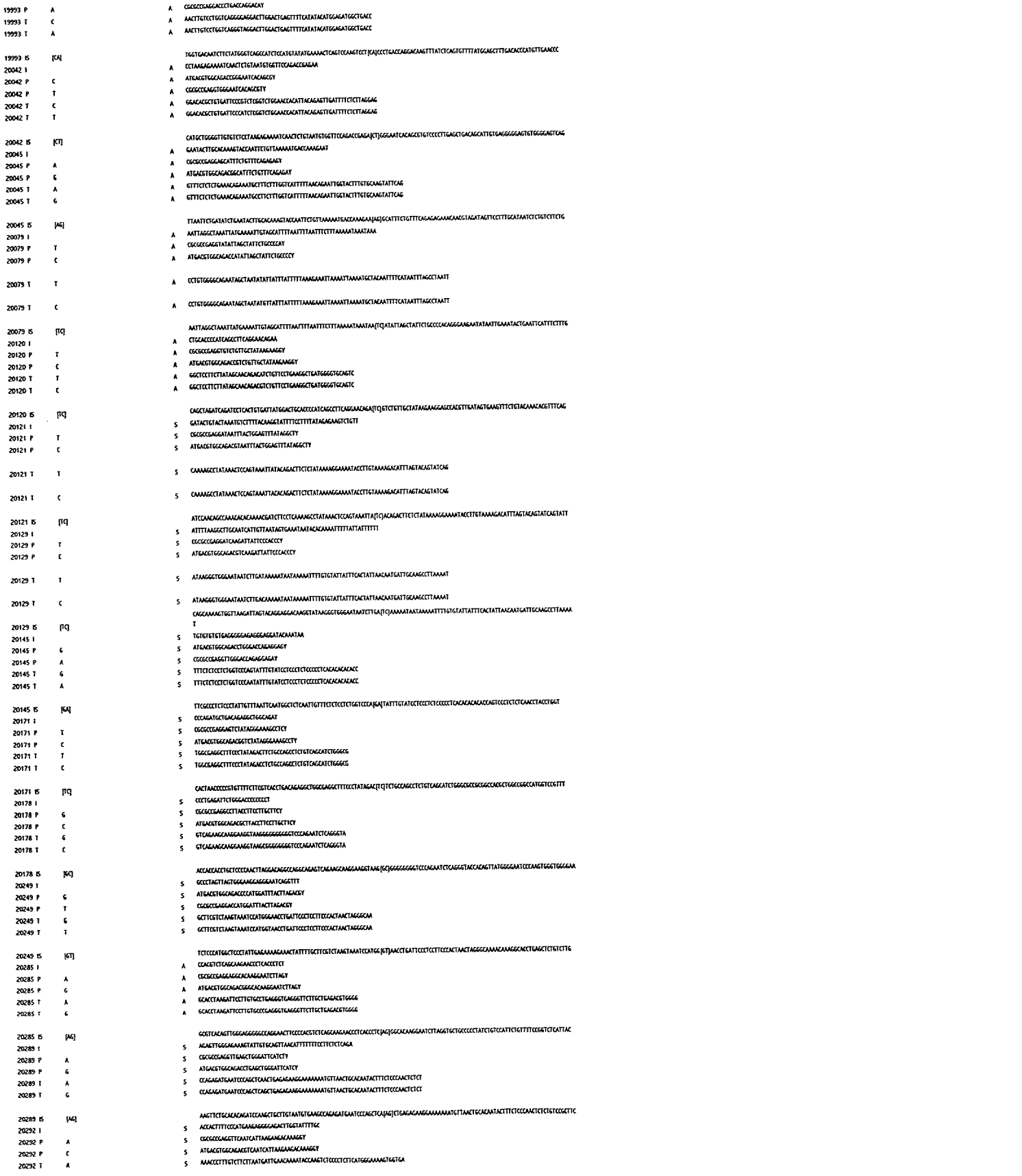
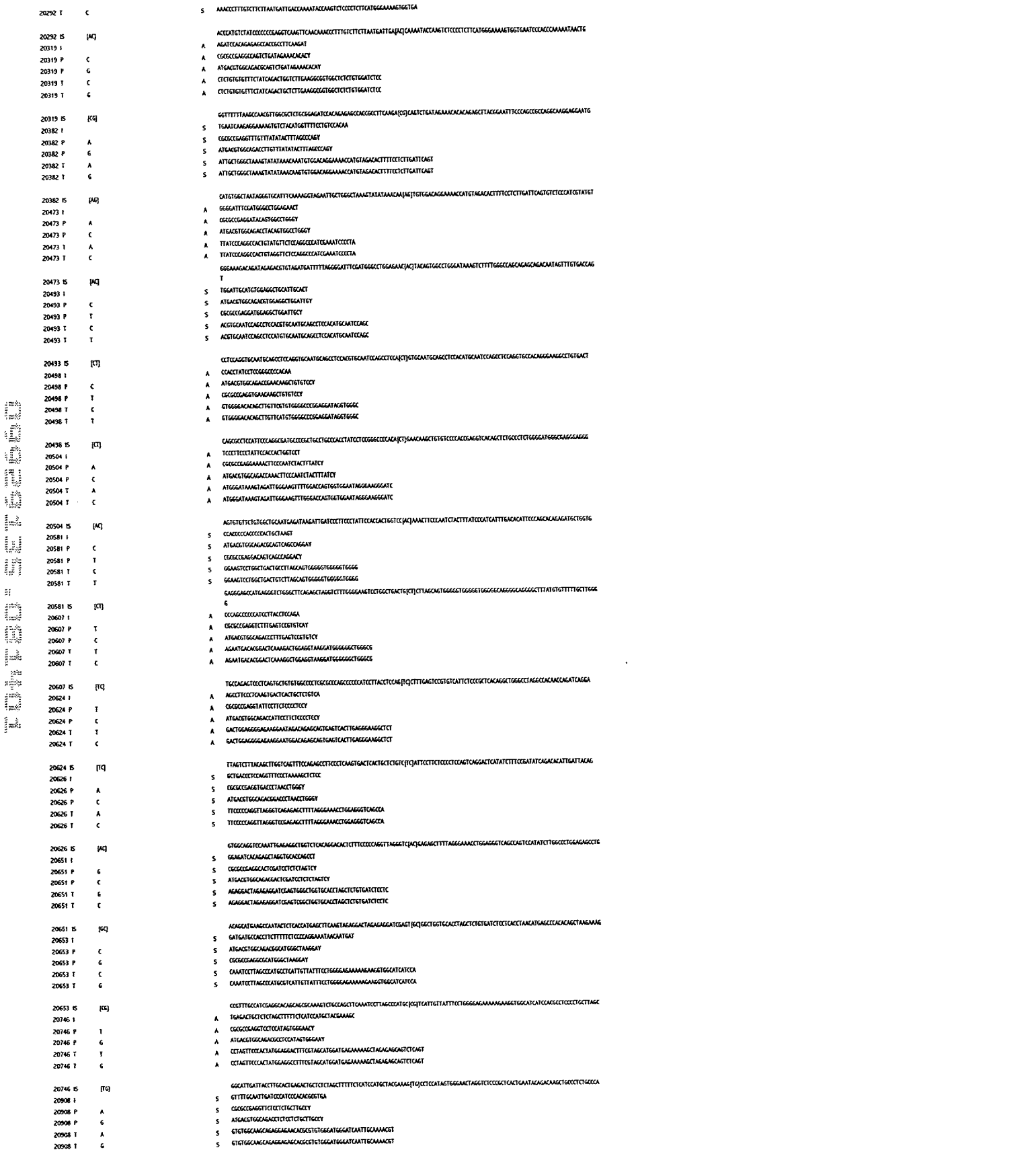


FIGURE 129F



SEQUENCE LISTING

FIGURE 129F

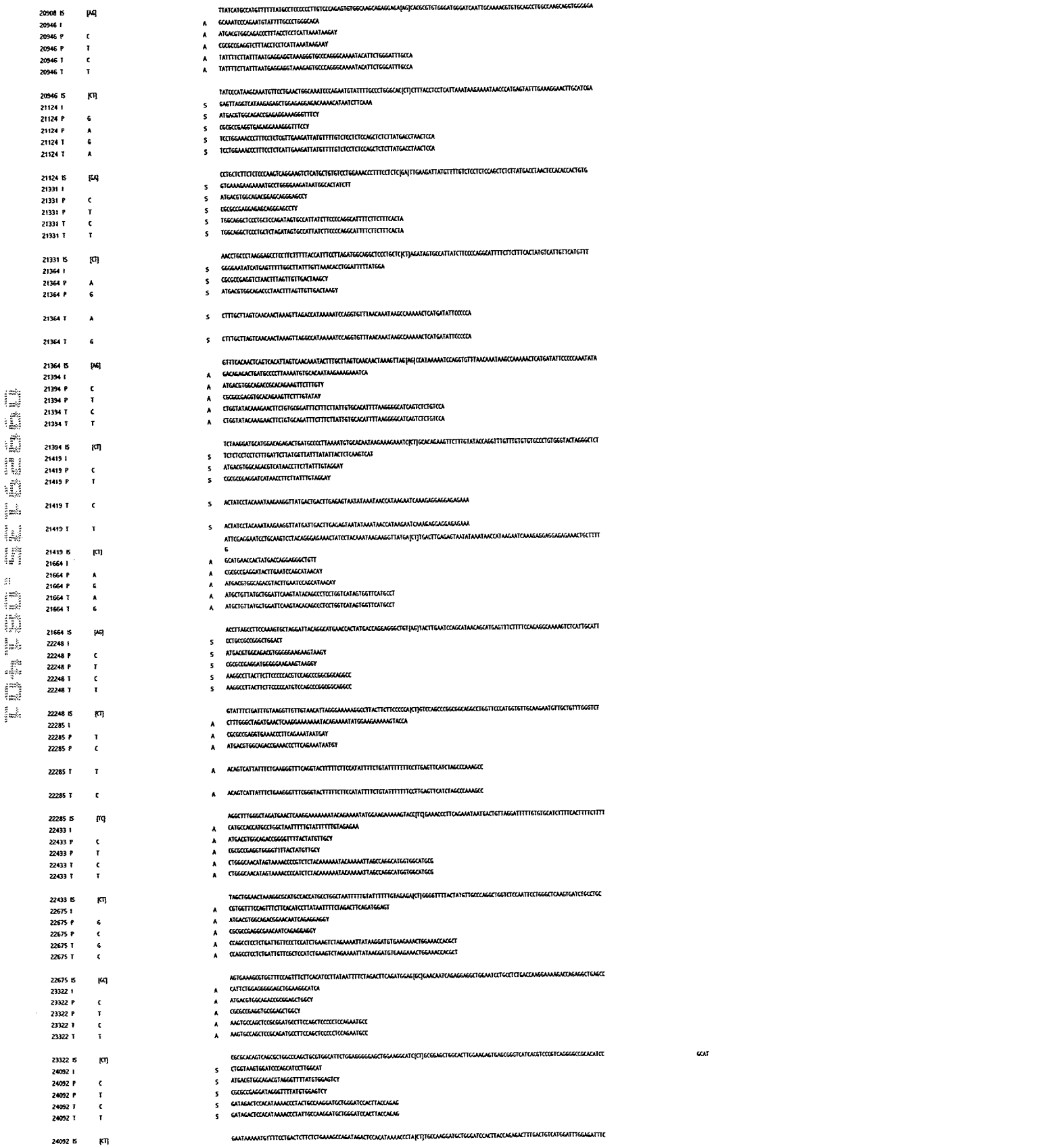

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20946 P C A ATGACGTGGCAGACCCTTTACCTCCTCATTAAATAAGAY
20946 P T A CGGCCCGAGGTCTTTACCTCCTCATTAAATAAGAAY
20946 T C A TATTTTCTTATTTAATGAGGAGGTAAAGGGTGCCCAGGGCAAAATACATTCTGGGATTTGCCA
20946 T T A TATTTTCTTATTTAATGAGGAGGTAAACAGTGCCCAGGGCAAAATACATTCTGGGATTTGCCA
20946 IS [CT] TATCCCATAAGCAAATGTTCCTGAACTGGCAAATCCCAGAATGTATTTTGCCCTGGGCAC[CT]CTTTACCTCCTCATTAAATAAGAAAATAACCCATGAGTATTTGAAAGGAACTTGCATCGA
21124 I S GAGTTAGGTCATAAGAGAGCTGCAGAGGNGNCAAAACATAATCTTCAAA
21124 P G S ATGACGTGGCAGACCGAGAGGAAAGGGTTTCY
21124 P A S CGCGCCGAGGTGAGAGGAAAGGGTTTCCY
21124 T G S TCCTGGAAACCCTTTCCTCTCGTTGAAGATTATGTTTTGTCTCCTCTCCAGCTCTCTTATGACCTAACTCCA
21124 T A S TCCTGGAAACCCTTTCCTCTCATTGAAGATTATGTTTTGTCTCCTCTCCAGCTCTCTTATGACCTAACTCCA
21124 IS [CA] CCTGCTCTTCTCTCCCCAAGTCAGGAAGTCTCATGCTGTGTCCTGGAAACCCTTTCCTCTC[GA]TTGAAGATTATGTTTTGTCTCCTCTCCAGCTCTCTTATGACCTAACTCCACACCACTGTG
21331 I S GTGAAAGAAGAAAATGCCTGGGGAAGATAATGGCACTATCTT
21331 P C S ATGACGTGGCAGACGGAGCAGGGAGCCT
21331 P T S CGCGCCGAGGAGACGGGAGCCTY
21331 T C S TGGCAGGCTCCCTGCTCCAGATAGTGCCATTATCTTCCCCAGGCATTTTCTTCTTTCACTA
21331 T T S TGGCAGGCTCCCTGCTCTAGATAGTGCCATTATCTTCCCCAGGCATTTTCTTCTTTCACTA
21331 IS [CT] AACCTGCCCTAAGGAGCCTCCTTCTTTTACCATTTCCTTAGATGGCAGGCTCCCTGCTC[CT]AGATAGTGCCATTATCTTCCCCAGGCATTTTCTTCTTTCACTATGTCATTGTTCATGTTT
21364 I S GGGGAATATCATGAGTTTTTGGCTTATTTGTTAAACACCTGGATTTTTATGGA
21364 P A S CGCGCCGAGGTCTAACTTTAGTTGTTGACTAAGCY
21364 P G S ATGACGTGGCAGACCCTAACTTTAGTTGTTGACTAAGY
21364 T A S CTTTGCTTAGTCAACAACTAAAGTTAGACCATAAAAATCCAGGTGTTTAACAAATAAGCCAAAAACTCATGATATTCCCCCA
21364 T G S CTTTGCTTAGTCAACAACTAAAGTTAGGCCATAAAAATCCAGGTGTTTAACAAATAAGCCAAAAACTCATGATATTCCCCCA
21364 IS [AG] GTTTCAACACTCAGTCACATTAGTCAACAAATACTTTGCTTAGTCAACAACTAAAGTTAG[AG]CCATAAAAATCCAGGTGTTTAACAAATAAGCCAAAAACTCATGATATTCCCCCAAATATA
21394 I A GACAGAGACTGATGCCCCTTAAAATGTGCACAATAAGAAAGAAATCA
21394 P C A ATGACGTGGCAGACGGCACAGAAGTTCTTTGTY
21394 P T A CGCGCCGAGGTGCACAGAAGTTCTTTGTAY
21394 T C A CTGGTATACAAAGAACTTCTGTGCGGATTTCTTTCTTATTGTGCACATTTTAAGGGGCATCAGTCTCTGTCCA
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21394 IS [CT] TCTAAGGATGCATGGACAGAGACTGATGCCCCTTAAAATGTGCACAATAAGAAAGAAATC[CT]GCACAGAAGTTCTTTGTATACCAGGTTGTTTGTGTGCCCCTGTGGGTACTAGGGCTCT
21419 I S TCTCTCCTCCTCTTTGATTCTTATGGTTATTTATATTACTCTCAAGTCAT
21419 P C S ATGACGTGGCAGACGTCATAACCTTCTTATTTGTAGGAY
21419 P T S CGCGCCGAGGATCATAACCTTCTTATTTGTAGGAY
21419 T C S ACTATCCTACAAATAAGAAGGTTATGACTGACTTGAGAGTAATATAAATAACCATAAGAATCAAAGAGGAGGAGAGAAA
21419 T T S ACTATCCTACAAATAAGAAGGTTATGATTGACTTGAGAGTAATATAAATAACCATAAGAATCAAAGAGGAGGAGAGAAA
21419 IS [CT] ATTCGAGGAATCCTGCAAGTCCTACAGGGAGAAACTATCCTACAAATAAGAAGGTTATGA[CT]TGACTTGAGAGTAATATAAATAACCATAAGAATCAAAGAGGAGGAGAGAAACTGCTTTT
21664 I A G GCATGAACCACTATGACCAGGAGGGCTGTT
21664 P A A CCGCGCCGAGGATACTTGAATCCAGCATAACAY
21664 P G A ATGACGTGGCAGACGTACTTGAATCCAGCATAACAY
21664 T A A ATGCTGTTATGCTGGATTCAAGTATACAGACCCTCCTGGTCATAGTGGTTCATGCCT
21664 T G A ATGCTGTTATGCTGGATTCAAGTACACAGACCCTCCTGGTCATAGTGGTTCATGCCT
21664 IS [AG] ACCTTAGCCTTCCAAAGTGCTAGGATTACAGGCATGAACCACTATGACCAGGAGGGGCTGT[AG]TACTTGAATCCAGCATAACAGCATGAGTTTCTTTTCCAGAGGCAAAAGTCTCATTGCATT
22248 I S CCTGCCGCCGGGCTGGACT
22248 P C S ATGACGTGGCAGACGTGGGGGAAGAAGTAAGY
22248 P T S CGCGCCGAGGATGGGGGAAGAAGTAAGGY
22248 T C S AAGGCCTTACTTCTTCCCCCACGTCCAGCCCGGCGGCAGGCC
22248 T T S AAGGCCTTACTTCTTCCCCCATGTCCAGCCCGGCGGCAGGCC
22248 IS [CT] GTATTTCTGATTTGTAAGGTTGTTGTAACATTAGGGAAAAAGGCCTTACTTCTCCCCCA[CT]GTCCAGCCCGGCGGCAGGCCTGGTTCCCATGGTGTTGCAAGAATGTTGCTGTTTGGGTCT
22285 I A CTTTGGGCTAGATGAACTCAAGGAAAAAATACAGAAAATATGGAAGAAAAAGTACCY
22285 P T A CGCGCCGAGGTGAAACCCTTCAGAAATAATGAY
22285 P C A ATGACGTGGCAGACCGAAACCTTCAGAAATAATGY
22285 T T A ACAGTCATTATTTCTGAAGGGTTTCAGGTACTTTTTCTTCCATATTTTCTGTATTTTTTTCCTTGAGTTCATCTAGCCCAAAGCC
22285 T C A ACAGTCATTATTTCTGAAGGGTTTCGGGTACTTTTTCTTCCATATTTTCTGTATTTTTTTCCTTGAGTTCATCTAGCCCAAAGCC
22285 IS [TC] AGGCTTTGGGCTAGATGAACTCAAGGAAAAAATACAGAAAATATGGAAGAAAAAGTACCT[TC]GAAACCCTTCAGAAATAATGACTGTTAGGATTTTTGTGTGCATCTTTCACTTTTCTTT
22433 I A CATGCCACCATGCCTGGCTAATTTTTGTATTTTTTGTAGAGAA
22433 P C A ATGACGTGGCAGACCGGGGTTTTACTATGTTGCY
22433 P T A CGCGCCGAGGTGGGGTTTACTATGTTGCY
22433 T C A CTGGGCAACATAGTAAAACCCCGTCTCTACAAAAAATACAAAAATTAGCCAGGCATGGTGGCATGCG
22433 T T A CTGGGCAACATAGTAAAACCCCATCTCTACAAAAAATACAAAAATTAGCCAGGCATGGTGGCATGCG
22433 IS [CT] TAGCTGGAACTAAGGCGCATGCCACCATGCCTGGCTAATTTTTGTATTTTTGTAGAGA[CT]GGGGTTTTACTATGTTGCCCAGGCTGGTCTCCAATTCCTGGGCTCAAGTGATCTGCCTGC
22675 I A CGTGGTTTCCAGTTTCTTCACATCCTTATAATTTTCTAGACTTCAGATGGAGT
22675 P G A ATGACGTGGCAGAGGAACAATCAGAGGAGGY
22675 P C A CGCGCCGAGGCGAACAATCAGAGGAGGY
22675 T G A CCAGCCTCCTCTGATTGTTCCCTCCATCTGAAGTCTAGAAAATTATAAGGATGTGAAGAAACTGGAAACCACGCT
22675 T C A CCAGCCTCCTCTGATTGTTCGCTCCATCTGAAGTCTAGAAAATTATAAGGATGTGAAGAAACTGGAAACCACGCT
22675 IS [GC] AGTGAAAGGGTGGTTTCCAGTTTCTTCACATCCTTATAATTTTCTAGACTTCAGATGGAG[GC]GAACAATCAGAGGAGGCTGGAATCCTGCCTCTGACCAAGGAAAAGACCAGAGGCTGAGCC
23322 I A CATTCTGGAGGGGGAGCTGGAAGGCATCA
23322 P C A ATGACGTGGCAGACCGCGGAGCTGGCY
23322 P T A CGCGCCGAGGTGCGGAGCTGGCY
23322 T C A AAGTGCCAGCTCCGCGGATGCCTTCCAGCTCCCCCTCCAGAATGCC
23322 T T A AAGTGCCAGCTCCGCAGATGCCTTCCAGCTCCCCCTCCAGAATGCC
23322 IS [CT] CGCGCACAGTCAGCGCTGGCCCAGCTGCGTGGCATTCTGGAGGGGGAGCTGGAAGGCATC[CT]GCGGAGCTGGCACTTCGAAGAGTGAGCGGGTCATCACGTCCCGTCAGGGGCCGCACATCC GCAT
24092 I S CTGGTAAGTGGATCCCAGCATCCTTGGCAT
24092 P C S ATGACGTGGCAGACGTAGGGTTTTATGTGGAGTCY
24092 P T S CGCGCCGAGGATAGGGTTTTATGTGGAGTCY
24092 T C S GATAGACTCCACATAAAACCCTACTGCCAAGGATGCTGGGATCCACTTACCAGAG
24092 T T S GATAGACTCCACATAAAACCCTATTGCCAAGGATGCTGGGATCCACTTACCAGAG
24092 IS [CT] GAATAAAAATGTTTTCCTGACTCTTCTCTGAAAGCCAGATAGACTCCACATAAAACCCTA[CT]TGCCAAGGATGCTGGGATCCACTTACCAGAGACTTTGACTGTCATGGATTTGGAGATTTC

FIGURE 129F

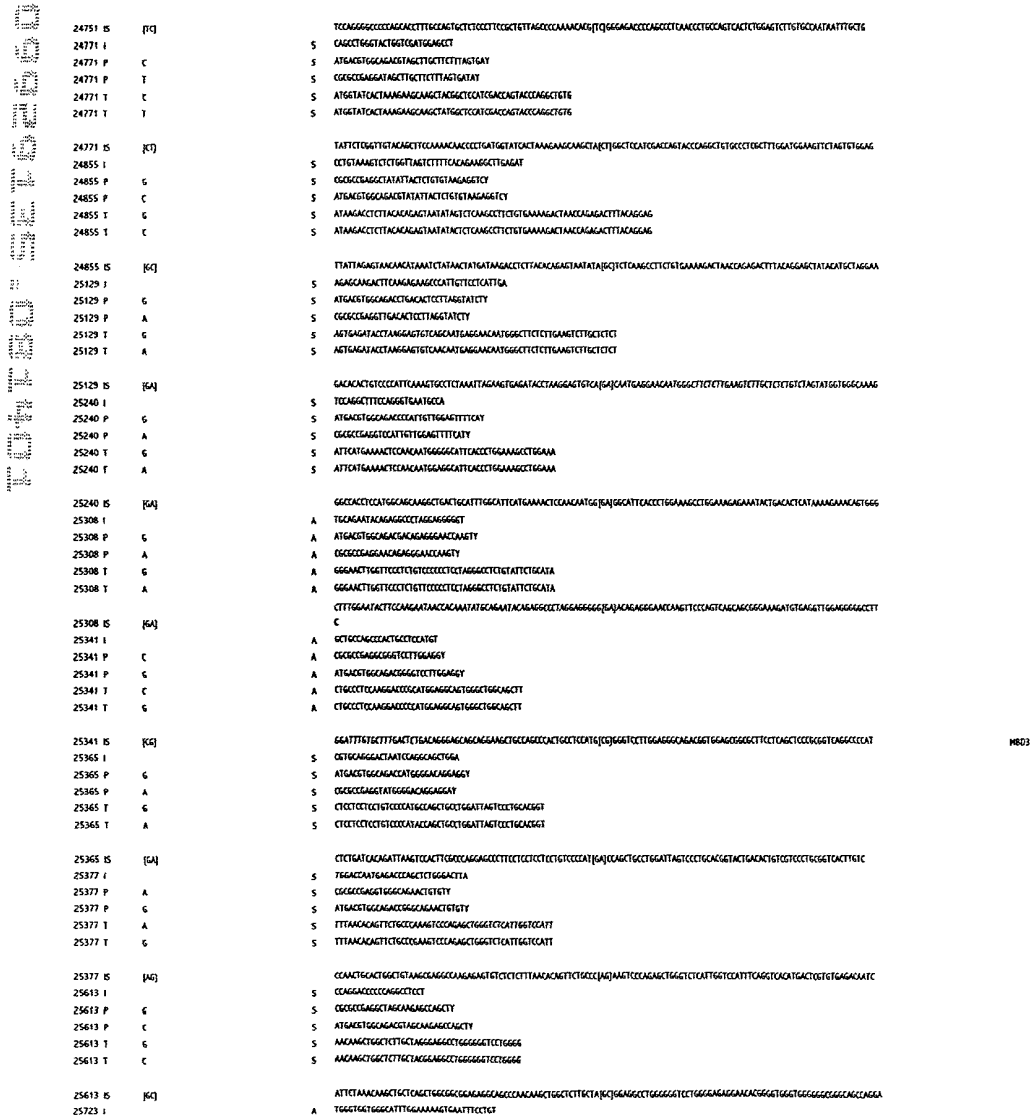


FIGURE 129F

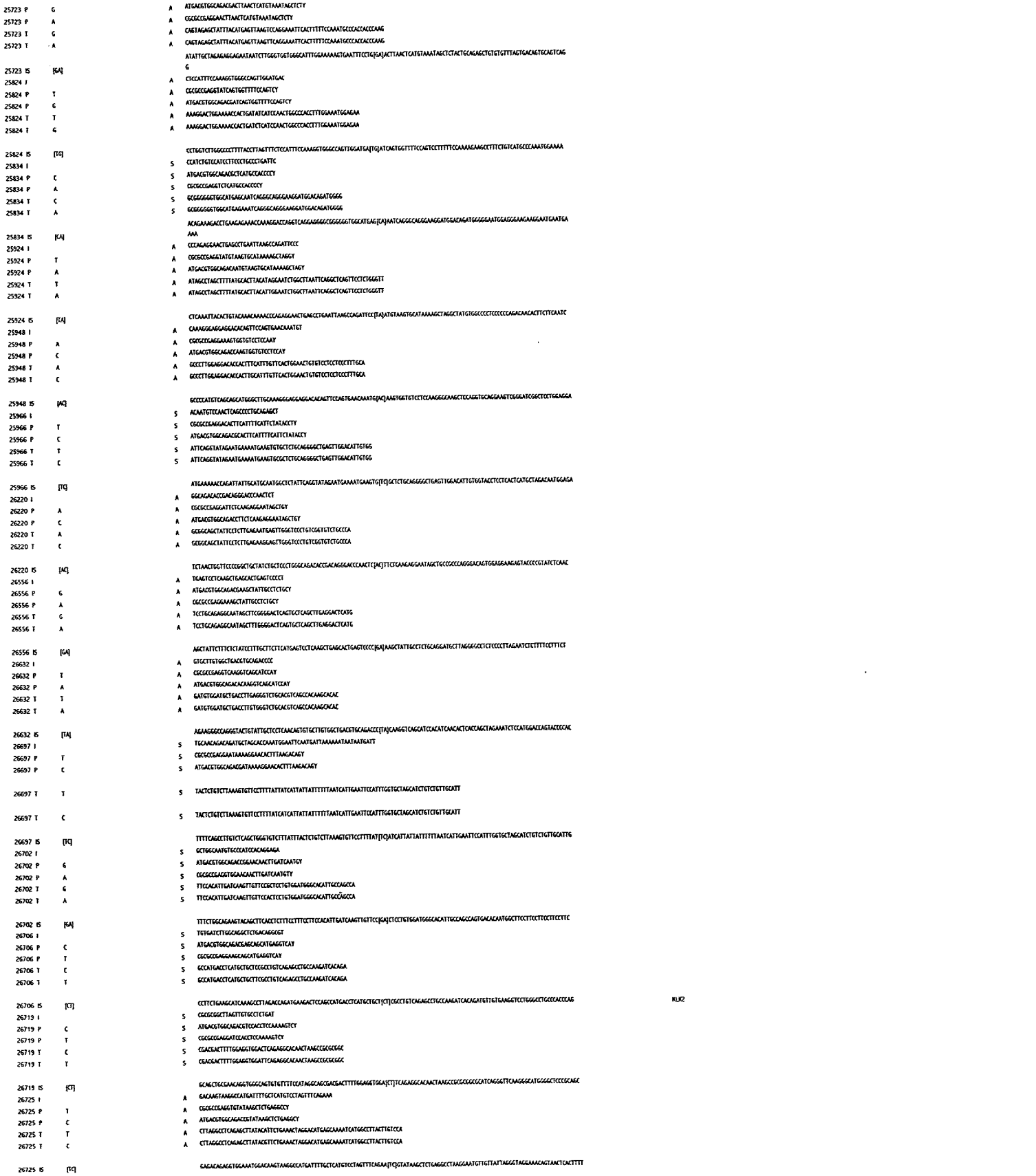


FIGURE 129F

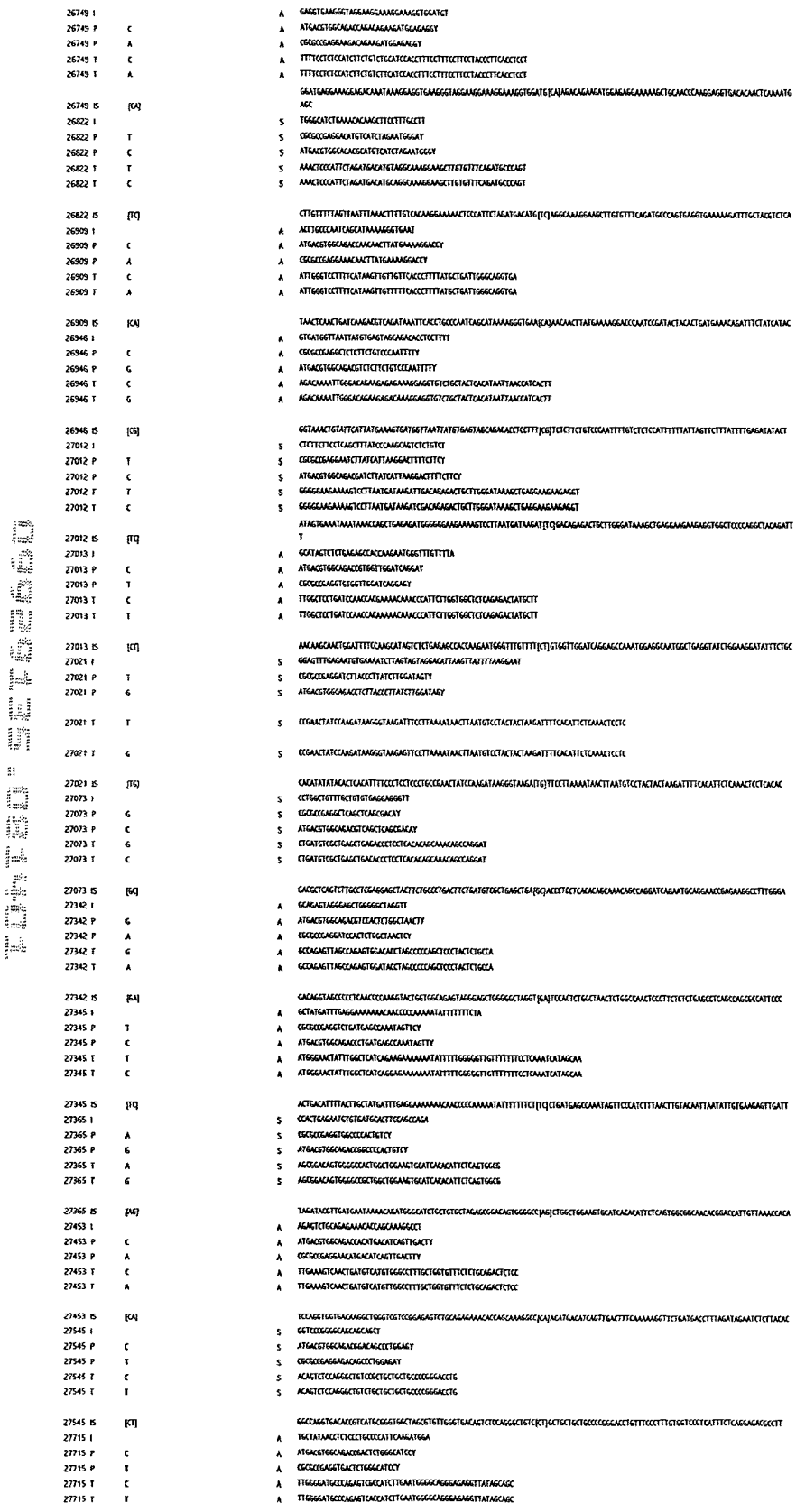
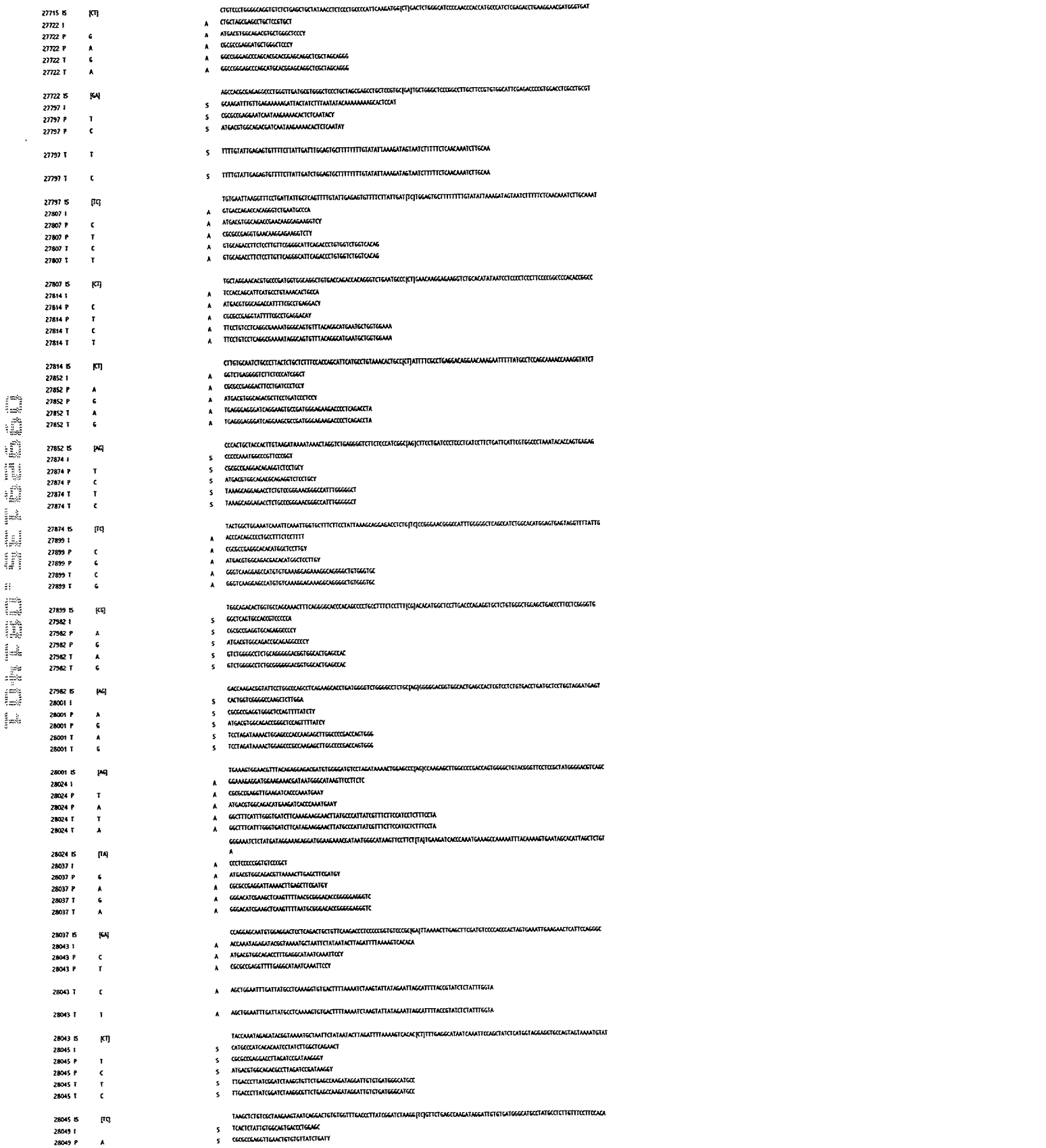


FIGURE 129F


27715 IS [CT] CTGTCCCTGGGGCAGGTGTCTCTGAGCTGCTATAACCTCTCCCTGCCCCATTCAAGATGG[CT]GACTCTGGGCATCCCCAACCCACCATGCCCATCTCGAGACCTGAAGGAACGATGGGTGAT
27722 I A CTGCTAGCGAGGCTGCTCCGTGCT
27722 P G A ATGACGTGGCAGACGTGCTGGGCTCCCY
27722 P A A CGCGCCGAGGATCGCTGGGCTCCCY
27722 T G A GGCCGGCAGCCCAGCAGCACGCGAGCAGGCTCGCTAGCAGGG
27722 T A A GGCCGGCAGCCCAGCATGCACGGAGCAGGCTCGCTAGCAGGG
27722 IS [GA] AGCCACGCGAGAGGCCCTGGGTTGATGCGTGGGCTCCCTGCTAGCGAGCCTGCTCCGTGC[GA]TGCTGGGCTCCCGGCCTTGCTTCCGTGTGGCATTCGAGACCCCGTGGACCTCGCCTGCGT
27797 I S GCAAGATTTGTTGAGAAAAAGATTACTATCTTTAATATACAAAAAAAAGCACTCCAT
27797 P T S CGCGCCGAGGAATCAATAAGAAAACACTCTCAATACY
27797 P C S ATGACGTGGCAGACGATCAATAAGAAAACACTCTCAATAY
27797 T T S TTTTGTATTGAGAGTGTTTTCTTATTGATTTGGAGTGCTTTTTTTTGTATATTAAAGATAGTAATCTTTTCTCAACAAATCTTGCAA
27797 T C S TTTTGTATTGAGAGTGTTTTCTTATTGATCTGGAGTGCTTTTTTTTGTATATTAAAGATAGTAATCTTTTCTCAACAAATCTTGCAA
27797 IS [TC] TGTGAATTAAGGTTTCCTGATTATTGCTCAGTTTTGTATTGAGAGTGTTTTCTTATTGAT[TC]TGGAGTGCTTTTTTTTGTATATTAAAGATAGTAATCTTTTCTCAACAAATCTTGCAAAT
27807 I A GTGACCAGACCACAGGGTCTGAATGCCCA
27807 P C A ATGACGTGGCAGACCGAACAAGGAGAAGGTCY
27807 P T A CGCGCCGAGGTGAACAAGGAGAAGGTCTY
27807 T C A GTGCAGACCTTCTCCTTGTTCGGGGCATTCAGACCCTGTGGTCTGGTCACAG
27807 T T A GTGCAGACCTTCTCCTTGTTCAGGGCATTCAGACCCTGTGGTCTGGTCACAG
27807 IS [CT] TGCTAGGAACACGTGCCCGATGGTGGCAGGCTGTGACCAGACACAGGGTCTGAATGCCC[CT]GAACAAGGAGAAGGTCTGCACATATAATCCTCCCCTCCCTTCCCCGGCCCCACACGGCC
27814 I A TCCACCAGCATTCATGCCTGTAAACACTGCCA
27814 P C A ATGACGTGGCAGACCATTTTCGCCTGAGGACY
27814 P T A CGCGCCGAGGTATTTTGGCCTGAGGACAY
27814 T C A TTCCTGTCCTCAGGCGAAAATGGGCAGTGTTACAGGCATGAATGCTGGTGGAAA
27814 T T A TTCCTGTCCTCAGGCGAAAATAGGCAGTGTTACAGGCATGAATGCTGGTGGAAA
27814 IS [CT] CTTGTGCAATCTGCCCTTACTCTGCTCTTTCCACCAGCATTCATGCCTGTAAACACTGCC[CT]ATTTTCGCCTGAGGACAGGAACAAAGAATTTTTATGCCTCCAGCAAAACCAAAGGTATCT
27852 I A GGTCTGAGGGGTCTTCTCCCATCGGCT
27852 P A A CGCGCCGAGGACTTCCTGATCCCTCCY
27852 P G A ATGACGTGGCAGACGCTTCCTGATCCCTCCY
27852 T A A TCAGGGAGGGATCAGGAAGTGCCGATGGGAGAAGACCCCTCAGACCTA
27852 T G A TCAGGGAGGGATCAGGAAGCGCCGATGGGAGAAGACCCCTCAGACCTA
27852 IS [AG] CCCACTGCTACCACTTGTAAGATAAAATAAACTAGGTCTGAGGGGTCTTCTCCCATCGGC[AG]CTTCCTGATCCCTCCCTCATCCTTCTGATTCATTCGTGGCCCTAAATACACCAGTGAGAG
27874 I S CCCCCAAATGGCCCGTTCCCGGT
27874 P T S CGCGCCGAGGACAGAGGTCTCCTGCY
27874 P C S ATGACGTGGCAGACGCAGAGGTCTCCTGCY
27874 T T S TAAAGCAGGAGACCTCTGTCCGGGAACGGGCCATTTGGGGGCT
27874 T C S TAAAGCAGGAGACCTCTGCCCGGGAACGGGCCATTTGGGGGCT
27874 IS [TC] TACTGGCTGGAAATCAAATTCAAATTGGTGCTTTCTTCCTATTAAAGCAGGAGACCTCTG[TC]CCGGGAACGGGCCATTTGGGGGCTCAGCCATCTGGCACATGGAGTGAGTAGGTTTTATTG
27899 I A ACCCACAGCCCCTGCCTTTCTCCTTTT
27899 P C A CGCGCCGAGGCACACATGGCTCCTTGY
27899 P G A ATGACGTGGCAGACACACATGGCTCCTTGY
27899 T C A GGGTCAAGGAGCCATGTGTGAAAGGAGAAAGGCAGGGGCTGTGGGTGC
27899 T G A GGGTCAAGGAGCCATGTGTCAAAGGAGAAAGGCAGGGGCTGTGGGTGC
27899 IS [CG] TGGCAGACACTGGTGCCAGCAAACTTTCAGGGGCACCCACAGCCCCTGCCTTTCTCCTTT[CG]ACACATGGCTCCTTGACCCAGAGGTGCTCTGTGGGCTGGAGCTGACCCTTCCTCGGGGTG
27982 I S GGCTCAGTGCCACCGTCCCCCA
27982 P A S CGCGCCGAGGTGCAGAGGCCCY
27982 P G S ATGACGTGGCAGACCGCAGAGGCCCCY
27982 T A S GTCTGGGGCCTCTGCAGGGGGACGGTGGCACTGAGCCAC
27982 T G S GTCTGGGGCCTCTGCGGGGGGACGGTGGCACTGAGCCAC
27982 IS [AG] GACCAAGACGGTATTCCTGGCCCAGCCTCAGAAGCACCTGATGGGGTCTGGGGCCTCTGC[AG]GGGGCAGCGGTGGCACTGAGCCACTCGTCCTCTGTGACCTGATGCTCCTGGTAGGATGAGT
28001 I S CACTGGTCGGGGCCAAGCTCTTGGA
28001 P A S CGCGCCGAGGTGGGCTCCAGTTTTATCTY
28001 P G S ATGACGTGGCAGACCGGGCTCCAGTTTTATCY
28001 T A S TCCTAGATAAAACTGGAGCCCACCAAGAGCTTGGCCCCGACCAGTGGG
28001 T G S TCCTAGATAAAACTGGAGCCCGCCAAGAGCTTGGCCCCGACCAGTGGG
28001 IS [AG] TGAAAGTGGAACGTTTACAGAGGAGACGATGTGGGGATGTCCTAGATAAAACTGGAGCCC[AG]CCAAGAGCTTGGCCCCGACCAGTGGGGCTGTACGGGTTCCTCGCTATGGGGACGTCAGC
28024 I A GGAAAGAGGATGGAAGAAACGATAATGGGCATAAGTTCCTCTC
28024 P T A CGCGCCGAGGTTGAAGATCACCCAAATGAAY
28024 P A A ATGACGTGGCAGACATGAAGATCACCCAAATGAAY
28024 T T A GGCTTTCATTTGGGTGATCTTCAAAGAAGGAACTTATGCCCATTATCGTTTCTTCCATCCTCTTTCCTA
28024 T A A GGCTTTCATTTGGGTGATCTTCATAGAAGGAACTTATGCCCATTATCGTTTCTTCCATCCTCTTTCCTA
28024 IS [TA] GGGAAATCTCTATGATAGGAAAGAGGATGGAAGAAAGCATAATGGGCATAAGTTCCTTCT[TA]TGAAGATCACCCAAATGAAAGCCAAAAATTTACAAAAGTGAATAGCAGCATTAGCTCTGT
28037 I A CCCTCCCCCGGTGTCCCGCT
28037 P G A ATGACGTGGCAGACGTTAAAACTTGAGCTTCGATGY
28037 P A A CGCGCCGAGGATTAAAACTTGAGCTTCGATGY
28037 T G A GGGACATCGAAGCTCAAGTTTTAACGCGGGGACACCGGGGGAAGGGTC
28037 T A A GGGACATCGAAGCTCAAGTTTTAATGCGGGGACACCGGGGGAAGGGTC
28037 IS [GA] CCAGGAGCAATGTGGAGGACTCCTCAGACTGCTGTTCAAGACCCTCCCCCCGTGTCCCGC[GA]TTAAAACTTGAGCTTCGATGTCCCCACCCACTAGTGAAATTGAAGAACTCATTCCAGGGC
28043 I A ACCAAATAGAGATACGGTAAAATGCTAATTCTATAATACTTAGATTTTAAAAGTCACACA
28043 P C A ATGACGTGGCAGACCTTTGAGGCATAATCAAATTCCY
28043 P T A CGCGCCGAGGTTTTGAGGCATAATCAAATTCCY
28043 T C A AGCTGGAATTTGATTATGCCTCAAAGGTGTGACTTTTAAAATCTAAGTATTATAGAATTAGCATTTTACCGTATCTCTATTTGGTA
28043 T T A AGCTGGAATTTGATTATGCCTCAAAGTGTGACTTTTAAAATCTAAGTATTATAGAATTAGCATTTTACCGTATCTCTATTTGGTA
28043 IS [CT] TACCAAATAGAGATACGGTAAAATGCTAATTCTATAATACTTAGATTTTAAAAGTCACAC[CT]TTTGAGGCATAATCAAATTCCAGCTATCTCATGGTAGGAGGTGCCAGTAGTAAAATGTAT
28045 I S CATGCCCATCACACAATCCTATCTTGGCTCAGAACT
28045 P T S CGCGCCGAGGACCTTAGATCCGATAAGGGY
28045 P C S ATGACGTGGCAGACGCCTTAGATCCGATAAGGY
28045 T T S TTGACCCTTATCGGATCTAAGGTGTTCTGAGCCAAGATAGGATTGTGTGATGGGCATGCC
28045 T C S TTGACCCTTATCGGATCTAAGGGTTCTGAGCCAAGATAGGATTGTGTGATGGGCATGCC
28045 IS [TC] TAAGCTCTGTCGCTAAGAAGTAATCAGGACTGTGTGGTTTGACCCTTATCGGATCTAAGG[TC]GTTCTGAGCCAAGATAGGATTGTGTGATGGGCATGCCTATGCCTCTTGTTTCCTTCCACA
28049 I S TCACTCTATTGTGGCAGTGACCCTGGAGC
28049 P A S CGCGCCGAGGTTGAACTGTGTGTTATCTGATY

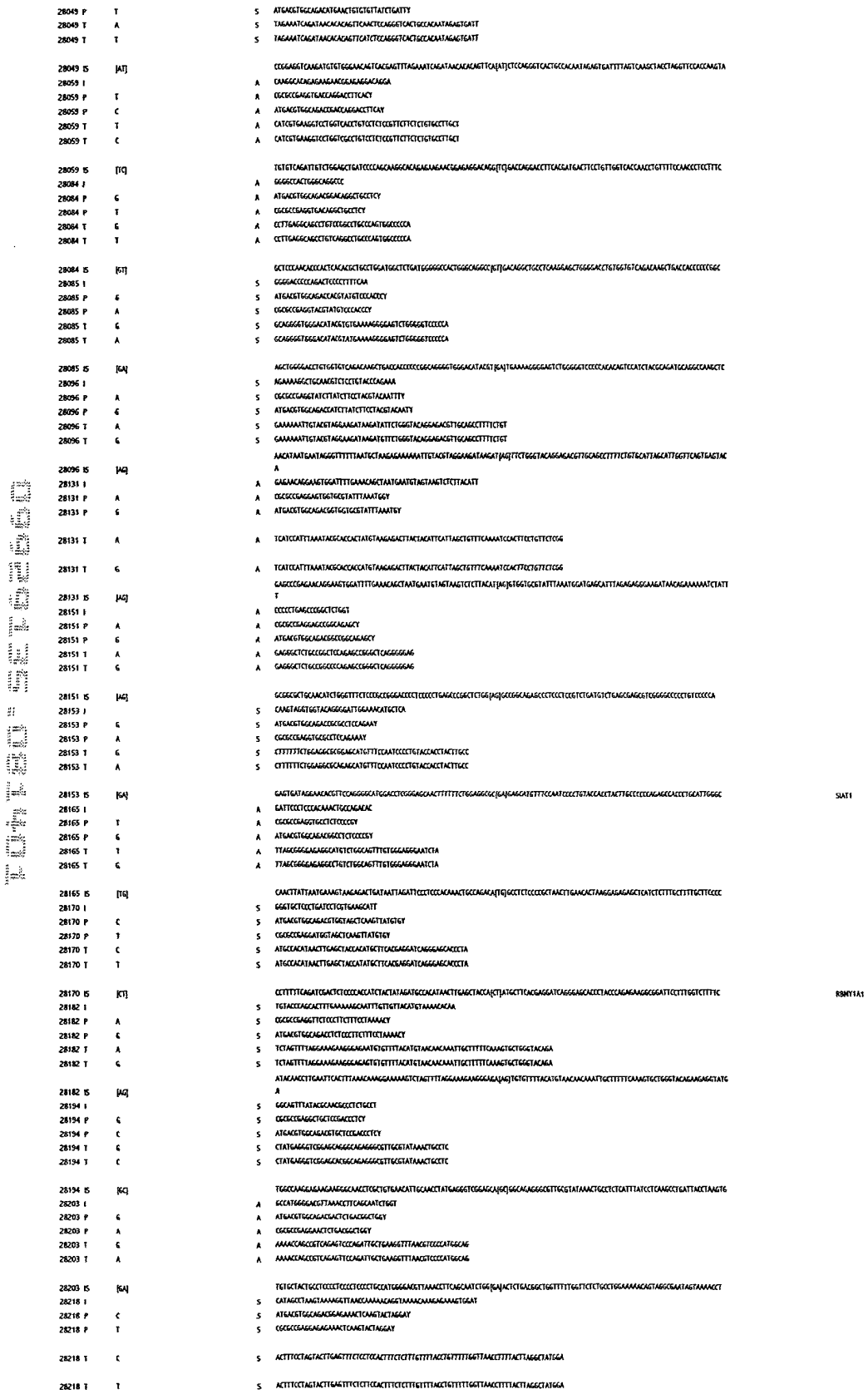


FIGURE 129F

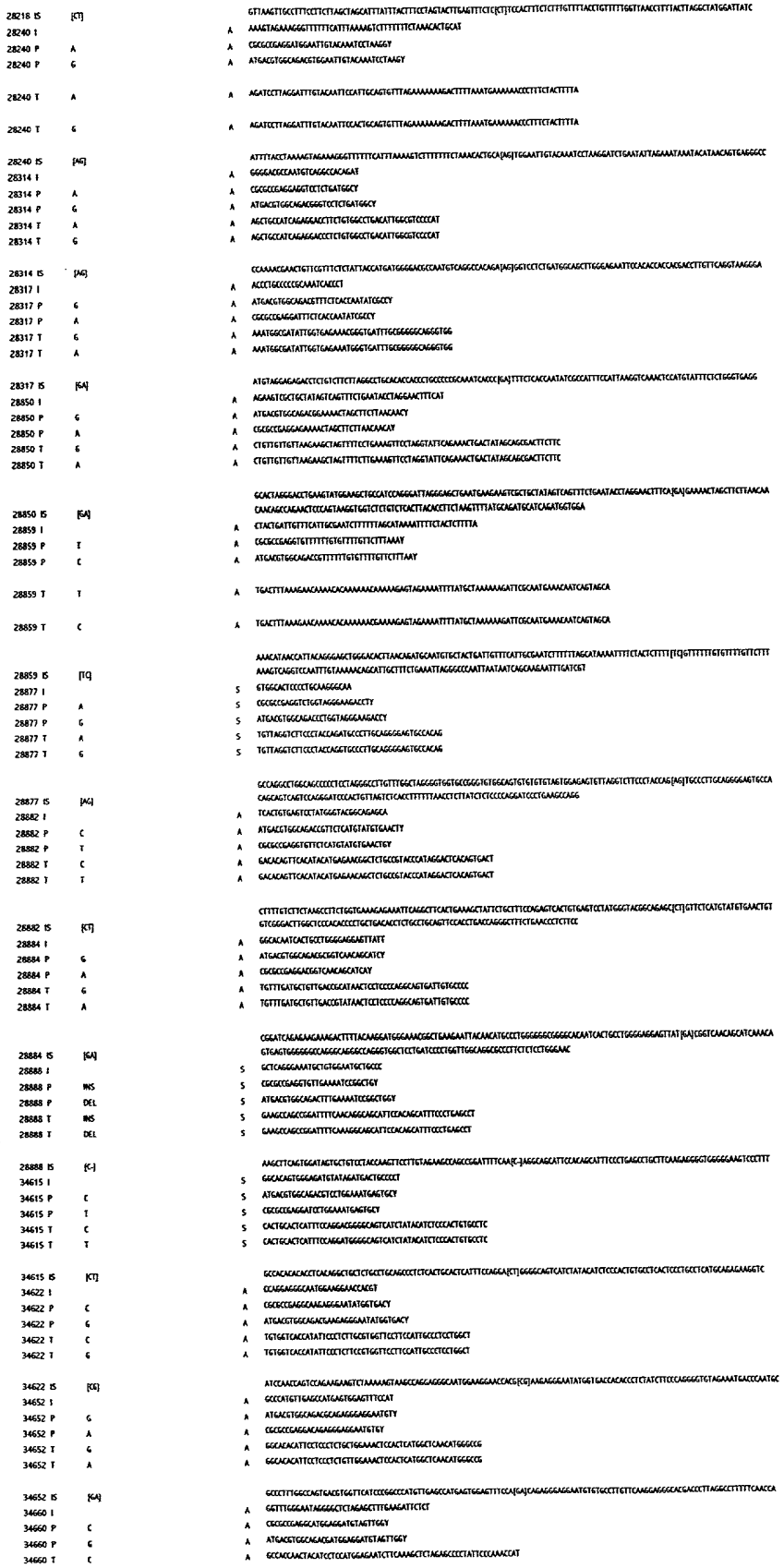


FIGURE 129F

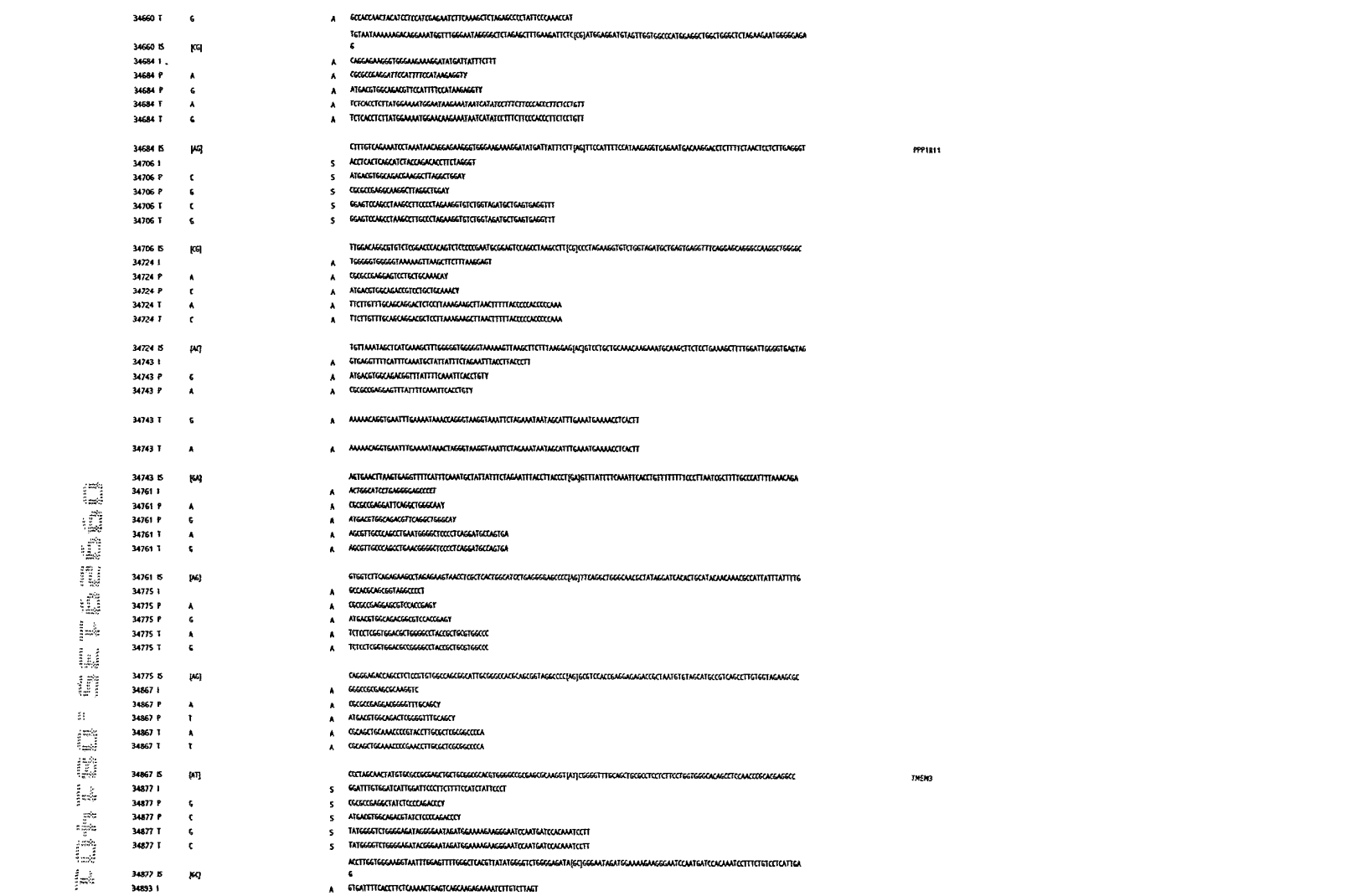


FIGURE 129F

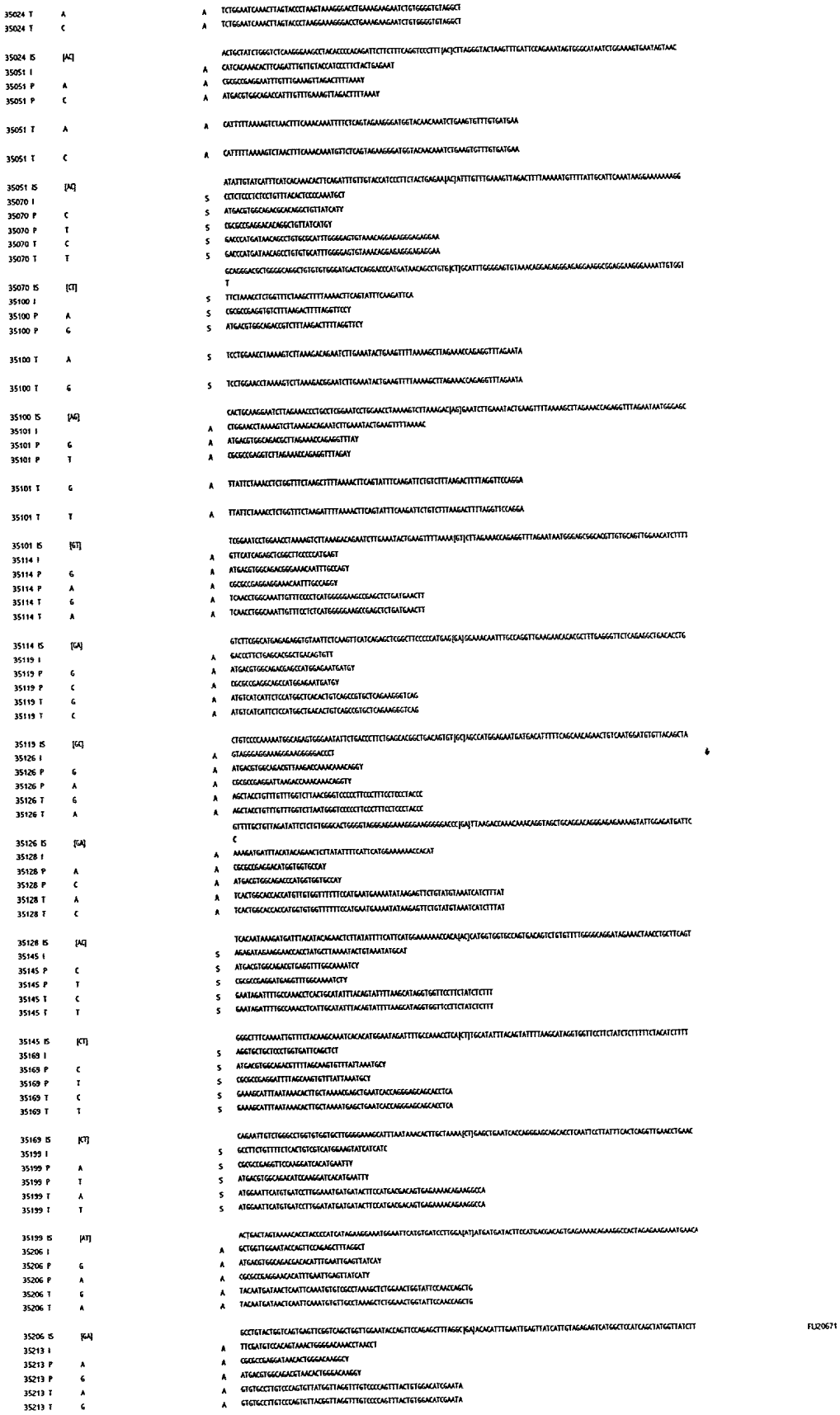


FIGURE 129F


35213 IS [AG]
35290 I
35290 P C
35290 P T
35290 T C
35290 T T
35290 IS [CT]
35307 I
35307 P G
35307 P A
35307 T G
35307 T A
35307 IS [GA]
35309 I
35309 P G
35309 P A
35309 T G
35309 T A
35309 IS [GA]
35317 I
35317 P G
35317 P A
35317 T G
35317 T A
35317 IS [GA]
35327 I
35327 P C
35327 P T
35327 T C
35327 T T
35327 IS [CT]
35332 I
35332 P G
35332 P T
35332 T G
35332 T T
35332 IS [GT]
35344 I
35344 P A
35344 P G
35344 T A
35344 T G
35344 IS [AG]
35361 I
35361 P T
35361 P C
35361 T T
35361 T C
35361 IS [TC]
35376 I
35376 P T
35376 P C
35376 T T
35376 T C
35376 IS [TC]
35405 I
35405 P A
35405 P T
35405 T A
35405 T T
35405 IS [AT]
35407 I
35407 P A
35407 P C
35407 T A
35407 T C
35407 IS [AC]
35439 I
35439 P T
35439 P C
35439 T T
35439 T C
35439 IS [TC]
35440 I
35440 P A
35440 P C
35440 T A
35440 T C
35440 IS [AC]
35456 I
35456 P G
35456 P T

FIGURE 129F

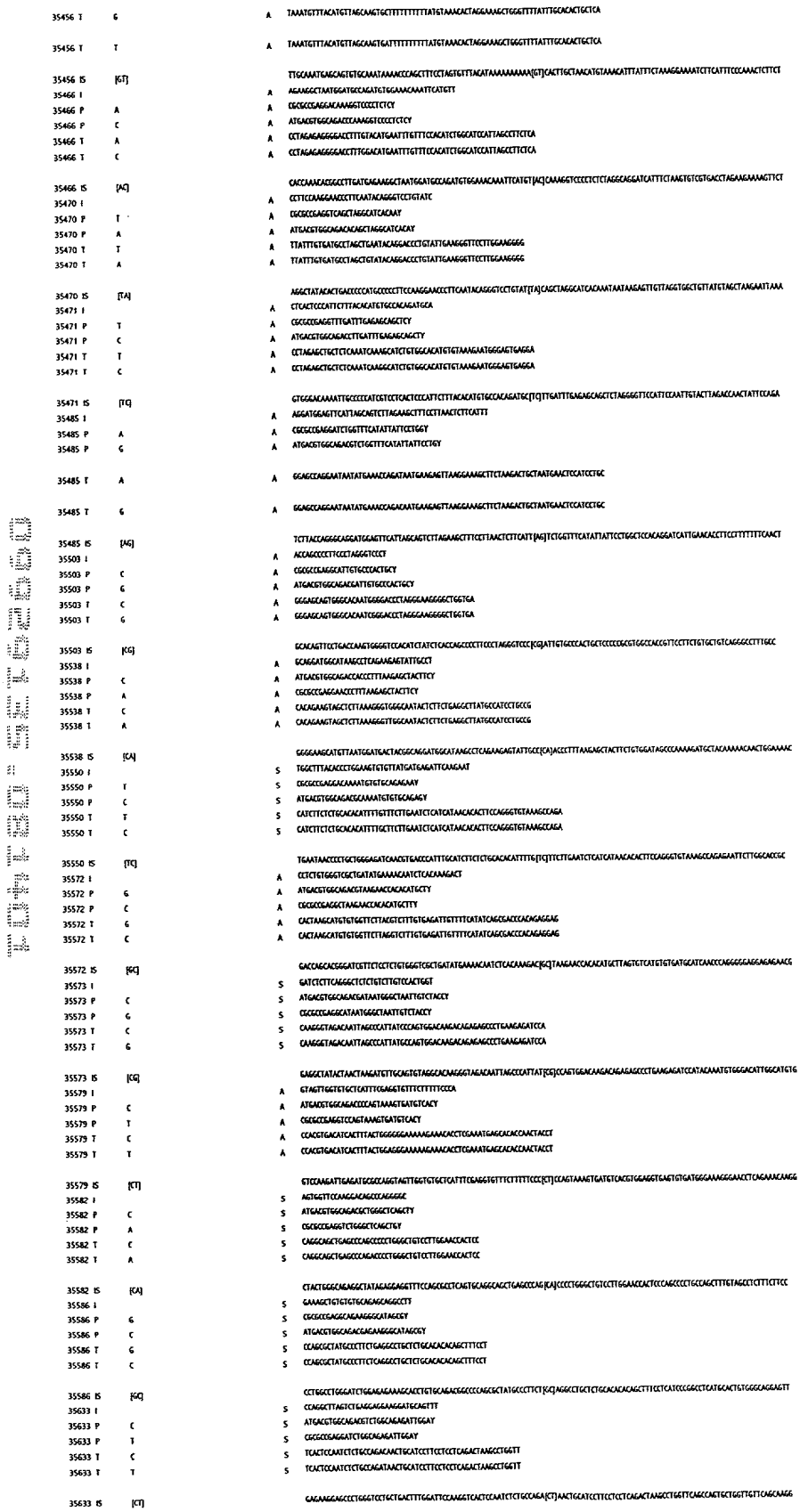

35456 T G A TAAATGTTTACATGTTAGCAAGTGCTTTTTTTTTTATGTAAACACTAGGAAAGCTGGGTTTTATTTGCACACTGCTCA
35456 T T A TAAATGTTTACATGTTAGCAAGTGATTTTTTTTTTATGTAAACACTAGGAAAGCTGGGTTTTATTTGCACACTGCTCA
35456 IS [GT] TTGCAAATGAGCAGTGTGCAAATAAAACCCAGCTTTCCTAGTGTTTACATAAAAAAAAA[GT]CACTTGCTAACATGTAAACATTTATTTCTAAAGGAAAATCTTCATTTCCCAAACTCTTCT
35466 I A AGAAGGCTAATGGATGCCAGATGTGGAAACAAATTCATGTT
35466 P A A CGCGCCCAGGACAAAGGTCCCCTCTCY
35466 P C A ATGACGTGGCAGACCCAAAGGTCCCCTCTCY
35466 T A A CCTAGAGAGAGGGGAACCTTTGTACATGAATTTGTTTCCACATCTGGCATCCATTAGCCTTCTCA
35466 T C A CCTAGAGAGAGGGGAACCTTTGGACATGAATTTGTTTCCACATCTGGCATCCATTAGCCTTCTCA
35466 IS [AC] CACCAAACACGGCCTTGATGAGAAGGCTAATGGATGCCAGATGTGGAAACAAATTCATGT[AC]CAAAGGTCCCCTCTCTAGGCAGGATCATTTCTAAGTGTCGTGACCTAGAAGAAAAGTTCT
35470 I A CCTTCCAAGGAAACCCTTCAATACAGGGTCCTGTATC
35470 P T A CGCGCCCAGGTCAGCTAGGCATCACAAT
35470 P A A ATGACGTGGCAGACACAGCTAGGCATCACAY
35470 T T A TTATTTGTGATGCCTAGCTGAATACAGGACCCTGTATTGAAGGGTTCCTTGGAAGGGG
35470 T A A TTATTTGTGATGCCTAGCTGTATACAGGACCCTGTATTGAAGGGTTCCTTGGAAGGGG
35470 IS [TA] AGGCTATACACTGACCCCCATGCCCCTTCCAAGGAACCCTTCAATACAGGGTCCTGTAT[TA]CAGCTAGGCATCACAAATAATAAGAGTTGTTAGGTGGCTGTTATGTAGCTAAGAATTAAA
35471 I A CTCACTCCCATTCTTTACACATGTGCCACAGATGCA
35471 P T A CGCGCCCAGAGTTTGATTTGAGAGCAGCTCY
35471 P C A ATGACGTGGCAGACCTTGATTTGAGAGCAGCTY
35471 T T A CCTAGAGCTGCTCTCAAATCAAAGCATCTGTGGCACATGTGTAAAGAATGGGAGTGAGGA
35471 T C A CCTAGAGCTGCTCTCAAATCAAGGCATCTGTGGCACATGTGTAAAGAATGGGAGTGAGGA
35471 IS [TC] GTGGGACAAAATTGCCCCCATCGTCCTCACTCCCATTCTTTACACATGTGCCACAGATGC[TC]TTGATTTGAGAGCAGCTCTAGGGGTTCCATTCCAATTGTACTTAGACCAACTATTCCAGA
35485 I A AGGATGGAGTTCATTAGCAGTCTTAGAAGCTTTCCTTAACTCTTCATTT
35485 P A A CGCGCCGAGGATCTGGTTTCATATTATTCCTGGY
35485 P G A ATGACGTGGCAGACGTCTGGTTTCATATTATTCCTGY
35485 T A A GGAGCCAGGAATATATATGAAACCAGATAATGAAGAGTTAAGGAAAGCTTCTAAGACTGCTAATGAACTCCATCCTGC
35485 T G A GGAGCCAGGAATATATGAAACCAGACAATGAAGAGTTAAGGAAAGCTTCTAAGACTGCTAATGAACTCCATCCTGC
35485 IS [AG] TCTTACCAGGGCAGGATGGAGTTCATTAGCAGTCTTAGAAGCTTTCCTTAACTCTTCATT[AG]TCTGGTTTCATATTATTCCTGGCTCCACAGGATCATTGAACACCTTCCTTTTTTTCAACT
35503 I A ACCAGCCCCTTCCCTAGGGTCCCT
35503 P C A CGCGCCCAGGCATTGTGCCCACTGCY
35503 P G A ATGACGTGGCAGACGATTGTGCCCACTGCY
35503 T C A GGGAGCAGTGGGCACAATGGGGACCCTAGGGAAGGGGCTGGTGA
35503 T G A GGGAGCAGTGGGCACAATCGGGACCCTAGGGAAGGGGCTGGTGA
35503 IS [CG] GCACAGTTCCTGACCAAGTGGGGTCCACATCTATCTCACCAGCCCCTTCCCTAGGGTCCC[CG]ATTGTGCCCACTGCTCCCCCCGCGTGGCCACCGTTCCTTCTGTGCTGTCAGGGCCTTTGCC
35538 I A GCAGGATGGCATAAGCCTCAGAAGAGTATTGCCT
35538 P C A ATGACGTGGCAGACCACCTTTAAGAGCTACTTCY
35538 P A A CGCGCCGAGGAACCCTTTAAGAGCTACTTCY
35538 T C A CACAGAAGTAGCTCTTAAAGGGTGGGCAATACTCTTCTGAGGCTTATGCCATCCTGCCG
35538 T A A CACAGAAGTAGCTCTTAAAGGGTTGGCAATACTCTTCTGAGGCTTATGCCATCCTGCCG
35538 IS [CA] GGGGAAGCATGTTAATGGATGACTACGGCAGGATGGCATAAGCCTCAGAAAGAGTATTGCC[CA]ACCCTTTAAGAGCTACTTCTGTGGATAGCCCAAAAGATGCTACAAAAACAACTGGAAAAC
35550 I S TGGCTTTACACCCTGGAAGTGTGTTATGATGAGATTCAAGAAT
35550 P T S CGCGCCGAGGACAAAATGTGTGCAGAGAAY
35550 P C S ATGACGTGGCAGACGCAAAATGTGTGCAGAGY
35550 T T S CATCTTCTCTGCACACATTTTGTTTCTTGAATCTCATCATAACACACTTCCAGGGTGTAAAGCCAGA
35550 T C S CATCTTCTCTGCACACATTTTGCTTCTTGAATCTCATCATAACACACTTCCAGGGTGTAAAGCCAGA
35550 IS [TC] TGAATAACCCCTGCTGGGAGATCAACGTGACCCATTTGCATCTTCTCTGCACACATTTTG[TC]TTCTTGAATCTCATCATAACACACTTCCAGGGTGTAAAGCCAGAGAATTCTTGGCACCGC
35572 I A CCTCTGTGGGTCGCTGATATGAAAACAATCTCACAAAGACT
35572 P G A ATGACGTGGCAGACGTAAGAACCACACATGCTY
35572 P C A CGCGCCGAGGCTAAGAACCACACATGCTTY
35572 T G A CACTAAGCATGTGTGGTTCTTAGGTCTTTGTGAGATTGTTTTCATATCAGCGACCCACAGAGGAG
35572 T C A CACTAAGCATGTGTGGTTCTTAGGTCTTTGTGAGATTGTTTTCATATCAGCGACCCACAGAGGAG
35572 IS [GC] GACCAGCACGGGATCGTTCTCCTCTGTGGGTCGCTGATATGAAAACAATCTCACAAAGAC[GC]TAAGAACCACACATGCTTAGTGTCATGTGTGATGCATCAACCCAGGGGGAGGAGAGAACG
35573 I S GATCTCTTCAGGGCTCTCTGTCTTGTCCACTGGT
35573 P C S ATGACGTGGCAGACGATAATGGGCTAATTGTCTACCY
35573 P G S CGCGCCCAGGCATAATGGGCTAATTGTCTACCY
35573 T C S CAAGGGTAGACAATTAGCCCATTATCCCAGTGGACAAGACAGAGAGCCCTGAAGAGATCCA
35573 T G S CAAGGGTAGACAATTAGCCCATTATGCCAGTGGACAAGACAGAGAGCCCTGAAGAGATCCA
35573 IS [CG] GAGGCTATACTAACTAAGATGTTGCAGTGTAGGCACAGGGTAGACAATTAGCCCATTAT[CG]CCAGTGGACAAGACAGAGAGCCCTGAAGAGATCCATACAAATGTGGGACATTGGCATGTG
35579 I A GTAGTTGGTGTGCTCATTTCGAGGTGTTTCTTTTTCCCA
35579 P C A ATGACGTGGCAGACCCCAGTAAAGTGATGTCACY
35579 P T A CGCGCCGAGGTCCAGTAAAGTGATGTCACY
35579 T C A CCACGTGACATCACTTTACTGGGGGGAAAAAGAAAACACCTCGAAATGAGCACACCAACTACCT
35579 T T A CCACGTGACATCACTTTACTGGAGGGAAAAAGAAAACACCTCGAAATGAGCACACCAACTACCT
35579 IS [CT] GTCCAAGATTGAGATGCGCCAGGTAGTTGGTGTGCTCATTTCGAGGTGTTTCTTTTTCCCC[CT]CCAGTAAAGTGATGTCACGTGGAGGTGAGTGTGATGGGAAAGGGAACCTCAGAAACAAGG
35582 I S AGTGGTTCCAAGCACAGCCCAGGGGC
35582 P C S ATGACGTGGCAGACGCTGGGCTCAGCTY
35582 P A S CGCGCCGAGGTCTGGGCTCAGCTGY
35582 T C S CAGGCAGCTGAGCCCAGCCCCTGGGCTGTCCTTGGAACCACTCC
35582 T A S CAGGCAGCTGAGCCCAGCCCCTGGGCTGTCCTTGGAACCACTCC
35582 IS [CA] CTACTGGGCAGAGGCTATAGAGAGAGGTTTCCAGCGCCTCAGTGCAGGCAGCTGAGCCCAG[CA]CCCCTGGGCTGTCCTTGGAACCACTCCCAGCCCCTGCCAGCTTTGTAGCCTCTTCTTCC
35586 I S GAAAGCTGTGTGTGCAGAGCAGGCCTT
35586 P G S CGCGCCGAGGCAGAAGGGCATAGCGY
35586 P C S ATGACGTGGCAGACAGAAGGGCATAGCGY
35586 T G S CCAGCGCTATGCCCTTCTCAGGCCTGCTCTGCACACACAGCTTTCCT
35586 T C S CCAGCGCTATGCCCTTCTCAGGCCTGCTCTGCACACACAGCTTTCCT
35586 IS [GC] CCTGGCCTGGGATCTGGAGAGAAAGCACCTGTGCAGACGCCCCAGCGCTATGCCCTTCT[GC]AGGCCTGCTCTGCACACACAGCTTTCCTCATCCCGGCCTCATGCACTGTGGGCAGGAGTT
35633 I S CCAGGCTTAGTCTGAAGCAGAAGGAATGCAGTTT
35633 P C S ATGACGTGGCAGACGTCTGGCAGAGATTGGAY
35633 P T S CGCGCCGAGGATCTGGCAGAGATTGGAY
35633 T C S TCACTCCAATCTCTGCAGACAACTGCATCCTTCCTCCTCAGACTAAGCCTGGTT
35633 T T S TCACTCCAATCTCTGCAGATAACTGCATCCTTCCTCCTCAGACTAAGCCTGGTT
35633 IS [CT] GAGAAGGAGCCCTGGGTCCTGCTGACTTTGGATTCCAAGGTCACTCCAATCTCTGCCAGA[CT]AACTGCATCCTTCCTCCTCAGACTAAGCCTGGTTCAGCCAGTGCTGGTTGTTCAGCAAGG

FIGURE 129F

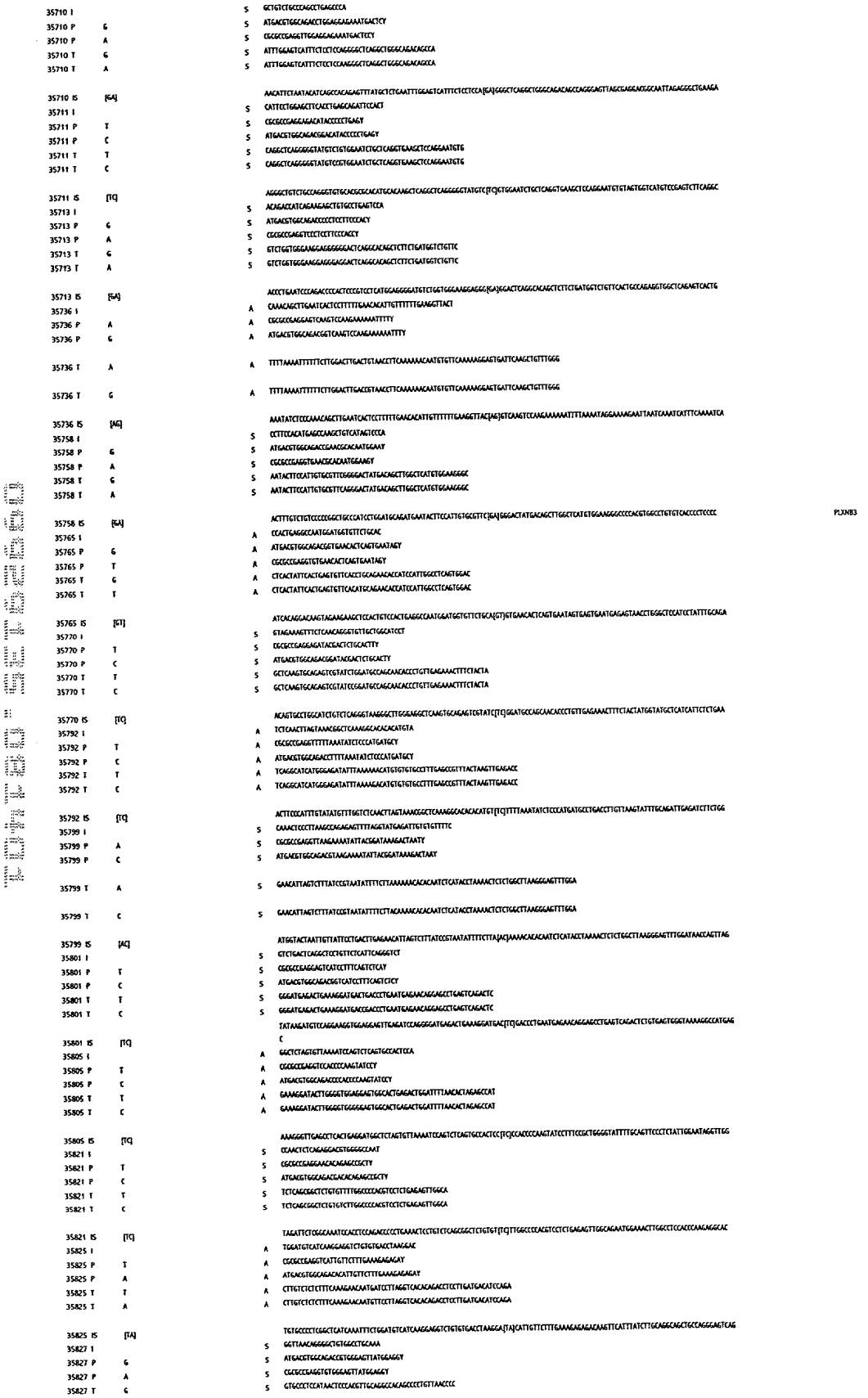
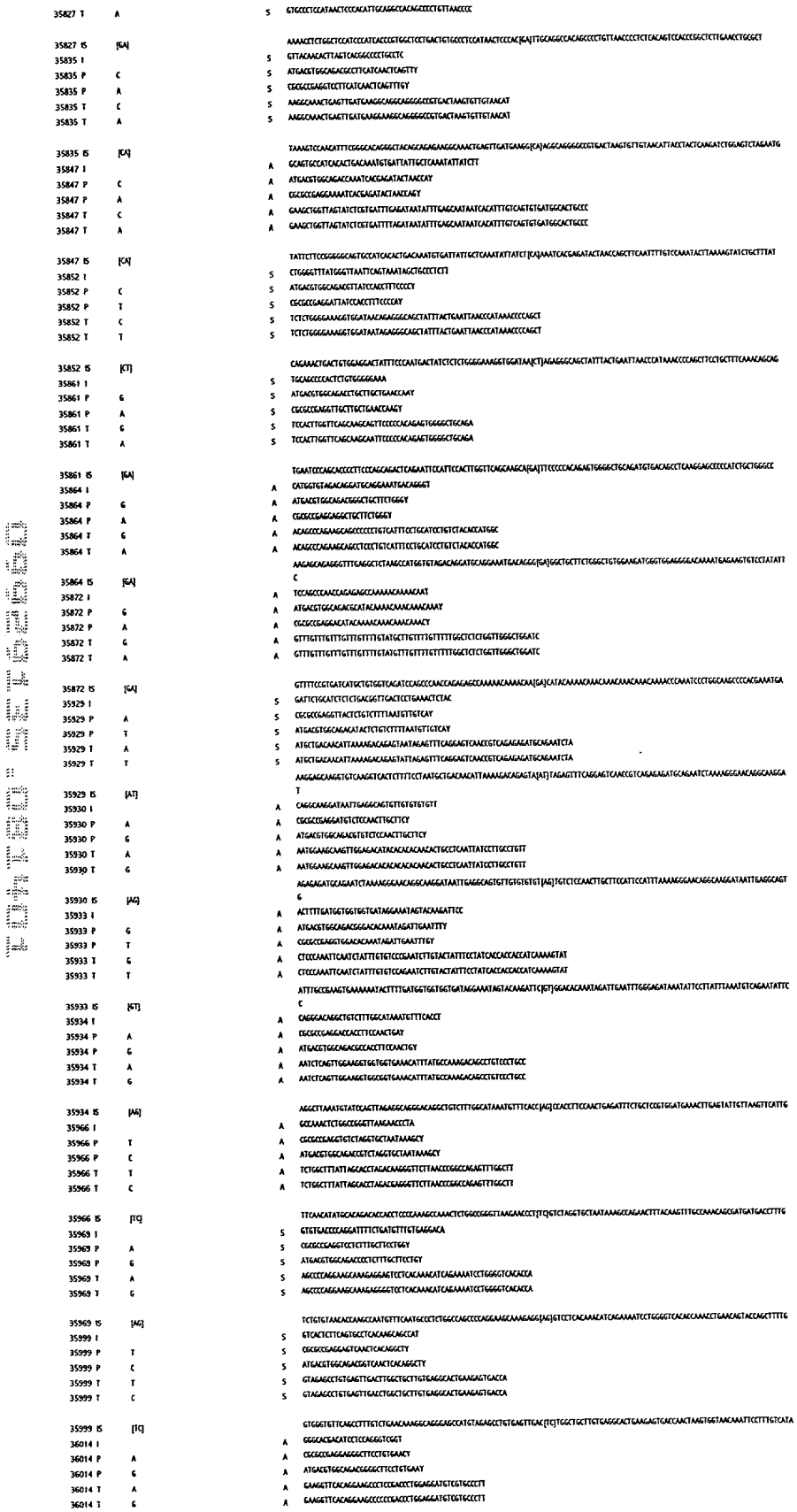

35710 I
35710 P G
35710 P A
35710 T G
35710 T A
35710 IS [GA]
35711 I
35711 P T
35711 P C
35711 T T
35711 T C
35711 IS [TC]
35713 I
35713 P G
35713 P A
35713 T G
35713 T A
35713 IS [GA]
35736 I
35736 P A
35736 P G
35736 T A
35736 T G
35736 IS [AG]
35758 I
35758 P G
35758 P A
35758 T G
35758 T A
35758 IS [GA]
35765 I
35765 P G
35765 P T
35765 T G
35765 T T
35765 IS [GT]
35770 I
35770 P T
35770 P C
35770 T T
35770 T C
35770 IS [TC]
35792 I
35792 P T
35792 P C
35792 T T
35792 T C
35792 IS [TC]
35799 I
35799 P A
35799 P C
35799 T A
35799 T C
35799 IS [AC]
35801 I
35801 P T
35801 P C
35801 T T
35801 T C
35801 IS [TC]
35805 I
35805 P T
35805 P C
35805 T T
35805 T C
35805 IS [TC]
35821 I
35821 P T
35821 P C
35821 T T
35821 T C
35821 IS [TC]
35825 I
35825 P T
35825 P A
35825 T T
35825 T A
35825 IS [TA]
35827 I
35827 P G
35827 P A
35827 T G
PJXNB3

FIGURE 129F



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FIGURE 129F

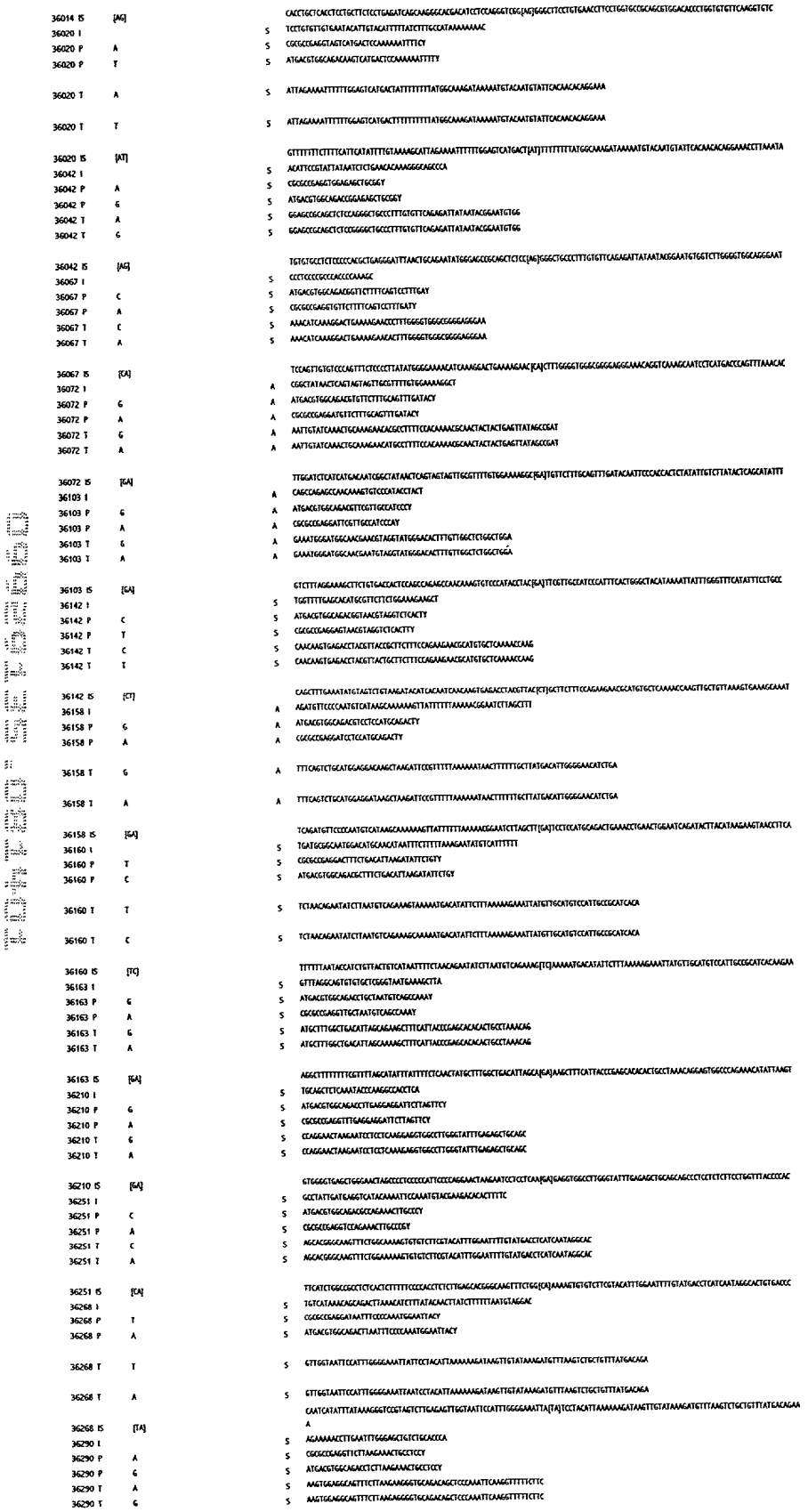

36014 IS [AG] CACCTGCTCACCTCCTGCTTCTCCTGAGATCAGCAAGGGCACGACATCCTCCAGGGTCGG[AG]GGGCTTCCTGTGAACCTTCCTGGTGCCGCAGCGTGGACACCCTGGTGTGTTCAAGGTGTC
36020 I S TCCTGTGTTGTGAATACATTGTACATTTTTATCTTTGCCATAAAAAAAC
36020 P A S CGCGCCGAAGGTAGTCATGACTCCAAAAAATTTTCY
36020 P T S ATGACGTGGCAGACAAGTCATGACTCCAAAAAATTTTY
36020 T A S ATTAGAAAATTTTTTGGAGTCATGACTATTTTTTTTATGGCAAAGATAAAAATGTACAATGTATTCACAACACAGGAAA
36020 T T S ATTAGAAAATTTTTTGGAGTCATGACTTTTTTTTTTATGGCAAAGATAAAAATGTACAATGTATTCACAACACAGGAAA
36020 IS [AT] GTTTTTTTCTTTTCATTCATATTTTGTAAAAGCATTAGAAAATTTTTTGGAGTCATGACT[AT]TTTTTTTTATGGCAAAGATAAAAATGTACAATGTATTCACAACACAGGAAACCTTAAATA
36042 I S ACATTCCGTATTATAATCTCTGAACACAAAGGGCAGCCCA
36042 P A S CGCGCCGAGGTGGAGAGCTGCGGY
36042 P G S ATGACGTGGCAGACGGAGAGCTGCGGY
36042 T A S GGAGCCGCAGCTCTCCAGGGGCTGCCCTTTGTGTTCAGAGATTATAATACGGAATGTGG
36042 T G S GGAGCCGCAGCTCTCCGGGGCTGCCCTTTGTGTTCAGAGATTATAATACGGAATGTGG
36042 IS [AG] TGTGTGCCTCTCCCCCACGCTGAGGGATTTAACTGCAGAATATGGCAGCCGCAGCTCTCC[AG]GGGCTGCCCTTTGTGTTCAGAGATTATAATACGGAATGTGGTCTTGGGGTGGCAGGGAAT
36067 I S CCCTCCCCCGCCCACCCCAAAGC
36067 P C S ATGACGTGGCAGACGGTCTTTTCAGTCCTTTGAY
36067 P A S CGCGCCGAGGTGTTCTTTTCAGTCCTTTGATY
36067 T C S AAACATCAAAGGACTGAAAAGAACCCTTTGGGGTGGGCCGGGGAGGGAA
36067 T A S AAACATCAAAGGACTGAAAAGAACACTTTGGGGTGGGCGGGGAGGGAA
36067 IS [CA] TCCAGTTGTGTCCCAGTTTCTCCCCCTTATATGGGGAAAACATCAAAGGACTGAAAAGAAC[CA]CTTTGGGGTGGGCGGGGAGGGAAACAGGTCAAAGCAATCCTCATGACCCAGTTTAAACAC
36072 I A CGGCTATAACTCAGTAGTAGTTGCGTTTTGTGGAAAAGGCT
36072 P G A ATGACGTGGCAGACGTGTTCTTTGCAGTTTGATACY
36072 P A A CGCGCCGAGGATGTTCTTTGCAGTTTGATACY
36072 T G A AATTGTATCAAACTGCAAAGAACACGCCTTTTCCACAAAACGCAACTACTACTGAGTTATAGCCGAT
36072 T A A AATTGTATCAAACTGCAAAGAACATGCCTTTTCCACAAAAGCAACTACTACTGAGTTATAGCCGAT
36072 IS [GA] TTGGATCTCATCATGACAATCGGCTATAACTCAGTAGTAGTTGCGTTTTGTGGAAAAGGC[GA]TGTTCTTTGCAGTTTGATACAATTCCCACCACTCTATATTGTCTTATACTCAGCATATTT
36103 I A CAGCCAGAGCCAACAAAGTGTCCCATACCTACT
36103 P G A ATGACGTGGCAGAGCTTCGTTGCCATCCCY
36103 P A A CGCGCCGAGGATTCGTTGCCATCCCAY
36103 T G A GAAATGGGATGGCAACGAACGTAGGTATGGGAACACTTTGTTGGCTCTGGCTGGA
36103 T A A GAAATGGGATGGCAACGAATGTAGGTATGGGAACACTTTGTTGGCTCTGGCTGGA
36103 IS [GA] GTCTTTAGGAAAGCTTCTGTGACCACTCCAGCCAGAGCCAACAAAGTGTCCCATACCTAC[GA]TTCGTTGCCATCCCATTTCACTGGGCTACATAAAATTATTTGGGTTTCATATTTCCTGCC
36142 I S TGGTTTTGAGCACATGCGTTCTTCTGGAAACAAGCT
36142 P C S ATGACGTGGCAGACGGTAACGTAGGTCTCYACTY
36142 P T S CGCGCCGAGGAGTAACGTAGGTCTCYACTTY
36142 T C S CAACAAGTGAGACCTACGTTACTGCTTCTTTCCAGAAGAACGCATGTGCTCAAAACCAAG
36142 T T S CAACAAGTGAGACCTACGTTACTGCTTCTTTCCAGAAGAACGCATGTGCTCAAAACCAAG
36142 IS [CT] CAGCTTTGAAATATGTAGTCTGTAAGATACATCACAATCAACAAGTGAGACCTACGTTAC[CT]GCTTCTTTCCAGAAGAACGCATGTGCTCAAAACCAAGTTGCTGTTAAAGTGAAAGCAAAT
36158 I A AGATGTTCCCCAATGTCATAAGCAAAAAAGTTATTTTTTAAAAACGGAATCTTAGCTTT
36158 P G A ATGACGTGGCAGACGTCCTCCATGCAGACTY
36158 P A A CGCGCCGAGGATCCTCCATGCAGACTY
36158 T G A TTTCAGTCTGCATGGAGGACAAGCTAAGATTCCGTTTTTAAAAAATAACTTTTTGCTTATGACATTGGGGAAACATCTGA
36158 T A A TTTCAGTCTGCATGGAGGATAAGCTAAGATTCCGTTTTTAAAAAATAACTTTTTGCTTATGACATTGGGGAAACATCTGA
36158 IS [GA] TCAGATGTTCCCCAATGTCATAAGCAAAAAAGTTATTTTTTAAAAACGGAATCTTAGCTT[GA]TCCTCCATGCAGACTGAAACCTGAACTGGAATCAGATACTTACATAAGAAGTAACCTTCA
36160 I S TGATGCGGCAATGGACATGCAACATAATTTCTTTTTAAAGAATATGTCATTTTTT
36160 P T S CGCGCCGAAGGACTTTCTGACATTAAGATATTCTGTY
36160 P C S ATGACGTGGCAGACGCTTTCTGACATTAAGATATTCTGY
36160 T T S TCTAACAGAATATCTTAATGTCAGAAAGTAAAAATGACATATTCTTTAAAAAGAAATTATGTTGCATGTCCATTGCCGCATCACA
36160 T C S TCTAACAGAATATCTTAATGTCAGAAAGCAAAAATGACATATTCTTTAAAAAGAAATTATGTTGCATGTCCATTGCCGCATCACA
36160 IS [TC] TTTTTTAATACCATCTGTTACTGTCATAATTTTCTAACAGAATATCTTAATGTCAGAAAG[TC]AAAAATGACATATTCTTTAAAAAGAAATTATGTTGCATGTCCATTGCCGCATCACAGAA
36163 I S GTTTAGGCAGTGTGTGCTCGGGTAATGAAAGCTTA
36163 P G S ATGACGTGGCAGACCTGCTAATGTCAGCCAAAT
36163 P A S CGCGCCGAGGTTGCTAATGTCAGCCAAAT
36163 T G S ATGCTTTGGCTGACATTAGCAGAAGCTTTCATTACCCGAGCACACACTGCCTAAACAG
36163 T A S ATGCTTTGGCTGACATTAGCAAAAGCTTTCATTACCCGAGCACACACTGCCTAAACAG
36163 IS [GA] AGGCTTTTTTTCGTTTTAGCATATTTATTTTCTCAACTATGCTTTGGCTGACATTAGCA[GA]AAGCTTTCATTACCCGAGCACACACTGCCTAAACAGGAGTGGCCCAGAAACATATTAAGT
36210 I S TGCAGCTCTCAAATACCCAAGGCCACCTCA
36210 P G S ATGACGTGGCAGACCTTGAGCAGGAATTCCTAGTTCY
36210 P A S CGCGCCGAGGTTTGAGGAGGATTCCTAGTTCY
36210 T G S CCAGGAACTAAGAATCCTCCTCAAGGAGGTGGCCTTGGGTATTTGAGAGCTGCAGC
36210 T A S CCAGGAACTAAGAATCCTCCTCAAAGAGGTGGCCTTGGGTATTTGAGAGCTGCAGC
36210 IS [GA] GTGGGGTGAGCTGGGAACTAGCCCCTCCCCCATTCCCCAGGAACTAAGAATCCTCCTCAA[GA]GAGGTGGCCTTGGGTATTTGAGAGCTGCAGCAGCCCTCCTCTCTTCCTGGTTTACCCCAC
36251 I S GCCTATTGATGAGGTCATACAAAATTCCAAATGTACGAAGAACACACTTTTC
36251 P C S ATGACGTGGCAGACGCCAGAAACTTGCCCY
36251 P A S CGCGCCGAGGTCCAGAAACTTGCCCGY
36251 T C S AGCACGGGCAAGTTTCTGGCAAAAGTGTGTCTTCGTACATTTGGAATTTTGTATGACCTCATCAATAGGCAC
36251 T A S AGCACGGGCAAGTTTCTGGAAAAAGTGTGTCTTCGTACATTTGGAATTTTGTATGACCTCATCAATAGGCAC
36251 IS [CA] TTCATCTGGCCGCCTCTCACTCTTTTTCCCCACCTCTCTTGAGCACCGGGCAAGTTTCTGG[CA]AAAAGTGTGTCTTCGTACATTTGGAATTTTGTATGACCTCATCAATAGGCACTGTGACCC
36268 I S TGTCATAAACAGCAGACTTAAACATCTTTATACAACTTATCTTTTTTAATGTAGGAC
36268 P T S CCGCCCGAGGATAATTTCCCCAAATGGAATTACY
36268 P A S ATGACGTGGCAGACTTAATTTCCCCAAATGGAATTACY
36268 T T S GTTGGTAATTCCATTTGGGGAAATTAATTCCTACATTAAAAAAGATAAGTTGTATAAAGATGTTTAAGTCTGCTGTTTATGACAGA
36268 T A S GTTGGTAATTCCATTTGGGGAAATTAATCCTACATTAAAAAAGATAAGTTGTATAAAGATGTTTAAGTCTGCTGTTTATGACAGA
36268 IS [TA] CAATCATATTTATAAAGGGTCCGTAGTCTTGAGAGTTGGTAATTCCATTTGGGGAAATTA[TA]TCCTACATTAAAAAAGATAAGTTGTATAAAGATGTTTAAGTCTGCTGTTTATGACAGAA
36290 I S ACAAAAACCTTGAATTTGGGAGCTGTCTGCACCCA
36290 P A S CGCGCCGAGGTCTTAAGAAACTGCCTCCY
36290 P G S ATGACGTGGCAGACCTCTTAAGAAACTGCCTCCY
36290 T A S AAGTGGAGGCAGTTTCTTAAGAAGGGTGCAGACAGCTCCCAAATTCAAGGTTTTTCTTC
36290 T G S AAGTGGAGGCAGTTTCTTAAGAGGGGTGCAGACAGCTCCCAAATTCAAGGTTTTTCTTC

FIGURE 129F

36290	IS	[AG]		GGCTTTTGCTCTTGACCAGAGGTAGCCCTCTGTGGGGGAAGTGGAGGCAGTTTCTTAAGA[AG]GGGTGCAGACAGCTCCCAAATTCAAGGTTTTTCTTCTTCTACCAGCCTATAATCCCAAAT
36306	I		A	TCAGTGCAGTGCAAACTGAATGCCGTCGAA
36306	P	T	A	CGCGCCGAGGTTGCTCTGTCTTCAACAGY
36306	P	C	A	ATGACGTGGCAGACCTGCTCTGTCTTCAACAGY
36306	T	T	A	ATCTCTGTTGAAGACAGAGCAATCGACGGCATTCAGTTTGCACTGCACTGATT
36306	T	C	A	ATCTCTGTTGAAGACAGAGCAGTCGACGGCATTCAGTTTGCACTGCACTGATT
36306	IS	[TC]		CAGGGACTGGGCAATGTACTGGAATCCCAAATCAGTGCAGTGCAAACTGAATGCCGTCGA[TC]TGCTCTGTCTTCAACAGAGATCAAAATACATCTCCGTTGAATGTAGGACTCACAGCAGAA
36345	I		A	ACGTTTCACCTGTGGACCAACATCTAAAAATAAAATGAGATCCCTT
36345	P	A	A	CGCGCCGAGGAATTTTGCAGTTTTTAAAATATTACCTY
36345	P	C	A	ATGACGTGGCAGACCATTTTGCAGTTTTTAAAATATTACCTY
36345	T	A	A	GGTGAGGTAATATTTTAAAAACTGCAAAATTAGGGATCTCATTTTATTTTTAGATGTTGGTCCACAGGTGAAACGTAT
36345	T	C	A	GGTGAGGTAATATTTTAAAAACTGCAAAATGAGGGATCTCATTTTATTTTTAGATGTTGGTCCACAGGTGAAACGTAT
36345	IS	[AC]		AAGAACCAGCCTGATACGTTTCACCTGTGGACCAACATCTAAAAATAAAATGAGATCCCT[AC]ATTTTGCAGTTTTTAAAATATTACCTCACCCTCCCCACCCTCCACAAAGTGAAACCTAAA
36391	I		S	AGTCTAACTTCAGTTCCTAGGAACTAAAATCCTGAATTTCTCATT
36391	P	T	S	CGCGCCGAGGAGGCAGTCTGAATTTAGGY
36391	P	C	S	ATGACGTGGCAGACGGGCAGTCTGAATTTAGGY
36391	T	T	S	CTGCCCTAAATTCAGACTGCCTATGAGAAATTCAGGATTTTAGTTCCTAGGAACTGAAGTTAGACTAA
36391	T	C	S	CTGCCCTAAATTCAGACTGCCCATGAGAAATTCAGGATTTTAGTTCCTAGGAACTGAAGTTAGACTAA
36391	IS	[TC]		GCACACATGATTTCCTTCTAAGGCATGTTATAAATTAGGCTGCCCTAAATTCAGACTGCC[TC]ATGAGAAATTCAGGATTTTAGTTCCTAGGAACTGAAGTTAGACTAATCAACCTAACAGAG
36393	I		A	ACAATCCACTTCAGCCTTGGATGAGAACACAAACTGAT
36393	P	A	A	CGCGCCGAGGACCCCAAATCCAAGGTY
36393	P	G	A	ATGACGTGGCAGACGCCCCAAATCCAAGGY
36393	T	A	A	AAGAACCTTGGATTTGGGGTTCAGTTTGTGTTCTCATCCAAGGCTGAAGTGGATTGTCT
36393	T	G	A	AAGAACCTTGGATTTGGGGCTCAGTTTGTGTTCTCATCCAAGGCTGAAGTGGATTGTCT
36393	IS	[AG]		CAGCATACACGCACCTCTGTAAGACAATCCACTTCAGCCTTGGATGAGAACACAAACTGA[AG]CCCCAAATCCAAGGTTCTTTCTGGTGTGAAGAGACAAACACTATCCTAGTAAGTAGAGCT
36396	I		A	CGGTAGCTTTTGCCTCCTGGAGCCCAA
36396	P	C	A	ATGACGTGGCAGACCAGTCCAGATGGGGACY
36396	P	T	A	CGCGCCGAGGTAGTCCAGATGGGGACAY
36396	T	C	A	TTTTTGTCCCCATCTGGACTGTGGGCTCCAGGAGGCAAAAGCTACCGGC
36396	T	T	A	TTTTTGTCCCCATCTGGACTATGGGCTCCAGGAGGCAAAAGCTACCGGC
36396	IS	[CT]		TCAGCCTGCAGCTCCGAAGGGGCAGAGTGCAAGCCGGTAGCTTTTGCCTCCTGGAGCCCA[CT]AGTCCAGATGGGGACAAAAAAAGAGATAGGGACACAAAGAGTGATCACTGAGCCAGAGGG
36404	I		S	GCTTGAATTCTTGATCTTCAAGAGCATCATGGGCCATCA
36404	P	G	S	ATGACGTGGCAGACCGGCCCTTCCTTTGTY
36404	P	A	S	CGCGCCGAGGTGGCCCTTCCTTTGTY
36404	T	G	S	AATCACAAAGGAAGGGCCGGATGGCCCATGATGCTCTTGAAGATCAAGAATTCAAGCCA
36404	T	A	S	AATCACAAAGGAAGGGCCAGATGGCCCATGATGCTCTTGAAGATCAAGAATTCAAGCCA
36404	IS	[GA]		AGGACTGCAGGAGCAAAGAGGCTCTCACTGAGGAAGAAGAACAATCACAAAGGAAGGGCC[GA]GATGGCCCATGATGCTCTTGAAGATCAAGAATTCAAGCCAAAAGAAAAAAGCAGGTTAA G
36409	I		A	TCACCTTCATTATTTCTGAGGAAAGTTTAGACCACCAGATATTTAACACCAAATT
36409	P	A	A	CGCGCCGAGGAGATGGCACCATGTCTAY
36409	P	G	A	ATGACGTGGCAGACGGATGGCACCATGTCY
36409	T	A	A	CTAGTAGACATGGTGCCATCTATTTGGTGTTAAATATCTGGTGGTCTAAACTTTCCTCAGAAATAATGAAGGTGACT
36409	T	G	A	CTAGTAGACATGGTGCCATCCATTTGGTGTTAAATATCTGGTGGTCTAAACTTTCCTCAGAAATAATGAAGGTGACT
36409	IS	[AG]		TTTCAGTCACCTTCATTATTTCTGAGGAAAGTTTAGACCACCAGATATTTAACACCAAAT[AG]GATGGCACCATGTCTACTAGAAAGTCCAGAAGCTGATTTCTCACCATCATCAGGATCTCA
36507	I		S	CATATGAGGGCTTGGACTTCACTTCCTACTTCTT
36507	P	T	S	CGCGCCGAGGAAAGAGGAAGCTCCAGGY
36507	P	G	S	ATGACGTGGCAGACCAAGAGGAAGCTCCAGGY
36507	T	T	S	TCGGCCTGGAGCTTCCTCTTTAGAAGTAGGAAGTGAAGTCCAAGCCCTCATATGTT
36507	T	G	S	TCGGCCTGGAGCTTCCTCTTGAGAAGTAGGAAGTGAAGTCCAAGCCCTCATATGTT
36507	IS	[TG]		GCACACATCACAATTGCTGACTAAAGTTTGGCAAGACCTATCGGCCTGGAGCTTCCTCTT[TG]AGAAGTAGGAAGTGAAGTCCAAGCCCTCATATGTTTAGAAAAGTATGCAAGTTTTCTGAT
36521	I		S	TCAAGAAAGGGAGATAGAGAGAGAAGAGAGAGAGAGGAGAGAGT
36521	P	T	S	CGCGCCGAGGAGAGAGAGAGAGAAGACAGAGY
36521	P	C	S	ATGACGTGGCAGACGGAGAGAGAGAGAAGACAGAGY
36521	T	T	S	TCTCCTCTGTCTTCTCTCTCTCTCTCTCTCCTCTCTCTCTCTTCTCTCTCTATCTCCCTTTCTTGACT
36521	T	C	S	TCTCCTCTGTCTTCTCTCTCTCCCTCTCTCCTCTCTCTCTCTTCTCTCTCTATCTCCCTTTCTTGACT
36521	IS	[TC]		CTCTCTTCTCTCTCTCTCCTCTTTCTTCTCTCTCTCTCTCTCTCCTCTGTCTTCTCTCTCTC[TC]CTCTCTCCTCTCTCTCTCTTCTCTCTCTATCTCCCTTTCTTGACTCACACATAGGCCCCC
36552	I		S	AGAGAAATGGCTTGTCCATTTCTATTAACTATATAAGATTTAAGTTATTCTGTATTTCAGC
36552	P	A	S	CGCGCCGAGGTCAACCATTCTGAGTACCTY
36552	P	C	S	ATGACGTGGCAGACGCAACCATTCTGAGTACCY
36552	T	A	S	TAGTAGGTACTCAGAATGGTTGACTGAAATACAGAATAACTTAAATCTTATATAGTTAATAGAAATGGACAAGCCATTTCTCT
36552	T	C	S	TAGTAGGTACTCAGAATGGTTGCCTGAAATACAGAATAACTTAAATCTTATATAGTTAATAGAAATGGACAAGCCATTTCTCT
36552	IS	[AC]		GTCATGACATACTCAGTACCAGTTGCATTCGTGGCAGGTAGTAGGTACTCAGAATGGTTG[AC]CTGAAATACAGAATAACTTAAATCTTATATAGTTAATAGAAATGGACAAGCCATTTCTCT
36556	I		A	TGCCTTATCCTGCTTTTGGCATGGTCTTGCTT
36556	P	G	A	ATGACGTGGCAGACGCAGTATTAGGAGTCAAATGCY
36556	P	A	A	CGCGCCGAGGACAGTATTAGGAGTCAAATGCY
36556	T	G	A	GTCAGCATTTGACTCCTAATACTGCAGCAAGACCATGCCAAAAGCAGGATAAGGCAAG
36556	T	A	A	GTCAGCATTTGACTCCTAATACTGTAGCAAGACCATGCCAAAAGCAGGATAAGGCAAG
36556	IS	[GA]		TCTTTTTTTAGCACCAAAGATGCTGGTCTTGCCTTATCCTGCTTTTGGCATGGTCTTGCT[GA]CAGTATTAGGAGTCAAATGCTGACCTAAAATTTGGTGTCCTTTTAATCTGGAACTCATGA
36564	I		S	AGCTCTGCAATTGCAAAGAAAAAAGCCCTAGTCCAGAATTATTTTTT
36564	P	T	S	CGCGCCGAGGAGAATGCAAGAGAGGCCY
36564	P	C	S	ATGACGTGGCAGACGGAATGCAAGAGAGGCY
36564	T	T	S	ATTTGGCCTCTCTTGCATTCTAAAAATAATTCTGGACTAGGGCTTTTTTCTTTGCAATTGCAGAGCTGC
36564	T	C	S	ATTTGGCCTCTCTTGCATTCCAAAAATAATTCTGGACTAGGGCTTTTTTCTTTGCAATTGCAGAGCTGC
36564	IS	[TC]		CCTCTCCACTTTTCCTTTTTCTGATATAGTACAGCAATGTATTTGGCCTCTCTTGCATTC[TC]AAAAATAATTCTGGACTAGGGCTTTTTTCTTTGCAATTGCAGAGCTGCCTGGGCTCACAG
36599	I		A	GCTGGTTGGGCTGGTAATGCTGGACAAAGT
36599	P	A	A	CGCGCCGAGGACAATGGGTGGAATGGTY
36599	P	G	A	ATGACGTGGCAGACGCAATGGGTGGAATGGY
36599	T	A	A	GCAAACCATTCCACCCATTGTCTTTGTCCAGCATTACCAGCCCAACCAGCCA
36599	T	G	A	GCAAACCATTCCACCCATTGCCTTTGTCCAGCATTACCAGCCCAACCAGCCA
36599	IS	[AG]		GGGCAGCATTGGCCTGAGTGGCCTGAGTTTGGCTGGTTGGGCTGGTAATGCTGGACAAAG[AG]CAATGGGTGGAATGGTTTGCTTCCCTCAGTCCTTTCAGACACAGCCCAGCCCACCACGTC

FIGURE 129F

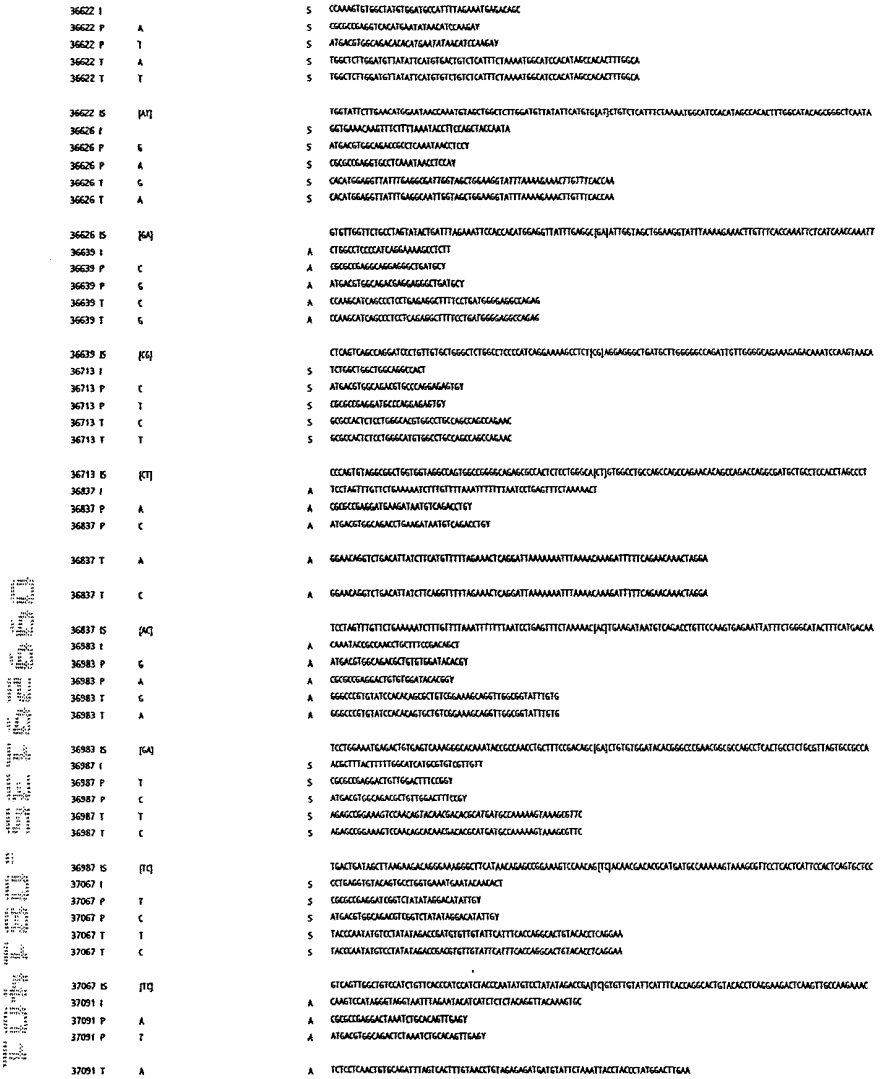


FIGURE 129F

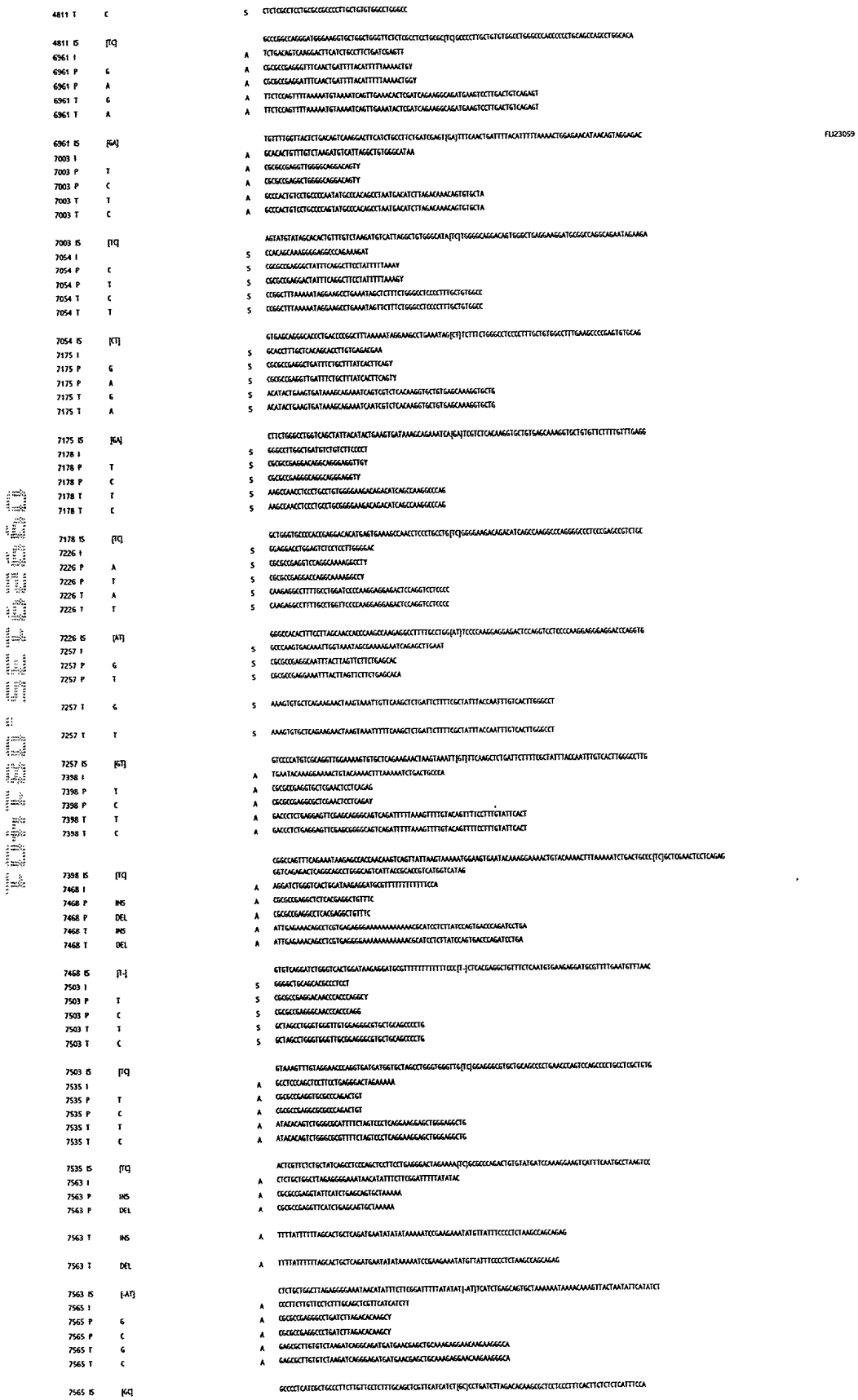


FIGURE 129F

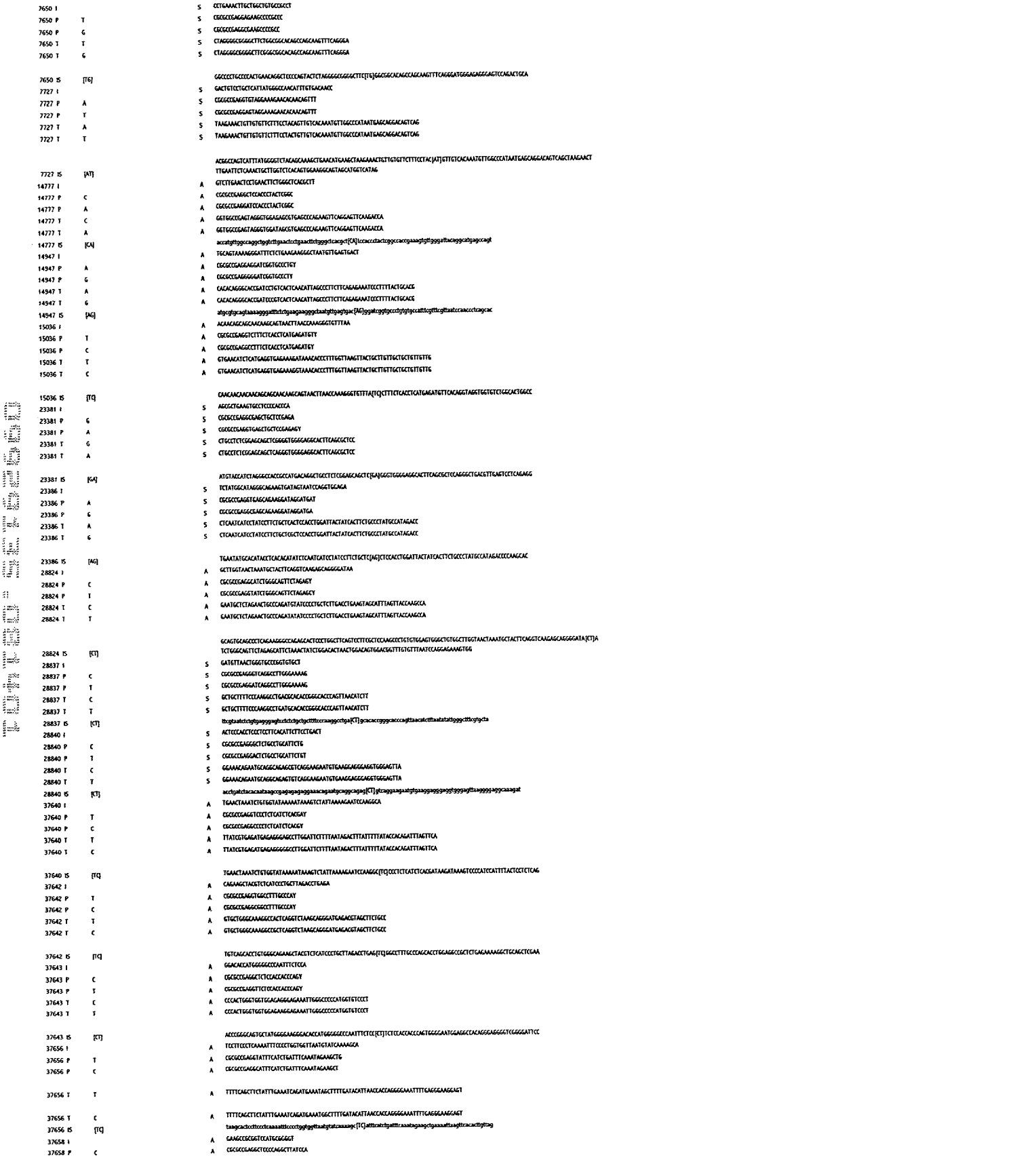
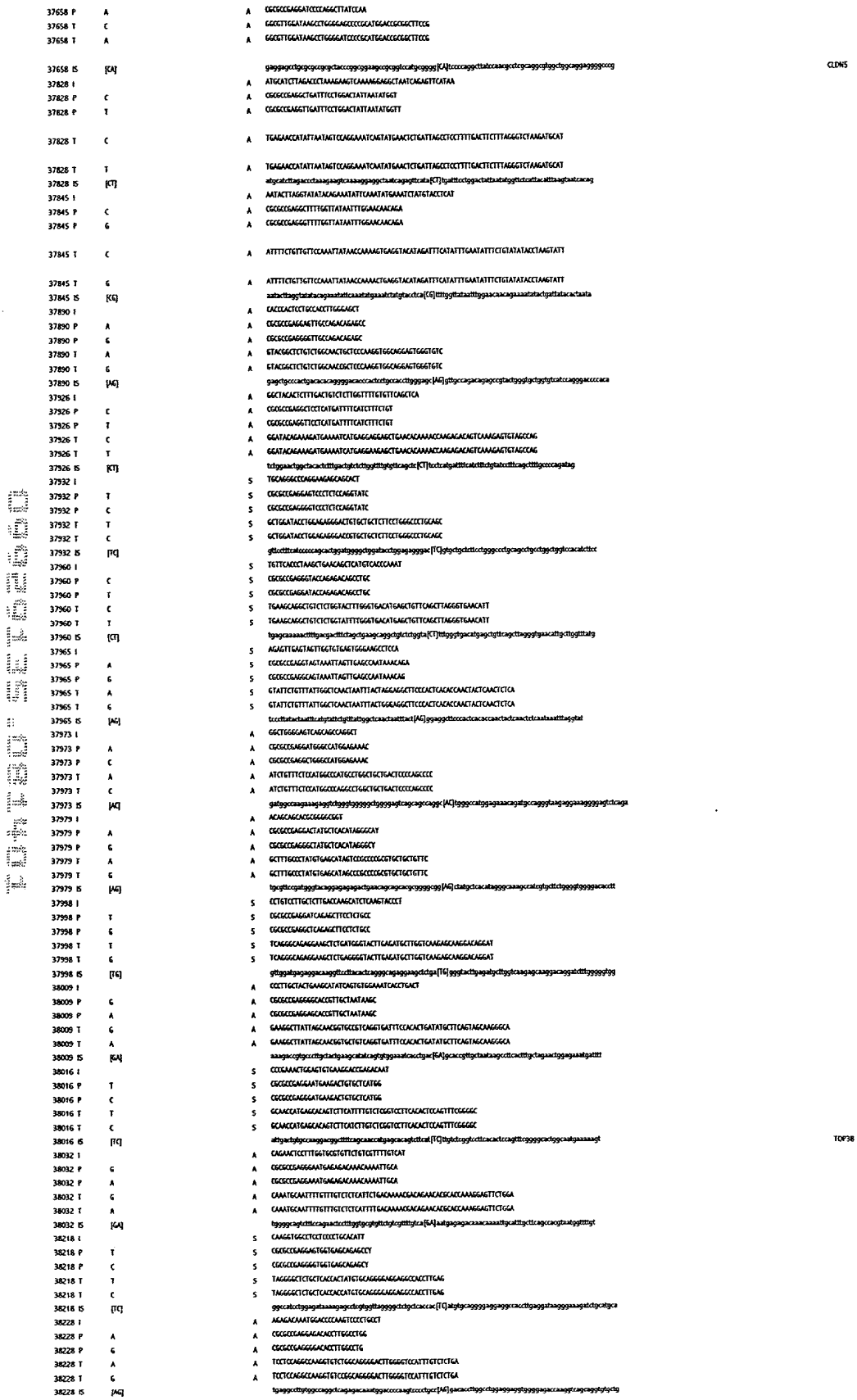


FIGURE 129F



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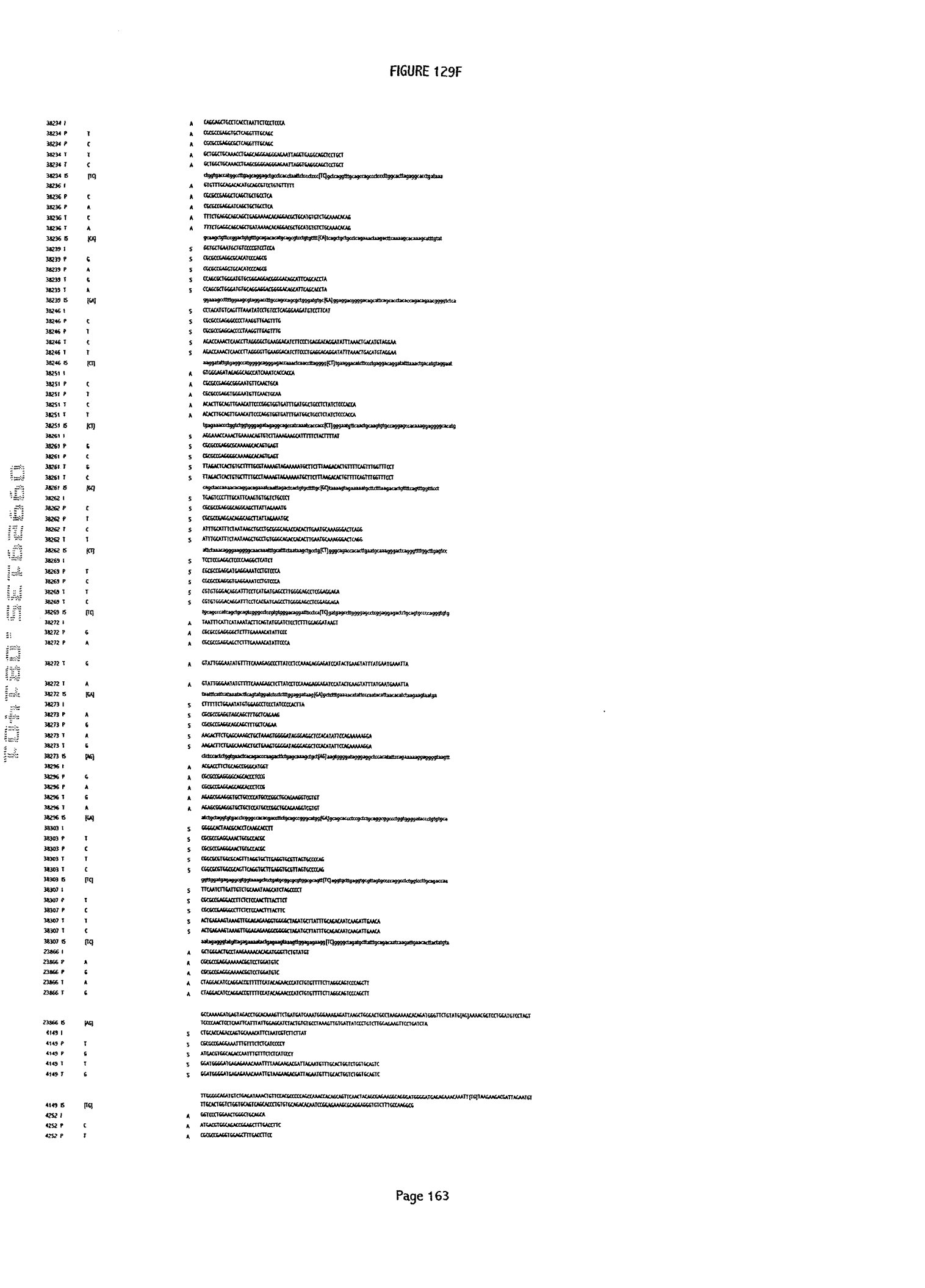


FIGURE 129F

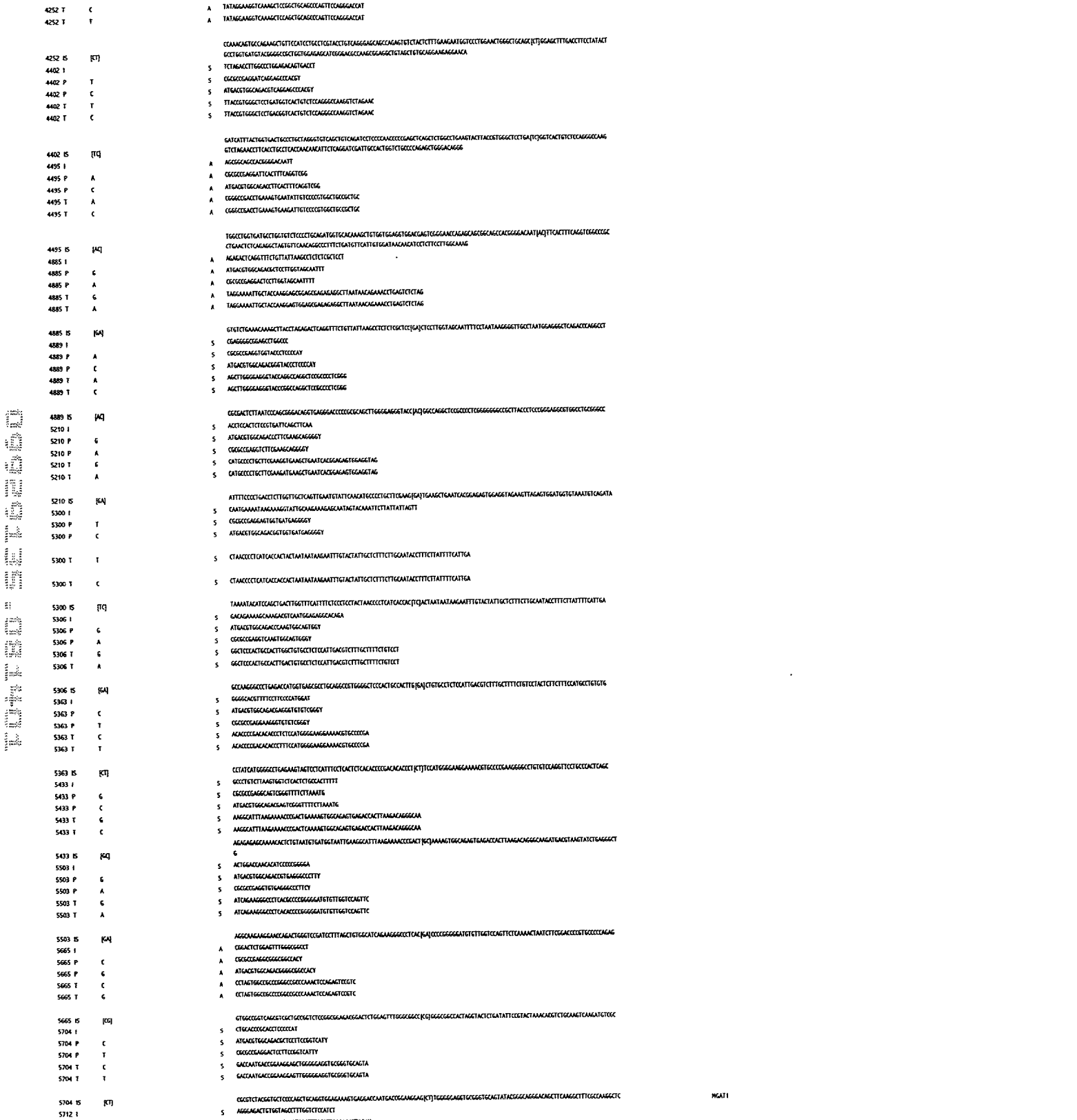
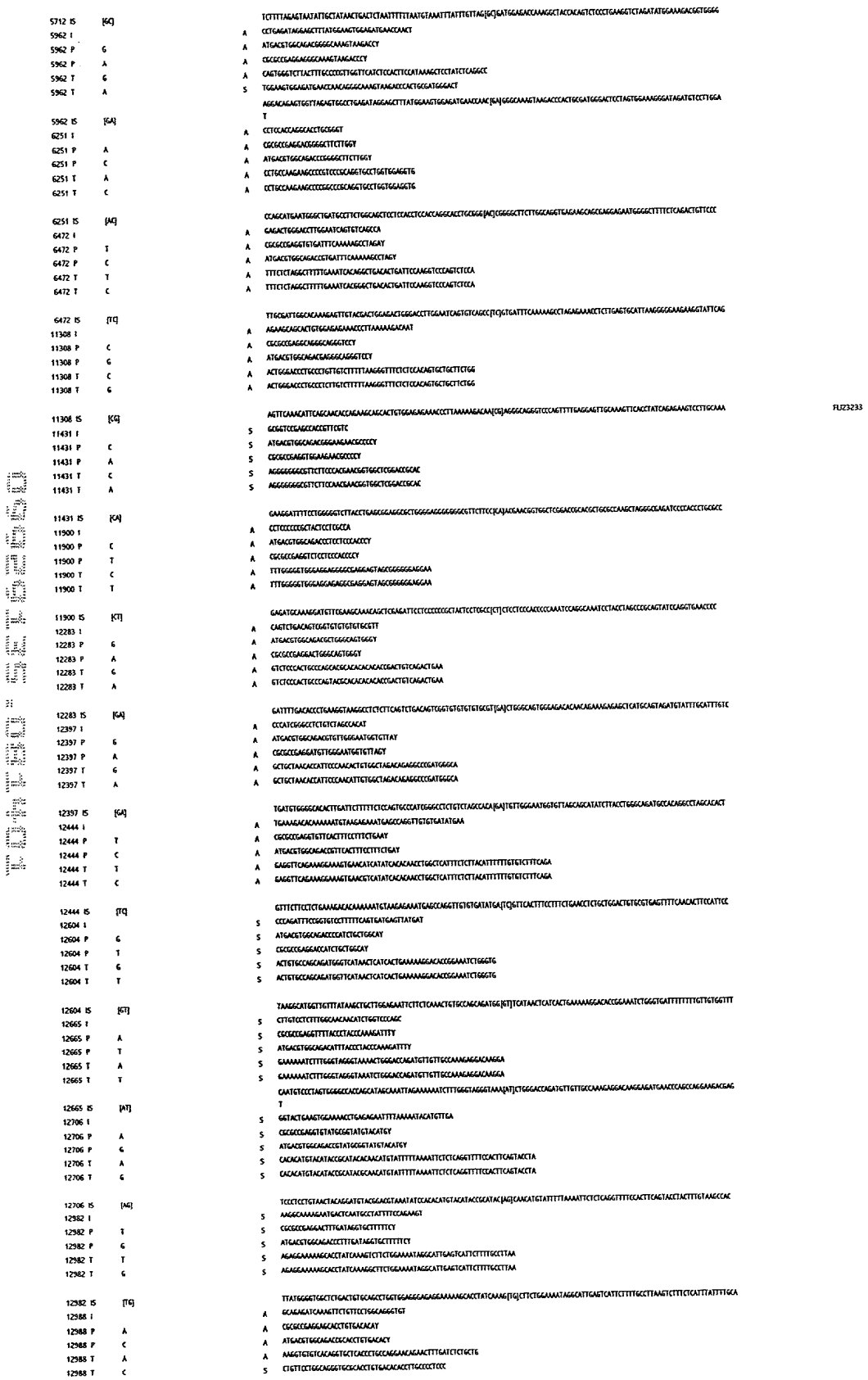

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4252 T T A TATAGGAAGGTCAAAGCTCCAGCTGCAGCCCAGTTCCAGGGACCAT
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4402 I GCCTGGTGATGTACGGGGCCGCTGGTGGAGAGCATCGGGAGCCCAAGCGGAGGCTGTAGCTGTGCAGGAAGAGGAACA
4402 P T S TCTAGACCTTGGCCCTGGAGACAGTGACCT
4402 P C S CGCGCCCAGGATCAGCAGCCCACGY
4402 T T S ATGACGTGGCAGACGTCAGGAGCCCACGY
4402 T C S TTACCGTGGGCTCCTGATGGTCACTGTCTCCAGGGCCAAGGTCTAGAAC
S TTACCGTGGGCTCCTGACGGTCACTGTCTCCAGGGCCAAGGTCTAGAAC
4402 IS [TC] GATCATTTACTGGCTGACTGCCCTGCTAGGGTGTCAGCTGTCAGATCCTCCCCAACCCCCGAGCTCAGCTCTGGCCTGAAGTACTTACCGTGGGCTCCTGA[TC]GGTCACTGTCTCCAGGGCCAAG
4402 IS [TC] GTCTAGAACCTTCACCTGCCTCACCAACAACATTCTCAGGATCGATTGCCACTGGTCTGCCCCAGAGCTGGGCACAGGG
4495 I A AGCGGCAGCCACGGGGACAATT
4495 P A A CGCGCCCAGGATTCACTTTCAGGTCGG
4495 P C A ATGACGTGGCAGACCTTCACTTTCAGGTCGG
4495 T A A CGGGCCGACCTGAAAGTGAATATTGTCCCCGTGGCTGCCGCTGC
4495 T C A CGGCCCGACCTGAAAGTGAAGATTGTCCCCGTGGCTGCCGCTGC
4495 IS [AC] TGGCCTGGTGATGCCTGGTGTCTCCCCTGCAGATGGTGCACAAAGCTGTGGTGGAGGTGGACGAGTGCGGGAAACAGAGCAGCGGCAGCCACGGGGACAAT[AC]TTCACTTTCAGGTGGGCCGC
4495 IS [AC] CTGAACTCTCAGAGGCTAGTGTTCAACAGCCCTTTCTGATGTTCATTGTGGATAACAACATCCTCTTCCTTGGCAAAG
4885 I A AGAGACTCAGGTTTCTGTTATTAAGCCTCTCTCGCTCCT
4885 P G A ATGACGTGGCAGACGCTCCTTGGTAGCAATTT
4885 P A A CGCGCCGAGGACTCCTTGGTAGCAATTT
4885 T G A TAGGAAAATTGCTACCAAGCAGCGGAGCGAGAGAGGCTTAATAACAGAAACCTGAGTCTCTAG
4885 T A A TAGGAAAATTGCTACCAAGGAGTGGAGCGAGAGAGGCTTAATAACAGAAACCTGAGTCTCTAG
4885 IS [GA] GTGTCTGAAACAAAGCTTACCTAGAGACTCAGGTTTCTGTTATTAAGCCTCTCTCGCTCC[GA]CTCCTTGGTAGCAATTTTCCTAATAAGGGGTTGCCTAATGGAGGGCTCAGACCCAGGCCT
4889 I S CGAGGGCCGGAGCCTGGCCC
4889 P A S CGCGCCGAGGTGGTACCCTCCCCAY
4889 P C S ATGACGTGGCAGACGGGTACCCTCCCCAY
4889 T A S AGCTTGGGCAGAGGTACCAGGCCAGCTCCGCCCCTCGGG
4889 T C S AGCTTGGGCAGAGGTACCCGGCCAGCTCCGCCCCTCGGG
4889 IS [AC] CGCGACTCTTAATCCCAGCGGGACAGGTGAGGGACCCCCGCGCAGCTTGGGGAGGGTACC[AC]GGCCAGGCTCCGCCCCTCGGGGGGGCCGCTTACCCTCCCGGGAGGCGTGGCCTGCGGGCC
5210 I S ACCTCCACTCTCCGTGATTCAGCTTCAA
5210 P G S ATGACGTGGCAGACCCTTCGAAGCAGGGGY
5210 P A S CGCGCCGAGGTCTTCGAAGCAGGGGY
5210 T G S CATGCCCCTGCTTCGAAGGTGAAGCTGAATCACGGACAGTGGAGGTAG
5210 T A S CATGCCCCTGCTTCGAAGATGAAGCTGAATCACGGACAGTGGAGGTAG
5210 IS [GA] ATTTTCCCCTGACCTCTTGGTTGCTCAGTTGAATGTATTCAACATGCCCCTGCTTCGAAG[GA]TGAAGCTGAATCACGGAGAGTGGAGGTAGAAGTTAGAGTGGATGGTGTAAATGTCAGATA
5300 I S CAATGAAAATAAGAAAGGTATTGCAAGAAAGAGCAATAGTACAAATTCTTATTATTAGTT
5300 P T S CGCGCCGAGGAGTGGTGATGAGGGGY
5300 P C S ATGACGTGGCAGACGGTGGTGATGAGGGGY
5300 T T S CTAACCCCTCATCACCACTACTAATAATAAGAATTTGTACTATTGCTCTTTCTTGCAATACCTTTCTTATTTTCATTGA
5300 T C S CTAACCCCTCATCACCACCACTAATAATAAGAATTTGTACTATTGCTCTTTCTTGCAATACCTTTCTTATTTTCATTGA
5300 IS [TC] TAAAATACATCCAGCTGACTTGGTTTCATTTTCTCCCTCCTACTAACCCCTCATCACCAC[TC]ACTAATAATAAGAAGAATTTGTACTATTGCTCTTTCTTGCAATACCTTTCTTATTTTCATTGA
5306 I S GACAGAAAAGCAAAGACGTCAATGGAAGAGGCACAGA
5306 P G S ATGACGTGGCAGACCCAAGTGGCAGTGGY
5306 P A S CGCGCCGAGGTCAAGTGGCAGTGGGY
5306 T G S GGCTCCCACTGCCACTTGGCTGTGCCTCTCCATTGACGTCTTTGCTTTTCTGTCCT
5306 T A S GGCTCCCACTGCCACTTGACTGTGCCTCTCCATTGACGTCTTTGCTTTTCTGTCCT
5306 IS [GA] GCCAAGGGCCCTGAGACCATGGTGAGCGCCTGCAGGCCGTGGGGCTCCCACTGCCACTTG[GA]CTGTGCCTCTCCATTGACGTCTTTGCTTTTCTGTCCTACTCTTCTTTCCATGCCTGTGTG
5363 I S GGGGCACGTTTCCTTCCCCATGGAT
5363 P C S ATGACGTGGCAGACGAGGGTGTGTCGGGY
5363 P T S CGCGCCGAGGAAGGGTGTCTCGGGY
5363 T C S ACACCCCGACACACCCTCTCCATGGGGAAGGAAAACGTGCCCCGA
5363 T T S ACACCCCGACACACCCTTTCCATGGGGAAGGAAAACGTGCCCCGA
5363 IS [CT] CCTATCATGGGGCCTGAGAAGTAGTCCTCATTTCCTCACTCTCACACCCCGACACACCCT[CT]TCCATGGGGAAGGAAAACGTGCCCCGAAGGGGCCTGTGTCCAGGTTCCTGCCCACTCAGC
5433 I S GCCCTGTCTTAAGTGGTCTCACTCTGCCACTTTTT
5433 P G S CGCGCCGAGGCAGTCGGGTTTTCTTAAATG
5433 P C S ATGACGTGGCAGACGAGTCGGGTTTTCTTAAATG
5433 T G S AAGGCATTTAAGAAAACCCGACTGAAAAGTGGCAGAGTGAGACCACTTAAGACAGGGCAA
5433 T C S AAGGCATTTAAGAAAACCCGACTCAAAAGTGGCAGAGTGAGACCACTTAAGACAGGGCAA
5433 IS [GC] AGAGAGAGCAAAACACTCTGTAATGTGATGGTAATTGAAGGCATTTAAGAAAACCCGACT[GC]AAAAGTGGCAGAGTGAGACCACTTAAGACAGGGCAAGATGACGTAAGTATCTGAGGGCT
5503 I S ACTGGACCAACACATCCCCCGGGGA
5503 P G S ATGACGTGGCAGACCCGTGAGGGCCCTTY
5503 P A S CGCGCCGAGGTGTGAGGGCCCTTCY
5503 T G S ATCAGAAGGGCCCTCACGCCCCGGGGGAATGTGTTGGTCCAGTTC
5503 T A S ATCAGAAGGGCCCTCACACCCCGGGGGAATGTGTTGGTCCAGTTC
5503 IS [GA] AGGCAAGAAGGAACCAGACTGGCTCCGATCCTTTAGCTGTGGCATCAGAAGGGCCCTCAC[GA]CCCCGGGGGATGTGTTGGTCCAGTTCTCAAAACTAATCTTCGGACCCCGTGCCCCCAGAG
5665 I A CGCACTCTGGAGTTTGGGCGGCCT
5665 P C A CGCGCCGAGGCGGCCGGCCAGY
5665 P G A ATGACGTGGCAGACGGGGCGGCCACY
5665 T C A CCTAGTGGCCGCCCGGCCGCCAAACTCCAGAGTCCGTC
5665 T G A CCTAGTGGCCGCCCGGCCGCCAAACTCCAGAGTCCGTC
5665 IS [CG] GTGGCCGGTCAGCGTCGCTGCCGCTCTCCGGCGGAGACGGACTCTGGAGTTTGGGCGGCC[CG]CGGCCGCCACTAGCTACTCTGATATTCCGTACTAAACAGGTCTGCAAGTCAAGATGTCGC
5704 I S CTGCACCCGCACCTCCCCCAT
5704 P C S ATGAGGTGGCAGACGCTCCTTCCGGTCATY
5704 P T S CGCGCCGAGGACTCCTTCCGGTCATTY
5704 T C S GACCAATGACCGGAAGGAGCTGGGGGAGGTGCGGGTGCAGTA
5704 T T S GACCAATGACCGGAAGGAGTTGGGGGAGGTGCGGGTGCAGTA
5704 IS [CT] CGCGTCTACGATGCTCCCCAGCTGCAGGTGGAGAAAGTGAGGAACCAATGACCGGAAGGAG[CT]TGGGGGAGGTGCGGGTGCAGTATACGGGCAGGGAACAGCTTCAAGGCTTTCGCCAAGGCTC MGAT I
5712 I S AGGGAGACTGTGGTAGCCTTTGGTCTCCATCT
5712 P G S CGCGCCGAGGCCTAACAAATAAATTTACATTAAAAAATTAGAY
5712 P C S ATGACGTGGCAGACGCTAACAAATAAATTTACATTAAAAAATTAGAY
5712 T G S TGACTCTAATTTTTTAATGTAAATTTATTTGTTAGGGATGGAGACCAAAGGCTACCACAGTCTCCCTGA
5712 T C S TGACTCTAATTTTTTAATGTAAATTTATTTGTTAGGGATGGAGACCAAAGGCTACCACAGTCTCCCTGA

FIGURE 129F



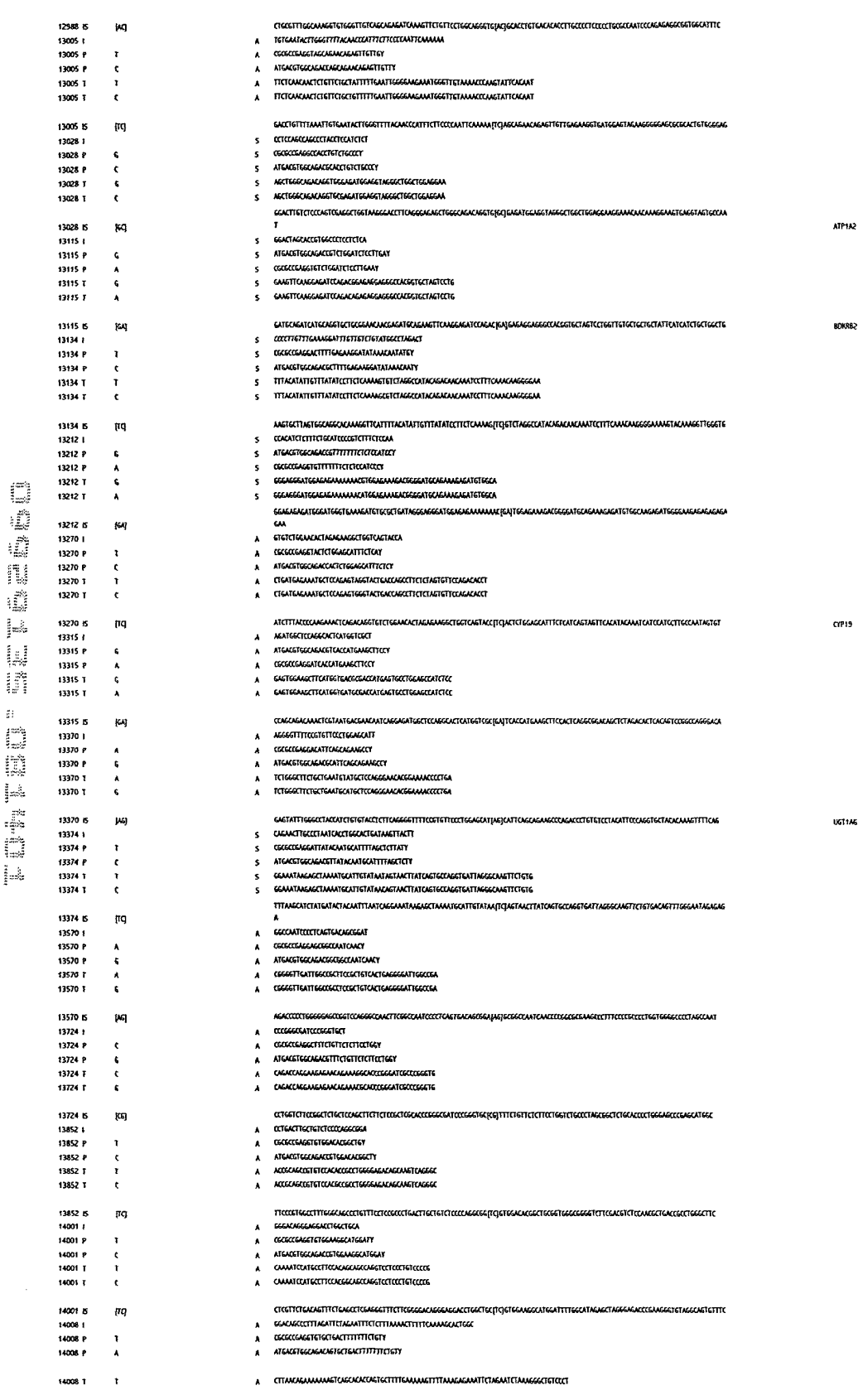

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13005 P T A CGCGCCGAGGTAGCAGAACAGAAGTTGTTGY
13005 P C A ATGACGTGGCAGAACAGCAGAACAGAGTTGTTY
13005 T T A TTCTCAACAACTCTGTTCTGCTATTTTTGAATTGGGGGAAGAAATGGGTTGTAAAACCCAAGTATTCACAAT
13005 T C A TTCTCAACAACTCTGTTCTGCTGTTTTTGAATTGGGGGAAGAAATGGGTTGTAAAACCCAAGTATTCACAAT
13005 IS [TC] GACCTGTTTTAAATTGTGAATACTTGGGTTTTACAACCCATTTCTTCCCCAATTCAAAAA[TC]AGCAGAACAGAGTTGTTGAGAAGGTGATGGAGTAGAAGGGGGAGCGCGCACTGTGGGAG
13028 I S CCTCCAGCCAGCCCTACCTCCATCTCT
13028 P G S CGCGCCGAGGCCACCTGTCTGCCCY
13028 P C S ATGACGTGGCAGACGCACCTGTCTGCCCY
13028 T G S AGCTGGGCAGACAGGTGGCAGATGGAGGTAGGGCTGGCTGGAGGAA
13028 T C S AGCTGGGCAGACAGGTGCAGATGGAGGTAGGGCTGGCTGGAGGAA
13028 IS [GC] GGACTTGTCTCCCAGTCGAGGCTGGTAAGGCACCTTCAGGGAGAGCTGGGCAGCAGGTG[GC]GAGATGGAGGTAGGGCTGGCTGGAGGAAGGAAACAACAAGGAAGTGAGGTAGTGCCAA
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13115 P G S ATGACGTGGCAGACGGTCTGGATCTCCTTGAY
13115 P A S CGCGCCGAGGTGTCTGGATCTCCTTGAAY
13115 T G S GAAGTTCAAGGAGATCCAGACGGAGAGGAGGAGGCCACGGTGCTAGTCCTG
13115 T A S GAAGTTCAAGGAGATCCAGACAGAGAGGAGGGCCACGGTGCTAGTCCTG
13115 IS [GA] GATGCAGATCATGCAGGTGCTGCGGAACAACGAGATGCAGAAGTTCAAGGAGATCCAGAC[GA]GAGAGGAGGGCCACGGTGCTAGTCCTGGTTGTGCTGCTGCTATTCATCATCTGCTGGCTG BDKRB2
13134 I S CCCCTTGTTTGAAAGGATTTGTTGTCTGTATGGCCTAGACT
13134 P T S CGCGCCGAGGACTTTTGAGAAGGATATAAACAATATGY
13134 P C S ATGAGGTGGCAGACGCTTTTGAGAAGGATATAAACAATY
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13134 T C S TTTACATATTGTTTATATCCTTCTCAAAAGCGTCTAGGCCATACAGACAACAAATCCTTTCAAACAAGGGGAA
13134 IS [TC] AAGTGCTTAGTGGCAGGCAGAAAGGTTCATTTTACATATTGTTTATATCCTTCTCAAAAG[TC]GTCTAGGCCATACAGACAACAAATCCTTTCAAACAAGGGGAAAAGTACAAAGGTTGGGTG
13212 I S CCACATCTCTTTCTGCATCCCCGTCTTTCTCCAA
13212 P G S ATGACGTGGCAGACCGTTTTTTTCTCTCCATCCY
13212 P A S CGCGCCGAGGTGTTTTTTTCTCTCCATCCCY
13212 T G S GGGAGGGATGGAGAGAAAAAAACGTGGAGAAAGACGGGGATGCAGAAAGAGATGTGGCA
13212 T A S GGGAGGGATGGAGAGAAAAAAACATGGAGAAAGACGGGGATGCAGAAAGAGATGTGGCA
13212 IS [GA] GGAGAAGAGATGGGATGGGTGAAAGATGTGCGCTGATAGGGAGGGATGGAGAGAAAAAAAC[GA]TGGAGAAAGACGGGGATGCAGAAAGAGATGTGGCAAGAGATGGGGAAGAGAGAGAGA
GAA
13270 I A GTGTCTGGAACACTAGAGAAGGCTGGTCAGTACCA
13270 P T A CGCGCCGAGGTACTCTGGAGCATTTCTCAY
13270 P C A ATGACGTGGCAGACCACTCTGGAGCATTTCTCY
13270 T T A CTGATGAGAAATGCTCCAGAGTAGGTACTGACCAGCCTTCTCTAGTGTYCCAGACACCT
13270 T C A CTGATGAGAAATGCTCCAGAGTGGGTACTGACCAGCCTTCTCTAGTGTYCCAGACACCT
13270 IS [TC] ATCTTTACCCCAAGAAACTCAGACAGGTGTCTGGAACACTAGAGAAGCTGGTCAGTACC[TC]ACTCTGGAGCATTTCTCATCAGTAGTTCACATACAAATCATCCATCCTTGCCAATAGTGT CYP19
13315 I A AGATGGCTCCAGCACTCATGGTCGCT
13315 P G A ATGACGTGGCAGACGTCACCATGAAGCTTCCY
13315 P A A CGCGCCGAGGATCACCATGAAGCTTCCY
13315 T G A GAGTGGAAGCTTCATGGTGACGCGACCATGAGTGCCTGGAGCCATCTCC
13315 T A A GAGTGGAAGCTTCATGGTGATGCGACCATGAGTGCCTGGAGCCATCTCC
13315 IS [GA] CCAGCAGACAAACTCGTAATGACGAACAATCAGGAGATGGCTCCAGGCACTCATGGTCGC[GA]TCACCATGAAGCTTCCACTCAGGCGGACAGCTCTAGACACTCACAGTCCCGGCCAGGGACA
13370 I A AGGGGTTTCCGTGTTCCCTGGAGCATT
13370 P A A CGCGCCGAGGACATTCAGCAGAAGCCY
13370 P G A ATGACGTGGCAGACGCATTCAGCAGAAGCCY
13370 T A A TCTGGGCTTCTGCTGAATGTATGCTCCAGGGAACACGGAAAACCCCTGA
13370 T G A TCTGGGCTTCTGCTGAATGCATGCTCCAGGGAACACGGAAAACCCCTGA
13370 IS [AG] GAGTATTTGGGGCTACATATCTGTGTACCTCTTCAGGGGTTTTCCGTGTTCCCTGGAGCAT[AG]CATTCAGCAGAAGCCCAGACCCTGTGTCCTACATTCCCAGGTGCTACACAAAGTTTTCAG UGT1A6
13374 I S CAGAACTTGCCCTAATCACCTGGCACTGATAAGTTACTT
13374 P T S CGCGCCGAGGATTATACAATGCATTTTAGCTCTTATY
13374 P C S ATGACGTGGCAGACGTTATACAATGCATTTTAGCTCTY
13374 T T S GGAAATAAGAGCTAAAATGCATTGTATAATAGTAACTTATCAGTGCCAGGTGATTAGGGCAAGTTCTGTG
13374 T C S GGAAATAAGAGCTAAAATGCATTGTATAACAGTAACTTATCAGTGCCAGGTGATTAGGGCAAGTTCTGTG
13374 IS [TC] TTTAAGCATCTATGATACTACAATTTAATCAGGAAATAAGAGCTAAAATGCATTGTATAA[TC]AGTAACTTATCAGTGCCAGGTGATTAGGGCAAGTTCTGTGACAGTTTGGGAATAGAGAG
A
13570 I A GGCCAATCCCCTCAGTGACAGCGGAT
13570 P A A CGCGCCGAGGAGCGGCCAATCAACY
13570 P G A ATGACGTGGCAGACGGCGGCCAATCAACY
13570 T A A CGGGGTTGATTGGCCGCTCCGCTGTCACTGAGGGGATTGGCCGA
13570 T G A CGGGGTTGATTGGCCGCCTCCGCTGTCACTGAGGGGATTGGCCGA
13570 IS [AG] AGACCCCCTGGGGGAGCCGGTCCAGGGCCAACTTCGGCCAATCCCCTCAGTGACAGCGGA[AG]GCGGCCAATCAACCCCCGGCGCGAAGCCCTTTCCCCCCCCTGGTGGGGCCCCTAGCCAAT
13724 I A CCCGGGCGATCCCGGCTGCT
13724 P C A CGCGCCGAGGCTTTCTGTTCTCTCCTGGY
13724 P G A ATGACGTGGCAGACGTTTCTGTTCTCTTCCTGGY
13724 T C A CAGACCAGCAAGAGAACAGAAAGGCACCCGGGATCGCCCGGGTG
13724 T G A CAGACCAGGAAGAGAACAGAAAGCGACCCGGGATCGCCCGGGTG
13724 IS [CG] CCTGGTCTCCCGGCTCTGCTCCAGCTTCTTCTCCGCTGGCACCCGGGCGATCCCGGCTGC[CG]TTTCTGTTCTCTTCCTGGTCTGCCCTAGCGGCTCTGCACCCCTGGGAGCCCGAGCATGGC
13852 I A CCTGACTTGCTGTCTCCCCAGGCGGA
13852 P T A CGCGCCGAGGTGTGGACACGGCTGY
13852 P C A ATGACGTGGCAGACGCTGGACACGGCTY
13852 T T A ACGCCAGCCGTGTCCACACCGCCTGGGGAGACAGCAAGTCAGGGC
13852 T C A ACGCCAGCCGTGTCCACGCCGCCTGGGGAGACAGCAAGTCAGGGC
13852 IS [TC] TTCCCGTGGCCTTTGGGCAGCCCTGTTTCCTCCGCCCTGACTTGCTGTCTCCCCAGGGGA[TC]GTGGACACGGCTGCGGTGGGCGGGGTCTTCCGACGTCTCCAACGCTGACCGCCTGGGCTTC
14001 I A GGGACAGGGAGGACCTGGCTGCA
14001 P T A CGCGCCGAGGTCTGGAAGGCATGGATY
14001 P C A ATGACGTGGCAGACCGTGGAAGGCATGGAY
14001 T T A CAAAATCCATGCCTTCCACAGCAGCCAGGTCCTCCCTGTCCCCG
14001 T C A CAAAATCCATGCCTTCCACGGCAGCCAGGTCCTCCCTGTCCCCG
14001 IS [TC] CTCGTTCTGACAGTTTCTCAGCCTCGAAGGTTTCTTCGGGGACAGGGAGCACCTGGCTGC[TC]GTGGAAGGCATGGATTTTGGCATAGAGCTAGGAGACCCGAAGGGTGTAGGCAGTGTTTC
14008 I A GCACAGCCCTTTAGATTCTAGAATTTCTCTTTAAACTTTTCAAAAGCACTGGC
14008 P T A CGCGCCGAGGTGTGCTGACTTTTTTCTGTY
14008 P A A ATGACGTGGCAGACAGTGCTGACTTTTTTCTGTY
14008 T T A CTTAACAGAAAAAAAGTCAGCACACCAGTGCTTTTCAAAAAGTTTTAAAGAGAAATTCTAGAATCTAAAGGGCTGTCCCT

FIGURE 129F

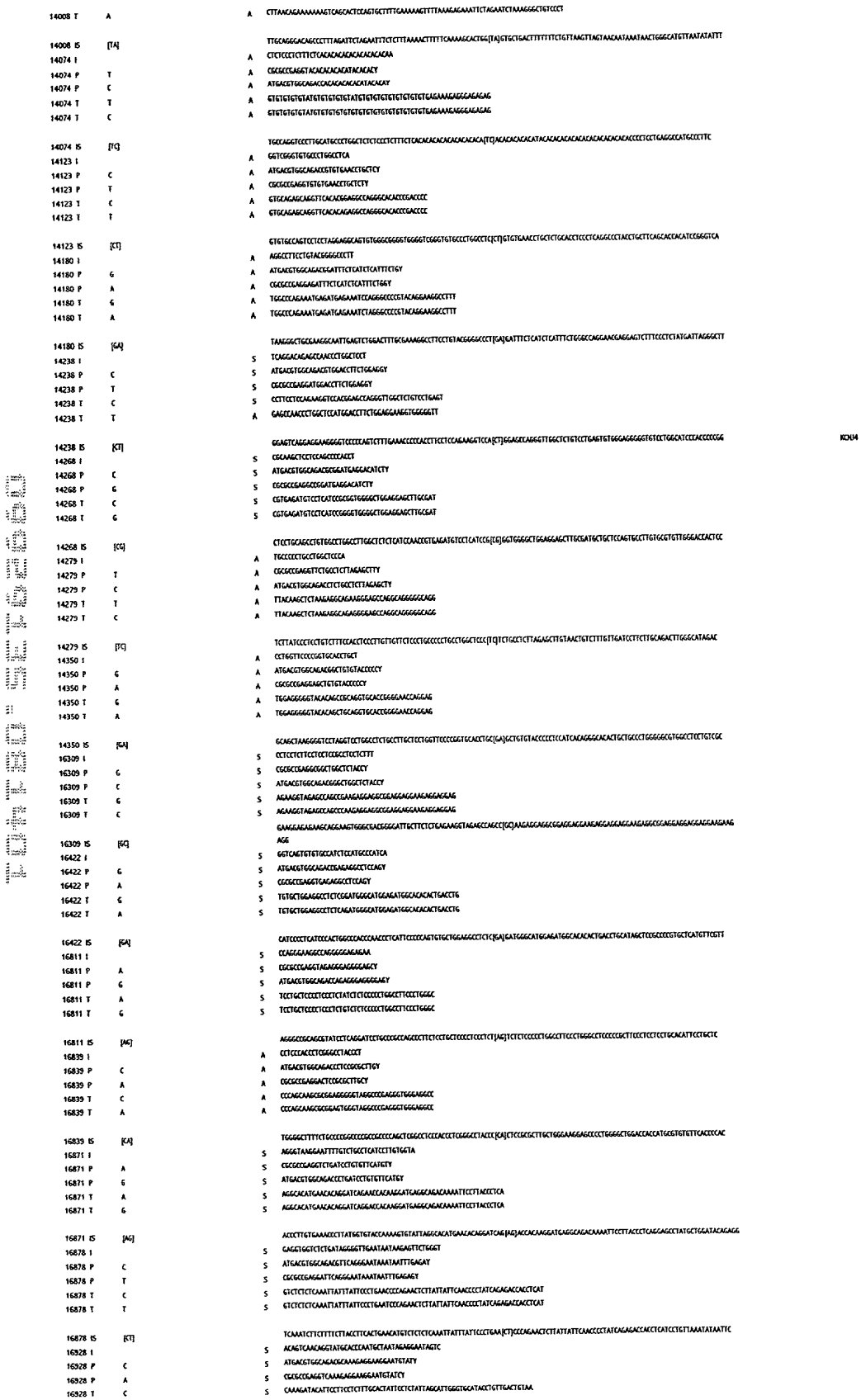


FIGURE 129F

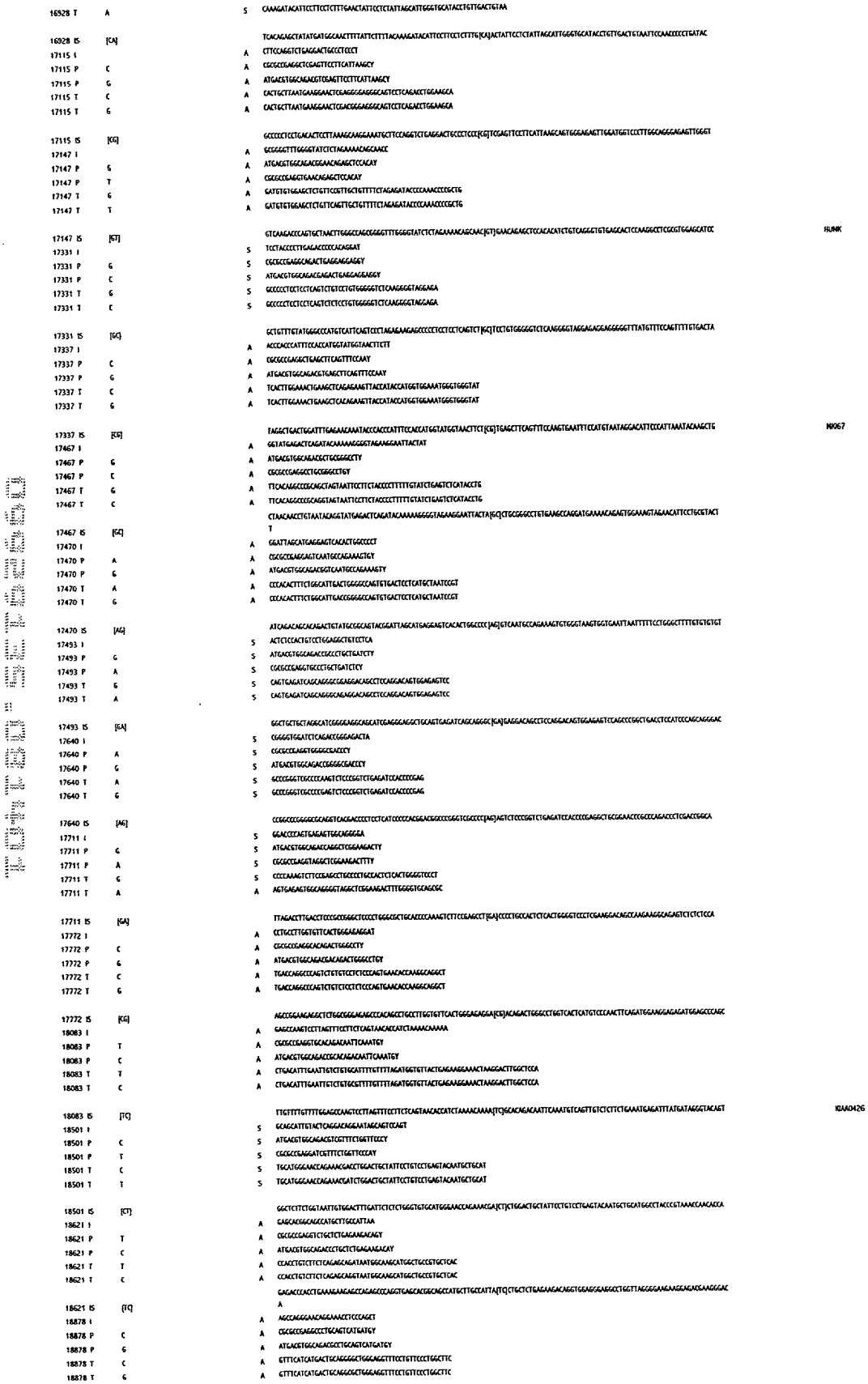
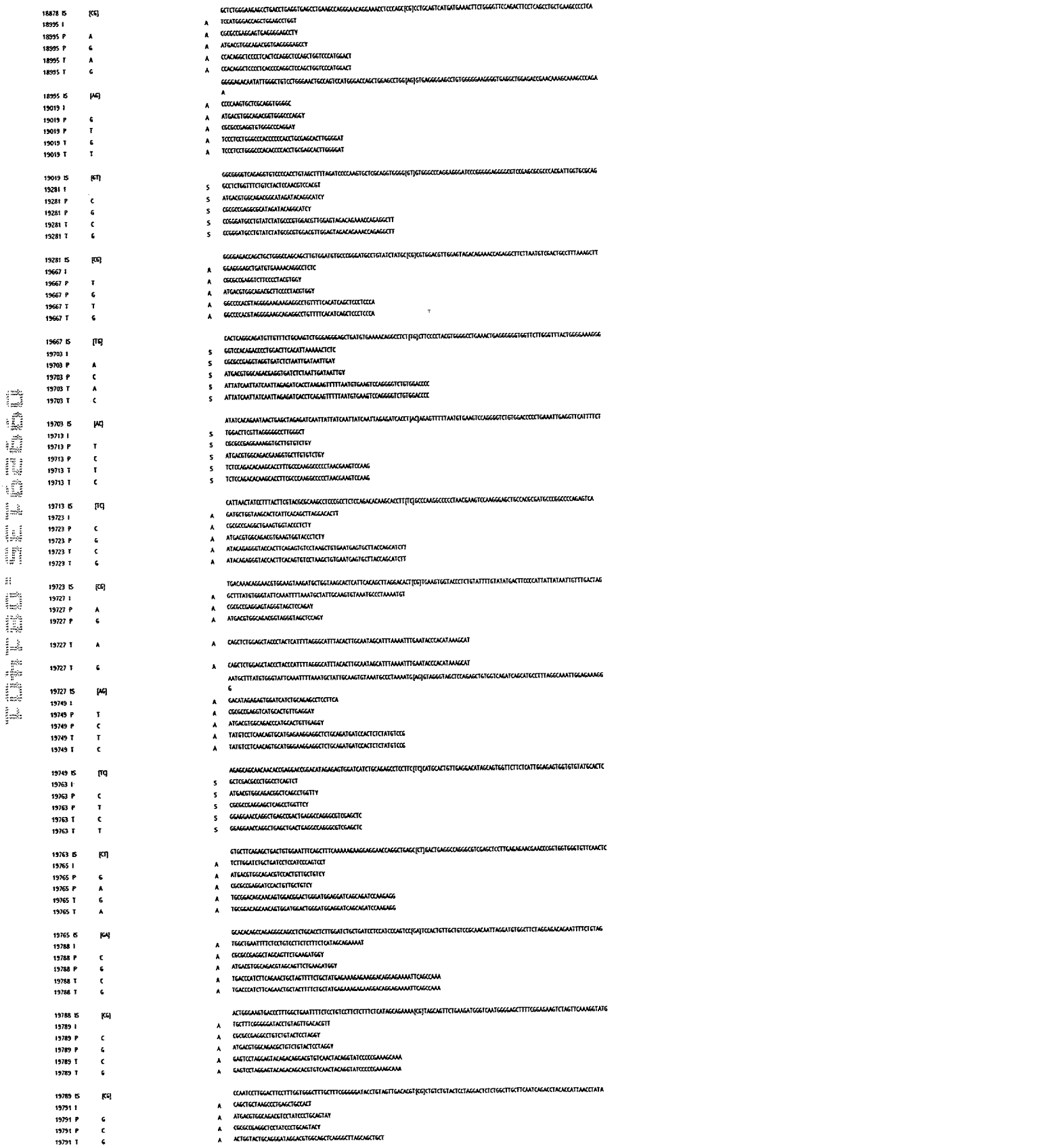


FIGURE 129F



Application No. 09/851,827 Attorney Docket No. 10466-0001

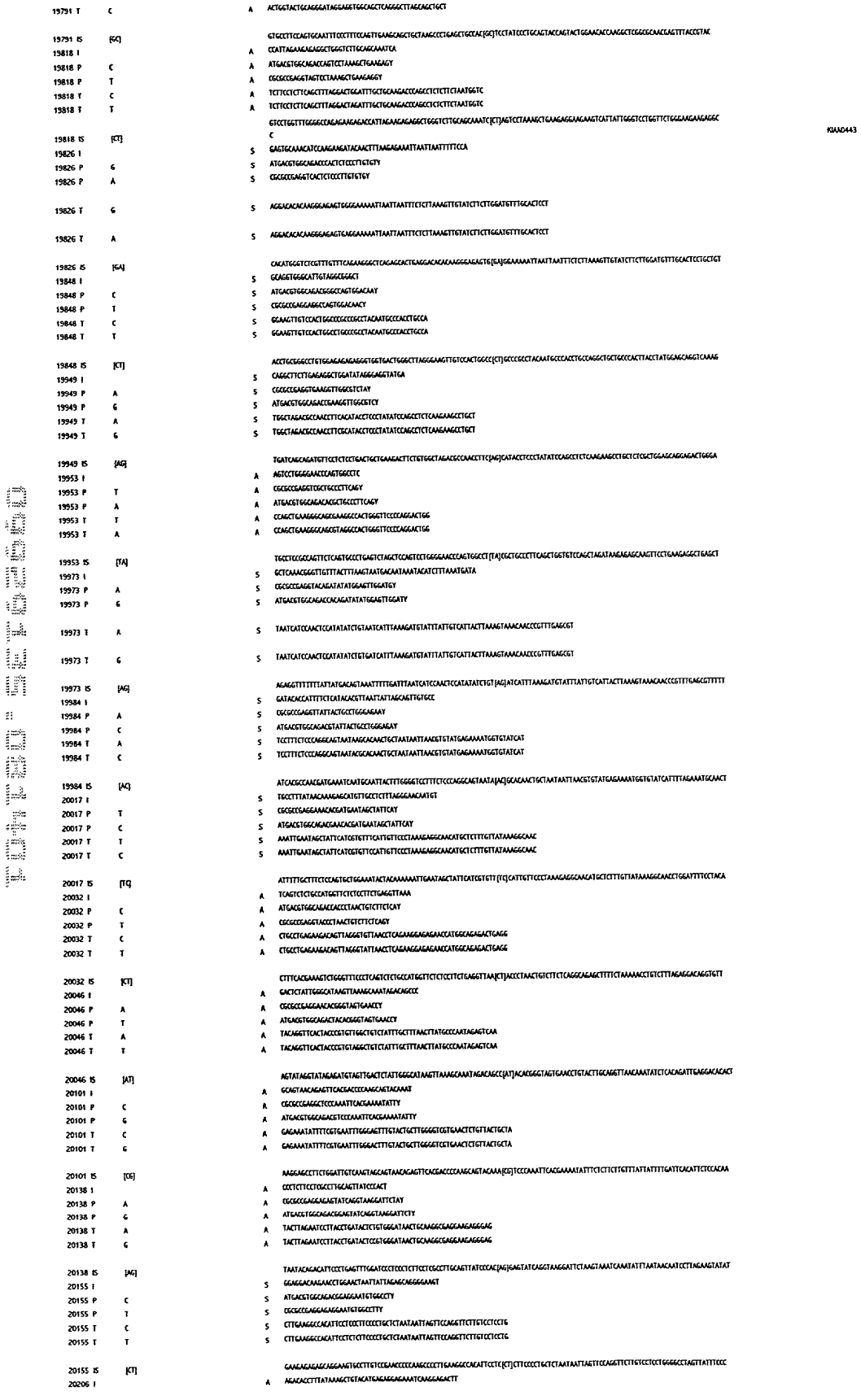

19791 T C A ACTGGTACTGCAGGGATAGGAGGTGGCAGCTCAGGGCTTAGCAGCTGCT
19791 IS [GC] GTGCCTTCCAGTGCAATTTCCCTTTCCAGTTGAAGCAGCTGCTAAGCCCTGAGCTGCCAC[GC]TCCTATCCCTGCAGTACCAGTACTGGAACACCAAGGCTCGGGGCAACGAGTTTACCGTAC
19818 I A CCATTAGAAGAGAGGCTGGGTCTTGCAGCAAATCA
19818 P C A ATGACGTGGCAGACCAGTCCTAAAGCTGAAGAGY
19818 P T A CGCGCCGAGGTAGTCCTAAAGCTGAAGAGGY
19818 T C A TCTTCCTCTTCAGCTTTAGGACTGGATTTGCTGCAAGACCCAGCCTCTCTTCTAATGGTC
19818 T T A TCTTCCTCTTCAGCTTTAGGACTAGATTTGCTGCAAGACCCAGCCTCTCTTCTAATGGTC
19818 IS [CT] GTCCTGGTTTGGGGCCAGAGAAGAGACCATTAGAAGCAGAGGCTGGGTCTTGCAGCAAATC[CT]AGTCCTAAAGCTGAAGAGGAAGAAGTCATTATTGGGGTCCTGGTTCTGGGAAGAAGAGGC C KIAA0443
19826 I S GAGTGCAAACATCCAAGAAGATACAACTTTAAGAGAAATTAATTAATTTTTCCA
19826 P G S ATGACGTGGCAGACCCACTCTCCCTTGTGTY
19826 P A S CGCGCCGAGGTCACTCTCCCTTGTGTGY
19826 T G S AGGACACACAAGGGAGAGTGGGGAAAAATTAATTAATTTCTCTTAAAGTTGTATCTTCTTGGATGTTTGCACTCCT
19826 T A S AGGACACACAAGGGAGAGTCAGGAAAAATTAATTAATTTCTCTTAAAGTTGTATCTTCTTGGATGTTTGCACTCCT
19826 IS [GA] CACATGGGTCTCGTTTGTTTCAGAAGGCTCAGAGCACTGAGGACACACAAGGGAGAGTG[GA]GGAAAAATTAATTAATTTCTCTTAAAGTTGTATCTTCTTGGATGTTTGCACTCCTGCTGT
19848 I S GCAGGTGGGCATTGTAGGCGGGCT
19848 P C S ATGACGTGGCAGACGGGCCAGTGGACAAY
19848 P T S CGCGCCGAGGAGGCCAGTGGACAACY
19848 T C S GGAAGTTGTCCACTGGCCCGCCCGCCTACAATGCCCACCTGCCA
19848 T T S GGAAGTTGTCCACTGGCCTGCCCGCCTACAATGCCCACCTGCCA
19848 IS [CT] ACCTGCGGGCCTGTGGAGAGAGAGGTGGTGACTGGGCTTAGGGAAGTTGTCCACTGCCC[CT]GCCCGCCTACAATGCCCACCTGCCAGGCTGCTGCCCACTTACCTATGGAGCAGGTCAAAG
19949 I S CAGGCTTCTTGAAGAGCTGGATATAGGGAGGTATGA
19949 P A S CGCGCCGAGGTGAAGGTTGGCGTCTAY
19949 P G S ATGACGTGGCAGACCGAAGGTTGGCGTCY
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19949 T G S TGGCTAGACGCCAACCTTCGCATACCTCCCTATATCCAGCCTCTCAAGAAGCCTGCT
19949 IS [AG] TGATCAGCAGATGTTCCTCTCCTGACTGCTGAAGACTTCTGTGGCTAGACGCCAACCTTCC[AG]CATACCTCCCTATATCCAGCCTCTCAAGAAGCCTGCTCCTCGCTGGAGCAGGAGACTGGGA
19953 I A AGTCCTGGGGAACCAGTGGCCTC
19953 P T A CGCGCCGAGGTCGCTGCCCTTCAGY
19953 P A A ATGACGTGGCAGACACGCTGCCCTTCAGY
19953 T T A CCAGCTCAAGGGCAGCGAAGGCCACTGGGTTCCCCAGGACTGG
19953 T A A CCAGCTCAAGGGCAGCGTAGGCCACTGGGTTCCCCAGGACTGG
19953 IS [TA] TGCCTCCGCCAGTTCTCAGTGCCCTGAGTCTAGCTCCAGTCCTGGGGAACCCAGTGGCCT[TA]CGCTGCCCTTCAGCTGGTGTCCAGCTAGATAAGAGAGCAAGTTCCTGAAGAGGCTGAGCT
19973 I S GCTCAAACGGGTTGTTTACTTTAAGTAATGACAATAAATACATCTTTAAATGATA
19973 P A S CGCGCCCAGGTACAGATATATGGAGTTGGATGY
19973 P G S ATGACGTGGCAGACCACAGATATATGGAGTTGGATY
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19973 T G S TAATCATCCAACTCCATATATCTGTGATCATTTAAAGATGTATTTATTGTCATTACTTAAAGTAAACAACCCGTTTGAGCGT
19973 IS [AG] AGAGGTTTTTTTATTATGACAGTAAATTTTTGATTTAATCATCCAACTCCATATATCTGT[AG]ATCATTTAAAGATGTATTTATTGTCATTACTTAAAGTAAACAACCCGTTTGAGCGTTTTT
19984 I S GATACACCATTTCTCATACACGTTAATTATTAGCAGTTGTGCC
19984 P A S CGCGCCGAGGTTATTACTGCCTGGGAGAAY
19984 P C S ATGACGTGGCAGACGTATTACTGCCTGGGAGAY
19984 T A S TCCTTTCTCCCAGGCAGTAATAAGCACAACTGCTAATAATTAACGTGTATGAGAAAATGGTGTATCAT
19984 T C S TCCTTTCTCCCAGGCAGTAATACGCACAACTGCTAATAATTAACGTGTATGAGAAAATGGTGTATCAT
19984 IS [AC] ATCACGCCAACGATGAAATCAATGCAATTACTTTGGGGTCCTTTCTCCCAGGCAGTAATA[AC]GCACAACTGCTAATAATTAACGTGTATGAGAAAATGGTGTATCATTTTAGAAATGCAACT
20017 I S TGCCTTTATAACAAAGAGCATGTTGCCTCTTTAGGGAACAATGT
20017 P T S CGCGCCGAGGAAACACGATGAATAGCTATTCAY
20017 P C S ATGACGTGGCAGACGAACACGATGAATAGCTATTCAY
20017 T T S AAATTGAATAGCTATTCATCGTGTTTCATTGTTCCCTAAAGAGGCAACATGCTCTTTGTTATAAAGGCAAC
20017 T C S AAATTGAATAGCTATTCATCGTGTTCCATTGTTCCCTAAAGAGGCAACATGCTCTTTGTTATAAAGGCAAC
20017 IS [TC] ATTTTTGCTTTCTCCAGTGCTGGAAATACTACAAAAAATTGAATAGCTATTCATCGTGTT[TC]CATTGTTCCCTAAAGAGGCAACATGCTCTTTGTTATAAAGGCAACCTGGATTTTCCTACA
20032 I A TCAGTCTCTGCCATGGTTCTCTCCTTCTGAGGTTAAA
20032 P C A ATGACGTGGCAGACCACCCTAACTGTCTTCTCAY
20032 P T A CGCGCCGAGGTACCCTAACTGTCTTCTCAGY
20032 T C A CTGCCTGAGAAGACAGTTAGGGTGTTAACCTCAGAAGGAGAGAACCATGGCAGAGACTGAGG
20032 T T A CTGCCTGAGAAGACAGTTAGGGTATTAACCTCAGAAGGAGAGAACCATGGCAGAGACTGAGG
20032 IS [CT] CTTTCACGAAAGTCTGGGGTTTCCCTCAGTCTCTGCCATGGTTCTCTCCTTCTGAGGTTAA[CT]ACCCTAACTGTCTTCTCAGGCAGAGCTTTTCTAAAAACCTGTCTTTAGAGGACAGGTGTT
20046 I A GACTCTATTGGGCATAAGTTAAAGCAAATAGACAGCCC
20046 P A A CGCGCCGAGGAACACGGGTAGTGAACCY
20046 P T A ATGACGTGGCAGACTACACGGGTAGTGAACCY
20046 T A A TACAGGTTCACTACCCGTGTAGGCTGTCTATTTGCTTTAACTTATGCCCAATAGAGTCAA
20046 T T A TACAGGTTCACTACCCGTGTAGGCTGTCTATTTGCTTTAACTTATGCCCAATAGAGTCAA
20046 IS [AT] AGTATAGGTATAGAGATGTAGTTGACTCTATTGGGCATAAGTTAAAGCAAATAGACAGCC[AT]ACACGGGTAGTGAACCTGTACTTGCAGGTTAACAAATATCTCACAGATTGAGGACACACT
20101 I A GCAGTAACAGAGTTCACGACCCCAAGCAGTACAAAT
20101 P C A CGCGCCGAGGCTCCCAAATTCACGAAAATATTY
20101 P G A ATGACGTGGCAGACGTCCCAAATTCACGAAAATATTY
20101 T C A GAGAAATATTTTCGTGAATTTGGGACTTTGTACTGCTTGGGGTCGTGAACTCTGTTACTGCTA
20101 T G A GAGAAATATTTTCGTGAATTTGGGACTTTGTACTGCTTGGGGTCGTGAACTCTGTTACTGCTA
20101 IS [CG] AAGGAGCCTTCTGGATTGTCAACTAGCAGTAACAGAGTTCACGACCCCAAGCAGTACAAA[CG]TCCCAAATTCACGAAAATATTTCTCTCTCTTGTTTATTATTTTGATTCACATTCTCCACAA
20138 I A CCCTCTTCCTCGCCTTGCAGTTATCCCACT
20138 P A A CGCGCCGAGGAGAGTATCAGGTAAGGATTCTAY
20138 P G A ATGACGTGGCAGACGGAGTATCAGGTAAGGATTCTY
20138 T A A TACTTAGAATCCTTACCTGATACTCTGTGGGATAACTGCAAGGCGAGGAAGAGGGAG
20138 T G A TACTTAGAATCCTTACCTGATACTCCGTGGGATAACTGCAAGGCGAGGAAGAGGGAG
20138 IS [AG] TAATACAGACATTCCCTGAGTTTGGATCCCTCCCTCTTCCTCGCCTTGCAGTTATCCCAC[AG]GAGTATCAGGTAAGGATTCTAAGTAAATCAAATATTTAATAACAATCCTTAGAAGTATAT
20155 I S GGAGCACAAAACCTGGAACTAATTATTAGAGCAGGGAAGT
20155 P C S ATGACGTGGCAGACGGAGGAATGTGGCCTY
20155 P T S CGCGCCGAGGAGAGGAATGTGGCCTTY
20155 T C S CTTGAAGCCACATTCCTCCCTTCCCCTGCTCTAATAATTAGTTCCAGGTTCTTGTCCTCCTG
20155 T T S CTTGAAGCCACATTCCTCTCTTCCCCTGCTCTAATAATTAGTTCCAGGTTCTTGTCCTCCTG
20155 IS [CT] GAAGAGAGAGCAGGAAGTGCCTTGTCCGAACCCCCAAGCCCCTTGAAGGCCACATTCTCC[CT]CTTCCCCTGCTCTAATAATTAGTTCCAGGTTCTTGTCCTCCTGGGGCCTAGTTATTTCCC
20206 I A AGACACCTTATAAAGCTGTACATGAGAGAGAAATCAAGGAGACTT

FIGURE 129F

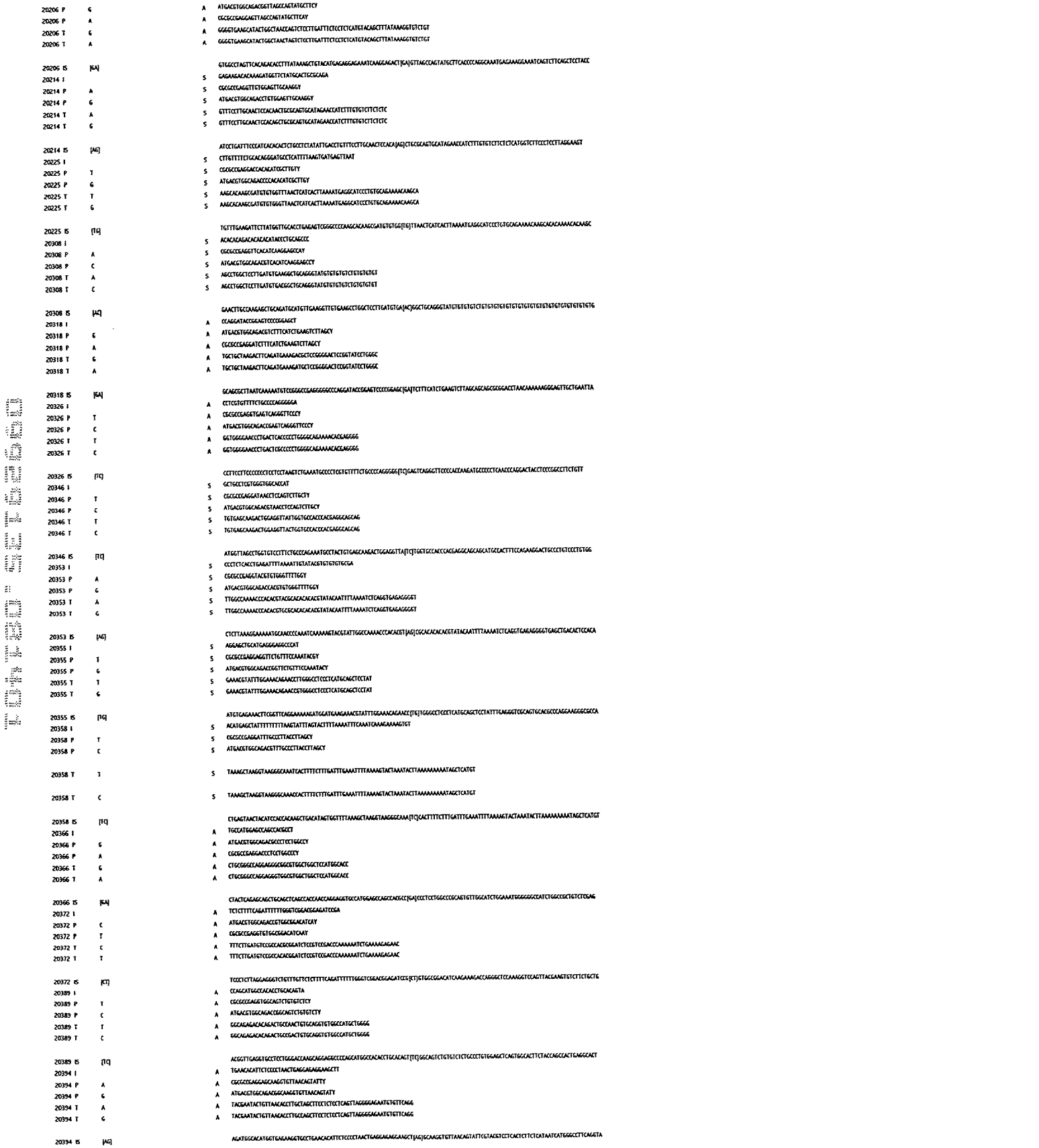

20206 P G A ATGACGTGGCAGACGGTTAGCCAGTATGCTTCY
20206 P A A CGCGCCGAGGAGTTAGCCAGTATGCTTCAY
20206 T G A GGGGTGAAGCATACTGGCTAACCAGTCTCCTTGATTTCTCCTCTCATGTACAGCTTTATAAAGGTGTCTGT
20206 T A A GGGGTGAAGCATACTGGCTAACTAGTCTCCTTGATTTCTCCTCTCATGTACAGCTTTATAAAGGTGTCTGT
20206 IS [GA] GTGGCCTAGTTCACAGACACCTTTATAAAGCTGTACATGAGAGGAGAAATCAAGGAGACT[GA]GTTAGCCAGTATGCTTCACCCCAGGCAAATGAGAAAGGAAATCAGTCTTCAGCTCCTACC
20214 I S GAGAAGACACAAAGATGGTTCTATGCACTGCGCAGA
20214 P A S CGCGCCGAGGTTCTGGAGTTGCAAGGT
20214 P G S ATGACGTGGCAGACCTGTGGAGTTGCAAGGY
20214 T A S GTTTCCTTGCAACTCCACAACTGCGCAGTGCATAGAACCATCTTTGTGTCTTCTCTC
20214 T G S GTTTCCTTGCAACTCCACAGCTGCGCAGTGCATAGAACCATCTTTGTGTCTTCTCTC
20214 IS [AG] ATCCTGATTTCCCATCACACACTCTGCCTCTATATTGACCTGTTTCCTTGCAACTCCACA[AG]CTGCGCAGTGCATAGAACCATCTTTGTGTCTTCTCTCATGGTCTTCCCTCCTTAGGAAGT
20225 I S CTTGTTTTCTGCACAGGGATGCCTCATTTTAAGTGATGAGTTAAT
20225 P T S CGCGCCGAGGACCACACATGCCTTGTY
20225 P G S ATGACGTGGCAGACCCCACACATCGCTTGY
20225 T T S AAGCACAAGCGATGTGTGGTTAACTCATCACTTAAAATGAGGCATCCCTGTGCAGAAAACAAGCA
20225 T G S AAGCACAAGCGATGTGTGGGTTAACTCATCACTTAAAATGAGGCATCCCTGTGCAGAAAACAAGCA
20225 IS [TG] TGTTTGAAGATTCTTATGGTTGCACCTGAGAGTCGGGCCCCAAGCACAAGCGATGTGTGG[TG]TTAACTCATCACTTAAAATGAGGCATCCCTGTGCAGAAACAAGCACACAAAACACAAGC
20308 I S ACACACAGACACACACATACCCTGCAGCCC
20308 P A S CGCGCCGAGGTTCACATCAAGGAGCCAY
20308 P C S ATGACGTGGCAGACGTCACATCAAGGAGCCY
20308 T A S AGCCTGGCTCCTTGATGTGAAGGCTGCAGGGTATGTGTGTGTCTGTGTGTGT
20308 T C S AGCCTGGCTCCTTGATGTGACGGCTGCAGGGTATGTGTGTGTCTGTGTGTGT
20308 IS [AC] GAACTTGCCAAGAGCTGCAGATGCATGTTGAAGGTTGTGAAGCCTGGCTCCTTGATGTGA[AC]GGCTGCAGGGTATGTGTGTGTCTGTGTGTGTGTGTGTGTGTGTGTG
20318 I A CCAGGATACCGGAGTCCCCGGAGCT
20318 P G A ATGACGTGGCAGACGTCTTTCATCTGAAGTCTTAGCY
20318 P A A CGCGCCGAGGATCTTTCATCTGAAGTCTTAGCY
20318 T G A TGCTGCTAAGACTTCAGATGAAAGATGCTCCGGGGACTCCGGTATCCTGGGC
20318 T A A TGCTGCTAAGACTTCAGATGAAAGATGCTCCGGGGACTCCGGTATCCTGGGC
20318 IS [GA] GCAGCGCTTAATCAAAAATGTCCGGGCCGAGGGGGCCCAGGATACCGGAGTCCCCGGAGC[GA]TCTTTCATCTGAAGTCTTAGCAGCAGCGGCGACCTAACAAAAAGGGAGTTGCTGAATTA
20326 I A CCTCGTGTTTTCTGCCCCAGGGGGA
20326 P T A CBCGCCGAGGTGAGTCAGGGTTCCCY
20326 P C A ATGACGTGGCAGACCGAGTCAGGGTTCCCY
20326 T T A GGTGGGGAACCCTGACTCACCCCCTGGGGCAGAAAACACGAGGGG
20326 T C A GGTGGGGAACCCTGACTCGCCCCCTGGGGCAGAAAACACGAGGGG
20326 IS [TC] CCTTCCTTCCCCCCCTCCTCCTAAGTCTGAAATGCCCCTCGTGTTTTCTGCCCCAGGGGG[TC]GAGTCAGGGTTCCCCACCAAGATGCCCCCTCAACCCAGGACTACCTCCCGGCCTTCTGTT
20346 I S GCTGCCTCGTGGGTGGCAACCAT
20346 P T S CGCGCCGAGGATAACCTCAGTCTTGCTY
20346 P C S ATGACGTGGCAGAGGTAACCTCCAGTCTTGCY
20346 T T S TGTGAGCAAGACTGGAGGTTATTGGTGCCACCCACGAGGCAGCAG
20346 T C S TGTGAGCAAGACTGGAGGTTACTGGTGCCACCCACGAGGCAGCAG
20346 IS [TC] ATGGTTAGCCTGGTGTCCTTCTGCCCAGAAATGCCTACTGTGAGCAAGACTGGAGGTTA[TC]TGGTGCCACCCAGGAGGCAGCAGCATGCCACTTTCCAGAAGGACTGCCCTGTCCCTGTGG
20353 I S CCCTCTCACCTGAGATTTAAAATTGTATACGTGTGTGTGCGA
20353 P A S CGCGCCGAGGTACGTGTGGGTTTTGGY
20353 P G S ATGACGTGGCAGACCACGTGTGGGTTTTGGY
20353 T A S TTGGCCAAAACCCACACGTACGCACACACACGTATACAATTTTAAAATCTCAGGTGAGAGGGGT
20353 T G S TTGGCCAAAACCCACACGTGCGCACACACACGTATACAATTTTAAAATCTCAGGTGAGAGGGGT
20353 IS [AG] CTCTTAAAGGAAAAATGCAACCCCAAATCAAAAAGTACGTATTGGGCCAAAACCCACACGT[AG]CGCACACACACGTATACAATTTTAAAATCTCAGGTGAGAGGGGTGAGCTGACACTCCACA
20355 I S AGGAGCTGCATGAGGGAGGCCCAT
20355 P T S CGCGCCGAGGAGGTTCTGTTTCCAAATACGY
20355 P G S ATGACGTGGCAGACGGTTCTGTTTCCAAATACY
20355 T T S GAAACGTATTTGGAAACAGAACCTTGGGCCTCCCTCATGCAGCTCCTAT
20355 T G S GAAACGTATTTGGAAACAGAACCGTGGGCCTCCCTCATGCAGCTCCTAT
20355 IS [TG] ATGTGAGAAACTTCGGTTCAGGAAAAAGATGGATGAAGAAACGTATTTGGAAACAGAACC[TG]TGGGCCTCCCTCATGCAGCTCCTATTTGAGGGTCGCAGTGCACGCCCAGGAAGGGCGCCA
20358 I S ACATGAGCTATTTTTTTTAAGTATTTAGTACTTTAAAATTTCAAATCAAACAAAAGTGT
20358 P T S CGCGCCGAGGATTTGCCCTTACCTTAGCY
20358 P C S ATGACGTGGCAGACGTTTGCCCTTACCTTAGCY
20358 T T S TAAAGCTAAGGTAAGGGCAAATCACTTTTCTTTGATTTGAAATTTTAAAAGTACTAAATACTTAAAAAAAAAATAGCTCATGT
20358 T C S TAAAGCTAAGGTAAGGGCAAACCACTTTTCTTTGATTTGAAATTTTAAAAGTACTAAATACTTAAAAAAAAAATAGCTCATGT
20358 IS [TC] CTGAGTAACTACATCCACCACAAGCTGACATAGTGGTTTAAAGCTAAGGTAAGGGCAAA[TC]CACTTTTCTTTGATTTGAAATTTTAAAAGTACTAAATACTTAAAAAAAAATAGCTCATGT
20366 I A TGCCATGGAGCCAGCCAGGCCT
20366 P G A ATGACGTGGCAGACGCCCTCCTGGCCCY
20366 P A A CGCGCCGAGGACCCTCCTGGCCCY
20366 T G A CTGCGGGCCAGGAGGGCGGCGTGGCTGGCTCCATGGCACC
20366 T A A CTGCGGGCCAGGAGGGTGGCGTGGCTGGCTCCATGGCACC
20366 IS [GA] CTACTCAGAGCAGCTGCAGCTCAGCCACCAACCAGGAGGTGCCATGGAGCCAGCCAGCCC[GA]CCCTCCTGGCCCGCAGTGTTGGCATCTGGAAATGGGGGCCATCTGGCCGCTGTCTCCAG
20372 I A TCTCTTTTCAGATTTTTTGGGTCGGACGGAGATCCGA
20372 P C A ATGACGTGGCAGACCGTGGCGGCATCAY
20372 P T A CGCGCCGAGGTGTGGCGGACATCAAY
20372 T C A TTTCTTGATGTCCGCCACGCGATCTCCGTCCGACCCAAAAAATCTCAAAAGAGAAC
20372 T T A TTTCTTGATGTCCGCCACACGGATCTCCGTCCGACCCAAAAAATCTCAAAAGAGAAC
20372 IS [CT] TCCCTCTTAGGAGGGTCTGTTTGTTCTCTTTTCAGATTTTTTGGGTCGGACGGAGATCCG[CT]GTGGCGGACATCAAGAAAGACCAGGGCTCCAAAGGTCCAGTTACGAAGTGTCTTCTGCTG
20389 I A CCAGCATGGCCACACCTGCACAGTA
20389 P T A CGCGCCGAGGTGGCAGTCTGTGTCTCY
20389 P C A ATGACGTGGCAGACCGGCAGTCTGTGTCTY
20389 T T A GGCAGAGACACAGACTGCCAACTGTGCAGGTGTGGCCATGCTGGGG
20389 T C A GGCAGAGACACAGACTGCCGACTGTGCAGGTGTGGCCATGCTGGGG
20389 IS [TC] ACGGTTGAGGTGCCTCCTGGGACCAAGCAGAGGAGGCCCCAGCATGGCCACACCTGCACAGT[TC]GGCAGTCTGTGTCTCTGCCCTGTGGAGCTCAGTGGCACTTCTACCAGCCACTGAGGCACT
20394 I A TGAACACATTCTCCCCTAACTGAGGAGAGGAAGCTT
20394 P A A CGCGCCGAGGAGCAAGTGTTAACAGTATTY
20394 P G A ATGACGTGGCAGACGGCAAGCTGTTAACAGTATY
20394 T A A TACGAATACTGTTAACACCTTGCTAGCTTCCTCTCCTCAGTTAGGGGAGAATGTGTTCAGG
20394 T G A TACGAATACTGTTAACACCTTGCCAGCTTCCTCTCCTCAGTTAGGGGAGAATGTGTTCAGG
20394 IS [AG] AGATGGCACATGGTGAGAAGGTGCCTGAACACATTCTCCCCTAACTGAGGAGAGGAAGCT[AG]GCAAGGTGTTAACAGTATTCGTACGTCCTCACTCTCTCATAATCATGGGCCTTCAGGTA

FIGURE 129F

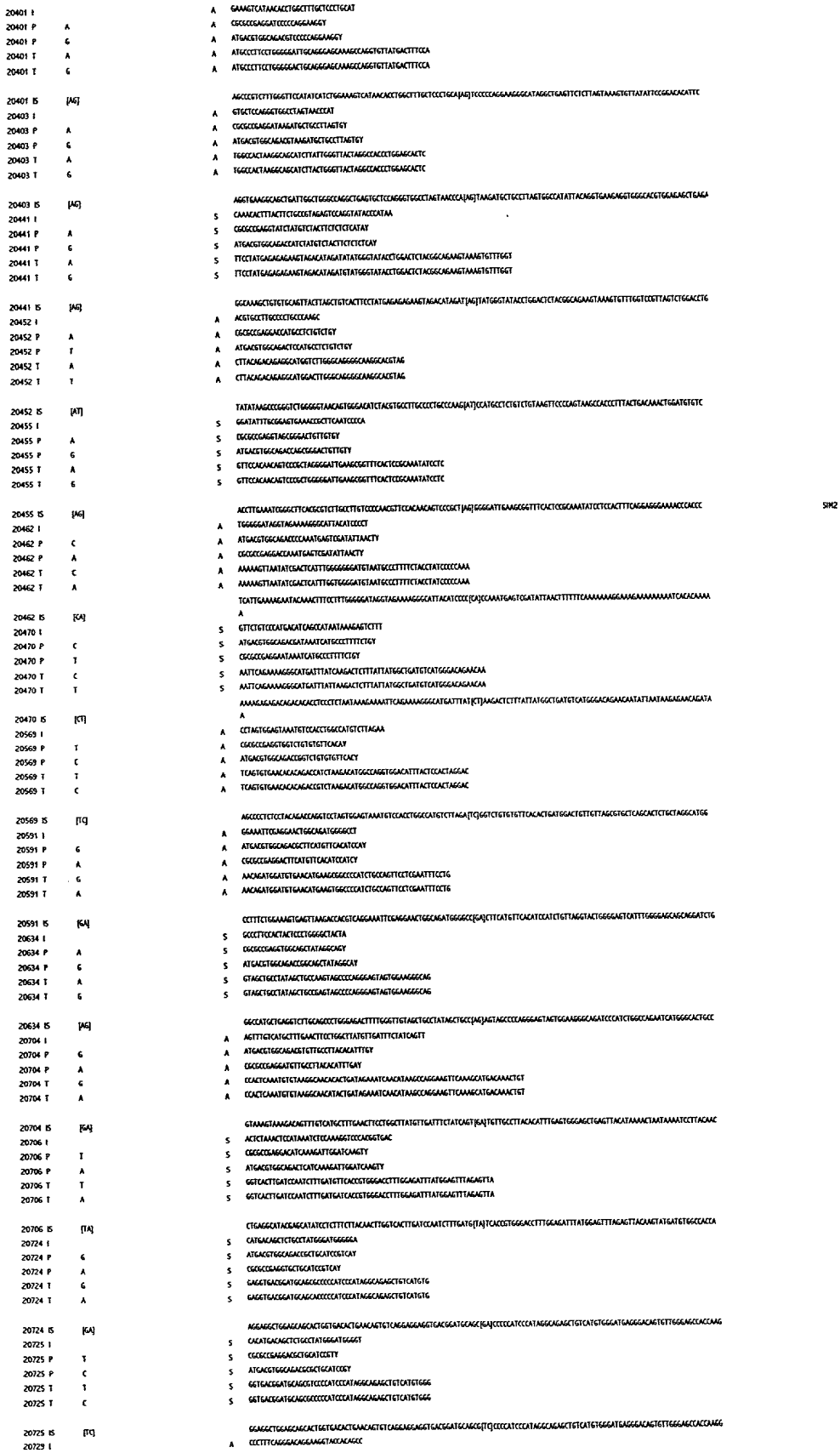

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20729 I
SIM2

FIGURE 129F

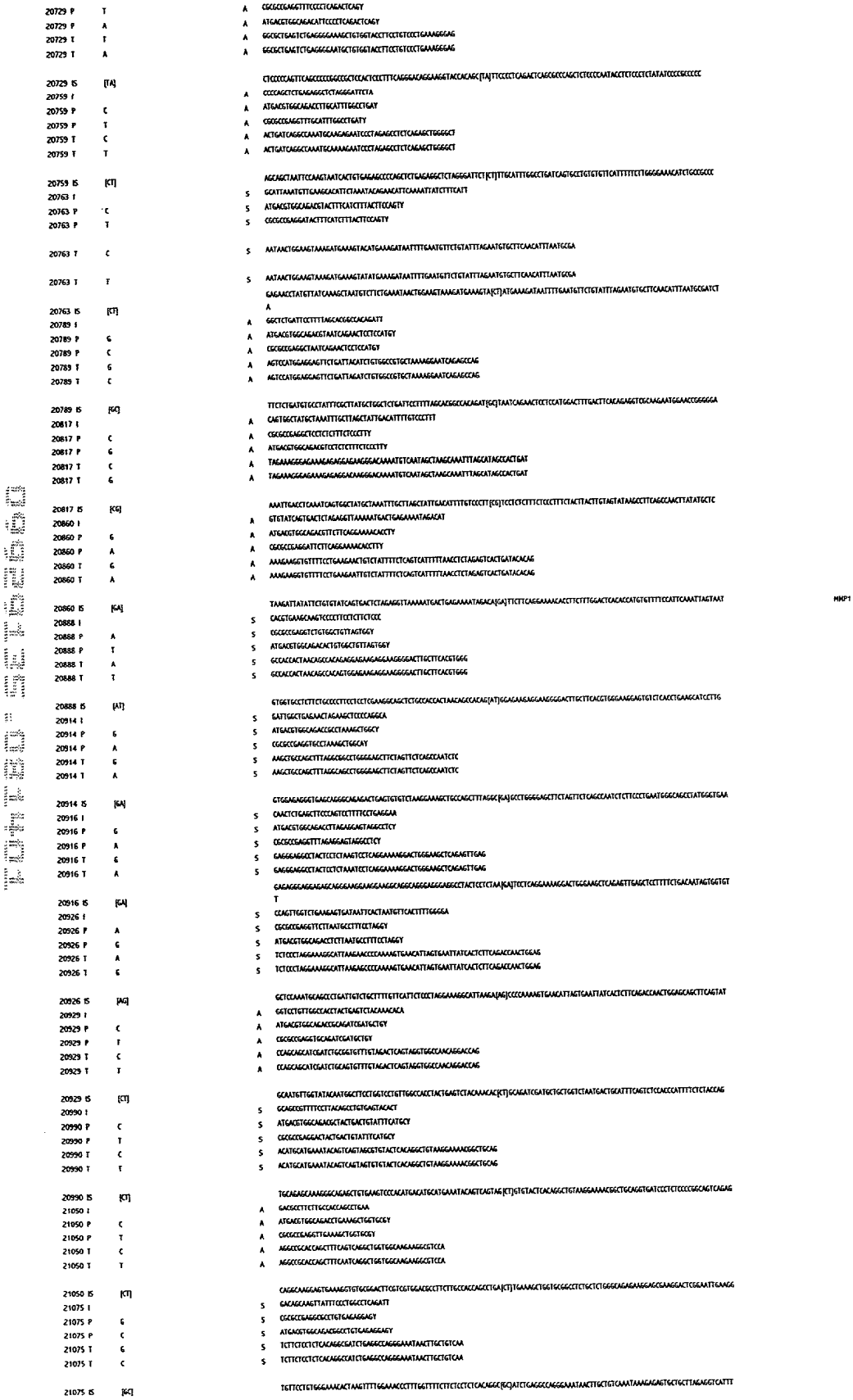

20729 P T A CGCGCCGAGGTTTCCCCTCAGACTCAGY
20729 P A A ATGACGTGGCAGACATTCCCCTCAGACTCAGY
20729 T T A GGCGCTGAGTCTGAGGGGAAAGCTGTGGTACCTTCCTGTCCCTGAAAGGGAG
20729 T A A GGCGCTGAGTCTGAGGGGAATGCTGTGGTACCTTCCTGTCCCTGAAAGGGAG
20729 IS [TA] CYCCCCCAGTTCAGCCCCCGGGGGCYCCACTCCCTTTCAGGGACAGGAAGGTACCACAGC[TA]TTCCCCTCAGACTCAGCGCCCAGCTCTCCCCAATACCTCTCCCCTCATATCCCCGCCCC
20759 I A CCCCAGCTCTGAAGAGCTCTAGGGATTCTA
20759 P C A ATGACGTGGCAGACCTTGCATTTGGCCTGAT
20759 P T A CGCGCCCAGGTTTGCATTTGGCCTGATY
20759 T C A ACTGATCAGGCCAAATGCAACAGAATCCCTAGAGCCTCTCAGAGCTGGGGCT
20759 T T A ACTGATCAGGCCAAATGCAAAAGAATCCCTAGAGCCTCTCAGAGCTGGGGCT
20759 IS [CT] AGCAGCTAATTCCAAGTAATCACTGTGAGAGCCCCAGCTCTGAGAGGCTCTAGGGATTCT[CT]TTGCATTTGGCCTGATCAGTGCCTGTGTGTTCATTTTTCTTGGGGAAACATCTGCCGCCC
20763 I S GCATTAAATGTTGAAGCACATTCTAAATACAGAACATTCAAAATTATCTTTCATT
20763 P C S ATGACGTGGCAGACGTACTTTCATCTTTACTTCCAGTY
20763 P T S CGCGCCGAGGATACTTTCATCTTTACTTCCAGTY
20763 T C S AATAACTGGAAGTAAAGATGAAAGTACATGAAAGATAATTTTGAATGTTCTGTATTTAGAATGTGCTTCAACATTTAATGCGA
20763 T T S AATAACTGGAAGTAAAGATGAAAGTATATGAAAGATAATTTTGAATGTTCTGTATTTAGAATGTGCTTCAACATTTAATGCGA
20763 IS [CT] GAGAACCTATGTTATCAAAGCTAATGTCTTCTGAAATAACTGGAAGTAAAGATGAAAGTA[CT]ATGAAAGATAATTTTGAATGTTCTGTATTTAGAATGTGCTTCAACATTTAATGCGATCT
20789 I A GGCTCTGATTCCTTTTAGCAGCGGCCACAGATT
20789 P G A ATGACGTGGCAGAGGTAATCAGAACTCCTCCATGY
20789 P C A CGCGCCGAGGCTAATCAGAACTCCTCCATGY
20789 T G A AGTCCATGGAGGAGTTCTGATTAGATCTGTGGCCGTGCTAAAAGGAATCAGAGCCAG
20789 T C A AGTCCATGGAGGAGTTCTGATTAGATCTGTGGCCGTGCTAAAAGGAATCAGAGCCAG
20789 IS [GC] TTCTCTGATGTGCCTATTTCGCTTATGCTGGCTCTGATTCCTTTTAGCACGGCCACAGAT[GC]TAATCAGAACTCCTCCATGGACTTTGACTTCACAGAGGTGCCAAGAATGGAACCGGGGGA
20817 I A CAGTGGCTATGCTAAATTTGCTTAGCTATTGACATTTGTCCCTTT
20817 P C A CGCGCCGAGGCTCCTCTCTTTCTCCCTTY
20817 P G A ATGACGTGGCAGACGTCCTCTCTTTCTCCCTTY
20817 T C A TAGAAAGGGAGAAAAGAGGAGAAGGGACAAAATGTCAATAGCTAAGCAAATTTAGCATAGCCACTGAT
20817 T G A TAGAAAGGGAGAAAAGAGGCACAAGGGACAAAATGTCAATAGCTAAGCAAATTTAGCATAGCCACTGAT
20817 IS [CG] AAATTGACCTCAAATCAGTGGCTATGCTAAATTTGCTTAGCTATTGACATTTGTCCCTT[CG]TCCTCTCTTTCTCCCTTTCTACTTACTTGTAGTATAAGCCTTCAGCCAACTTATATGCTC
20860 I A GTGTATCAGTGACTCTAGAGGTTAAAAATGACTGAGAAAATAGACAT
20860 P G A ATGACGTGGCAGACGTTCTTCAGGAAAACACCTY
20860 P A A CGCGCCGAGGATTCTTCAGGAAAACACCTTY
20860 T G A AAAGAAGGTGTTTTCCTGAAGAACTGTCTATTTTCTCAGTCATTTTTAACCTCTAGAGTCACTGATACACAG
20860 T A A AAAGAAGGTGTTTTCCTGAAGAATTGTCTATTTTCTCAGTCATTTTTAACCTCTAGAGTCACTGATACACAG
20860 IS [GA] TAAGATTATATTCTGTGTATCAGTGACTCTAGAGGTTAAAAATGACTGAGAAAATAGACA[GA]TTCTTCAGGAAAACACCTTCTTTGGACTCACACCATGTGTTTTCCATTCAAATTAGTAAT MMP1
20888 I S CACGTGAAGCAAGTCCCCTTCCTCTTCTCCC
20888 P A S CGCGCCGAGGTCTGTGGCTGTTAGTGGY
20888 P T S ATGACGTGGCAGACACTGTGGCTGTTAGTGGY
20888 T A S GCCACCACTAACAGCCACAGTGGAGAAGAGGAAGGGGACTTGCTTCACGTGGG
20888 T T S GCCACCACTAACAGCCACAGTGGAGAAGAGGAAGGGGACTTGCTTCACGTGGG
20888 IS [AT] GTGGTGCCTCTTCTGCCCCTTCCTCCTCGAAGGCAGCTCTGCCACCACTAACAGCCACAG[AT]GGAGAAGAGGAAGGGGACTTGCTTCACGTGGGAAGGAGTGTCTCACCTGAAGCATCCTTG
20914 I S GATTGGCTGAGAACTAGAAGCTCCCCAGGCA
20914 P G S ATGACGTGGCAGACCGCCTAAAGCTGGCY
20914 P A S CGCGCCGAGGTGCCTAAAGCTGGCAY
20914 T G S AAGCTGCCAGCTTTAGGCGGCCTGGGGAAGCTTCTAGTTCTCAGCCAATCTC
20914 T A S AAGCTGCCAGCTTTAGGCAGCCTGGGGAAGCTTCTAGTTCTCAGCCAATCTC
20914 IS [GA] GTGGAAGAGGGTGAGCAGGGCAGAGACTGAGTGTGTCAAGGAAAGCTGCCAGCTTTAGGC[GA]CCCTGGGGAGCTTCTAGTTCTCAGCCAATCTCTTCCCTGAATGGGCAGCCTATGGGTGAA
20916 I S CAACTCTGAGCTTCCCAGTCCTTTCCTGAGGAA
20916 P G S ATGACGTGGCAGACCTTAGAGGAGTAGGCCTCY
20916 P A S CGCGCCGAGGTTTAGAGGAGTAGGCCTCY
20916 T G S GAGGGAGGCCTACTCCTCTAAGTCCTCAGGAAAAGGACTGGGAAGCTCAGAGTTGAG
20916 T A S GAGGGAGGCCTACTCCTCTAAATCCTCAGGAAAAGGACTGGGAAGCTCAGAGTTGAG
20916 IS [GA] GACAGGCAGGAGAGCAGGGAAGGAAGGAAGGCAGGCAGGGAGGGAGGCCTACTCCTCTAA[GA]TCCTCAGGAAAAGGACTGGGAAGCTCAGAGTTGAGCTCCTTTTCTGACAATAGTGGTGT
20926 I S CCAGTTGGTCTGAAGAGTGATAATTCACTAATGTTCACTTTTGGGGA
20926 P A S CGCGCCGAGGTTCTTAATGCCTTTCCTAGGY
20926 P G S ATGACGTGGCAGACCTCTTAATGCCTTTCCTAGGY
20926 T A S TCTCCCTAGGAAAGGCATTAAGAACCCCAAAAGTGAACATTAGTGAATTATCACTCTTCAGACCAACTGGAG
20926 T G S TCTCCCTAGGAAAGGCATTAAGAGCCCCAAAAGTGAACATTAGTGAATTATCACTCTTCAGACCAACTGGAG
20926 IS [AG] GCTCCAAATGCAGCCCTGATTGTCTGCTTTTGTTCATTCTCCCTAGGAAAGGCATTAAGA[AG]CCCCAAAAGTGAACATTAGTGAATTATCACTCTTCAGACCAACTGGAGCAGCTTCAGTAT
20929 I A GGTCCTGTTGGCCACCTACTGAGTCTACAAACACA
20929 P C A ATGACGTGGCAGACCGCAGATCGATGCTGY
20929 P T A CGCGCCGAGGTGCAGATCGATGCTGY
20929 T C A CCAGCAGCATCGATCTGCGGTGTTGTAGACTCAGTAGGTGGCCAACAGGACCAG
20929 T T A CCAGCAGCATCGATCTGCAGTGTTTGTAGACTCAGTAGGTGGCCAACAGGACCAG
20929 IS [CT] GCAATGTTGGTATACAATGGCTTCCTGGTCCTGTTGGCCACCTACTGAGTCTACAAACAC[CT]GCAGATCGATGCTGCTGGTCTAATGACTGCATTTCAGTCTCCACCCATTTTCTCTACCAG
20990 I S GCAGCCGTTTTCCTTACAGCCTGTGAGTACACT
20990 P C S ATGACGTGGCAGAGGCTACTGACTGTATTTCATGCY
20990 P T S CGCGCCGAGGACTACTGACTGTATTTCATGCY
20990 T C S ACATGCATGAAATACAGTCAGTAGCGTGTACTCACAGGCTGTAAGGAAAACGGCTGCAG
20990 T T S ACATGCATGAAATACAGTCAGTAGTGTGTACTCACAGGCTGTAAGGAAAACGGCTGCAG
20990 IS [CT] TGCAGAGCAAAGGGCAGAGCTGTGAAGTCCCACATGACATGCATGAAATACAGTCAGTAG[CT]GTGTACTCACAGGCTGTAAGGAAAACGGCTGCAGGTGATCCCTCTCCCCGGCAGTCAGAG
21050 I A GACGCCTTCTTGCCACCAGCCTGAA
21050 P C A ATGACGTGGCAGACCTGAAAGCTGGTGCGY
21050 P T A CGCGCCGAGGTTGAAAGCTGGTGCGY
21050 T C A AGGCCGCACCAGCTTTCAGTCAGGCTGGTGGCAAGAAGGCGTCCA
21050 T T A AGGCCGCACCAGCTTTCAATCAGGCTGGTGGCAAGAAGGCGTCCA
21050 IS [CT] CAGGCAAGGAGTGAAAGGTGTGCGGACTTCGTCGTGGACGCCTTCTTGCCACCAGCCTGA[CT]TGAAAGCTGGTGCGGCCTCTGCTCTGGGCAGAGAAGGAGCGAAGGACTCGGAATTGAAGG
21075 I S GACAGCAAGTTATTTCCCTGGCCTCAGATT
21075 P G S CGCGCCGAGGCGCCTGTGCAGAGGAGY
21075 P C S ATGAGTGGCAGAGGCCTGTCAGAGGAGY
21075 T G S TCTTCTCCTCTCACAGGCGATCTGAGGCCAGGGAAATAACTTGCTGTCAA
21075 T C S TCTTCTCCTCTCACAGGCCATCTGAGGCCAGGGAAATAACTTGCTGTCAA
21075 IS [GC] TGTTCCTGTGGGAAACACTAAGTTTTGGAAACCCTTTGGTTTTCTTCTCCTCTCACAGGC[GC]ATCTGAGGCCAGGGAAATAACTTGCTGTCAAATAAAGAGAGTGCTGCTTAGAGGTCATTT

FIGURE 129F

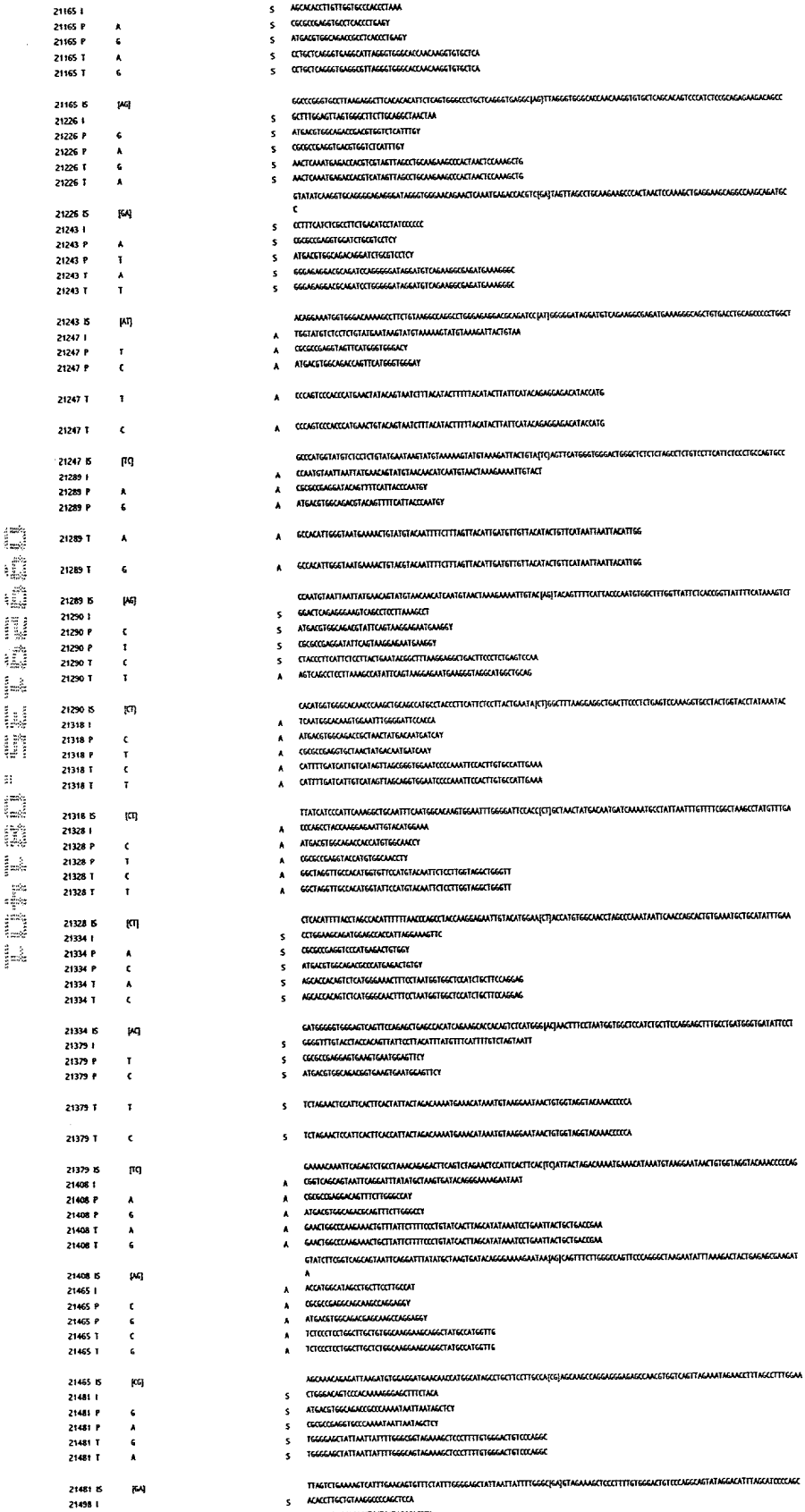

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21165 P A S CGCGCCGAGGTGCCTCACCCTGAGY
21165 P G S ATGACGTGGCGAGACCGCCTCACCCTGAGY
21165 T A S CCTGCTCAGGGTGAGGCATTAGGGTGGGCACCAACAGGTGTGCTCA
21165 T G S CCTGCTCAGGGTGAGGCGTTAGGGTGGGCACCAACAGGTGTGCTCA
21165 IS [AG] GGCCCGGGTGCCTTAAGAGGCTTCACACACATTCTCAGTGGGCCCTGCTCAGGGTGAGGC[AG]TTAGGGTGGGCACCAACAAGGTGTGCTCAGCACAGTCCCATCTCCCGCAGACAAGACAGCC
21226 I S GCTTTGGAGTTAGTGGGCTTCTTGCAGGCTAACTAA
21226 P G S ATGACGTGGCAGACCGACGTGGTCTCATTTGY
21226 P A S CGCGCCGAGGTGACGTGGTCTCATTTGY
21226 T G S AACTCAAATGAGACCACGTCGTAGTTAGCCTGCAAGAAGCCCACTAACTCCAAAGCTG
21226 T A S AACTCAAATGAGACCACGTCATAGTTAGCCTGCAAGAAGCCCACTAACTCCAAAGCTG
21226 IS [GA] GTATATCAAGGTGCAGGGGAGAGGGATAGGGTGGGAACAGAACTCAAATGAGACCACGTC[GA]TAGTTAGCCTGCAAGAAGCCCACTAACTCCAAAGCTGAGGAAGCAGGCCAAGCAGATGC C
21243 I S CCTTTCAGCTCGCCTTCTGACATCCTATCCCCCC
21243 P A S CGCGCCCAGGTGGATCTGCGTCTCY
21243 P T S ATGACGTGGCAGACAGGATCTGCGTCCTCY
21243 T A S GGGAGAGGACGCAGATCCAGGGGGATAGGATGTCAGAAGGCGAGATGAAAGGGC
21243 T T S GGGAGAGGACGCAGATCCTGGGGGATAGGATGTCAGAAGGCGAGATGAAAGGGC
21243 IS [AT] ACAGGAAATGGTGGGACAAAAGCCTTCTGTAAGGCCAGGCCTGGGAGAGGACGCAGATCC[AT]GGGGGATAGGATGTCAGAAGGCGAGATGAAAGGGCAGCTGTGACCTGCAGCCCCCTGGCT
21247 I A TGGTATGTCTCCTCTGTATGAATAAGTATGTAAAAAGTATGTAAAGATTACTGTAA
21247 P T A CGCGCCGAGGTAGTTCATGGGTGGGACY
21247 P C A ATGACGTGGCAGACCAGTTCATGGGTGGGAY
21247 T T A CCCAGTCCCACCCATGAACTATACAGTAATCTTTACATACTTTTTACATACTTATTCATACAGAGGAGACATACCATG
21247 T C A CCCAGTCCCACCCATGAACTGTACAGTAATCTTTACATACTTTTTACATACTTATTCATACAGAGGAGACATACCATG
21247 IS [TC] GCCCATGGTATGTCTCCTCTGTATGAATAAGTATGTAAAAAGTATGTAAAGATTACTGTA[TC]AGTTCATGGGTGGGACTGGGCTCTCTCTAGCCTCTGTCCTTCATTCTCCCTGCCAGTGCC
21289 I A CCAATGTAATTAATTATGAACAGTATGTAACAACATCAATGTAACTAAAGAAAATTGTACT
21289 P A A CGCGCCGAGGATACAGTTTTCATTACCCAATGY
21289 P G A ATGACGTGGCAGACGTACAGTTTTCATTACCCAATGY
21289 T A A GCCACATTGGGTAATGAAAACTGTATGTACAATTTCTTTAGTTACATTGATGTTGTTACATACTGTTCATAATTAATTACATTGG
21289 T G A GCCACATTGGGTAATGAAAACTGTAGGTACAATTTCTTTAGTTACATTGATGTTGTTACATACTGTTCATAATTAATTACATTGG
21289 IS [AG] CCAATGTAATTAATTATGAACAGTATGTAACAACATCAATGTAACTAAAGAAAATTGTAC[AG]TACAGTTTTCATTACCCAATGTGGCTTTGGTTATTCTCACCGGTTATTTTCATAAAGTCT
21290 I S GGACTCAGAGGGAAGTCAGCCTCCTTAAAGCCT
21290 P C S ATGACGTGGCAGAGTATTCAGTAAGGAGAATGAAGGY
21290 P T S CGCGCCGAGGATATTCAGTAAGGAGAATGAAGGY
21290 T C S CTACCCTTCATTCTCCTTACTGAATACGGCTTTAAGGAGGCTGACTTCCCTCTGAGTCCAA
21290 T T A AGTCAGCCTCCTTAAAGCATATTCAGTAAGGAGAATGAAGGGTAGGCATGGCTGCAG
21290 IS [CT] CACATGGTGGGCACAACCCAAGCTGCAGCCATGCCTACCCTTCATTCTCCTTACTGAATA[CT]GGCTTTAAGGAGGCTGACTTCCCTCTGAGTCCAAAGGTGCCTACTGGTACCTATAAATAC
21318 I A TCAATGGCACAAGTGGAATTTGGGGATTCCACCA
21318 P C A ATGACGTGGCAGACCGCTAACTATGACAATGATCAY
21318 P T A CGCGCCGAGGTGCTAACTATGACAATGATCAAY
21318 T C A CATTTTGATCATTGTCATAGTTAGCGGGTGGAATCCCCAAATTCCACTTGTGCCATTGAAA
21318 T T A CATTTTGATCATTGTCATAGTTAGCAGGTGGAATCCCCAAATTCCACTTGTGCCATTGAAA
21318 IS [CT] TTATCATCCCATTCAAAGGCTGCAATTTCAATGGCACAAGTGGAATTTGGGGATTCCACC[CT]GCTAACTATGACAATGATCAAAATGCCTATTAATTTGTTTCGGCTAAGCCTATGTTTGA
21328 I A CCCAGCCTACCAAGGAGAATTGTACATGGAAA
21328 P C A ATGACGTGGCAGACCACCATGTGGCAACCY
21328 P T A CGCGCCGAGGTACCATGTGGCAACCTY
21328 T C A GGCTAGGTTGCCACATGGTGTTCCATGTACAATTCTCCTTGGTAGGCTGGGTT
21328 T T A GGCTAGGTTGCCACATGGTATTCCATGTACAATTCTCCTTGGTAGGCTGGGTT
21328 IS [CT] CTCACATTTTACCTAGCCACATTTTTTAACCCAGCCTACCAAGGAGAATTGTACATGGAA[CT]ACCATGTGGCAACCTAGCCCAAATAATCAACCAGCACTGTGAAATGCTGCATATTTGAA
21334 I S CCTGGAAGCAGATGGAGCCACCATTAGGAAAGTTC
21334 P A S CGCGCCGAGGTCCCATGAGACTGTGGY
21334 P C S ATGACGTGGCAGACGCCCATGAGACTGTGY
21334 T A S AGCACCACAGTCTCATGGGAAACTTTCCTAATGGTGGCTCCATCTGCTTCCAGGAG
21334 T C S AGCACCACAGTCTCATGGGCAACTTTCCTAATGGTGGCTCCATCTGCTTCCAGGAG
21334 IS [AC] GATGGGGGTGGGAGTCAGTTCCAGAGCTGAGCCACATCAGAAGCACCACAGTCTCATGGG[AC]AACTTTCCTAATGGTGGCTCCATCTGCTTCCAGGAGCTTTGCCTGATGGGTGATATTCCT
21379 I S GGGGTTTGTACCTACACACAGTTATTCCTTACATTTATGTTTCATTTTGTCTAGTAATT
21379 P T S CGCGCCGAGGAGTGAAGTGAATGGAGTTCY
21379 P C S ATGACGTGGCAGACGGTGAAGTGAATGGAGTTCY
21379 T T S TCTAGAACTCCATTCACTTCACTATTACTAGACAAATGAAACATAAATGTAAGGAATAACTGTGGTAGGTACAAACCCCCA
21379 T C S TCTAGAACTCCATTCACTTCACCATTACTAGACAAATGAAACATAAATGTAAGGAATAACTGTGGTAGGTACAAACCCCCA
21379 IS [TC] GAAAACAAATTCAGAGTCTGCCTAAACAGAGACTTCAGTCTAGAACTCCATTCACTT[TC]ATTACTAGACAAATGAAACATAAATGTAAGGAATAACTGTGGTAGGTACAAACCCCCAG
21408 I A CGGTCAGCAGTAATTCAGGATTTATATGCTAAGTGATACAGGGAAAAGAATAAT
21408 P A A CGCGCCGAGGACAGTTTCTTGGGCCAY
21408 P G A ATGACGTGGCAGACGCAGTTTCTTGGGCCY
21408 T A A GAACTGGCCCAAGAAACTGTTTATTCTTTTCCCTGTATCACTTAGCATATAAATCCTGAATTACTGCTGACCGAA
21408 T G A GAACTGGCCCAAGAAACTGCTTATTCTTTTCCCTGTATCACTTAGCATATAAATCCTGAATTACTGCTGACCGAA
21408 IS [AG] GTATCTTCGGTCAGCAGTAATTCAGGATTTATATGCTAAGTGATACAGGGAAAAGAATAAAG[AG]TTCTTGGGCCAGTTCCCAGGGCTAAGAATATTTAAAGACTACTGAGAGCGAAGAT A
21465 I A ACCATGGCATAGCCTGCTTCCTTGCCAT
21465 P C A CGCGCCGAGGCAGCAAGCCAGGAGGY
21465 P G A ATGACGTGGCAGACGAGCAAGCCAGGAGGY
21465 T C A TCTCCCTCCTGGCTTGCTGTGGCAAGGAAGCAGGCTATGCCATGGTTG
21465 T G A TCTCCCTCCTGGCTTGCTCTGGCAAGGAAGCAGGCTATGCCATGGTTG
21465 IS [CG] AGCAAACAGACATTAAGATGTGGAGGATGAACAACCATGGCATAGCCTGCTTCCTTGCCA[CG]AGCAAGCCAGGAGGGAGAGCCAACGTGGTCAGTTAGAAATAGAAACCTTTAGCCTTTGGAA
21481 I S CTGGGACAGTCCCACAAAAAGGAGCTTTCTACA
21481 P G S ATGACGTGGCAGACCGCCCAAAATAATTAATAGCTCY
21481 P A S CGCGCCGAGGTGCCCAAAATAATTAATAGCTCY
21481 T G S TGGGCAGCTATTAATTATTTTGGGCGGTAGAAAGCTCCCTTTTGTGGGACTGTCCCAGGC
21481 T A S TGGGCAGCTATTAATTATTTTGGGCAGTAGAAAGCTCCCTTTTGTGGGACTGTCCCAGGC
21481 IS [GA] TTAGTCTGAAAAGTCATTTGAACAGTGTTTCTATTTGGGGAGCTATTAATTATTTTGGGC[GA]GTAGAAAGCTCCCTTTTGTGGGACTGTCCCAGGCAGTATAGGACATTTAGCATCCCCAGC
21498 I S ACACCTTGCTGTAAGGCCCCAGCTCCA
21498 P G S ATGACGTGGCACACCTGCTGATAGGCACCCY

FIGURE 129F

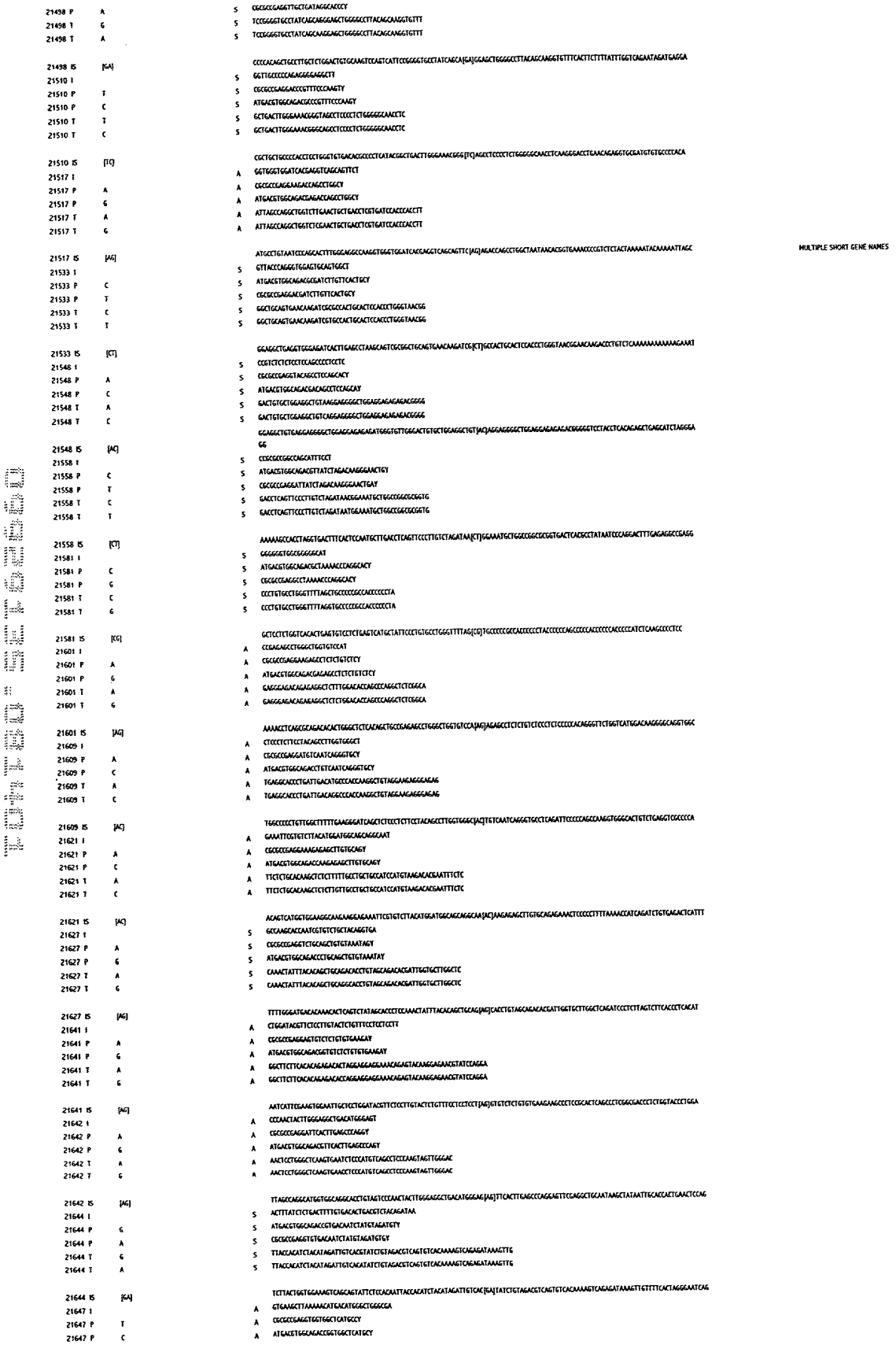


FIGURE 129F

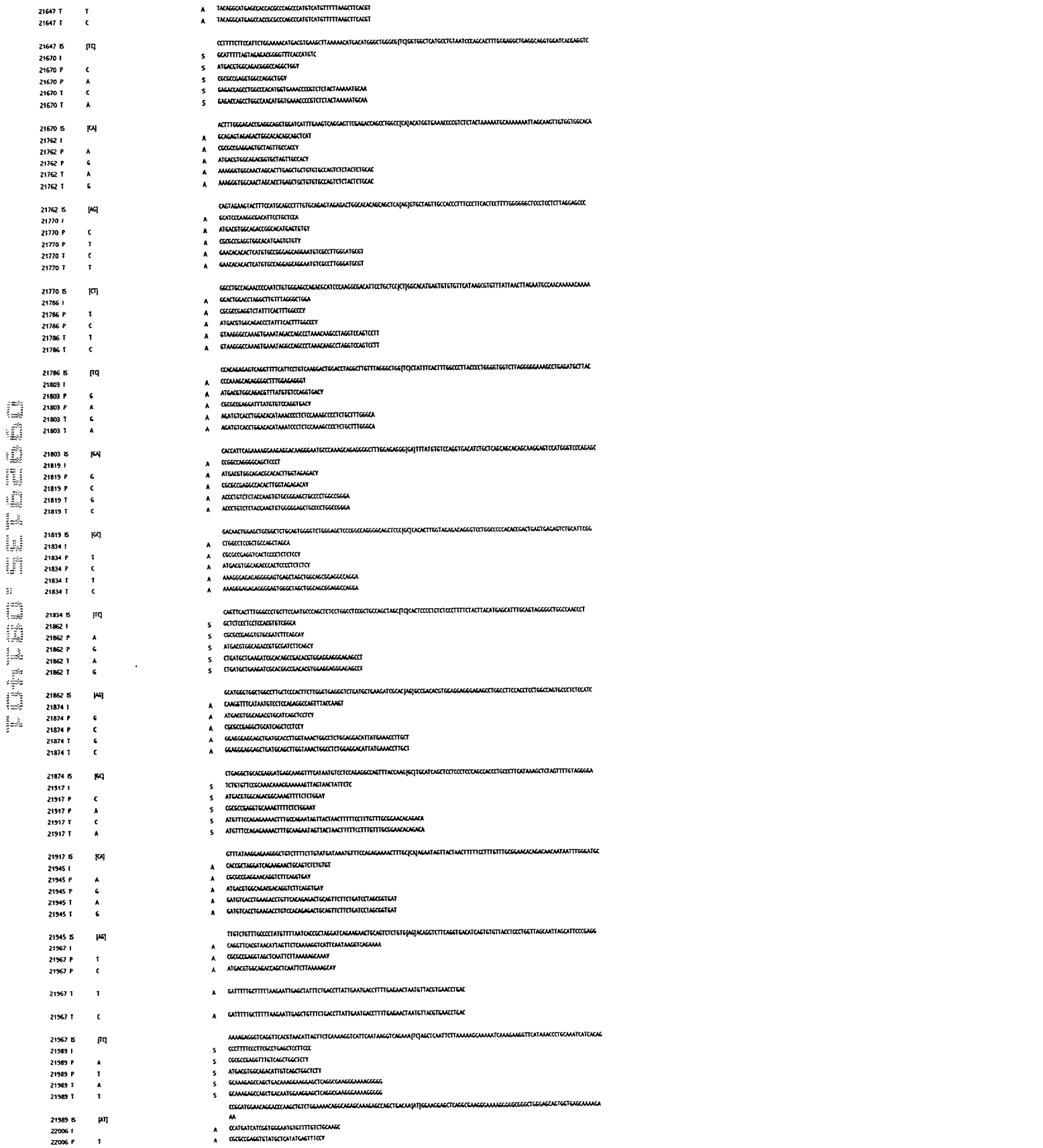
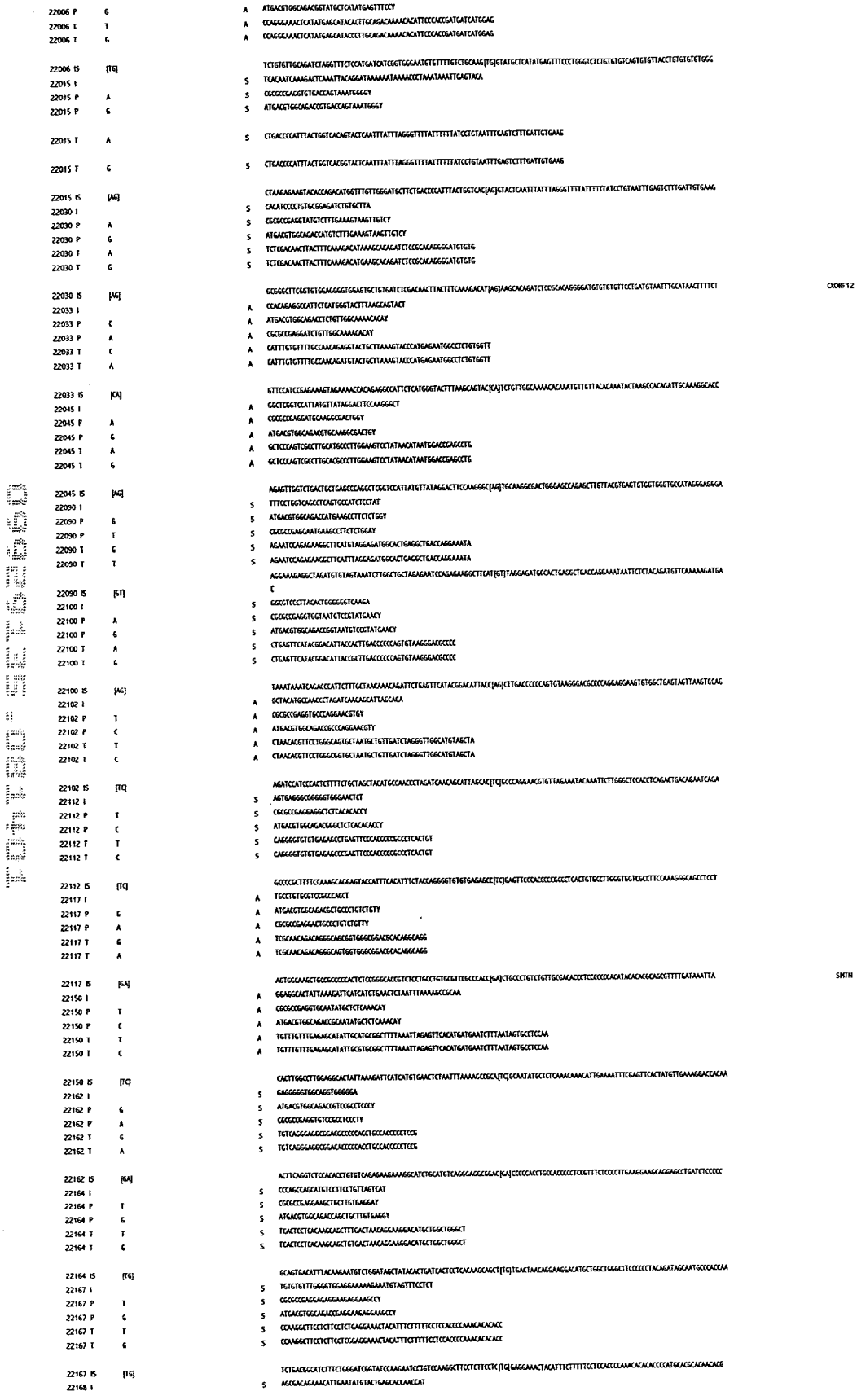


FIGURE 129F



Document ID: 10022.1.1 Date: 2001-10-25 Time: 10:30:00

FIGURE 129F

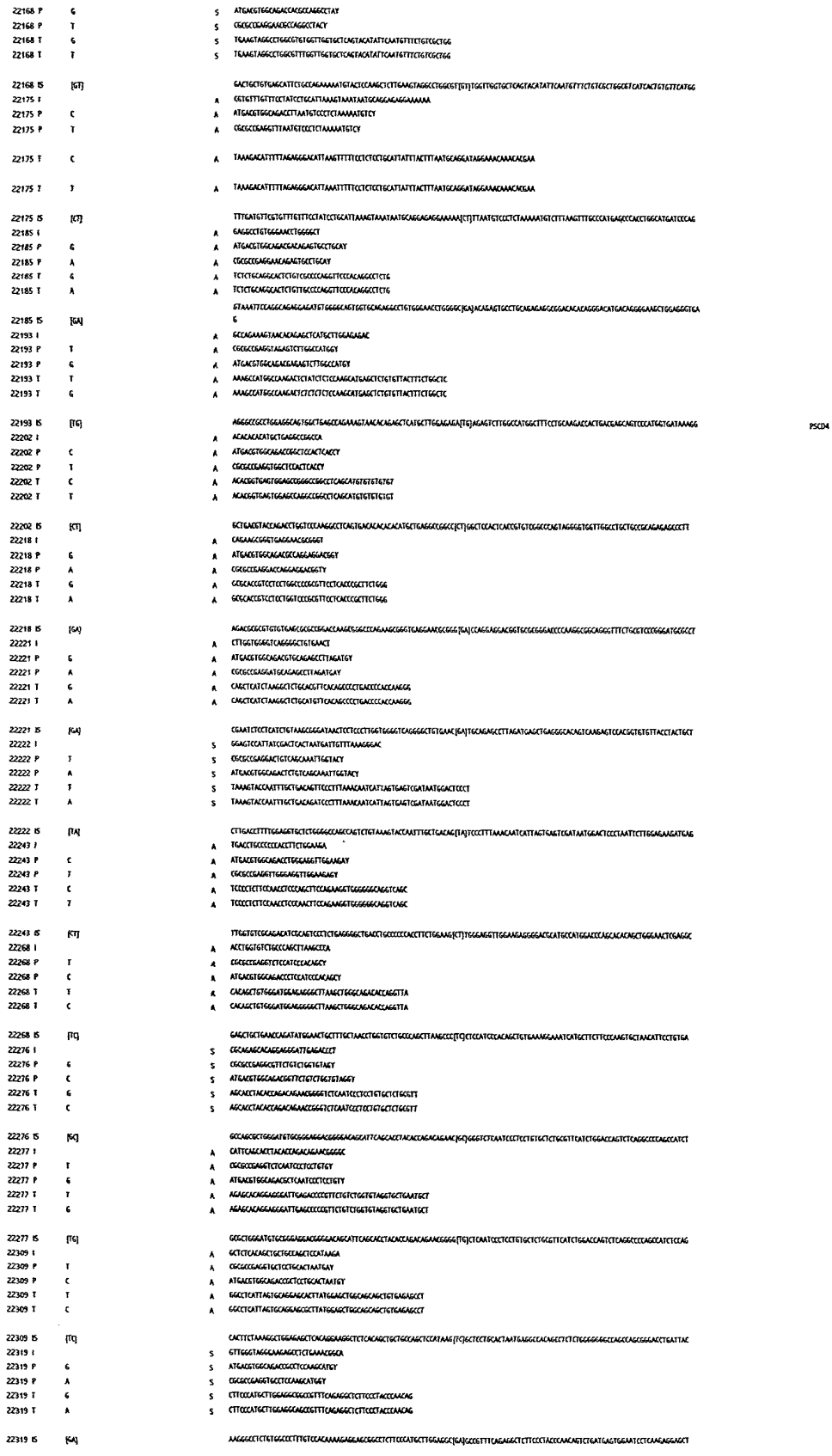
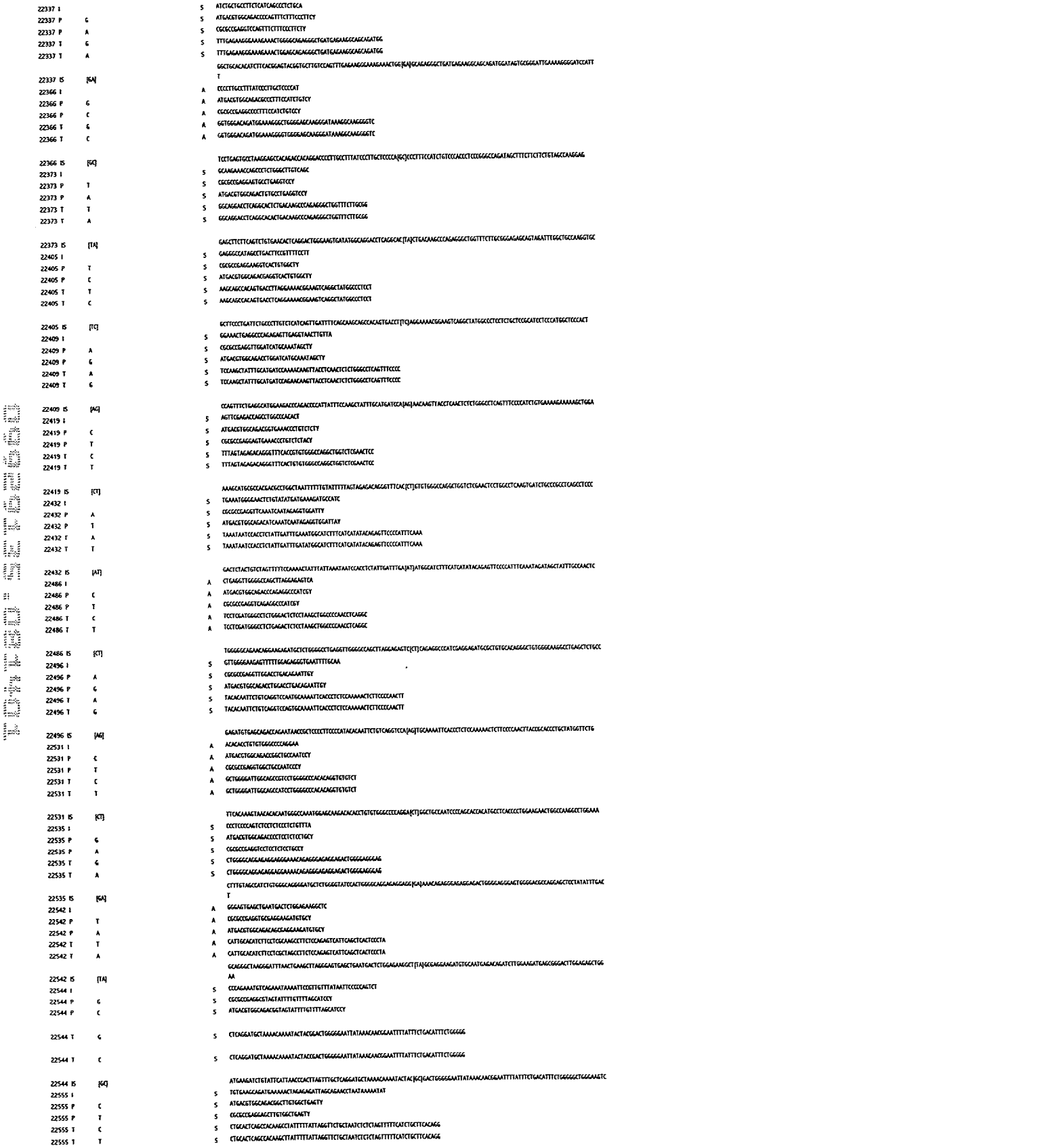

22168 P G S ATGACGTGGCAGACCACGCCAGGCCTAY
22168 P T S CGCGCCGAGGAACGCCAGGCCTACY
22168 T G S TGAAGTAGGCCTGGCGTGTGGTTGGTGCTCAGTACATATTCAATGTTTCTGTCGCTGG
22168 T T S TGAAGTAGGCCTGGCGTTTGGTTGGTGCTCAGTACATATTCAATGTTTCTGTCGCTGG
22168 IS [GT] GACTGCTGTGAGCATTCTGCCACAAAAATGTACTCCAAGCTCTTGAAGTAGGCCTGGCGT[GT]TGGTTGGTGCTCAGTACATATTCAATGTTTCTGTCGCTGGCGTCATCACTGTGTTCATGG
22175 I A GGTGTTTGTTCCTATCCTGCATTAAAGTAAATAATGCAGGAGAGGAAAAA
22175 P C A ATGACGTGGCAGACCTTAATGTCCCTCTAAAAATGTCY
22175 P T A CGCGCCGAGGTTTAATGTCCCTCTAAAAATGTCY
22175 F C A TAAAGACATTTTTAGAGGGACATTAAGTTTTTCCTCTCCTGCATTATTTACTTTAATGCAGGATAGGAAACAAACACGAA
22175 T T A TAAAGACATTTTTAGAGGGACATTAAATTTTTCCTCTCCTGCATTATTTACTTTAATGCAGGATAGGAAACAAACACGAA
22175 IS [CT] TTTGATGTTCGTGTTTGTTTCCTATCCTGCATTAAAGTAAATAATGCAGGAGAGGAAAAA[CT]TTAATGTCCCTCTAAAAATGTCTTTAAGTTTGCCCATGAGCCCACCTGGCATGATCCCAG
22185 I A GAGGCCTGTGGGAAACCTGGGGCT
22185 P G A ATGACGTGGCAGACGACAGAGTGCCTGCAY
22185 P A A CGCGCCGAGGAACAGAGTGCCTGCAY
22185 T G A TCTCTGCAGGCACTCTGTCGCCCCAGGTTCCCACAGGCCTCTG
22185 T A A TCTCTGCAGGCACTCTGTTGCCCCAGGTTCCCACAGGCCTCTG
22185 IS [GA] GTAAATTCCAGGCAGAGGAGATGTGGGGCAGTGGTGCMGAGGCCTGTGGGAACCTGGGGC[GA]ACAGAGTGCCTGCAGAGAGCGCGGACACACAGGGACATGACAGGGGAAGCTGGAGGGTGA
22185 IS [GA] G
22193 I A GCCAGAAAGTAACACAGAGCTCATGCTTGGAGAGAC
22193 P T A CGCGCCGAGGTAGAGTCTTGGCCATGGY
22193 P G A ATGACGTGGCAGACGAGAGTCTTGGCCATGY
22193 T T A AAAGCCATGGCCAAGACTCTATCTCTCCAAGCATGAGCTCTGTGTTACTTTCTGGCTC
22193 T G A AAAGCCATGGCCAAGACTCTCTCTCTCCAAGCATGAGCTCTGTGTTACTTTCTGGCTC
22193 IS [TG] AGGGCCGCCTGGAGGCAGTGGCTGAGCCAGAAAGTAACACAGAGCTCATGCTTGGAGAGA[TG]AGAGTCTTGGCCATGGCTTTCCTGCAAGACCACTGACGAGCAGTCCCATGGTGATAAAGG PSCD4
22202 I A ACACACACATGCTGAGGCCGCCA
22202 P C A ATGACGTGGCAGACCGACTCCACTCACCY
22202 P T A CGCGCCGAGGTGGCTCCACTCACCY
22202 T C A ACACGGTGAGTGGAGCCGGGCCGCCTCAGCATGTGTGTGTGT
22202 T T A ACACGGTGAGTGGAGCCAGCCGGCCTCAGCATGTGTGTGTGT
22202 IS [CT] GCTGAGGTACCAGACCTGGTCCCAAGGCCTCAGTGACACACACATGCTGAGGCCGCCC[CT]GGCTCCACTCACCGTGTCGGCCCAGTAGGGGTGGTTGGCCTGCTGCCGCAGAGAGCCCTT
22218 I A CAGAAGCGGGTGAGGAACGCGGGT
22218 P G A ATGACGTGGCAGACGCCAGGAGGACGGY
22218 P A A CGCGCCGAGGACCAGGAGGACGGTY
22218 T G A GCGCACCGTCCTCCTGGCCCCGCGTTCCTCACCGCCTTCTGGG
22218 T A A GCGCACCGTCCTCCTGGTCCCGCGTTCCTCACCGCCTTCTGGG
22218 IS [GA] AGACGCGCGTGTGTGAGCGCGCCGGACCAAGCGCGCCCAGAAGCGGGTCAGGAAACGCGGG[GA]CCAGGAGGACGGTGCGCGGGGAACCCCAAGGCGGCAGGGTTTCTGCGTCCCGGGATGGCCCT
22221 I A CTTGGTGGGGTCAGGGGCTGTGAACT
22221 P G A ATGACGTGGCAGACGTGCAGAGCCTTAGATGY
22221 P A A CGCGCCGAGGATGCAGAGCCTTAGATGAY
22221 T G A CAGCTCATCTAAGGCTCTGCACGTTCACAGCCCTGACCCCACCAAGGG
22221 T A A CAGCTCATCTAAGGCTCTGCATGTTCACAGCCCCTGACCCCACCAAGGG
22221 IS [GA] CGAATCTCCTCATCTGTAAGCCGGGATAACTCCTCCCTTGGTGGGGTCAGGGGCTGTGAAC[GA]TGCAGAGCCTTAGATCAGCTGAGGGCACAGTCAAGAGTCCACGGTGTGTTACCTACTGCT
22222 I S GGAGTCCATTATCGACTCACTAATGATTGTTTAAAGGGAC
22222 P T S CGCGCCGAGGACTGTCAGCAAATTGGTACY
22222 P A S ATGACGTGGCAGACTCTGTCAGCAAATTGGTACY
22222 T T S TAAAGTACCAATTTGCTGACAGTTCCCTTTAAACAATCATTAGTGAGTCGATAATGGACTCCCT
22222 T A S TAAAGTACCAATTTGCTGACAGATCCCTTTAAACAATCATTAGTGAGTCGATAATGGACTCCCT
22222 IS [TA] CTTGACCTTTTGGAGGTGCTCTGGGGCCAGCCAGTCTGTAAAGTACCAATTTGCTGACAG[TA]TCCCTTTAAACAATCATTAGTGAGTCGATAATGGACTCCCTAATTCTTGGAGAAGATGAG
22243 I A TGACCTGCCCCCCACCTTCTGGAAGA
22243 P C A ATGACGTGGCAGACCTGGGAGGTTGGAAGAY
22243 P T A CGCGCCGAGGTTGGGAGGTTGGAAGAGY
22243 T C A TCCCCTCTTCCAACCTCCCAGCTTCCAGAAGGTGGGGGGCAGGTCAGC
22243 T T A TCCCCTCTTCCAACCTCCAACTTCCAGAAGGTGGGGGGCAGGTCAGC
22243 IS [CT] TTGGTGTCGCAGACATCGCAGTCCTCTGAGGGGCTGACCYGCCCCCCACCTTCTGGAAG[CT]TGGGAGGTTGGAAGAGGGGACGCATGCCATGGACCCAGCACACAGCTGGGAACTCGAGGC
22268 I A ACCTGGTGTCTGCCCAGCTTAAGCCCA
22268 P T A CGCGCCGAGGTCTCAATCCCTCCTGTGY
22268 P C A ATGACGTGGCAGACCCTCCATCCCACAGCY
22268 T T A CACAGCTGTGGGATGGAGAGGGCTTAAGCTGGGCAGACACAGGTTA
22268 T C A CACAGCTGTGGGATGGAGGGGCTTAAGCTGGGCAGACACAGGTTA
22268 IS [TC] GAGCTGCTGAACCAGATATGGAACTGCTTTGCTAACCTGGTGTCTGCCCAGCTTAAGCCCC[TC]CTCCATCCCACAGCTGTGAAAGCAAATCATGCTCTCTTCCCAAGTGCTAACATTCCTGTGA
22276 I S CGCAGAGCACAGGAGGCATTGAGACCCT
22276 P G S CGCGCCGAGGCGTTCTGTCTGGTGTAGY
22276 P C S ATGACGTGGCAGACGGTTCTGTCTGGTGTAGGY
22276 T G S AGCACCTACACCAGACAGAACGGGGTCTCAATCCCTCCTGTGCTCTGCGTT
22276 T C S AGCACCTACACCAGACAGAACCGGGTCTCAATCCCTCCTGTGCTCTGCGTT
22276 IS [GC] GCCAGCGCTGGGGATGTGCGGGAGGAGCGGGGAACAGCATTCAGCACCTACACCAGACAGAACG[GC]GGGTCTCAATCCCTCCTGTGCTCTGCGTTCATCTGGACCAGTCTCAGGCCCCAGCCATCT
22277 I A CATTCAGCACCTACACCAGACAGAACGGGGC
22277 P T A CGCGCCGAGGTCTCAATCCCTCCTGTGY
22277 P G A ATGACGTGGCAGACGCTCAATCCCTCCTGTY
22277 T T A AGAGCACAGGAGGGATTGAGACCCCGTTCTGTCTGGTGTAGGTGCTGAATGCT
22277 T G A AGAGCACAGGAGGGATTGAGCCCCGTTCTGTCTGGTGTAGGTGCTGAATGCT
22277 IS [TG] GGGCTGGGGATGTGCGGGAGGAGCGGGGACAGCATTCAGCACCTACACCAGACAGAACGGGGG[TG]CTCAATCCCTCCTGTGCTCTGCGTTCATCTGGACCAGTCTCAGGCCCCAGCCATCTCCAG
22309 I A GCTCTCACAGCTGCTGCCAGCTCCATAAGA
22309 P T A CGCGCCGAGGTGCTCCTGCACTAATGAY
22309 P C A ATGACGTGGCAGACCGCTCCTGCACTAATGY
22309 T T A GGGCTCATTAGTGCAGGAGCACTTATGGAGCTGGCAGCAGCTGTGAGAGCCT
22309 T C A GGGCTCATTAGTGCAGGAGCGCTTATGGAGCTGGCAGCAGCTGTGAGAGCCT
22309 IS [TC] CACTTCTAAAGGCTGGAGAGCTCACAGGAAGGCTCTCACAGCTGCTGCCAGCTCCATAAG[TC]GCTCCTGCACTAATGAGGCCACAGCCTCTCTGCGGGGGGCCAGCCGAGCGGGACCTGATTAC
22319 I S GTTGGGTAGGCAAGAGCTCTCAAACGGCA
22319 P G S ATGACGTGGCAGACCGCCTCCAAGCATGY
22319 P A S CGCGCCGAGGTGCCTCCAAGCATGGY
22319 T G S CTTCCCATGCTTGGAGGCAGCCGTTTCAGAGGCTCTTCCCTACCCAACAG
22319 T A S CTTCCCATGCTTGGAGGCAGCCGTTTCAGAGGCTCTTCCCTACCCAACAG
22319 IS [GA] AAGGGCCTCTGTGGCCCTTTGTCCACAAAAGAGGAGCGGCCTCTTCCCATGCTTGGAGGC[GA]GCCGTTTCAGAGGCTCTTCCCTACCCAACAGTCTGATGAGTGGAATCCTCAAGAGGAGCT

FIGURE 129F



SUBSTITUTE SHEET (RULE 26)

FIGURE 129F

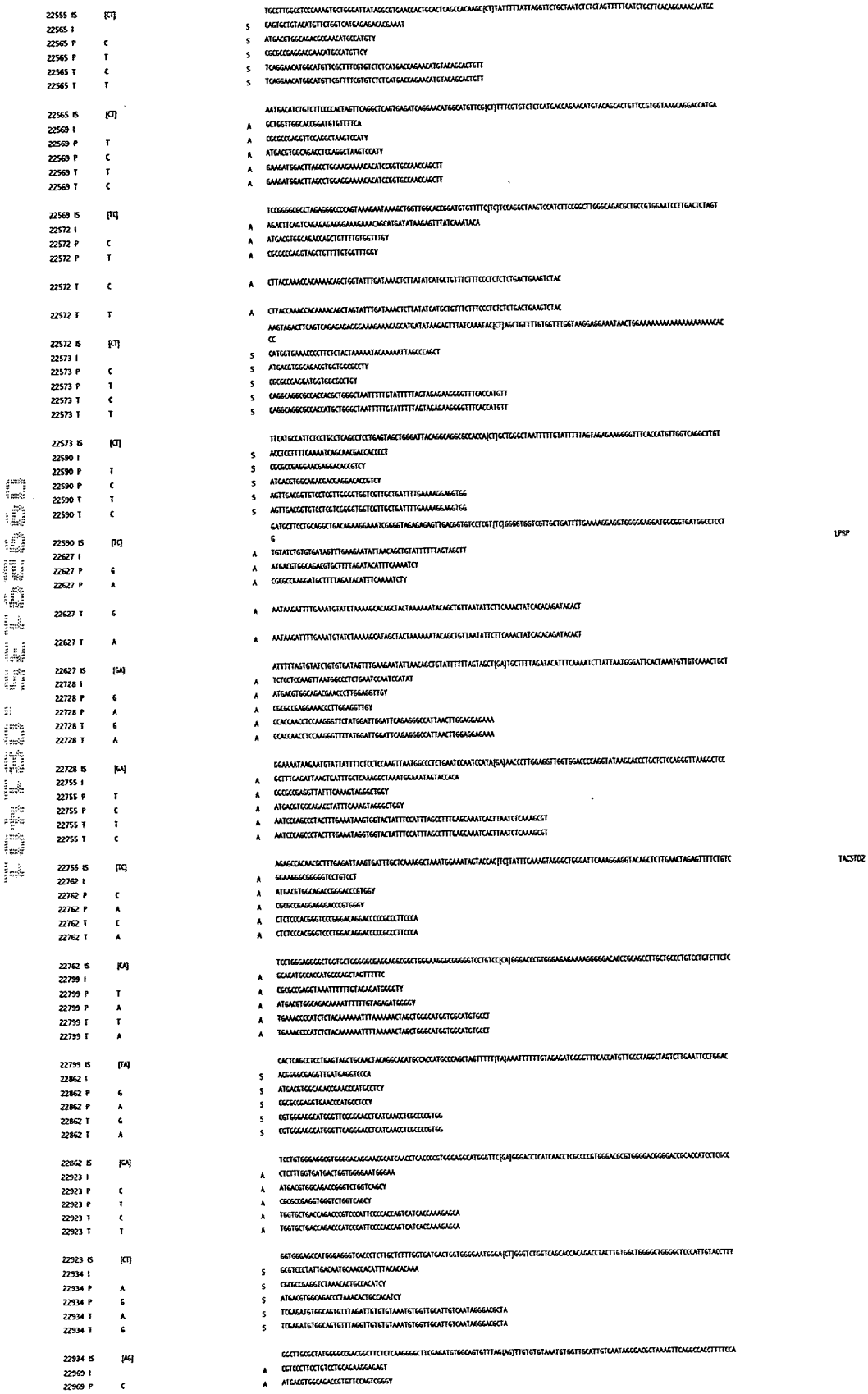


FIGURE 129F

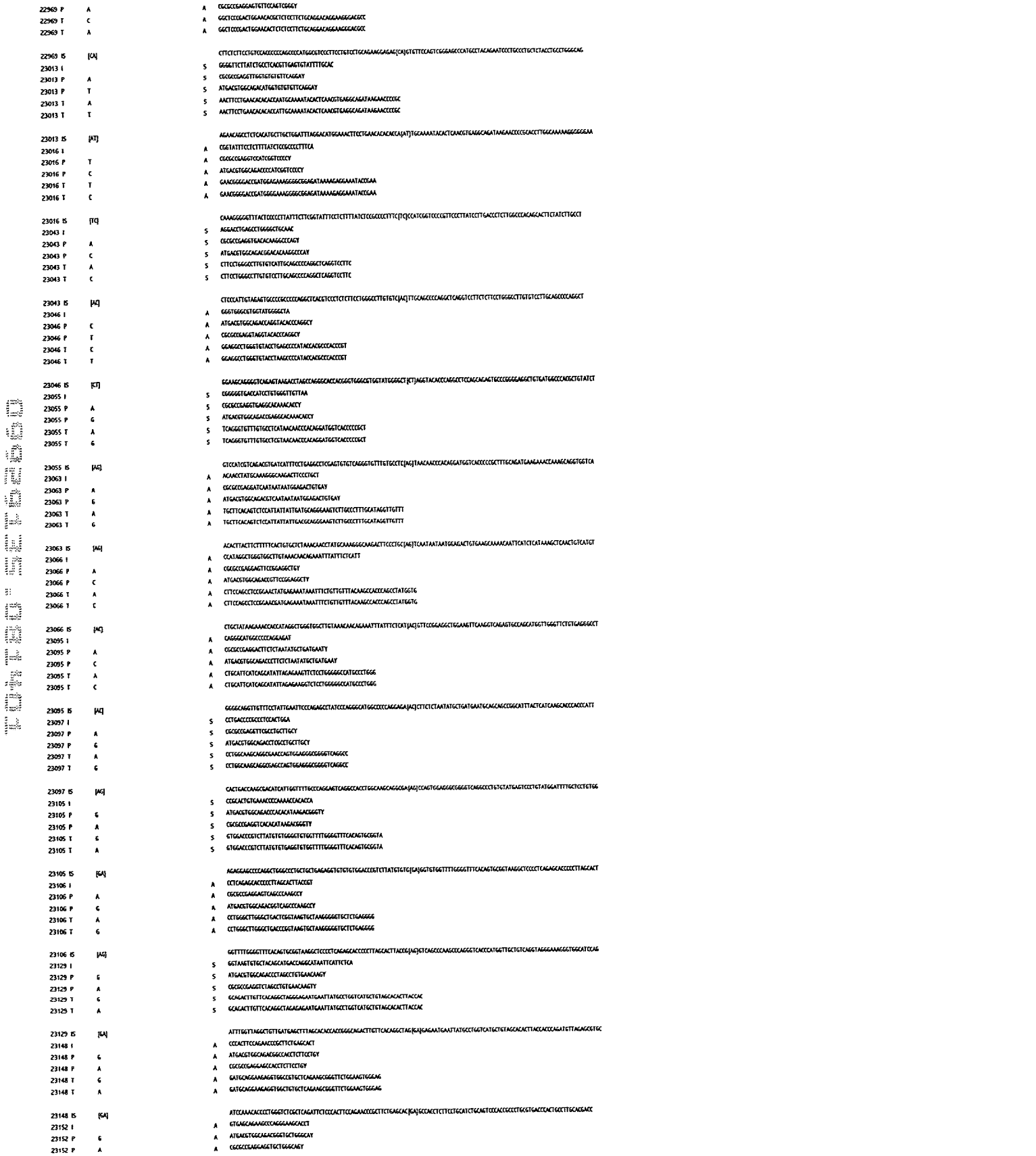
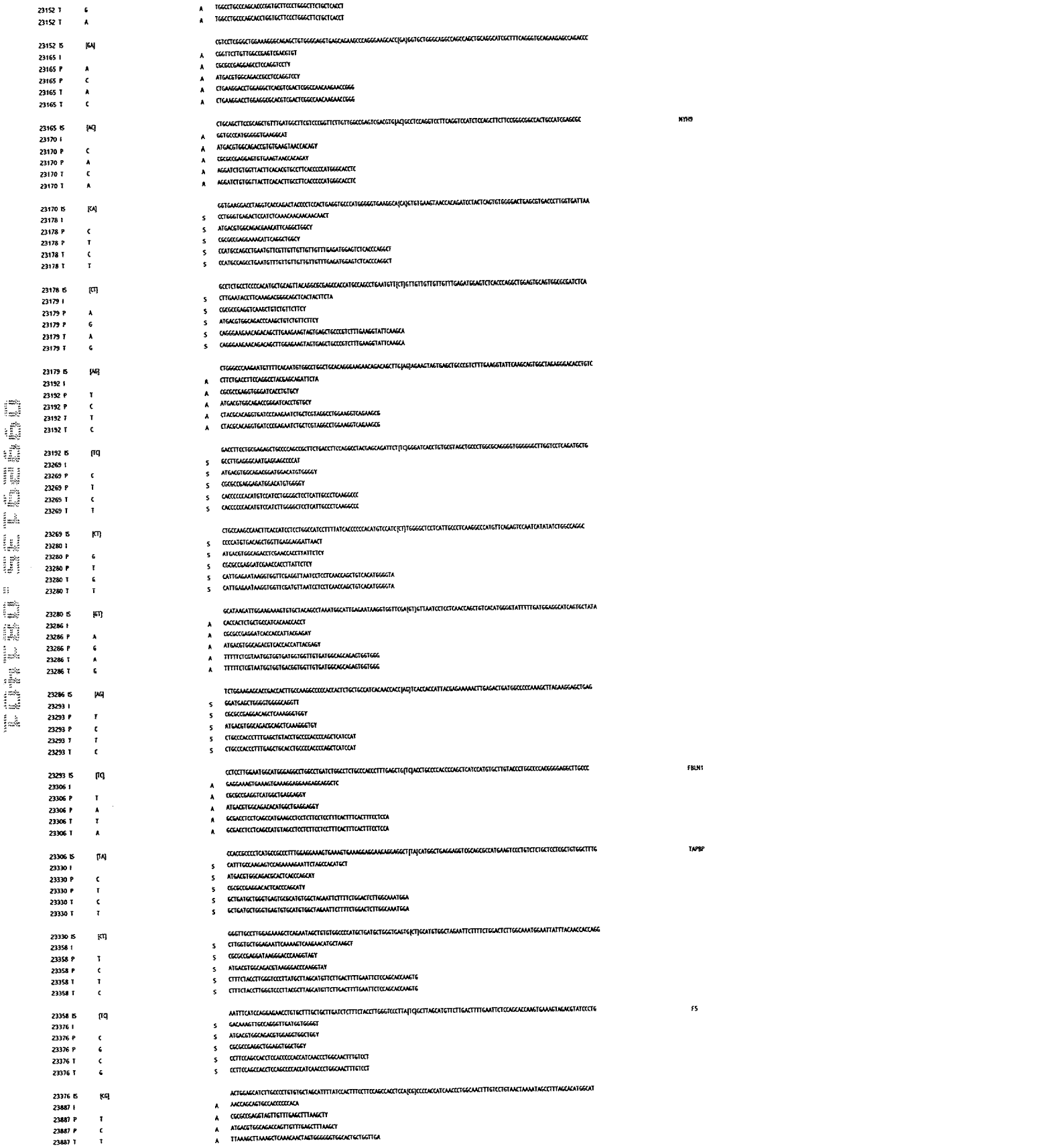


FIGURE 129F



SUBSTITUTE SHEET (RULE 26)

FIGURE 129F

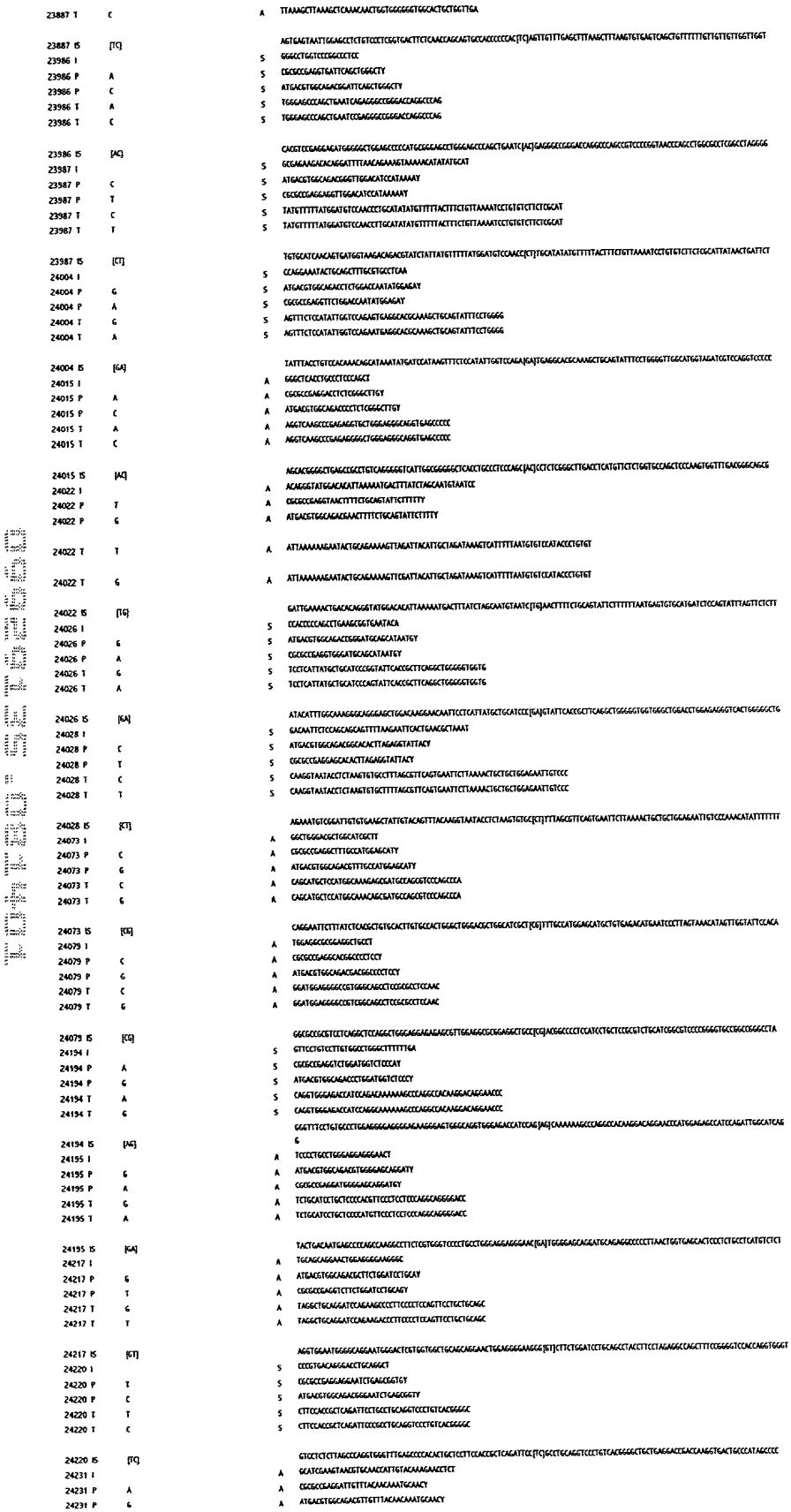

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23986 I S GGGCCTGGTCCCGGCCCTCC
23986 P A S CGCGCCGAGGTGATTCAGCTGGGCTY
23986 P C S ATGACGTGGCAGACGGATTCAGCTGGGCTY
23986 T A S TGGCAGCCCAGCTGAATCAGAGGGCCGGGACCAGGCCCAG
23986 T C S TGGGAGCCCAGCTGAATCCGAGGGCCGGGACCAGGCCCAG
23986 IS [AC] CACGTCCGAGGAGATGGGGGCTGGAGCCCCCATGCGGGAGCCTGGGAGCCCAGCTGAATC[AC]GAGGGCCCGGACCAGGCCCAGCCGTCCCCGGTAACCCAGCCTGGCGCCTCGGCCTAGGGG
23987 I S GCGAGAAGACACAGGATTTTAACAGAAAGTAAAAACATATATGCAT
23987 P C S ATGACGTGGCAGACGGGTTGGACATCCATAAAAY
23987 P T S CGCGCCCAGGAGGTTGGACATCCATAAAAY
23987 T C S TATGTTTTTATGGATGTCCAACCTGCATATATGTTTTTACTTTCTGTTAAAATCCTGTGTCTTCTCGCAT
23987 T T S TATGTTTTTATGGATGTCCAACCTTGCATATATGTTTTTACTTTCTGTTAAAATCCTGTGTCTTCTCGCAT
23987 IS [CT] TGTGCATCAACAGTGATGGTAAGACAGACGTATCTATTATGTTTTTATGGATGTCCAACC[CT]TGCATATATGTTTTACTTTCTGTTAAAATCCTGTGTCTTCTCGCATTATAACTGATTCT
24004 I S CCAGGAAATACTGCAGCTTTGCGTGCCTCAA
24004 P G S ATGACGTGGCAGACCTCTGGACCAATATGGAGAY
24004 P A S CGCGCCGAGGTTCTGGACCAATATGGAGAY
24004 T G S AGTTCTCCATATTGGTCCAGAGTGAGGCACGCAAAGCTGCAGTATTTCCTGGGG
24004 T A S AGTTTCTCCATATTGGTCCAGAATGAGGCACGCAAAGCTGCAGTATTTCCTGGGG
24004 IS [GA] TATTTACCTGTCCACAAACAGCATAAATATGATCCATAAGTTTCTCCATATTGGTCCAGA[GA]TGAGGCACGCAAAGCTGCAGTATTTCCTGGGGTTGGCATGGTAGATGTCCAGGTCCCCC
24015 I A GGGCTCACCTGCCCTCCCAGCT
24015 P A A CGCGCCCAGGACCTCTCGGGCTTGY
24015 P C A ATGACGTGGCAGACCCCTCTCGGGCTTGY
24015 T A A AGGTCAAGCCCGAGAGGGTGCTGGGAGGGCAGGTGAGCCCCC
24015 T C A AGGTCAAGCCCGAGAGGGGCTGGGAGGGCAGGTGAGCCCCC
24015 IS [AC] AGCACGGGGCTGAGCCGCCTGTCAGGGGGTCATTGGCGGGGGCTCACCTGCCCTCCCAGC[AC]CCTCTCGGGCTTGACCTCATGTTCTCTGGTGCCAGCTCCCAAGTGGTTTGACGGGCAGCG
24022 I A ACAGGGTATGGACACATTAAAAATGACTTTATCTAGCAATGTAATCC
24022 P T A CGCGCCGAGGTAACTTTTCTGCAGTATTCTTTTTY
24022 P G A ATGACGTGGCAGACGAACTTTTCTGCAGTATTCTTTTY
24022 T T A ATTAAAAAAGAATACTGCAGAAAAGTTAGATTACATTGCTAGATAAAGTCATTTTTAATGTGTCCATACCCTGTGT
24022 T G A ATTAAAAAAGAATACTGCAGAAAAGTTCGATTACATTGCTAGATAAAGTCATTTTTAATGTGTCCATACCCTGTGT
24022 IS [TG] GATTGAAAACTGACACAGGGTATGGACACATTAAAAATGACTTTATCTAGCAATGTAATC[TG]AACTTTTCTGCAGTATTCTTTTTTAATGAGTGTGCATGATCTCCAGTATTTAGTTCTCTT
24026 I S CCACCCCCAGCCTGAAGCGGTGAATACA
24026 P G S ATGACGTGGCAGACCGGGATGCAGCATAATGY
24026 P A S CGCGCCGAGGTGGGATGCAGCATAATGY
24026 T G S TCCTCATTATGCTGCATCCCGGTATTCACCGCTTCAGGCTGGGGGTGGTG
24026 T A S TCCTCATTATGCTGCATCCCAGTATTCACCGCTTCAGGCTGGGGGTGGTG
24026 IS [GA] ATACATTTGGCAAAGGGCAGGGAGCTGGACAAGGAACAATTCCTCATTATGCTGCATCCC[GA]GTATTCACCGCTTCAGGCTGGGGGTGGTGGGCTGGACCTGGAGAGGGTCACTGGGGGCTG
24028 I S GACAATTCTCCAGCAGCAGTTTTAAGAATTCACTGAACGCTAAAT
24028 P C S ATGACGTGGCAGACGGCACACTTAGAGGTATTACY
24028 P T S CGCGCCGAGGAGCACACTTAGAGGTATTACY
24028 T C S CAAGGTAATACCTCTAAGTGTGCTTTAGCGTTCAGTGAATTCTTAAAACTGCTGCTGGAGAATTGTCCC
24028 T T S CAAGGTAATACCTCTAAGTGTGCTTTAGCGTTCAGTGAATTCTTAAAACTGCTGCTGGAGAATTGTCCC
24028 IS [CT] AGAAATGTCGGATTGTGTGAAGCTATTGTACAGTTTACAAGGTAATACCTCTAAGTGTGC[CT]TTTAGCGTTCAGTGAATTCTTAAAACTGCTGCTGGAGAATTGTCCCAAACATATTTTTT
24073 I A GGCTGGGACGCTGGCATCGCTT
24073 P C A CGCGCCCAGGCTTTGCCATGGAGCATY
24073 P G A ATGACGTGGCAGACGTTTGCCATGGAGCATY
24073 T C A CAGCATGCTCCATGGCAAACAGCGATGCCAGCGTCCCAGCCCA
24073 T G A CAGCATGCTCCATGGCAAACAGCGATGCCAGCGTCCCAGCCCA
24073 IS [CG] CAGGAATTCTTTATCTCACGCTGTGCACTTGTGCCACTGGGCTGGGACGCTGGCATCGCT[CG]TTTGCCATGGAGCATGCTGTGAGACATGAATCCCTTAGTAAACATAGTTGGTATTCCACA
24079 I A TGGAGGCGCCGAGGCTGCCT
24079 P C A CGCGCCGAGGCACGGCCCCTCCY
24079 P G A ATGACGTGGCAGACGACGGCCCCTCCY
24079 T C A GGATGGAGGGGCCGTGGGCAGCCTCCGCGCCTCCAAC
24079 T G A GGATGGAGGGGCCGTCGGCAGCCTCCGCGCCTCCAAC
24079 IS [CG] GGCGCCGCGTCCTCAGGCTCCAGGCTGGGAGGAGAAGAGCGTTGGAGGCGCGGAGGCTGCC[CG]ACGGCCCCTCCATCCTGCTCCCGCGTCTGCATCGGCGTCCCCGGGGTGCCGGCCGGCCTA
24194 I S GTTCCTGTCCTTGTGGCCTGGGCTTTTTTGA
24194 P A S CGCGCCGAGGTCTGGATGGTCTCCCAY
24194 P G S ATGACGTGGCAGACCCTGGATGGTCTCCCY
24194 T A S CAGGTGGGAGACCATCCAGACAAAAAAGCCCAGGCCACAAGGACAGGAACCC
24194 T G S CAGGTGGGAGACCATCCAGGCAAAAAAGCCCAGGCCACAAGGACAGGAACCC
24194 IS [AG] GGGTTTCCTGTGCCCTGGAGGGCAGGGCAGAGGGAGTGGGCAGGTGGGCAGACCATCCAG[AG]CAAAAAAGCCCAGGCCACAAGGACAGGAACCCATGGAGAGCCATCCAGATTGGCATCAG
G
24195 I A TCCCCTGCCTGGGAGGAGGGAACT
24195 P G A ATGACGTGGCAGACGTGGGGAGCAGGATY
24195 P A A CGCGCCGAGGATGGGGAGCAGGATGY
24195 T G A TCTGCATCCTGCTCCCCACGTTCCCTCCTCCCAGGCAGGGGACC
24195 T A A TCTGCATCCTGCTCCCCATGTTCCCTCCTCCCAGGCAGGGGACC
24195 IS [GA] TACTGACAATGAGCCCCAGCCAAGGCCTTCTCGTGGGTCCCCTGCCTGGCAGGAGGAGGAAC[GA]TGGGGAGCAGGATGCAGAGGCCCCTTAACTGGTGAGCACTCCCTCTGCCTCATGTCTCT
24217 I A TGCAGCAGGAACTGGAGGGGAAGGGC
24217 P G A ATGACGTGGCAGACGCTTCTGGATCCTGCAY
24217 P T A CGCGCCGAGGTCTTCTGGATCCTGCAGY
24217 T G A TAGGCTGCAGGATCCAGAAGCCCTTCCCCTCCAGTTCCTGCTGCAGC
24217 T T A TAGGCTGCAGGATCCAGAAGACCCTTCCCCTCCAGTTCCTGCTGCAGC
24217 IS [GT] AGGTGGAATGGGGCAGGAATGGGACTCGTGGTGGCTGCAGCAGGAACTGGAGGGGAAGGG[GT]CTTCTGGATCCTGCAGCCTACCTTCCTAGAGGCCAGCTTTCCGGGGTCCACCAGGTGGGT
24220 I S CCCGTGACAGGGAACCTGCAGGCT
24220 P T S CGCGCCGAGCAGGAATCTGAGCGGTGY
24220 P C S ATGACGTGGCAGACGGGAATCTGAGCGGTY
24220 T T S CTTCCACCGCTCAGATTCCTGCCTGCAGGTCCCTGTCACGGGGC
24220 T C S CTTCCACCGCTCAGATTCCCGCCTGCAGGTCCCTGTCACGGGGC
24220 IS [TC] GTCCTCTCTTAGCCCAGGTGGGTTTGAGCCCCACACTGCTCCTTCCACCGCTCAGATTCC[TC]GCCTGCAGGTCCCTGTCACGGGGCTGCTGAGGACCGACCAAGGTGACTGCCCATAGCCCC
24231 I A GCATCGAAGTAACGTGCAACCATTGTACAAAGAACCTCT
24231 P A A CGCGCCGAGGATTGTTTACAACAAATGCAACY
24231 P G A ATGACGTGGCAGACGTTGTTTACAACAAATGCAACY

FIGURE 129F

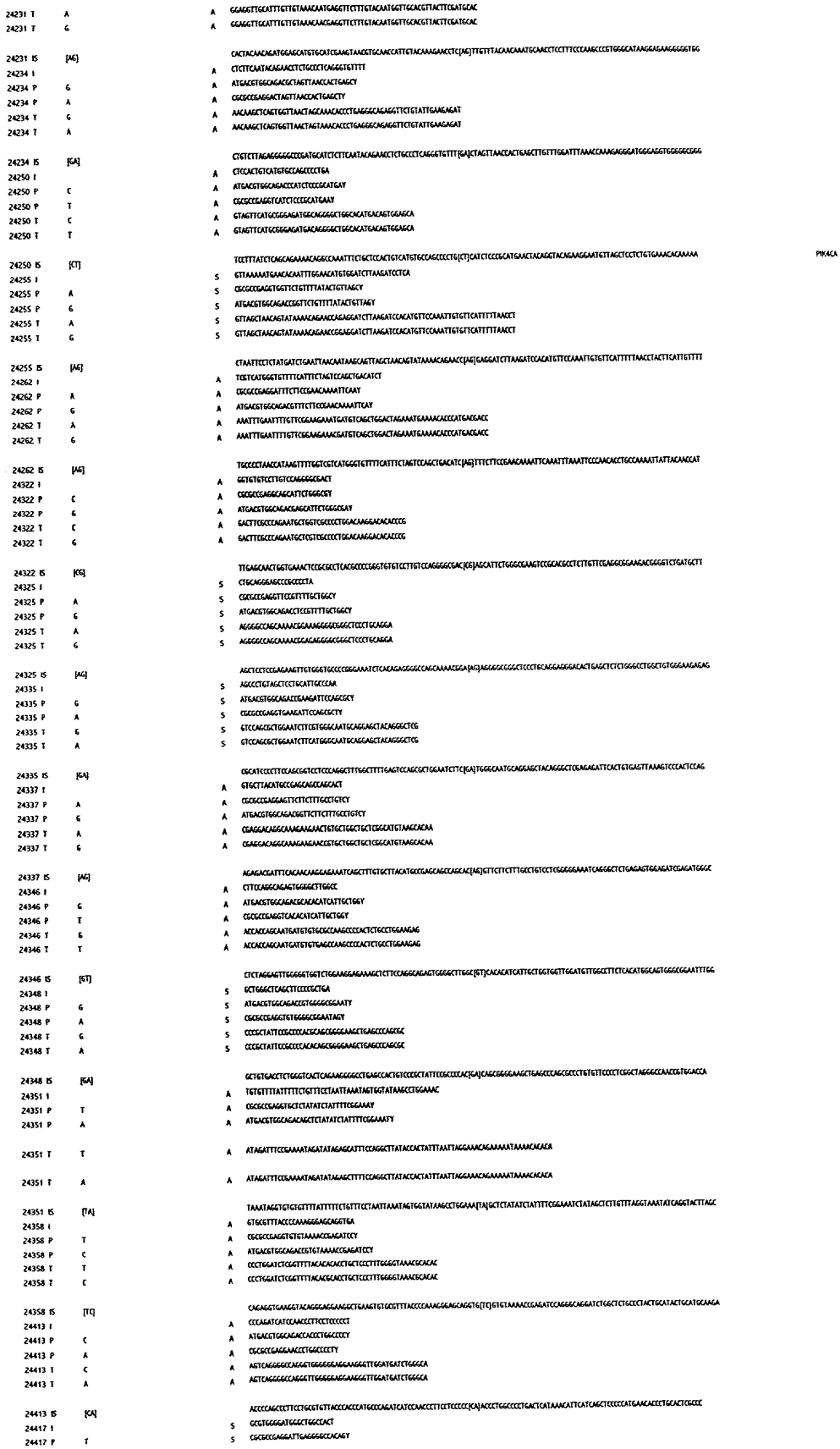


FIGURE 129F

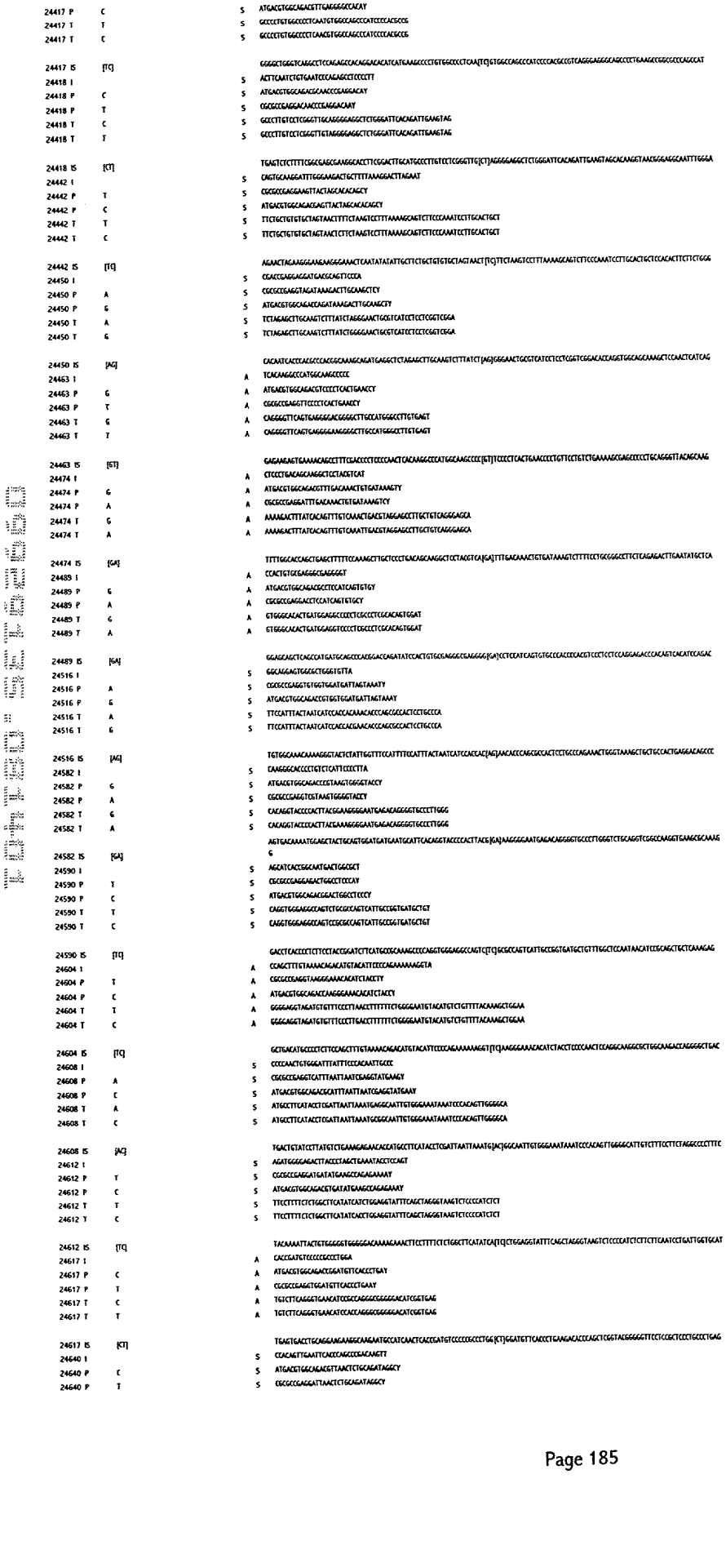

24417 P C S ATGACGTGGCAGACGTTGAGGGGCCACAY
24417 T T S GCCCCTGTGGCCCCTCAATGTGGGCAGCCCATCCCCACGCCG
24417 T C S GCCCCTGTGGCCCCTCAACGTGGCCAGCCCATCCCCACGCCG
24417 IS [TC] GGGGCTGGGTCAGGCCTCCAGAGCCACAGGACACATCATGAAGCCCCTGTGGCCCCTCAA[TC]GTGGCCAGCCCATCCCCACGCCGTCAGGGAGGGCAGCCCCTGAAGCCGGCCCCAGCCAT
24418 I S ACTTCAATCTGTGAATCCCAGAGCCTCCCCTT
24418 P C S ATGACGTGGCAGACGCAACCCGAGGACAY
24418 P T S CGCGCCCGAGGACAACCCGAGGACAY
24418 T C S GCCCTGTCCTCGGGTTGCAGGGGAGGCTCTGGGATTCACAGATTGAAGTAG
24418 T T S GCCCTTGTCCTCGGGTTGTAGGGGAGGCTCTGGGATTCACAGATTGAAGTAG
24418 IS [CT] TGAGTCTCTTTTCGGCGAGCGAAGGCACCTCGGACTTGCATGCCCTTGTCCTCGGGTTG[CT]AGGGGAGGCTCTGGGATTCACAGATTGAAGTAGCACAAGGTAACGGAGGCAATTTGGGA
24442 I S CAGTGCAAGGATTTGGGAAGACTGCTTTTAAAGGACTTAGAAT
24442 P T S CGCGCCGAGGAAGTTACTAGCACACAGCY
24442 P C S ATGACGTGGCAGACGAGTTACTAGCACACAGCY
24442 T T S TTCTGCTGTGTGCTAGTAACTTTCTAAGTCCTTTAAAAGCAGTCTTCCCAAATCCTTGCACTGCT
24442 T C S TTCTGCTGTGTGCTAGTAACTCTTCTAAGTCCTTTAAAAGCAGTCTTCCCAAATCCTTGCACTGCT
24442 IS [TC] AGAACTAGAAGGGAAGAAGGGAAACTCAATATATATTGCTTCTGCTGTGTGCTAGTAACT[TC]TTCTAAGTCCTTTAAAAGCAGTCTTCCCAAATCCTTGCACTGCTCCACACTTCTTCTGGG
24450 I S CGACCGAGGAGGATGACGCAGTTCCCA
24450 P A S CGCGCCGAGGTAGATAAAGACTTGCAAGCTCY
24450 P G S ATGACGTGGCAGACAGATAAAGACTTGCAAGCTY
24450 T A S TCTAGAGCTTGCAAGTCTTTATCTAGGGAACTGCGTCATCCTCCTCGGTCGGA
24450 T G S TCTAGAGCTTGCAAGTCTTTATCTGGGGAACTGCGTCATCCTCCTCGGTCGGA
24450 IS [AG] CACAATCACCCACGCCCACGGCAAAGCAGATGAGGCTCTAGAGCTTGCAAGTCTTTATCT[AG]GGGAACTGCGTCATCCTCCTCGGTCGGACACCAGGTGGCAGCAAAGCTCCAACTGATCAG
24463 I A TCACAAGGCCCATGGCAAGCCCCC
24463 P G A ATGACGTGGCAGACGTTTGACAAACTGTGATAAAGTY
24463 P T A CGCGCCGAGGTAGATAAAGACTTGCAAGCTY
24463 T G A CAGGGGTTCAGTGAGGGGACGGGGCTTGCCATGGGCCTTGTGAGT
24463 T T A CAGGGGTTCAGTGAGGGGAAGGGGCTTGCCATGGGCCTTGTGAGT
24463 IS [GT] GAGAAGAGTGAAAACAGCCTTTCCACCCCTCCCCAACTCACAAGCCCATGGCAAGCCCC[GT]TCCCCTCACTGAACCCCTGTTCCTGTCTGAAAAGCGAGCCCCTGCAGGGTTACAGCAAG
24474 I A CTCCCTGACAGCAAGGCTCCTACGTCAT
24474 P G A ATGACGTGGCAGACGTTTGACAAACTGTGATAAAGTY
24474 P A A CGCGCCGAGGATTTGACAAACTGTGATAAAGTCY
24474 T G A AAAAGACTTTATCACAGTTTGTCAAACTGACGTAGGAGCCTTGCTGTCAGGGAGCA
24474 T A A AAAAGACTTTATCACAGTTTGTCAAATTGACGTAGGAGCCTTGCTGTCAGGGAGCA
24474 IS [GA] TTTTGGCACCAGCTGAGCTTTTTCCAAAGCTTGCTCCCTGACAGCAAGGCTCCTACGTCA[GA]TTTGACAAACTGTGATAAAGTCTTTTCCTGCGGGCCTTCTCAGAGAGACTTGAATATGCTCA
24489 I A CCACTGTGCGAGGGCGAGGGGT
24489 P G A ATGACGTGGCAGACGCCTCCATCAGTGTGY
24489 P A A CGCGCCGAGGAACCTCCATCAGTGTGCY
24489 T G A GTGGGCACACTGATGGAGGCCCCCTCGCCCTCGCACAGTGGAT
24489 T A A GTGGGCACACTGATGGAGGTCCCCTCGCCCTCGCACAGTGGAT
24489 IS [GA] GGAGCAGCTCACCCATGATGCAGCCCACGGACCAGATATCCACTGTGCGCAGGCCGAGGGG[GA]CCTCCATCAGTGTGCCCACCCCACCGTCCTCCTCCAGGAGACCCACAGTCACATCCAGAC
24516 I S GGCAGGAGTGGCGCTGGGTGTTA
24516 P A S CGCGCCGAGGTGTGGTGGATGATTAGTAAATY
24516 P G S ATGACGTGGCAGACCGTGGTGATGATTAGTAAAY
24516 T A S TTCCATTTACTAATCATCCACCACAAACACCCAGCGCCACTCCTGCCCA
24516 T G S TTCCATTTACTAATCATCCACCACGAACACCCAGCGCCACTCCTGCCCA
24516 IS [AG] TGTGGCAAACAAAAGGGTACTCTATTGGTTTCCATTTTCCATTTACTAATCATCCACCAC[AG]AACACCCAGCGCCACTCCTGCCCAGAAACTGGGTAAAGCTGCTGCCACTGAGGACAGCCC
24582 I S CAAGGGCACCCCTGTCTCATTCCCCTTA
24582 P G S ATGACGTGGCAGACCCGTAAGTGGGGTACCY
24582 P A S CGCGCCGAGGTCGTAAGTGGGGTACCY
24582 T G S CACAGGTACCCCACTTACGGAAGGGGAATGAGACAGGGGTGCCCTTGGG
24582 T A S CACAGGTACCCCACTTACGAAAGGGGAATGAGACAGGGGTGCCCTTGGG
24582 IS [GA] AGTGACAAAATGGAGCTACTGCAGTGGATGATGAATGCATTCACAGGTACCCCACTTACG[GA]AAGGGGAATGAGACAGGGGTGCCCTTGGGTCTGCAGGTCGGCCAAGGTGAAGCGCAAAG
G
24590 I S AGCATCACCGGCAATGACTGGCGCT
24590 P T S CGCGCCGAGGAGACTGGCCTCCCAY
24590 P C S ATGACGTGGCAGACGGACTGGCCTCCCY
24590 T T S CAGGTGGGAGGCCAGTCCGCGCCAGTCATTGCCGGTGATGCTGT
24590 T C S CAGGTGGGAGGCCAGTCCGCGCCAGTCATTGCCGGTGATGCTGT
24590 IS [TC] GACCTCACCCCTCTTCCTACCGGATCTTCATGCCGCAAAGCCCCAGGTGGGAGGCCAGTCGTC[GCGCCAGTCATTGCCGGTGATGCTGTTTGGCTCCAATAACATCCGCAGCTGCTCAAAGAG
24604 I A CCAGCTTTGTAAAACAGACATGTACATTCCCCAGAAAAAAGGTA
24604 P T A CGCGCCGAGGTAAGGGAAACAGATCTACCTY
24604 P C A ATGACGTGGCAGACCAGGGAAACAGATCTACCY
24604 T T A GGGGAGGTAGATGTGTTTCCCTTAACCTTTTTTCTGGGGAATGTACATGTCTGTTTTACAAAGCTGGAA
24604 T C A GGGGAGGTAGATGTGTTTCCCTTGACCTTTTTTCTGGGGAATGTACATGTCTGTTTTACAAAGCTGGAA
24604 IS [TC] GCTGACATGCCCCTCTTCCAGCTTTGTAAAACAGACATGTACATTCCCCAGAAAAAAGGT[TC]AAGGGAAACACATCTACCTCCCCAACTCCAGGCAAGGCGCTGGCAAGACCAGGGGCTGAC
24608 I S CCCCAACTGTGGGATTTATTTCCCACAATTGCCC
24608 P A S CGCGCCGAGGTCATTTAATTAATCGAGGTATGAAGY
24608 P C S ATGACGTGGCAGACGCATTTAATTAATCGAGGTATGAAY
24608 T A S ATGCCTTCATACCTCGATTAATTAAATGAGGCAATTGTGGGAAATAAATCCCACAGTTGGGGCA
24608 T C S ATGCCTTCATACCTCGATTAATTAAATGCGGCAATTGTGGGAAATAAATCCCACAGTTGGGGCA
24608 IS [AC] TGACTGTATCCTTATGTCTGAAAGAGAACACCATGCCTTCATACCTCGATTAATTAAATG[AC]GGCAATTGTGGGAAATAAATCCCACAGTTGGGGCATTGTCTTTCCTTCTAGGCCCTTTC
24612 I S AGATGGGGAGACTTACCCTAGCTGAAATACCTCCAGT
24612 P T S CGCGCCCAGGATGATATGAAGCCAGAGAAAAY
24612 P C S ATGACGTGGCAGACGTGATATGAAGCCAGAGAAAY
24612 T T S TTCCTTTTCTCTGGCTTCATATCATCTGGAGGTATTTCAGCTAGGGTAAGTCTCCCCATCTCT
24612 T C S TTCCTTTTCTCTGGCTTCATATCACCTGGAGGTATTTCAGCTAGGGTAAGTCTCCCCATCTCT
24612 IS [TC] TACAAAATTACTGTGGGGGTGGGGGACAAAAGAAACTTCCTTTTCTCTGGCTTCATATCA[TC]CTGGAGGTATTTCAGCTAGGGTAAGTCTCCCCATCTCTTCTTCAATCCTGATTGGTGCAT
24617 I A CACCGATGTCCCCCGCCCTGGA
24617 P C A ATGACGTGGCAGACCGGATGTTCACCCTGAY
24617 P T A CGCGCCGAGGTGGATGTTCACCCTGAAY
24617 T C A TGTCTTCAGGGTGAACATCCGCCAGGGCGGGGGACATCGGTGAG
24617 T T A TGTCTTCAGGGTGAACATCCACCAGGGCGGGGGACATCGGTGAG
24617 IS [CT] TGAGTGACCTGCAGGAAGAAGGCAAGAATGCCATCAACTCACCGATGTCCCCCGCCCTGG[CT]GGATGTTCACCCTGAAGACACCCAGCTCGGTACGGGGGTTCCCGCTCCCTGCCCTGAG
24640 I S CCACAGTTGAATTCACCCAGCCCCACAAGTT
24640 P C S ATGACGTGGCAGACGTTAACTCTGCAGATAGGCY
24640 P T S CGCGCCGAGGATTAACTCTGCAGATAGGCY

FIGURE 129F

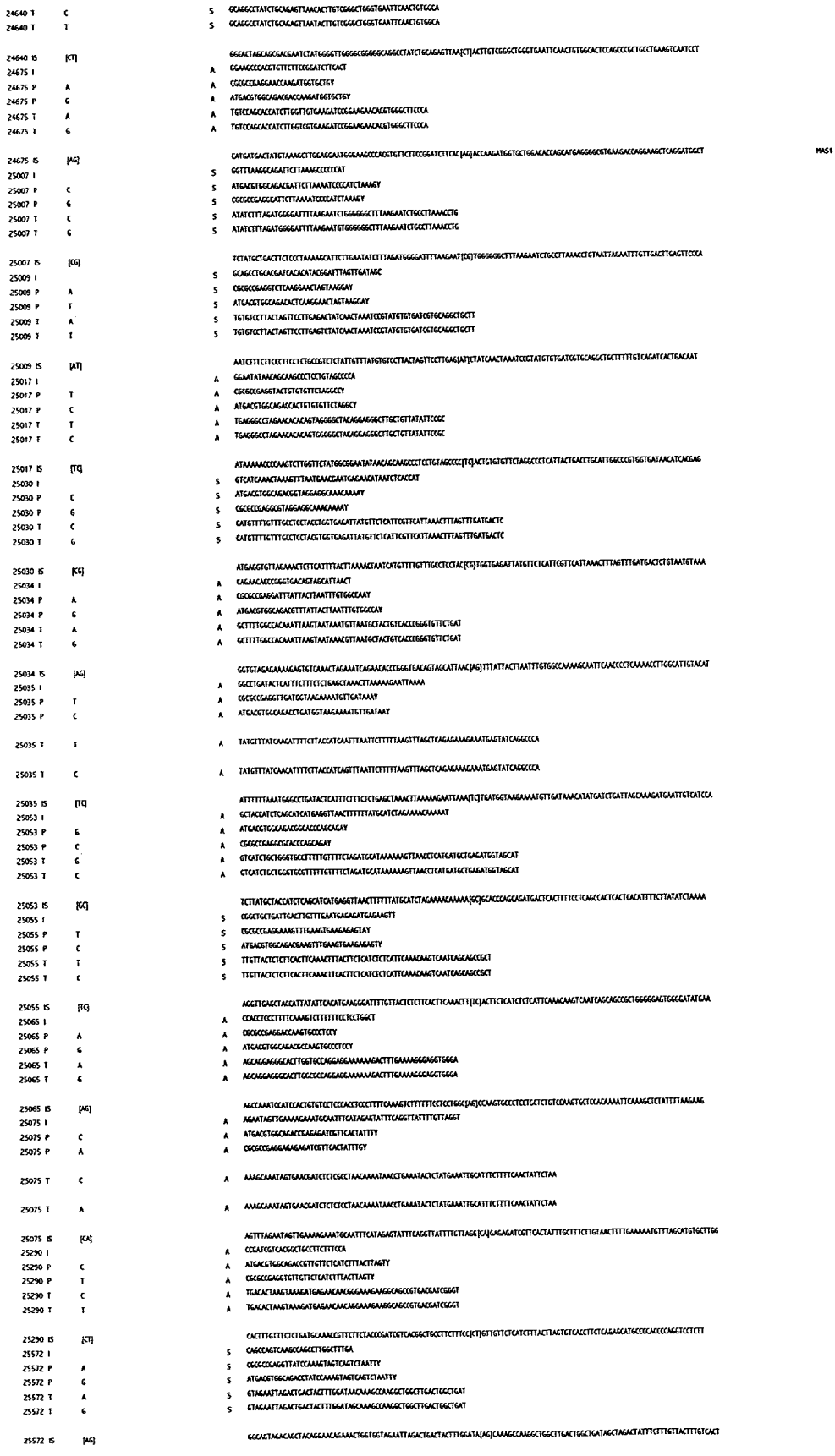


FIGURE 129F

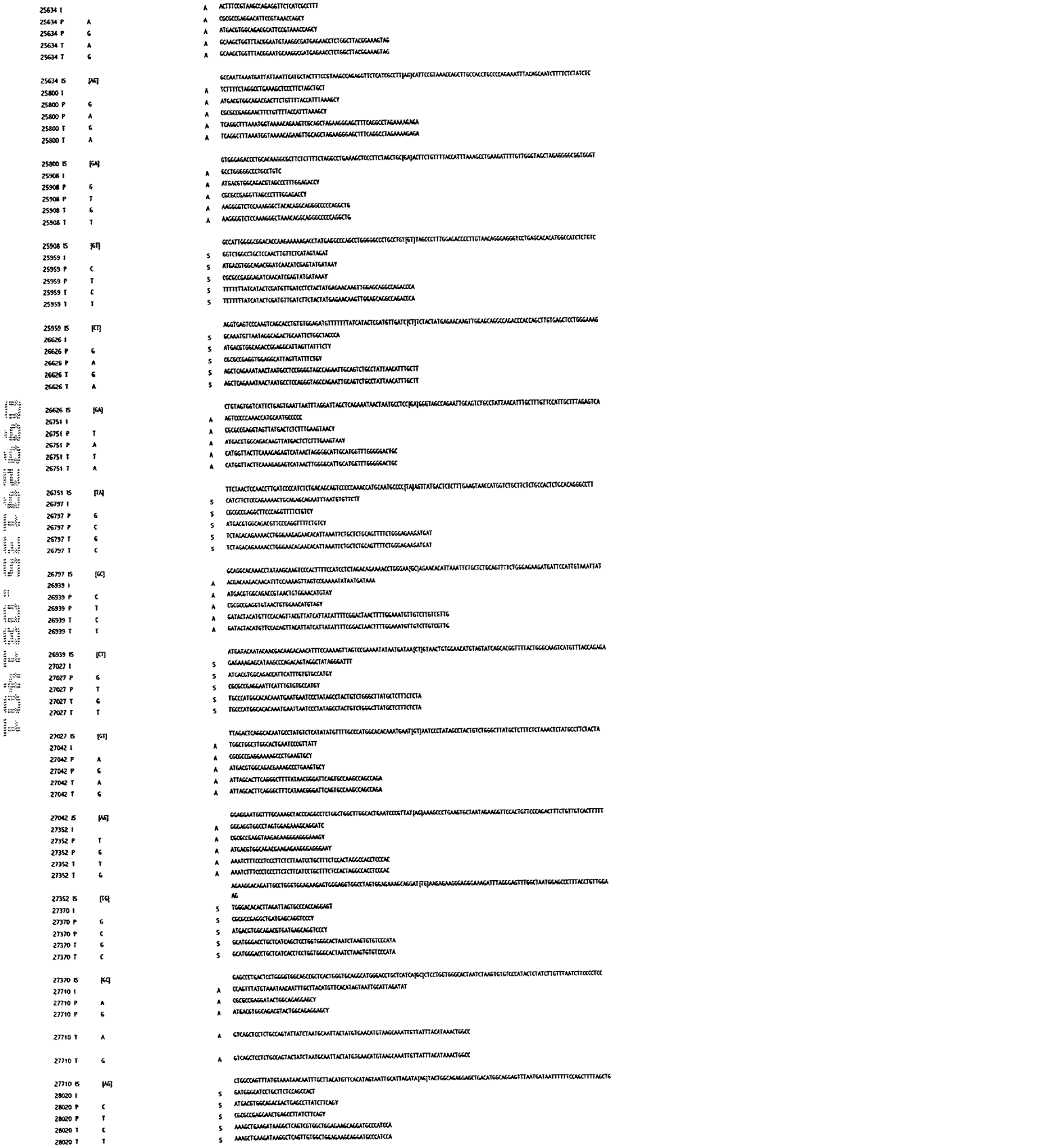


FIGURE 129F

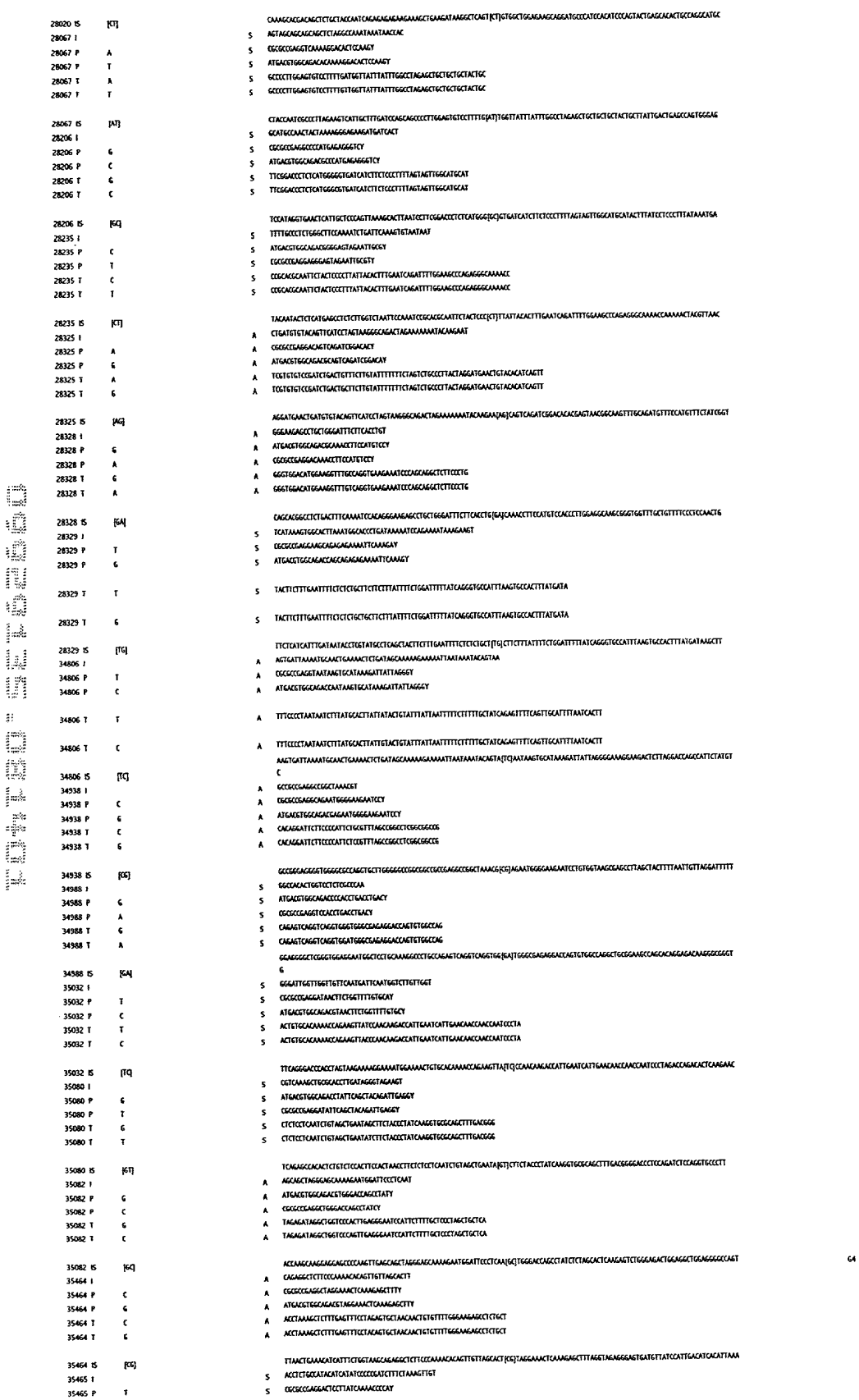


FIGURE 129F

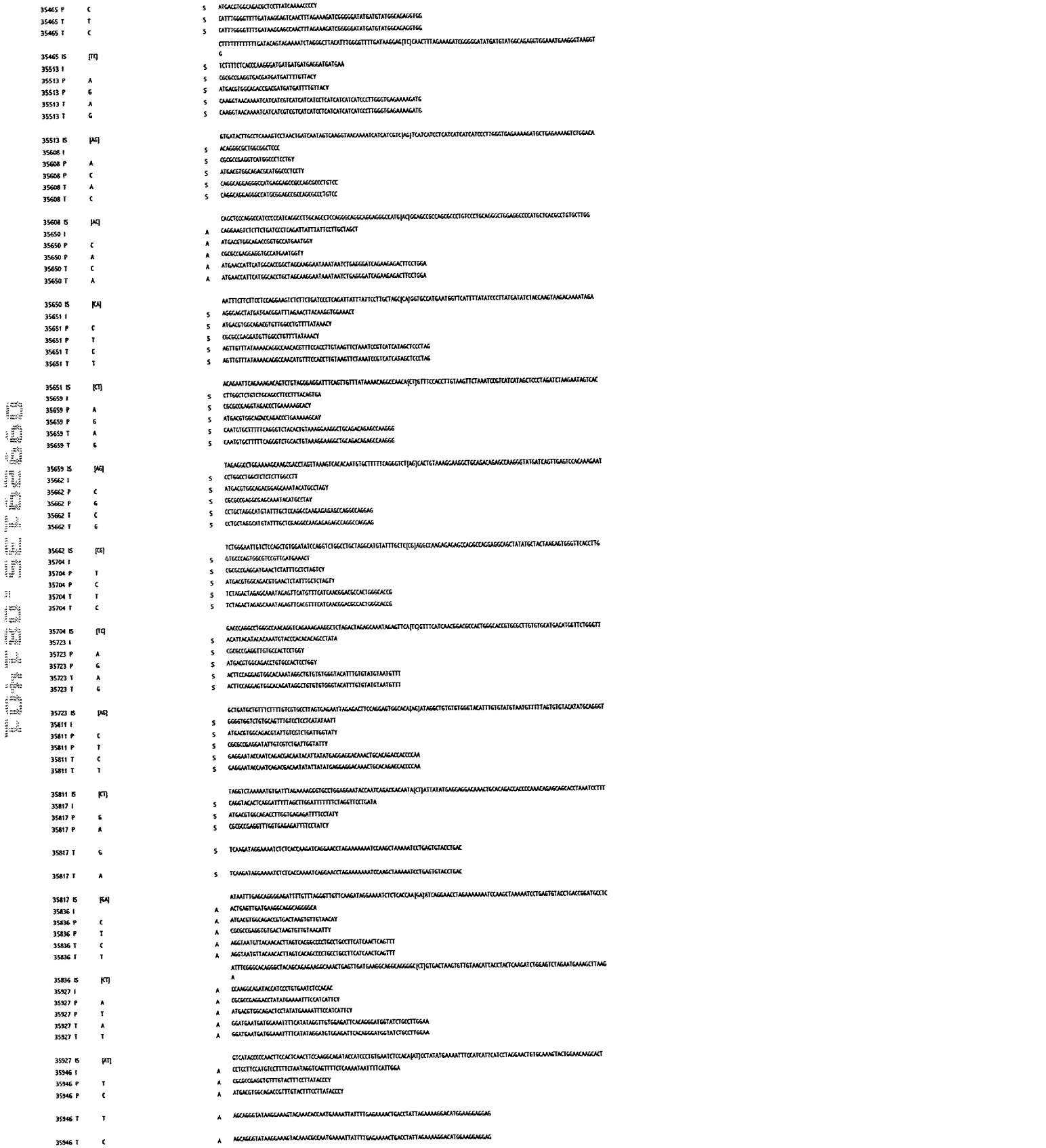


FIGURE 129F

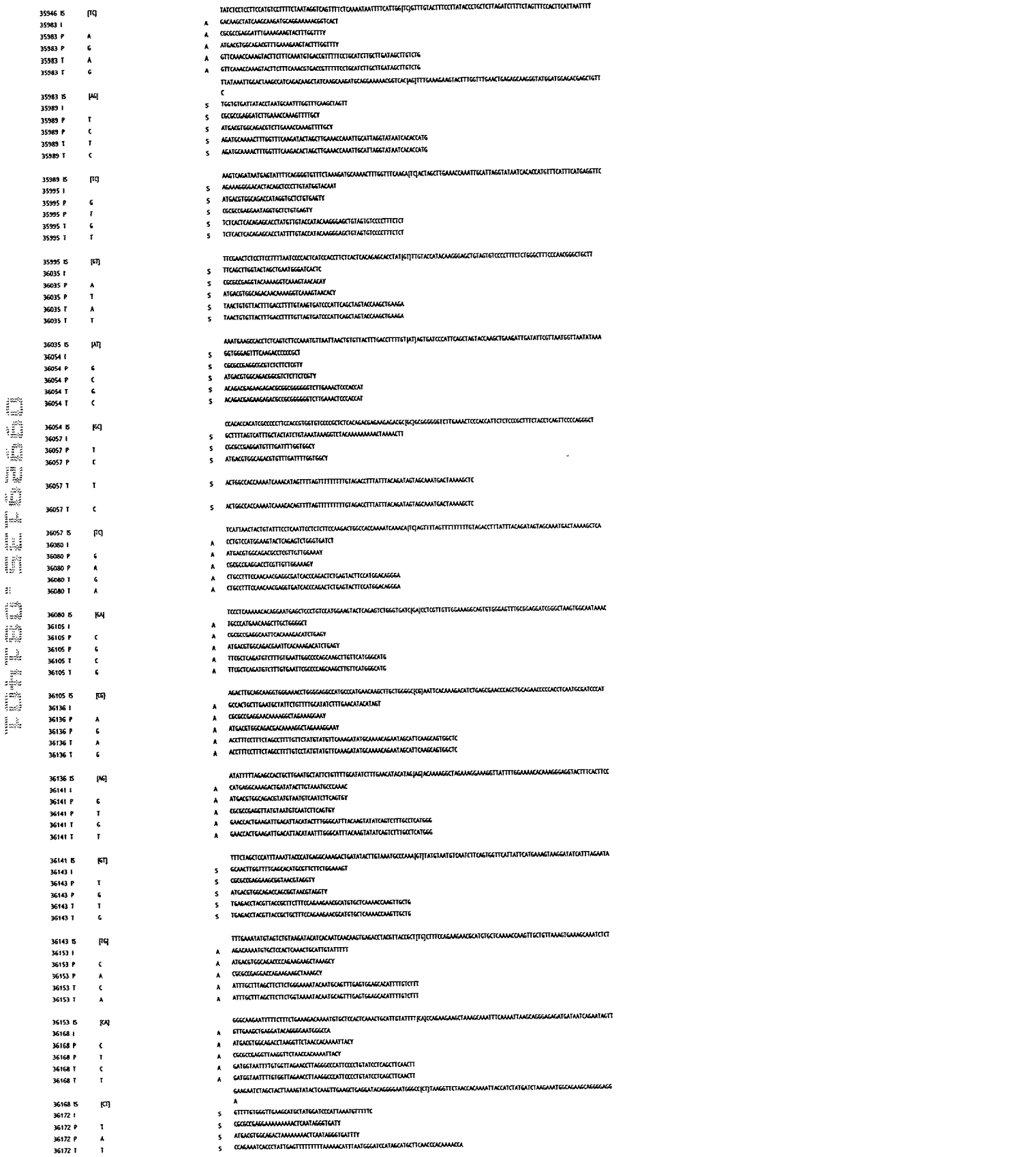




FIGURE 129F

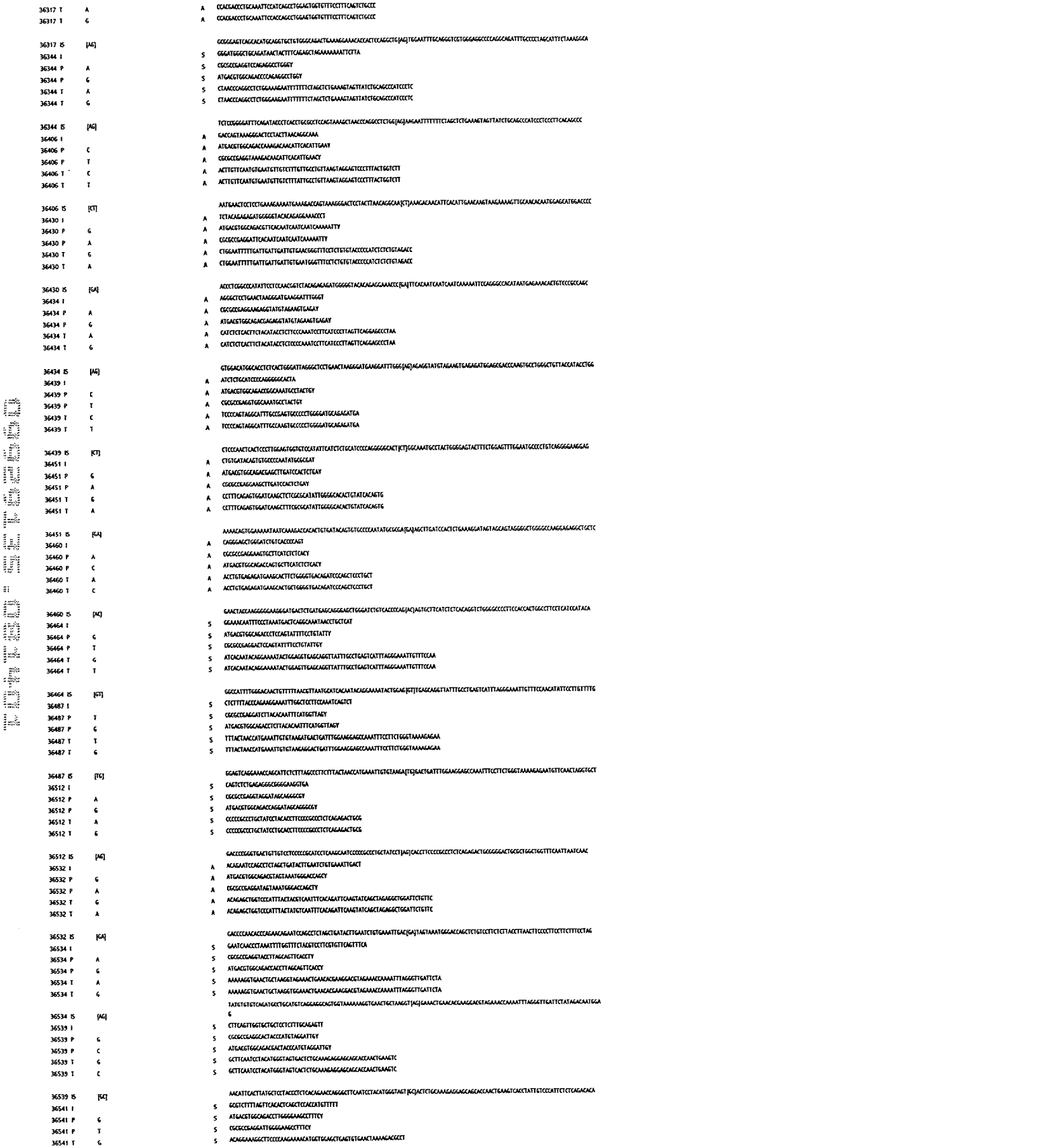

36317 T A A CCACGACCCTGCAAATTCCATCAGCCTGGAGTGGTGTTTCCTTTCAGTCTGCCC
36317 T G A CCACGACCCTGCAAATTCCACCAGCCTGGAGTGGTGTTTCCTTTCAGTCTGCCC
36317 IS [AG] GCGGGAGTCAGCACATGCAGGTGCTGTGGGCAGACTGAAAGGAAACACCACTCCAGGCTG[AG]TGGAATTTGCAGGCTCGTGGGAGGCCCCAGGCAGATTTGCCCCTAGCATTTCTAAAGGCA
36344 I S GGGATGGGCTGCAGATAACTACTTTCAGAGCTAGAAAAAAATTCTTA
36344 P A S CGCGCCGAGGTCCAGAGGCCTGGGT
36344 P G S ATGACGTGGCAGACCCCAGAGGCCTGGY
36344 T A S CTAACCCAGGCCTCTGGAAAGAATTTTTTCTAGCTCTGAAAGTAGTTATCTGCAGCCCATCCCTC
36344 T G S CTAACCCAGGCCTCTGGGAAGAATTTTTTCTAGCTCTGAAAGTAGTTATCTGCAGCCCATCCCTC
36344 IS [AG] TCTCCGGGGATTTCAGATACCCTCACCTGCGCCTCCAGTAAAGCTAACCCAGGCCTCTGG[AG]AAGAATTTTTTTCTAGCTCTGAAAGTAGTTATCTGCAGCCCATCCCTCCTTCACAGCCC
36406 I A GACCAGTAAAGGGACTCCTACTTAACAGCCAAA
36406 P C A ATGACGTGGCAGACCAAAGACAACATTCACATTGAAT
36406 P T A CGCGCCGAGGTAAAGACAACATTCACATTGAACY
36406 T C A ACTTGTTCAATGTGAATGTTGTCTTTGTTGCCTGTTAAGTAGGAGTCCCTTTACTGGTCTT
36406 T T A ACTTGTTCAATGTGAATGTTGTCTTTATTGCCTGTTAAGTAGGAGTCCCTTTACTGGTCTT
36406 IS [CT] AATGAACTCCTCCTGAAAGAAAATGAAAGACCAGTAAAGGGACTCCTACTTAACAGGCAA[CT]AAAGACAACATTCACATTGAACAAGTAAGAAAAGTTGCAACACAATGCAGCATGGACCCC
36430 I A TCTACAGAGAGATGGGGGTACACAGAGGAAACCCT
36430 P G A ATGACGTGGCAGACGTTCACAATCAATCAATCAAAAATTY
36430 P A A CGCGCCGAGGATTCACAATCAATCAATCAAAAATTY
36430 T G A CTGGAATTTTTGATTGATTGTGAATGGGTTTCCTCTGTGTACCCCCATCTCTCTGTAGACC
36430 T A A CTGGAATTTTTGATTGATTGTGAATGGGTTTCCTCTGTGTACCCCCATCTCTCTGTAGACC
36430 IS [GA] ACCCTCGGGCCCATATTCCTCCAACGGTCTACAGAGAGATGGGGGTACACAGAGGAAACCC[GA]TTCACAATCAATCAATCAAAAATTCCAGGGCCACATAATGAGAAACACTGTCCCGCCAGC
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36434 P A A CGCGCCGAGGAAGAGGTATGTAGAAGTGAGAY
36434 P G A ATGACGTGGCAGACGAGAGGTATGTAGAAGTGAGAY
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36434 T G A CATCTCTCACTTCTACATACCTCTCCCCAAATCCTTCATCCCTTAGTTCAGGAGCCCTAA
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36439 I A ATCTCTGCATCCCCAGGGGGCACTA
36439 P C A ATGACGTGGCAGACGGCAAATGCCTACTGY
36439 P T A CGCGCCGAGGTGGCAAATGCCTACTGY
36439 T C A TCCCCAGTAGGCATTTGCCGAGTGCCCCCTGGGGATGCAGAGATGA
36439 T T A TCCCCAGTAGGCATTTGCCAAGTGCCCCCTGGGGATGCAGAGATGA
36439 IS [CT] CTCCCAACTCACTCCCTTGGAGTGGTGTCCATATTCATCTCTGCATCCCCAGGGGGCACT[CT]GGCAAATGCCTACTGGGGAGTACTTTCTGGAGTTTGGAATGCCCCTGTCAGGGGAAGGAG
36451 I A CTGTGATACAGTGTGCCCCAATATGGGCGAT
36451 P G A ATGACGTGGCAGACGAGCTTGATCCACTCTGAY
36451 P A A CGGGCCGAGGAAGCTTGATCCACTCTGAY
36451 T G A CCTTTCAGAGTGGATCAAGCTCTCGGGCATATTGGGGCACACTGTATCACAGTG
36451 T A A CCTTTCAGAGTGGATCAAGCTTTCGCGCATATTGGGGCACACTGTATCACAGTG
36451 IS [GA] AAAACAGTGGAAAAATAATCAAAGACCACACTGTGATACAGTGTGCCCCAATATGCGGGA[GA]AGCTTGATCCACTCTGAAAGGATAGTAGCAGTAGGGGCTGGGGCCAAGGAGAGGCTGCTC
36460 I A CAGGGAGCTGGGATCTGTCACCCCAGT
36460 P A A CGCGCCGAGGAAGTGCTTCATCTCTCACY
36460 P C A ATGACGTGGCAGACCAGTGCTTCATCTCTCACY
36460 T A A ACCTGTGAGAGATGAAGCACTTCTGGGGTGACAGATCCCAGCTCCCTGCT
36460 T C A ACCTGTGAGAGATGAAGCACTGCTGGGGTGACAGATCCCAGCTCCCTGCT
36460 IS [AC] GAACTACCAAGGGGGAAGGGATGACTCTGATGAGCAGGGAGCTGGGATCTGTCACCCCAG[AC]AGTGCTTCATCTCTCACAGGTCTGGGGCCCCTTCCCACCACTGGCCTTCCTCATCCATACA
36464 I S GGAAACAATTTCCCTAAATGACTCAGGCAAATAACCTGCTCAT
36464 P G S ATGACGTGGCAGACCCTCCAGTATTTCCTGTATTY
36464 P T S CGCGCCGAGGACTCCAGTATTTCCTGTATTGY
36464 T G S ATCACAATACAGGAAAATACTGGAGGTGAGCAGGTTATTTGCCTGAGTCATTTAGGGAAATTGTTTCCAA
36464 T T S ATCACAATACAGGAAAATACTGGAGTTGAGCAGGTTATTTGCCTGAGTCATTTAGGGAAATTGTTTCCAA
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36487 I S CTCTTTACCCAGAAGGAAATTTGGCTCCTTCCAAATCAGTCT
36487 P T S CGCGCCGAGGATCTTACACAATTTCATGGTTAGY
36487 P G S ATGACGTGGCAGACCTCTTACACAATTTCATGGTTAGY
36487 T T S TTTACTAACCATGAAATTGTGTAAGATGACTGATTTGGAAGGAGCCAAATTTCCTTCTGGGTAAAAGAGAA
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36512 I S CAGTCTCTGAGAGGGCGGGGAAGGTGA
36512 P A S CGCGCCGAGGTAGGATAGCAGGCGY
36512 P G S ATGACGTGGCAGACCAGGATAGCAGGCGY
36512 T A S CCCCGCCCTGCTATCCTACACCTTCCCCGCCCTCTCAGAGACTGCG
36512 T G S CCCCGCCCTGCTATCCTGCACCTTCCCCGCCCTCTCAGAGACTGCG
36512 IS [AC] GACCCCGGGTGACTGTTGTCCTCCCCGCATCCTCAAGCAATCCCCCGCCCTGCTATCCT[AC]CACCTTCCCCGCCCTCTCAGAGACTGGGGGGACTGCGCTGGCTGGTTTCAATTAATCAAC
36532 I A ACAGAATCCAGCCTCTAGCTGATACTTGAATCTGTGAAATTGACT
36532 P G A ATGACGTGGCAGAGSTAGTAAATGGGACCAGCY
36532 P A A CGCGCCGAGGATAGTAAATGGGACCAGCY
36532 T G A ACAGAGCTGGTCCCATTTACTATGTCAATTTCACAGATTCAAGTATCAGCTAGAGGCTGGATTCTGTTC
36532 T A A ACAGAGCTGGTCCCATTTACTATGTCAATTTCACAGATTCAAGTATCAGCTAGAGGCTGGATTCTGTTC
36532 IS [GA] GACCCCAACACCCAGAACAGAATCCAGCCTCTAGCTGATACTTGAATCTGTGAAATTGAC[GA]TAGTAAATGGGACCAGCTCTGTCCTTCTCTTACCTTAACTTCCCCTTCCTTCTTTCCTAG
36534 I S GAATCAACCCTAAATTTTGGTTTCTACGTCCTTCGTGTTCAGTTTCA
36534 P A S CGCGCCGAGGTACCTTAGCAGTTCACCTY
36534 P G S ATGACGTGGCAGACCACCTTAGCAGTTCACCY
36534 T A S AAAAAGGTGAACTGCTAAGGTAGAAACTGAACACGAAGGACGTAGAAACCAAAATTTAGGGTTGATTCTA
36534 T G S AAAAAGGTGAACTGCTAAGGTGGAAACTGAACACGAAGGACGTAGAAACCAAAATTTAGGGTTGATTCTA
36534 IS [AG] TATGTGTGTCAGATGCCTGCATGTCAGGAGGCAGTGGTAAAAAAGGTGAACTGCTAAGGT[AG]GAAACTGAACACGAAGGACGTAGAAACCAAAATTTAGGGTTGATTCTATAGACAATGGA G
36539 I S CTTCAGTTGGTGCTGCTCCTCTTTGCAGAGTT
36539 P G S CGCGCCGAGGCACTACCCATGTAGGATTGY
36539 P C S ATGACGTGGCAGACGACTACCCATGTAGGATTGY
36539 T G S GCTTCAATCCTACATGGGTAGTGACTCTGCAAAGAGGAGCAGCACCAACTGAAGTC
36539 T C S GCTTCAATCCTACATGGGTAGTCACTCTGCAAAGAGGAGCAGCACCAACTGAAGTC
36539 IS [GC] AACATTCACTTATGCTCCTACCCTCTCACAGAACCAGGGCTTCAATCCTACATGGGTAGT[GC]ACTCTGCAAAGAGGAGCAGCACCAACTGAAGTCACCTATTGTCCCATTCTCTCAGACACA
36541 I S GCGTCTTTTAGTTCACACTCAGCTCCACCATGTTTTT
36541 P G S ATGACGTGGCAGACCTTGGGGAAGCCTTTCY
36541 P T S CGCGCCGAGGATTGGGGAAGCCTTTCY
36541 T G S ACAGGAAAGGCTTCCCCAAGAAAACATGGTGGAGCTGAGTGTGAACTAAAAGACGCCT

FIGURE 129F

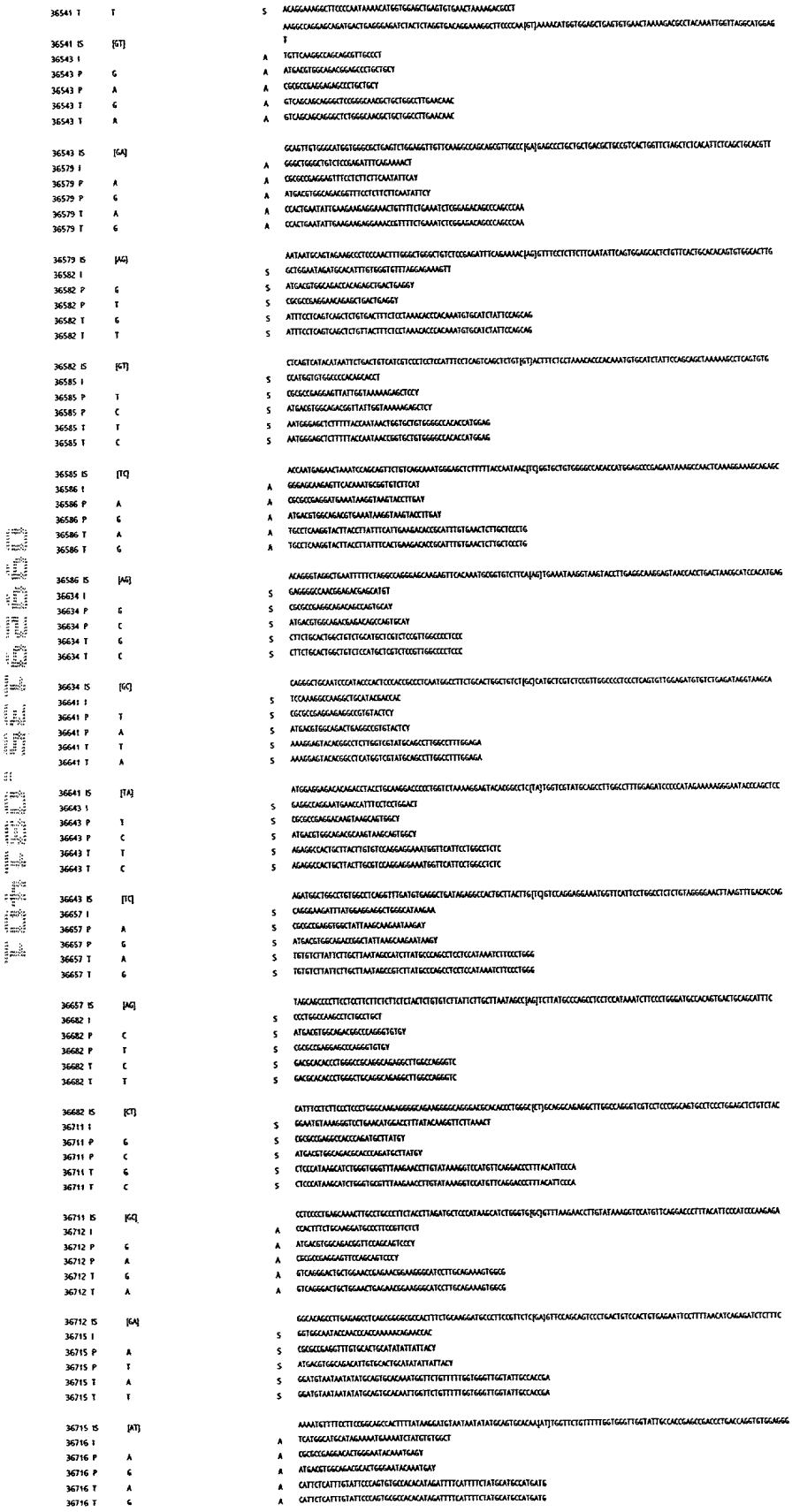

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36543 I A TGTTCAAGGCCAGCAGGGTTGCCCT
36543 P G A ATGACGTGGCAGACGGAGCCCTGCTGCY
36543 P A A CGGCCCAGCAGAGAGCCCTGCTGCY
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36579 I A GGGCTGGGCTGTCTCCGAGATTTCAGAAAACT
36579 P A A CGCGCCCAGGAGTTTCCTCTCTCTCAATATTCAY
36579 P G A ATGACGTGGCAGACGGTTTCCTCTTCTTCAATATTCY
36579 T A A CCACTGAATATTGAAGAAGAGGAAACTGTTTTCTGAAATCTGGAGACAGCCCAGCCCAA
36579 T G A CCACTGAATATTGAAGAAGAGGAAACCGTTTTCTGAAATCTGGAGACAGCCCAGCCCAA
36579 IS [AG] AATAATGCAGTAGAAGCCCTCCCAACTTTGGGCTGGGCTGTCTCCCAGATTTCAGAAAAC[AG]GTTTCCTCTTCTTCAATATTCAGTGGAGCACTCTGTTCACTGCACACAGTGTGGCACTTG
36582 I S GCTGGAATAGATGCACATTTGTGGGTGTTTAGGAGAAAGTT
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36582 P T S CGCGCCCAGGAACAGAGCTGACTGAGGY
36582 T G S ATTTCCTCAGTCAGCTCTGTGACTTTCTCCTAAACACCCACAAATGTGCATCTATTCCAGCAG
36582 T T S ATTTCCTCAGTCAGCTCTGTTACTTTCTCCTAAACACCCACAAATGTGCATCTATTCCAGCAG
36582 IS [GT] CTCAGTCATACATAATTCTGACTGTCATCGTCCCTCCTCCATTTCCTCAGTCAGCTCTGT[GT]ACTTTCTCCTAAACACCCACAAATGTGCATCTATTCCAGCAGCTAAAAAGCCTCAGTGTG
36585 I S CCATGGTGTGGCCCCACAGCACCT
36585 P T S CGCGCCCAGCAGTTATTGGTAAAAAGAGCTCCY
36585 P C S ATGACGTGGCAGACGGTTATTGGTAAAAAGAGCTCY
36585 T T S AATGGGAGCTCTTTTTACCAATAACTGGTGCTGTGGGGCCACACCATGGAG
36585 T C S AATGGGAGCTCTTTTTACCAATAACCGGTGCTGTGGGGCCACACCATGGAG
36585 IS [TC] ACCAATGAGAACTAAATCCAGCAGTCTGTCAGCAAATGGGAGCTCTTTTACCAATAAC[TC]GGTGCTGTGGGGCCACACCATGGAGCCCGAGAATAAAGCCAACTCAAAGGAAAGCAGAGC
36586 I A GGGAGCAAGAGTTCACAAATGCGGTGTCTTCAT
36586 P A A CGCGCCGAGGATGAAATAAGGTAAGTACCTTGAY
36586 P G A ATGACGTGGCAGACGTGAAATAAGGTAAGTACCTTGAY
36586 T A A TGCCTCAAGGTACTTACCTTATTTCATTGAAGACACCGCATTTGTGAACTCTGCTCCCTG
36586 T G A TGCCTCAAGGTACTTACCTTATTTCACTGAAGACACCGCATTTGTGAACTCTGCTCCCTG
36586 IS [AG] ACAGGGTAGGCTGAATTTTTCTAGGCCAGGGAGCAAGAGTTCACAAATGCGGTGTCTTCA[AG]TGAAATAAGGTAAGTACCTTGAGGCAAGGAGTAACCACCTGACTAAGCATCCACATGAG
36634 I S GAGGGCCAACGGAGAGCGAGCATGT
36634 P G S CGCGCCGAGGCAGACACCAGTGCAY
36634 P C S ATGACGTGGCAGACGAGACAGCCAGTGCAY
36634 T G S CTTCTGCACTGGCTGTCTGCATGCTCGTCTCCGTTGGCCCCTCCC
36634 T C S CTTCTGCACTGGCTGTCTCCATGCTCGTCTCCGTTGGCCCCTCCC
36634 IS [GC] CAGGGCTGCAATCCCATACCCACTCCCACCGCCCTCAATGGCCTTCTGCACTGGCTGTCT[GC]CATGCTCGTCTCCGTTGGCCCCTCCCTCAGTGTTGGAGATGTGTCTCAGATAGGTAAGCA
36641 I S TCCAAAGGCCAAGGCTGCATACGACCAC
36641 P T S CGCGCCGAGGAGAGGCCGTGTACTCY
36641 P A S ATGACGTGGCAGACTGAGGCCGTGTACTCY
36641 T T S AAAGGAGTACACGGCCTCTTGGTCGTATGCAGCCTTGGCCTTTGGAGA
36641 T A S AAAGGAGTACACGGCCTCATGGTCGTATGCAGCCTTGGCCTTTGGAGA
36641 IS [TA] ATGGAGGAGACACAGACCTACCTGCAAGGACCCCCTGGTCTAAAGGAGTACAGGGCCTC[TA]TGGTCGTATGCAGCCTTGGCCTTTGGAGATCCCCCATAGAAAAAGGGAATACCCAGCTCC
36643 I S GAGGCCAGGAATGAACCATTTCCTCCTGGACT
36643 P T S CGCGCCGAGGACAAGTAAGCAGTGGCY
36643 P C S ATGACGTGGCAGACGCAAGTAAGCAGTGGCY
36643 T T S AGAGGCCACTGCTTACTTGTGTCCAGGAGGAAATGGTTCATTCCTGGCCTCTC
36643 T C S AGAGGCCACTGCTTACTTGCGTCCAGGAGGAAATGGTTCATTCCTGGCCTCTC
36643 IS [TC] AGATGGCTGGCCTGTGGCCTCAGGTTTGATGTGAGGCTGATAGAGGCCACTGCTTACTTG[TC]GTCCAGGAGGAAATGGTTCATTCCTGGCCTCTCTGTAGGGGAACTTAAGTTTGACACCAG
36657 I S CAGGGAAGATTTATGGAGGAGGCTGGGCATAAGAA
36657 P A S CGCGCCGAGGTGGCTATTAAGCAAGAATAAGAY
36657 P G S ATGACGTGGCAGACGGCTATTAAGCAAGAATAAGY
36657 T A S TGTGTCTTATTCTTGCTTAATAGCCATCTTATGCCCAGCCTCCTCCATAAATCTTCCCTGGG
36657 T G S TGTGTCTTATTCTTGCTTAATAGCCGTCTTATGCCCAGCCTCCTCCATAAATCTTCCCTGGG
36657 IS [AG] TAGCAGCCCCTTCCTCCTTCTTCTCTCTACTCTGTGTCTTATTCTTGCTTAATAGCC[AG]TCTTATGCCCAGCCTCCTCCATAAATCTTCCCTGGGATGCCACAGTGACTGCAGCATTTC
36682 I S CCCTGGCCAAGCCTCTGCCTGCT
36682 P C S ATGACGTGGCAGACGGCCCAGGGTGTGY
36682 P T S CGCGCCGAGGAGCCCAGGGTGTGY
36682 T C S GACGCACACCCTGGGCCGCAGGCAGAGGCTTGGCCAGGGTC
36682 T T S GACGCACACCCTGGGCTGCAGGCAGAGGCTTGGCCAGGGTC
36682 IS [CT] CATTTCCTCTTCCCTCCCTGGGCAAGAGGGGCAGAAGGGGCAGGCAGCGCACACCCTGGGC[CT]GCAGGCCAGAGGCTTGGCCAGGGTCGTCCTCCCGGCAGTGCCTCCCTGGAGCTCTGTCTAC
36711 I S GGAATGTAAAGGGTCCTGAACATGGACCTTTATACAAGGTTCTTAAACT
36711 P G S CGCGCCGAGGCCACCCAGATGCTTATGY
36711 P C S ATGACGTGGCAGACGCACCCAGATGCTTATGY
36711 T G S CTCCCATAAGCATCTGGGTGGGTTTAAGAACCTTGTATAAAGGTCCATGTTCAGGACCCTTTACATTCCCA
36711 T C S CTCCCATAAGCATCTGGGTGGGTTTAAGAACCTTGTATAAAGGTCCATGTTCAGGACCCTTTACATTCCCA
36711 IS [GC] CCTCCCCTGAGCAAACTTGCCTGCCCTTCTACCTTAGATGCTCCCATAAGCATCTGGGTG[GC]GTTTAAGAACCTTGTATAAAGGTCCATGTTCAGGACCCTTTACATTCCCATCCCAAGAGA
36712 I A CCACTTTCTGCAAGGATGCCCTTCCGTTCTCT
36712 P G A ATGACGTGGCAGACGGTTCCAGCAGTCCCY
36712 P A A CGCGCCGAGCAGTTCCAGCAGTCCCY
36712 T G A GTCAGGGACTGCTGGAACTGAGAACGGAAGGGCATCCTTGCAGAAAGTGGCG
36712 T A A GTCAGGGACTGCTGGAACTGAGAACGGAAGGGCATCCTTGCAGAAAGTGGCG
36712 IS [GA] GGCACAGCCTTGAGAGCCTCAGCGGGGCGCCACTTTCTGCAAGGATGCCCTTCCGTTCTC[GA]GTTCCAGCAGTCCCTGACTGTCCACTGTGAGAATTCCTTTTAACATCAGAGATCTCTTTC
36715 I S GGTGGCAATACCAACCCACACAAAAACAGAACCAC
36715 P A S CGGCCCAGGTTTGTGCACTGCATATATTATTACY
36715 P T S ATGACGTGGCAGACATTGTGCACTGCATATATTATTACY
36715 T A S GGATGTAATAATATATGCAGTGCACAAATGGTTCTGTTTTTGGTGGGTTGGTATTGCCACCGA
36715 T T S GGATGTAATAATATATGCAGTGCACAATTGGTTCTGTTTTTGGTGGGTTGGTATTGCCACCGA
36715 IS [AT] AAAATGTTTTCCTTCCGGCAGCCAACTTTTATAAGGATGTAATAATATATGCAGTGCACAA[AT]TGGTTCTGTTTTTGGTGGGTTGGTATTGCCACCGAGCCGACCCTGACCAGGTGTGGAGGG
36716 I A TCATGGCATGCATAGAAAATGAAAATCTATGTGTGGCT
36716 P A A CGCGCCGAGGACACTGGGAATACAAATGAGY
36716 P G A ATGACGTGGCAGACGCACTGGGAATACAAATGAY
36716 T A A CATTCTCATTTGTATTCCCAGTGTGCCACACATAGATTTTCATTTTCTATGCATGCCATGATG
36716 T G A CATTCTCATTTGTATTCCCAGTGGGCCACACATAGATTTTCATTTTCTATGCATGCCATGATG

FIGURE 129F

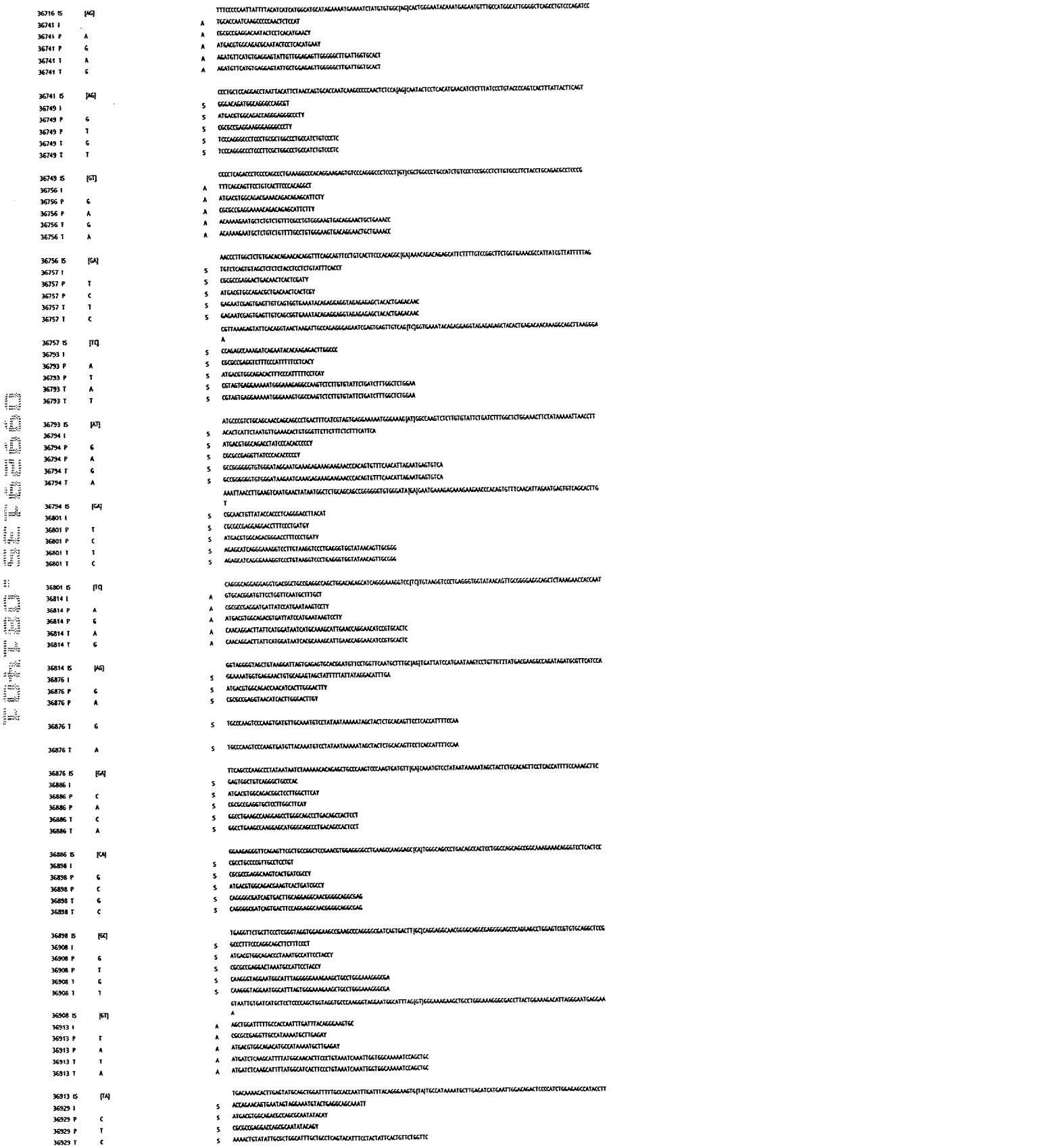

36716 IS [AG]
36741 I
36741 P A
36741 P G
36741 T A
36741 T G
36741 IS [AG]
36749 I
36749 P G
36749 P T
36749 T G
36749 T T
36749 IS [GT]
36756 I
36756 P G
36756 P A
36756 T G
36756 T A
36756 IS [GA]
36757 I
36757 P T
36757 P C
36757 T T
36757 T C
36757 IS [TC]
36793 I
36793 P A
36793 P T
36793 T A
36793 T T
36793 IS [AT]
36794 I
36794 P G
36794 P A
36794 T G
36794 T A
36794 IS [GA]
36801 I
36801 P T
36801 P C
36801 T T
36801 T C
36801 IS [TC]
36814 I
36814 P A
36814 P G
36814 T A
36814 T G
36814 IS [AG]
36876 I
36876 P G
36876 P A
36876 T G
36876 T A
36876 IS [GA]
36886 I
36886 P C
36886 P A
36886 T C
36886 T A
36886 IS [CA]
36898 I
36898 P G
36898 P C
36898 T G
36898 T C
36898 IS [GC]
36908 I
36908 P G
36908 P T
36908 T G
36908 T T
36908 IS [GT]
36913 I
36913 P T
36913 P A
36913 T T
36913 T A
36913 IS [TA]
36929 I
36929 P C
36929 P T
36929 T C

FIGURE 129F

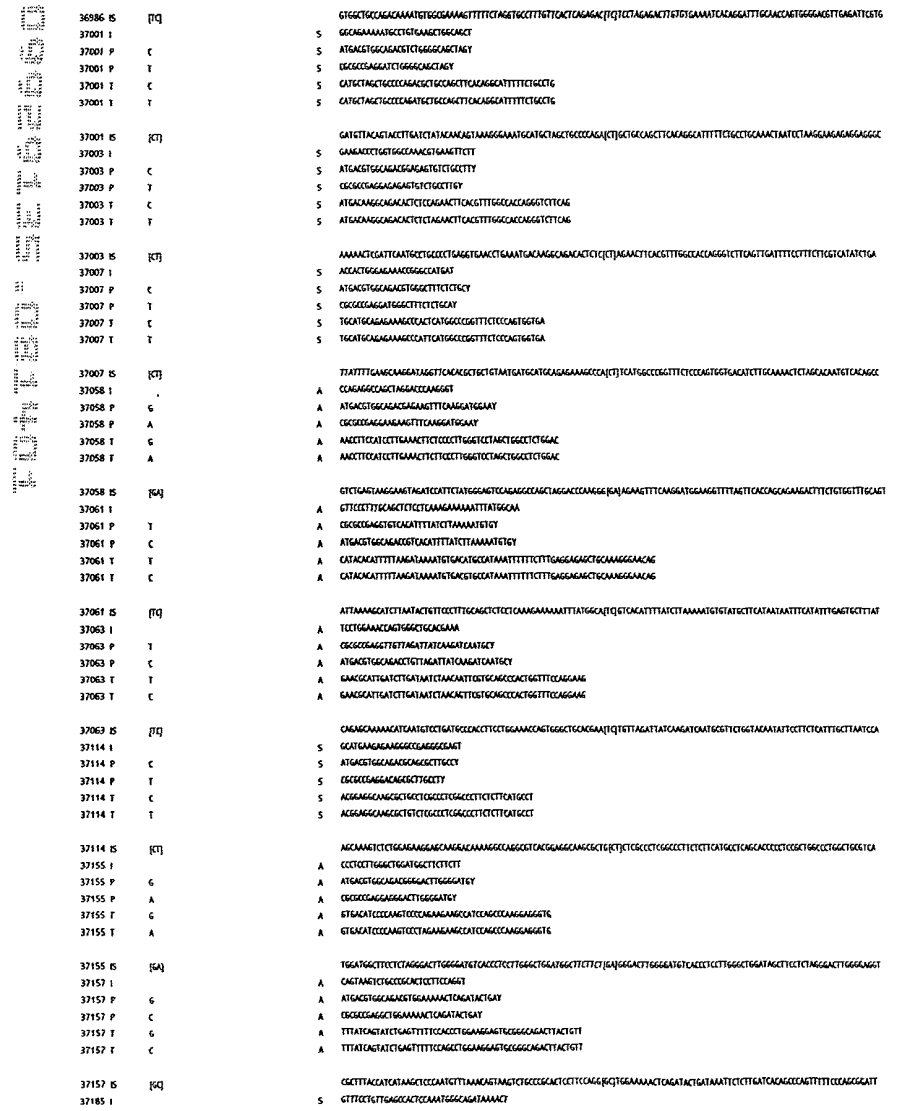

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36929 IS [CT] AGTGACGTGCTTTCCGTGGGAAAATAAAACTTTTATTGGTAAAACTGTATATTGCGCTGG[CT]ATTTGCTGCCTCAGTACATTTCCTACTATTCACTGTTCTGGTTCGCACCAGCACCATGAG
36938 I A GGCTGGATACTTTAGGGCAGATGAGTATACAATGTGAATACACATT
36938 P A A CGCGCCGAGGATCCATAATGGCCAGGAY
36938 P G A ATGACGTGGCAGACGTCCATAATGGCCAGGAY
36938 T A A TGTTTCCTGGCCATTATGGATATGTGTATTCACATTGTATACTCATCTGCCCTAAAAGTATCCAGCCCA
36938 T G A TGTTTCCTGGCCATTATGGACATGTGTATTCACATTGTATACTCATCTGCCCTAAAAGTATCCAGCCCA
36938 IS [AG] AATGTCATGTTGTGGGCTGGATACTTTAGGGCAGATGAGTATACAATGTGAATACACAT[AG]TCCATAATGGCCAGGAAACAGTGCCCATGTCTGTGCCATTCGGAAATGATTAGAGGTAAT
36940 I A GTATGCAGGATTTTAACCATTTATTCCCATTCATATACTTTCAAGCT
36940 P G A ATGACGTGGCAGACGTATTTTATGAAATGTCCATCACCY
36940 P C A CGCGCCGAGGCTATTTTATGAAATGTCCATCACCY
36940 T G A GGGAGGTGATGGACATTTCATAAAATACGCTTGAAAGTATATGAATGGGAATAAATGGTTAAAATCCTGCATACTG
36940 T C A GGGAGGTGATGGACATTTCATAAAATAGGCTTGAAAGTATATGAATGGGAATAAATGGTTAAAATCCTGCATACTG
36940 IS [GC] TTGTTTATATTACAGTATGCAGGATTTTAACCATTTATTCCCATTCATATACTTTCAAGC[GC]TATTTTATGAAATGTCCATCACCTCCCTGCTGAATCACGTTGAGATGGGTTGGGTGCTTC
36961 I A TCTGCACTCTAAGATGGAATAAAGAGTAAAAGAAAGAAAAAAAAATTGAAAATCTT
36961 P G A ATGACGTGGCAGACGTCCCAGAAATTTAGTACTGTY
36961 P A A CGCGCCGAGGATCCCAGAAATTTAGTACTGTGY
36961 T G A AGTTCACAGTACTAAATTTCTGGGACAGATTTTCAATTTTTTTTCTTTCTTTTACTCTTATTCCATCTTAGAGTGCAGAGC
36961 T A A AGTTCACAGTACTAAATTTCTGGGATAGATTTTCAATTTTTTTTCTTTCTTTTACTCTTATTCCATCTTAGAGTGCAGAGC
36961 IS [GA] AGGGCTCTGCACTCTAAGATGGAATAAAGAGTAAAAGAAAGAAAAAAAAATTGAAAATCT[GA]TCCTAGAGACTTGTGTGAAAATCACAGGATTTGCAACCAGTGGGGAAGTTGAGATTCGTG
36986 I S CTGGTTGCAAATCCTGTGATTTTCACACAAGTCTCTAGGAT
36986 P T S CGCGCCGAGGAGTCTCTGAGTGAACAAAGY
36986 P C S ATGACGTGGCAGACGGTCTCTGAGTGAACAAAGY
36986 T T S GTGCCTTTGTTCACTCAGAGACTTCCTAGAGACTTGTGTGAAAATCACAGGATTTGCAACCAGTG
36986 T C S GTGCCTTTGTTCACTCAGAGACCTCCTAGAGACTTGTGTGAAAATCACAGGATTTGCAACCAGTG
36986 IS [TC] GTGGCTGCCAGACAAAATGTGCGCGAAAAGTTTTTCTAGGTGCCTTTGTTCACTCAGAGAC[TC]TCCTAGAGACTTGTGTGAAAATCACAGGATTTGCAACCAGTGGGGAAGTTGAGATTCGTG
37001 I S GGCAGAAAAATGCCTGTGAAGCTGGCAGCT
37001 P C S ATGACGTGGCAGACGTCTGGGGCAGCTAGY
37001 P T S CGCGCCGAGGATCTCGGGGCAGCTAGY
37001 T C S CATGCTAGCTGCCCCAGACGCTGCCAGCTTCACAGGCATTTTTCTGCCTG
37001 T T S CATGCTAGCTGCCCCAGATGCTGCCAGCTTCACAGGCATTTTTCTGCCTG
37001 IS [CT] GATGTTACAGTAACTTGATCTATACAACAGTAAAGGGAAATGCATGCTAGCTGCCCCAGA[CT]GCTGCCAGCTTCACAGGCATTTTTCTGCCTGCAAACTAATCCTAAGGAAGAGAGGAGGCC
37003 I S GAAGACCCTGGTGGCCAAACGTGAAGTTCTT
37003 P C S ATGACGTGGCAGACGGACAGTGTCTGCCTTY
37003 P T S CGCGCCGAGGAGACAGAGTGTCTGCCTTGY
37003 T C S ATGACAAGGCAGACACTCTCCAGAACTTCACGTTTGGCCACCAGGGTCTTCAG
37003 T T S ATGACAAGGCAGACACTCTCTAGAACTTCACGTTTGGCCACCAGGGTCTTCAG
37003 IS [CT] AAAAACTCGATTCAATGCCTGCCCCTGAGGTGAACCTGAAATGACAAGGCAGACACTCTC[CT]AGAACTTCACGTTTGGCCACCAGGGTCTTCAGTTGATTTTCCTTTCTTCGTCATATCTGA
37007 I S ACCACTGGCAGAAACCGGGCCATGAT
37007 P C S ATGACGTGGCAGACGTGGGCTTTCTCTGCY
37007 P T S CGCGCCGAGGATGGGCTTTCTCTGCAY
37007 T C S TGCATGCAGAGAAAGCCCACTCATGGCCCGGTTTCTCCCAGTGGTGA
37007 T T S TGCATGCAGAGAAAGCCCATTCATGGCCCGGTTTCTCCCAGTGGTGA
37007 IS [CT] TTATTTTGAAGCAAGGATAGGTTCACACGCTGCTGTAATGATGCATGCAGAGAAAGCCCA[CT]TCATGGCCCGGTTTCTCCCAGTGGTGACATCTTGCAAAACTCTAGCACAATGTCACAGCC
37058 I A CCAGAGGCCAGCTAGGACCCAAGGGT
37058 P G A ATGACGTGGCAGACGAAGGTTTCAAGGATGGAAY
37058 P A A CGCGCCGAGGAAGAAGTTTCAAGGATGGAAY
37058 T G A AACCTTCCATCCTTGAAACTTCTCCCCTTGGGTCCTAGCTGGCCTCTGGAC
37058 T A A AACCTTCCATCCTTGAAACTTCTTCCCTTGGGTCCTAGCTGGCCTCTGGAC
37058 IS [GA] GTCTGAGTAAGGAAGTAGATCCATTCTATGGGAGTCCAGAGGCCAGCTAGGACCCAAGGG[GA]AGAAGTTTCAAGGATGGAAGGTTTTAGTTCACCAGCAGAAGAACTTTCTGTGGTTTGCAGT
37061 I A GTTCCCTTTGCAGCTCTCCTCAAAGAAAAAATTTATGGCAA
37061 P T A CGCGCCGAGGTGTCAGATTTTATCTTAAAAATGTGY
37061 P C A ATGACGTGGCAGACCGTCACATTTTATCTTAAAAATGTGY
37061 T T A CATACACATTTTTAAGATAAAATGTGACATGCCATAAATTTTTTCTTTGAGGAGAGCTGCAAAGGGAACAG
37061 T C A CATACACATTTTTAAGATAAAATGTGACGTGCCATAAATTTTTTCTTTGAGGAGAGCTGCAAAGGGAACAG
37061 IS [TC] ATTAAAAGCATCTTAATACTGTTCCCTTTGCAGCTCTCCTCAAAGAAAAAATTTATGGCA[TC]GTCACATTTTATCTTAAAAATGTGTATGCTTCATAATAATTTCATATTTGAGTGCTTTAT
37063 I A TCCTGGAAACCAGTGGGCTGCACGAAA
37063 P T A CGCGCCGAGGTTGTTAGATTATCAAGATCAATGCY
37063 P C A ATGACGTGGCAGACCTGTTAGATTATCAAGATCAATGCY
37063 T T A GAACGCATTGATCTTGATAATCTAACAATTCGTGCAGCCCACTGGTTTCCAGCAAG
37063 T C A GAACGCATTGATCTTGATAATCTAACAGTTCGTGCAGCCCACTGGTTTCCAGCAAG
37063 IS [TC] CAGAGCAAAACATCAATGTCCTGATGCCCACCTTCCTGGAAACCAGTGGGCTGCACGAA[TC]TGTTAGATTATCAAGATCAATGCGTTCTGGTACAATATTCCTTCTCATTTGCTTAATCCA
37114 I S GCATGAAGAAGAGGCCGAGGGCGAGT
37114 P C S ATGACGTGGCAGACGCAGCGCTTGCCY
37114 P T S CGCGCCGAGGACAGCGCTTGCCTY
37114 T C S ACGGAGGCAAGCGCTGCCTCGCCCTCGACCCTTCTCTTCATGCCT
37114 T T S ACGGAGGCAAGCGCTGTCTCGCCCTCGACCCTTCTCTTCATGCCT
37114 IS [CT] AGCAAAGTCTCTGGAGAAGGAGCAAGGACAAAAGGCCAGGCGTCACGGAGGCAAGCGCTG[CT]CTCGCCCTCGGCCCTTCTCTTCATGCCTCAGCACCCCCTCCGCTGGCCCTGGCTGCGTCA
37155 I A CCCTCCTTGGGCTGGATGGCTTCTTCTT
37155 P G A ATGACGTGGCAGACGGGGACTTGGGGATGY
37155 P A A CGCGCCGAGGAGGGACTTGGGGATGY
37155 T G A GTGACATCCCCAAGTCCCCAGAAGAAGCCATCCAGCCCAAGGAGGGGTG
37155 T A A GTGACATCCCCAAGTCCCTAGAAGAAGCCATCCAGCCCAAGGAGGGGTG
37155 IS [GA] TGGATGGCTTCCTCTAGGGACTTGGGGATGTCACCCTCCTTGGGCTGGATGGCTTCTTCT[GA]GGGACTTGGGGATGTCACCCTCCTTGGGCTGGATAGCTTCCTCTAGGGACTTGGGGAGGT
37157 I A CAGTAAGTCTGCCCGCACTCCTTCCAGGT
37157 P G A ATGACGTGGCAGACGTGGAAAAACTCAGATACTGAY
37157 P C A CGCGCCGAGGCTGGAAAAACTCAGATACTGAY
37157 T G A TTTATCAGTATCTGAGTTTTTCCACCCTGGAAGGAGTGCGGGGCAGACTTACTGTT
37157 T C A TTTATCAGTATCTGAGTTTTTCCAGCCTGGAAGGAGTGCGGGGCAGACTTACTGTT
37157 IS [GC] CGCTTTACCATCATAAGCTCCCAATGTTAAACAGTAAGTCTGCCCGCACTCCTTCCAGG[GC]TGGAAAAACTCAGATACTGATAAATTCTCTTGATCACAGCCCAGTTTTTCCCAGCGGATT
37185 I S GTTTCCTGTTGAGCCACTCCAAATGGGCAGATAAAACT

FIGURE 129F

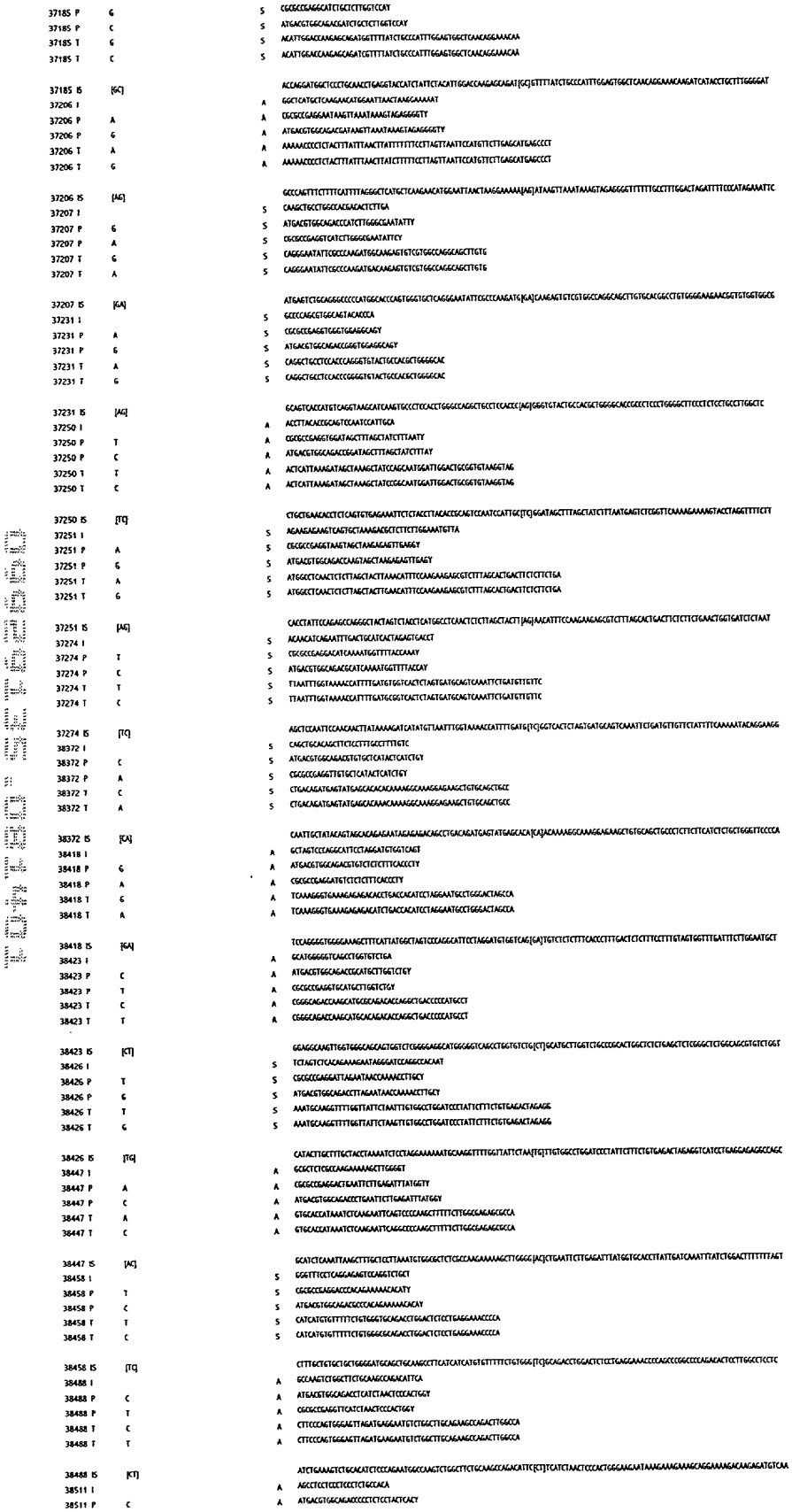


FIGURE 129F

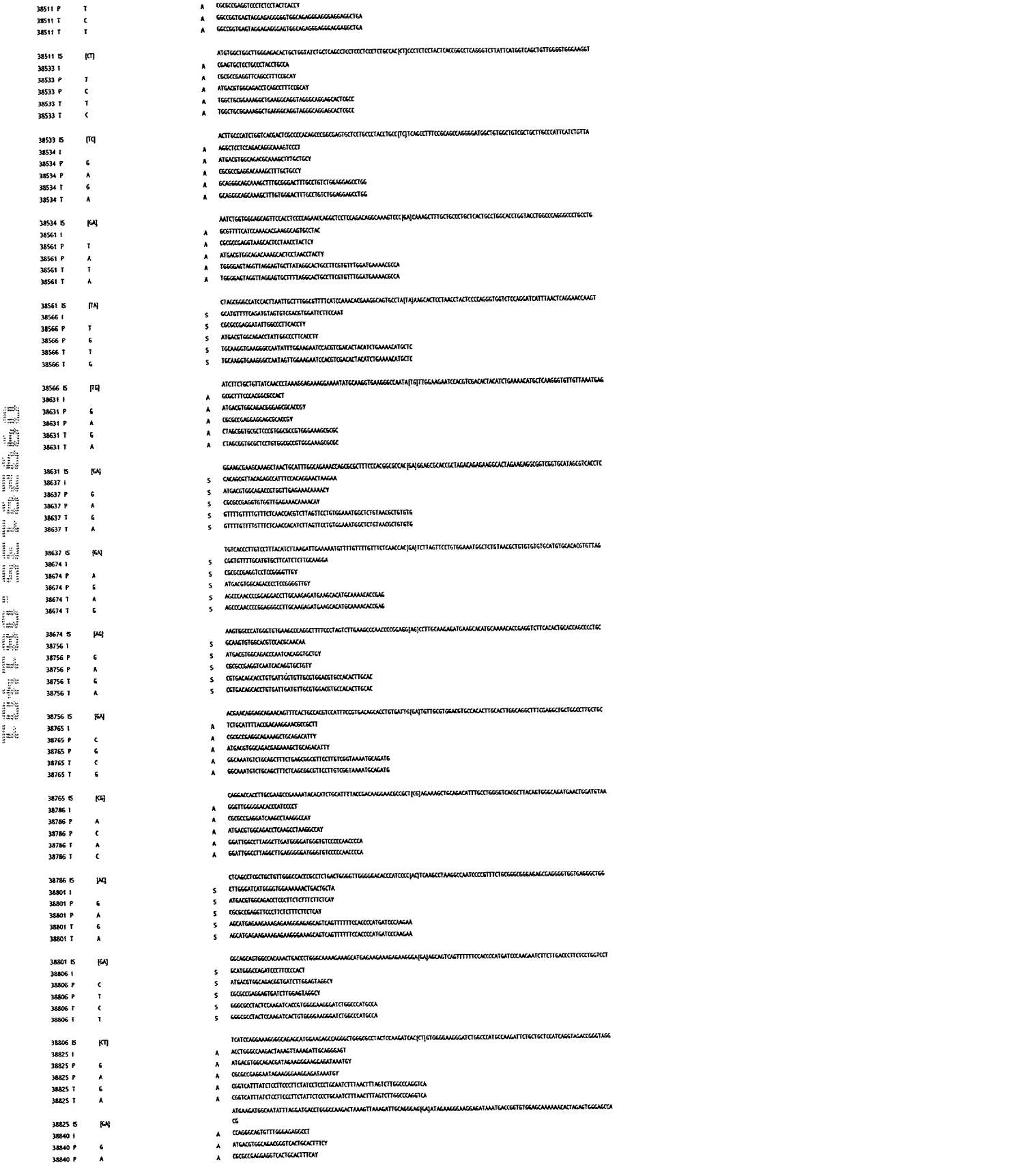
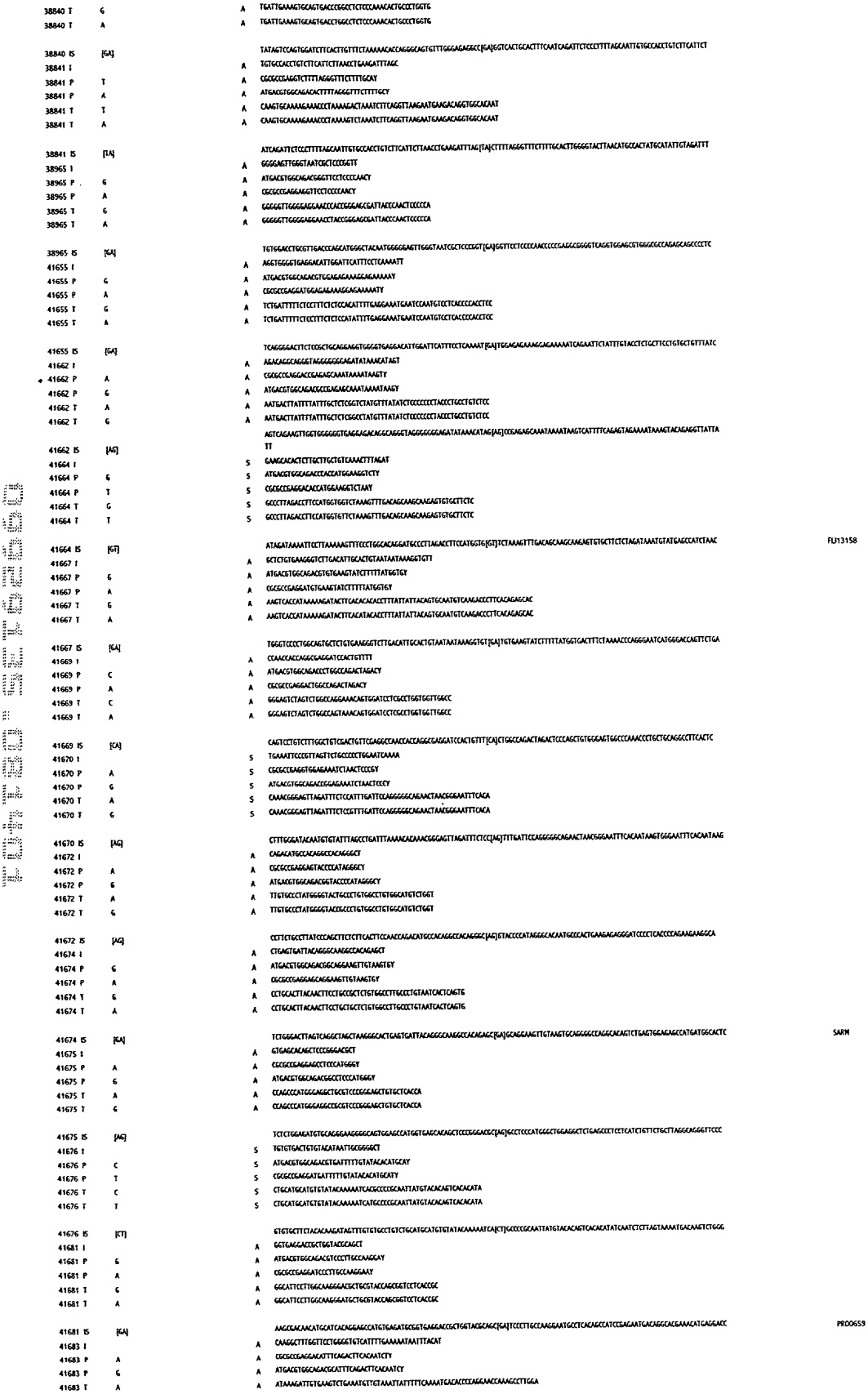

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38511 T C
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38511 T T
A GGCCGGTGAGTAGGAGAGGGAGTGGCAGAGGGAGGGAGAGGCTGA
38511 IS [CT]
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38533 I
A CGAGTGCTCCTGCCCTACCTGCCA
38533 P T
A CGCGCCGAGGTTCAGCCTTTCCGCAY
38533 P C
A ATGACGTGGCAGACCTCAGCCTTTCCGCAY
38533 T T
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38533 T C
A TGGCTGCGGAAAGGCTGAGGGCAGGTAGGGCAGGAGCACTCGCC
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38534 I
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38534 P G
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38534 P A
A CGCGCCGAGGACAAAGCTTTGCTGCCY
38534 T G
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38534 T A
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38534 IS [GA]
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38561 I
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38561 P T
A CGCGCCGAGGTAAGCACTCCTAACCTACTCY
38561 P A
A ATGACGTGGCAGACAAGCACTCCTAACCTACTY
38561 T T
A TGGGGAGTAGGTTAGGAGTGCTTATAGGCACTGCCTTCGTGTTTGGATGAAAACGCCA
38561 T A
A TGGGGAGTAGGTTAGGAGTGCTTTAGGCACTGCCTTCGTGTTTGGATGAAAACGCCA
38561 IS [TA]
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38566 I
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38566 P T
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38566 P G
S ATGACGTGGCAGACCTATTGGCCCTTCACCTY
38566 T T
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38566 T G
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38631 T G
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38631 T A
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38637 I
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38637 P G
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38637 P A
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38637 T G
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38674 I
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38674 P A
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38674 P G
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38674 T G
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38674 IS [AG]
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38756 I
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38756 P G
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38756 P A
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38756 T G
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38756 T A
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38756 IS [GA]
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38765 I
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38765 P C
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38765 P G
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38765 T C
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38765 T G
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38765 IS [CG]
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38786 P A
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38786 P C
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38786 T A
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38786 T C
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38786 IS [AC]
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38801 I
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38801 P G
S ATGACGTGGCAGACCTCCCTTCTCTTTCTTCTCAY
38801 P A
S CGCGCCGAGGTTCCCTTCTCTTTCTTCTCAY
38801 T G
S AGCATGAGAAGAAAGAGAAGGGAAAGCAGTCAGTTTTTTCCACCCCATGATCCCAAGAA
38801 T A
S AGCATGAGAAGAAAGAGAAGGGAAAGCAGTCAGTTTTTTCCACCCCATGATCCCAAGAA
38801 IS [GA]
GGCAGCAGTGGCCACAAACTGACCCTGGGCAAAGAAAGCATGAGAAGAAAGAGAAGGGA[GA]AGCAGTCAGTTTTTTCCACCCCATGATCCCAAGAATCTTCTTGACCCTTCTCCTGGTCCT
38806 I
S GCATGGGCCAGATCCCTTCCCCACT
38806 P C
S ATGACGTGGCAGACGGTGATCTTGGAGTAGGCY
38806 P T
S CGCGCCGAGGAGTGATCTTGGAGTAGGCY
38806 T C
S GGGCGCCTACTCCAAGATCACCGTGGGGAAGGGATCTGGCCCATGCCA
38806 T T
S GGGCGCCTACTCCAAGATCACTGTGGGGAAGGGATCTGGCCCATGCCA
38806 IS [CT]
TCATCCAGGAAAGGGCAGAGCATGGAAGAGCCAGGGCTGGGCGCCTACTCCAAGATCAC[CT]GTGGGGAAGGGATCTGGCCCATGCCAAGATTCTGCTGCTCCATCAGGTAGACCGGGTAGG
38825 I
A ACCTGGGCCAAGACTAAAGTTAAAGATTGCAGGGAGT
38825 P G
A ATGACGTGGCAGACGATAGAAGGGAAGGAGATAAATGY
38825 P A
A CGCGCCGAGGAATACAAGGGAAGGAGATAAATGY
38825 T G
A CGGTCATTTATCTCCTTCCCTCTATCCTCCCTGCAATCTTTAACTTTAGTCTTGGCCCAGGTCA
38825 T A
A CGGTCATTTATCTCCTTCCCTTCTATCTCCCTGCAATCTTTAACTTTAGTCTTGGCCCAGGTCA
38825 IS [GA]
ATGAAGATGGCAATATTTAGGATGACCTGGGCCAAGACTAAAGTTAAAGATTGCAGGGAG[GA]ATAGAAGGGAAGGAGATAAATGACCGGTGTGGAGCAAAAAACACTAGAGTGGGAGCCA
CG
38840 I
A CCAGGGCAGTGTTTGGGAGAGGCCT
38840 P G
A ATGACGTGGCAGAGGGTCACTGCACTTTCY
38840 P A
A CGCGCCGAGGAGGTCACTGCACTTTCAY

FIGURE 129F


38840 T G A TGATTGAAAGTGCAGTGACCCGGCCTCTCCCAAACACTGCCCTGGTG
38840 T A A TGATTGAAAGTGCAGTGACCTGGCCTCTCCCAAACACTGCCCTGGTG
38840 IS [GA] TATAGTCCAGTGGATCTTCACTTGTTCTAAAAACACCAGGGCAGTGTTTGGGAGAGGCC[GA]GGTCACTGCACTTTCAATCAGATTCTCCCCTTTAGCAATTGTGCCACCTGTCTTCATTCT
38841 I A TGTGCCACCTGTCTTCATTCTTAACCTGAAGATTTAGC
38841 P T A CGCGCCGAGGTCTTTTAGGGTTTCTTTTGCAY
38841 P A A ATGACGTGGCAGACACTTTTAGGGTTTCTTTTGCY
38841 T T A CAAGTGCAAAAGAAACCCTAAAAGACTAAATCTTCAGGTTAAGAATGAAGACAGGTGGCACAAT
38841 T A A CAAGTGCAAAAGAAACCCTAAAAGTCTAAATCTTCAGGTTAAGAATGAAGACAGGTGGCACAAT
38841 IS [TA] ATCAGATTCTCCCTTTTAGCAATTGTGCCACCTGTCTTCATTCTTAACCTGAAGATTTAG[TA]CTTTTAGGGTTTCTTTTGCACTTGGGGTACTTAACATGCCACTATGCATATTGTAGATTT
38965 I A GGGGAGTTGGGTAATCGCTCCCGGTT
38965 P G A ATGACGTGGCAGACGGGTTCCTCCCCAACY
38965 P A A CGCGCCGAGGAGGTTCCTCCCCAACY
38965 T G A GGGGGTTGGGGAGGAACCCACCGGGAGCGATTACCCAACTCCCCCA
38965 T A A GGGGGTTGGGGAGGAACCTACCGGGAGCGATTACCCAACTCCCCCA
38965 IS [GA] TGTGGACCTGCGTTGACCCAGCATGGGCTACAATGGGGGAGTTGGGTAATCGCTCCCGGT[GA]GGTTCCTCCCCAACCCCCGAGGCGGGGTCAGGTGGAGCGTGGGGCCCAGAGCAGCCCTC
41655 I A AGGTGGGGTGAGGACATTGGATTCATTTCCTCAAAATT
41655 P G A ATGACGTGGCAGACGTGGAGAGAAAGGAGAAAAAY
41655 P A A CGCGCCGAGGATGGAGAGAAAGGAGAAAAATY
41655 T G A TCTGATTTTCTCCCTTTCTCTCCACATTTTGAGGAAATGAATCCAATGTCCTCACCCCACCTCC
41655 T A A TCTGATTTTCTCCCTTTCTCTCCATATTTTGAGGAAATGAATCCAATGTCCTCACCCCACCTCC
41655 IS [GA] TCAGGGGACTTCTCCGCTGCAGGAGGTGGGGTGAGGACATTGGATTCATTTCCTCAAAATT[GA]TGGAGAGAAAGGAGAAAAATCAGAATTCTATTTGTACCTCTGCTTCCTGTGCTGTTTATC
41662 I A AGACAGCCAGGGTAGGGGGGCAGATATAAACATAGT
41662 P A A CGCGCCGAGGACCGAGAGCAAATAAAATAAGTY
41662 P G A ATGACGTGGCAGACGCCGAGAGCAAATAAAATAAGY
41662 T A A AATGACTTATTTTATTTGCTCTCGGCTATGTTTATATCTCCCCCCCTACCCTGCCTGTCTCC
41662 T G A AATGACTTATTTTATTTGCTCTCGGCTATGTTTATATCTCCCCCCCTACCCTGCCTGTCTCC
41662 IS [AG] AGTCAGAAGTTGGTGGGGGGGTGAGGAGACAGCAGGGTAGGGGGGGAGATATAAACATAG[AG]CCGAGAGCAAATAAAATAAGTCATTTTCAGAGTAGAAAATAAAGTACAGAGGTTATTA
41664 I S GAAGCACACTCTTGCTTGCTGTCAAACTTTAGAT
41664 P G S ATGACGTGGCAGACCCACCATGGAAGGTCTY
41664 P T S CGCGCCGAGGACACCATGGAAGGTCTAAY
41664 T G S GCCCTTAGACCTTCCATGGTGGTCTAAAGTTTGACAGCAAGCAAGAGTGTGCTTCTC
41664 T T S GCCCTTAGACCTTCCATGGTGTTCTAAAGTTTGACAGCAAGCAAGAGTGTGCTTCTC
41664 IS [GT] ATAGATAAAATTCTTAAAAAGTTTCCCTGGCACAGGATGCCCTTAGACCTTCCATGGTG[GT]TCTAAAGTTTGACAGCAAGCAAGAGTGTGCTTCTCTAGATAAATGTATGAGCCATCTAAC FLJ13158
41667 I A GCTCTGTGAAGGGTCTTGACATTGCACTGTAATAATAAAGGTGTT
41667 P G A ATGACGTGGCAGACGTGTGAAGTATCTTTTTATGGTGY
41667 P A A CGCGCCGAGGATGTGAAGTATCTTTTTATGGTGY
41667 T G A AAGTCACCATAAAAAGATACTTCACACACACCTTTATTATTACAGTGCAATGTCAAGACCCTTCACAGAGCAC
41667 T A A AAGTCACCATAAAAAGATACTTCACATACACCTTTATTATTACAGTGCAATGTCAAGACCCTTCACAGAGCAC
41667 IS [GA] TGGGTCCCCTGGCAGTGCTCTGTGAAGGGTCTTGACATTGCACTGTAATAATAAAGGTGT[GA]TGTGAAGTATCTTTTTATGGTCACTTTCTAAAACCCAGGGAATCATGGGACCAGTTCTGA
41669 I A CCAACCACCAGGCGAGGATCCACTGTTTT
41669 P C A ATGACGTGGCAGACCTGGCCAGACTAGACY
41669 P A A CGCGCCGAGGACTGGCCAGACTAGACY
41669 T C A GGGAGTCTAGTCTGGCCAGGAAACAGTGGATCCTCGCCTGGTGGTTGGCC
41669 T A A GGGAGTCTAGTCTGGCCAGTAAACAGTGGATCCTCGCCTGGTGGTTGGCC
41669 IS [CA] CAGTCCTGTCTTTGGCTGTCGACTGTTCGAGGCCAACCACCAGGCGAGGATCCACTGTTT[CA]CTGGCCAGACTGGACTCCCAGCTGTGGGAGTGGCCCAAACCCTGCTGCAGGCCTTCACTC
41670 I S TGAAATTCCCGTTAGTTCTGCCCCCTGGAATCAAAA
41670 P A S CGCGCCGAGGTGGAGAAATCTAACTCCCGY
41670 P G S ATGACGTGGCAGACCGCAGAAATCTAACTCCCY
41670 T A S CAAACGGGAGTTAGATTTCTCCATTTGATTCCAGGGGGCAGAACTAACGGGAATTTCACA
41670 T G S CAAACGGGAGTTAGATTTCTCCGTTTGATTCCAGGGGGCAGAACTAACGGGAATTTCACA
41670 IS [AG] CTTTGGGATACAATGTGTATTTAGCCTGATTTAAAACACAAACGGGAGTTAGATTTCTCC[AG]TTTGATTCCAGGGGGCAGAACTAACGGGAATTTCACAATAAGTGGGAATTTCACAATAAG
41672 I A CAGACATGCCACAGGCCACAGGGCT
41672 P A A CGCGCCGAGGAGTACCCCATAGGGCY
41672 P G A ATGACGTGGCAGACGGTACCCCATAGGGCY
41672 T A A TTGTGCCCTATGGGGTACTGCCCTGTGGCCTGTGGCATGTCTGGT
41672 T G A TTGTGCCCTATGGGGTACCGCCCTGTGGCCTGTGGCATGTCTGGT
41672 IS [AG] CCTTCTGCCTTATCCCAGCTTCTCTTCACTTCCAACCAGACATGCCACAGGCCACAGGGC[AG]GTACCCCATAGGGCACAATGCCCACTGAAGACAGGGATCCCCTCACCCCAGAAGAAGGCA
41674 I A CTGAGTGATTACAGGGCAAGGCCACAGAGCT
41674 P G A ATGACGTGGCAGACGGCAGGAAGTTGTAAGTGY
41674 P A A CGCGCCGAGGAGCAGGAAGTTGTAAGTGY
41674 T G A CCTGCACTTACAACTTCCTGCCGCTCTGTGGCCTTGCCCTGTAATCACTCAGTG
41674 T A A CCTGCACTTACAACTTCCTGCTGCTCTGTGGCCTTGCCCTGTAATCACTCAGTG
41674 IS [GA] TCTGGGACTTAGTCAGGCTAGCTAAGGGCACTGAGTGATTACAGGGCAAGGCCACAGAGC[GA]GCAGGAAGTTGTAAGTGCAGGGGCCAGCACAGTCTGAGTGGAGAGCATGATGGCACTC SARM
41675 I A GTGAGCACAGCTCCCGGGACGCT
41675 P A A CGCGCCGAGGAGCCTCCCATGGGY
41675 P G A ATGACGTGGCAGACGGCCTCCCATGGGY
41675 T A A CCAGCCCATGGGAGGCTGCGTCCCGGAGCTGTGCTCACCA
41675 T G A CCAGCCCATGGGAGGCCGCGTCCCGGAGCTGTGCTCACCA
41675 IS [AG] TCTCTGGAGATGTGCAGGGAAGGGGCAGTGGAGCCATGGTGAGCACAGCTCCCGGGACGC[AG]GCCTCCCATGGGCTGGAGGCTCTGAGCCCTCCTCATCTGTTCTGCTTAGGCAGGTTCCC
41676 I S TGTGTGACTGTGTACATAATTGCGGGGCT
41676 P C S ATGACGTGGCAGACGTGATTTTTGTATACACATGCAY
41676 P T S CGGGCCGAGGATGATTTTTGTATACACATGCATY
41676 T C S CTGCATGCATGTGTATACAAAAATCACGCCCCGCAATTATGTACACAGTCACACATA
41676 T T S CTGCATGCATGTGTATACAAAAATCATGCCCCGCAATTATGTACACAGTCACACATA
41676 IS [CT] GTGTGCTTCTACACAAGATAGTTTGTGTGCCTGTCTGCATGCATGTGTATACAAAAATCA[CT]GCCCCGCAATTATGTACACAGTCACACATATCAATCTCTTAGTAAAATGACAAGTCTGGG
41681 I A GGTGAGGACCGCTGGTACGCAGCT
41681 P G A ATGACGTGGCAGACGTCCCTTGCCAAGCAY
41681 P A A CGCGCCGAGGATCCCTTGCCAAGCAAT
41681 T G A GGCATTCCTTGGCAAGGGACGCTGCGTACCAGCGGTCCTCACCGC
41681 T A A GGCATTCCTTGGCAAGGGATGCTGCGTACCAGCGGTCCTCACCGC
41681 IS [GA] AAGCGACAACATGCATCACAGGAGCCATGTGAGATGCGGTGAGGACCGCTGGTACGCAGC[GA]TCCCTTGCCAAGGAATGCCTCACAGCCATCCGAGAATGACAGGGACGAAACATGAGGACC PRO0659
41683 I A CAAGGCTTTGGTTCCTGGGGTGTCATTTTGAAAAATAATTTACAT
41683 P A A CGCGCCGAGGACATTTCAGACTTCACAATCCY
41683 P G A ATGACGTGGCAGACGCATTTCAGACTTCACAATCY
41683 T A A ATAAAGATTGTGAAGTCTGAAATGTTGTAAATTATTTTTCAAAATGACACCCAGGAACCAAAGCCTTGCA

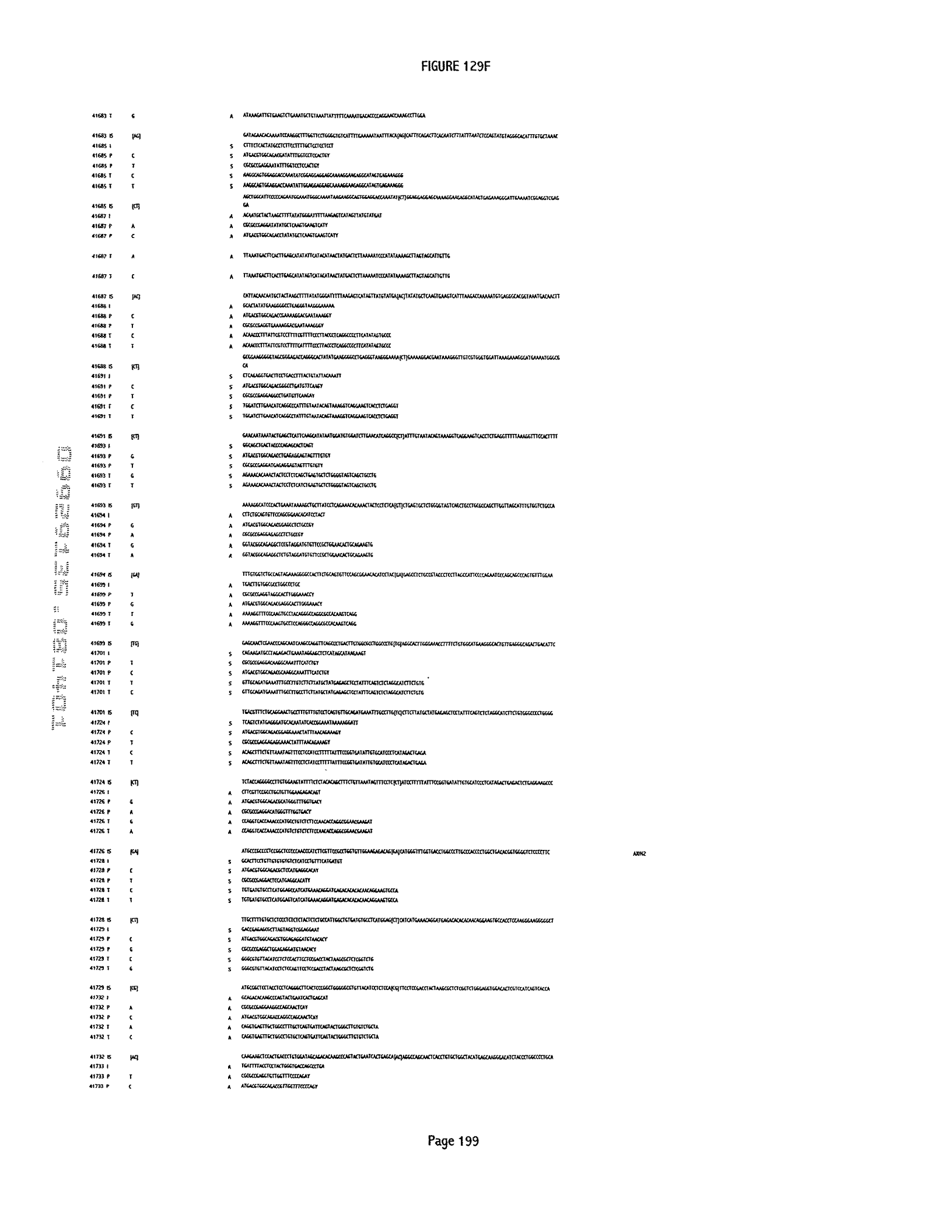

41683 T G A ATAAAGATTGTGAAGTCTGAAATGCTGTAAATTATTTTTCAAAATGACACCCCAGGAACCAAAGCCTTGGA
41683 IS [AG] GATAGAACACAAAATCCAAGGCTTTGGTTCCTGGGGTGTCATTTTGAAAAATAATTTACA[AG]CATTTCAGACTTCACAATCTTTATTTAATCTCCAGTATGTAGGGCACATTTGTGCTAAAC
41685 I S CTTTCTCACTATGCCTCTTCCTTTTGCTCCTCCTCCT
41685 P C S ATGACGTGGCAGACGATATTTGGTCCTCCACTGY
41685 P T S CGCGCCGAGGAATATTTGGTCCTCCACTGY
41685 T C S AAGGCAGTGGAGGACCCAAATATCGGAGCAGGAGCAAAGGAAGAGGCATAGTCAGAAAGGG
41685 T T S AAGGCAGTGGAGGACCAAATATTGGAGGAGGAGCAAAGGAAGAGGCATAGTCAGAAAGGG
41685 IS [CT] AGCTGGCATTCCCCCAGAATGGAAATGGGCAAAATAAGAAGGCAGTGGAGCAGCAAATAT[CT]GGAGGAGGAGCAAAGGAAGCAGCATAGTGAGAAAGGCATTGAAAATCGGAGGTCGAG GA
41687 I A A ACAATGCTACTAAGCTTTTATATGGGAYTTTTAAGAGTCATAGTTATGTATGAT
41687 P A A CGCGCCGAGGATATATGCTCAAGTGAAGTCATY
41687 P C A ATGACGTGGCAGACCTATATGCTCAAGTGAAGTCATY
41687 T A A TTAAATGACTTCACTTGAGCATATATTCATACATAACTATGACTCTTAAAAATCCCATATAAAAGCTTAGTAGCATTGTTG
41687 T C A TTAAATGACTTCACTTGAGCATATAGTCATACATAACTATGACTCTTAAAAATCCCATATAAAAGCTTAGTAGCATTGTTG
41687 IS [AC] CATTACAACAAATGCTACTAAGCTTTTATATGGGATTTTTAAGAGTCATAGTTATGTATGA[AC]TATATGCTCAAGTGAAGTCATTTAAGACCAAAAATGTGAGGGCACGGTAAATGACAACTT
41688 I A GCACTATATGAAGGGGCCTGAGGGTAAGGGAAAAA
41688 P C A ATGACGTGGCAGACCCAAAAGGACGAATAAAGGY
41688 P T A CGCGCCGAGGTGAAAAGGACGAATAAAGGY
41688 T C A ACAACCCTTTATTCGTCCTTTCGTTTTCCCTTACCCTCAGGCCCCTTCATATAGTGCCC
41688 T T A ACAACCCTTTATTCGTCCTTTTCATTTTCCCTTACCCTCAGGCCCCTTCATATAGTGCCC
41688 IS [CT] GCCGAAGGGGGTAGCGGGAGACCAGGGCACTATATGAAGGGGCCTGAGGGTAAGGGAAAA[CT]GAAAAGGACGAATAAAGGGTTGTCGTGGGTGGATTAAAGAAAGGGATGAAAATGGGCG CA
41691 I S CTCAGAGGTGACTTCCTGACCTTTACTGTATTACAAATT
41691 P C S ATGACGTGGCAGACGGGCCTGATGTTCAAGY
41691 P T S CGCGCCGAGGAGGCCTGATGTTCAAGAY
41691 T C S TGGATCTTGAACATCAGGCCCATTTGTAATACAGTAAAGGTCAGGAAGTCACCTCTGAGGT
41691 T T S TGGATCTTGAACATCAGGCCTATTTGTAATACAGTAAAGGTCAGGAAGTCACCTCTGAGGT
41691 IS [CT] GAACAATAAATACTGAGCTCATTCAAGCATATAATGGATGTGGATCTTGAACATCAGGCC[CT]ATTTGTAATACAGTAAAGGTCAGGAAGTCACCTCTGAGGTTTTTAAAGGTTTCCACTTTT
41693 I S GGCAGCTGACTACCCCAGAGCACTCAGT
41693 P G S ATGACGTGGCAGACCTGAGAGGAGTAGTTTGTGY
41693 P T S CGCGCCGAGGATGAGAGGAGTAGTTTGTGTY
41693 T G S AGAAACACAAACTACTCCTCTCATCTGAGTGCTCTGGGGTAGTCAGCTGCCTG
41693 T T S AGAAACACAAACTACTCCTCTCATCTGAGTGCTCTGGGGTAGTCAGCTGCCTG
41693 IS [GT] AAAAGGCATCCCACTGAAATAAAAGCTGCTTATCCTCAGAAACACAAACTACTCCTCTCA[GT]CTGAGTGCTCTGGGGTAGTCAGCTGCCTGCGGCCAGCTTGGTTAGCATTTGTGGTCTGCCA
41694 I A CTTCTGCAGTGTTCCAGCGGAACACATCCTACT
41694 P G A ATGACGTGGCAGACGGAGCCTCTGCCGY
41694 P A A CGCGCCGAGGAGAGCCCTCTGCCGY
41694 T G A GGTACGGCAGAGGCTCCGTAGGATGTGTTCCGCTGGAACACTGCAGAAGTG
41694 T A A GGTACGGCAGAGGCTCTGTAGGATGTGTTCCGCTGGAACACTGCAGAAGTG
41694 IS [GA] TTTGTGGTCTGCCAGTAGAAAGGGGCCACTTCTGCAGTGTTCCAGCGGAACACATCCTAC[GA]GAGCCTCTGCCGTACCCTCCTTAGCCATTCCCCAGAATCCCAGCAGCCCAGTGTTGGAA
41699 I A TGACTTGTGGCGCCTGGCCTGC
41699 P T A CGCGCCGAGGTAGGCACTTGGGAAACCY
41699 P G A ATGACGTGGCAGACGAGGCACTTGGGAAACY
41699 T T A AAAAGGTTTCCCAAGTGCCTACAGGGCCAGGGCGCCACAAGTCAGG
41699 T G A AAAAGGTTTCCCAAGTGCCTCCAGGGCCAGGGCGCCACAAGTCAGG
41699 IS [TG] GAGCAACTCGAACCCAGCAATCAAGCCAGGTTCAGCCCTGACTTGTGGCGCCTGGCCCTG[TG]AGCACTTGGGAAACCTTTTCTGTGGCATGAAGGGCACTGTTGAAGGCAGACTGACATTC
41701 I S CAGAAGATGCCTAGAGACTCAAATAGGAGCTCTCATAGCATAAGAAGT
41701 P T S CGCGCCGAGGACAAGGCAAATTTCATCTGY
41701 P C S ATGACGTGGCAGACGAGGCAAATTTCATCTGY
41701 T T S GTTGCAGATGAAATTTGCCTTGTCTTCTTATGCTATGAGAGCTCCTATTTCAGTCTCTAGGCATCTTCTGTG
41701 T C S GTTGCAGATGAAATTTGCCTTGCCTTCTTATGCTATGAGAGCTCCTATTTCAGTCTCTAGGCATCTTCTGTG
41701 IS [TC] TGACGTTTCTGCAGGAACTGCCTTTGTTTGTCCTCAGTGTTGCAGATGAAATTTGCCTTG[TC]CTTCTTATGCTATGAGAGCTCCTATTTCAGTCTCTAGGCATCTTCTGTGGGCCCCTGGGG
41724 I S TCAGTCTATGAGGGATGCACAATATCACCGCAAATAAAAGGATT
41724 P C S ATGACGTGGCAGACGGAGGAAACTATTTAACAGAAAGY
41724 P T S CGCGCCGAGGAGAGGAAACTATTTAACAGAAAGY
41724 T C S ACAGCTTTCTGTTAAATAGTTTCCTCCATCCTTTTTATTTCCGGTGATATTGTGCATCCCTCATAGACTGAGA
41724 T T S ACAGCTTTCTGTTAAATAGTTTCCTCTATCCTTTTTATTTCCGGTGATATTGTGCATCCCTCATAGACTGAGA
41724 IS [CT] TCTACCAGGGGGCCTTGTGGAAGTATTTCTCTACACAGCTTTCTGTTAAATAGTTTCCTC[CT]ATCCTTTTTATTTCCGGTGATATTGTGCATCCCTCATAGACTGAGACTCTGAGGAAGCCC
41726 I A CTTCGTTCCGCCTGGTGTTGGAAGAGACAGT
41726 P G A ATGACGTGGCAGACGCATGGGTTTGGTGACY
41726 P A A CGCGCCGAGGACATGGGTTTGGTGACT
41726 T G A CCAGGTCACCAAACCCATGCCTGTCTCTTCCAACACCAGGCGGAACGAAGAT
41726 T A A CCAGGTCACCAAACCCATGTCTGTCTCTTCCAACACCAGGCGGAACGAAGAT
41726 IS [GA] ATGCCCCCCCCTCCGGCTCCCCCAACCCATCTTCGTTCCGCCTGGTGTTGGAAGAGACAG[GA]CATGGGTTTGGTGACCTGGCCCTTGCCCACCCCTGGCTGAGACGGTGGGGTCTCCCCTTC
41728 I S GCACTTCCTGTTGTGTGTGTCTCATCCTGTTTCATGATGT
41728 P C S ATGACGTGGCAGACGCTCCATGAGGCACAY
41728 P T S CGCGCCGAGGACTCCATGAGGCACATY
41728 T C S TGTGATGTGCCTCATGGAGCCATCATGAAACAGGATGAGACACACACACAGGAAGTGCCA
41728 T T S TGTGATGTGCCTCATGGAGTCATCATGAAACAGGATGAGACACACACACAGGAAGTGCCA
41728 IS [CT] TTGCTTTTGTGCTCTCCCTCTCTCTACTCTCTGCCATTGGCTGTGATGTGCCTCATGGAG[CT]CATCATGAAACAGGATGAGACACACACACAGGAAGTGCCACCTCCAAGGGAAGGGGGCT
41729 I S GACCGACAGCGCTTAGTAGGTCGGAGGAAT
41729 P C S ATGACGTGGCAGACGTGGAGAGGATGTAACACY
41729 P G S CGCGCCGAGGCTGGAGAGGATGTAACACY
41729 T C S GGGCGTGTTACATCCTCTCCAACTTCCTCCGACCTACTAAGCGCTCTCGGTCTG
41729 T G S GGACGTGTTACATCCTCTCCAGTTCCTCCGACCTACTAAGCGCTCTCGGTCTG
41729 IS [CG] ATGCGGCTCCTACCTCCTCAGGGCTTCACTCCCGGCTGGGGGCGTGTTACATCCTCTCCA[CG]TTCCTCCGACCTACTAAGCGCTCTCGGTCTGGGAGGTGGACACTCGTCCATCAGTCACCA
41732 I A GCAGACACAAGCCCAGTACTGAATCACTGAGCAT
41732 P A A CGCGCCGAGGAAGGCCAGCAACTCAY
41732 P C A ATGACGTGGCAGACAGGCCAGCAACTCAY
41732 T A A CAGGTGAGTTGCTGGCCTTGCTCAGTGATTCAGTACTGGGCTTGTGTCTGCTA
41732 T C A CAGGTGAGTTGCTGGCCTGTGCTCAGTGATTCAGTACTGGGCTTGTGTCTGCTA
41732 IS [AC] CAAGAAGCTCCACTGACCCTGTGGATAGCAGACACAAGCCCAGTACTGAATCACTGAGCA[AC]AGGCCAGCAACTCACCTGTGCTGGCTACATGAGCAAGGGACATCTACCCTGGCCCCTGCA
41733 I A TGATTTTACCTCCTACTGGGTGACCAGCCCTGA
41733 P T A CGCGCCGAGCTGTTGGTTTCCCCAGAT
41733 P C A ATGACGTGGCAGACCGTTGGTTTCCCCAGY

FIGURE 129F

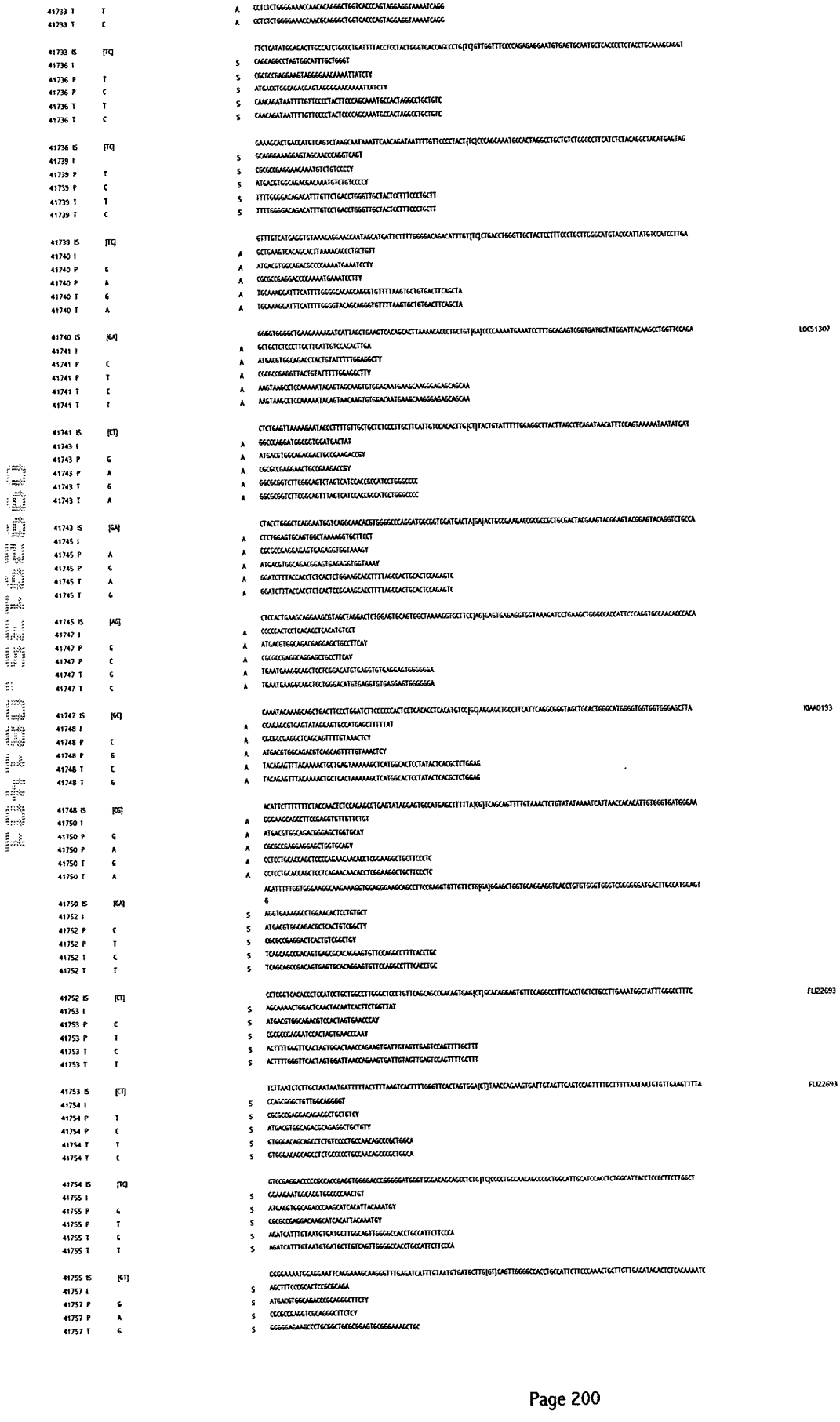
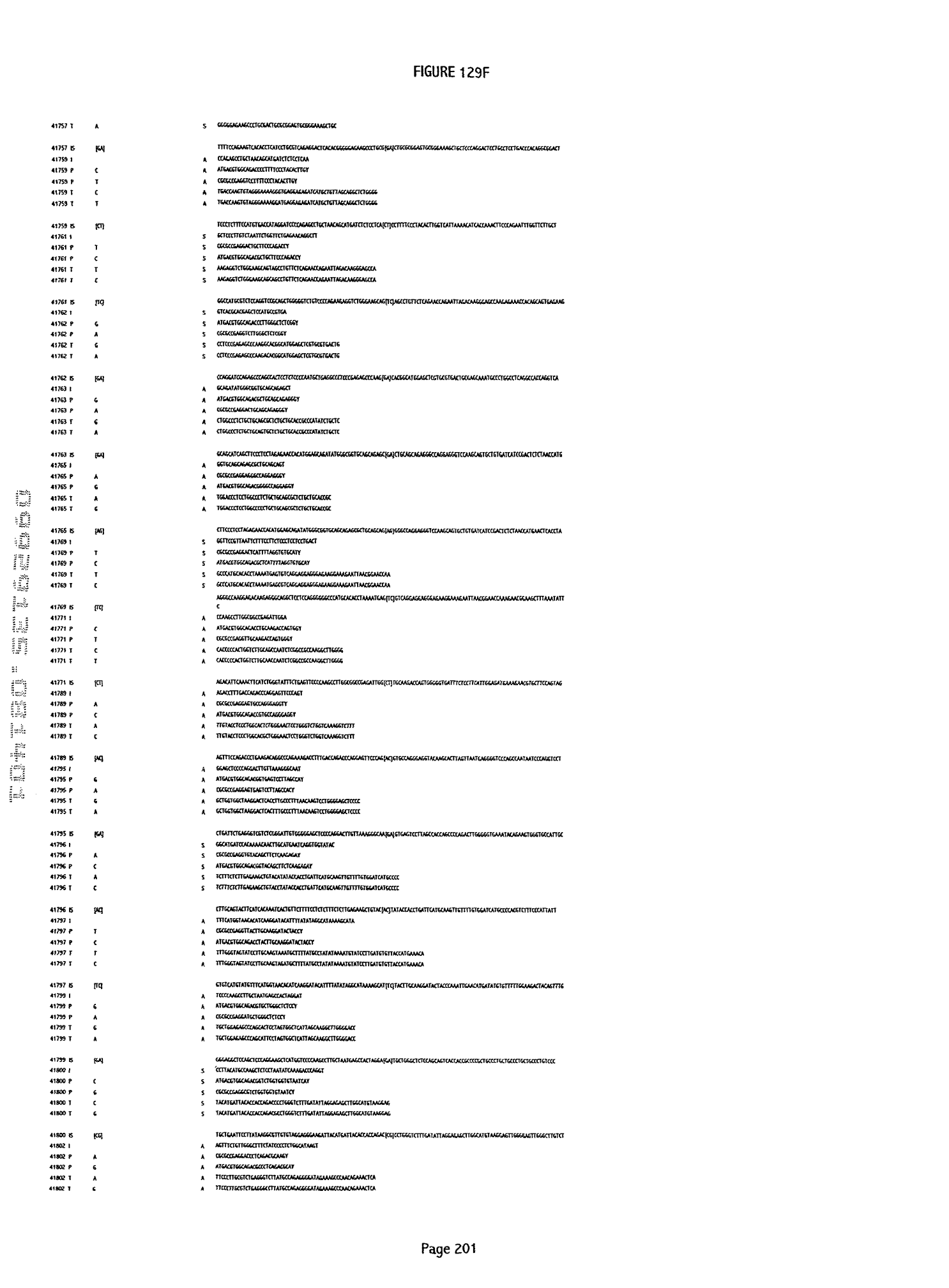

41733 T T A CCTCTCTGGGGAAACCAACACAGGGCTGGTCACCCAGTAGGAGGTAAAATCAGG
41733 T C A CCTCTCTGGGGAAACCAACGCAGGGCTGGTCACCCAGTAGGAGGTAAAATCAGG
41733 IS [TC] TTGTCATATGGAGACTTGCCATCTGCCCTGATTTTACCTCCTACTGGGTCACCAGCCCTG[TC]GTTGGTTTCCCCAGAGAGGAATGTGAGTGCAATGCTCACCCCTCTACCTGCAAAGCAGGT
41736 I S CAGCAGGCCTAGTGGCATTTGCTGGGT
41736 P T S CGCGCCGAGGAAGTAGGGGAACAAAATTATCTT
41736 P C S ATGACGTGGCAGACGAGTAGGGGAACAAAATTATCTT
41736 T T S CAACAGATAATTTTGTTCCCCTACTTCCCAGCAAATGCCACTAGGCCTGCTGTC
41736 T C S CAACAGATAATTTTGTTCCCCTACTCCCCAGCAAATGCCACTAGGCCTGCTGTC
41736 IS [TC] GAAAGCACTGACCATGTCAGTCTAAGCAATAAATTCAACAGATAATTTTGTTCCCCTACT[TC]CCCAGCAAATGCCACTAGGCCTGCTGTCTGGCCCTTCATCTCTACAGGCTACATGAGTAG
41739 I S GCAGGCAAAGGAGTAGCAACCCAGGTCAGT
41739 P T S CGCGCCGAGGAACAAATGTCTGTCCCCY
41739 P C S ATGACGTGGCAGACGACAAATGTCTGTCCCCY
41739 T T S TTTTGGGGACAGACATTTGTTCTGACCTGGGTTGCTACTCCTTTCCCTGCTT
41739 T C S TTTTGGGGACAGACATTTGTCCTGACCTGGGTTGCTACTCCTTTCCCTGCTT
41739 IS [TC] GTTTGTCATGAGGTGTAAACAGGAACCAATAGCATGATTCTTTTGGGGACAGACATTTG[TC]CTGACCTGGGTTGCTACTCCTTTCCCTGCTTGGGCATGTACCCATTATGTCCATCCTTGA
41740 I A GCTGAAGTCACAGCAGTTAAAACACCCTGCTGTT
41740 P G A ATGACGTGGCAGACGCCCCAAAATGAAATCCTY
41740 P A A CGCGCCGAGGACCCCAAAATGAAATCCTTY
41740 T G A TGCAAAGGATTTCATTTTGGGGCACAGCAGGGTGTTTTAAGTGCTGTGACTTCAGCTA
41740 T A A TGCAAAGGATTTCATTTTGGGGTACAGCAGGGTGTTTTAAGTGCTGTGACTTCAGCTA
41740 IS [GA] GGGGTGGGGCTGAAGAAAAGATCATTAGCTGAAGTCACAGCACTTAAAACACCCTGCTGT[GA]CCCCAAAATGAAATCCTTTGCAGAGTCGGTGATGCTATGGATTACAAGCCTGGTTCCAGA LOCS1307
41741 I A GCTGCTCTCCCTTGCTTCATTGTCCACACTTGA
41741 P C A ATGACGTGGCAGACCTACTGTATTTTTGGAGGCTY
41741 P T A CGCGCCGAGGTTACTGTATTTTTGGAGGCTTY
41741 T C A AAGTAAGCCTCCAAAAATACAGTAACAAGTGTGGACAATGAAGCAAGGGAGAGCAGCAA
41741 T T A AAGTAAGCCTCCAAAAATACAGTAACAAGTGTGGACAATGAAGCAAGGGAGAGCAGCAA
41741 IS [CT] CTCTGAGTTAAAAGAATACCCTTTTGTTGCTGCTCCCTTGCTTCATTGTCCACACTT G[CT]TACTGTATTTTTGGAGGCTTACTTAGCCTCAGATAACATTTCCAGTAAAAATAATATGAT
41743 I A GGCCCAGGATGGCGGTGGATGACTAT
41743 P G A ATGACGTGGCAGACGACTGCCGAAGACCGY
41743 P A A CGCGCCGAGGAACTGCCGAAGACCGY
41743 T G A GGCGCGGTCTTCGGCAGTCTAGTCATCCACCGCCATCCTGGGCCCC
41743 T A A GGCGCGGTCTTCGGCAGTTTAGTCATCCACCGCCATCCTGGGCCCC
41743 IS [GA] CTACCTGGGCTCAGGAATGCTCAGGCAACACGTGGGGCCCAGGATGGCGGTGGATGACTA[GA]ACTGCCGAAGACCGCGCCGCCTGCGACTACGAAGTACGGAGTACGGAGTACAGGTCTGCCA
41745 I A CTCTGGAGTGCAGTGGCTAAAAGGTGCTTCCT
41745 P A A CGCGCCGAGGAAGAGTGAGAGGTGGTAAAGY
41745 P G A ATGACGTGGCAGACGGAGTGAGAGGTGGTAAAY
41745 T A A GGATCTTTACCACCTCTCACTCTGGAAGCAACTTTTAGCCACTGCACTCCAGAGTC
41745 T G A GGATCTTTACCACCTCTCACTCGGAAGCAACTTTTAGCCACTGCACTCCAGAGTC
41745 IS [AG] CTCCACTGAAGCAGGAAGCGTAGCTAGGACTCTGGAGTGCAGTGGCTAAAAGGTGCTTCC[AG]GAGTGAGAGGTGGTAAAGATCCTGAAGCTGGGCCACCATTCCCAGGTGCCAACACCCACA
41747 I A CCCCCACTCCTCACACCTCACATGTCCT
41747 P G A ATGACGTGGCAGACGAGGAGCTGCCTTCAY
41747 P C A CGCGCCGAGGCAGGAGCTGCCTTCAY
41747 T G A TGAATGAAGGCAGCTCCTGGGACATGTGAGGTGTGAGGAGTGGGGGGA
41747 T C A TGAATGAAGGCAGCTCCTGGGACATGTGAGGTGTGAGGAGTGGGGGGA
41747 IS [GC] CAAATACAAAGCAGCTGACTTCCCTGGATCTCCCCCCACTCCTCACACCTCACATGTCC[GC]AGGAGCTGCCTTCATTCAGGCGGGTAGCTGCACTGGGCATGGGGTGGTGGTGGGAGCTTA KIAA0193
41748 I A CCAGAGCGTGAGTATAGGAGTGCCATGAGCTTTTTAT
41748 P C A CGCGCCGAGGCTCAGCAGTTTTGTAAACTCY
41748 P G A ATGACGTGGCAGACGTCAGCAGTTTTGTAAACTCY
41748 T C A TACAGAGTTTACAAAACTGCTGAGTAAAAAGCTCATGGCACTCCTATACTCACGCTCTGGAG
41748 T G A TACAGAGTTTACAAAACTGCTGACTAAAAAGCTCATGGCACTCCTATACTCACGCTCTGGAG
41748 IS [CG] ACATTCTTTTTTCTACCAACTCTCCAGAGCGTGAGTATAGGAGTGCCATGAGCTTTTTA[CG]TCAGCAGTTTTGTAAACTCTGTATATAAAATCATTAACCACACATTGTGGGTGATGGGAA
41750 I A GGGAAGCAGGCTTCCGAGGTGTTGTTCTGT
41750 P G A ATGACGTGGCAGACGGGAGCTGGTGCAY
41750 P A A CGCGCCCAGGAGGAAGCTGGTGCAGY
41750 T G A CCTCCTGCACCAGCTCCCCAGAACAACACCTGGGAAGGCTGCTTCCCTC
41750 T A A CCTCCTGCACCAGCTCCTCAGAACAACACCTGGGAAGGCTGCTTCCCTC
41750 IS [GA] ACATTTTTGGTGGGAAGGCAAGAAAGGTGGAGGGAAGCAGCCTTCCGAGGTGTTGTTCTG[GA]GGAGCTGGTGCAGGAGGTCACCTGTGTGGGTGGGTCGGGGGGATGACTTGCCATGGAGT
41750 IS [GA] G
41752 I S AGGTGAAAGGCCTGGAACACTCCTGTGCT
41752 P C S ATGACGTGGCAGACGCTCACTGTCGGCTY
41752 P T S CGCGCCGAGGACTCACTGTCGGCTGY
41752 T C S TCAGCAGCCGACAGTGAGCGCACAGGAGTGTTCCAGGCCTTTCACCTGC
41752 T T S TCAGCAGCCGACAGTGAGTGCACAGGAGTGTTCCAGGCCTTTCACCTGC
41752 IS [CT] CCTCGATCACACCCTCCATCCTGCTGGCCTTGGGCTCCCTGTTCAGCAGCCGACAGTGAG[CT]GCACAGGAGTGTTCCAGGCCTTTCACCTGCTCTGCCTTGAAATGGCTATTTGGGCCTTTC FLJ22693
41753 I S AGCAAAACTGGACTCAACTACAATCACTTCTGGTTAT
41753 P C S ATGACGTGGCAGACGTCCACTAGTGAACCCAY
41753 P T S CGCGCCGAGGATCCACTAGTGAACCCAY
41753 T C S ACTTTTGGGTTCACTAGTGGACTAACCAGAAGTGATTGTAGTTGAGTCCAGTTTTGCTTT
41753 T T S ACTTTTGGGTTCACTAGTGGATTAACCAGAAGTGATTGTAGTTGAGTCCAGTTTTGCTTT
41753 IS [CT] TCTTAATCTCTTGCTAATAATGATTTTTACTTTAAGTCACTTTTGGGTTCACTAGTGGA[CT]TAACCAGAAGTGATTGTAGTTGAGTCCAGTTTTGCTTTTTAATAATGTGTTGAAGTTTTA FLJ22693
41754 I S CCAGCGGGCTGTTGGCAGGGGT
41754 P T S CGCGCCGAGGACAGAGAGCTGCTGTCY
41754 P C S ATGACGTGGCAGACGCAGAGGCTGCTGTY
41754 T T S GTGGGACAGCAGCCTCTGTCCCCCTGCCAACAGCCCGCTGGCA
41754 T C S GTGGGACAGCAGCCTCTGCCCCCTGCCAACAGCCCGCTGGCA
41754 IS [TC] GTCCGAGGAGCCCCCGCCACCGAGGTGGGGACCCGGGGGATGGGTGGGACAGCAGCCTCTG[TC]CCCCTGCCAACAGCCCGCTGGCATTGCATCCACCTCTGGCATTACCTCCCCTTCTTGGCT
41755 I S GGAAGAATGGCAGGTGGCCCCAACTGT
41755 P G S ATGAGTGGCAGACCCAAGCATCACATTACAAATGY
41755 P T S CGCGCCGAGGACAAGCATCACATTACAAATGY
41755 T G S AGATCATTTGTAATGTGATGCTTGGCAGTTGGGGCCACCTGCCATTCTTCCCA
41755 T T S AGATCATTTGTAATGTGATGCTTGTCAGTTGGGGCCACCTGCCATTCTTCCCA
41755 IS [GT] GGGGAAAATGGAGGAATTCAGGAAAGCAAGGGTTTGAGATCATTTGTAATGTGATGCTTG[GT]CAGTTGGGGCCACCTGCCATTCTTCCCAAACTGCTTGTTGACATAGACTCTCACAAAATC
41757 I S AGCTTTCCCGCACTCCGCGCAGA
41757 P G S ATGAGTGGCAGACCCGCAGGGCTTCTCY
41757 P A S CGCGCCGAGGTCGCAGGGCTTCTCY
41757 T G S GGGGGACAGAGCCCTGCGGCTGCGCGGAGTGCGGGAAAGCTGC

FIGURE 129F



Confidential Treatment Requested

FIGURE 129F

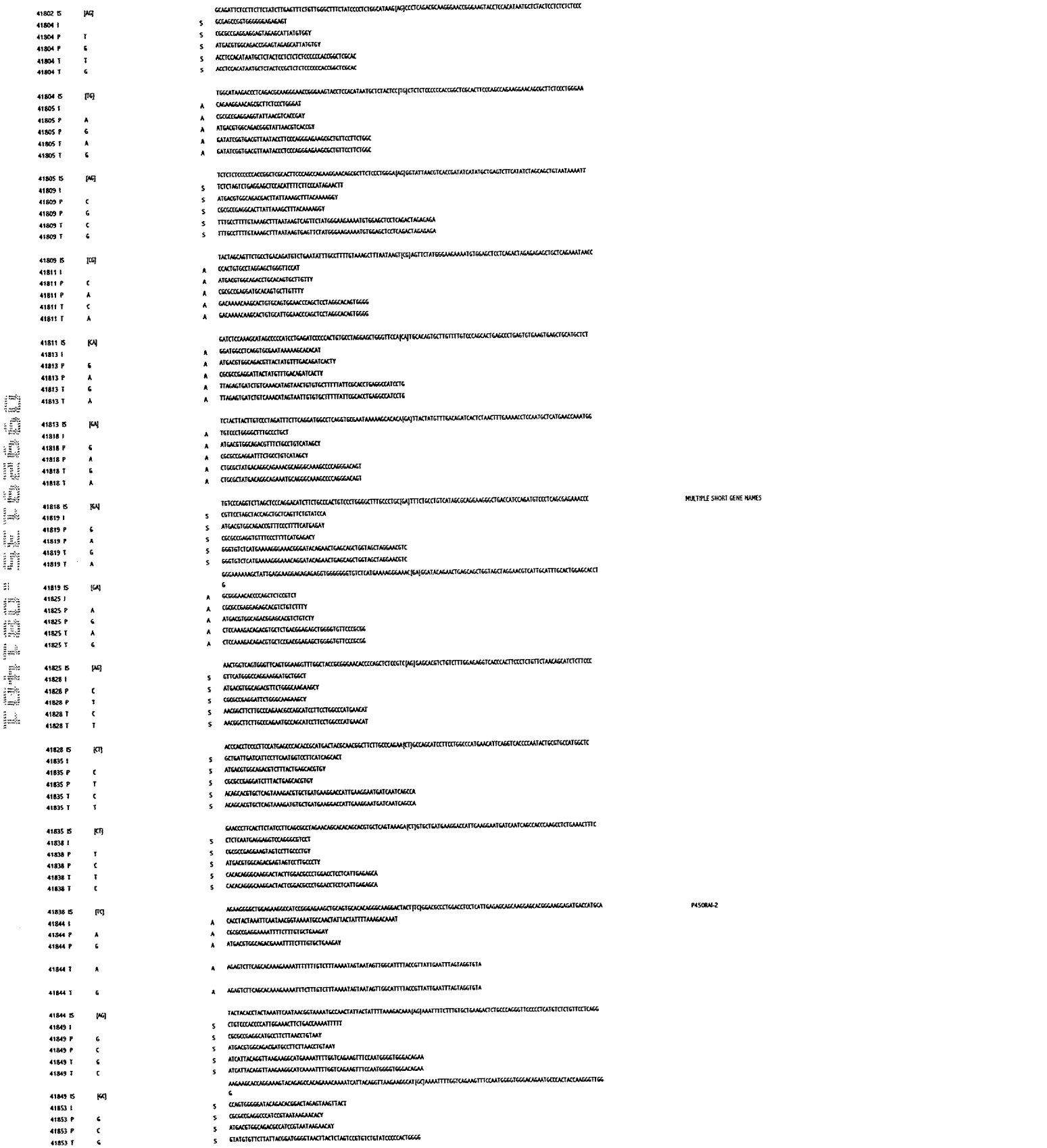


FIGURE 129F

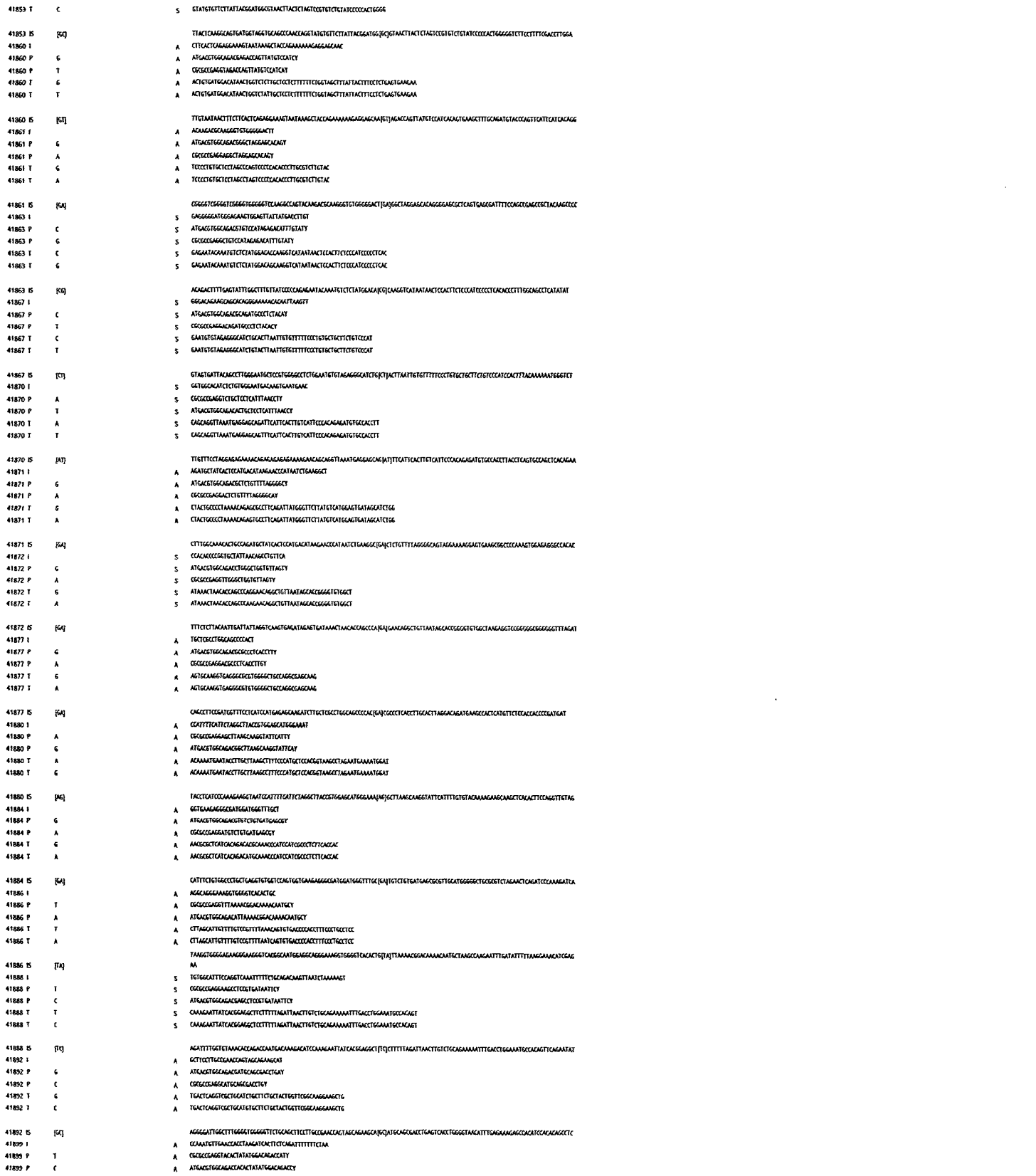


FIGURE 129F

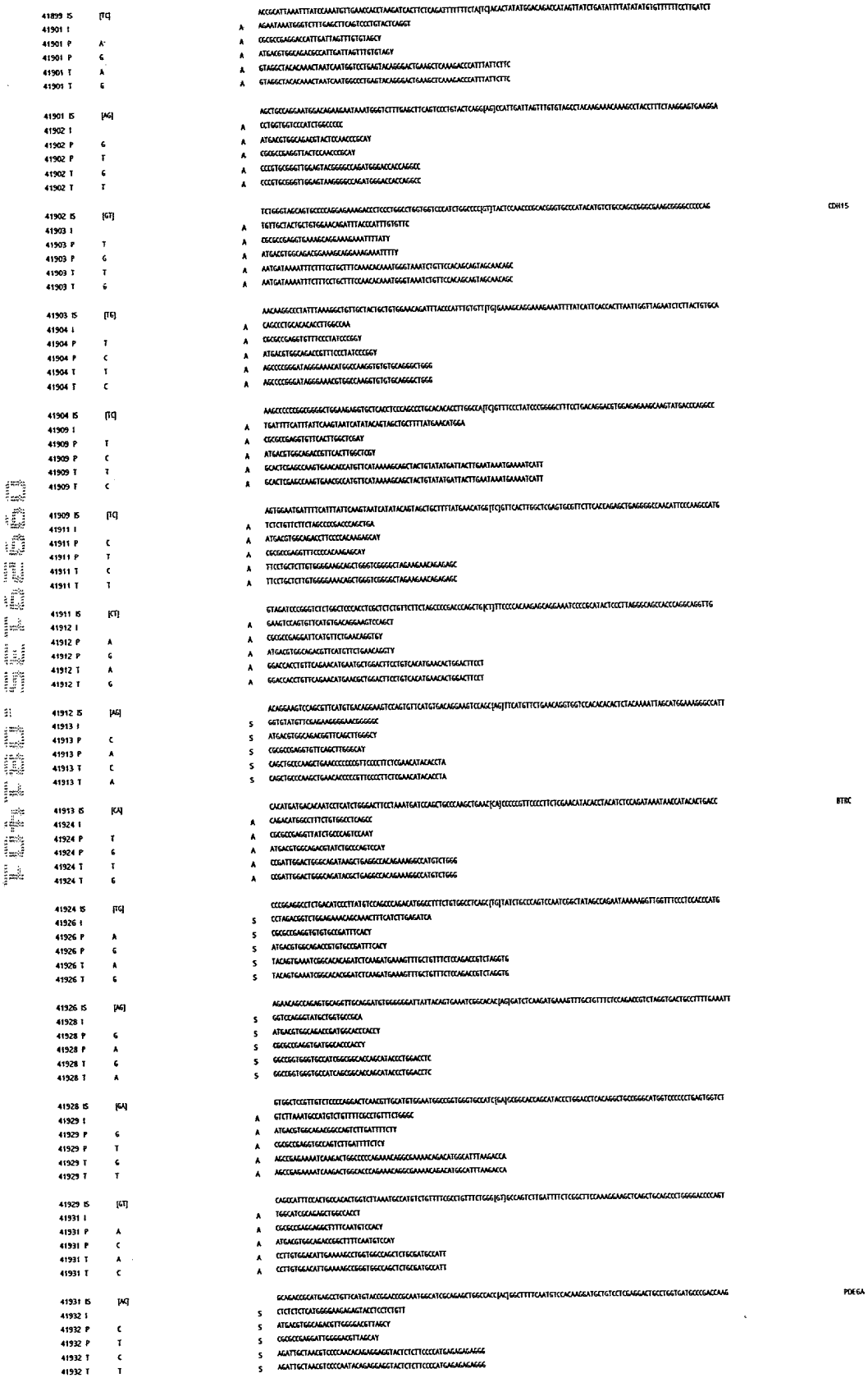


FIGURE 129F

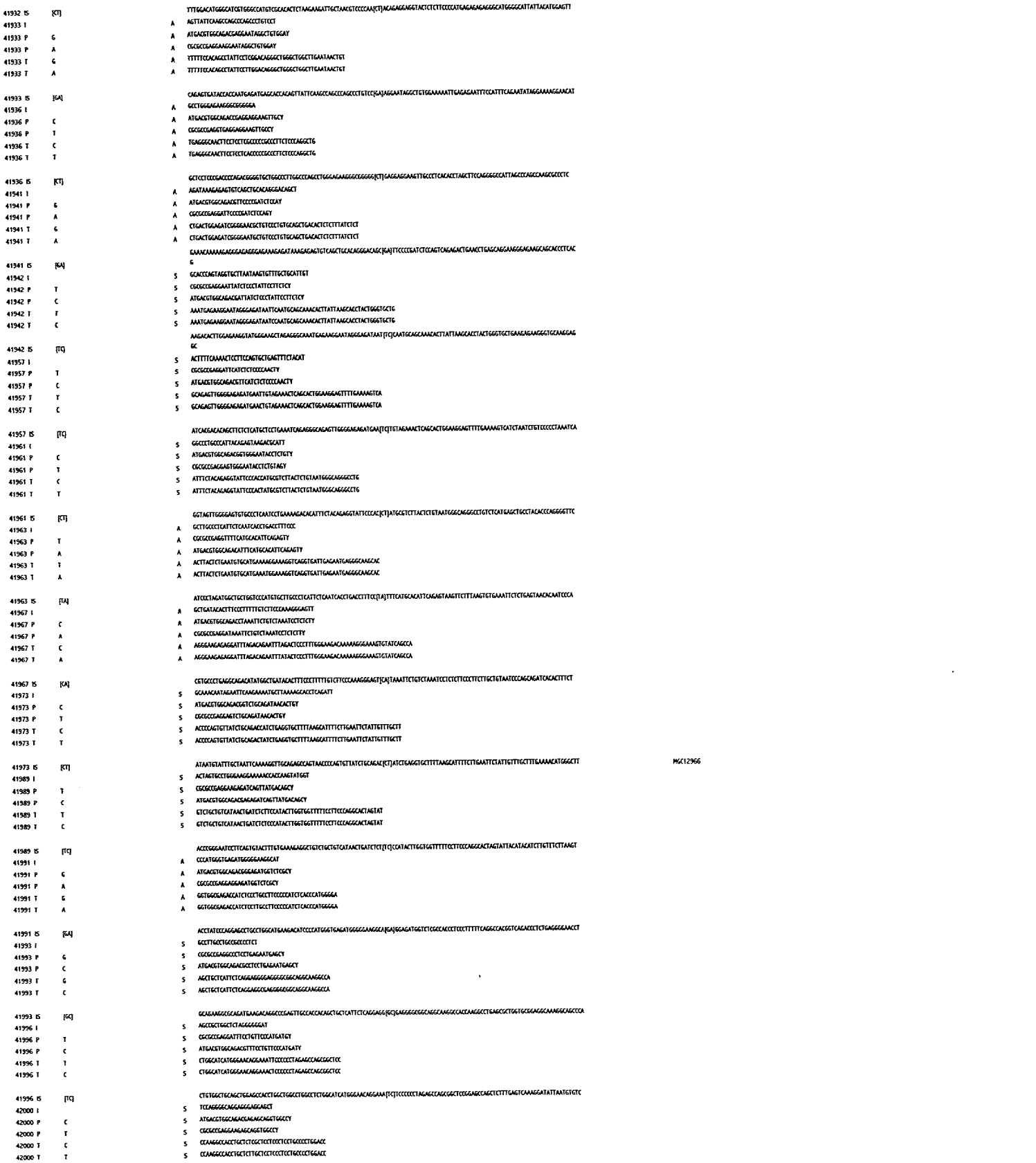




FIGURE 129F

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42090 P   T                S  CGCGCCGAGGATTTCCATTCCTGGAGTCTY

42090 T   C                S  GCTGAGACTCCAGGAATGGAAACGAGAGGTATAATTTGTTTATAAGTCAGACAGGTTAGGAGTGAACAGATGGCTC

42090 T   T                S  GCTGAGACTCCAGGAATGGAAATGAGAGGTATAATTTGTTTATAAGTCAGACAGGTTAGGAGTGAACAGATGGCTC

42090 IS  [CT]                CTTGGTAGAGGTCTATGGGATATTCCCATTCAAATCAAGCTGAGACTCCAGGAATGGAAA[CT]GAGAGGTATAATTTGTTTATAAGTCAGACAGGTTAGGAGTGAACAGATGGCTCCCAAATT
42091 I                    S  CATCCTTGGCCCAAAAGAGATGAAGCCCCTTACT
42091 P   T                S  CGCGCCGAGGATTAGAAGATGTTCAAGCTCTGY
42091 P   C                S  ATGACGTGGCAGACGTTAGAAGATGTTCAAGCTCTY
42091 T   T                S  TAAGCAGAGCTTGAACATCTTCTAATGTAAGGGGCTTCATCTCTTTTGGGCCAAGGATGTC
42091 T   C                S  TAAGCAGAGCTTGAACATCTTCTAACGTAAGGGGCTTCATCTCTTTTGGGCCAAGGATGTC

42091 IS  [TC]                CAGGTCACACCCCAGGGTATATGCATTGCCCACTTTAAGCAGAGCTTGAACATCTTCTAA[TC]GTAAGGGGCTTCATCTCTTTTGGGCCAAGGATGTCCCCTCTAGTCTCCAGCGTGGGGCCA
42092 I                    S  GTTCTACATGGCCTTCCGTAAGTTGGGTCCCT
42092 P   T                S  CGCGCCGAGGAGTGGGGAAAAGGGCTTY
42092 P   C                S  ATGACGTGGCAGACGGTGGGAAAAGGGCTY
42092 T   T                S  AAATAAGCCCTTTTCCCACTGGGACCCAACTTACGGAAGGCCATGTAGAACTC
42092 T   C                S  AAATAAGCCCTTTTCCCACCGGGACCCAACTTACGGAAGGCCATGTAGAACTC

42092 IS  [TC]                TCCAGGCACCCAACAGCATTTTGGTGCAGAAGCAGCTGCAGAAATAAGCCCTTTTCCCAC[TC]GGGACCCAACTTACGGAAGGCCATGTAGAACTGCCGGAGGGTCAGGGAGCTGTCACTGTT
42094 I                    A  GCACCCAGCCCACCCCAACACAA
42094 P   T                A  CGCGCCGAGGTGGCAGCCAGTTCTCY
42094 P   C                A  ATGACGTGGCAGACCGGCAGCCAGTTCTY
42094 T   T                A  AGGTGAGAACTGGCTGCCATGTGTTGGGGTGGGCTGGGTGCTG
42094 T   C                A  AGGTGAGAACTGGCTGCCGTGTGTTGGGGTGGGCTGGGTGCTG

42094 IS  [TC]                CACATGAACTTGGCCGTGATCCATGTTCTCAGATGCCAGCACCCAGCCCACCCCAACACA[TC]GGCAGCCAGTTCTCACCTCCACATCAAACAGCGTCGAGCCATAGCCAGGCCACTCCTTGA
42098 I                    S  AGGCAGCCAGCACCTCGCAGCT
42098 P   T                S  CGCGCCGAGGACAGGACAGACTGGGY
42098 P   C                S  ATGACGTGGCAGACGCAGGACAGACTGGGY
42098 T   T                S  GCTTCCCAGTCTGTCCTGTCGTGCGCAGGTGCTGGCTGCCTCC
42098 T   C                S  GCTTCCCAGTCTGTCCTGGGCTGCGAGGTGCTGGCTGCCTCC

42098 IS  [TC]                CCCCGCCGGCTTCCCGAGGCCGCCCACAGCTCCCTGACGGAGCGCTTCCCAGTCTGTCCTG[TC]GCTGCGAGGTGCTGGCTGCCTCCCACCCCAGACCCCTGGCCCTGTC
42099 I                    A  TCCTGCCCAGTCAGGTCCATCTGGCT
42099 P   G                A  ATGACGTGGCAGACGCACACCACGGAGCY
42099 P   C                A  CGCGCCGAGGCCACACCACGGAGCY
42099 T   G                A  GGTTGCTCCGTGGTGTGCGCCAGATGGACGTCACTGGGCAGGAGC
42099 T   C                A  GGTTGCTCCGTGGTGTGGGCCAGATGGACGTCACTGGGCAGGAGC

42099 IS  [GC]                ATCTCCTCCCCTACCACCAGGCCTTGGACACTTGCTCCTGCCCAGTCACGTCCATCTGGC[GC]CACACCACGGAGCAACCCTTCCTTAAGGCTCCTCTGAACCACCTGCAGGAACTGGATTCT
42105 I                    A  CCGCATGCTGAATTCCGTGCACAAGCCT
42105 P   A                A  CGCGCCGAGGAGAAAGAGCGGAGCGCY
42105 P   G                A  ATGACGTGGCAGACGGAAAGAGGGAGCGCY
42105 T   A                A  GTCCGCGCTCCCTCTTTCTGGCTTGTGCACGCAATTCAGCATGCGGAT
42105 T   G                A  GTCCGCGCTCCCTCTTTCCGGCTTGTGCACGCAATTCAGCATGCGGAT

42105 IS  [AG]                GATGCTGAGCGCAGCCTCACACATCACACCCATCCGCATGCTGAATTCCGTGCACAAGCC[AG]GAAAGAGGCAGGCGGCGGACATGAAGCTCCTCTCGTCTTCTGTGCACTCACTTTTGTCTCTA
42109 I                    A  GACAATGACATTCCTTCTGATGACCTGAGTCACCAAACAAT
42109 P   A                A  CGCGCCCAGGAGGTGAAATGAGGCTCTY
42109 P   C                A  ATGACGTGGCAGACCGGTGAAATGAGGCTCY
42109 T   A                A  ACACAGAGCCTCATTTCACCTTGTTTGGTGACTCAGGTCATCAGAGGAATGTCATTGTCTG
42109 T   C                A  ACACAGAGCCTCATTTCACCGTTGTTTGGTGACTCAGGTCATCAGAGGAATGTCATTGTCTG

42109 IS  [AC]                CTGTGTGACAGCCCAGACCAGACAATGACATTCCTTCTGATGACCTGAGTCACCAAACAA[AC]GGTGAAATGAGGCTCTGTGTCATCCACGGAAGGAGGAAGAAGGTCACATCAGAGGAACTACTA
42117 I                    S  CACCATTCTGTTCTCCTCAAGGCCAGCCAGT
42117 P   C                S  ATGACGTGGCAGACGCATCCTCTGCTGCY
42117 P   T                S  CGCGCCGAGGACATCCTCTGCTGCAY
42117 T   C                S  CCAGTGCAGCAGAGGATGCCTGGCTGGCCTTGAGGAGAACAGAATGGTGGA
42117 T   T                S  CCAGTGCAGCAGAGGATGTCTGGCTGGCCTTGAGGAGAACAGAATGGTGGA

42117 IS  [CT]                ACAGTCACATGAAGCTGCCTTGAATAGGGAAAGCAGGCACACCCAGTGCAGCAGAGGATG[CT]CTGGCTGGCCTTGAGGAGAACAGAATGGTGGAAACGCTCAGTGGGGATGAAGGGGAGAG
                           A
42137 I                    A  CTCAAAGTGACAACCGATGCCTTGTTTGTTTGCGA
42137 P   C                A  ATGACGTGGCAGACCGGGAAAGAGAATGACACY
42137 P   T                A  CGCGCCGAGGTGGCAAAGAGAATGACACTY
42137 T   C                A  CGTGAGTGTCATTCTCTTTCCCGCGCAAACAAACAAGGCATCGGTTGTCACTTTGAGAT
42137 T   T                A  CGTGAGTGTCATTCTCTTTCCCACGCAAACAAACAAGGCATCGGTTGTCACTTTGAGAT

42137 IS  [CT]                CCATTTGCTGCGAGAGTTGCTTCACATCTCAAAGTGACAACCGATGCCTTGTTTGTTTGCG[CT]GGGAAAGAGAATGACACTCACGTAACAGCCTTCTATTATATTGTTCTTTTAAAAGATCTT
42146 I                    A  GGATTCTCTCTGTCTTGGAAACCCCAACCTGGAT
42146 P   G                A  ATGACGTGGCAGACGATGTTATAGGCTATGTTGTGGY
42146 P   A                A  CGCGCCGAGGAATGTTATAGGCTATGTTGTGGY
42146 T   G                A  CAGTCCACAACATAGCCTATAACATCTCCAGGTTGGGGTTTCCAAGACAGAGAGAATCCAC
42146 T   A                A  CAGTCCACAACATAGCCTATAACATTTCCAGGTTGGGGTTTCCAAGACAGAGAGAATCCAC

42146 IS  [GA]                GAAGAAAGAATTGCAGGCACAGAGGGTGGATTCTCTCTGTCTTGGAAACCCCAACCTGGA[GA]ATGTTATAGGCTATGTTGTGGACTGGTGTGACCATACCCAGGATGTGCTCGGTGATTTCC                                OSMR
42150 I                    A  GATTTGGGCTATTAATGATGCAAACAAAACAAACTTGGCGATAATTCTTAAGAA
42150 P   C                A  ATGACGTGGCAGACCTGATAGGGATAATTTGAACAAATY
42150 P   T                A  CGGGCCGAGGTTGATAGGGATAATTTGAACAAATGY

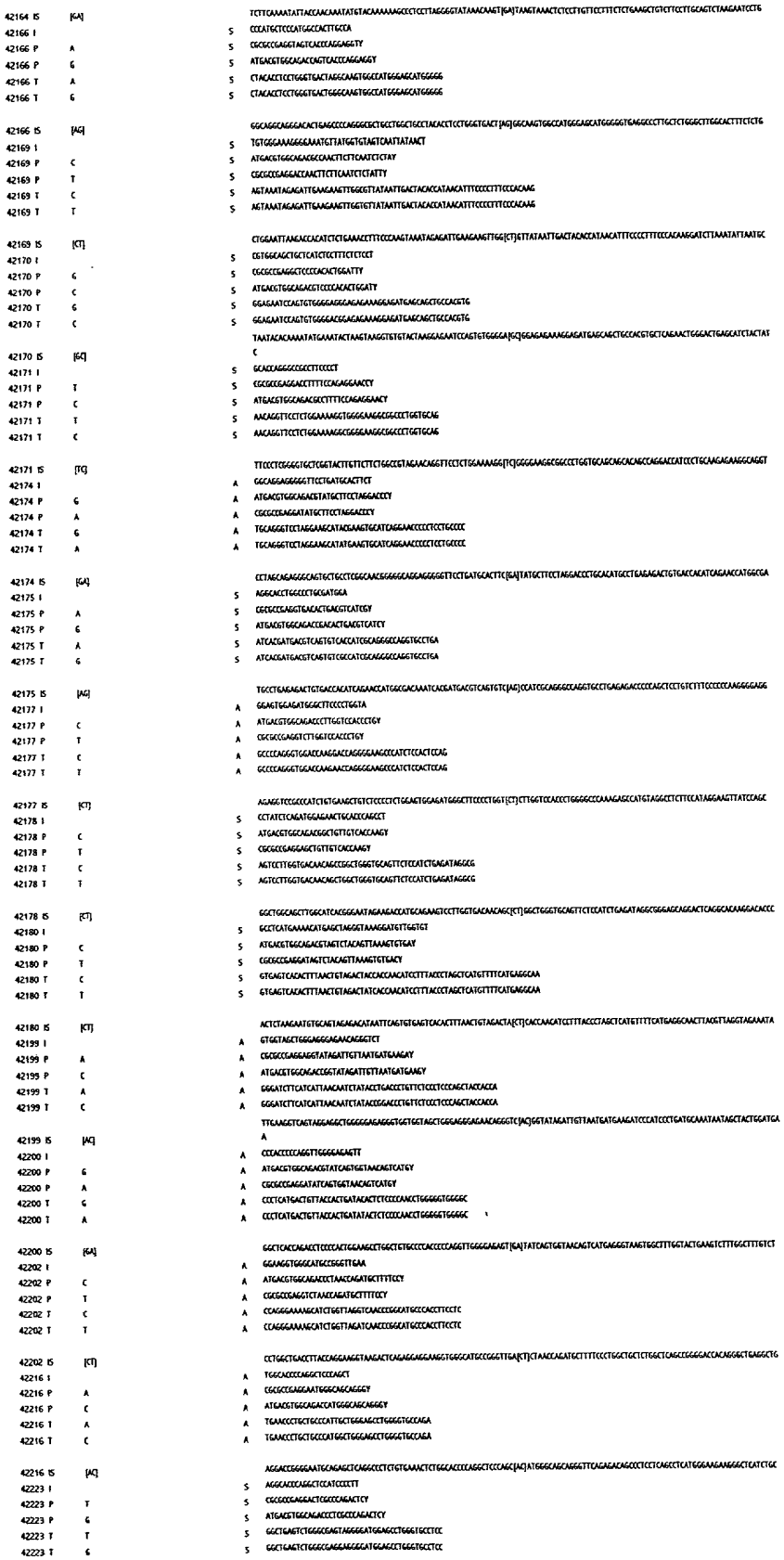
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42150 T   T                A  ATCCCATTTGTTCAAATTATCCCTATCAATCTTAAGAATTATCGCCAAGTTTGTTTTGTTTTGCATCATTAATAGCCCAAATCCC

42150 IS  [CT]                ACGTGGCATTTGGGCTATTAATGATGCAAACAAAACAAACTTGGCGATAATTCTTAAGA[CT]TGATAGGGATAATTTGAACAAATGGGATTTTTTTCTACTTGTGTTTCTTTCCTACGTTTT
42163 I                    S  CCCCAGGGGACACTAGGACAGTTCTGCT
42163 P   G                S  CGCGCCGAGGCTCCAGCAAAGGTGTGY
42163 P   C                S  ATGACGTGGCAGACGTCCAGCAAAGGTGTGY
42163 T   G                S  CCATCACACCTTTGCTGGAGGCAGAACTGTCCTACTGTCCCCTGGGGCA
42163 T   C                S  CCATCACACCTTTGCTGGACGCAGAACTGTCCTACTGTCCCCTGGGGCA

42163 IS  [GC]                GCTGCGTGCTCCAGAAATTCAGCTTTGTGAGTAAAGCTGATCCATCACACCTTTGCTGGA[GC]GCAGAACTGTCCTACTGTCCCCTGGGGCAAGAGGCCTCATGGCTCAGCCTCAGAGGTGGA
42164 I                    S  CAAGGAAGACAGCTTCAGAGAAAGGAACAAGCAGAGTTTACTTAA
42164 P   G                S  ATGACGTGGCAGACACTTGTTTATACCCCTAAGGY
42164 P   A                S  CGCGCCGAGGTACTTGTTTATACCCCTAAGGAY
42164 T   G                S  GCCCTCCTAAGGGGTATAAACAAGTGTAAGTAAACTCTCCTTGTTCCTTTCTCTGAAGCTGTCTTCCTTGCA
42164 T   A                S  GCCCTCCTAAGGGGTATAAACAAGTATAAGTAAACTCTCCTTGTTCCTTTCTCTGAAGCTGTCTTCCTTGCA
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FIGURE 129F



Attorney Docket No. 10466-001-999

FIGURE 129F

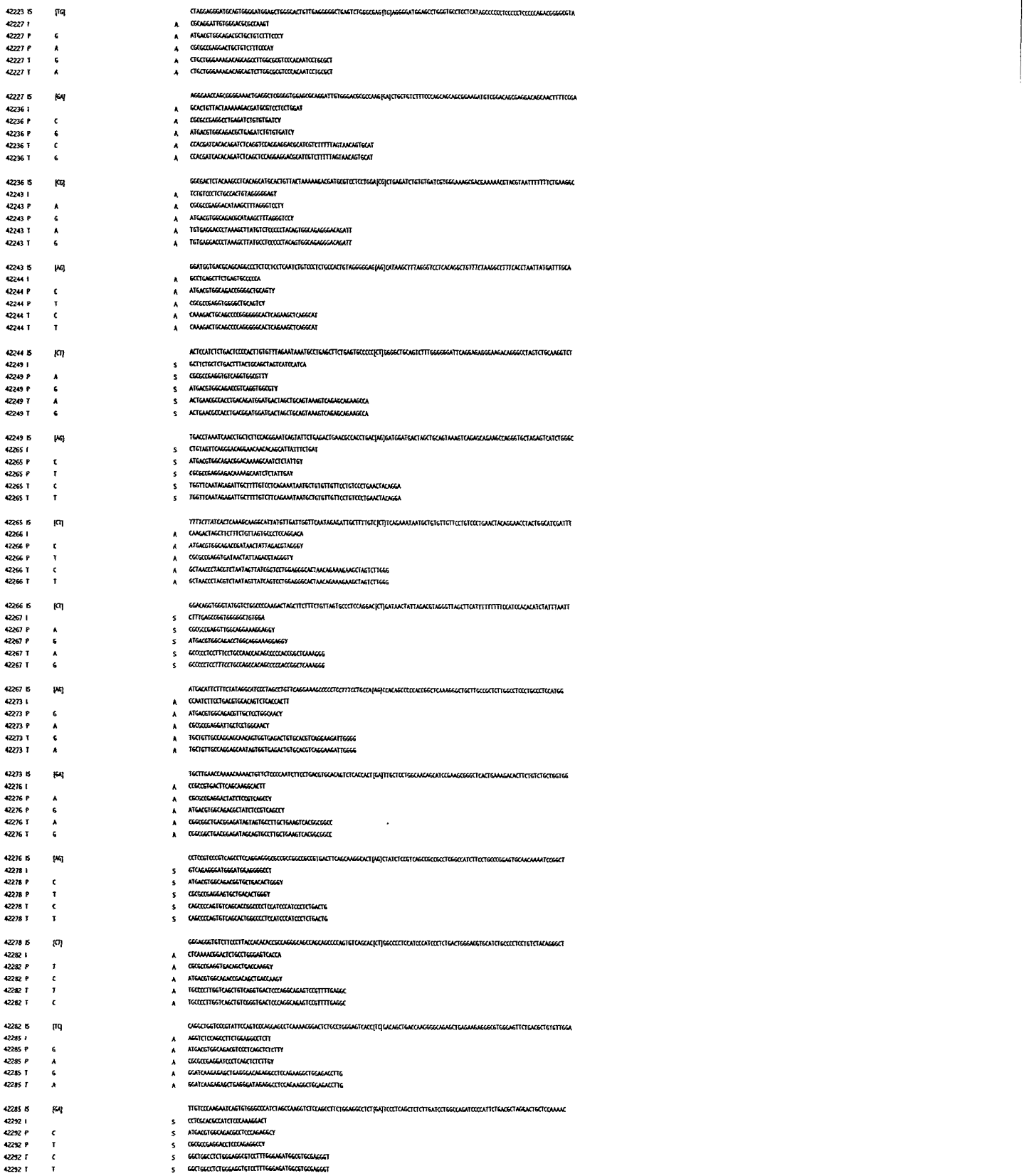
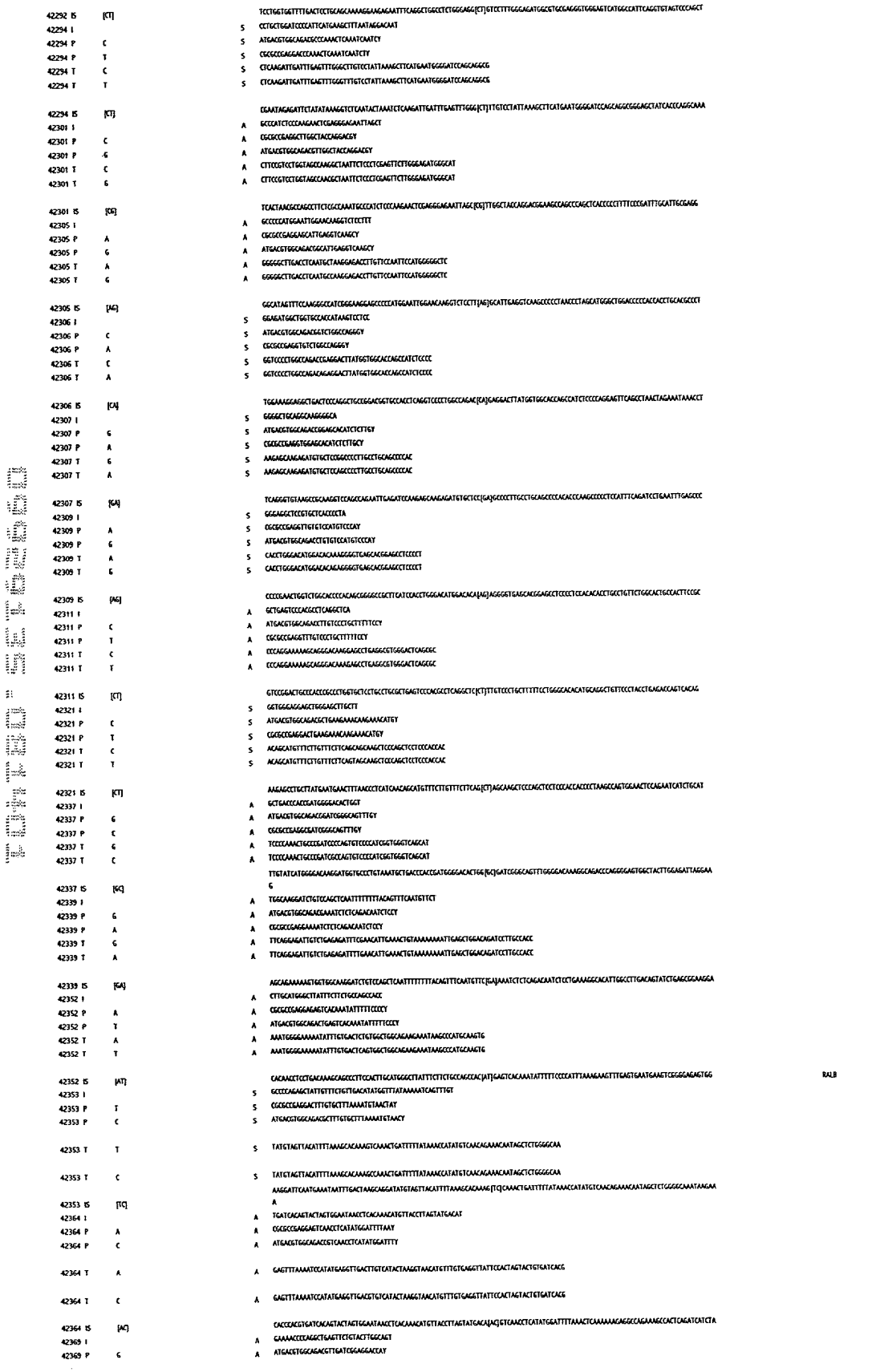


FIGURE 129F



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FIGURE 129F

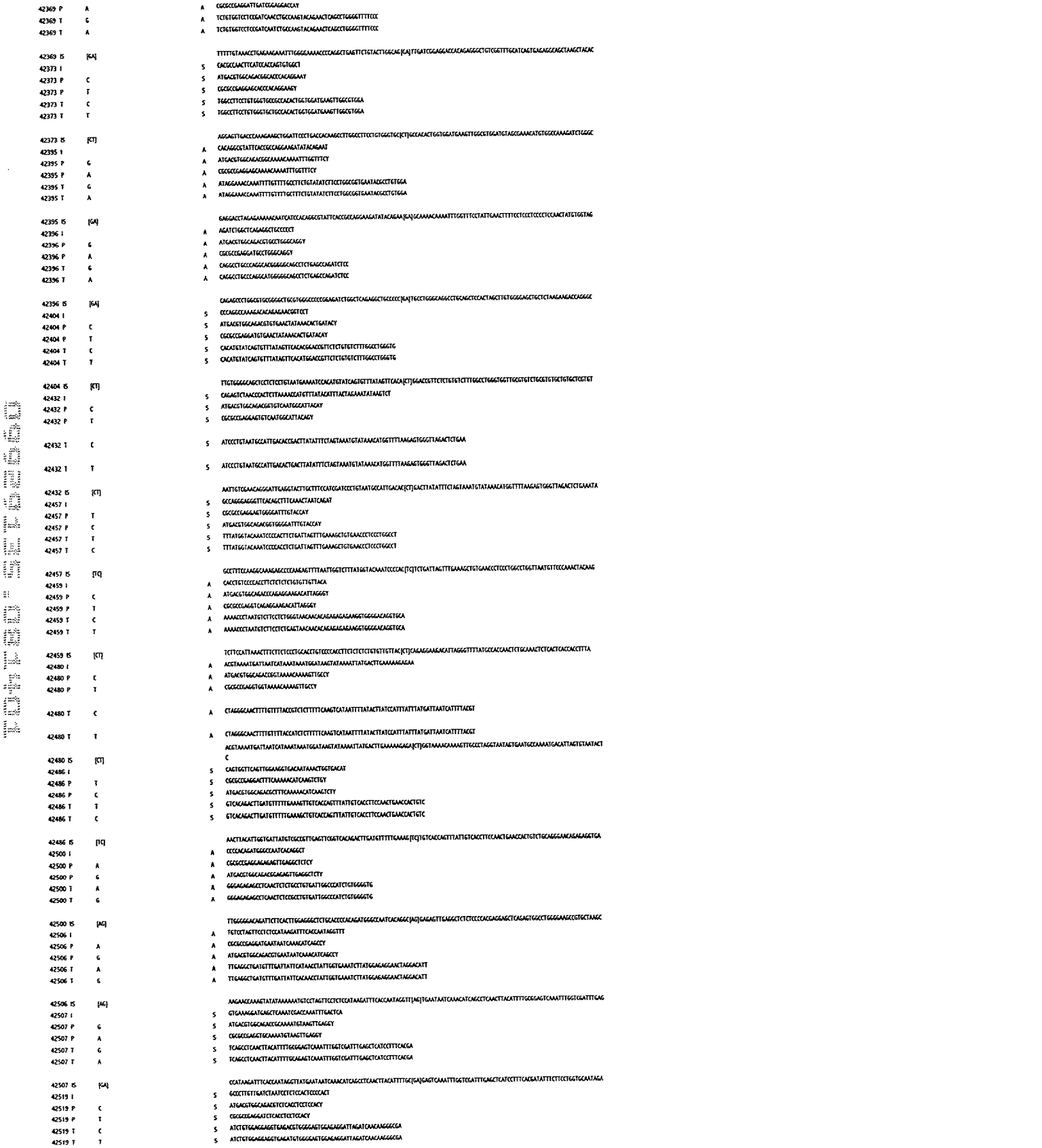

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42369 IS [GA] TTTTTGTAAACCTGAGAAGAAATTTGGGGAAAACCCAGGCTGAGTTCTGTACTTGGCAG[GA]TTGATCGGAGGACCACAGAGGGCTGTCGGTTTGCATCAGTGACAGGCAGCTAAGCTACAC
42373 I S CACGCCAACTTCATCCACAGTGTGGCT
42373 P C S ATGACGTGGCAGACGGCACCCACAGGAAT
42373 P T S CGCGCCGAGGAGCACCCACAGGAAGT
42373 T C S TGGCCTTCCTGTGGGTGCCGCCACACTGGTGGATGAAGTTGGCGTGGA
42373 T T S TGGCCTTCCTGTGGGTGCTGCCACACTGGTGGATGAAGTTGGCGTGGA
42373 IS [CT] AGGAGTTGACCCAAAGAAGCTGGATTCCCTGACCACAAGCCTTGGCCTTCCTGTGGGTGC[CT]GCCACACTGGTGGATGAAGTTGGCGTGGATGTAGCGAAACATGTGGCCAAAGATCTGGGC
42395 I A CACAGGCGTATTCACCGCCAGGAAGATATACAGAAT
42395 P G A ATGACGTGGCAGACGGCAAAACAAATTTGGTTTCY
42395 P A A CGCGCCGAGGAGCAAACAAAATTTGGTTTCY
42395 T G A ATAGGAAACCAAATTTTGTTTTGCCTTCTGTATATCTTCCTGGCGGTGAATACGCCTGTGGA
42395 T A A ATAGGAAACCAAATTTTGTTTTGCTTTCTGTATATCTTCCTGGCGGTGAATACGCCTGTGGA
42395 IS [GA] GAGGACCTAGAGAAAAACAATCATCCACAGGCGTATTCACCGCCAGGAAGATATACAGAA[GA]GCAAAACAAAATTTGGTTTCCTATTGAACTTTTCCTCCCTCCCCTCCAACTATGTGGTAG
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42396 P A A CGCGCCGAGGATGCCTGGGCAGGY
42396 T G A CAGGCCTGCCCAGGCACGGGGGCAGCCTCTGAGCCAGATCTCC
42396 T A A CAGGCCTGCCCAGGCATGGGGGCAGCCTCTGAGCCAGATCTCC
42396 IS [GA] CAGAGCCCTGGCGTGCGGGGCTGCGTGGGCCCCCGGAGATCTGGCTCAGAGGCTGCCCCC[GA]TGCCTGGGCAGGCCTGCAGCTCCACTAGCTTGTGGGGAGCTGCTCTAAGAAGACCAGGGC
42404 I S CCCAGGCCAAAGACACAGAGAAGCGGTCCT
42404 P C S ATGACGTGGCAGACGTGTGAACTATAAACACTGATACY
42404 P T S CGCGCCGAGGATGTGAACTATAAACACTGATACAY
42404 T C S CACATGTATCAGTGTTTATAGTTCACACGGACCGTTCTCTGTGTCTTTGGCCTGGGTG
42404 T T S CACATGTATCAGTGTTTATAGTTCACATGGACCGTTCTCTGTGTCTTTGGCCTGGGTG
42404 IS [CT] TTGTGGGGCAGCTCCTCTCCTGTAATGAAAATCCACATGTATCAGTGTTTATAGTTCACA[CT]GGACCGTTCTCTGTGTCTTTGGCCTGGGTGGTTGCGTGTCTGCGTGTGCTGTGCTGTGT
42432 I S CAGAGTCTAACCCACTCTTAAAACCATGTTTATACATTTACTAGAAATATAAGTCT
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42432 P T S CGCGCCGAGGAGTGTCAATGGCATTACAGY
42432 T C S ATCCCTGTAATGCCATTGACACCGACTTATATTTCTAGTAAATGTATAAACATGGTTTTAAGAGTGGGTTAGACTCTGAA
42432 T T S ATCCCTGTAATGCCATTGACACTGACTTATATTTCTAGTAAATGTATAAACATGGTTTTAAGAGTGGGTTAGACTCTGAA
42432 IS [CT] AATTGTCGAACAGGGATTGAGGTACTTGCTTTCCATCGATCCCTGTAATGCCATTGACAC[CT]GACTTATATTTCTAGTAAATGTATAAACATGGTTTTAAGAGTGGGTTAGACTCTGAAATA
42457 I S GCCAGGCAGGGTTCACAGCTTTCAAACTAATCAGAT
42457 P T S CGCGCCGAGGAGTGGGGATTTGTACCAY
42457 P C S ATGACGTGGCAGACGGTGGGGATTTGTACCAY
42457 T T S TTTATGGTACAAATCCCCACTTCTGATTAGTTTGAAAGCTGTGAACCCTCCCTGGCCT
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42459 P C A ATGACGTGGCAGACCCAGAGGAAGACATTAGGGY
42459 P T A CGCGCCCAGGTCAGAGGAAGACATTAGGGY
42459 T C A AAAACCTAATGTCTTCCTCTGGGTAACAACACAGAGAGAGAAGGTGGGGACAGGTGCA
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42459 IS [CT] TCTTCCATTAAACTTTCTTCTCCCTGCACCTGTCCCCACCTTCTCTCTCTGTGTTGTTAC[CT]CAGAGGAAGACATTAGGGTTTTATGCCACCAACTCTGCAAACTCTCACTCACCACCTTTA
42480 I A ACGTAAAATGATTAATCATAAATAAATGGATAAGTATAAAATTATGACTTGAAAAAGAGAA
42480 P C A ATGACGTGGCAGACCGGTAAAACAAAAGTTGCCY
42480 P T A CGCGCCGAGGTGGTAAAACAAAAGTTGCCY
42480 T C A CTAGGGCAACTTTGTTTTACCGTCTCTTTTTCAAGTCATAATTTTATACTTATCCATTTATTTATGATTAATCATTTTACGT
42480 T T A CTAGGGCAACTTTGTTTTACCATCTCTTTTTCAAGTCATAATTTTATACTTATCCATTTATTTATGATTAATCATTTTACGT
42480 IS [CT] ACGTAAAATGATTAATCATAAATAAATGGATAAGTATAAAATTATGACTTGAAAAAGAGA[CT]GGTAAAACAAAAGTTGCCCTAGGTAATAGTGAATGCCAAAATGACATTAGTGTAATACT
C
42486 I S CAGTGGTTCAGTTGGAAGGTGACAATAAACTGGTGACAT
42486 P T S CGCGCCGAGGACTTTCAAAAACATCAAGTCTGY
42486 P C S ATGACGTGGCAGACGCTTTCAAAAACATCAAGTCTY
42486 T T S GTCACAGACTTGATGTTTTTGAAAGTTGTCACCAGTTTATTGTCACCTTCCAACTGAACCACTGTC
42486 T C S GTCACAGACTTGATGTTTTTGAAAGCTGTCACCAGTTTATTGTCACCTTCCAACTGAACCACTGTC
42486 IS [TC] AACTTACATTGGTGATTATGTCGCCGTTGAGTTCGGTCACAGACTTGATGTTTTTGAAAG[TC]TGTCACCAGTTTATTGTCACCTTCCAACTGAACCACTGTCTGCAGGGAACAGAGAGGTGA
42500 I A CCCCACAGATGGGCCAATCACAGGCT
42500 P A A CGCGCCGAGGAGAGAGTTGAGGCTCTCY
42500 P G A ATGACGTGGCAGACGGAGAGTTGAGGCTCTY
42500 T A A GGGAGAGAGCCTCAACTCTCTGCCTGTGATTGGCCCATCTGTGGGGTG
42500 T G A GGGAGAGAGCCTCAACTCTCCGCCTGTGATTGGCCCATCTGTGGGGTG
42500 IS [AG] TTGGGGGACAGATTCTCACTTGGAGGGCTCTGCACCCCACAGATGGGCCAATCACAGGC[AG]GAGAGTTGAGGCTCTCTCCCCACGAGGAGCTCAGAGTGGCCTGGGGAAGCCGTGCTAAGC
42506 I A TGTCCTAGTTCCTCTCCATAAGATTTCACCAATAGGTTT
42506 P A A CGCGCCGAGGATGAATAATCAAACATCAGCCY
42506 P G A ATGACGTGGCAGACGTGAATAATCAAACATCAGCCY
42506 T A A TTGAGGCTGATGTTTGATTATTCATAACCTATTGGTGAAATCTTATGGAGAGGAACTAGGACATT
42506 T G A TTGAGGCTGATGTTTGATTATTCACAACCTATTGGTGAAATCTTATGGAGAGGAACTAGGACATT
42506 IS [AG] AAGAACCAAGTATATAAAAAATGTCCTAGTTCCTCTCCATAAGATTTCACCAATAGGTT[AG]TGAATAATCAAACATCAGCCTCAACTTACATTTTGGGGAGTCAAATTTGGTCGATTTGAG
42507 I S GTGAAAGGATGAGCTCAAATCGACCAAATTTGACTCA
42507 P G S ATGACGTGGCAGACCGCAAAATGTAAGTTGAGGY
42507 P A S CGCGCCGAGGTGCAAAATGTAAGTTGAGGY
42507 T G S TCAGCCTCAACTTACATTTTGCGGAGTCAAATTTGGTCGATTTGAGCTCATCCTTTCACGA
42507 T A S TCAGCCTCAACTTACATTTTGCAGAGTCAAATTTGGTCGATTTGAGCTCATCCTTTCACGA
42507 IS [GA] CCATAAGATTTCACCAATAGGTTATGAATAATCAAACATCAGCCTCAACTTACATTTTGC[GA]GAGTCAAATTTGGTCGATTTGAGCTCATCCTTTCACGATATTTCTTCCTGGTGCAATAGA
42519 I S GCCCTTGTTGATCTAATCCTCTCCACTCCCCACT
42519 P C S ATGACGTGGCAGACGTCTCCACCTCCTCCACY
42519 P T S CGCGCCGAGGATCTCACCTCCTCCACY
42519 T C S ATCTGTGGAGGAGGTGAGATGTGGGGAGTGGAGAGGATTAGATCAACAGGGCGA
42519 T T S ATCTGTGGAGGAGGTGAGATGTGGGGAGTGGAGAGGATTAGATCAACAGGGCGA

FIGURE 129F

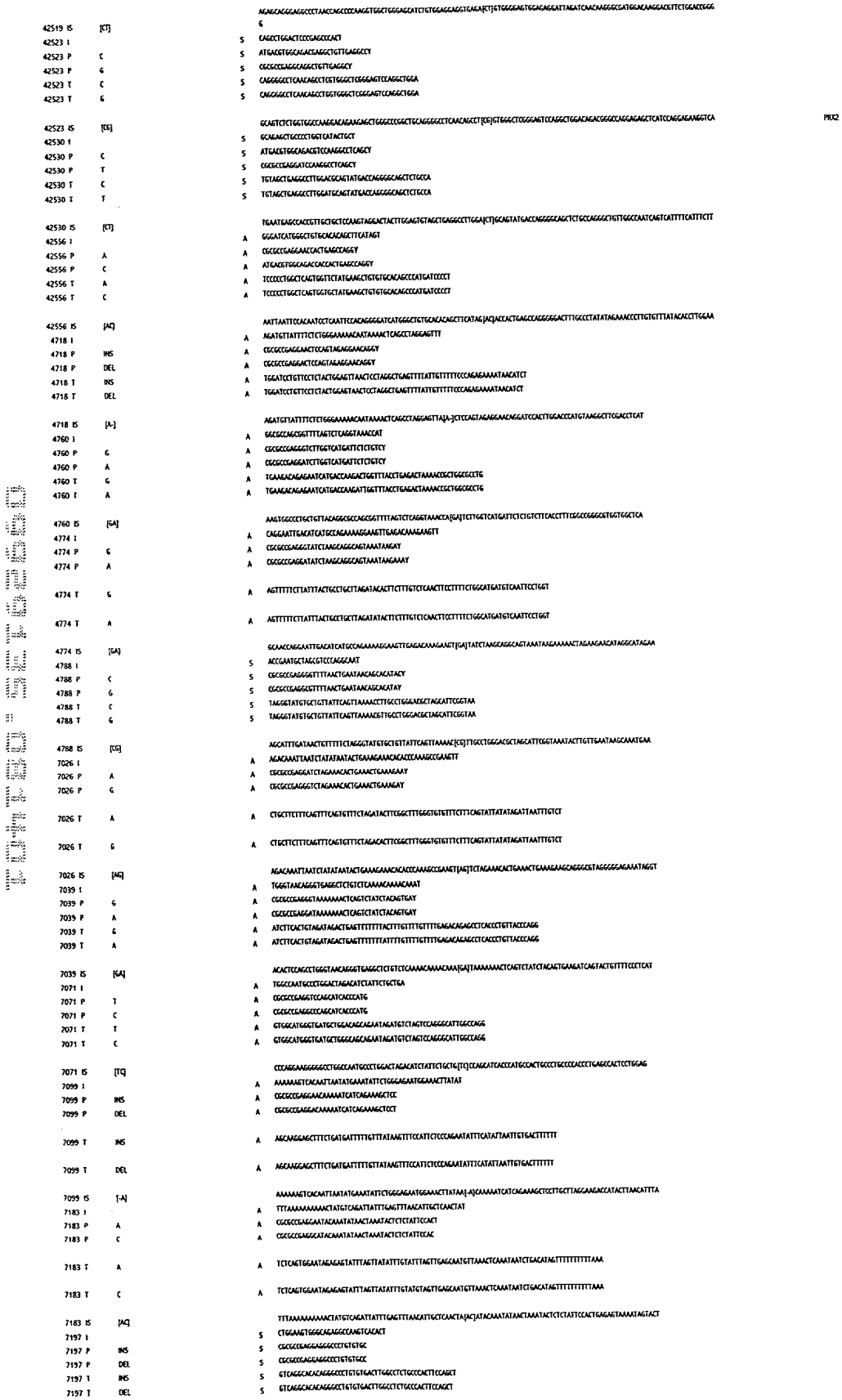
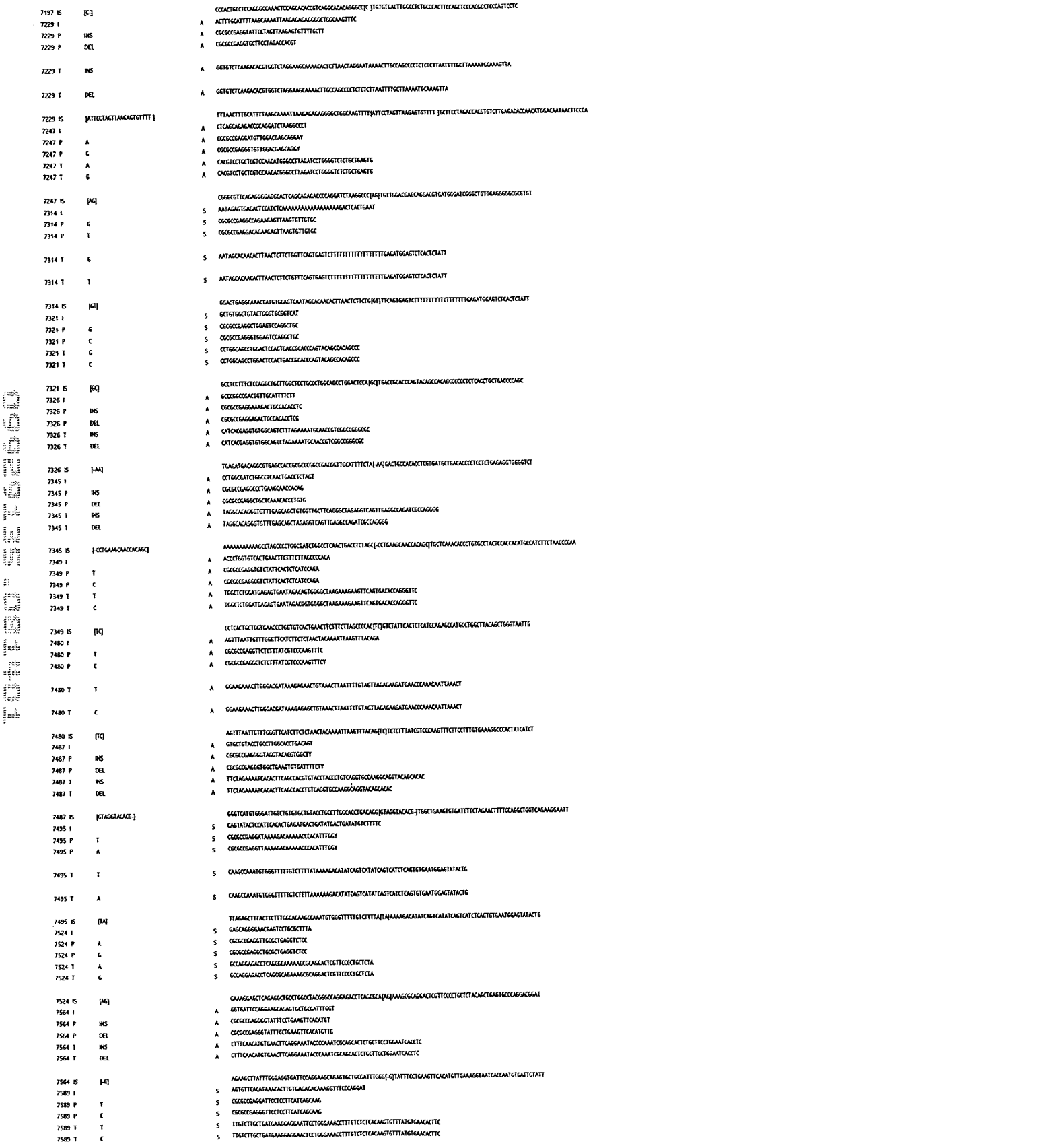

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FIGURE 129F



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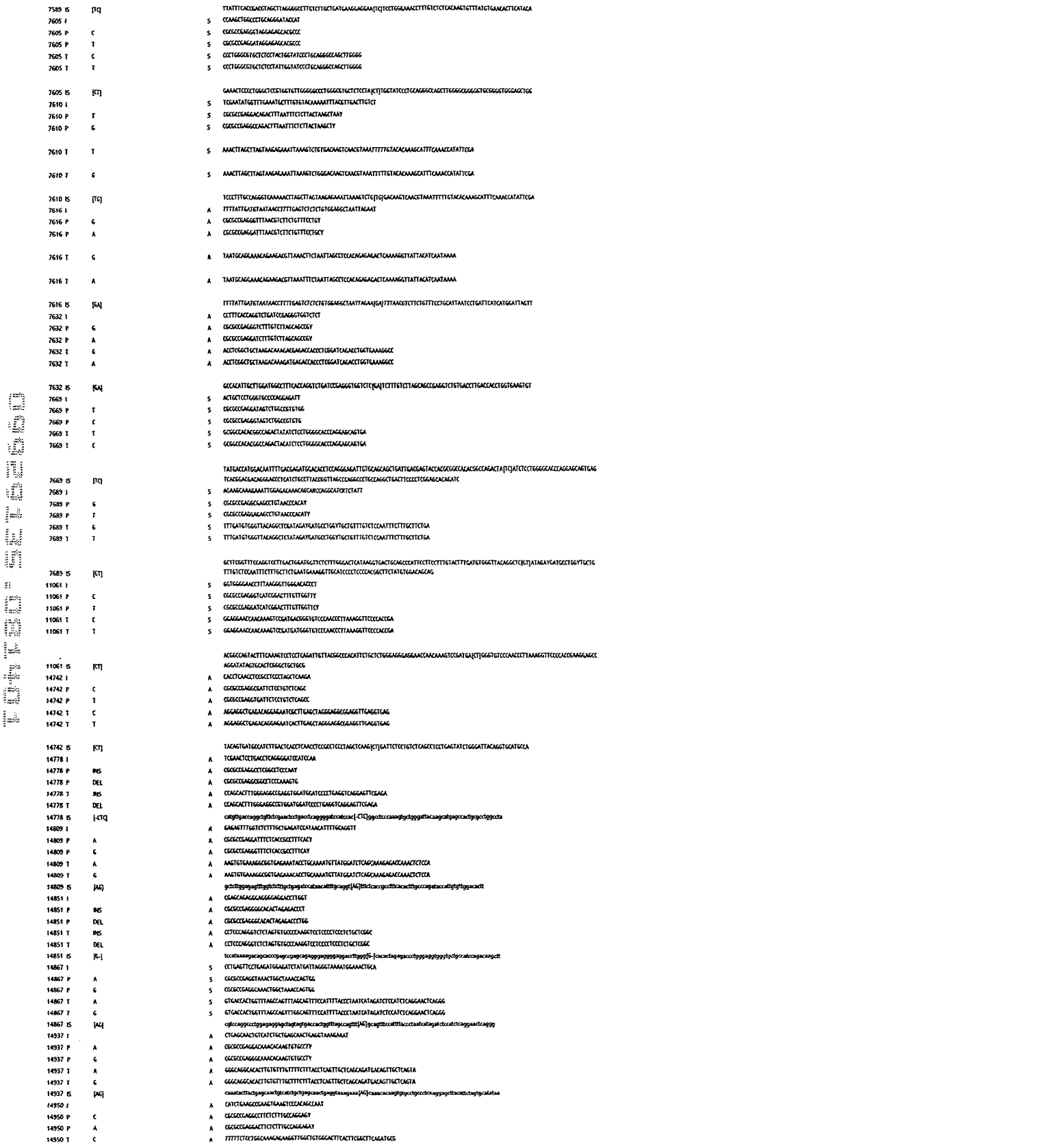

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7689 T T S
7689 IS [GT]
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11061 P T S
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11061 T T S
11061 IS [CT]
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14742 P T A
14742 T C A
14742 T T A
14742 IS [CT]
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14778 T INS A
14778 T DEL A
14778 IS [-CTC]
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14809 T A A
14809 T G A
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FIGURE 129F

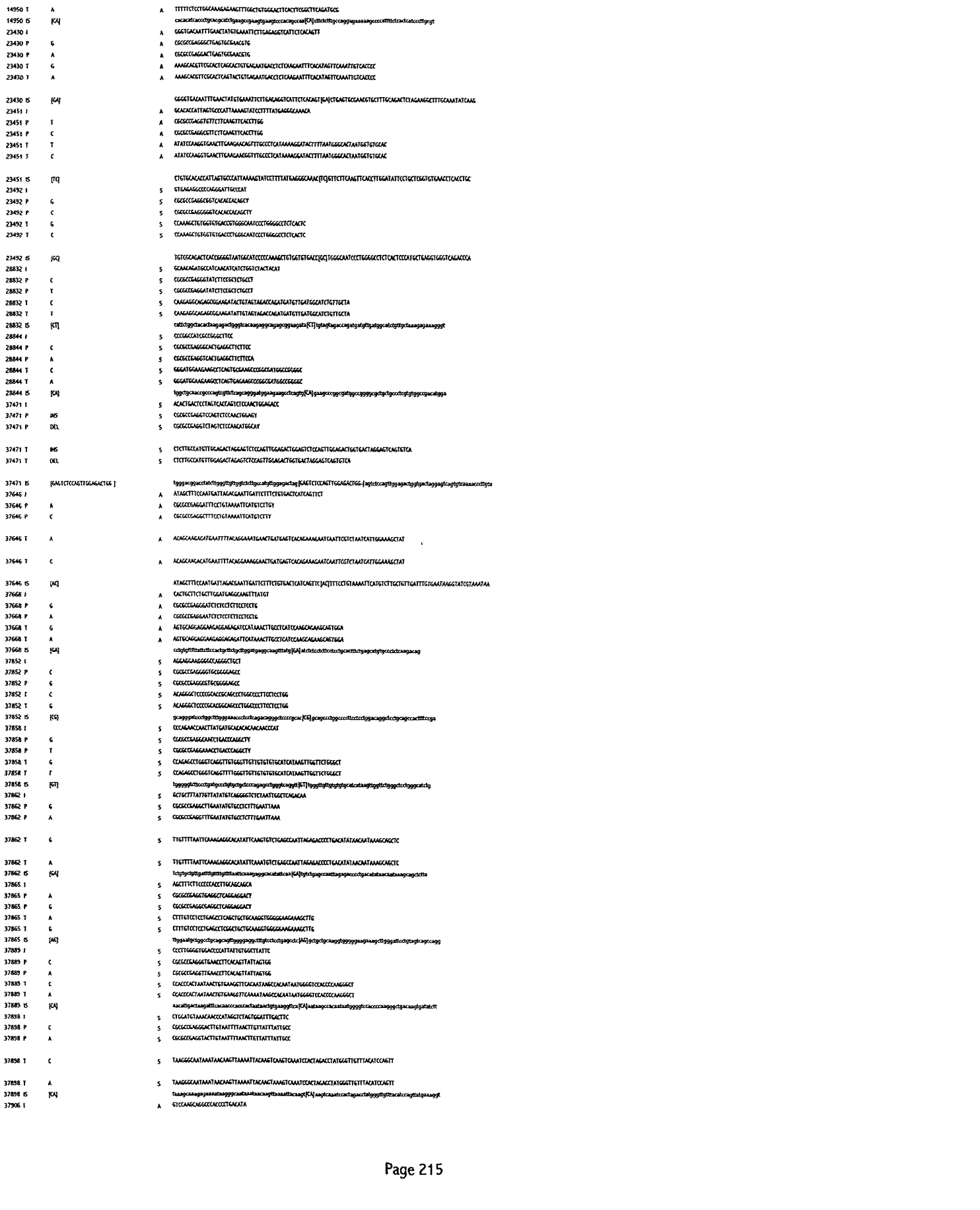


FIGURE 129F

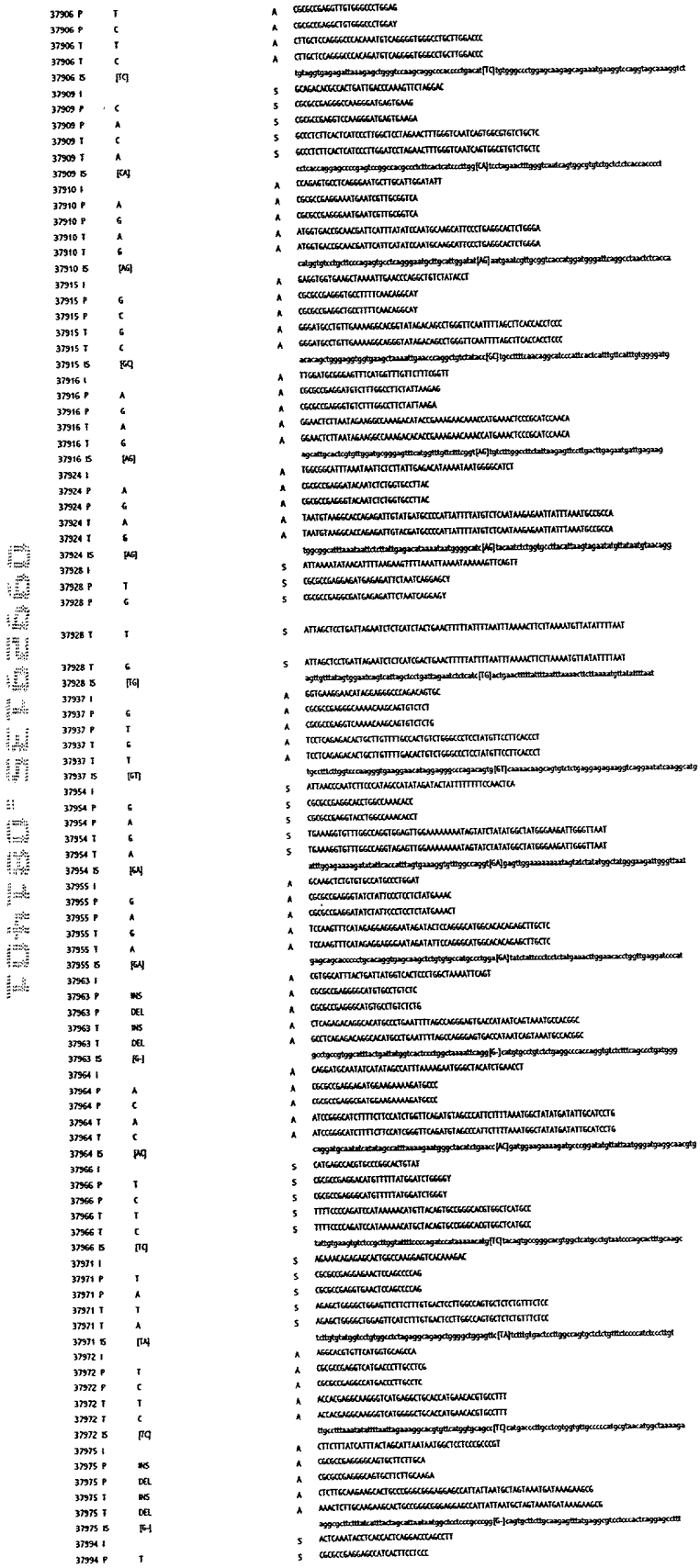


FIGURE 129F

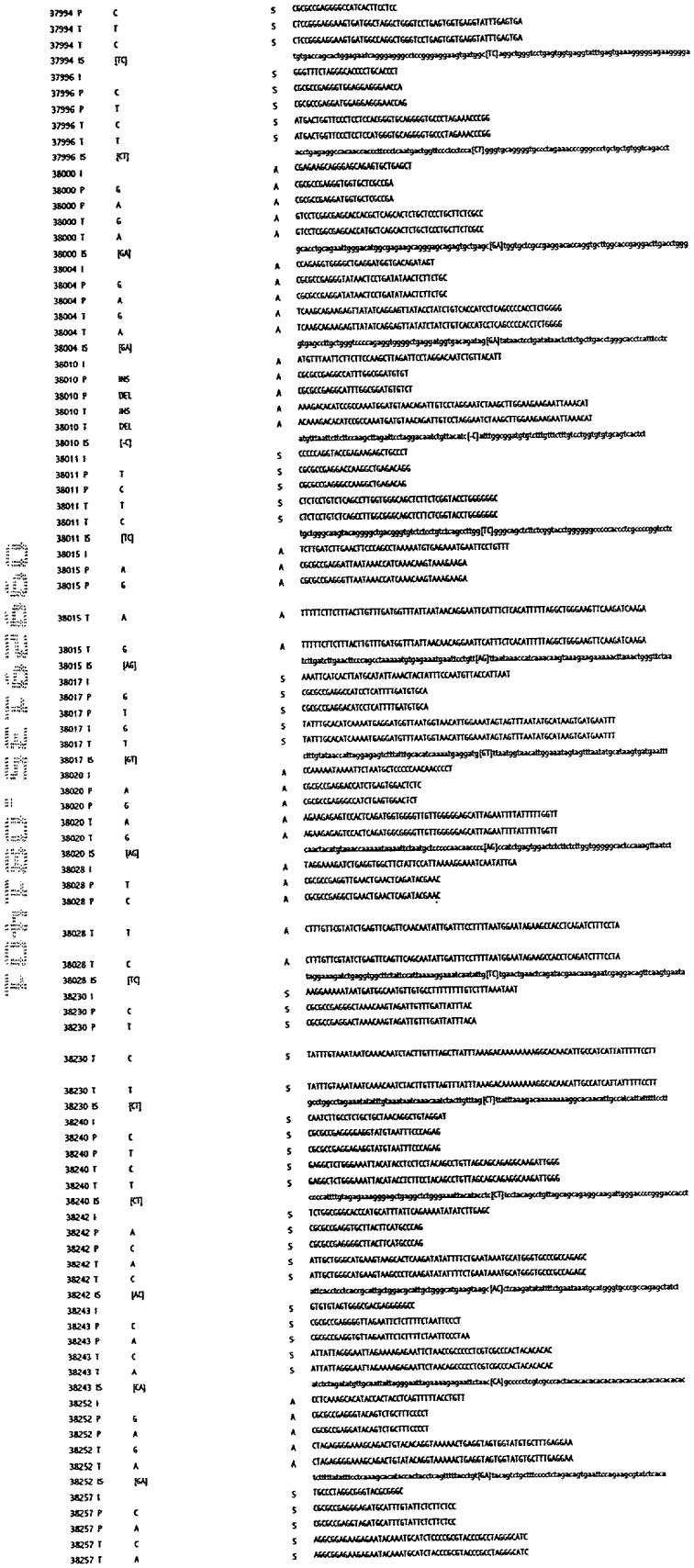
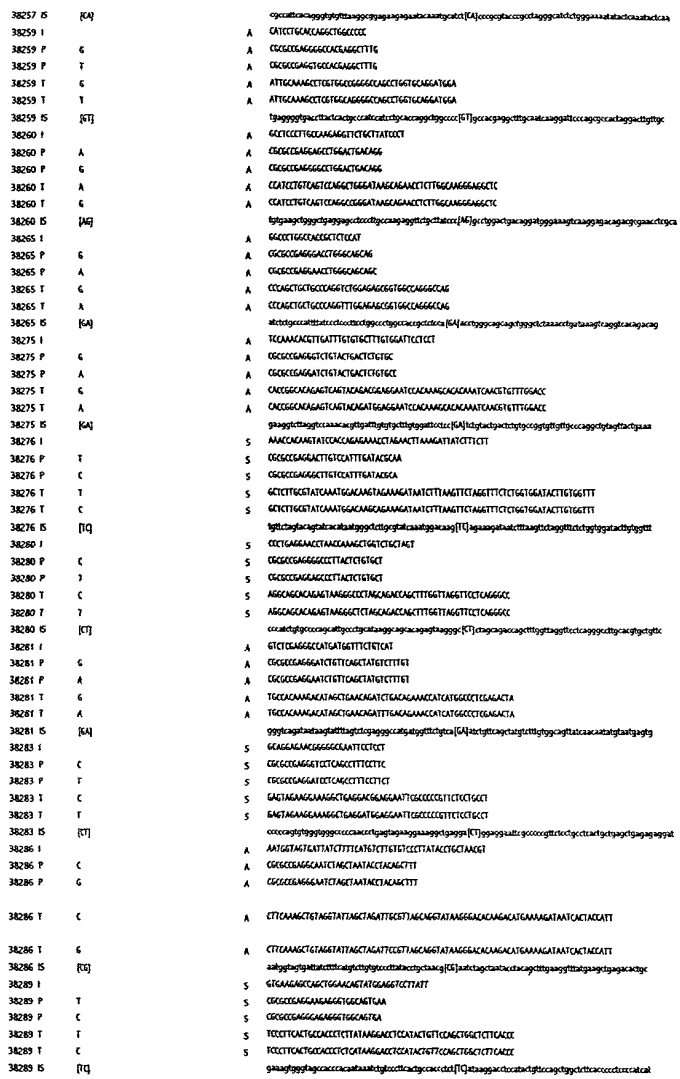


FIGURE 129F



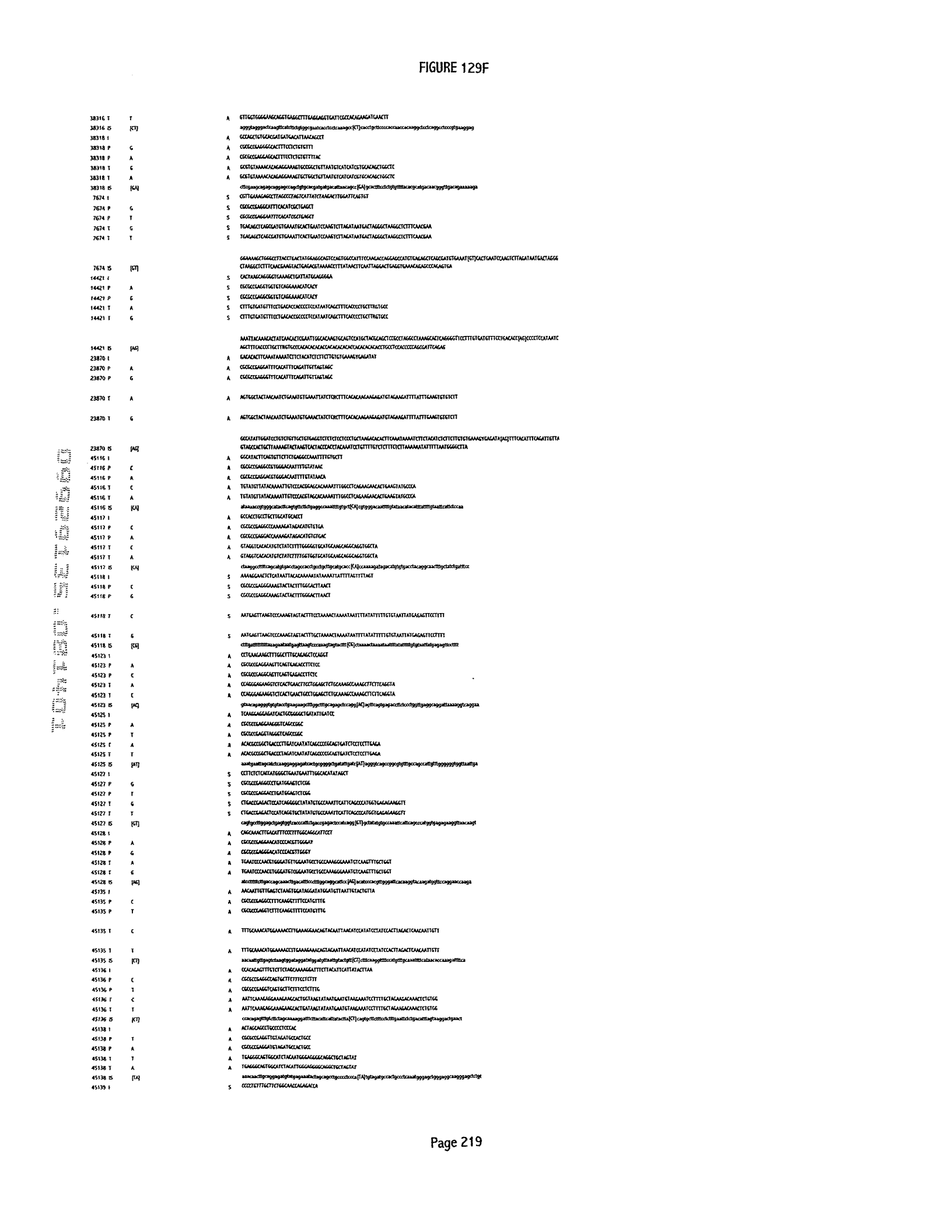


FIGURE 129F

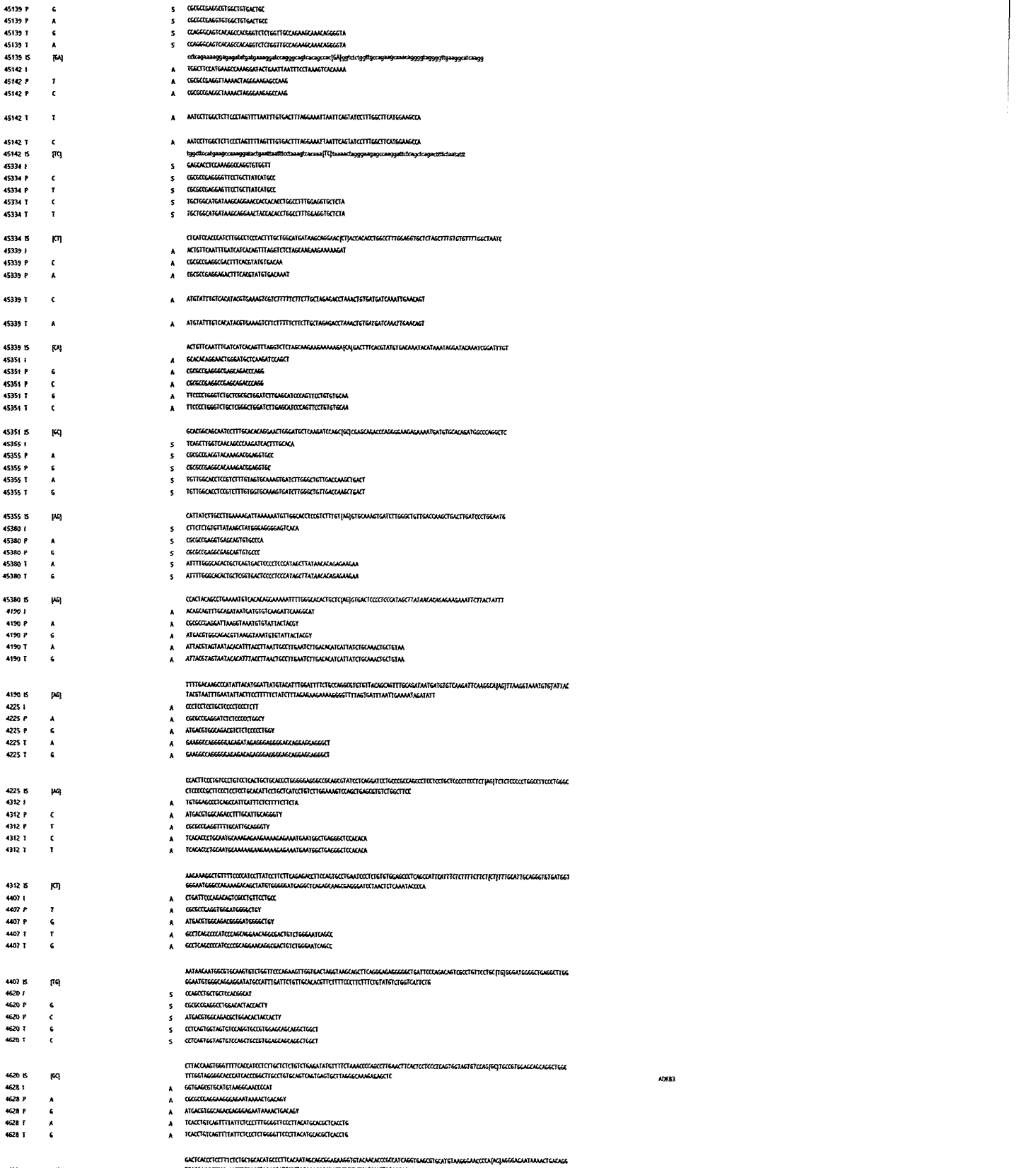


FIGURE 129F

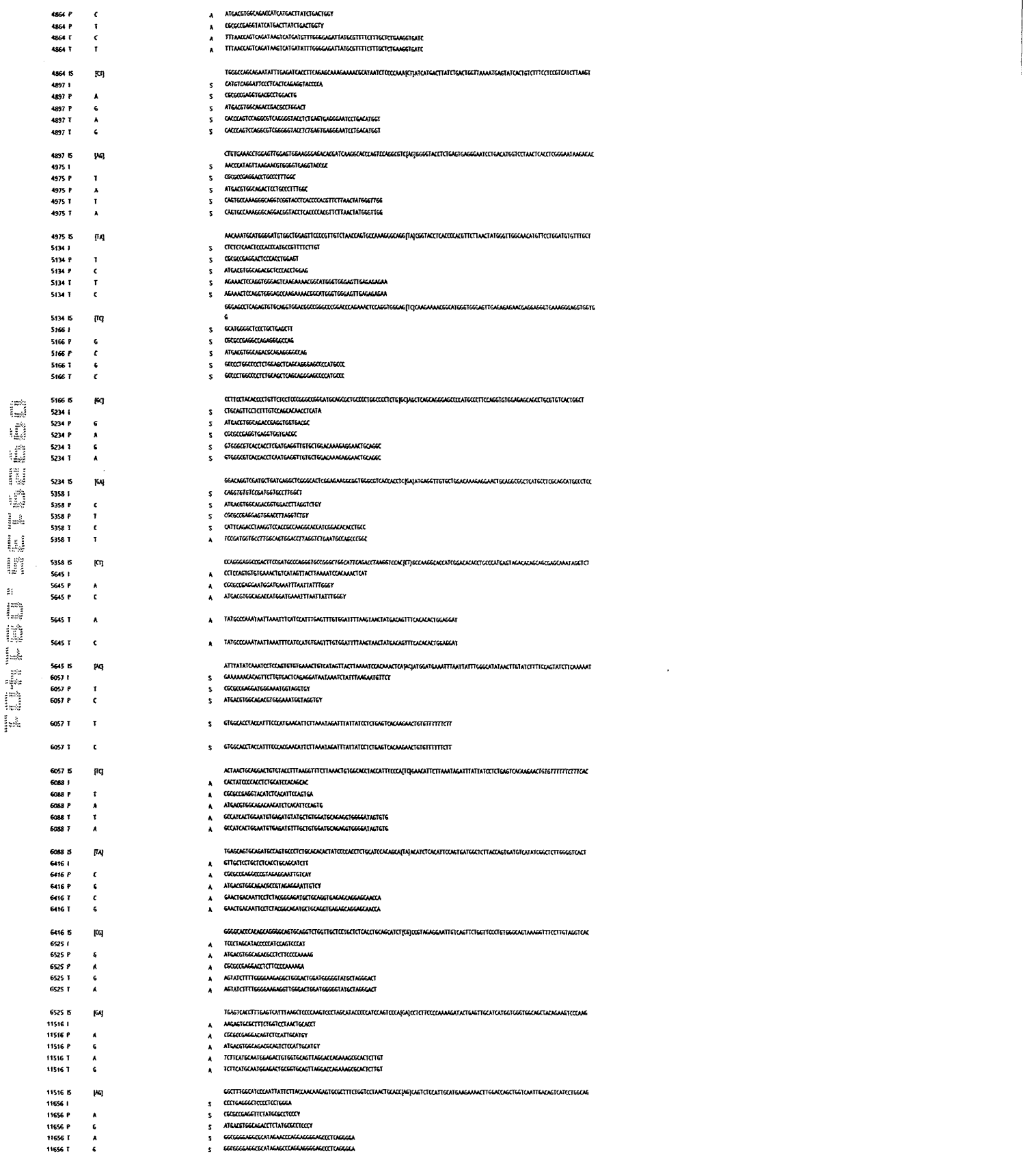
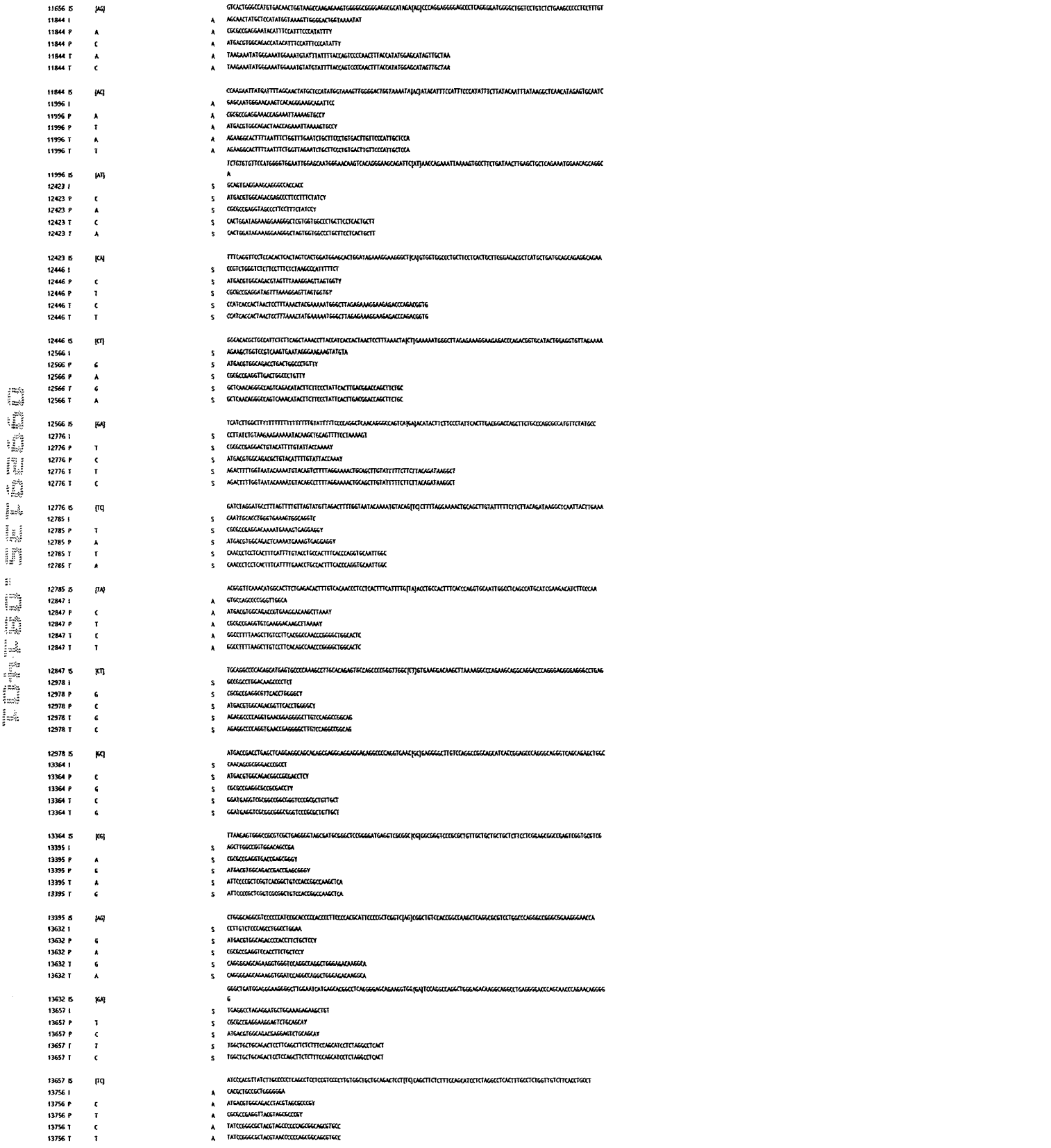


FIGURE 129F



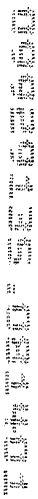
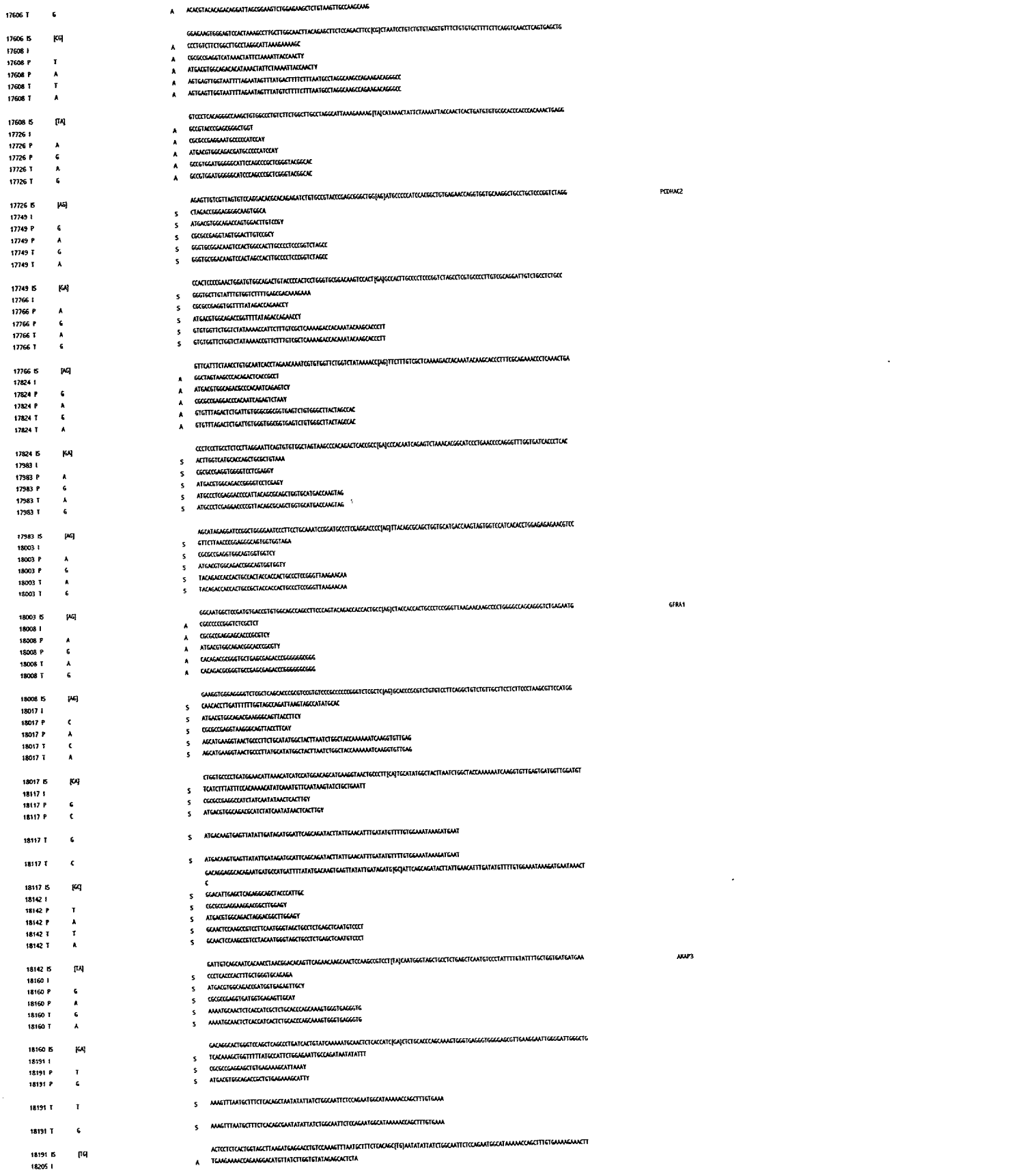
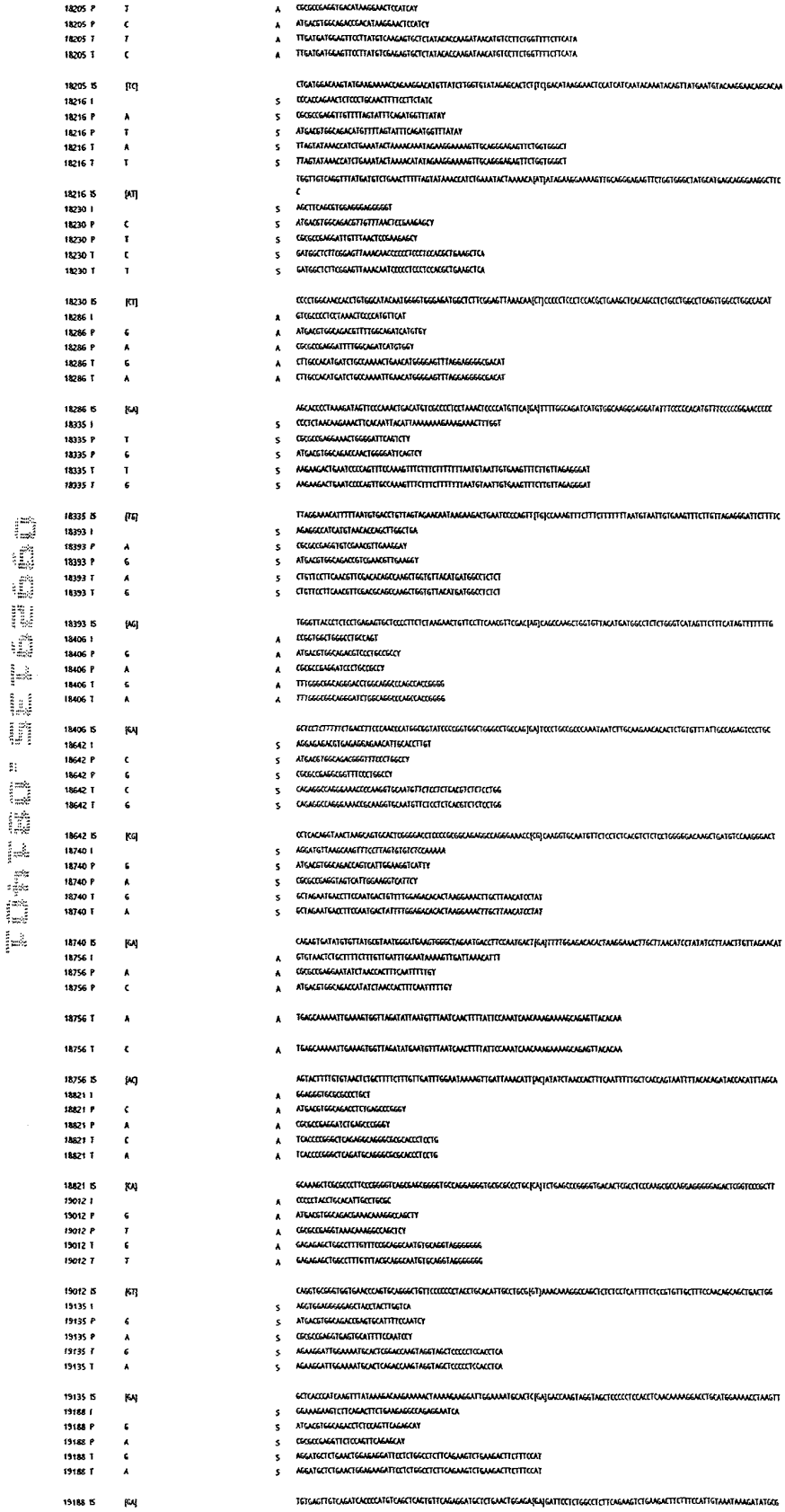
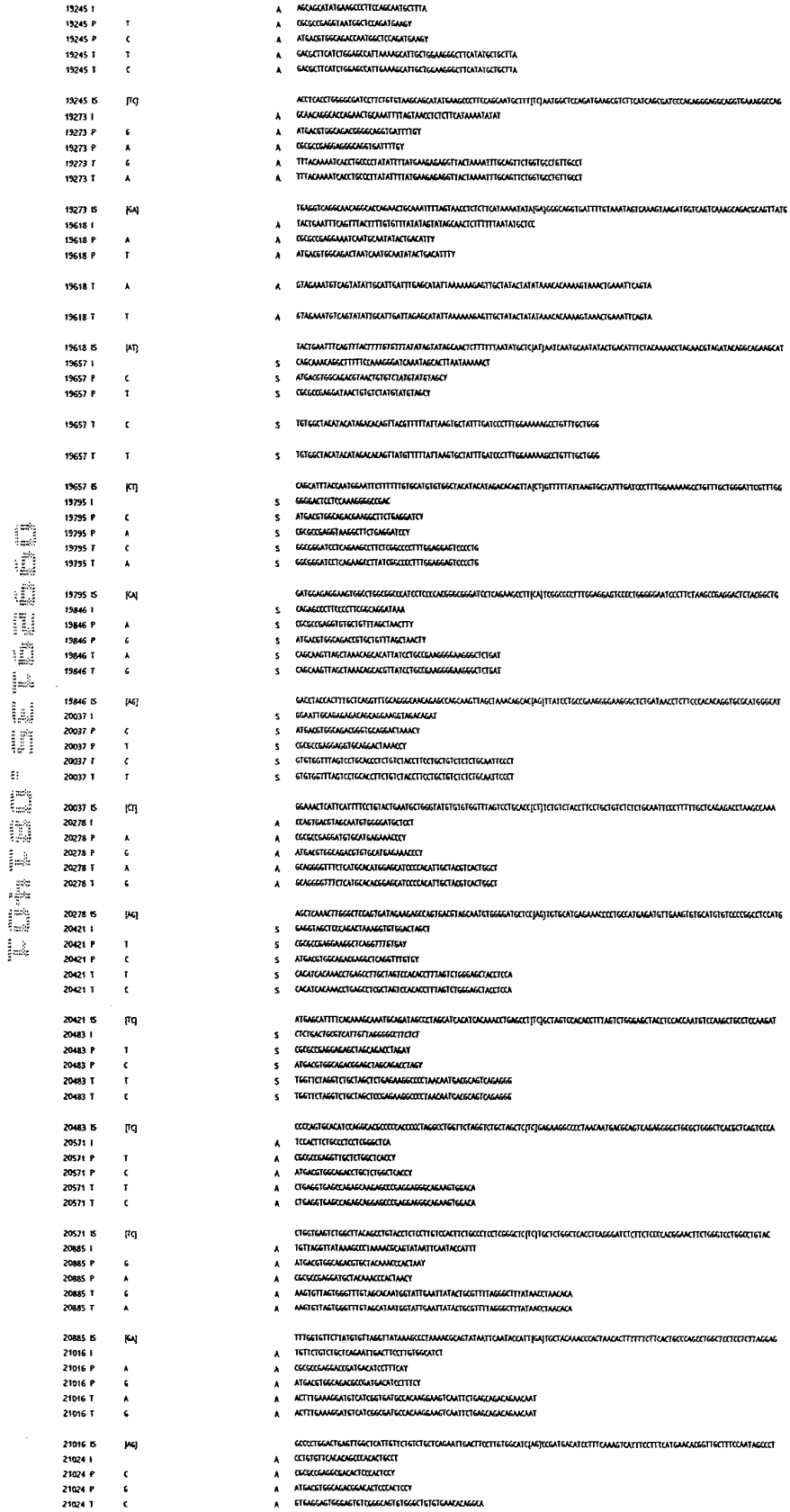
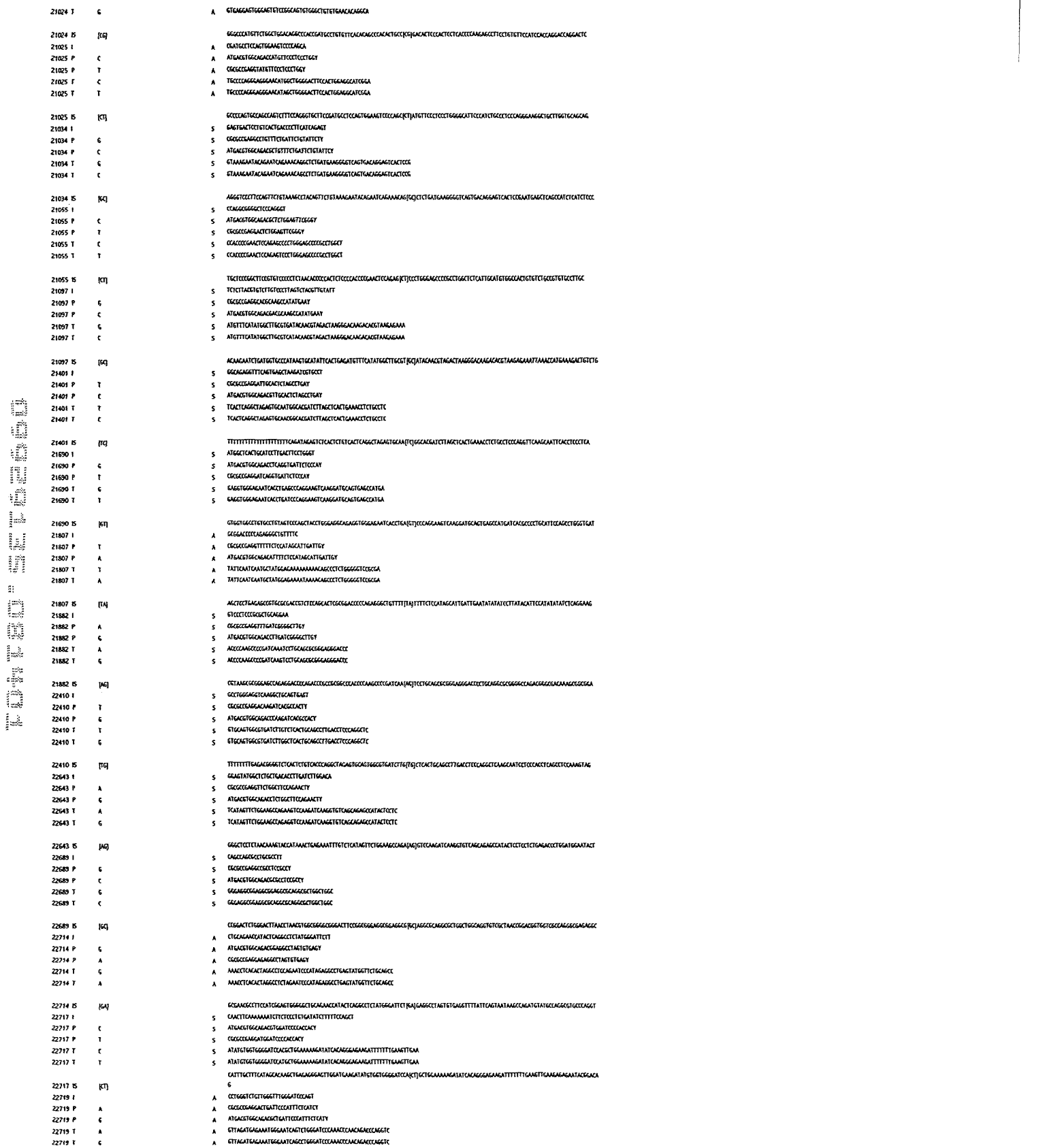


FIGURE 129F




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18205 P C A ATGACGTGGCAGACCGACATAAGGAACTCCATCY
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18205 T C A TTGATGATGGAAGTTCCTTATGTCGAGAGTGCTCTATACACCAAGATAACATGTCCTTCTGGTTTTCTTCATA
18205 IS [TC] CTGATGGAACAAGTATGAAGAAAACCAGAAGGACATGTTATCTGGTGTATAGAGCACTCT[TC]GACATAAGGAACTCCATCATCAATACAAATACAGTTATGAATGTACAAGGAACAGCACAA
18216 I S CCCACCAGAACTCTCCCTGCAACTTTCCTCTCTATC
18216 P A S CGCGCCGAGGTTGTTTTAGTATTTCAGATGGTTTATAY
18216 P T S ATGACGTGGCAGACATGTTTTAGTATTTCAGATGGTTTATAY
18216 T A S TTAGTATAAACCATCTGAAATACTAAAACAAATAGAAGGAAAAGTTGCAGGGAGAGAGTTCTGGTGGGCT
18216 T T S TTAGTATAAACCATCTGAAATACTAAAACATATAGAAGGAAAAGTTGCAGGGAGAGTTCTGGTGGGCT
18216 IS [AT] TGGTTGTCAGGTTTATGATGTCTGAACTTTTTAGTATAAACCATCTGAAATACTAAAACA[AT]ATAGAAGCAAAAGTTGCAGGGAGAGAGTTCTGGTGGGCTATGCATGAGCAGGGAAGGCTTC C
18230 I S AGCTTCAGGCTGGAGGGAGGGGGT
18230 P C S ATGACGTGGCAGACGTTGTTTAACTCCGAAGAGCY
18230 P T S CGCGCCGAGGATTGTTTAACTCCGAAGAGCY
18230 T C S GATGGCTCTTCGGAGTTAAACAACCCCCTCCCTCCCAGCTGAAGCTCA
18230 T T S GATGGCTCTTCGGAGTTAAACAATCCCCCTCCCTCCCAGCTGAAGCTCA
18230 IS [CT] CCCCTGGCAACCACCTGTGGCATACAATGGGGTGGGAGATGGCTCTTCGGAGTTAAACAA[CT]CCCCCTCCCTCCCACGCTGAAGCTCACAGCCTCTGCCTGGCCTCAGTTGGCCTGGCCACAT
18286 I A GTCGCCCCTCCTAAACTCCCCATGTTCAT
18286 P G A ATGACGTGGCAGACGTTTTGGCAGATCATGTGY
18286 P A A CGCGCCGAGGATTTTGGCAGATCATGTGGY
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18286 T A A CTTGCCACATGATCTGCCAAAATTGAACATGGGGAGTTTAGGAGGGGCGACAT
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18335 P T S CGCGCCGAGGAAACTGGGGATTCAGTCTY
18335 P G S ATGACGTGGCAGACCAACTGGGGATTCAGTCY
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18335 IS [TG] TTAGGAAACATTTTTAATGTGACCTGTTAGTAGAACAATAAGAAGACTGAATCCCCAGTT[TG]CCAAAGTTTCTTTCTTTTTTAATGTAATTGTGAAGTTTCTTGTTAGAGGGATTCTTTTC
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18393 P A S CGCGCCGAGGTGTCGAACGTTGAAGGAY
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18393 T A S CTGTTCCTTCAACGTTCGACACAGCCAAGCTGGTGTTACATGATGGCCTCTCT
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18406 P G A ATGACGTGGCAGACGTCCCTGCCGCCY
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18740 P G S ATGACGTGGCAGACCAGTCATTGGAAGGTCATTY
18740 P A S CGCGCCGAGGTAGTCATTGGAAGGTCATTCY
18740 T G S GCTAGAATGACCTTCCAATGACTGTTTGGAGACACACTAAGGAAACTTGCTTAACATCCTAT
18740 T A S GCTAGAATGACCTTCCAATGACTATTTGGAGACACACTAAGGAAACTTGCTTAACATCCTAT
18740 IS [GA] CACAGTGATATGTGTTATGCGTAATGGGATGAAGTGGGCTAGAATGACCTTCCAATGAC[GA]TTTTGGAGACACACTAAGGAAACTTGCTTAACATCCTATATCGTTAACTTCATTAGAACAT
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18756 P C A ATGACGTGGCAGACCATATCTAACCACTTTCAATTTTTGY
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18756 T C A TGAGCAAAAATTGAAAGTGGTTAGATATGAATGTTTAATCAACTTTTATTCCAAATCAACAAGAAAAGCAGAGTTACACAA
18756 IS [AC] AGTACTTTTGTGTAACTCTGCTTTCTTTGTTGATTTGGAATAAAAGTTGATTAAACATT[AC]ATATCTAACCACTTTCAATTTTTGCTCACCAGTAATTTTACACAGATACCACATTTAGCA
18821 I A GGAGGGTGCGCCCCTGCT
18821 P C A ATGACGTGGCAGACCTCTGAGCCCGGGY
18821 P A A CGCGCCGAGGATCTGAGCCCGGGY
18821 T C A TCACCCCGGGCTCAGAGCAGGGCGCGCACCCTCCTG
18821 T A A TCACCCCGGGCTCAGATGCAGGGCGCGCACCCTCCTG
18821 IS [CA] GCAAAGCTCGCGCCCTTCCCGGGGTCAGCGAGCAGGGGTGCCAGAGAGGGTGCGCGCCCTGC[CA]TCTGAGCCCGGGGTGACACTCGCCTCCCAAGCGCCAGGAGGGGGAGACTCGGTCCCGCTT
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19012 P G A ATGACGTGGCAGACGAAACAAAGGCCAGCTY
19012 P T A CGCGCCGAGGTAAACAAAGCCAGCTCY
19012 T G A GAGAGAGCTGGCCTTGTTTCCGCAGGCAATGTGCAGGTAGGGGGGG
19012 T T A GAGAGAGCTGGCCTTGTTTACGCAGGCAATGTGCAGGTAGGGGGGG
19012 IS [GT] CAGGTGCGGGTGGTGAACCCAGTGCAGGGCTGTTCCCCCCCTACCTGCACATTGCCTGCG[GT]AAACAAAGGCCAGCTCTCTCCTCATTTTCTCCGTGTTGCTTTCCAACAGCAGCTGACTGG
19135 I S AGGTGGAGGGGGAGCTACCTACTTGTCA
19135 P G S ATGACGTGGCAGACCGAGTGCATTTTCCAATCY
19135 P A S CGCGCCGAGGTGAGTGCATTTTCCAATCCY
19135 T G S AGAAGGATTGGAAAATGCACTCGGACCAAGTAGGTAGCTCCCCCTCCACCTCA
19135 T A S AGAAGGATTGGAAAATGCACTCAGACCAAGTAGGTAGCTCCCCCTCCACCTCA
19135 IS [GA] GCTCACCCATCAAGTTTATAAAGACAAGAAAAACTAAAAGAAGGATTGGAAAATGCACTC[GA]GACCAAGTAGGTAGCTCCCCCTCCACCTCAACAAAAGGACCTGCATGGAAAACCTAAGTT
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19188 P G S ATGACGTGGCAGACCTCTCCAGTTCAGAGCAY
19188 P A S CGCGCCGAGGTTCTCCAGTTCAGAGCAY
19188 T G S AGGATGCTCTGAACTGGAGAAGGATTCCTCTGGCCTCTTCAGAAGTCTGAAGACTTCTTTCCAT
19188 T A S AGGATGCTCTGAACTGGAGAAGATTCCTCTGGCCTCTTCAGAAGTCTGAAGACTTCTTTCCAT
19188 IS [CA] TGTGAGTTGTCAGATCACCCCATGTCAGCTCAGTGTTCAGAGGATGCTCTGAACTGGAGA[CA]GATTCCTCTGGCCTCTTCAGAAGTCTGAAGACTTCTTTCCATTGTAAATAAAGATATGGG





Under 37 CFR 1.84(a)(2)(i) this drawing is a black and white photograph

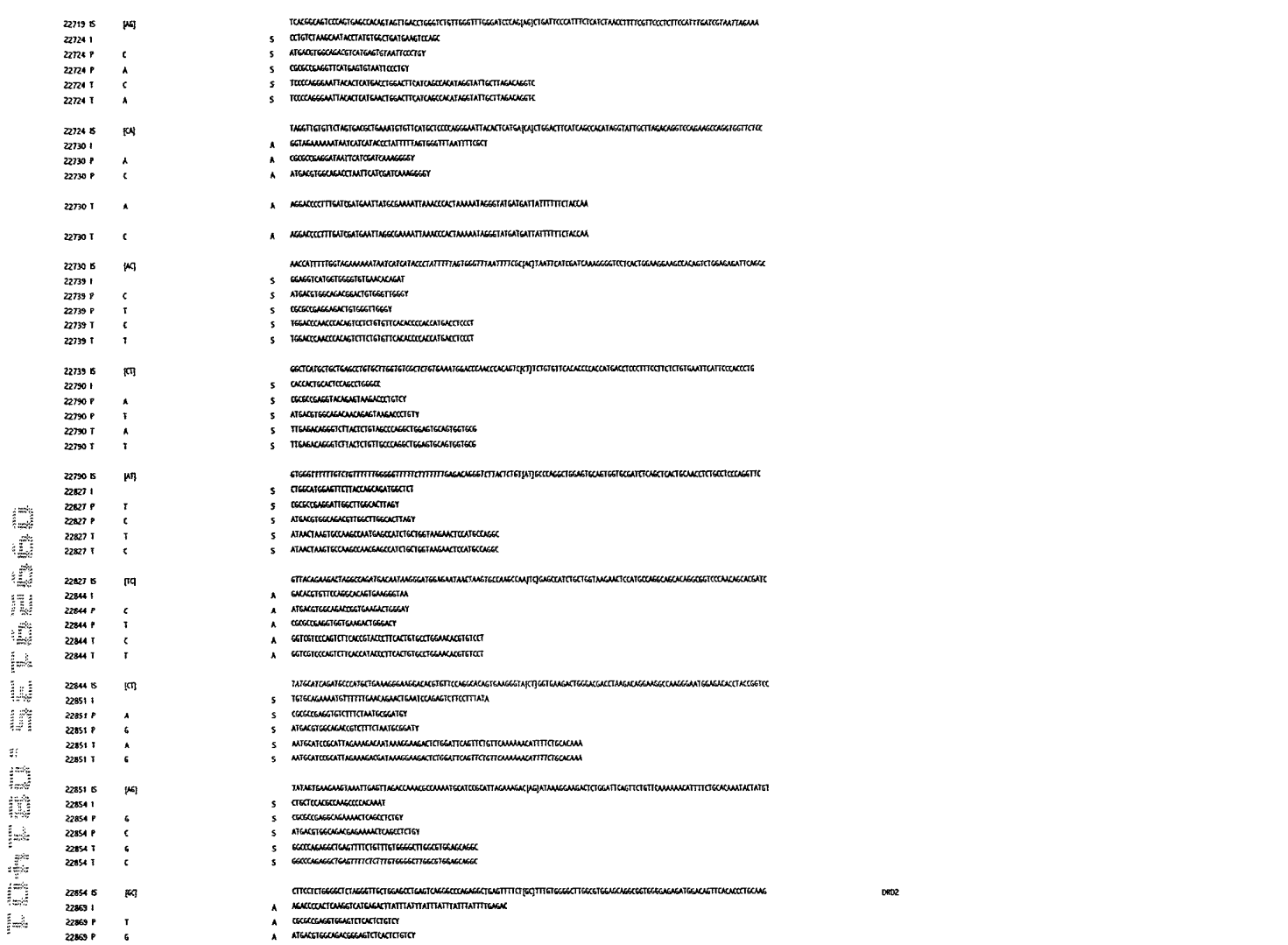
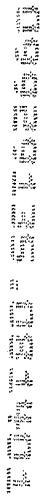


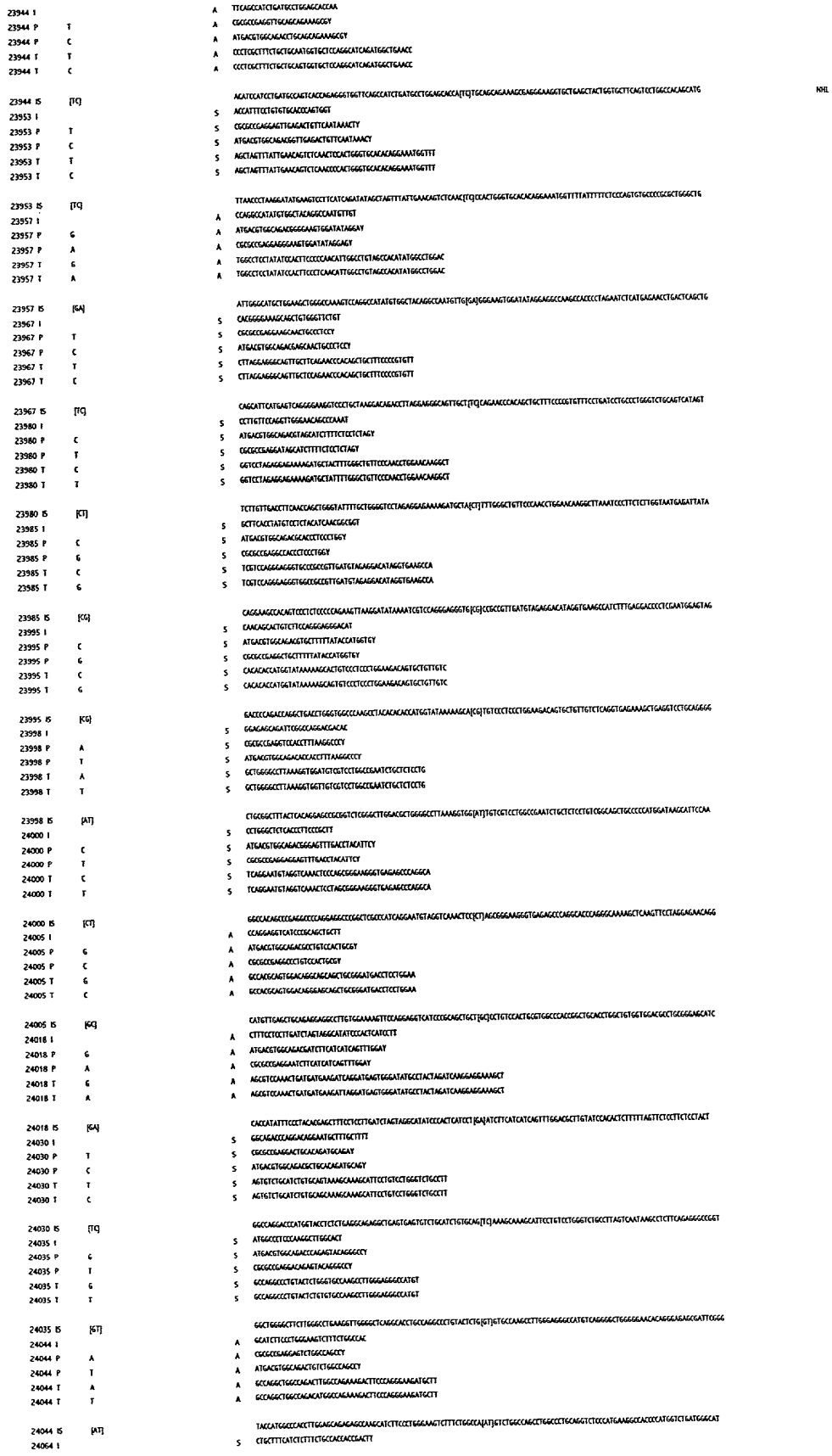
FIGURE 129F





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FIGURE 129F



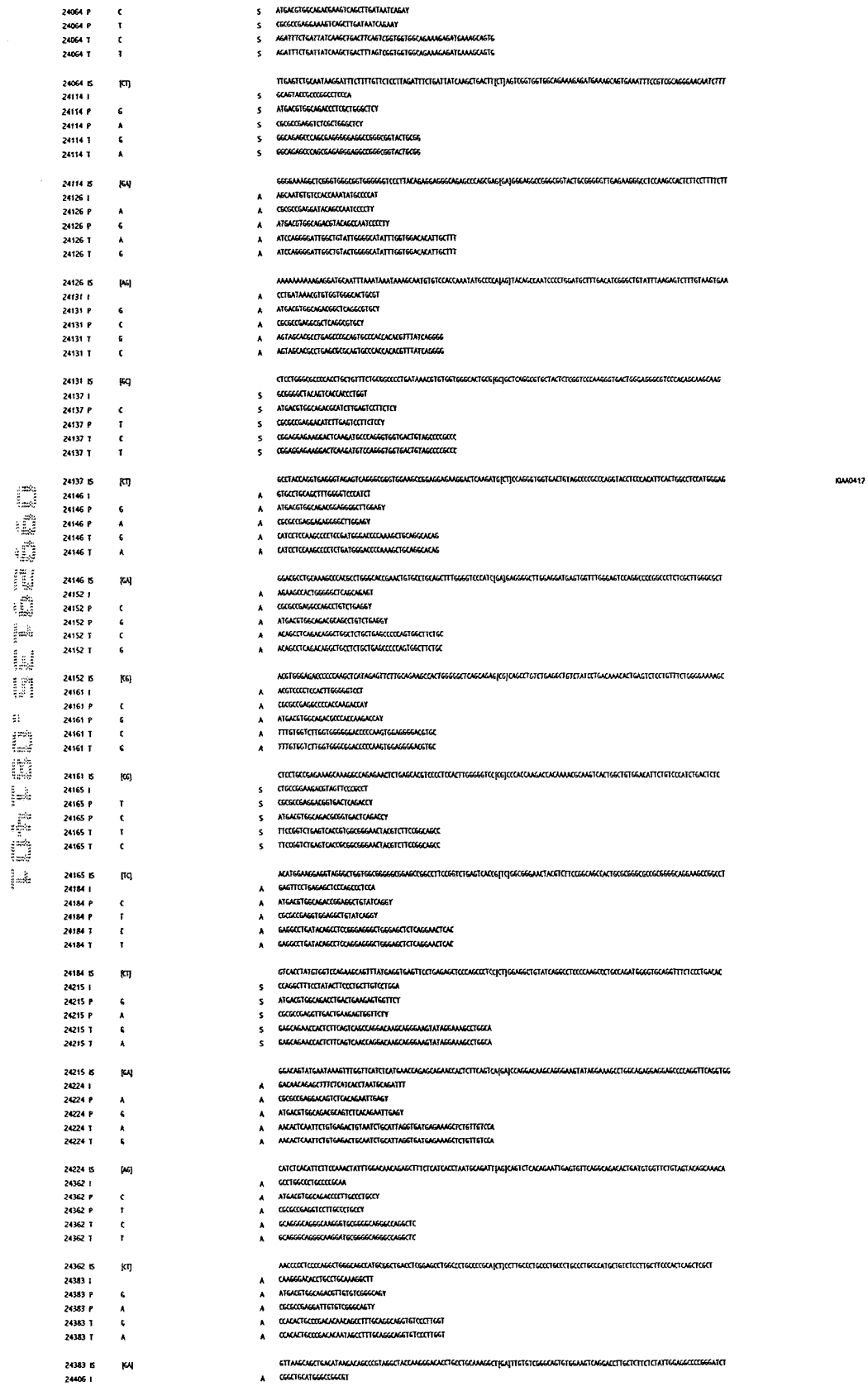
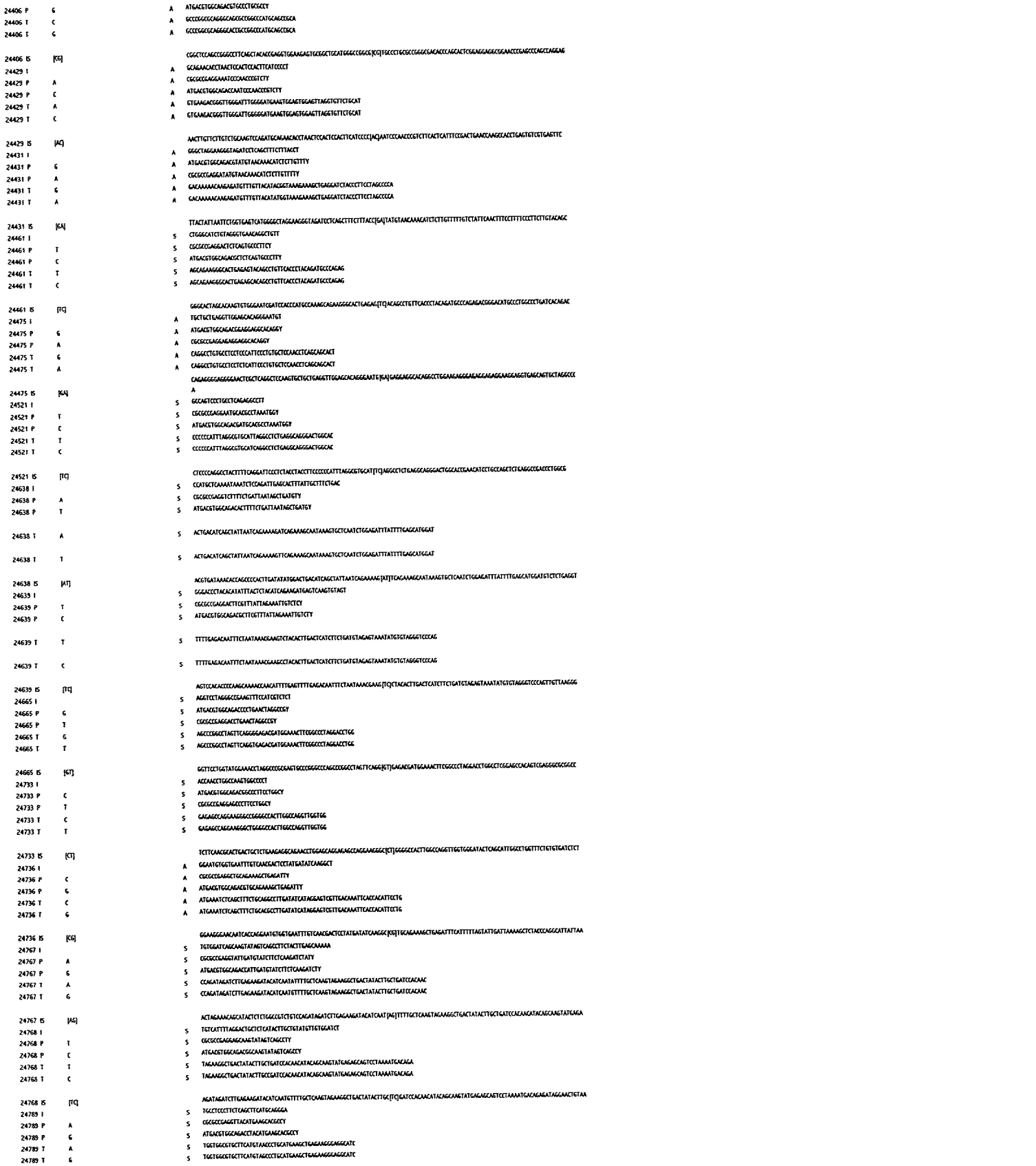
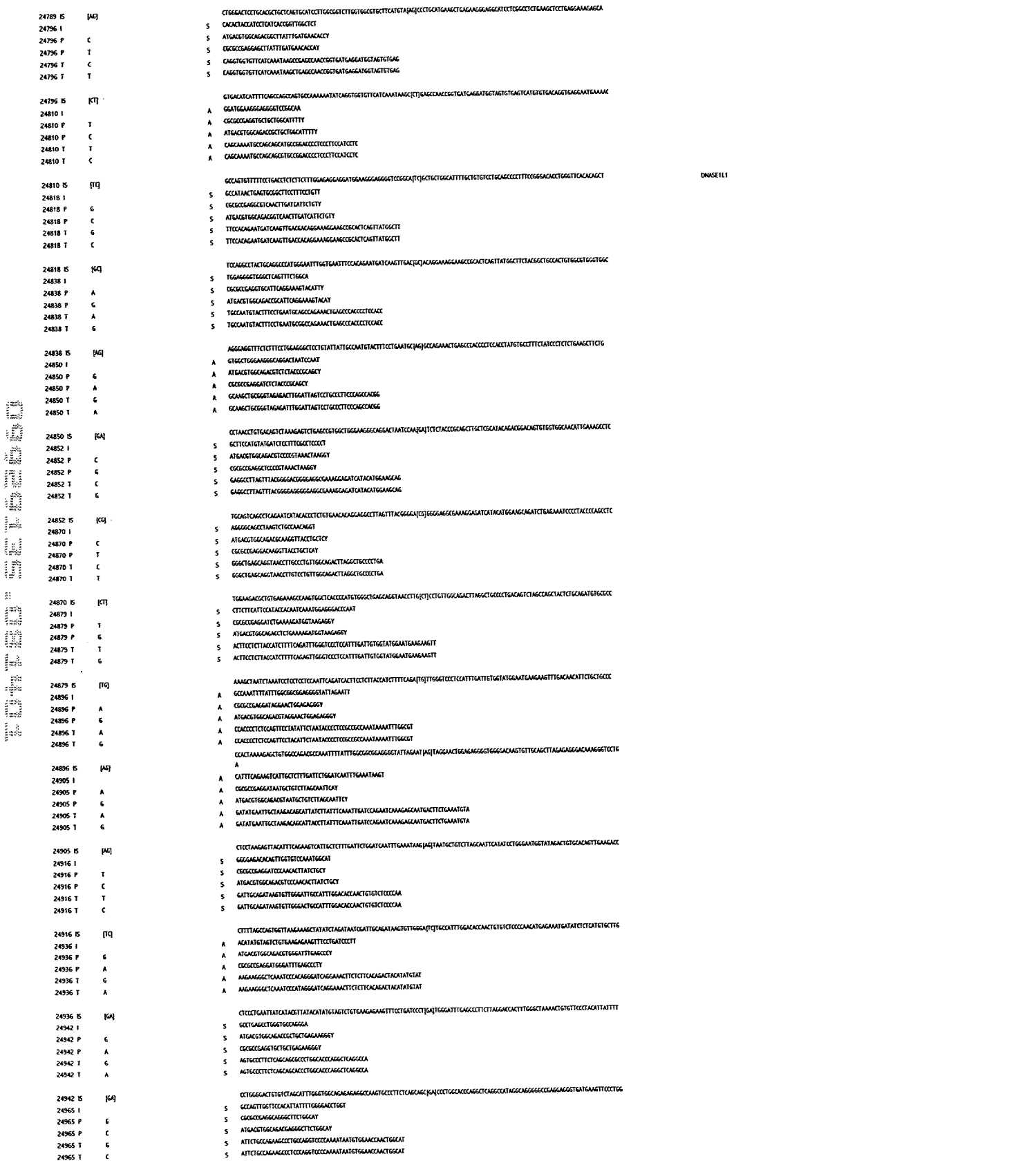

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24137 P T S CGCGCCGAGGAGATCTTGAGTCCTTCTCY
24137 T C S CGGAGGAGAAGGACTCAAGATGCCCAGGGTGGTGACTGTAGCCCCGCCC
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24146 T G A CATCCTCCAAGCCCCTCCGATGGGACCCCAAAGCTGCAGGCACAG
24146 T A A CATCCTCCAAGCCCCTCTGATGGGACCCCAAAGCTGCAGGCACAG
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FIGURE 129F



Attorney Docket No. 10191-2000

FIGURE 129F


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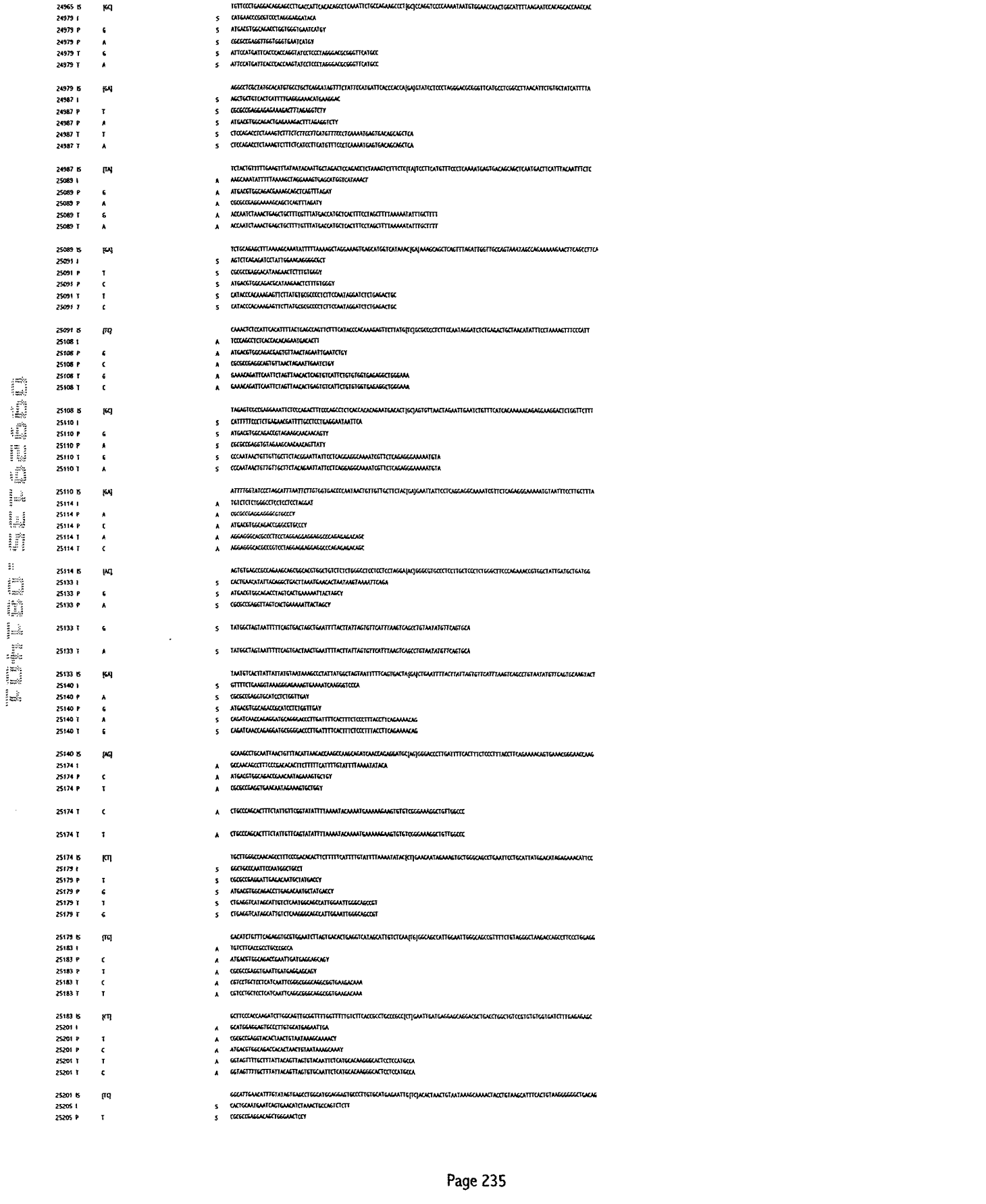
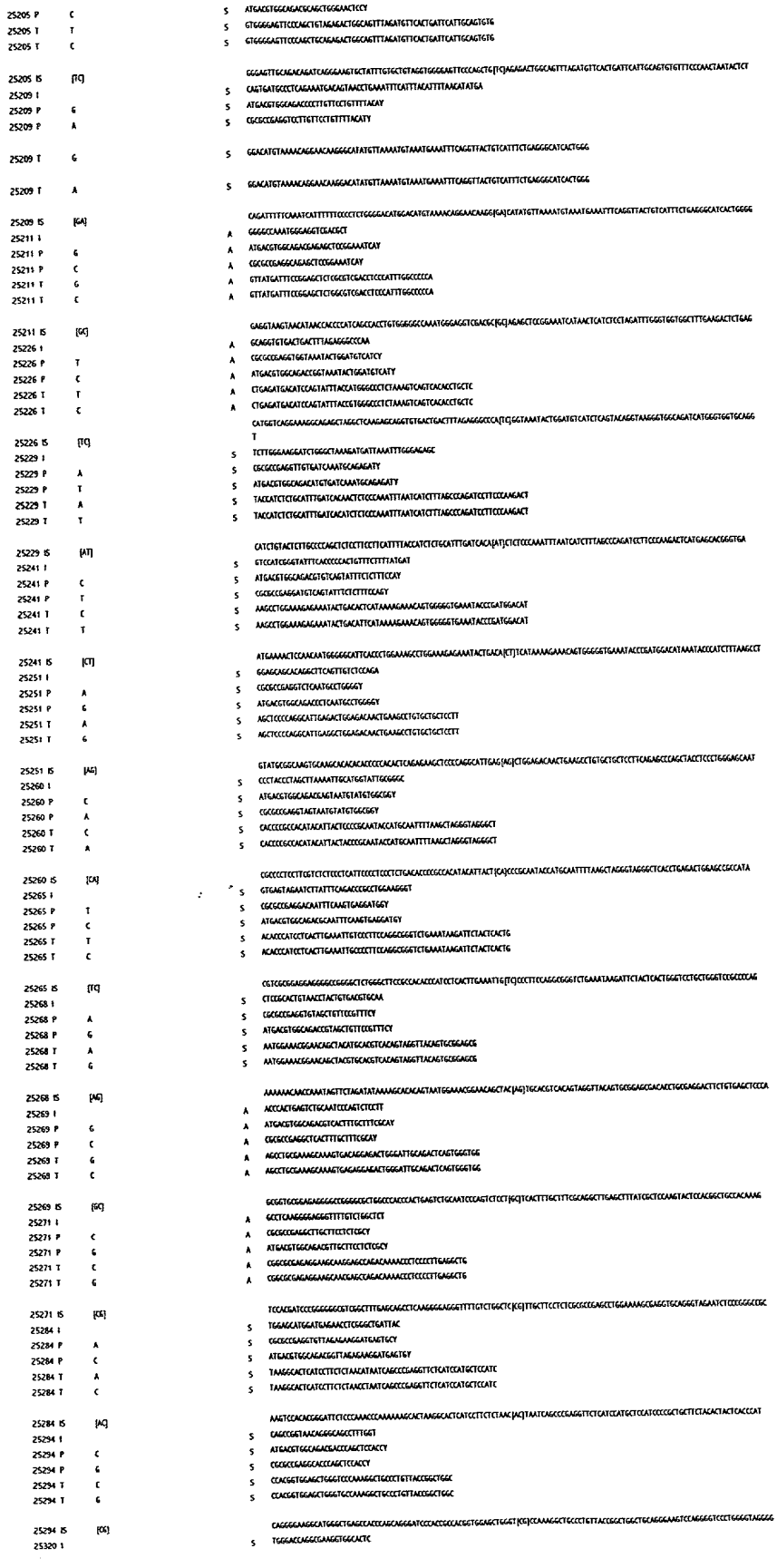


FIGURE 129F



Confidential Property of Applera Corporation

FIGURE 129F

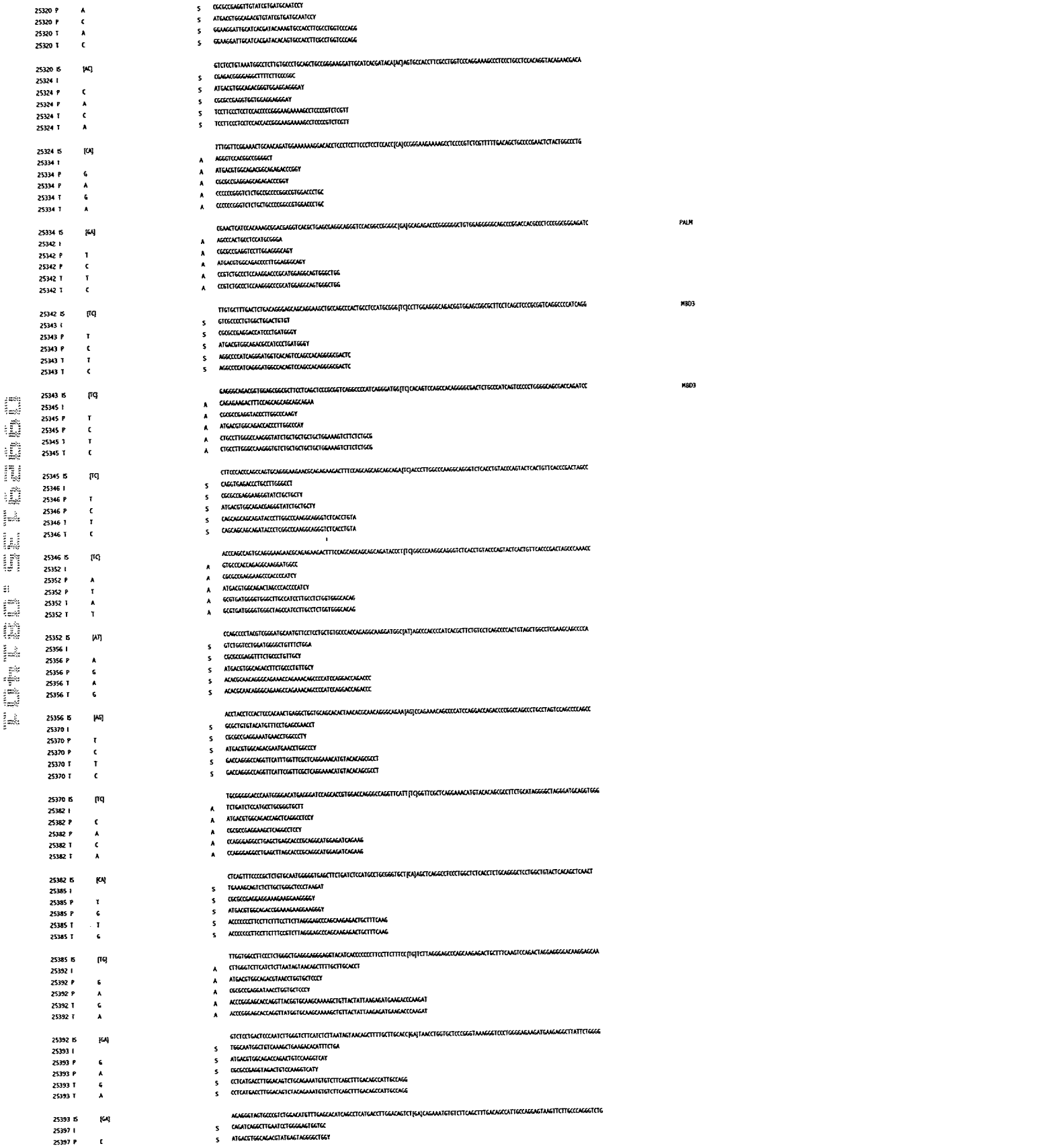
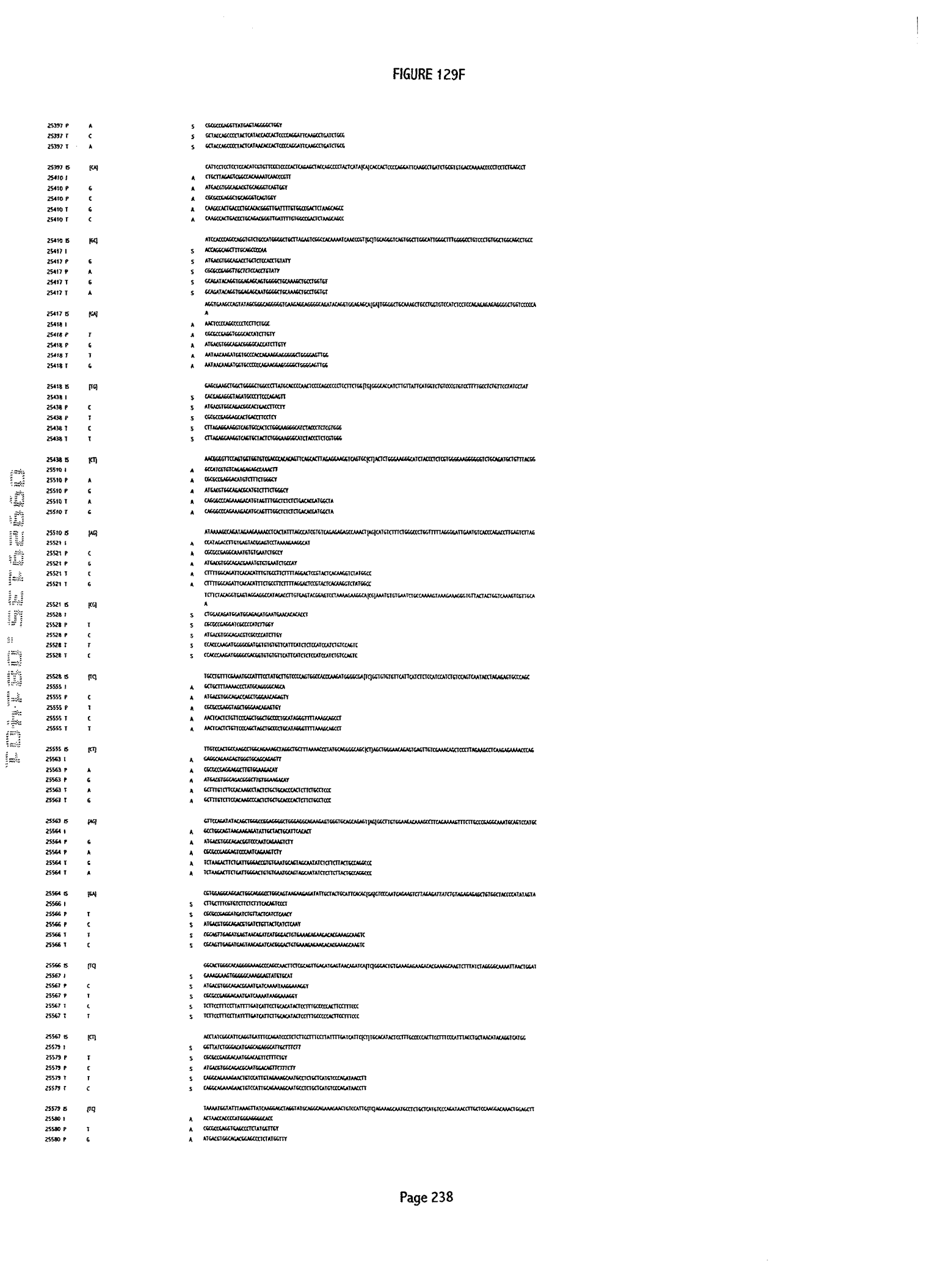


FIGURE 129F



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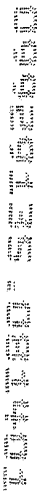


FIGURE 129F

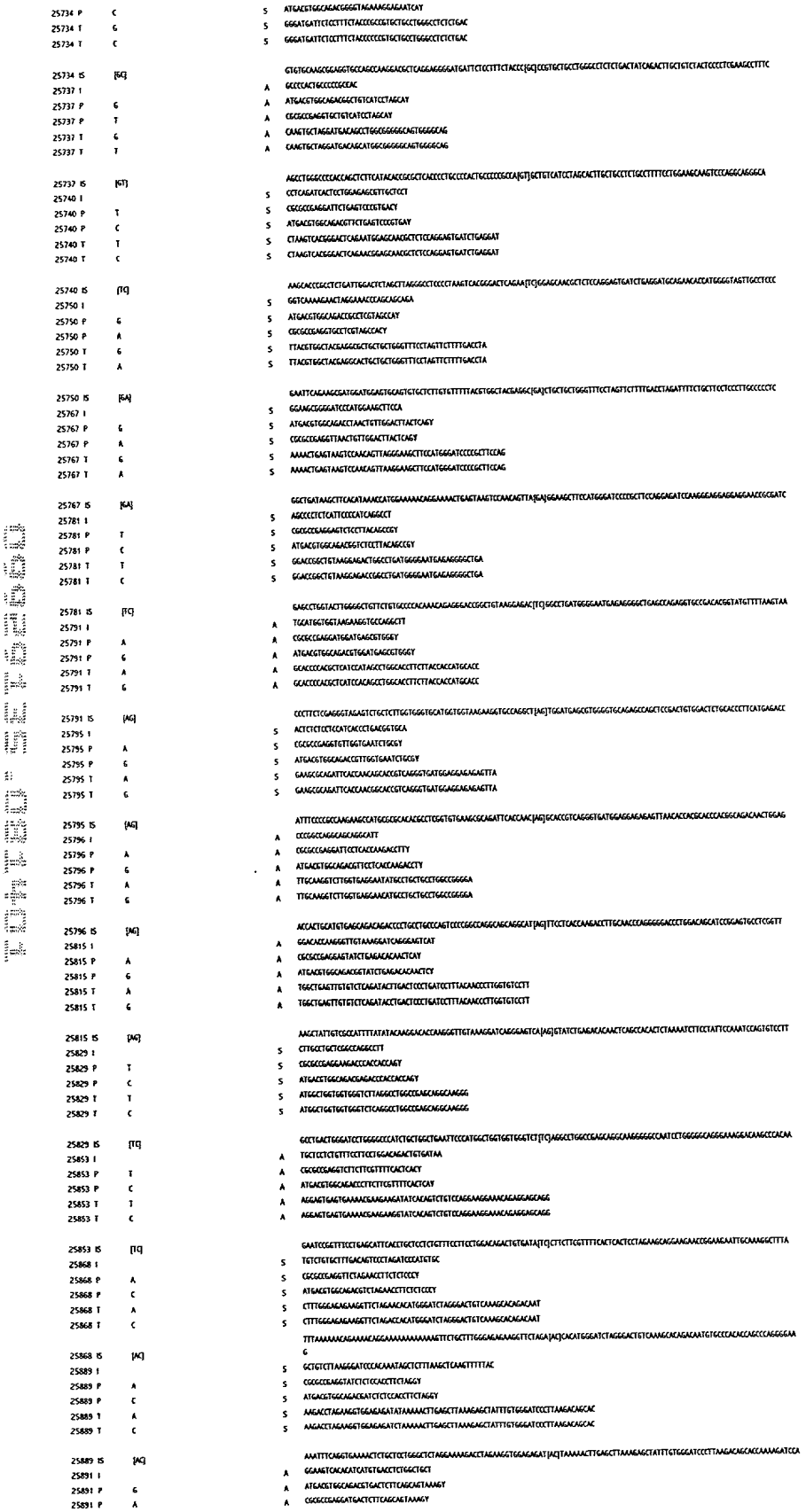
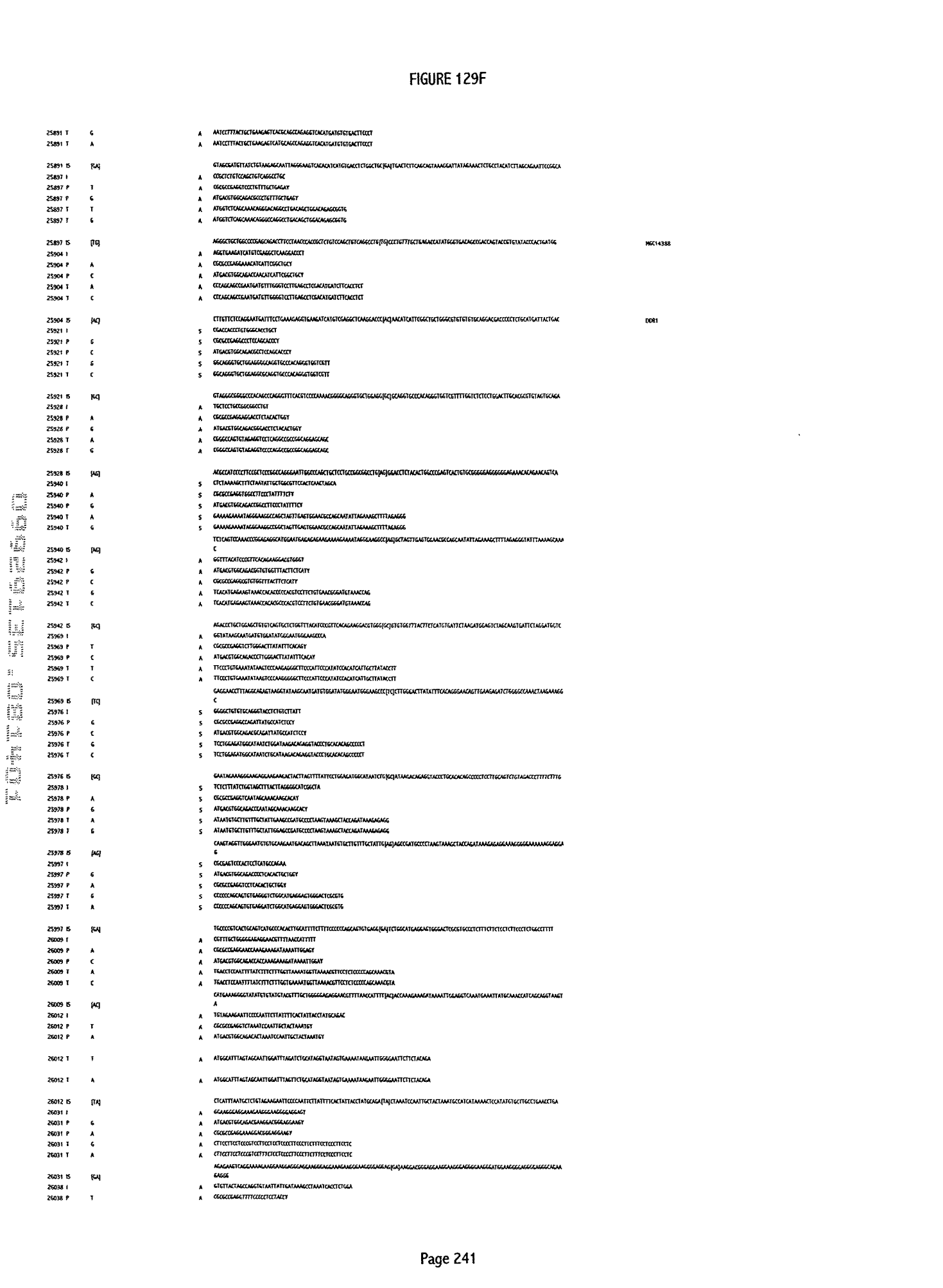


Exhibit 10.10 Confidential Treatment Requested

FIGURE 129F



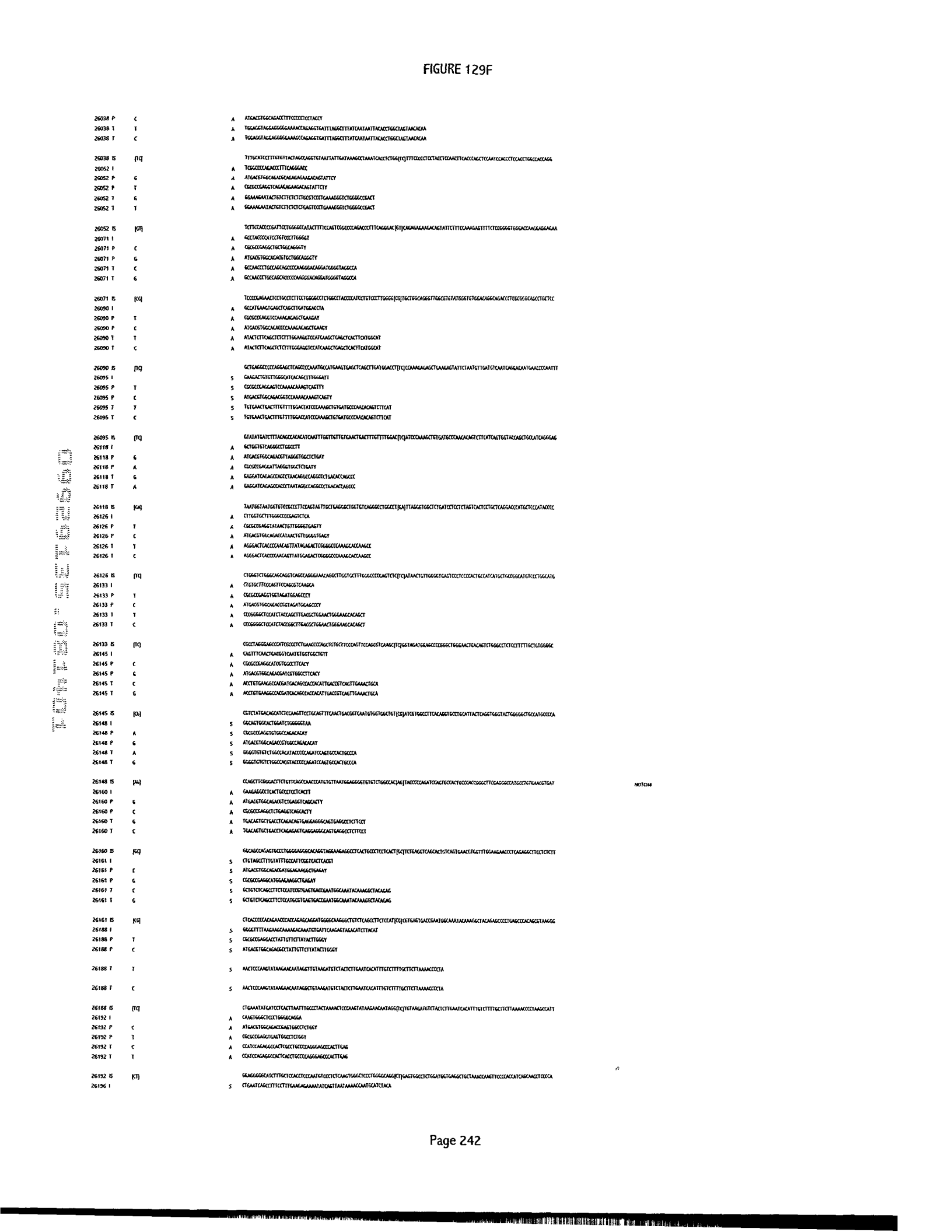
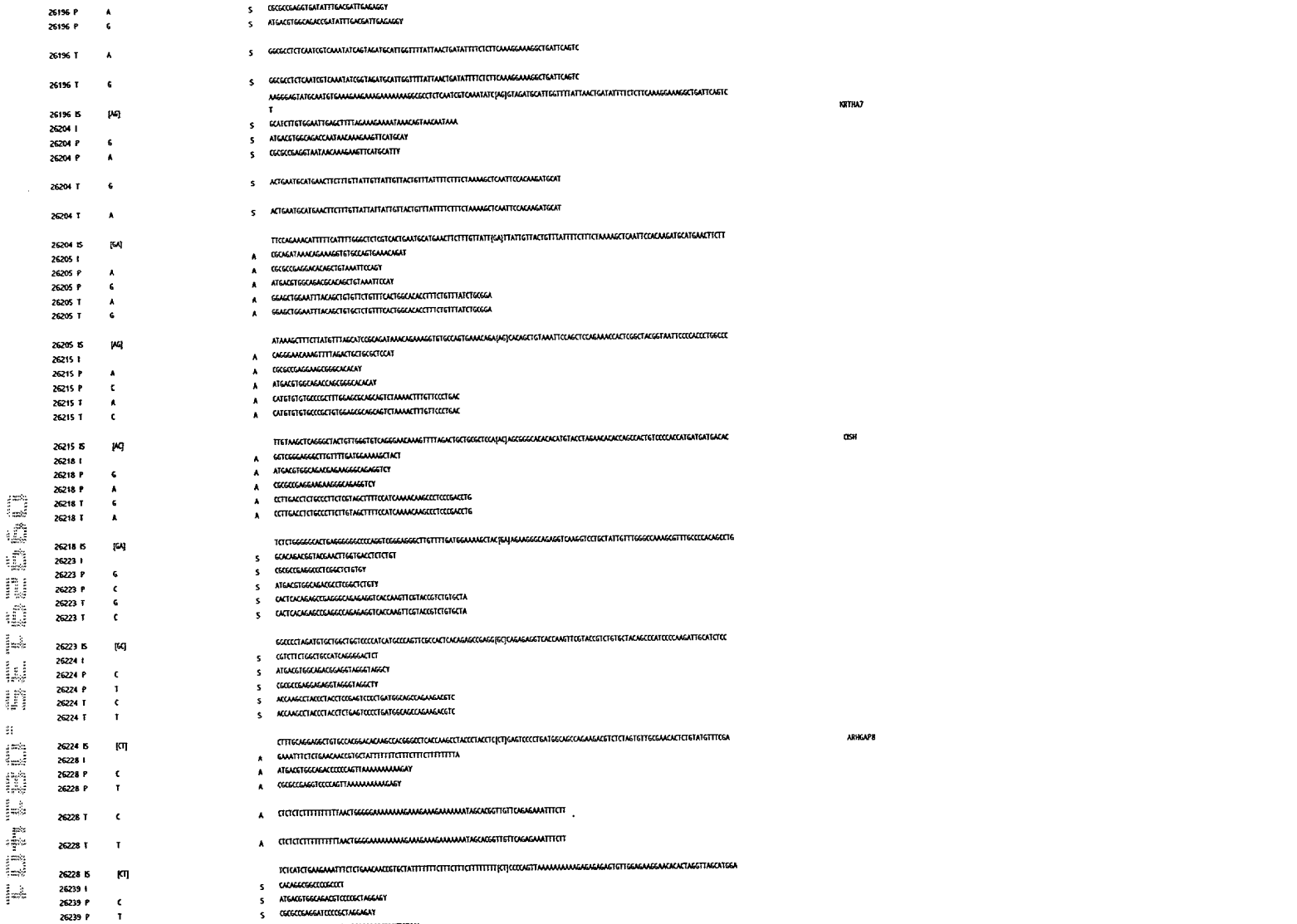

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26052 P G A ATGACGTGGCAGAGCAGAGAGAAGACAGTATTCY
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26052 T T A GGAAAGAATACTGTCTTCTCTCTGAGTCCCTGAAAGGGTCTGGGGCCCGACT
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26095 P C S ATGACGTGGCAGACGGTCCAAAACAAAGTCAGTY
26095 T T S TGTGAACTGACTTTGTTTTGGACTATCCCAAAGCTGTGATGCCCAACACAGTCTTCAT
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26118 P G A ATGACGTGGCAGAGGTTAGGGTGGCCTCTGAY
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26126 P T A CGCGCCGAGGTATAACTGTTGGGGTGAGTY
26126 P C A ATGACGTGCCAGACCATAACTGTTGGGGTGAGY
26126 T T A ACGGACTCACCCCAACAGTTATAGAGACTCGGGGCCCCAAAGCACCAAGCC
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26133 P C A ATGACGTGGCAGACCGGTAGATGGAGCCCY
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26133 T C A CCCGGGGCTCCATCTACCGGCTTGAGCGTGGAACTGGGAAGCACAGCT
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26145 P C A CGCGCCGAGGCATCGTGTGGCCTTCACY
26145 P G A ATGACGTGGCAGACGATCGTGGCCTTCACY
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26188 T C S AACTCCCAAGTATAAGAACAATAGGCTGTAAGATGTCTACTCTTGAATCACATTTGTCTTTTGCTTCTTAAAACCCCTA
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26192 T C A CCATCCAGAGGCCACTCGCCTGCCCCAGGGAGCCCACTTGAG
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26192 IS (CT) GGAGGGGGCATCTTTGCTCCACCTCCCCAATGTCCCTCTCAAGTGGGCTCCCTGGGGCAGG[CT]GAGTGGCCTCTGGATGGTGAGGCTGCTAAACCAAGTTCCCCACCATCAGCAACCTCCCCA
26196 I S CTGAATCAGCCTTTCCTTTGAAGACAAAATATCAGTTAATAAAACCAATGCATCTACA

FIGURE 129F



Applicant: Incyte Genomics, Inc. Attorney Docket No.: PI-0191 PCT Sequence Listing Page 1 of 1

FIGURE 129F

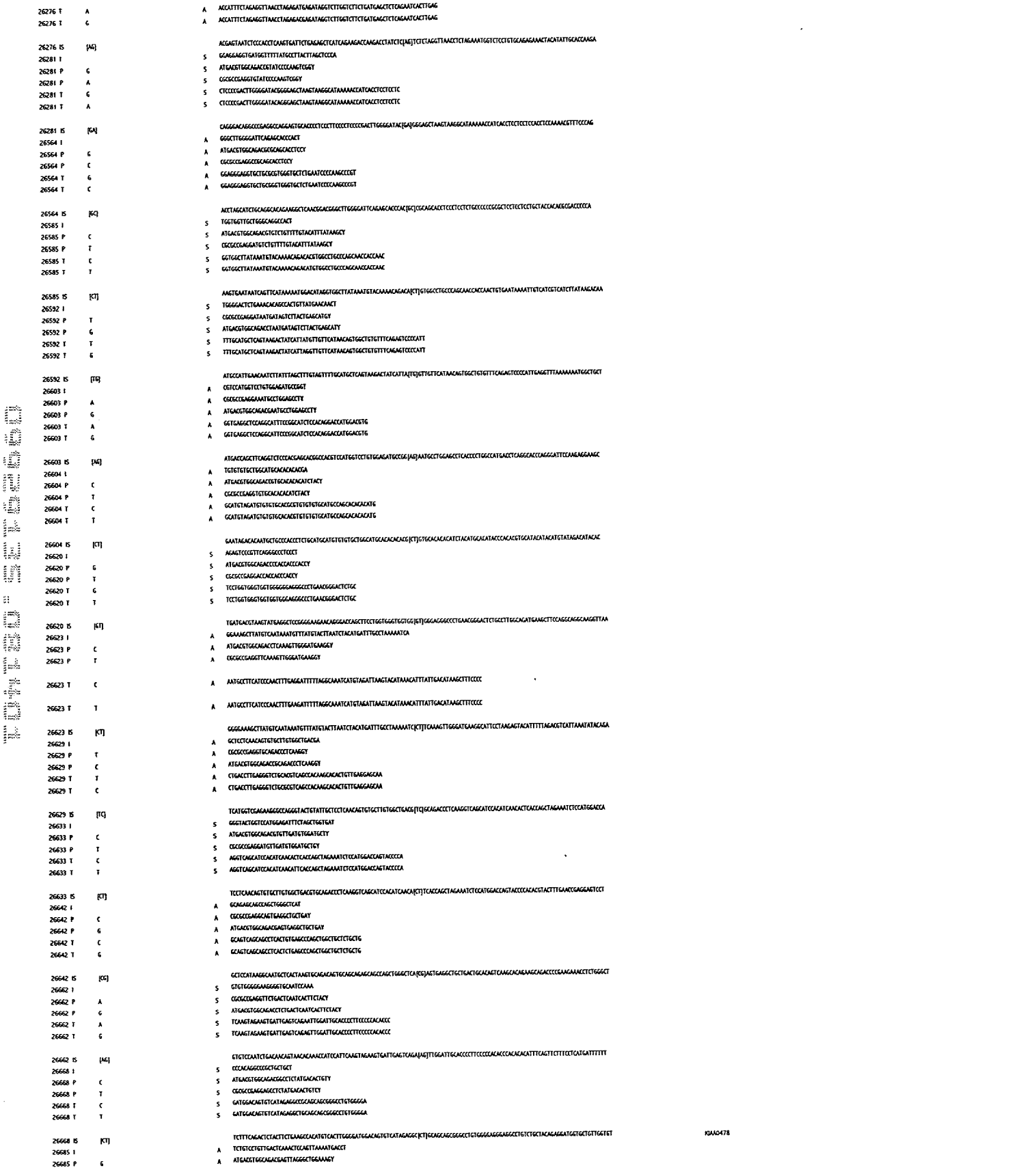


FIGURE 129F

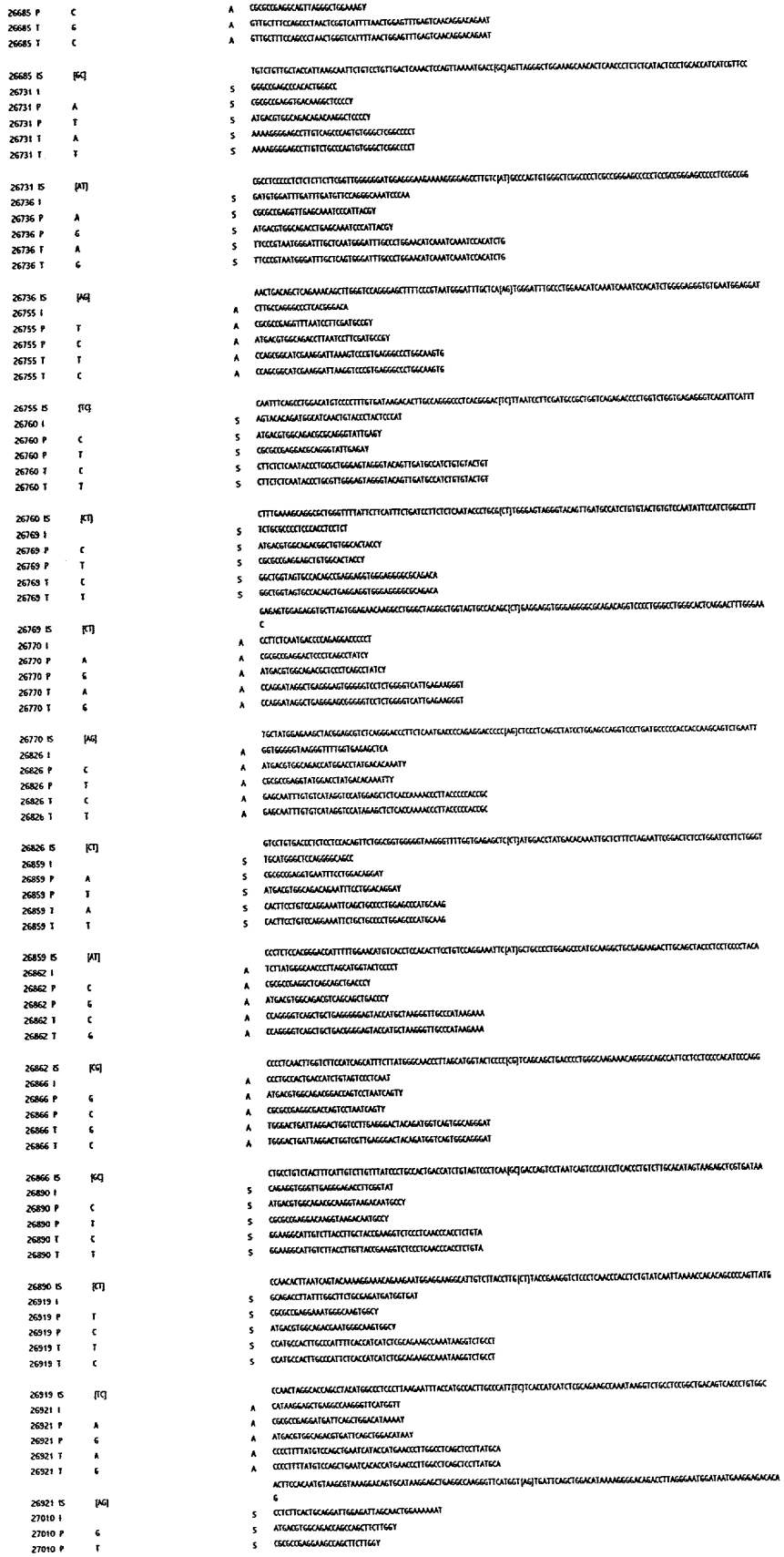


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FIGURE 129F

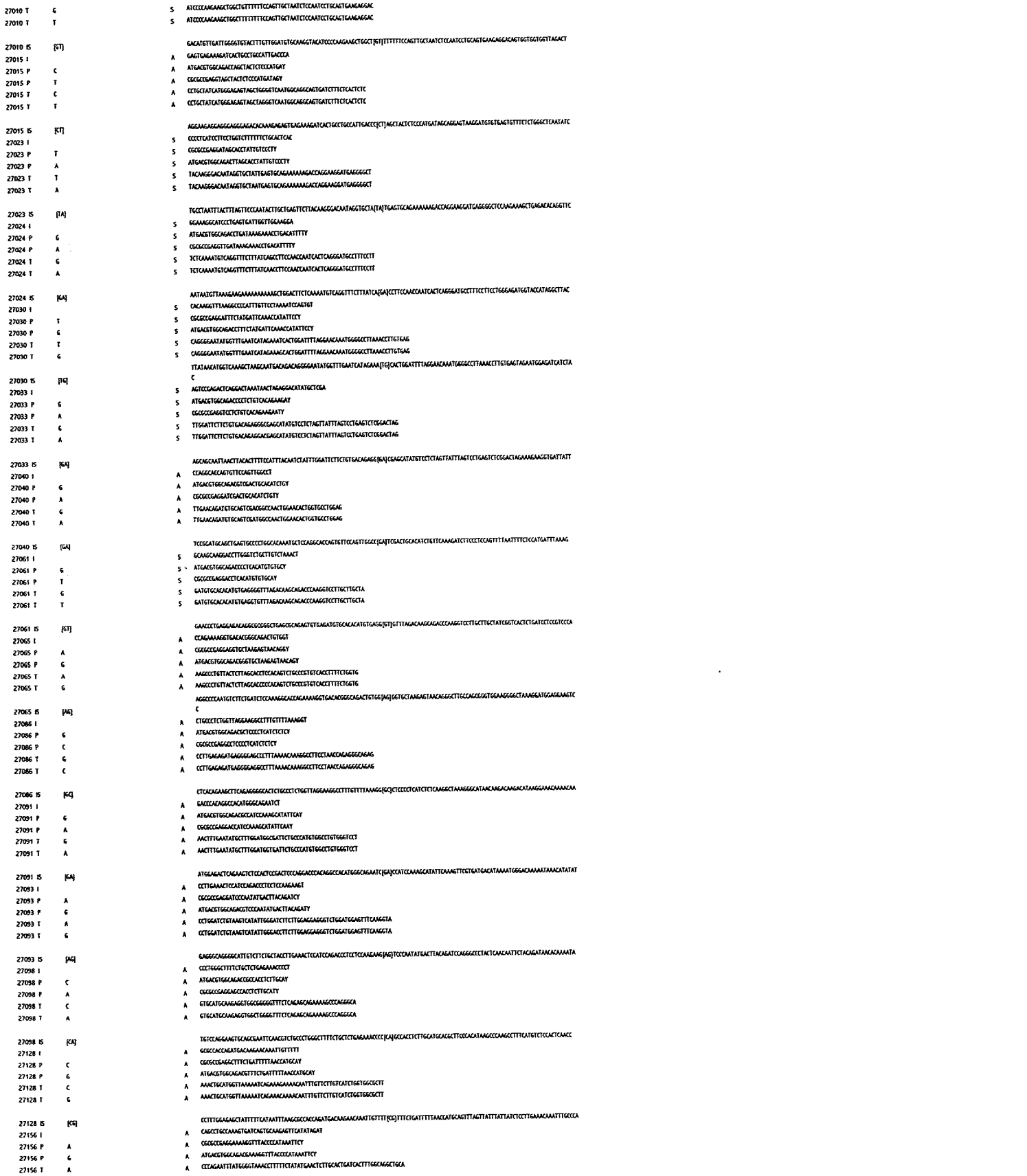


FIGURE 129F

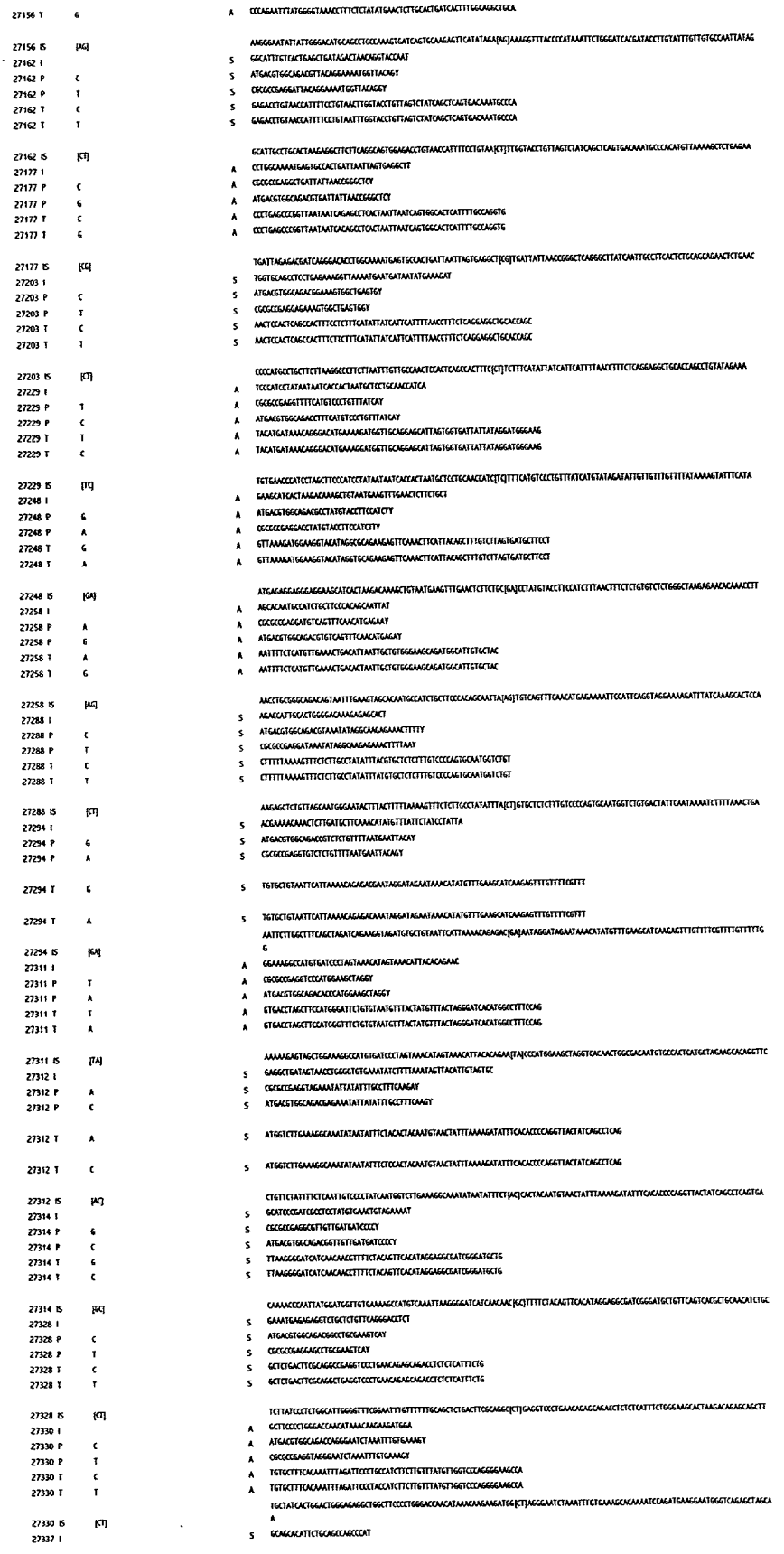


FIGURE 129F

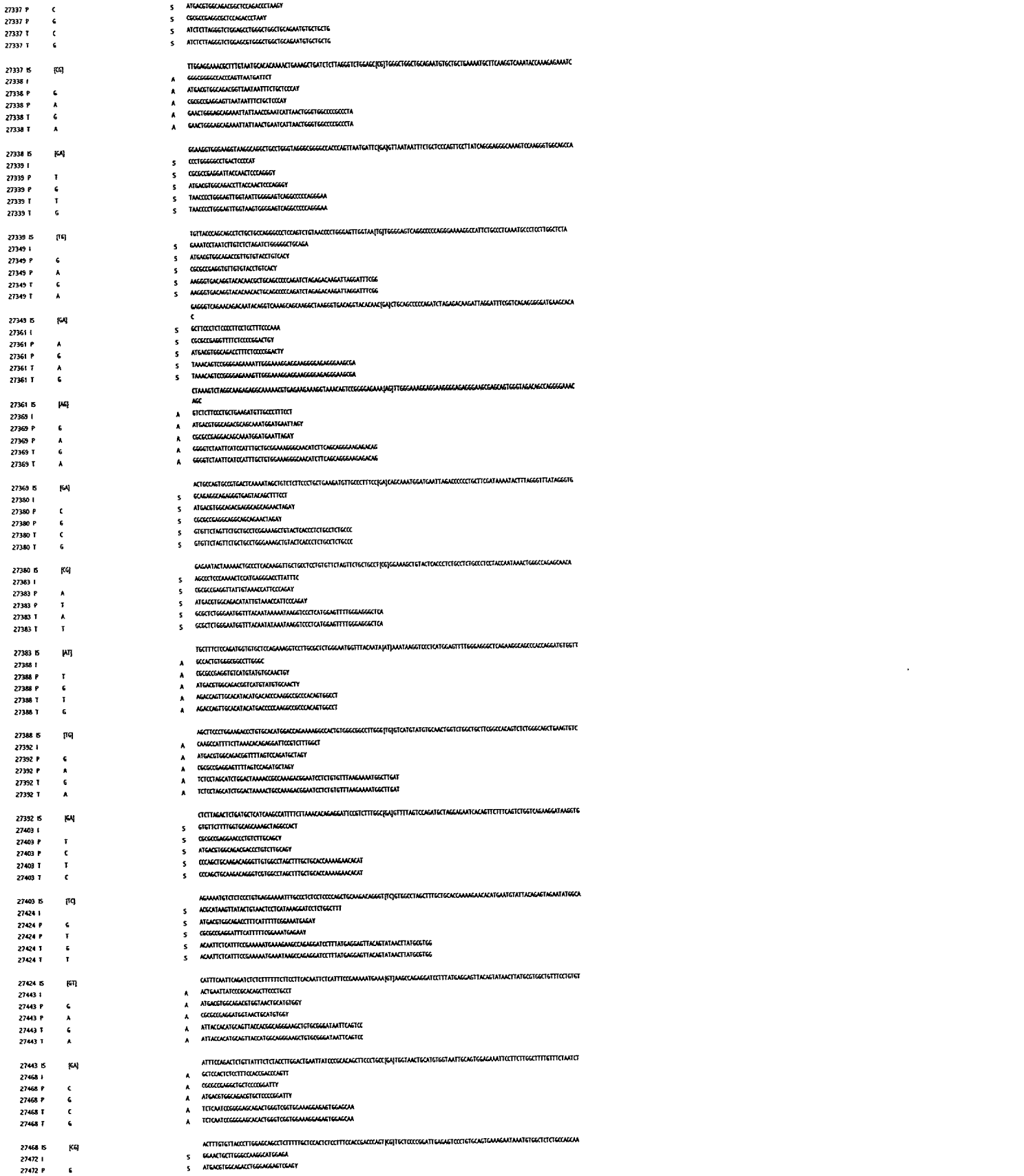


FIGURE 129F

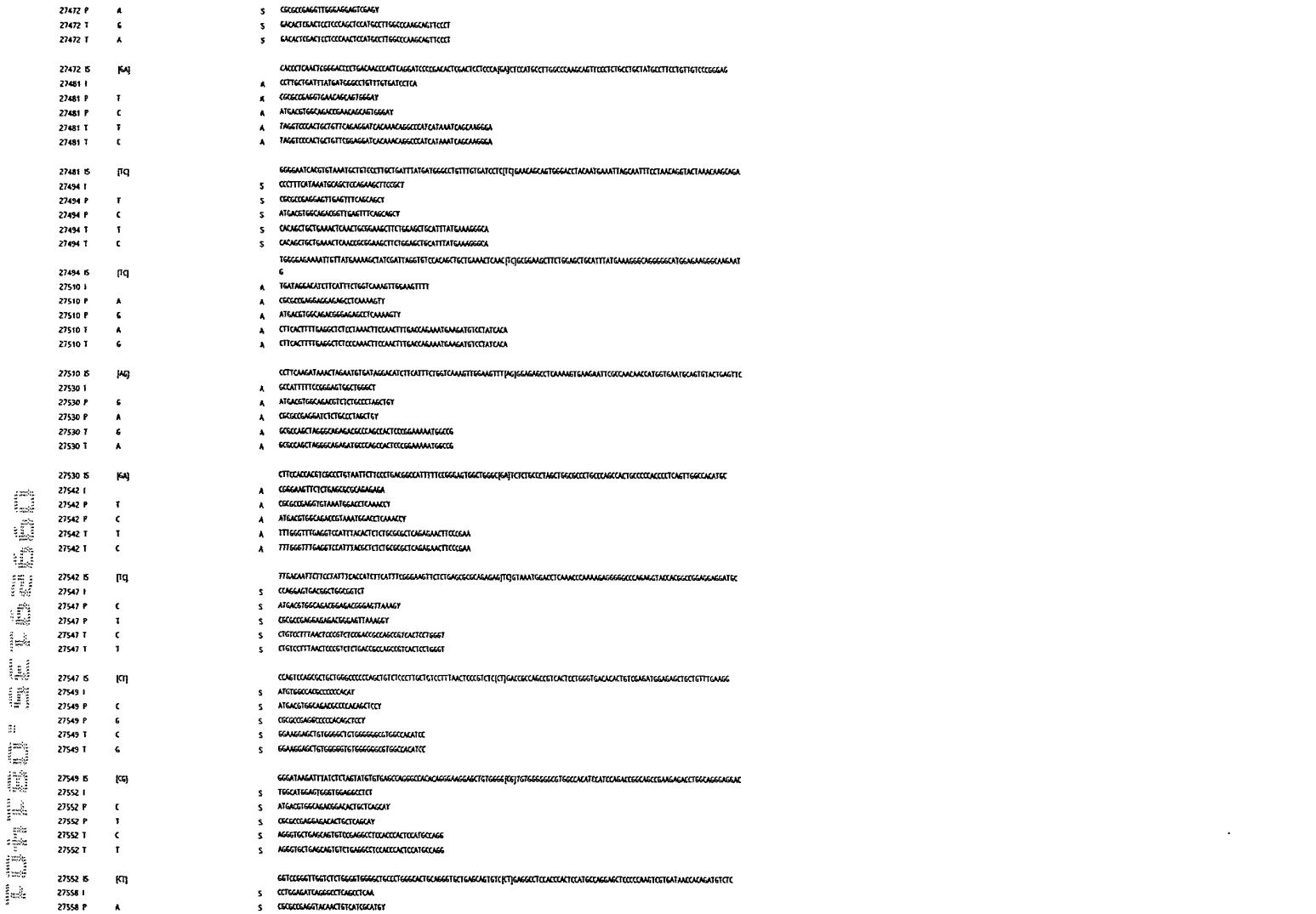
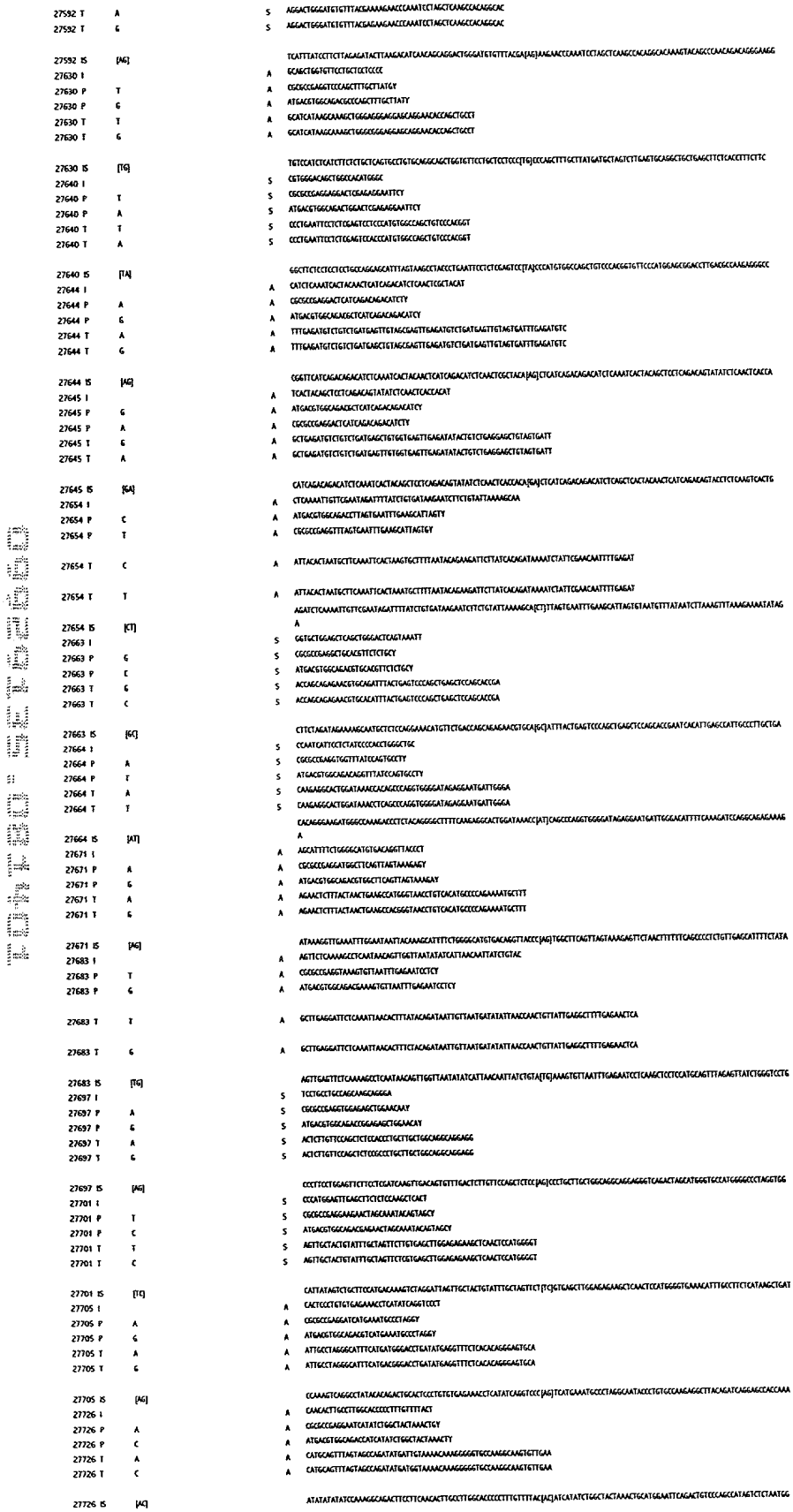

27472 P A S CGCGCGAGGTTGGGAGCAGTCGAGY
27472 T G S GACACTCGACTCCTCCCAGCTCCATGCCTTGGCCCAAGCAGTTCCCT
27472 T A S GACACTCGACTCCTCCCAACTCCATGCCTTGGCCCAAGCAGTTCCCT
27472 IS [GA] CACCCTCAACTCGGGCACCCTGACAACCCACTCAGGATCCCCGACACTCGACTCCTCCCA[GA]CTCCATGCCTTGGCCCAAGCAGTTCCCTCTGCCTGCTATGCCTTCCTGTTGTCCCGGGAG
27481 I A CCTTGCTGATTTATGATGGGCCTGTTTGTGATCCTCA
27481 P T K CGCGCCGAGGTGAACAGCAGTGGGAY
27481 P C A ATGACGTGGCAGACCGAACAGCAGTGGGAT
27481 T T A TAGGTCCCACTGCTGTTCAGACGATCACAAACAGGCCCATCATAAATCAGCAAGGGA
27481 T C A TAGGTCCCACTGCTGTTCGGAGGATCACAAACAGGCCCATCATAAATCAGCAAGGGA
27481 IS [TC] GGGGAATCACGTGTAAATGCTGTCCCTTGCTGATTTATGATGGGCCTGTTTGTGATCCTC[TC]GAACAGCAGTGGGACCTACAATGAAATTAGCAATTTCCTAACAGCTACTAAACAAGCAGA
27494 I S CCCTTTCATAAATGCAGCTCCAGAAGCTTCCGCT
27494 P T S CGCGCCGAGGAGTTGAGTTTCAGCAGCT
27494 P C S ATGACGTGGCAGACGGTTGAGTTTCAGCAGCT
27494 T T S CACAGCTGCTGAAACTCAACTGCGGAAGCTTCTGGAGCTGCATTTATGAAAGGGCA
27494 T C S CACAGCTGCTGAAACTCAACCGCGGAAGCTTCTGGAGCTGCATTTATGAAAGGGCA
27494 IS [TC] TGGGGAGAAAATTGTTATGAAAAGCTATCGATTAGGTGTCCACAGCTGCTGAAACTCAAC[TC]GCGGAAGCTTCTGGAGCTGCATTTATGAAAGGGCAGGGGGGCATGGAGAAGGGCAAGAAT
27510 I A TGATAGGACATCTTCATTTCTGGTCAAAGTTGGAAGTTTT G
27510 P A A CGCGCCGAGGAGGAGAGCCTCAAAAGTY
27510 P G A ATGACGTGGCAGAGGGGAGAGCCTCAAAAGTY
27510 T A A CTTCACTTTTGAGGCTCTCCCAAACTTCCAACTTTGACCAGAAATGAAGATGTCCTATCACA
27510 T G A CTTCACTTTTGAGGCTCTCCCAAACTTCCAACTTTGACCAGAAATGAAGATGTCCTATCACA
27510 IS [AG] CCTTCAAGATAAACTAGAATGTGATAGGACATCTTCATTTCTGGTCAAAGTTGGAAGTTT[AG]GGAGAGGCTCAAAAGTGAAGAATTCGCCAACAACCATGGTGAATGCAGTGTACTGAGTTC
27530 I A GCCATTTTTCCCGGGAAGTGGCTGGGCT
27530 P G A ATGACGTGGCAGAGGTCTCTGCCCTAGCTGY
27530 P A A CGCGCCGAGGATCTCTGCCCTAGCTGY
27530 T G A GCGCCAGCTAGGGCAGACGCCCAGCCACTCCCGGAAAAATGGCCG
27530 T A A GCGCCAGCTAGGGCAGAGATGCCCAGCCACTCCCGGAAAAATGGCCG
27530 IS [GA] CTTCCACCACCT[CGCCCTGTAATTCTTCCCTGAGGCCATTTTTCCGGGAGTGGCTGGGC[GA]TCTCTGCCCTAGCTGGCGCCCTGCCCAGCCACTGCCCCCACCCCTCAGTTGGCCACATGC
27542 I A CGGGAAGTTCTCTGAGCGCGCAGAGAGA
27542 P T A CGCGCCGAGGTGTAAATGGAGCTCAAACCY
27542 P C A ATGACGTGGCAGACCGTAAATGGAGCTCAAACCY
27542 T T A TTTGGGTTTGAGGTCCATTTACACTCTCTGCGGCTCAGAGAACTTCCCGAA
27542 T C A TTTGGGTTTGAGGTCCATTTAGCCTCTCTGCGGCTCAGAGAACTTCCCGAA
27542 IS [TC] TTGACAATTCTTCCTATTTCACCATCTTCATTTCGGGAAGTTCTCTGAGCGCGCAGAGAG[TC]GTAAATGGAGCTCAAACCCAAAAGAGGGGGCCCAGAGGTACCACGGCCGGAGGAGGATGC
27547 I S CCAGGAGTGACGGCTGGCGGTCT
27547 P C S ATGACGTGGCAGACGGAGACGGGAGTTAAAGY
27547 P T S CGCGCCGAGGAGAGACGGGAGTTAAAGY
27547 T C S CTGTCCTTTAACTCCCGTCTCCGCAACGCCAGCCGTCACTCCTGGGT
27547 T T S CTGTCCTTTAACTCCCGTCTCTGACTGCCAGCCGTCACTCCTGGGT
27547 IS [CT] CCAGTCCAGCGCTGCTGGGCCCCCAGCTGTCTCCCTTGCTGTCCTTTAACTCCCGTCTC[CT]GACCGCCAGCCGTCACTCCTGGGTGACACACTGTCGAGATGGAGAGCTGCTGTTTGAAGG
27549 I S ATGTGGCCAGCCCCCCACAT
27549 P C S ATGACGTGGCAGACGCCCCACAGCTCCY
27549 P G S CGCGCCGAGGCCCCCACAGCTCCY
27549 T C S GGAAGCAGCTGTGGGGGCTGTGGGGGGCCTGGCCACATCC
27549 T G S GGAAGCAGCTGTGGGGGTGTGGGGGGCGTGGCCACATCC
27549 IS [CG] GGGATAAGATTTATCTCTAGTATGTGTGAGCCAGGGCCACACAGGGAAGGAGCTGTGGGG[CG]TGTGGGGGGCGTGGCCACATCCATCCAGACCGGCCAGCCGAAGAGACCTGGCAGGCAGGAC
27552 I S TGGCATGGAGTGGGTGGAGGCCTCT
27552 P C S ATGACGTGGCAGACGGACACTGCTCAGCAY
27552 P T S CGCGCCGAGGAGACACTGCTCAGCAY
27552 T C S AGGGTGCTGAGCAGTGTCCGAGGCCTCCACCCACTCCATGCCAGG
27552 T T S AGGGTGCTGAGCAGTGTCTGAGGCCTCCACCCACTCCATGCCAGG
27552 IS [CT] GGTCCGGGTTGGTCTCTGGGGTGGGGCTGCCCTGGGCACTGCAGGGTGCTGAGCAGTGTC[CT]GAGGCCTCCACCCACTCCATGCCAGGAGACTCCCCCAAGTCCTGATAACCACAGATGTCTC
27558 I S CCTGGAGATCAGGGCCTCAGCCTCAA
27558 P A S CGCGCCGAGGTACAACTGTCATCGCATGY
27558 P G S ATGACGTGGCAGACCACAACTGTCATCGCATY
27558 T A S GATCCATGCGATGACAGTTGTGTGAGGCTGAGGCCCTGATCTCCAGGTG
27558 T G S GATCCATGCGATGACAGTTGTGTGAGGCTGAGGCCCTGATCTCCAGGTG
27558 IS [AG] GGCGCACCCTCCAGCTGGGGAAGTCCATGGGGTGTGGTGGGATCCATGCGATGACAGTTGT[AG]TGAGGCTGAGGCCCTGATCTCCAGGTGTGCCGCAGATCAAAGCAGCCGCATACCAGAGAA
27561 I A CCAGGAGGTGCCAGTGAGACCTGCAGT
27561 P G A ATGACGTGGCAGACGATGCCTTCCTGATGTCY
27561 P C A CGCGCCGAGGCATGCCTTCCTGATGTCY
27561 T G A GGTTGACATCAGGAAGGCATCCTGCAGGTCTCACTGGCACCTCCTGGGG
27561 T C A GGTTGACATCAGGAAGGCATGCTGCAGGTCTCACTGGCACCTCCTGGGG
27561 IS [GC] TGCATGGCCTGGCTGCCACAGGCTCCTCCAGGCCCAGGAGGTGCCAGTGAGACCTGCAG[GC]ATGCCTTCCTGATGTCAACCACCACCCTAGCTGGGACATCATGGTGTCCTGGGGCCTCC
27565 I A GCCCATAGCCAGCTGGTGGCTCAGT
27565 P C A CGCGCCGAGGCTCTCTGCAACATCTTTAGGY
27565 P G A ATGACGTGGCAGAGGTCTCTGCAACATCTTTAGGY
27565 T C A CCACCCTAAAGATGTTGCAGAGAGCTGAGCCACCAGCTGGCTATGGGCCT
27565 T G A CCACCCTAAAGATGTTGCAGAGAGCCTGAGCCACCAGCTGGCTATGGGCCT
27565 IS [CG] GGCACATGGAGAAACTGAGGTGTAGAGTAGTGAGAGGCCCATAGCCAGCTGGTGGCTCAG[CG]TCTCTGCAACATCTTTAGGGTGGGGCTGTGGAATGGTGGGCTGACTCTCAACAGGAGTTG
27576 I A CTCCTTTCCAACTCCAGCCCTCAATAGGCT
27576 P A A CGCGCCGAGGAGCTTGGAGGCCGY
27576 P G A ATGACGTGGCAGACGGCTTGGAGGCCGY
27576 T A A AGCTCGGCCTCCAAGCTGCCTATTGAGGGCGTGGAGTTGGAAAGGAGCC
27576 T G A AGCTCGGCCTCCAAGCCGCCTATTGAGGGCGTGGAGTTGGAAAGGAGCC
27576 IS [AG] ATGTGGGGGGTACCGAGGGGCCTTGCTTGGCTCCTTTCCAACTCCACGCCCTCAATAGGC[AG]GCTTGGAAGCCGAGCTCCGGTCATCCAAGCCAGGTGTCTGGGGAAGGGTCCTGGTCTGCC
27588 I A CGAATCCATTTAACTGGGCACAAGCAGGCAGA
27588 P T A CGCGCCGAGGTGGCACATGGTCACCY
27588 P C A ATGACGTGGCAGACCGGCACATGGTCACY
27588 T T A CGGAGGTGACCATGTGCCACTGCCTGCTTGTGCCCAGTTAAATGGATTCGGG
27588 T C A CGGAGGTGACCATGTGCCGCTGCCTGCTTGTGCCCAGTTAAATGGATTCGGG
27588 IS [TC] CCACTATTTAAATCCGCTAACAGAGTTCCCGAATCCATTTAACTGGGCACAAGCAGGCAG[TC]GGCACATGGTCACCTCCGTGGAGCTCCGGGATGCTGTGGGGCCCTTGCACGTTGAGCCA
27592 I S GCCTGTGGCTTGAGCTAGGATTTGGGTTCTTA
27592 P A S CGCGCCGAGGTTCGTAAACACATCCCAGY
27592 P G S ATGACGTGGCAGACCTCGTAAACACATCCCAGY

FIGURE 129F



Applicant's Docket No. 25,100-1 Serial No. 09/[illegible] Filed [illegible] Page [illegible] of [illegible]

FIGURE 129F

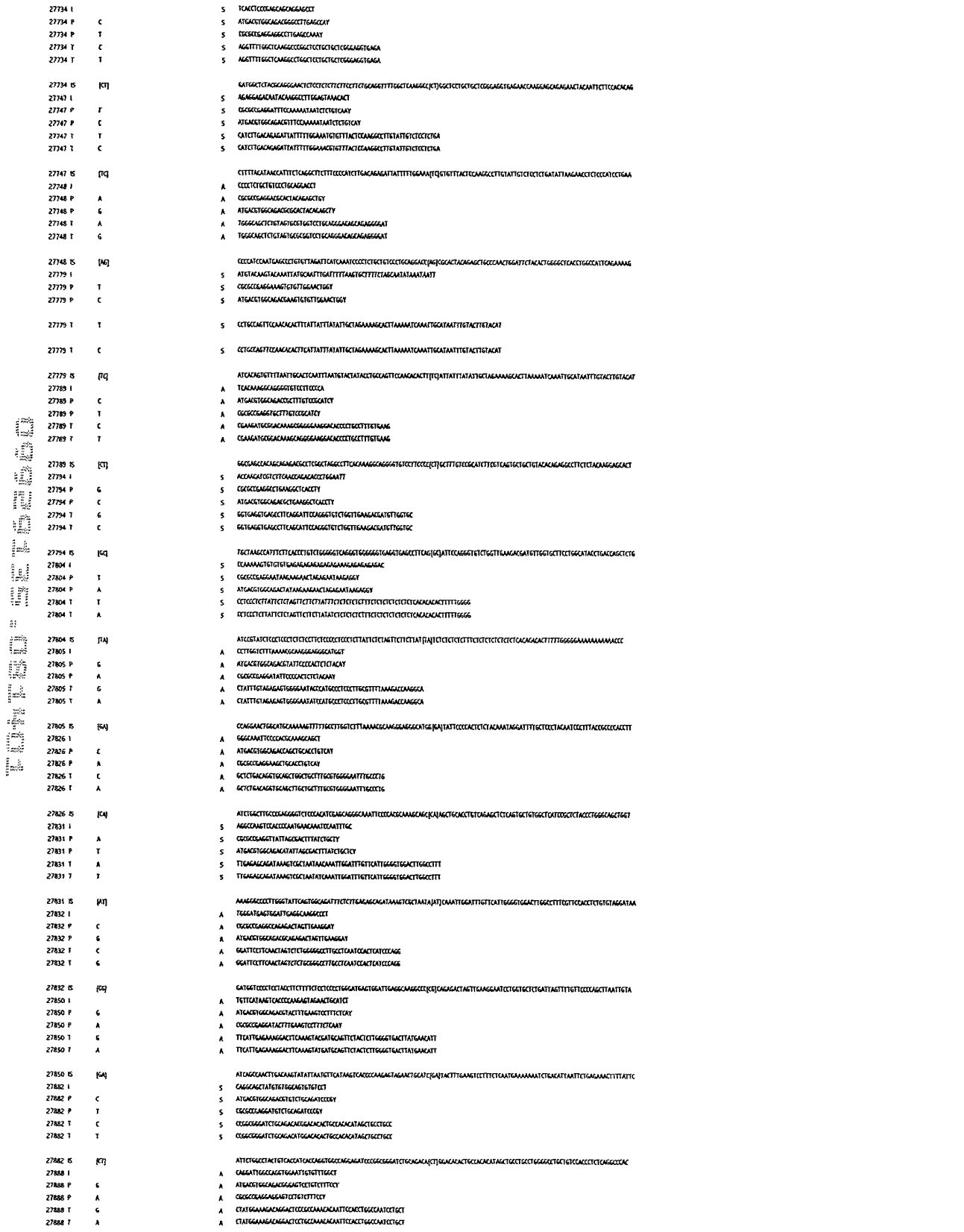
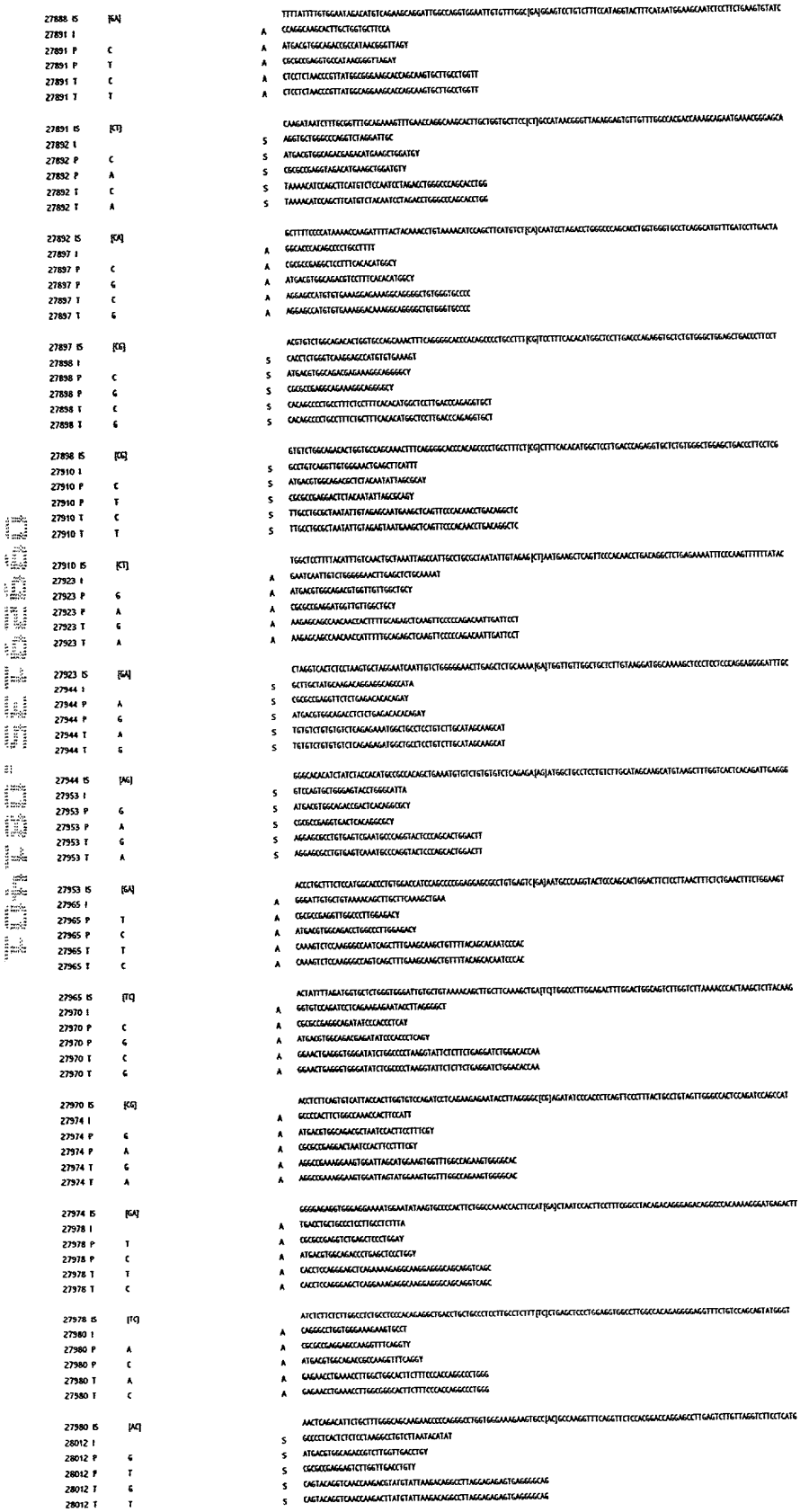


FIGURE 129F



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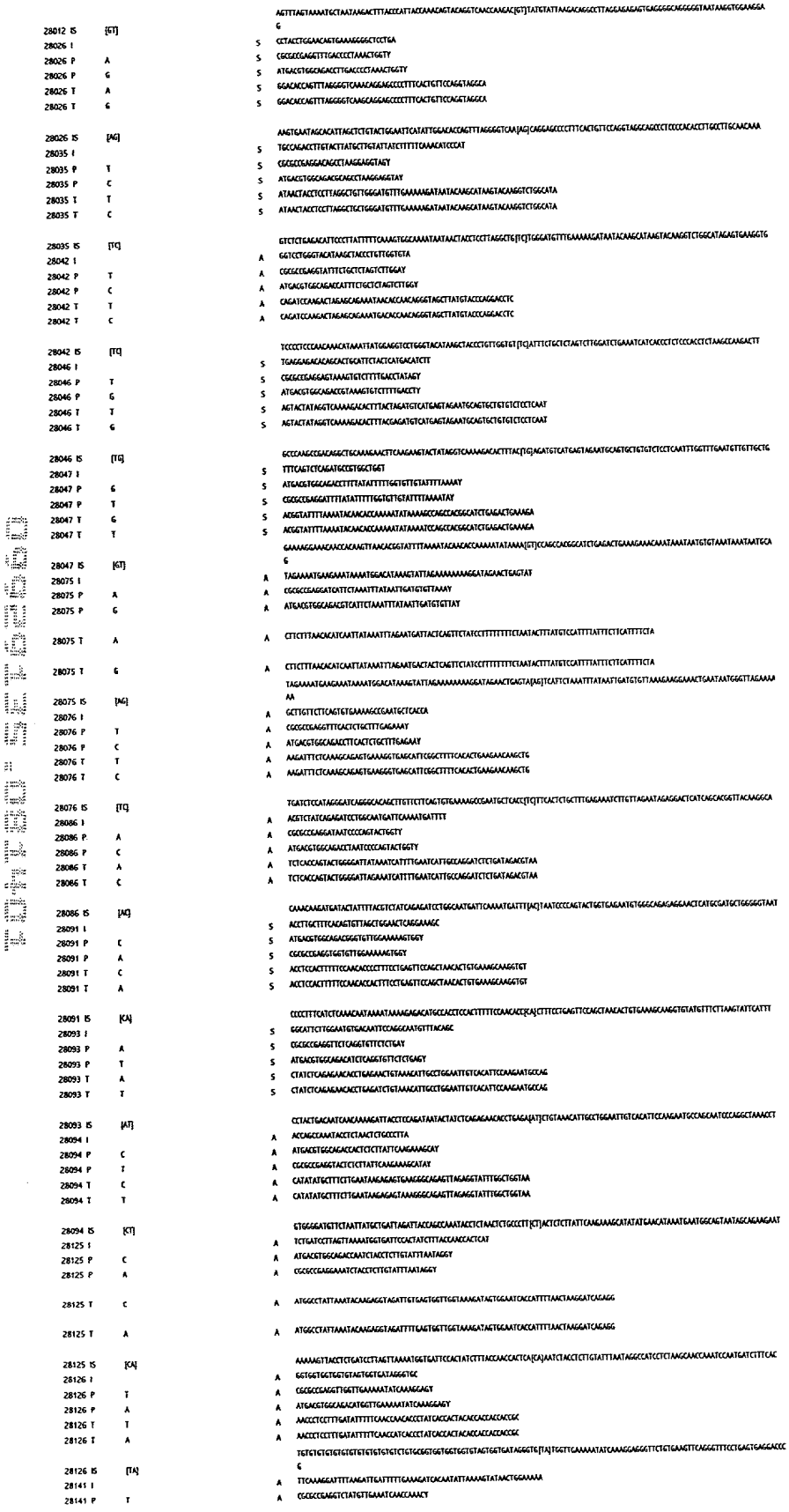


FIGURE 129F

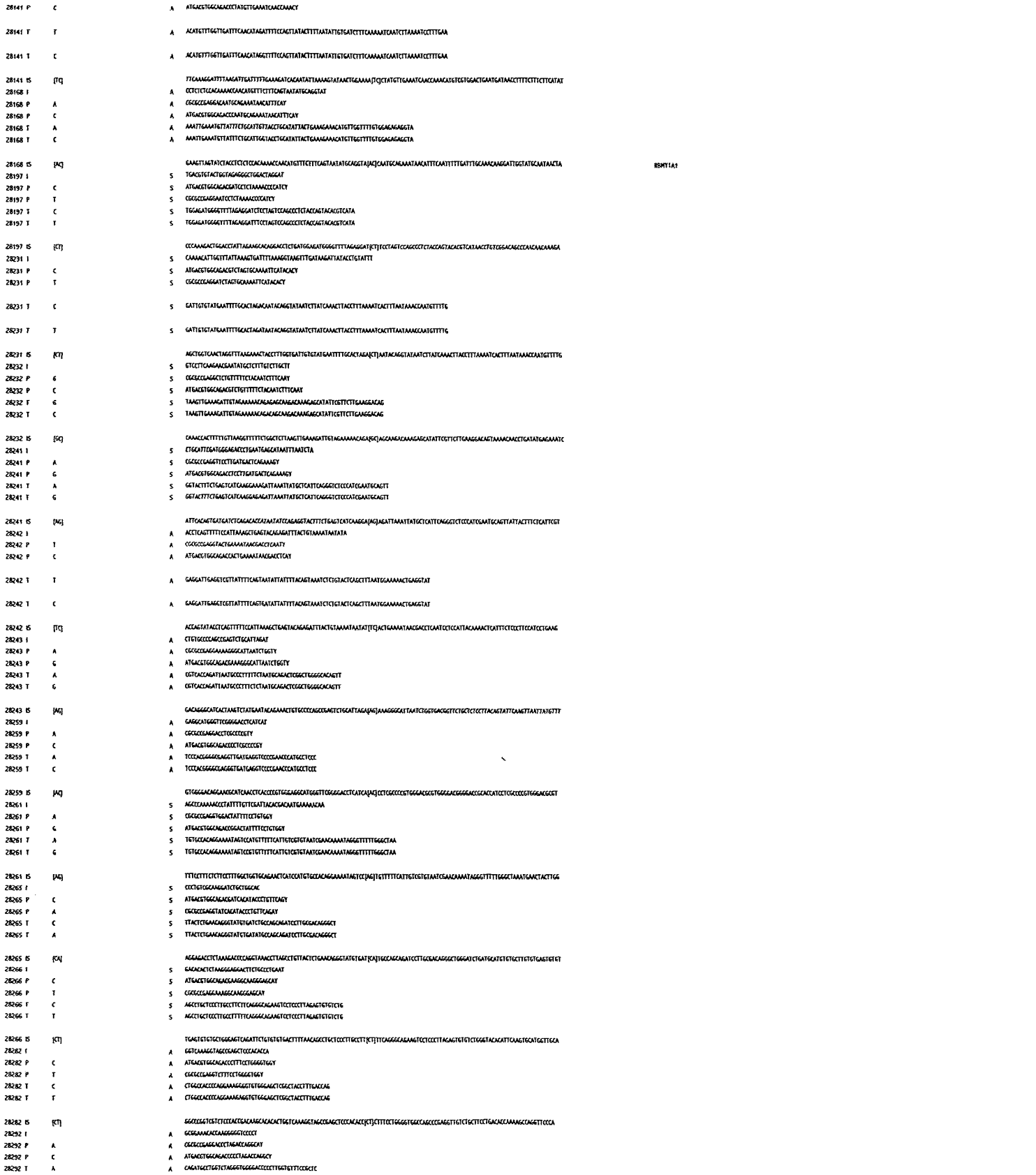
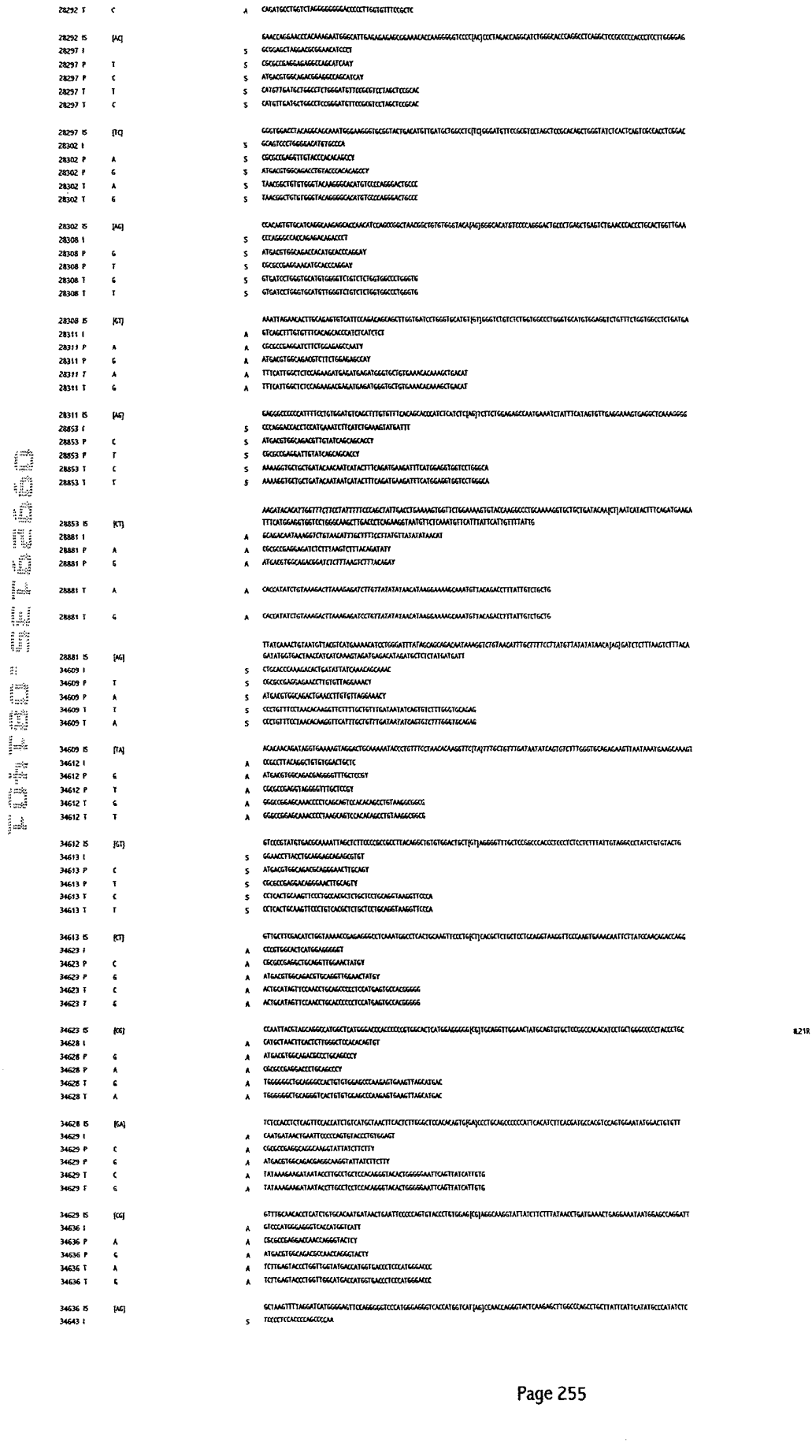
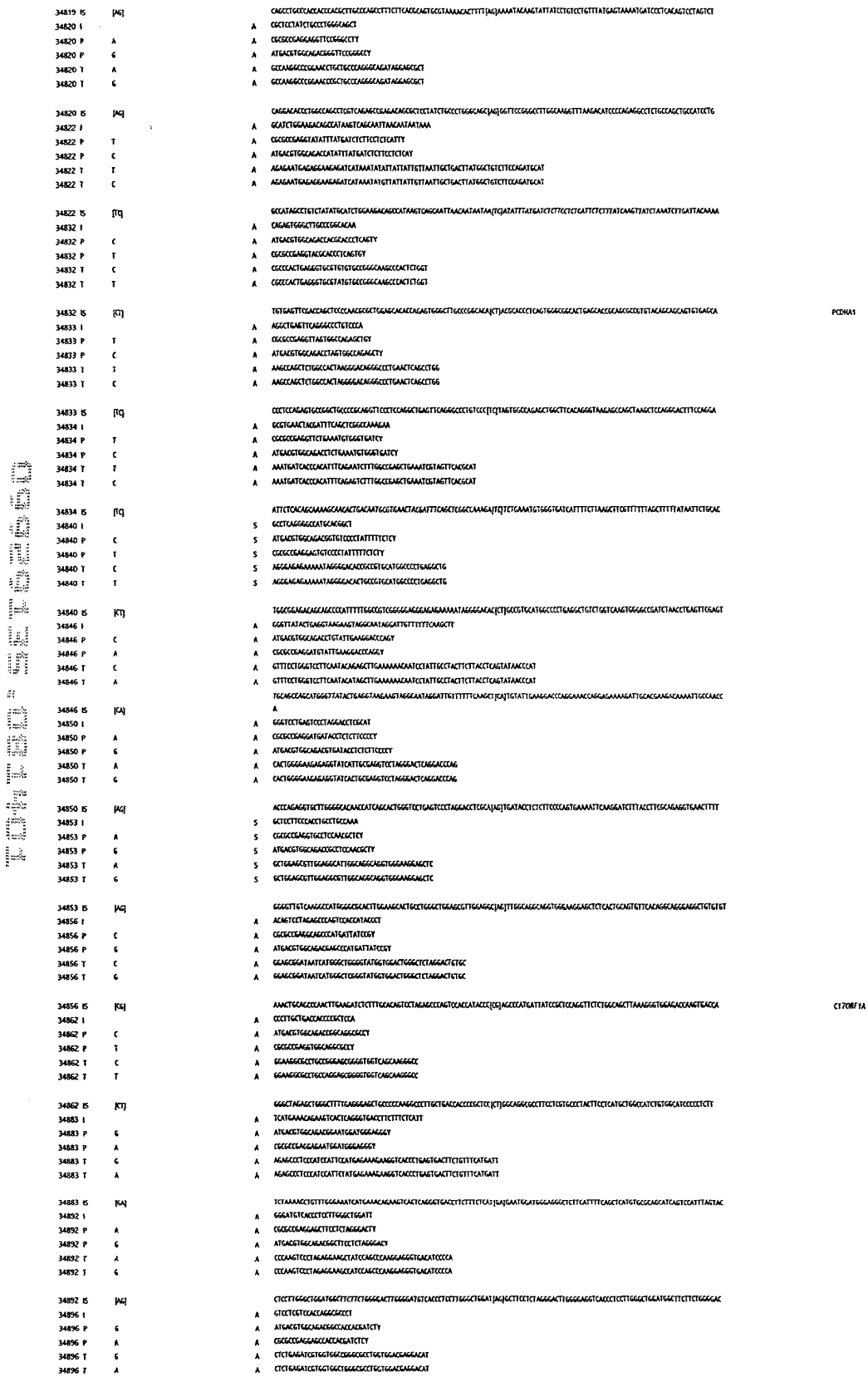


FIGURE 129F



34643 P A S CGCGCCGAGGTGATGGCCTGAGGGY
34643 P G S ATGACGTGGCAGACCGATGGCCTGAGGGY
34643 T A S ATTGCCCTCAGGCCATCATGGGGCTGGGGTGGAGGGGAGC
34643 T G S ATTGCCCTCAGGCCATCGTGGGGCTGGGGTGGAGGGGAGC
34643 IS [AG] GCCAGGGCTGAGGCAAGTCTGGGAGACCTGGGTCAGGCTGTCCCATTGCCCTCAGGCCATC[AG]TGGGGCTGGGGTGGAGGGGAGCTAGGAGGCCTGCCTGCCTGCTTGCCTGCCAGAGGCCCT
34648 I S GCAGGTGGTGGGGTGACCAGGCA
34648 P G S ATGACGTGGCAGACCCAGAGGGCACATGTY
34648 P A S CGCGCCGAGGTCAGAGGGCACATGTY
34648 T G S AGCCACATGTGCCCTCTGGGCCTGGTCACCCCACCACCTGCCC
34648 T A S AGCCACATGTGCCCTCTGAGCCTGGTCACCCCACCACCTGCCC
34648 IS [GA] CTGTGGAAGCAACACATGAGCTGAGAGGACTTGCCTGAACTGAGCCACATGTGCCCTCTG[GA]GCCTGGTCACCCCACCACCTGCCCCCAGTGTGAACCATGCAGGGCCTGTTCCTGACCCTG
34661 I A GATGTCATGACAAACATGTTAGAAATGAATTACAACCTGAGATTAGGGGAT
34661 P A A CGCGCCGAGGATCTTAAAGACTGAATTAGTGCTY
34661 P C A ATGACGTGGCAGACCTCTTAAAGACTGAATTAGTGCTY
34661 T A A TTCAGCACTAATTCAGTCTTAAGATTCCCCTAATCTCAGGTTGTAATTCATTTCTAACATGTTTGTCATGACATCAG
34661 T C A TTCAGCACTAATTCAGTCTTAAGAGTCCCCTAATCTCAGGTTGTAATTCATTTCTAACATGTTTGTCATGACATCAG
34661 IS [AC] TGCAGCCACTGATGTCATGACAAACATGTTAGAAATGAATTACAACCTGAGATTAGGGGA[AC]TCTTAAAGACTGAATTAGTGCTTGAAAGTTGAGATAAGTAGAAAGAATGAATTTGAATG T
34674 I S GCTCATTTCTTGTGGTGAGTGGCAGGCATGTT
34674 P C S ATGACGTGGCAGACGAGGCATAATGGGTTTAGTTY
34674 P T S CGCGCCGAGGAAGGCATAATGGGTTTAGTTY
34674 T C S ACCCAACTAAACCCATTATGCCTCACATGCCTGCCACTCACCACAAGAAATGAGCCC
34674 T T S ACCCAACTAAACCCATTATGCCTTACATGCCTGCCACTCACCACAAGAAATGAGCCC
34674 IS [CT] TACTTACAGAGGTTTCCTACCTTCCCCCAAGAGACCAACCCAACTAAACCCATTATGCCT[CT]ACATGCCTGCCACTCACCACAAGAAATGAGCCCTCCCCAGCTCCAGGTCATTCATCATCA
34682 I A ACCCAGGTGAGGTGCTGTGTTCATGCACT
34682 P G A ATGACGTGGCAGACGCAACTGATGTCATTAGACAY
34682 P A A CGCGCCGAGGAGAACTGATGTCATTAGACACY
34682 T G A GATGGTGTCTAATGACATCAGTTCCGTGCATGAACACAGCACCTCACCTGGGTGG
34682 T A A GATGGTGTCTAATGACATCAGTTCTGTGCATGAACACAGCACCTCACCTGGGTGG
34682 IS [GA] GGGGGATGTAAATTTTGCCCACAGACTTTGCCACCCAGGTGAGGTGCTGTGTTCATGCAC[GA]GAACTGATGTCATTAGACACCATCCAAGGATGGGCAGCCTGCAGTGTGCCCGGCGACTGC AFAP
34689 I S CGCTATCTTGGGACTCTTCTTTGTGCTTGCGGC
34689 P A S CGCGCCGAGGTCATCGGTTGAGAGAAGGY
34689 P T S ATGACGTGGCAGACATCGGTTGAGAGAAGGY
34689 T A S AAGTCCTTCTCTCAACCGATGACCGCAAGCACAAAGAAGAGTCCCAAGATAGCGAA
34689 T T S AAGTCCTTCTCTCAACCGATGTCCGCAAGCACAAAGAAGAGTCCCAAGATAGCGAA
34689 IS [AT] GAGCAACACAGAGCCAACACCAAGGAGACAAGGAAGAAGAAGTCCTTCTCTCAACCGATG[AT]CCGCAAGCACAAAGAAGAGTCCCAAGATAGCGAAGGAAAATAACTCAAGGCAGAG C
34707 I A CCGGGACATAGCCCCAAACTCCGCTT
34707 P C A CGCGCCGAGGCGCGAGCTTTGCTTY
34707 P G A ATGACGTGGCAGAGGGCGAGCTTTGCTTCY
34707 T C A TTAGGAAGCAAAGCTCGCCAGCGGAGTTTGGGGCTATGTCCCGGAG
34707 T G A TTAGGAAGCAAAGCTCGCCAGCGGAGTTTGGGGCTATGTCCCGGAG
34707 IS [CG] TTCCGGTGTCCTTGGCGATCCCAGCACTCCCCACTCCGGGACATAGCCCCAAACTCCGCT[CG]GCGAGCTTTGCTTCCTAAGTCCTCAGCCCTTTGTGAAGGCAGCTTCCCGCTCCCTCCGGC
34729 I S TCTCCCAAGTGCTGGTTGACAAGCAGGAT
34729 P C S ATGACGTGGCAGAGGTGATAAGGGATGAGGCY
34729 P T S CGCGCCGAGGAGTGATAAGGGATGAGGCY
34729 T C S CAGGGCCTCATCCCCTATCACCTGCTGCTTGTCAACCAGCACTTGGGAGAGAGA
34729 T T S CAGGGCCTCATCCCCTATCACTTGCTGCTTGTCAACCAGCACTTGGGAGAGA
34729 IS [CT] CCTCTGCATCTGCAGCTGACTTTTCACCAGGAAAGATCTCAGGGGCTCATCCCTTATCAC[CT]TGCTGCTTGTCAACCAGCACTTGGGAGAGAGAGGGCTCCTCCACCAGTCCCCTGCCAGTC
34731 I S GGAAAGCATTTGCAAAGATTGCTCTGGTTTGCCATAAT
34731 P T S CGCGCCGAGGAGCTTTCAACCCTGGGY
34731 P G S ATGACGTGGCAGACCGCTTTCAACCCTGGY
34731 T T S CAGTCCCAGGGTTGAAAGCTTTATGGCAAACCAGAGCAATCTTGCAAATGGCTTTCCCC
34731 T G S CAGTCCCAGGGTTGAAAGCGTTATGGCAAACCAGAGCAATCTTGCAAATGGCTTTCCCC
34731 IS [TG] ACACACTGCTTTGGGTCATTTTGTCTCGTCCTACTTCTGGCCAGTCCCCAGGGTTGAAAGC[TG]TTATGGCAAACCAGAGCAATCTTGCAAATGGCTTTCCCCCAAATCCTGAAGCCTGCAAAA
34738 I S TGGGCTGGGAAGGGAAATTTTGGAAAAGGAGCT
34738 P G S ATGACGTGGCAGACCCATTAAGGCAGAAAACTCTY
34738 P T S CGCGCCGAGGACATTAAGGCAGAAAACTCTY
34738 T G S TAAAAGAGTTTTCTGCCTTAATGTGCTCCTTTTCCAAAATTTCCCTTCCCAGCCCATG
34738 T T S TAAAAGAGTTTTCTGCCTTAATGTGCTCCTTTTCCAAAATTTCCCTTCCCAGCCCATG
34738 IS [GT] AAAGGATCACCATTGCTGAAGTTTAAAACCACTGCTCTAAAAGAGTTTTCTGCCTTAATG[GT]GCTCCTTTTCCAAAATTTCCCTTCCCAGCCCATGATTCCCACTTCTTCACGTATTCTTCT
34756 I S GTGCAGCTCCGTGATGGGGAGCGA
34756 P A S CGCGCCGAAGGTGTGGTGAGACCAGACY
34756 P G S ATGACGTGGCAGACCGTGGTGAGACCAGAY
34756 T A S GCACGTCTGGTCTCACCACAGCGCTCCCCATCACGGAACTGCACTG
34756 T G S GCACGTCTGGTCTCACCACGCGCTCCCCATCACGGAACTGCACTG
34756 IS [AG] AGCGTGCTGCAGGCCGACCCCTCCAGGATTCCGGCGCCCAGGCAGGTCTGGTCTCACCAC[AG]CGCTCCCCATCACGGACCTGCACTGCGGCTTTGGGGGCCCCTGGCCCGGGTGGCCACCT
34779 I A GTGTGCTGGACGGCGCATGCCT
34779 P A A CGCGCCGAGGATCATCCGGGACTTCTATAAY
34779 P G A ATGACGTGGCAGAGGTCATCCGGGACTTCTAY
34779 T A A GGGGTTATAGAAGTCCCGGATGATGGCATGGCCGTCCAGCACACGG
34779 T G A GGGGTTATAGAAGTCCCGGATGACGGCATGGCCGTCCAGCACACGG
34779 IS [AG] ATTGTCTTTGTCATCTCAGGGGTCCTGACGCTAATCCCCGTGTGCTGGACGGCGCATGCC[AG]TCATCCCGGACTTCTATAACCCCTGGTGGCTGAGGCCCAAAGCGGGAGCTGGGGGCCT CLDN6
34804 I S GTCAGAAAGGAAAGCAGGTCCCCCAGAAGGA
34804 P G S ATGACGTGGCAGACCAACACATTGATAGGAAGTGY
34804 P A S CGTGCCCAGGTAACACATTGATAGGAAGTGGY
34804 T G S GCTCCCACTTCCTATCAATGTGTTGCCTTCTGGGGGACCTGCTTTCCTTCTGACTC
34804 T A S GCTCCCACTTCCTATCAATGTGTTACCTTCTGGGGGACCTGCTTTCCTTCTGACTC
34804 IS [GA] TAAGTAATTATCAAGTGGGCACATTCTTTTTCTGTGGCCTCCACTTCCTATCAATGTGTT[GA]CCTTCTGGGGGACCTGCTTTCCTTCTGACTCTAGAGTGACCCTTTCGGGATGTCTGCTGG
34819 I S GGACTGTGAGGGATCATTTTACTCATAAACAGGACAGGATAATACTTGTATTTTA
34819 P A S CGCGCCGAGGTAAAAGTGTTTTACGCACTGY
34819 P G S ATGACGTGGCAGACCAAAGTGTTTTACGCACTGY
34819 T A S CACGCAGTGCGTAAAACACTTTTAAAAATACAAGTATTATCCTGTCCTGTTTATGAGTAAAATGATCCCTCACAGTCCTA
34819 T G S CACGCAGTGCGTAAAACACTTTTGAAAATACAAGTATTATCCTGTCCTGTTTATGAGTAAAATGATCCCTCACAGTCCTA


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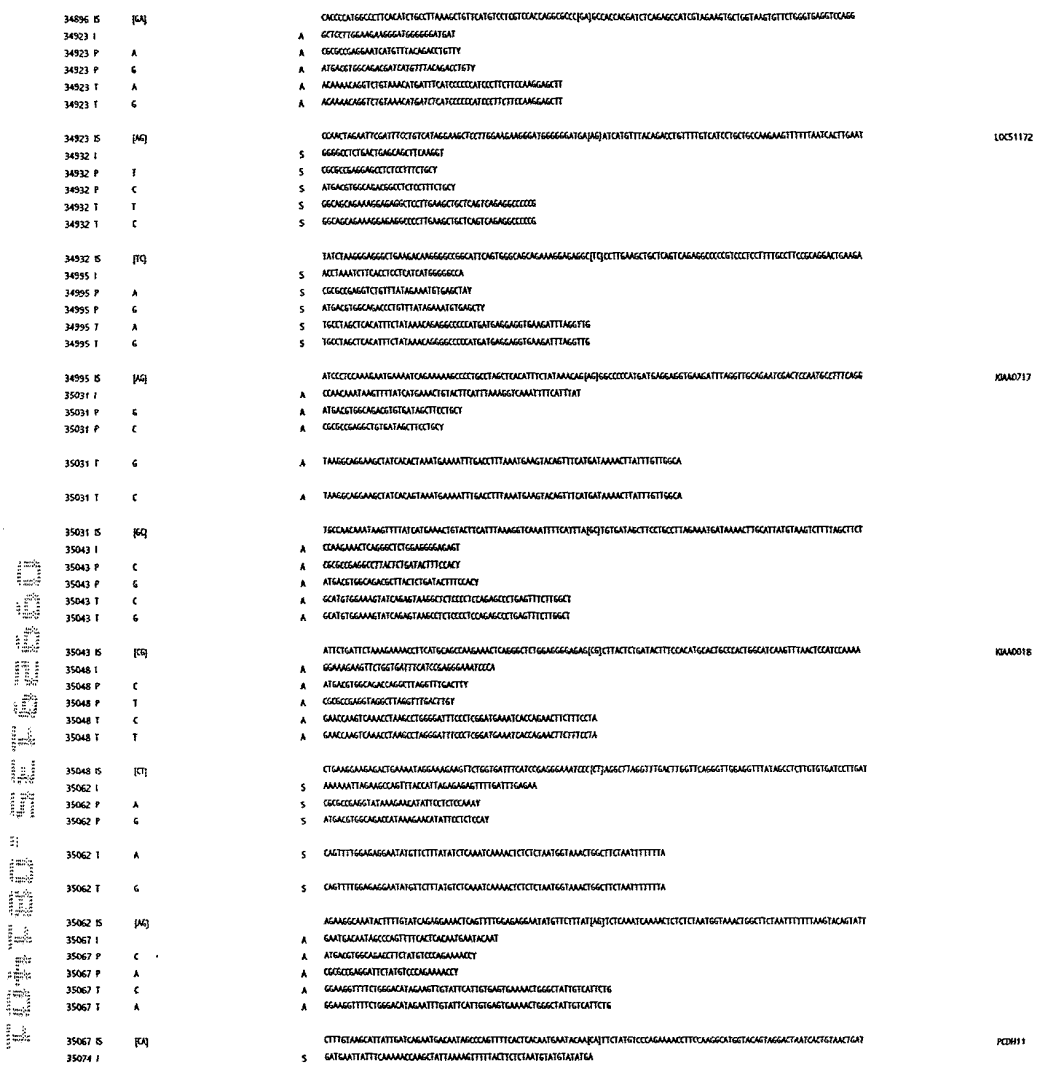
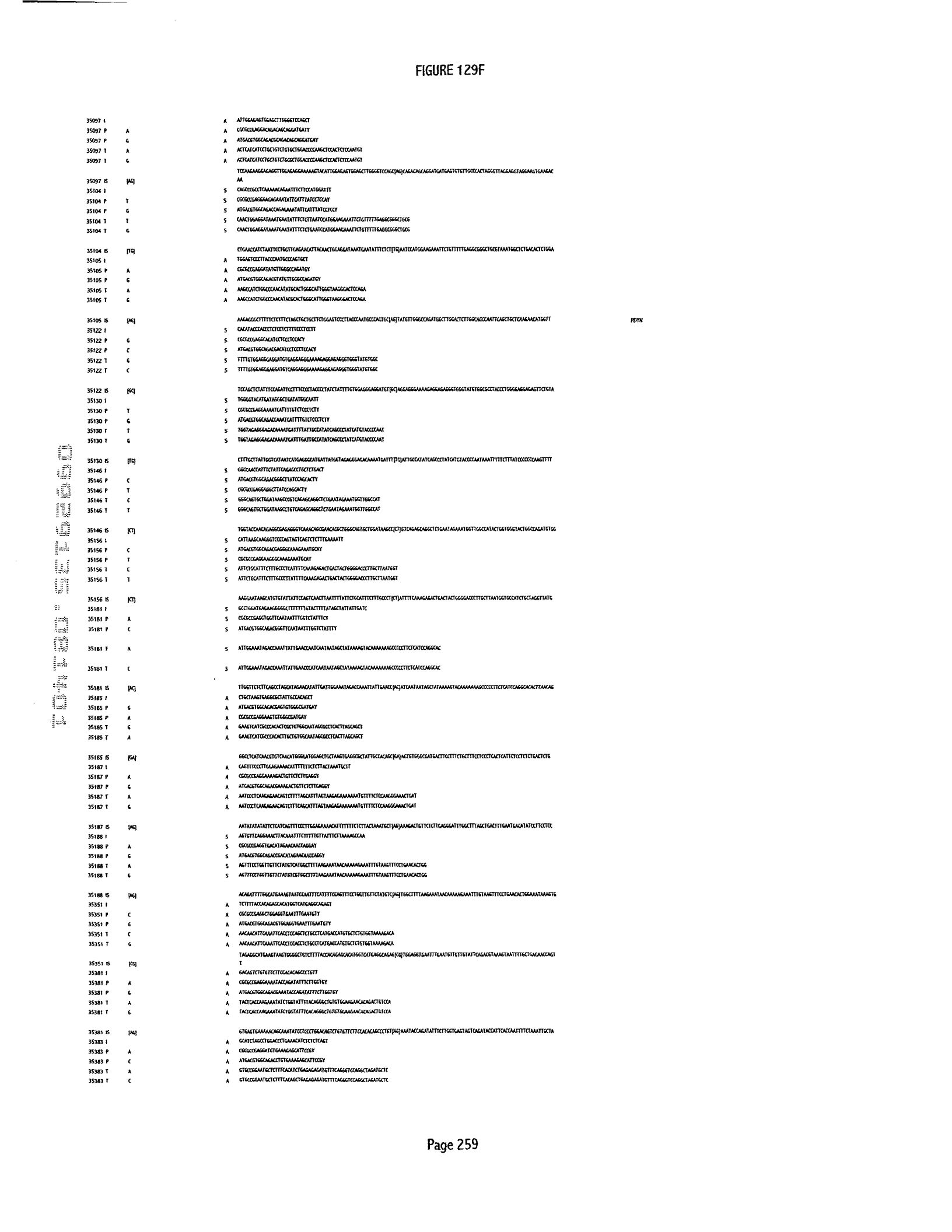
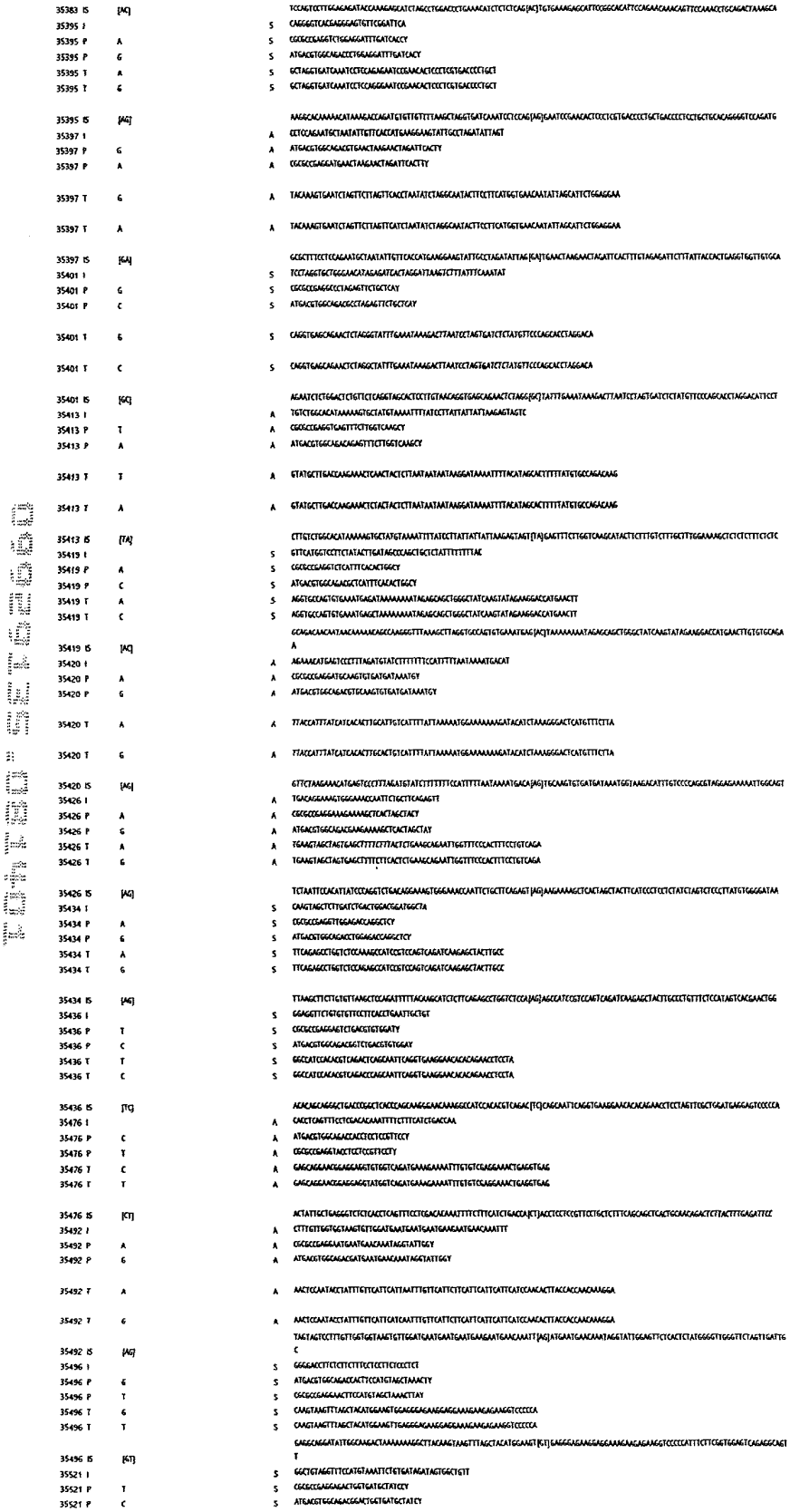


FIGURE 129F




35383 IS [AC] TCCAGTCCTTGGAGAGATACCAAAGAGCATCTAGCCTGGACCCTGAAACATCTCTCTCAG[AC]TGTGAAAAGAGCATTCCGGCACATTCCAGAACAAACAGTTCCAAACCTGCAGACTAAAGCA
35395 I S CAGGGCTCACGAGGGAGTGTTCGGATTCA
35395 P A S CGGCCCGAGGTCTGGAGGATTTGATCACCY
35395 P G S ATGACGTGGCAGACCCTGGAGGATTTGATCACY
35395 T A S GCTAGGTGATCAAATCCTCCAGAGAATCCGAACACTCCCTCGTGACCCCTGCT
35395 T G S GCTAGGTGATCAAATCCTCCAGGGAATCCGAACACTCCCTCGTGACCCCTGCT
35395 IS [AG] AAGGCACAAAAACATAAAGACCAGATGTGTTGTTTAAGCTAGGTGATCAAATCCTCCAG[AG]GAATCCGAACACTCCCTCGTGACCCCTGCTGCCCCTCCTGCTGCACAGGGGTCCAGATG
35397 I A GCTCCAGAATGCTAATATTGTTCACCATGAAGGAAGTATTGCCTAGATATTAGT
35397 P G A ATGACGTGGCAGACGTGAACTAAGAACTAGATTCACTY
35397 P A A CGCGCCGAGGATGAACTAAGAACTAGATTCACTY
35397 T G A TACAAAGTGAATCTAGTTCTTAGTTCACCTAATATCTAGGCAATACTTCCTTCATGGTGAACAATATTAGCATTCTGGAGGAA
35397 T A A TACAAAGTGAATCTAGTTCTTAGTTCATCTAATATCTAGGCAATACTTCCTTCATGGTGAACAATATTAGCATTCTGGAGGAA
35397 IS [GA] GCGCTTTCCTCCAGAATGCTAATATTGTTCACCATGAAGGAAGTATTGCCTAGATATTAG[GA]TGAACTAAGAACTAGATTCACTTTGTAGAGATTCTTTATTACACTGAGGTGGTTGTGCA
35401 I S TCCTAGGTGCTGGGAACATAGAGATCACTAGGATTAAGTCTTTATTTCAAATAT
35401 P G S CGCGCCGAGGCCCTAGAGTTCTGCTCAY
35401 P C S ATGACGTGGCAGACGCCTAGAGTTCTGCTCAY
35401 T G S CAGGTGAGCAGAACTCTAGGGTATTTGAAATAAAGACTTAATCCTAGTGATCTCTATGTTCCCAGCACCTAGGACA
35401 T C S CAGGTGAGCAGAACTCTAGGCTATTTGAAATAAAGACTTAATCCTAGTGATCTCTATGTTCCCAGCACCTAGGACA
35401 IS [GC] AGAATCTCTGGACTCTGTTCTCAGGTAGCACTCCTTGTAACAGGTGAGCAGAACTCTAGG[GC]TATTTGAAATAAAGACTTAATCCTAGTGATCTCTATGTTCCCAGCACCTAGGACATTCCT
35413 I A TGTCTGGCACATAAAAAGTGCTATGTAAAATTTTATCCTTATTATTATTAAGAGTAGTC
35413 P T A CGCGCCGAGGTCAGTTTCTTGGTCAAGCY
35413 P A A ATGACGTGGCAGACAGAGTTTCTTGGTCAAGCY
35413 T T A GTATGCTTGACCAAGAAACTCAACTACTCTTAATAATAATAAGGATAAAATTTTACATAGCACTTTTTATGTGCCAGACAAG
35413 T A A GTATGCTTGACCAAGAAACTCTACTACTCTTAATAATAATAAGGATAAAATTTTACATAGCACTTTTTATGTGCCAGACAAG
35413 IS [TA] CTTGTCTGGCACATAAAAAGTGCTATGTAAAATTTTATCCTTATTATTATTAAGAGTAGT[TA]GAGTTTCTTGGTCAAGCATACTTCTTTGTCTTTGCTTTGGAAAAGCTCTCTCTTTCTCTC
35419 I S GTTCATGGTCCTTCTATACTTGATAGCCCAGCTGCTCTATTTTTTTTAC
35419 P A S CGCGCCGAGGTCTCATTTCACACTGGCY
35419 P C S ATGACGTGGCAGACGCTCATTTCACACTGGCY
35419 T A S AGGTGCCAGTGTGAAATGAGATAAAAAAAATAGAGCAGCTGGGCTATCAAGTATAGAAGGACCATGAACTT
35419 T C S AGGTGCCAGTGTGAAATGAGCTAAAAAAAATAGAGCAGCTGGGCTATCAAGTATAGAAGGACCATGAACTT
35419 IS [AC] GCAGACACACATAACAAAAAAAGCCAAGGGTTTAAAGCTTAGGTGCCAGTGTGAAATGAG[AC]TAAAAAAAATAGAGCAGCTGGGCTATCAAGTATAGAAGGACCATGAACTTGTGTGCAGA A
35420 I A AGAAACATGAGTCCCTTTAGATGTATCTTTTTTTCCATTTTTAATAAAATGACAT
35420 P A A CGCGCCGAGGATGCAAGTGTGATGATAAATGY
35420 P G A ATGACGTGGCAGACGTGCAAGTGTGATGATAAATGY
35420 T A A TTACCATTTATCATCACACTTGCATTGTCATTTTATTAAAAATGGAAAAAAAGATACATCTAAAGGGACTCATGTTTCTTA
35420 T G A TTACCATTTATCATCACACTTGCACTGTCATTTTATTAAAAATGGAAAAAAAGATACATCTAAAGGGACTCATGTTTCTTA
35420 IS [AG] GTTCTAAGAAACATGAGTCCCTTTAGATGTATCTTTTTTTCCATTTTTAATAAAATGACA[AG]TGCAAGTGTGATGATAAATGGTAAGACATTTGTCCCCAGGGTAGGAGAAAAATTGGCAGT
35426 I A TGACAGGAAAGTGGGGAAACCAATTCTGCTTCAGAGTT
35426 P A A CGCGCCGAGGAAGAAAAAGCTCACTAGCTACY
35426 P G A ATGACGTGGCAGACGAAGAAAAGCTCACTAGCTAY
35426 T A A TGAAGTAGCTAGTGAGCTTTTCTTTACTCTGAAGCAGAATTGGTTTCCCACTTTCCTGTCAGA
35426 T G A TGAAGTAGCTAGTGAGCTTTTCTTCACTCTGAAGCAGAATTGGTTTCCCACTTTCCTGTCAGA
35426 IS [AG] TCTAATTCCACATTATCCCAGGTCTGACAGGAAAGTGGGAAACCAATTCTGCTTCAGAGT[AG]AAGAAAAGCTCACTAGCTACTTCATCCCTCCTCTATCTAGTCTCCCTTATGTGGGGATAA
35434 I S CAAGTAGCTCTTGATCTGACTGGACGGATGGCTA
35434 P A S CGCGCCGAGGTTGGAGAGACCAGGCTCY
35434 P G S ATGACGTGGCAGACCTGGAGACCAGGCTCY
35434 T A S TTCAGAGCCTGCTCTCCAAGCCATCCGTCCAGTCAGATCAAGAGCTACTTGCC
35434 T G S TTCAGAGCCTGGTCTCCAAGCCATCCGTCCAGTCAGATCAAGAGCTACTTGCC
35434 IS [AG] TTAAGCTTCTTGTGTTAAGCTCCAGATTTTTACAAGCATCTCTTCAGAGCCTGGTCTCCA[AG]AGCCATCCGTCCAGTCAGATCAAGAGCTACTTGCCCTGTTTCTCCATAGTCACGAACTGG
35436 I S GGAGGTTCTGTGTGTTCCTTCACCTGAATTGCTGT
35436 P T S CGCGCCGAGGAGTCTGACGTGTGGATY
35436 P C S ATGACGTGGCAGACGGTCTGACGTGTGGAY
35436 T T S GGCCATCCACAGTCAGACTCAGCAATTCAGGTGAAGGAACACACAGAACCTCCTA
35436 T C S GGCCATCCACAGTCAGACCCAGCAATTCAGGTGAAGGAACACACAGAACCTCCTA
35436 IS [TC] ACACAGCAGGGCTGACCCGACTCACCCAGCAAGCGAACAAAGGCCATCCACACGTCAGAC[TC]CAGCAATTCAGGTGAAGGAACACACAGAACCTCCTAGTTCGCTGGATGAGGAGTCCCCCA
35476 I A CACCTCAGTTTCCTCGACACAAATTTTCTTTCATCTGACCAA
35476 P C A ATGACGTGGCAGACGACCCCCTCCGTTCCY
35476 P T A CGCGCCGAGGTACCTCCTCCGTTCCTY
35476 T C A GAGCAGGAACGGAGGAGGTGTGGTCAGATGAAGGAAAATTTGTGTCGAGGAAACTGAGGTGAG
35476 T T A GAGCAGGAACGGAGGAGGTATGGTCAGATGAAGGAAAATTTGTGTCGAGGAAACTGAGGTGAG
35476 IS [CT] ACTATTGCTGAGGGTCTCTCACCTCAGTTTCCTCGACACAAATTTTCTTTCATCTGACCA[CT]ACCTCCTCCGTTCCTGCTCTTTCAGCAGCTCACTGCAACAGACTCTTACTTTGAGATTCC
35492 I A CTTTGTTGGTGCTAAGTGTTGGATGAATGAATGAAGAATGAACAAATTT
35492 P A A CGCGCCGAGGAATGAATGAACAAATAGGTATTGGY
35492 P G A ATGACGTGGCAGACGATGAATGAACAAATAGGTATTGGY
35492 T A A AACTCCAATACCTATTTGTTCATTCATTAATTTGTTCATTCTTCATTCATTCATTCCAACACTTACCACCAACAAAGGA
35492 T G A AACTCCAATACCTATTTGTTCATTCATCAATTTGTTCATTCTTCATTCATTCATTCCAACACTTACCACCAACAAAGGA
35492 IS [AG] TAGTAGTCCTTGTTGGTGGTAAGTGTTGGATGAATGAATGAAGAATGAACAAATT[AG]ATGAATGAACAAATAGGTATTGGAGTTCTCACTCTATGGGGTTGGGTTCTAGTTGATTG C
35496 I S GGGGAGCCTTCTCTTCTTTCTCCTTCTCCCTCT
35496 P G S ATGACGTGGCAGACCACTTCCATGTAGCTAAACTY
35496 P T S CGCGCCGAGGAACTTCCATGTAGCTAAACTTAY
35496 T G S CAAGTAAGTTTAGCTACATGGAAGTTGAGGGAGAAGGAGGAAAGAAGACAGAAGGTCCCCCA
35496 T T S CAAGTAAGTTTAGCTACATGGAAGTTGAGGGAGAAGGAGGAAAGAAGACAGAAGGTCCCCCA
35496 IS [GT] GAGGCAGGATATTGGCAAGACTAAAAAAAGCCTTACAAGTAAGTTTAGCTACATGGAAGT[GT]GAGGGAGAAGGAGGAAAGAAGACAGAAGGTCCCCCATTTCTTCGGTGGAGTCAGAGGCAGT T
35521 I S GGCTGTAGGTTTCCATGTAAATTCTGTGATAGATAGTGGCTGTT
35521 P T S CGCGCCGAGGAGACTGGTGATGCTATCCY
35521 P C S ATGACGTGGCAGACGGACTGGTGATGCTATCY

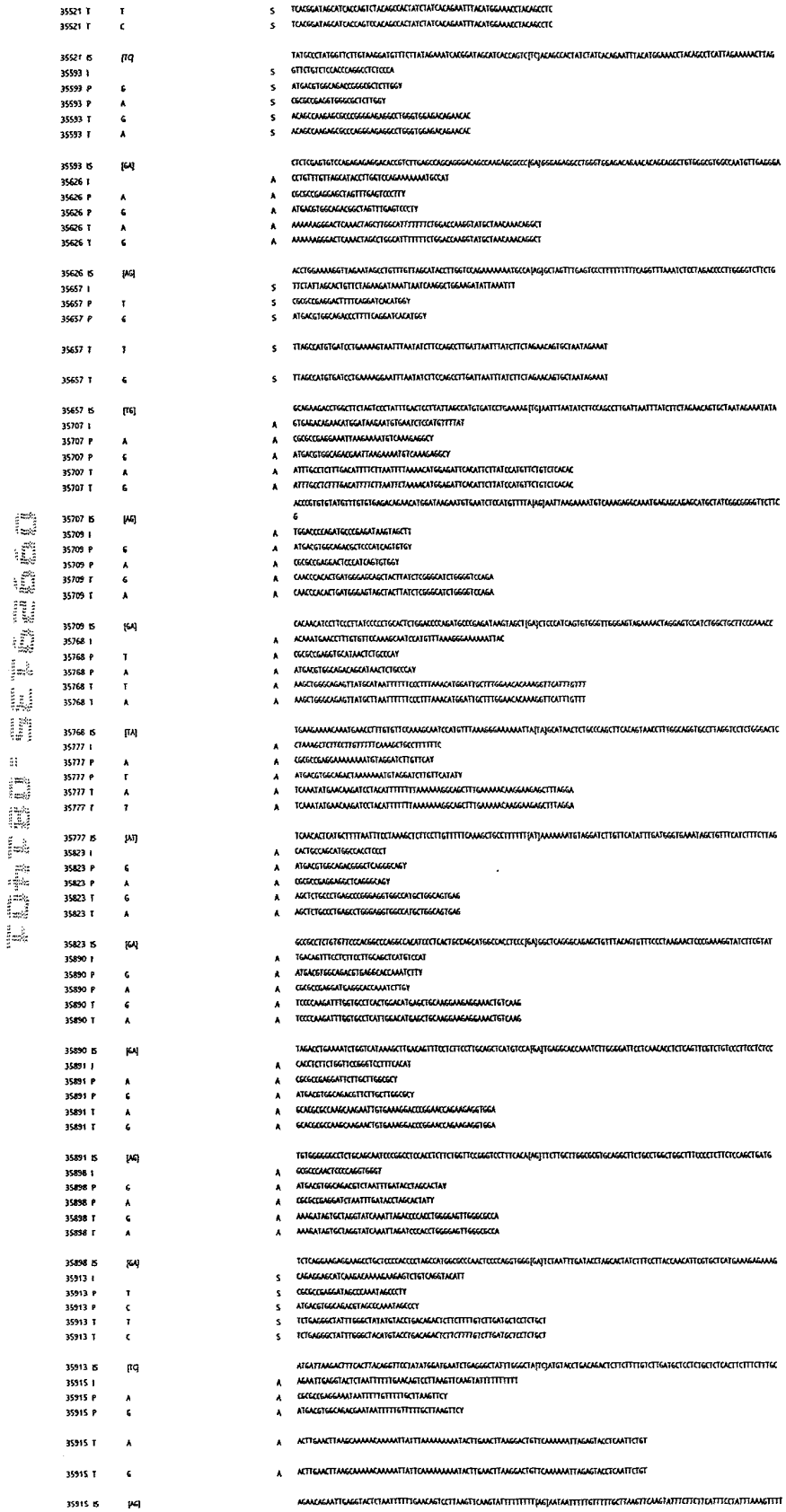

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35521 T C S TCACGGATAGCATCACCAGTCCACAGCCACTATCTATCACAGAATTTACATGGAAACCTACAGCCTC
35521 IS [TC] TATGCCCTATGGTTCTTGTAAGGATGTTTCTTATAGAAATCAGGGATAGCATCACCAGTC[TC]ACAGCCACTATCTATCACAGAATTTACATGGAAACCTACAGCCTCATTAGAAAAACTTAG
35593 I S GTTCTGTCTCCACCCAGGCCTCTCCCA
35593 P G S ATGACGTGGCAGACCGGGGGCTCTTGGY
35593 P A S CGCGCCGAGGTGGGCGCTCTTGGY
35593 T G S ACAGCCAAGAGCGCCCGGGGAGAGGCCTGGGTGGAGACAGAACAC
35593 T A S ACAGCCAAGAGCGCCCAGGGAGAGGCCTGGGTGGAGACAGAACAC
35593 IS [GA] CTCTCGAGTGTCCAGAGAGAGGACACCGTCTTGAGCCAGCAGGGACAGCCAAGAGCGCCC[GA]GGGAGAGGCCTGGGTGGAGACAGAACACAGAGGCTGTGGGCGTGGCCAATGTTGAGGGA
35626 I A CCTGTTTGTTAGCATACCTGATCCAGAAAAAAATGCCAT
35626 P A A CGCGCCGAGGAGCTAGTTTGAGTCCCTTY
35626 P G A ATGACGTGGCAGACGGCTAGTTTGAGTCCCTY
35626 T A A AAAAAAGGGACTCAAACTAGCTTGGCATTTTTTTCTGGACCAAGGTATGCTAACAAACAGGCT
35626 T G A AAAAAAGGGACTCAAACTAGCCTGGCATTTTTTTCTGGACCAAGGTATGCTAACAAACAGGCT
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35707 T G A ATTTGCCTCTTTGACATTTTCTTAATTCTAAAACATGGAGATTCAACATTCTTATCCATGTTCTGTCTCACAC
35707 IS [AG] ACCCGTGTGTATGTTTGTGTGAGACAGACATGGATAAGAATGTGAATCTCCATGTTTTAJAG]AATTAAGAAAATGTCAAAGAGGCAAATGAGAGCAGAGCATGCTATCGGCGGGGTCTCTTC
G
35709 I A TGGACCCCAGATGCCCGAGATAAGTAGCTT
35709 P G A ATGACGTGGCAGACGCTCCCATCAGTGTGY
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35709 T A A CAACCCACACTGATGGGAGTAGCTACTTATCTCGGGCATCTGGGGTCCAGA
35709 IS [GA] CACAACATCCTTCCCTTATCCCCCTGCACTCTGGACCCCAGATGCCCGAGATAAGTAGCT[GA]CTCCCATCAGTGTGGGTTGGGAGTAGAAAACTAGGAGTCCATCTGGCTGCTTCCCAAACC
35768 I A ACAAATGAACCTTTGTGTTCCAAAGCAATCCATGTTTAAAGGGAAAAAATTAC
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35777 I A CTAAAGCTCTTCCTTGTTTTTCAAAGCTGCCTTTTTTC
35777 P A A CGCGCCGAGGAAAAAAATGTAGGATCTTGTTCAY
35777 P T A ATGACGTGGCAGACTAAAAAAATGTAGGATCTTGTTCATATY
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35777 T T A TCAAATATGAACAAGATCCTACATTTTTTTAAAAAAGGCAGCTTTGAAAAACAAGGAAGAGCTTTAGGA
35777 IS [AT] TCAACACTCATGCTTTTAATTTCCTAAAGCTCTTCCTTGTTTTTCAAAGCTGCCTTTTTT[AT]AAAAAAATGTAGGATCTTGTTCATATTTGATGGGTGAAATAGCTGTTTCATCTTTCTTAG
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35823 P G A ATGACGTGGCAGACGGGCTCAGGGCAGY
35823 P A A CGCGCCGAGGAGGCTCAGGGCAGY
35823 T G A AGCTCTGCCCTGAGCCCGGGAGGTGGCCATGCTGGCAGTGAG
35823 T A A AGCTCTGCCCTGAGCCTGGGAGGTGGCCATGCTGGCAGTGAG
35823 IS [GA] GCCGCCTCTGTGTTCCCACGGCCCAGGCCACATCCCTCACTGCCAGCATGGCCACCTCCC[GA]GGCTCAGGGCAGAGCTGTTACAGTGTTCCCTAAGAACTCCCCAAAGGTATCTTCGTAT
35890 I A TGACAGTTTCCTCTTCCTTGCAGCTCATGTCCAT
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35890 T G A TCCCCAAGATTTGGTGCCTCACTGGACATGAGCTGCAAGGAAGAGGAAACTGTCAAG
35890 T A A TCCCCAAGATTTGGTGCCTCATTGGACATGAGCTGCAAGGAAGAGGAAACTGTCAAG
35890 IS [GA] TAGACCTGAAAATCTGGTCATAAAGCTTGACAGTTTCCTCTTCCTTGCAGCTCATGTCCA[GA]TGAGGCACCAAATCTTGGGGATTCCTCAACACCTCTCAGTTCGTCTGTCCCTTCCTCTCC
35891 I A CACCTCTTCTGGTTCCGGGTCCTTTCACAT
35891 P A A CGCGCCGAGGATTCTTGCTTGGCGCY
35891 P G A ATGACGTGGCAGACGTTCTTGCTTGGCGCY
35891 T A A GCAGGCGCCAAGCAAGAATTGTGAAAGGACCCGGAACCAGAAGAGGTGGA
35891 T G A GCACGCGCCAAGCAAGAACTGTGAAAGGACCCGGAACCAGAAGAGGTGGA
35891 IS [AG] TGTGGGGGGCCTCTGCAGCAGTCCCGGCCTCCACCTCTTCTGGTTCCGGGTCCTTTCACA[AG]TTCTTGCTTGGGCGTGCAGGCTTCTGCCTGGCTGGCTTTCCCCTCTTCTCCAGCTGATG
35898 I A GCGCCCAACTCCCCAGGTGGGT
35898 P G A ATGACGTGGCAGACGTCTAATTTGATACCTAGCACTAY
35898 P A A CGCGCCGAGGATCTAATTTGATACCTAGCACTATY
35898 T G A AAAGATAGTGCTAGGTATCAAATTAGATCCCACCTGGGGAGTTGGGCGCCA
35898 T A A AAAGATAGTGCTAGGTATCAAATTAGATCCCACCTGGGGAGTTGGGCGCCA
35898 IS [GA] TCTCAGGAAGAGGAAGCCTGCTCCCCACCCCTAGCCATGGCGCCCAACTCCCCAGGTGGG[GA]TCTAATTTGATACCTAGCACTATCTTTCCTTACCAACATTCGTGCTCATGAAAGAAAAG
35913 I S CAGAGGAGCATCAAGACAAAAGAAAGAGTCTGTCAGGTACATT
35913 P T S CGCGCCGAGGATAGCCCAAATAGCCCTY
35913 P C S ATGACGTGGCAGACGTAGCCCAAATAGCCCT
35913 T T S TCTGAGGGCTATTTGGGCTATATGTACCTGACAGACTCTTCTTTTGTCTTGATGCTCCTCTGCT
35913 T C S TCTGAGGGCTATTTGGGCTACATGTACCTGACAGACTCTTCTTTTGTCTTGATGCTCCTCTGCT
35913 IS [TC] ATGATTAAGACTTTCACTTACAGGTTCC]ATATGGATGAATCTGAGGGCTATTTGGGCTA[TC]ATGTACCTGACAGACTCTTCTTTTGTCTTGATGCTCCTCTGCTCTCACTTCTTTCTTTGC
35915 I A AGAATTGAGGTACTCTAATTTTTTGAACAGTCCTTAAGTTCAAGTATTTTTTTTTT
35915 P A A CGCGCCGAGGAAATAATTTTTGTTTTTGCTTAAGTTCY
35915 P G A ATGACGTGGCAGACGAATAATTTTTGTTTTTGCTTAAGTTCY
35915 T A A ACTTGAACTTAAGCAAAAACAAAAATTATTAAAAAAAAATACTTGAACTTAAGGACTGTTCAAAAAATTAGAGTACCTCAATTCTGT
35915 T G A ACTTGAACTTAAGCAAAAACAAAAATTATTCAAAAAAAAATACTTGAACTTAAGGACTGTTCAAAAAATTAGAGTACCTCAATTCTGT
35915 IS [AG] AGAACAGAATTGAGGTACTCTAATTTTTTGAACAGTCCTTAAGTTCAAGTATTTTTTTTT[AG]AATAATTTTTGTTTTTGCTTAAGTTCAAGTATTTCTTCTCATTTCCTATTTAAAGTTTT

FIGURE 129F

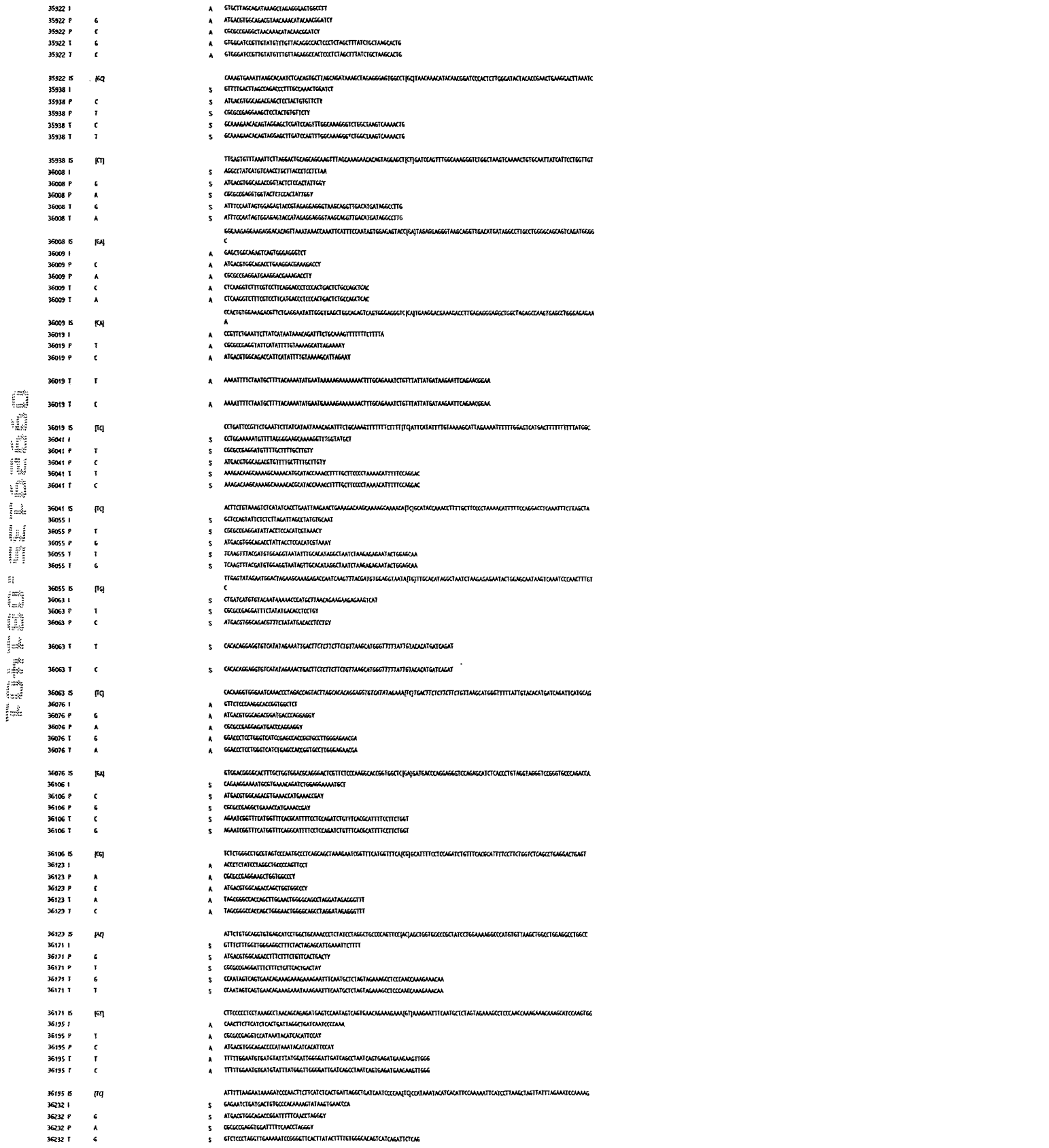


FIGURE 129F



FIGURE 129F

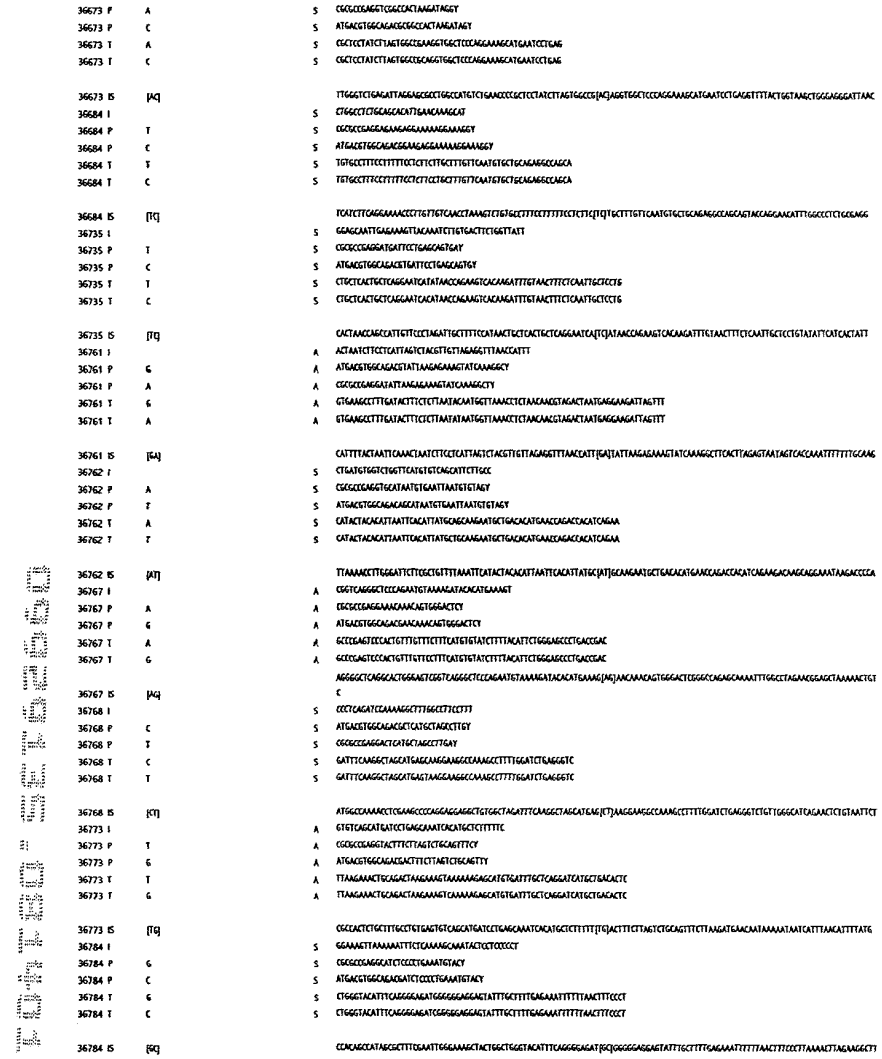


FIGURE 129F

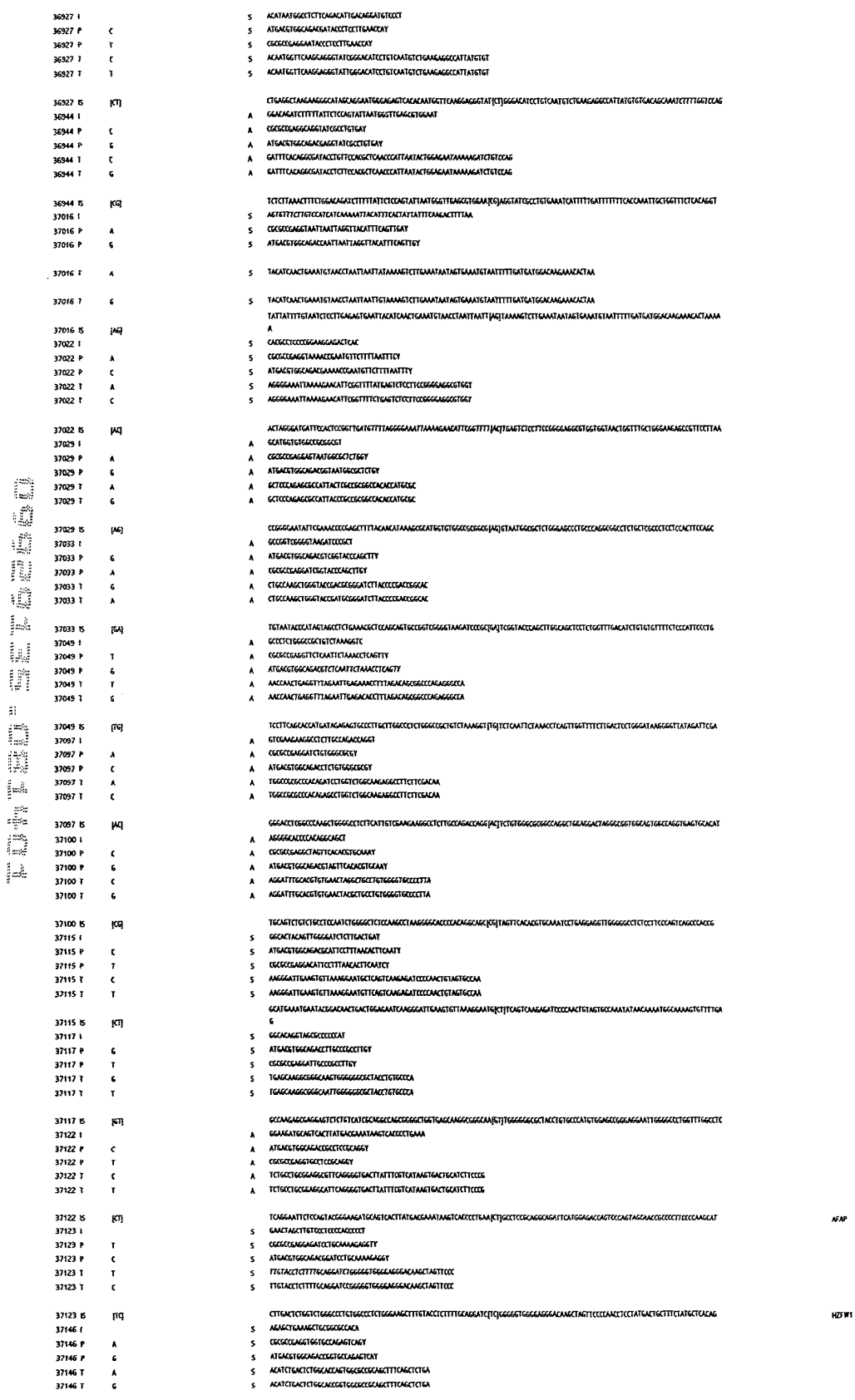

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36927 T C S ACAATGGTTCAAGCAGGGTATCGGGACATCCTGTCAATGTCTGAAGAGGCCATTATGTGT
36927 T T S ACAATGGTTCAAGCAGGGTATTGGCACATCCTGTCAATGTCTGAAGAGGCCATTATGTGT
36927 IS [CT] CTGAGGCTAAGAAGGGCATAGCAGGAATGGGAGAGTCACACAATGGTTCAAGGAGGGTATYCTGGGACATCCTGTCAATGTCTGAAGAGGCCATTATGTGTGACAGCAAATCTTTTGGTCCAG
36944 1 A GGACAGATCTTTTTATTCTCCAGTATTAATGGGTTGAGCGTGGAAT
36944 P C A CGCGCCGAGGCAGGTATCGCCTGTGAY
36944 P G A ATGACGTGGCAGACGAGGTATCGCCTGTGAY
36944 T C A GATTTCACAGGCGATACCTGTTCCAGGCTCAACCCATTAATACTGGAGAATAAAAAGATCTGTCCAG
36944 T G A GATTTCACAGGCGATACCTCTTCCAGGCTCAACCCATTAATACTGGAGAATAAAAAGATCTGTCCAG
36944 IS [CG] TCTCTTAAACTTTCTGGACAGATCTTTTTATTCTCCAGTATTAATGGGTTGAGCGTGGAA[CG]AGGTATCGCCTGTGAAATCATTTTTGATTTTTTTCACCAAATTGCTGGTTTCTCACAGGT
37016 1 S AGTGTTTCTTGTCCATCATCAAAAATTACATTTCACTATTATTTCAAGACTTTTAA
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37016 P G S ATGACGTGGCAGACGAATTAATTAGGTTACATTTCAGTTGT
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37016 T G S TACATCAACTGAAATGTAACCTAATTAATTGTAAAAGTCTTGAAATAATAGTGAAATGTAATTTTTGATGATGGACAAGAAACACTAA
37016 IS [AG] TATTATTTTGTAATCTCCTTCAGAGTGAATTACATCAACTGAAATGTAACCTAATTAATT[AG]TAAAAGTCTTGAAATAATAGTGAAATGTAATTTTTGATGATGGACAAGAAACACTAAAA
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37022 T C S AGGGGAAATTAAAAGAACATTCGGTTTTCTGAGTCTCCTTCCGGGGAGGGGTGGT
37022 IS [AC] ACTAGGGATGATTCCACTCCGGTTGATGTTTAGGGGAAATTAAAAGAAGATTCGGTTT[AC]TGAGTCTCCTTCCGGGGAGGGGTGGTGGTAACTGGTTTGCTGGGAAGAGCCGTTCCTTAA
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37029 P A A CGCGCCGAGGAGTAATGGCGCTCTGGY
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37029 T G A GCTCCCAGAGGCGCATTACCTGCCGCGGCCACACCATGCGC
37029 IS [AG] CCGGGGAATATTCGAAACCCCGAGCTTTTACAACATAAAGCGCATGGTGTGGCCGCGGCC[AG]GTAATGCGCGCTCTGGGAGCCCTGCCCAGGACGGCCTCTGCTCGCCCTCCTCCACTTCCAGC
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37033 T A A CTGCCAAGCTGGGTACCGATGCGGGATCTTACCCCGACCGGCAC
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37049 P G A ATGACGTGGCAGACGTCTCAATTCTAAACCTCAGTY
37049 T T A AACCAACTGAGGTTTAGAATTGAGACAACCTTTAGACAGGGCCCAGAGGCCA
37049 T G A AACCAACTGAGGTTTAGAATTGAGACACCTTTAGACAGGGCCCAGAGGCCA
37049 IS [TG] TCCTTCAGCACCATGATAGAGAGTGCCCTTGCTTGGCCCTCTGGGCCGCTGTCTAAAGGT[TG]TCTCAATTCTAAACCTCAGTTGGTTTTCTTGACTCCTGGGATAAGGGGTTATAGATTCGA
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37097 P A A CGCGCCGAGGATCTGTGGGCGCGY
37097 P C A ATGACGTGGCAGACCTCTGTGGGCGCGY
37097 T A A TGGCCCGCCCACAGAGCCTGGTCTGGCAAGAGGCCTTCTTCGACAA
37097 T C A TGGCCGCCCCACAGAGCCTGGTCTGGCAAGAGGCCTTCTTCGACAA
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37100 T G A AGGATTTGCACGTGTGAACTACGCTGCCTGTGGGGTGCCCCTTA
37100 IS [CG] TGCAGTCTGTCTGCCTCCAATCTGGGGCTCTCCAAGCCTAAGGGGCACCCCACAGGCAGC[CG]TAGTTCACACGTGCAAATCCTGAGGAGGTTGGGGGCCTCTCCTTCCCAGTCAGCCCACCG
37115 1 S GGCACTACAGTTGGGGATCTCTTGACTGAT
37115 P C S ATGACGTGGCAGACGCATTCCTTTAACACTTGAATY
37115 P T S CGCGCCGAGGACATTCCTTTAACACTTCAATCY
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37115 T T S AAGGGATTGAAGTGTTAAAGGAATGTTCAGTCAAGAGATCCCCAACTGTAGTGCCAA
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G
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37122 1 A GGAAGATGCAGTCACTTATGACGAAATAAGTCACCCCTGAAA
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37122 T T A TCTGCCTGCGGAGGCATTCAGGGGTGACTTATTTCGTCATAAGTGACTGCATCTTCCCG
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37123 IS [TC] CTTGACTCTGGTCTGGGCCCTCTGCCCCTCTGGGAAGCTTTGTACCTCTTTTGCAGGATC[TC]GGGGGTGGGGAGGGACAAGCTAGTTCCCCAACCTCCTATGACTGCTTTCTATGCTCACAG HZFW1
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FIGURE 129F

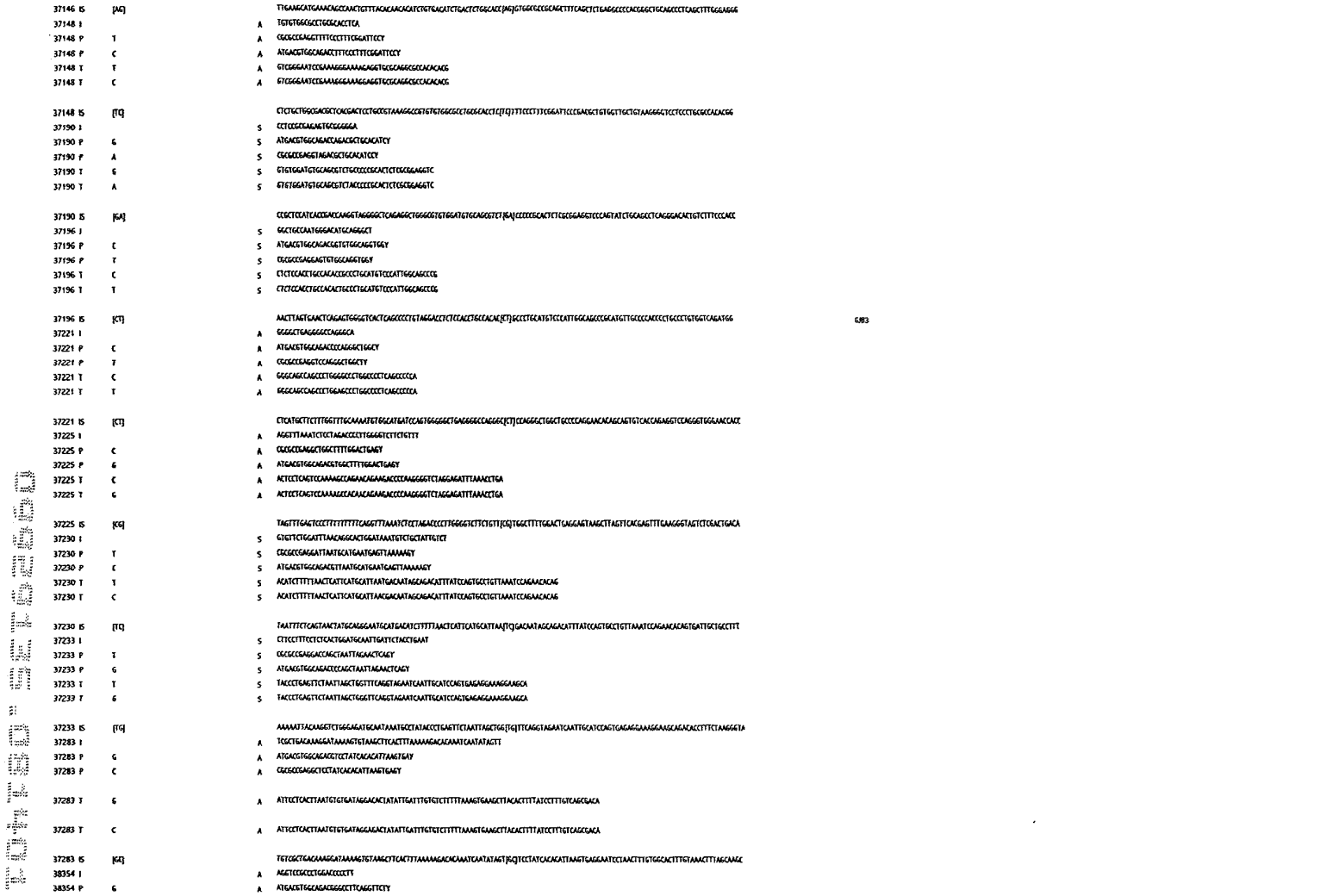


FIGURE 129F

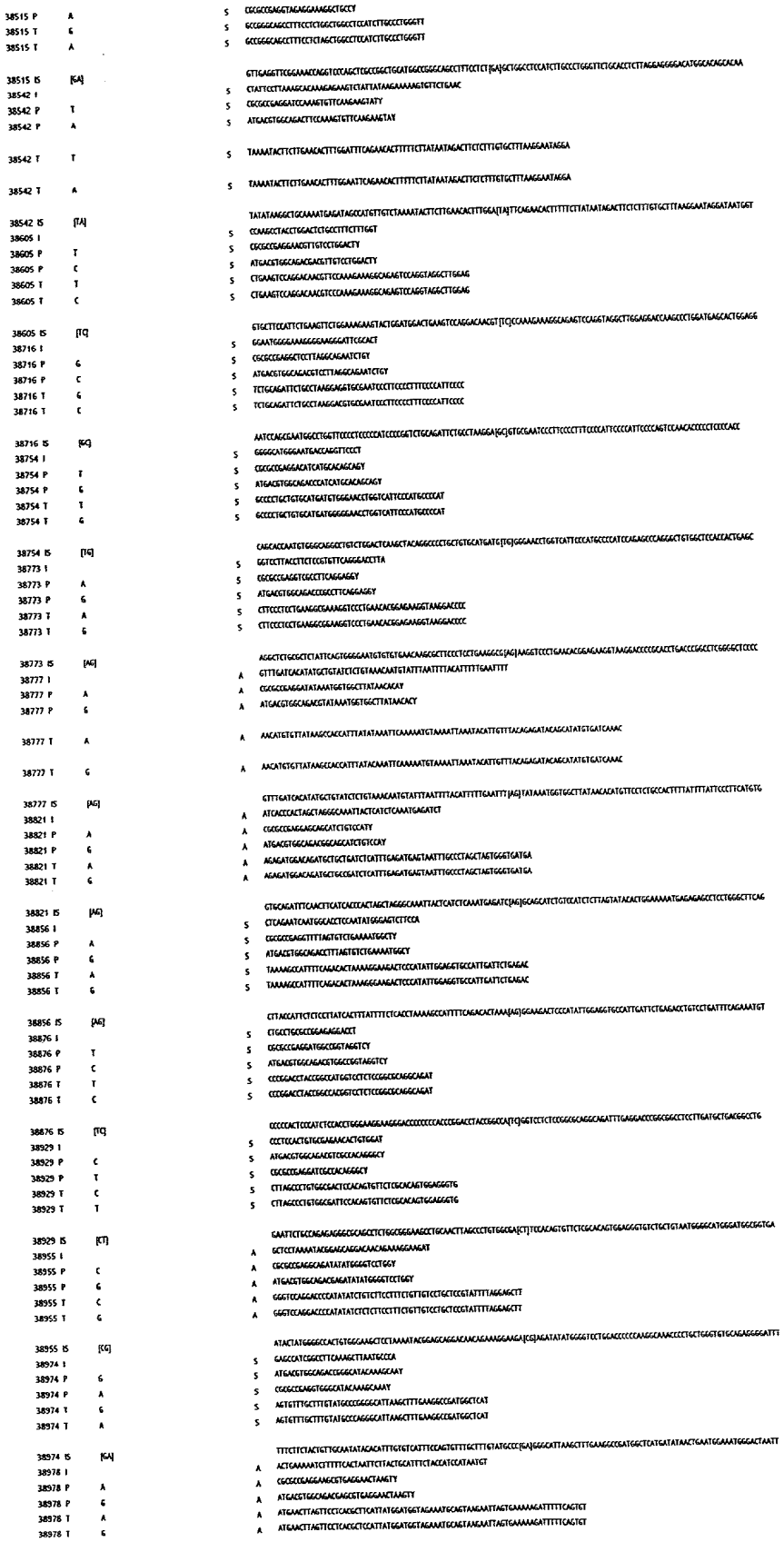

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38974 P A
38974 T G
38974 T A
38974 IS [GA]
38978 I
38978 P A
38978 P G
38978 T A
38978 T G
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S CGCGCCGAGGATCCAAAGTGTTCAAGAAGTATY
S ATGACGTGGCAGACTTCCAAAGTGTTCAAGAAGTAY
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S CCAAGCCTACCTGGACTCTGCCTTTCTTTGGT
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S ATGACGTGGCAGACGACGTTGTCCTGGACTY
S CTGAAGTCCAGGACAACGTTCCAAAGAAAGGCAGAGTCCAGGTAGGCTTGGAG
S CTGAAGTCCAGGACAACGTCCCAAAGAAAGGCAGAGTCCAGGTAGGCTTGGAG
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S CGCGCCGAGGCTCCTTAGGCAGAATCTGY
S ATGACGTGGCAGACGTCCTTAGGCAGAATCTGY
S TCTGCAGATTCTGCCTAAGGAGGTGCGAATCCCTTCCCCTTTCCCCATTCCCC
S TCTGCAGATTCTGCCTAAGGACGTGCGAATCCCTTCCCCTTTCCCCATTCCCC
AATCCAGCGAATGGCCTGGTTCCCCTCCCCATCCCCGGTCTGCAGATTCTGCCTAAGGA[GC]GTGCGAATCCCTTCCCCTTTCCCCATTCCCCAGTCCAACACCCCCTCCCCACC
S GGGGCATGGGAATGACCAGGTTCCCT
S CGCGCCGAGGACATCATGCACAGCAGY
S ATGACGTGGCAGACCCATCATGCACAGCAGY
S GCCCCTGCTGTGCATGATGTGGGAACCTGGTCATTCCCATGCCCCAT
S GCCCCTGCTGTGCATGATGGGGGAACCTGGTCATTCCCATGCCCCAT
CAGCACCAATGTGGGCAGGCCTGTCTGGACTCAAGCTACAGGCCCCTGCTGTGCATGATG[TC]GGGAACCTGGTCATTCCCATGCCCCATCCAGAGCCCAGGCCTGTGGCTCCACCACTGAGC
S GGTCCTTACCTCTCCGTGTTCAGGGACCTTA
S CGCGCCCAGGTCGCCTTCAGGAGGY
S ATGACGTGGCAGACCCGCTTCAGGAGGY
S CTTCCCTCCTGAAGGCGAAAGGTCCCTGAACACGGAGAAGGTAAGGACCCC
S CTTCCCTCCTGAAGGCGAAAGGTCCCTGAACACGGAGAAGGTAAGGACCCC
AGGCTCTGCGCTCTATTCAGTGGGGAATGTGTGTGAACAAGCGCTTCCCTCCTGAAGGCG[AG]AAGGTCCCTGAACACGGAGAAGGTAAGGACCCCGCACCTGACCCGCCTCGGGGCTCCCC
A GTTTGATCACATATGCTGTATCTCTGTAAACAATGTATTTAATTTTACATTTTTGAATTT
A CGCGCCGAGGATATAAATGGTGGCTTATAACACAY
A ATGACGTGGCAGACGTATAAATGGTGGCTTATAACACY
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A CGCGCCGAGGAGCAGCATCTGTGCCATY
A ATGACGTGGCAGACGGCAGCATCTGTCCAY
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A AGAGATGGACAGATGCTGCCGATCTCATTTGAGATGAGTAATTTGCCCTAGCTAGTGGGTGATGA
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S CTAGAATCAATGGCACCTCCAATATGGGAGTCTTCCA
S CGCGCCGAGGTTTTAGTGTCTGAAAATGGCTY
S ATGACGTGGCAGACCTTAGTGTCTGAAAATGGCY
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S TAAAAGCCATTTTCAGACACTAAAGGGAAGACTCCCATATTGGAGGTGCCATTGATTCTGAGAC
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S CTGCCTGCGCCGGAGAGGACCT
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S ATGACGTGGCAGACCTGGCCGGTAGGTCY
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S CCCTCCACTGTGCGAGAACACTGTGGAT
S ATGACGTGGCAGACGTCGCCACAGGGCY
S CGCGCCGAGGATCGCCACAGGGCY
S CTTAGCCCTGTGGCGACTCCACAGTGTCTCGCACAGTGGAGGGTG
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A CGCGCCGAGGCAGATATATGGGGTCCTGGY
A ATGACGTGGCAGACGAGATATATGGGGTCCTGGY
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S GAGCCATCGGCCTTCAAAGCTTAATGCCCA
S ATGACGTGGCAGACCGGGCATACAAAGCAAT
S CGGGCCCAGGTGGGCATACAAAGCAAAY
S AGTGTTTGCTTTGTATGCCCGGGGCATTAAGCTTTGAAGGCCGATGGCTCAT
S AGTGTTTGCTTTGTATGCCAGGGCATTAAGCTTTGAAGGCCGATGGCTCAT
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A CGCGCCGAGGAAGCGTGAGGAACTAAGTY
A ATGACGTGGCAGACGAGCGTGAGGAACTAAGTY
A ATGAACTTAGTTCCTCACGCTTCATTATGGATGGTAGAAATGCAGTAAGAATTAGTGAAAAAGATTTTTCAGTGT
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FIGURE 129F

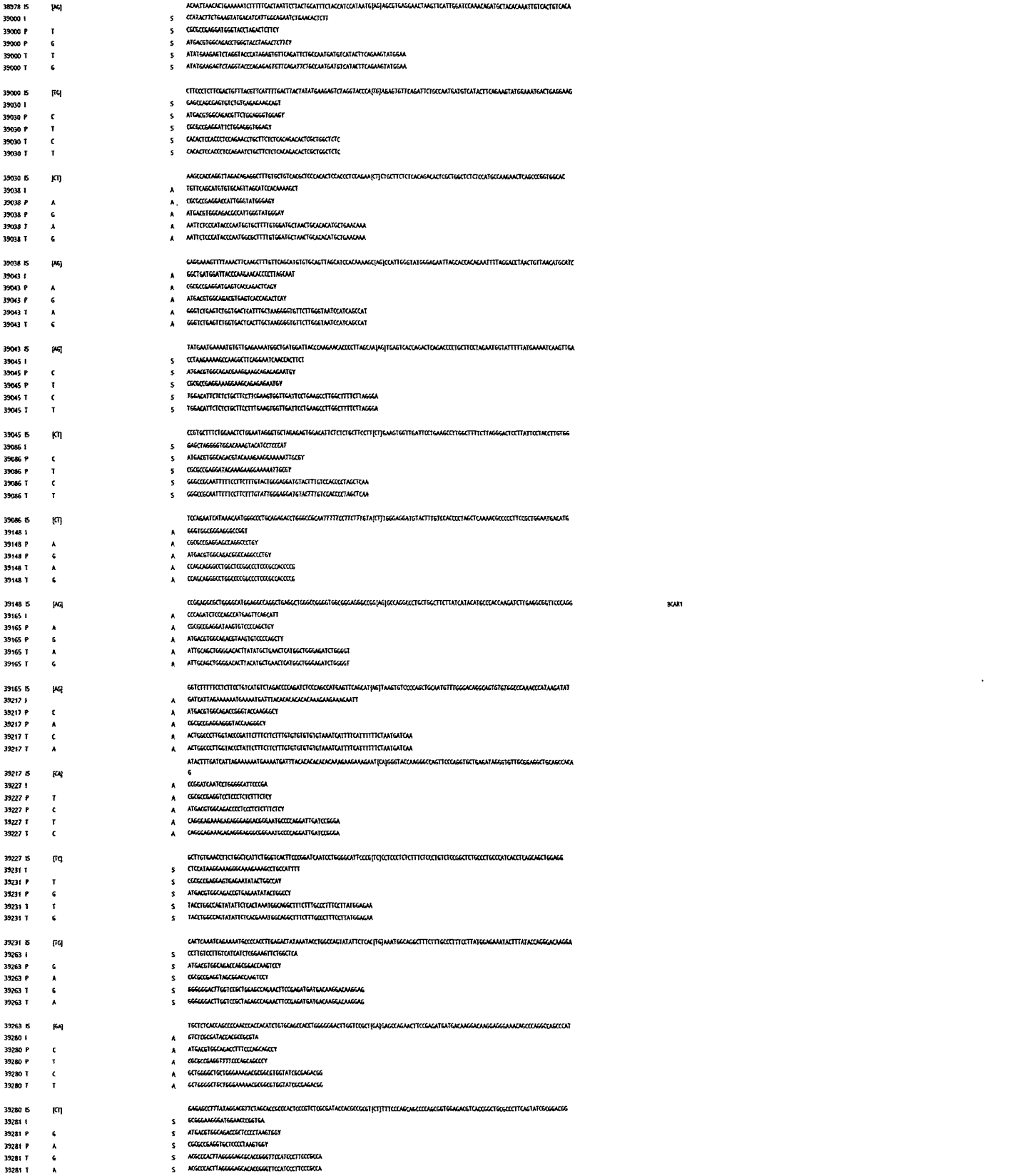

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39000 P T S CGCGCCGAGGATGGGTACCTAGACTCTTCY
39000 P G S ATGACGTGGCAGACCTGGGTACCTAGACTCTTCY
39000 T T S ATATGAAGAGTCTAGGTACCCAGAGAGTGTTCAGATTCTGCCATGATGTCATACTTCAGAAGTATGGAA
39000 T G S ATATGAAGAGTCTAGGTACCCAGAGAGTGTTCAGATTCTGCCATGATGTCATACTTCAGAAGTATGGAA
39000 IS [TG] CTTCCCTCTTCGACTGTTTACGTTCATTTTGACTTACTATATGAAGAGTCTAGGTACCCA[TG]AGAGTGTTCAGATTCTGCCATGATGTCATACTTCAGAAGTATGGAAATGACTGAGGAAG
39030 I S GAGCAGCGAGTGTCTGTCAGAGAAGCAGT
39030 P C S ATGACGTGGCAGACGTTCTGCAGGGGTGCAGY
39030 P T S CGCGCCGAGGATTCTGCAGGGTGCAGY
39030 T C S CACACTCCACCCTCCAGAACCTGCTTCTCTCACAGACACTCGCTGGCTCTC
39030 T T S CACACTCCACCCTCCAGAATCTGCTTCTCTCACAGACACTCGCTGGCTCTC
39030 IS [CT] AAGCCACCAGGTAGACAGAGGCTTTGTGCTGTCACGCTCCCACACTCCACCCTCCAGAA[CT]CTGCTTCTCTCACAGACACTCGCTGGCTCTCTCCCATGCCAAGAACTCAGCCCGGTGGCAC
39038 I A TGTTCAGCATGTGTGCAGTTAGCATCCACAAAAGCT
39038 P A A CGCGCCCAGGACCATTGGGTATGGGAGY
39038 P G A ATGACGTGGCAGACGCCATTGGGTATGGGAY
39038 T A A AATTCTCCCATACCCAATGGTGCTTTTGTGGATGCTAACTGCACACATGCTGAACAAA
39038 T G A AATTCTCCCATACCCAATGGGGCTTTTGTGGATGCTAACTGCACACATGCTGAACAAA
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39043 P A A CGCGCCGAGGATGAGTCACCAGACTCAGY
39043 P G A ATGACGTGGCAGACGTGAGTCACCAGACTCAY
39043 T A A GGGTCTGAGTCTGGTGACTCATTTGCTAAGGGGTGTTCTTGGGTAATCCATCAGCCAT
39043 T G A GGGTCTGAGTCTGGTGACTCACTTGCTAAGGGGTGTTCTTGGGTAATCCATCAGCCAT
39043 IS [AG] TATGAATGAAAATGTGTTGAGAAAATGGCTGATGGATTACCCAAGAACACCCCTTAGCAA[AG]TGAGTCACCAGACTCAGACCCCTGCTTCCTAGAATGGTATTTTTATGAAAATCAAGTTGA
39045 I S CCTAAGAAAAGCCAAGCCTTCAGGAATCAACCACTTCT
39045 P C S ATGACGTGGCAGACGAAGGAAGCAGAGACGAATGY
39045 P T S CGCGCCGAGGAAAGGAAGCAGACAGAATGY
39045 T C S TGGACATTCTCTCTGCTTCCTTGAAGTGGTTGATTCCTGAAGCCTTGGCTTTTCTTAGGGA
39045 T T S TGGACATTCTCTCTGCTTCCTTTGAAGTGGTTGATTCCTGAAGCCTTGGCTTTTCTTAGGGA
39045 IS [CT] CCGTGCTTTCTGGAACTCTGGAATAGGGTGCTAGAGAGTGGACATTCTCTCTGCTTCCTT[CT]GAAGTGGTTGATTCCTGAAGCCTTGGCTTTTCTTAGGGACTCCTTATTCCTACCTTGTGG
39086 I S GAGCTAGGGGTGGACAAAGTACATCCTCCCAT
39086 P C S ATGACGTGGCAGACGTACAAAGAAGCAAAATTGCGY
39086 P T S CGCGCCGAGGATACAAAGAAGCAAAAATTGCGY
39086 T C S GGGCCGCAATTTTCCCTCTTTGTACTGGGAGGATGTACTTTGTCCACCCCTAGCTCAA
39086 T T S GGGCCGCAATTTTCCCTCTTTGTATTGGGAGGATGTACTTTGTCCACCCCTAGCTCAA
39086 IS [CT] TCCAGAATCATAAACAATGGGCCCTGCAGACAGCCTGGGCCGCAATTTTTCCTTCTTTGTA[CT]TGGCAGGATGTACTTTGTCCACCCCTAGCTCAAAACGCCCCCTTCCGCTGGAATGACATG
39148 I A GGGTGCCGGGAGGGCCGGT
39148 P A A CGCGCCGAGGACCAGGCCCTGY
39148 P G A ATGACGTGGCAGACGGCCAGGCCCTGY
39148 T A A CCAGCAGGGCCTGGCTCCGGCCCTCCGCCACCCCG
39148 T G A CCAGCAGGGCCTGGCCCCGGCCCTCCGCCACCCCG
39148 IS [AG] CCGCAGGCGCTGGGGCATGGAGGCCAGGCTGAGGCTGGGCCGGGGTGGCGGGAGAGGCCGG[AG]GCCAGGCCCTGCTGGCTTCTTATCATACATGCCCACCAAGATCTTGAGGCGGTTCCCAGG BCAR1
39165 I A CCCAGATCTCCCAGCCATGAGTTCAGCATT
39165 P A A CGCGCCGAGGATAAGTGTCCCCAGCTGY
39165 P G A ATGACGTGGCAGACGTAAGTGTCCCCAGCTY
39165 T A A ATTGCAGCTGGGGACACTTATATGCTGAACTCATGGCTGGGAGATCTGGGGT
39165 T G A ATTGCAGCTGGGGACACTTACATGCTGAACTCATGGCTGGGAGATCTGGGGT
39165 IS [AG] GGTCTTTTCCTCTTCCTGTCATGTCTAGACCCCAGATCTCCCAGCCATGAGTTCAGCAT[AG]TAAGTGTCCCCAGCTGCAATGTTTGGGGACAGGCAGTGTGTGGCCCAAACCCATAAGATAT
39217 I A GATCATTAGAAAAAATCAAAATGATTTACACACACACACAAGAAGAAAGAATT
39217 P C A ATGACGTGGCAGACCGGGTACCAAGGCY
39217 P A A CGCGCCGAGGAGGGTACCAAGGGCY
39217 T C A ACTGGCCCTTGGTACCCGATTCTTTCTTCTTTGTGTGTGTGTAAATCATTTTCATTTTTTCTAATGATCAA
39217 T A A ACTGGCCCTTGGTACCCTATTCTTTCTTCTTTGTGTGTGTGTAAATCATTTTCATTTTTTCTAATGATCAA
39217 IS [CA] ATACTTTGATCATTAGAAAAAATGAAAATGATTTACACACACACACAAGAAGAAAGAAT[CA]GGGTACCAAGGGCCAGTTCCCAGGTGCTGAGATAGGGTGTTGCGGAGGCTGCAGCCACA G
39227 I A CCGGATCAATCCTGGGGCATTCCGA
39227 P T A CGCGCCGAGGTCCTCCCTCTCTTTCTCY
39227 P C A ATGACGTGGCAGACCCCTCCTTCTCTTTCTCY
39227 T T A CAGGGAGAAACAGAGGGAAGCACGGAATGCCCCAGGATTGATCCGGGA
39227 T C A CAGGGAGAAACAGAGGGAAGGCGGAATGCCCCAGGATTGATCCGGGA
39227 IS [TC] GCTTGTCAACCTTCTGGCTCATTCTGGGTCACTTCCCGAATCAATCCTGGGGCATTCCCG[TC]CCTCCCTCTCTTTCTCCCTCGTCTCCGGCTCTGCCCTGCCGATCACCTCAGCAGCTGGAGG
39231 T S CTCCATAAGGAAAAGGCAAAGAAAGCCTGCCATTTT
39231 P T S CGCGCCGAGGAGTGAGAATATACTGGCCAY
39231 P G S ATGACGTGGCAGACCGTGAGAATATACTGGCCY
39231 T T S TACCTGGCCAGTATATTCTCACTAAATGGCAGGCTTTCTTTGCCCTTTCCTTATGGAGAA
39231 T G S TACCTGGCCAGTATATTCTCACAAAATGGCAGGCTTTCTTTGCCCTTTCCTTATGGAGAA
39231 IS [TG] CACTCAAATCAGAAAATGCCCCACCTTGAGACTATAAATACCTGGCCAGTATATTCTCAC[TG]AAATGGCAGGCTTTCTTTGCCCTTTCCTTATGGAGAAATACTTTATACCAGGGACAAGGA
39263 I S CCTTGTCCTTGTCATCATCTGGAAGTTCTGGCTCA
39263 P G S ATGACGTGGCAGACCAGCGGACCAAGTCCY
39263 P A S CGCGCCGAGGTAGCGGACCAAGTCCY
39263 T G S GGGGGGACTTGGTCCGCTGAGACCAGAACTTCCGAGATGATGACAAGGACAAGGAG
39263 T A S GGGGGGACTTGGTCCGCTACAGCCAGAACTTCCGAGATGATGACAAGGACAAGGAG
39263 IS [GA] TGCTCTCACCAGCCCCAACCACCACATCTGTGCAGCCACCTGGGGGGACTTGGTCCGCT[GA]CAGCCAGAACTTCCGAGATGATGACAAGGACAAGGAGGGAAAACAGCCCAGGCCAGCCAT
39280 I A GTCTCGCGATACCACGCCGCGTA
39280 P C A ATGACGTGGCAGACCTTTCCCAGCAGCCT
39280 P T A CGCGCCGAGGTTTTCCCAGCAGCCCY
39280 T C A GCTGGGGCTGCTGGGGAAAGACGCGGCGTGGTATCGCGAGACGG
39280 T T A GCTGGGGCTGCTGGGAAAAACGCGGCGTGGTATCGCGAGACGG
39280 IS [CT] GAGAGCCTTTATAGGAGCTTCTAGCACCCCCCACTCCCGTCTCGCGATACCACGCCGCGT[CT]TTTCCCAGCAGCCCCAGCGGTGGAGACGTCACCGGCTGCGCCCTTCAGTATCGCGAGACGG
39281 I S GCGGCAAGCGATGGAACCCGGTGA
39281 P G S ATGACGTGGCAGACCGCTCCCCTAAGTGGY
39281 P A S CGCGCCGAGGTGCTCCCCTAAGTGGY
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39281 T A S ACGCCCACTTAGGGGAGCACACCGGGTTCCATCCCTTCCCGCCA

FIGURE 129F

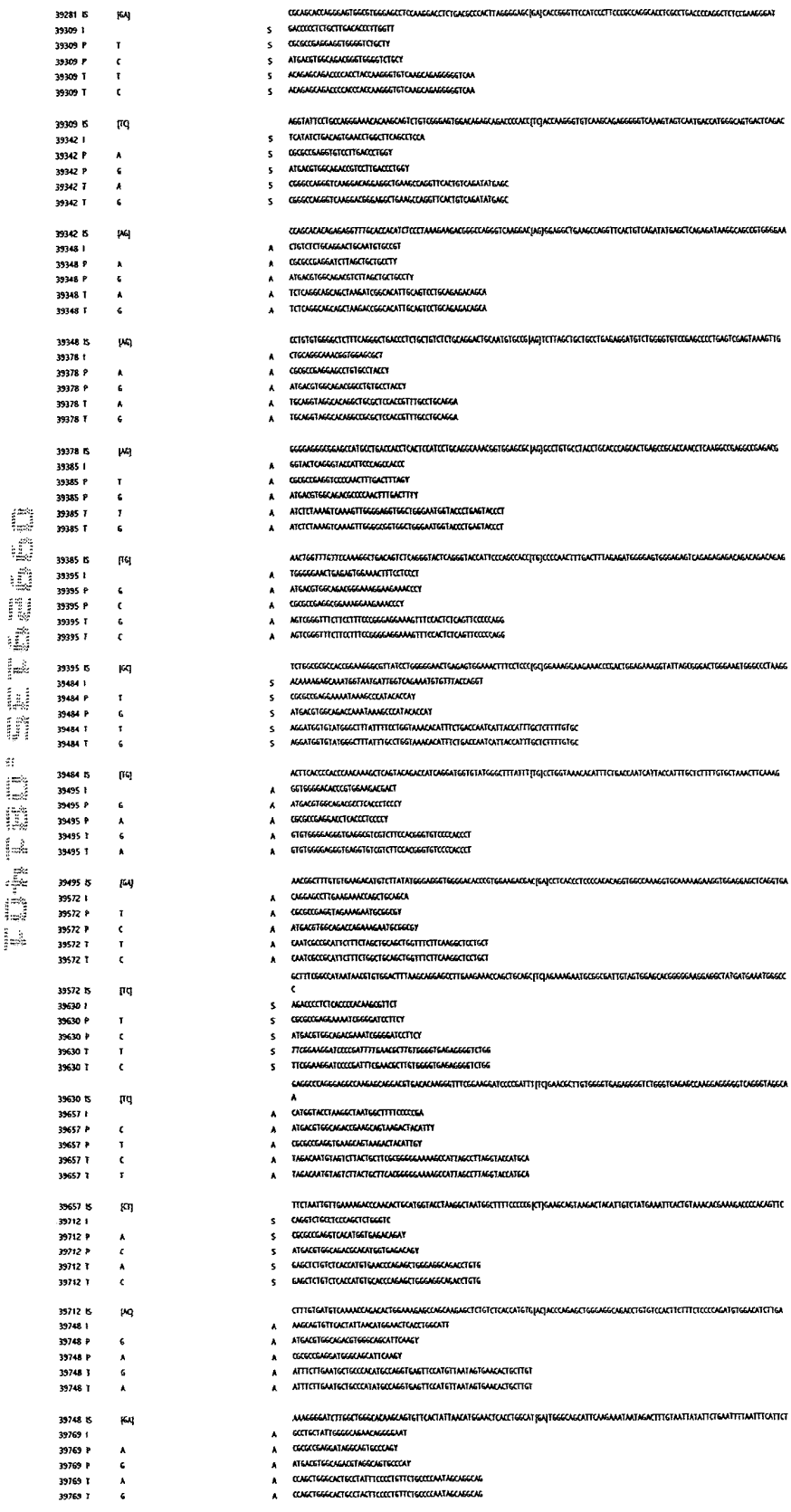
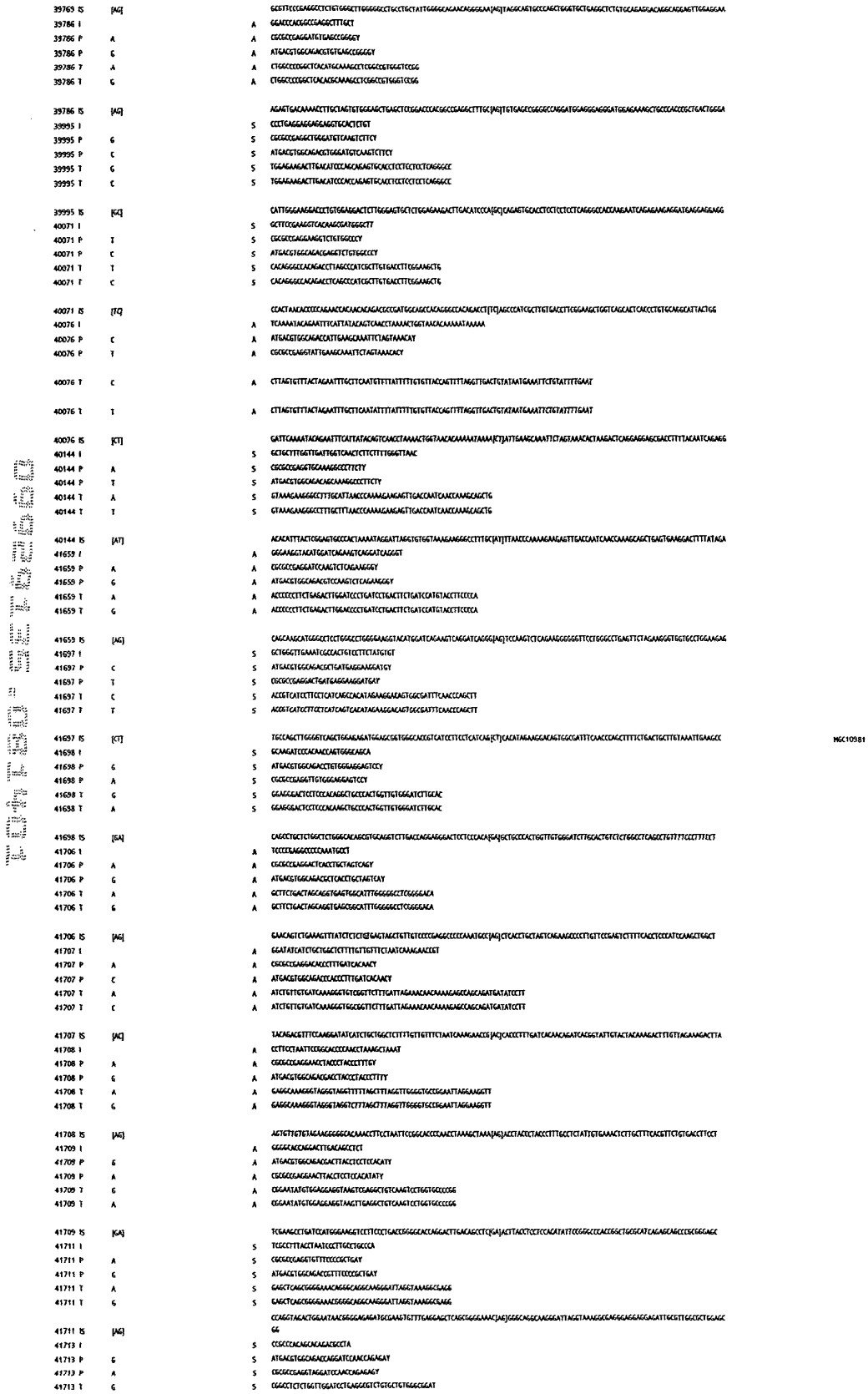


FIGURE 129F



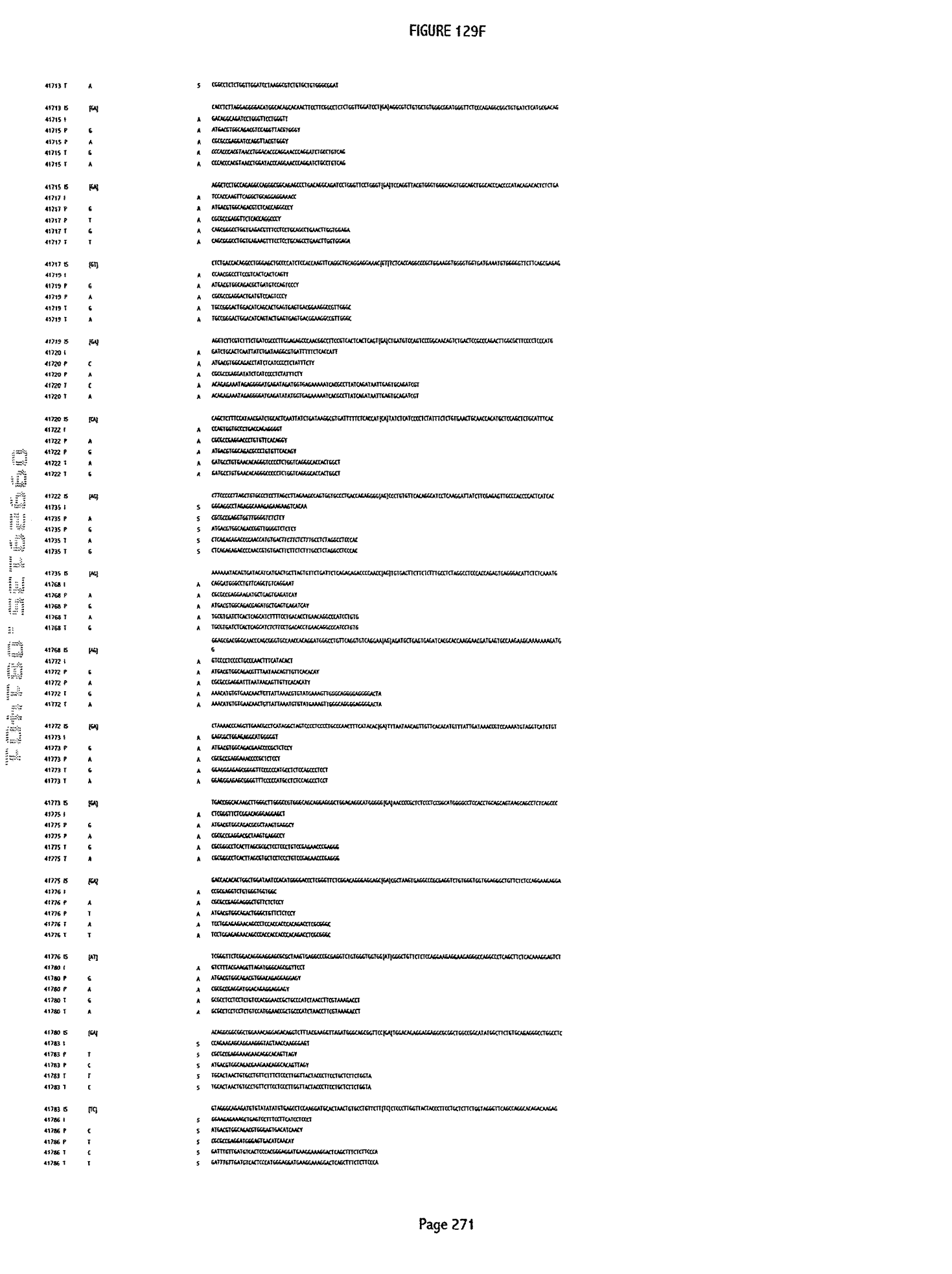
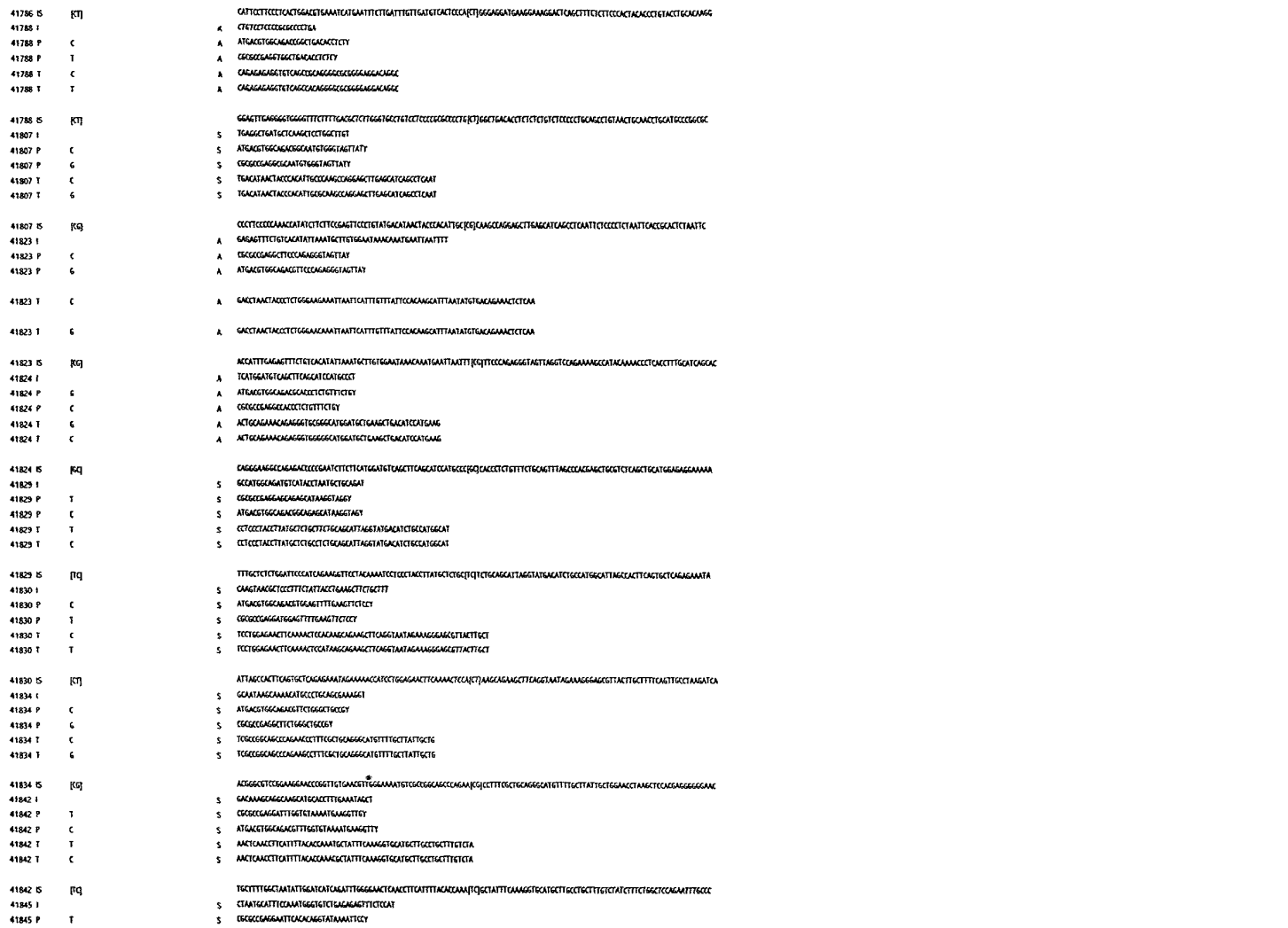
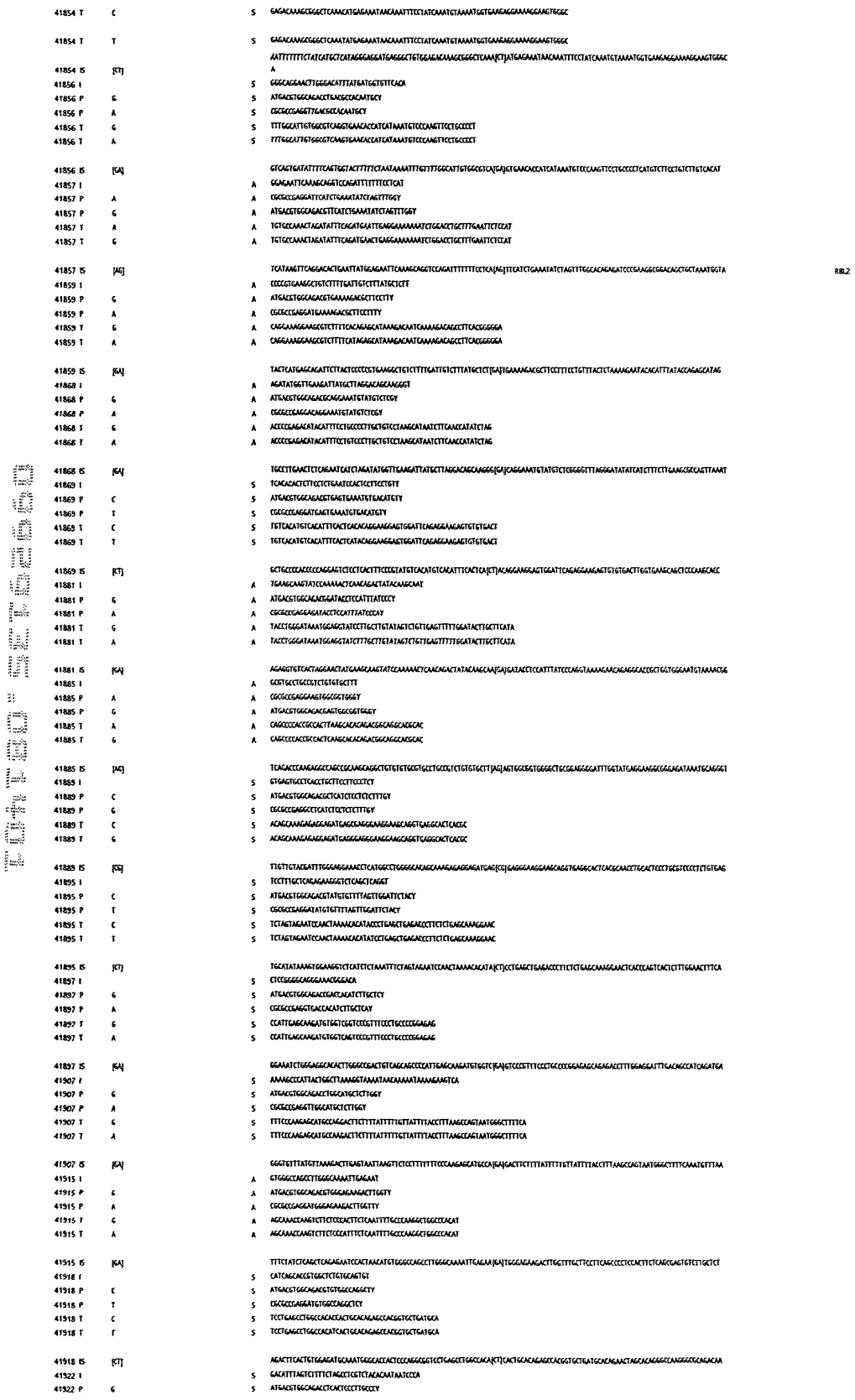
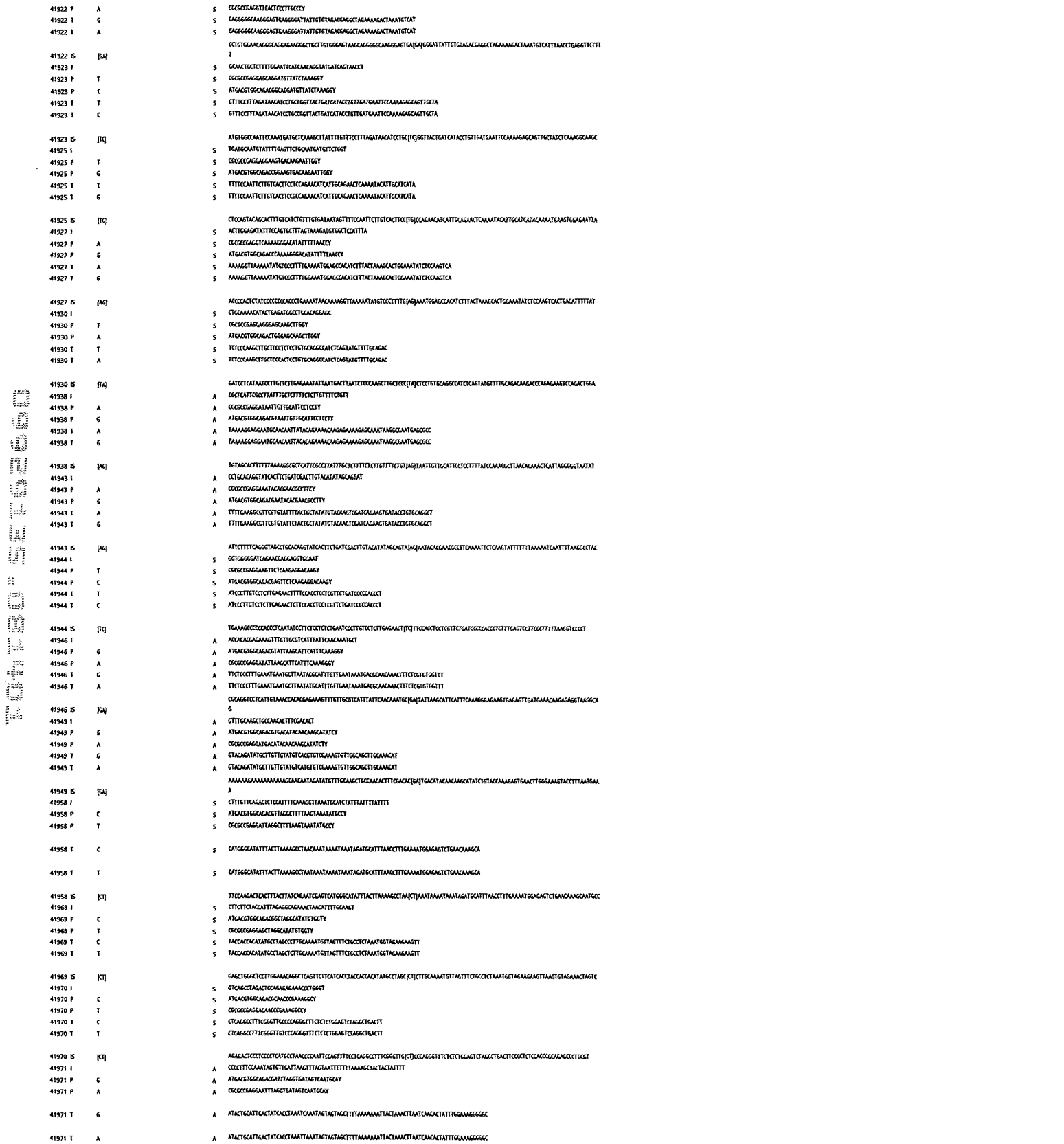

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41715 I A GACAGGCAGATCCTGGGTTCCTGGGTT
41715 P G A ATGACGTGGCAGAGGTCCAGGTTACGTGGGY
41715 P A A CGCGCCGAGGATCCAGGTTACGTGGGY
41715 T G A CCCACCCACGTAACCTGGACACCAGGAACCAGGATCTGCCTGTCAG
41715 T A A CCCACCCACGTAACCTGGATACCCAGGAACCAGGATCTGCCTGTCAG
41715 IS [GA] AGGCTCCTGCCAGAGGCCAGGGCGGCAGAGCCCTGACAGGCAGATCCTGGGTTCCTGGGT[GA]TCCAGGTTACGTGGGTGGGCAGTGGCAGCTGGCACCCACCCATACAGACACTCTCTGA
41717 I A TCCACCAAGTTCAGGCTGCAGGAGGAAACC
41717 P G A ATGACGTGGCAGAGGTCTCACCAGGCCCY
41717 P T A CGCGCCGAGGTTCTCACCAGGCCCY
41717 T G A CAGCGGGCCTGGTGAGACGTTTCCTCCTGCAGCCTGAACTTGGTGGAGA
41717 T T A CAGCGGGCCTGGTGAGAAGTTTCCTCCTGCAGCCTGAACTTGGTGGAGA
41717 IS [GT] CTCTGACCACAGGCCTGGGAGCTGCCCCATCTCCACCAAGTTCAGGCTGCAGGAGGAAAC[GT]TCTCACCAGGCCCGCTGGAAGGTGGGGTGGTGATGAAATGTGGGGGTTCTTCAGCGAGAG
41719 I A CCAACGCCTTCCGTCACTCACTCAGTT
41719 P G A ATGACGTGGCAGAGCGTGATGTCCAGTCCCY
41719 P A A CGCGCCGAGGACTGATGTCCAGTCCCY
41719 T G A TGCCGGGACTGGACATCAGCACTGAGTGAGTGACGGAAGGCCGTTGGGC
41719 T A A TGCCGGGACTGGACATCAGTACTGAGTGAGTGACGGAAGGCCGTTGGGC
41719 IS [GA] AGGTCTCGTCTTTCTGATCGCCCTTGGAGAGCCCAACGGCCTTCCGTCACTCACTCAGT[GA]CTGATGTCCAGTCCCGGCAACAGTCTGACTCCGCCCAGACTTGGCGCTTCCCCTCCCATG
41720 I A GATCTGCACTCAATTATCTGATAAGGCGTGATTTTTCTCACCATT
41720 P C A ATGAGGTGGCAGAGCCTATCTCATCCCCTCTATTTCTY
41720 P A A CGCGCCGAGGACTATCTCATCCCCTCTATTTCTY
41720 T C A ACAGAGAAATAGAGGGGATGAGATAGATGGTGAGAAAAATCAGCCTTATCAGATAATTGAGTGCAGATCGT
41720 T A A ACAGAGAAATAGAGGGGATGAGATATATGGTGAGAAAAATCAGCCTTATCAGATAATTGAGTGCAGATCGT
41720 IS [CA] CAGCTCTTTCCATAACGATCTGCACTCAATTATCTGATAAGGCGTGATTTTTCTCACCAT[CA]TATCTCATCCCCTCTATTTCTCTCTGTGAACTGCAACCACATGCTCCAGCTCTGCATTTCAC
41722 I A CCAGTGGTGCCCTGACCAGAGGGGT
41722 P A A CGCGCCGAGGACCCTGTGTTCACAGGY
41722 P G A ATGACGTGGCAGACGCCCTGTGTTCACAGY
41722 T A A GATGCCTGTGAACACAGGGTCCCCTCTGGTCAGGGCACCACTGGCT
41722 T G A GATGCCTGTGAACACAGGGCCCCCTCTGGTCAGGGCACCACTGGCT
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41735 I S GGGAGGCCTAGAGGCAAAGAGAAGAAGTCACAA
41735 P A S CGCGCCGAGGTGGTTGGGGTCYCTCTY
41735 P G S ATGACGTGGCAGACCGGTTGGGGTCYCTCY
41735 T A S CTCAGAGAGACCCCAACCATGTGACTCYCTCTCTTTGCCTCTAGGCCTCCCAC
41735 T G S CTCAGAGAGACCCCAACCGTGTGACTCYCTCTCTTTGCCTCTAGGCCTCCCAC
41735 IS [AG] AAAAAATACAGTGATACATCATGACTGCTTAGTGTTCTGATTCTCAGAGAGACCCCAACC[AG]TGTGACTTCTTCTCTTTGCCTCTAGGCCTCCCACCAGAGTGAGGGACATTCCTCTCAAATG
41768 I A CAGCATGGGCCTGTTCAGGTGTCAGGAAT
41768 P A A CGCGCCGAGGAAGATGCTGAGTGAGATCAY
41768 P G A ATGACGTGGCAGAGGAGATGCTGAGTGAGATCAY
41768 T A A TGCGTGATCTCACTCAGGATCTTTTCCTGACACCTGAACAGGCCCATCCTGTG
41768 T G A TGCGTGATCTCACTCAGGATCTCTTCCTGACACCTGAACAGGCCCATCCTGTG
41768 IS [AG] GGAGCGACGGGCAACCCAGCGGGTGCCAACCACAGGATGGGCCTGTTCAGGTGTCAGGAA[AG]AGATGCTGAGTGAGATCAGCACCAAGGAACGATGAGTGCCAAGAAGCAAAAAAGATG
G
41772 I A GTCCCCTCCCCTGCCCAACTTTCATACACT
41772 P G A ATGACGTGGCAGAGGTTTAATAACAGTTGTTCACACAY
41772 P A A CGCGCCGAGGAATTTAATAACAGTTGTTCACACATY
41772 T G A AAACATGTGTGAACAACTGTTATTAAACGTGTATGAAAGTTGGGCAGGGGAGGGGGACTA
41772 T A A AAACATGTGTGAACAACTGTTATTAAATGTGTATGAAAGTTGGGCAGGGGAGGGGGACTA
41772 IS [GA] CTAAAACCCAGGTTGAACGCCTCATAGGCTAGTCCCCTCCCCTGCCCAACTTTCATACAC[GA]TTTAATAACAGTTGTTCACACATGTTTATTGATAAACCCTCCAAAATGTAGGTCATGTGT
41773 I A GAGGGCTGGAGAGGCATGGGGGT
41773 P G A ATGACGTGGCAGACGAACCCGCTCTCCY
41773 P A A CGCGCCGAGGAAACCCCGCTCTCCY
41773 T G A GGAGGCAGAGCGGGGTTTCCCCCATGCCTCTCCAGCCCTCCT
41773 T A A GGAGGCAGAGCGGGGTTTCCCCCATGCCTCTCCAGCCCTCCT
41773 IS [GA] TGACCGGCACAAGCTTGGGCTTGGGCCGTGGGCAGCAGGAGGGCTGGAGAGGCATGGGGG[GA]AACCCCGCTCTCCCTCCGCATGGGGCCTCCACCTGCAGCAGTAAGCAGCCTCTCAGCCC
41775 I A CTCGGGTTCTCGGACAGGGAGGAGCT
41775 P G A ATGACGTGGCAGACGCGCTAAGTGAGGCY
41775 P A A CGCGCCGAGGACGCTAAGTGAGGCY
41775 T G A CGCGGCCTCACTTAGCGCGCTCCTCCTGTCCGAGAACCCCAGGG
41775 T A A CGCGGCCTCACTTAGCGTGCTCCTCCTGTCCGAGAACCCCAGGG
41775 IS [GA] GACCACACACTGGCTGGATAATCCACATGGGGACCCTCGGGTTCTCGGACAGGGAGGAGC[GA]CGCTAAGTGAGGCCCGCGAGGTCTGTGGGTGGTGCGAGGCTGTTCTCTCCAGGAAGAGGA
41776 I A CCGCGAGGTCTGTGGGTGGTGGC
41776 P A A CGCGCCGAGCAGGGCTGTTCTCTCCY
41776 P T A ATGACGTGGCAGACTGGGCTGTTCTCTCCY
41776 T A A TCCTGGAGAGAACAGCCCTCCACCACTCCACAGACCTCGCGGGC
41776 T T A TCCTGGAGAGAACAGCCCACACACCCACAGACCTCGCGGGC
41776 IS [AT] TCGGGTTCTCGGACAGCGGAGGAGGCGCTAAGTGAGGCCCGCGAGGTCTGTGGGTGGTGC[AT]GGGCTGTTCTCTCCAGGAAGAGGAACAGGGCCAGGCCCTCAGCTTCTCACAAAGGAGTCT
41780 I A GTCTTTACGAAGGTTAGATGGGCAGCGGTTCCT
41780 P G A ATGACGTGGCAGAGGTGGAAGAGGAGGAGY
41780 P A A CGCGCCGAGGATGGACAGAGGAGGAGY
41780 T G A GCGCCTCCTCCTCTGTCCACGGAACCGCTGCCCATCTAACCTTCGTAAAGACCT
41780 T A A GCGCCTCCTCCTCTGTCCATGGAACCGCTGCCCATCTAACCTTCGTAAAGACCT
41780 IS [GA] ACAGGCGGCCGGCTGGAAACAGCAGACAGGTCTTTACGAAGGTTAGATGGGCAGCGGTTCC[GA]TGGACACAGAGGAGGAGGCGCGACTGGCCGGCATATGGCTCTGTGCAGAGGGCCTGGCCTC
41783 I S CCAGAACAGCAGCAAGGGTAGTAACCAAGGGAGT
41783 P T S CGCCGCGAGGAAAGAACAGCCACAGTTAGY
41783 P C S ATGACGTGGCAGACGAAGAACAGCCACAGTTAGY
41783 T T S TGCACTAACTGTGCCTGTTCTTCTCCCTTGGTTACTACCCTTCCTGCTCTTCTGGTA
41783 T C S TGCACTAACTGTGCCTGTTCTTCCTCCCTTGGTTACTACCCTTCCTGCTCTTCTGGTA
41783 IS [TC] GTAGGGCAGAGATGTGTATATATGTGAGCCTCCAAGGATGCACTAACTGTGCCTGTTCTT[TC]CTCCCTTGGTTACTACCCTTCCTGCTCTTCTGGTAGGGTTCAGCCAGGCACAGACAGAG
41786 I S GGAAGAAAAGCTGAGTCCTTTCCTTCATCCTCCCT
41786 P C S ATGACGTGGCAGAGGTGGGAGTGACATCAACY
41786 P T S CGCGCCGAGGATGGGAGTGACATCAACAY
41786 T C S GATTTGTTGATGTCACTCCCACGGGAGGATGAAGGAAAGGACTCAGCTTTCTCTTCCCA
41786 T T S GATTTGTTGATGTCACTCCCATGGGAGGATGAAGGAAAGGACTCAGCTTTCTCTTCCCA

FIGURE 129F

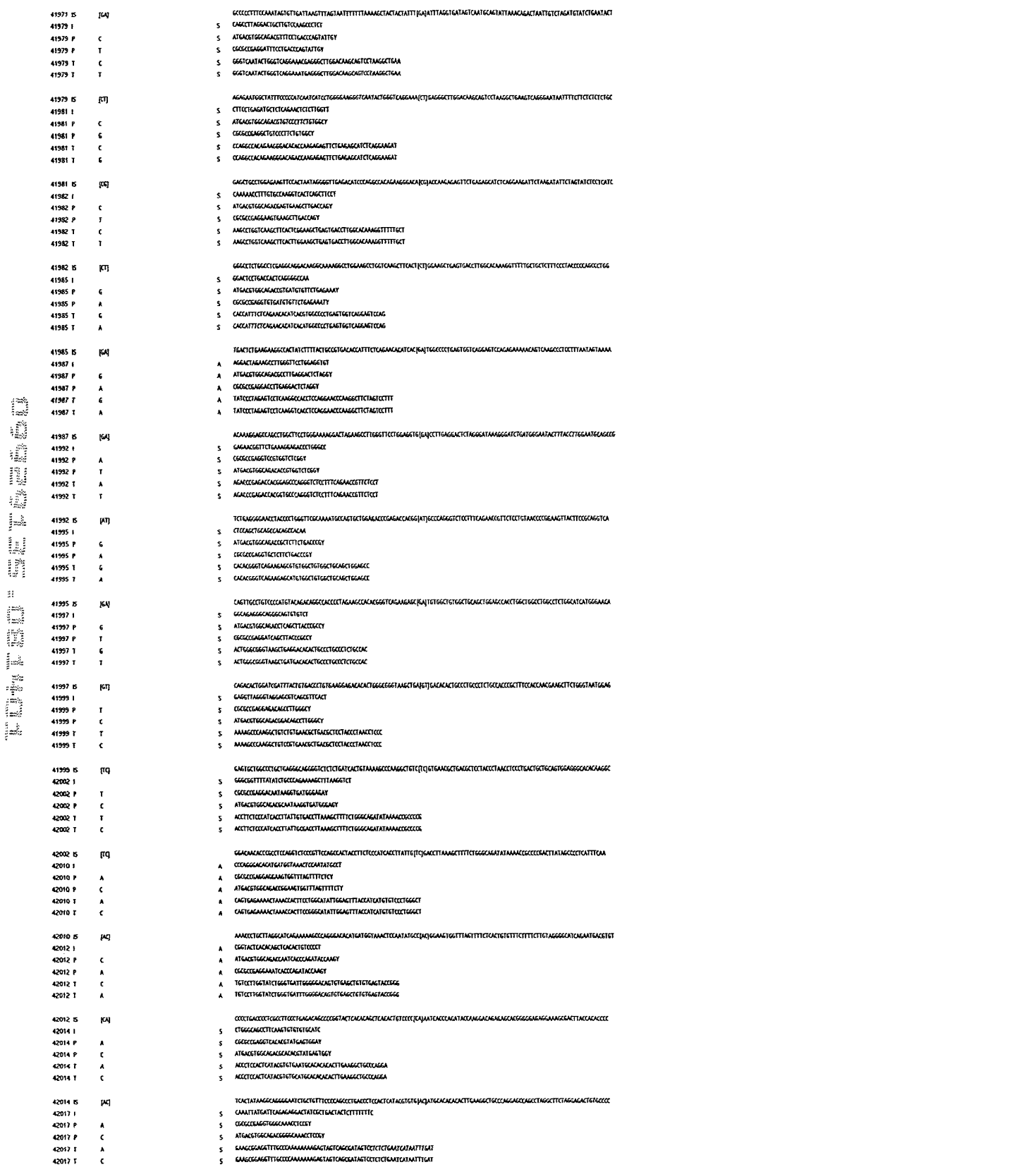






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FIGURE 129F





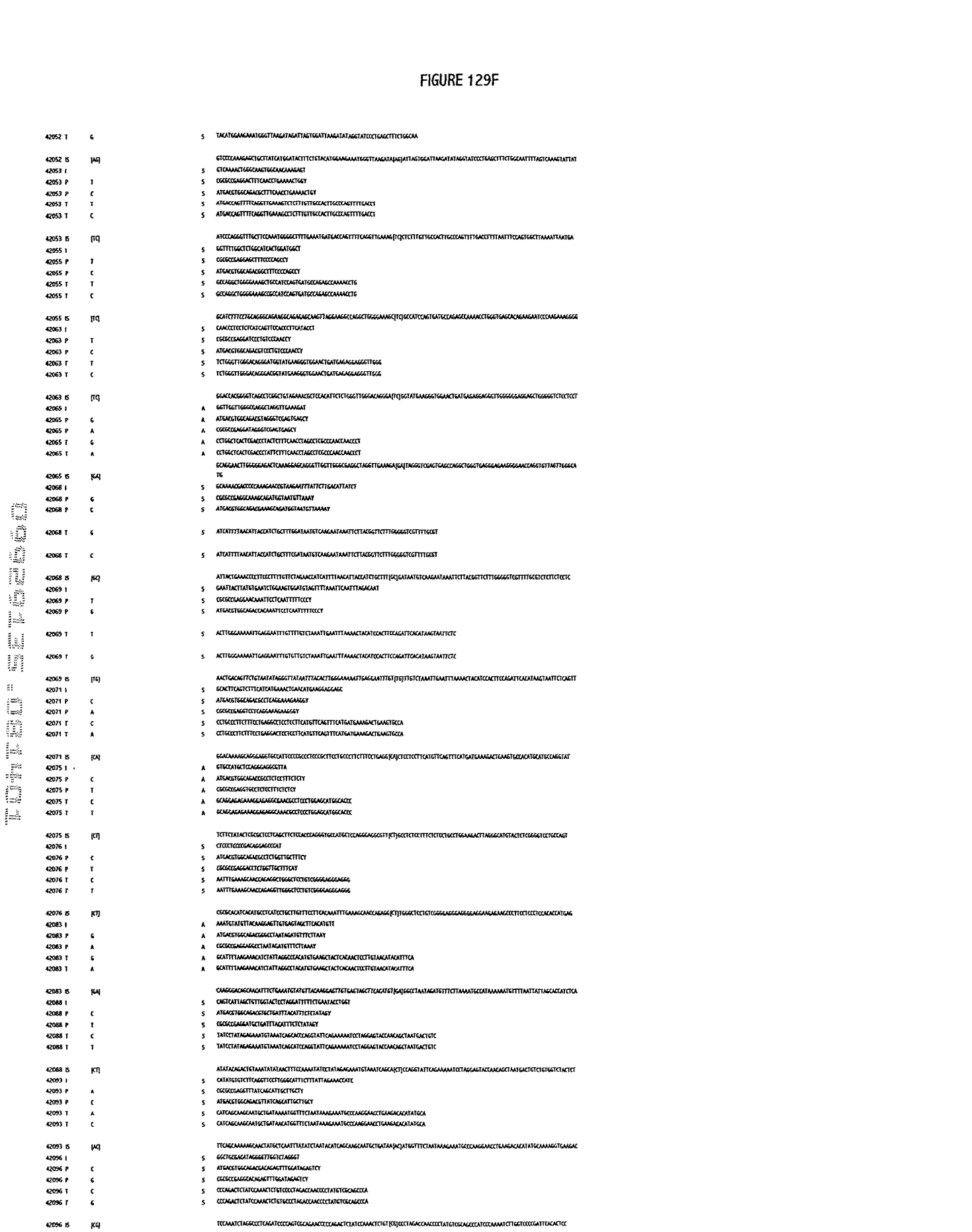


FIGURE 129F

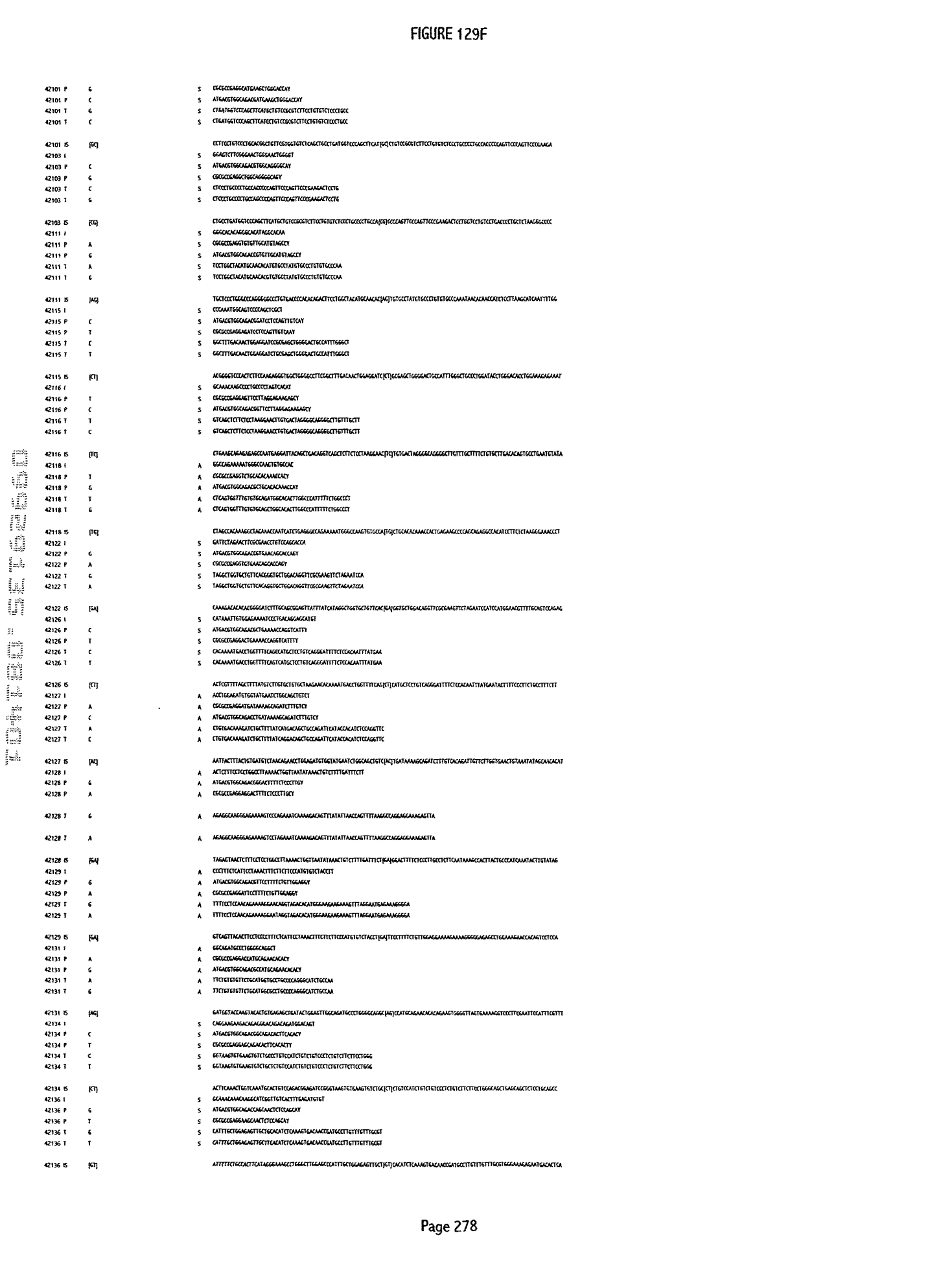


FIGURE 129F

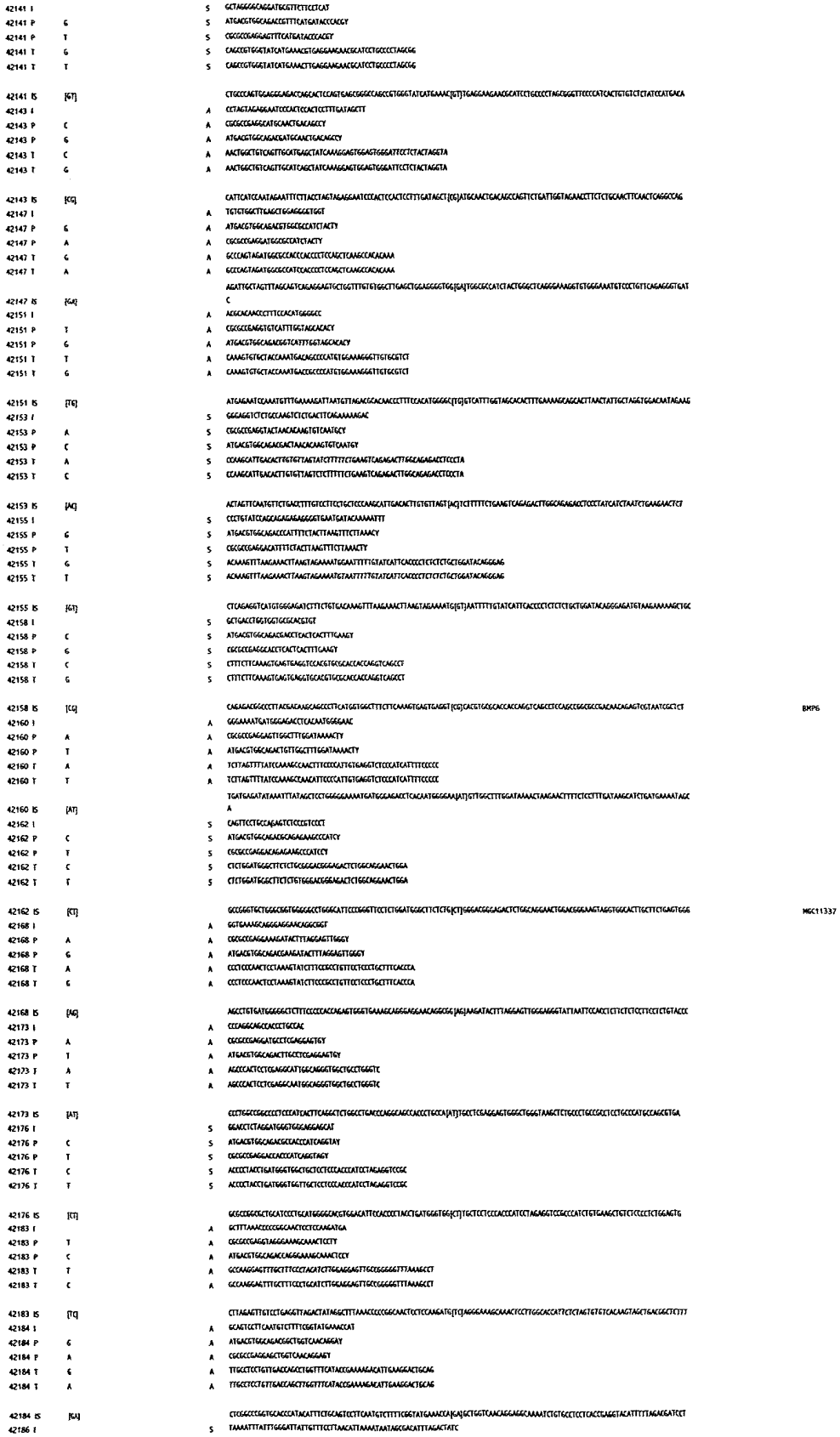

42141 I S GCTAGGGGCAGGATGCGTTCTTCCTCAT
42141 P G S ATGACGTGGCAGACCGTTTCATGATACCCACGY
42141 P T S CGCGCCGAGGAGTTTCATGATACCCACGY
42141 T G S CAGCCGTGGGTATCATGAAACGTGAGGAAGAACGCATCCTGCCCCTAGCGG
42141 T T S CAGCCGTGGGTATCATGAAACTTGAGGAAGAACGCATCCTGCCCCTAGCGG
42141 IS [GT] CTGCCCAGTGCAGGGAGACCAGCACTCCAGTGAGCGGGCCAGCCGTGGGTATCATGAAAC[GT]TGAGGAAGAAGCGCATCCTGCCCCTAGCGGGTTCCCCATCACTGTGCTCTATCCATGACA
42143 I A CCTAGTAGAGGAATCCCACTCCACTCCTTTGATAGCTT
42143 P C A CGCGCCGAGGCATGCAACTGACAGCCY
42143 P G A ATGACGTGGCAGACGATGCAACTGACAGCCY
42143 T C A AACTGGCTGTCAGTTGCATGAGCTATCAAAGGAGTGGAGTGGGATTCCTCTACTAGGTA
42143 T G A AACTGGCTGTCAGTTGCATCAGCTATCAAAGGAGTGGAGTGGGATTCCTCTACTAGGTA
42143 IS [CG] CATTCATCCAATAGAATTTCTTACCTAGTAGAGGAATCCCACTCCACTCCTTTGATAGCT[CG]ATGCAACTGACAGCCAGTCTCTGATTGGTAGAACCTTCTCTGCAACTTCAACTCAGGCCAG
42147 I A TGTGTGGCTTGAGCTGGAGGGGTGGT
42147 P G A ATGACGTGGCAGACGTGGCGCATCTACTY
42147 P A A CGCGCCGAGGATGCGCCATCTACTY
42147 T G A GCCCAGTAGATGGCGCCACCCACCCTCCAGCTCAAGCCACACAAA
42147 T A A GCCCAGTAGATGGCGCCATCCACCCCTCCAGCTCAAGCCACACAAA
42147 IS [GA] AGATTGCTAGTTTAGCAGTCAGAGGAGTGCTGGTTTGTGTGGGCTTGAGCTGGAGGGGTGG[GA]TGGCGCCATCTACTGGGCTCAGGGAAAGGTGTGGGAAATGTCCCTGTTCAGAGGGTGAT
C
42151 I A ACGCACAACCCTTTCCACATGGGGCC
42151 P T A CGCGCCGAGGTGTCATTTGGTAGCACACY
42151 P G A ATGACGTGGCAGACGGTCATTTGGTAGCACACY
42151 T T A CAAAGTGTGCTACCAAATGACAGCCCCATGTGGAAAGGGTTGTGCGTCT
42151 T G A CAAAGTGTGCTACCAAATGACCGCCCCATGTGGAAAGGGTTGTGCGTCT
42151 IS [TG] ATGAGAATCCAAATGTTTGAAAAGATTAATGTTAGACGCACAACCCTTTCCACATGGGGC[TG]GTCATTTGGTAGCACACTTTGAAAAGCAGCACTTAACTATTGCTAGGTGGACAATAGAAG
42153 I S GGGAGGTCTCTGCCAAGTCTCTGACTTCAGAAAAAGAC
42153 P A S CGCGCCGAGGTACTAACACAAGTGTCAATGCY
42153 P C S ATGACGTGGCAGACGACTAACACAAGTGTCAATGY
42153 T A S CCAAGCATTGACACTTGTGTTAGTATCTTTTTCTGAAGTCAGAGACTTGGCAGAGACCTCCCTA
42153 T C S CCAAGCATTGACACTTGTGTTAGTCTCTTTTTCTGAAGTCAGAGACTTGGCAGAGACCTCCCTA
42153 IS [AC] ACTAGTTCAATGTTCTGACCTTTGTCCTTCCTGCTCCCAAGCATTGACACTTGTGTTAGT[AC]TCTTTTCTGAAGTCAGAGACTTGGCAGAGACCTCCCTATCATCTAATCTGAAGAACTCT
42155 I S CCCTGTATCCAGCAGAGAGAGAGGGGTGAATGATACAAAAATTT
42155 P G S ATGACGTGGCAGACCCATTTTCTACTTAAGTTTCTTAAACY
42155 P T S CGCGCCGAGGACATTTTCTACTTAAGTTTCTTAAACTY
42155 T G S ACAAGTTTAAGAAACTTAAGTAGAAAATGGAATTTTTGTATCATTCACCCCTCTCTCTGCTGGATACAGGGAG
42155 T T S ACAAGTTTAAGAAACTTAAGTAGAAAATGTAATTTTTGTATCATTCACCCCTCTCTCTGCTGGATACAGGGAG
42155 IS [GT] CTCAGAGGTCATGTGGGAGATCTTTCTGTGACAAAGTTTAAGAAACTTAAGTAGAAAATG[GT]AATTTTTGTATCATTCACCCCTCTCTCTGCTGGATACAGGGAGATGTAAGAAAAAGCTGC
42158 I S GCTGACCTGGTGGTGCGCACGTGT
42158 P C S ATGACGTGGCAGACGACCTCACTCACTTTGAAGY
42158 P G S CGCGCCGAGGCACCTCACTCACTTTGAAGY
42158 T C S CTTTCTTCAAAGTGAGTGAGGTCCACGTGCGCACCACCAGGTCAGCCT
42158 T G S CTTTCTTCAAAGTGAGTGAGGTGCACGTGCGCACCACCAGGTCAGCCT
42158 IS [CG] CAGAGACGGCCCTTACGACAAGCAGCCCTCATGGTGGCTTTCTTCAAAGTGAGTGAGGT[CG]CACGTGCGCACCACCAGGTCAGCCTCCAGCCGGCGCCGACACAGAGTCGTAATCGCTCT BMP6
42160 I A GGGAAAATCATGGCAGACCTCACAATGGGGAAC
42160 P A A CGCGCCGAGGAGTTGGCTTTGGATAAAACTY
42160 P T A ATGACGTGGCAGACTGTTGGCTTTGGATAAAACTY
42160 T A A TCTTAGTTTTATCCAAAGCCAACTTTCCCCATTGTGAGGTCTCCCATCATTTTCCCCC
42160 T T A TCTTAGTTTTATCCAAAGCCAACATTCCCCATTGTGAGGTCTCCCATCATTTTCCCCC
42160 IS [AT] TGATGAGATATAAAATTTATAGCTCCTGGGGGAAAATGATGGGAGAGCTCACAATGGGGAAA[AT]GTTGGCTTTGGATAAAACTAAGAACTTTTCTCCTTTGATAAGCATCTGATGAAAATAGC
A
42162 I S CAGTTCCTGCCAGAGTCTCCCGTCCCT
42162 P C S ATGACGTGGCAGACGCAGAGAAGCCCATCY
42162 P T S CGCGCCCAGGACAGAGAAGCCCATCCY
42162 T C S CTCTGGATGGGCTTCTCTGCGGGACGGGAAGACTCTGGCAGGAACTGGA
42162 T T S CTCTGGATGGCTTCTCTGTGGGACGGAAGACTCTGGCAGGAACTGGA
42162 IS [CT] GCCGGGTGCTGGGCGGTGGGGGCCTGGGCATTCCCGGGTTCCTCTGGATGGGCTTCTCTG[CT]GGGACGGCAGACTCTGGCAGGAACTGGACGGGAAGTAGGTGGCACTTGCTTCTGAGTGGG MGC11337
42168 I A GGTGAAAGCAGGCAGGAACAGGCGGT
42168 P A A CGCGCCGAGGAAAGATACTTTAGGAGTTGGGY
42168 P G A ATGACGTGGCAGACGAAGATACTTTAGGAGTTGGGY
42168 T A A CCCTCCCAACTCCTAAAGTATCTTCCGCCTGTTCCTCCCTGCTTTCACCCA
42168 T G A CCCTCCCAACTCCTAAAGTATCTTCCCGCCTGTTCCTCCCTGCTTTCACCCA
42168 IS [AG] AGCCTGTGATGGGGGCTCTTTCCCCCACCAGAGTGGGTGAAAGCAGGGAGGAACAGGCGG[AG]AAGATACTTTAGGAGTTGGGAAGGTATTAATTCCACCTCTTCTCCTTCCCTCTGTACCC
42173 I A CCCAGGCAGCCACCCTGCCAC
42173 P A A CGCGCCGAGGATGCCTCGAGGAGTGY
42173 P T A ATGACGTGGCAGACTTGCCTCGAGGAGTGY
42173 T A A AGCCCACTCCTCGAGGCATTGGCAGGGTGGCTGCCTGGGTC
42173 T T A AGCCCACTCCTCGAGGCAATGGCAGGGTGGCTGCCTGGGTC
42173 IS [AT] CCCTGGCCGGCCCCTCCCATCACTTCAGGCTCTGGCCTGACCCAGGCAGCCCACCCTGCCA[AT]TGCCTCGAGGAGTGGGCTGGGTAAGCTCTGCCCTGCCGGCTCCTGCCCATGCCAGCGTGA
42176 I S GGACCTCTAGGATGGGTGGCAGGAGCAT
42176 P C S ATGACGTGGCAGACGCCACCCATCAGGTAY
42176 P T S CGCGCCGAGGACACCCATCAGGTAGY
42176 T C S ACCCCTACCTGATGGGTGGCTGCTCCTCCCACCCATCCTAGAGGTCCGC
42176 T T S ACCCCTACCTGATGGGTGGTTGCTCCTCCCACCCATCCTAGAGGTCCGC
42176 IS [CT] GCGCCGGCGCTGCATCCCTGCATGGGGCCNCGTGGACATTCCACCCCTACCTGATGGGTGG[CT]TGCTCCTCCCACCCATCCTAGAGGTCCGCCCATCTGTGAAGCTGTCTCCCCTCTGGAGTG
42183 I A GCTTTAAACCCCCGGCCAACTCCTCCAAGATGA
42183 P T A CGCGCCGAGGTAGGGAAAGCAAACTCCTY
42183 P C A ATGACGTGGCAGACCAGGAAAGCAAACTCCY
42183 T T A GCCAAGGAGTTTGCTTCCCTACATCTTGGAGGAGTTGCCGGGGGGTTTAAAGCCT
42183 T C A GCCAAGGAGTTTGCTTCCCTGCATCTTGGAGGAGTTGCCGGGGGTTTAAAGCCT
42183 IS [TC] CTTAGAGTTGTCCTGAGGTTAGACTATAGGCTTTAAACCCCCGGCAACTCCTCCAAGATG[TC]AGGGAAAGCAAACTCCTTGGCACCATCTCTCTAGTGTGTCACAAGTAGCTGACGGCTCTTT
42184 I A GCAGTGCTTCAATGTCTTTTCGGTATGAAACCAT
42184 P G A ATGACGTGGCAGACGGCTGGTCAACAGGAY
42184 P A A CGCGCCGAGGAGCTGGTCAACAGGAGY
42184 T G A TTGCCTCCTGTTGACCAGCCTGGTTTCATACCGAAAAGACATTGAAGGACTGCAG
42184 T A A TTGCCTCCTGTTGACCAGCTTGGTTTCATACCGAAAAGACATTGAAGGACTGCAG
42184 IS [CA] CTCGGCCCGGTGCACCCATACATTTCTGCAGTCCTTCAATGTCTTTCGGTATGAAACCA[CA]GCTGGTCAACAGGAGGCAAAATCTGTGCCTCCTCACCGAGGTACATTTTTAGACGATCCT
42186 I S TAAAATTTATTTGGGATTATTGTTTCCTTAACATTAAAATAATAGCGACATTTAGACTATC

FIGURE 129F


42186 P A S CGCGCGAGGTCAATTTTAGCATAGAAAGGAGTY
42186 P C S ATGACGTGGCAGACGCAATTTTAGCATAGAAAGGAGY
42186 T A S AAAGACTCCTTTCTATGCTAAAATTGAATAGTCTAAATGTCGCTATTATTTAATGTTAAGGAAACAATAATCCCAAATAAATTTTA
42186 T C S AAAGACTCCTTTCTATGCTAAAATTGCATAGTCTAAATGTCGCTATTATTTAATGTTAAGGAAACAATAATCCCAAATAAATTTTA
42186 IS [AC] ATCTCAAAGAGAATTTTCAAAACTGTACATACTCAAAGACTCCTTTCTATGCTAAAATTG[AC]ATAGTCTAAATGTCGCTATTATTTTAATGTTAAGGAAACAATAATCCCAAATAAATTTTA
42188 I S CTCAACTTTTGTATGTGCTAACCTTAAAGTGAAGTTCTGAGCCCT
42188 P T S CGCGCCGAGGATGTGCCATTACAGTGCY
42188 P C S ATGACGTGGCAGACGTGTGCCATTACAGTGCY
42188 T T S AAAACCACTGTAATGGCACATGGGCTCAGAACTTCACTTTAAGTTAGCACATACAAAAGTTGAGAA
42188 T C S AAAGCACTGTAATGGCACACGGGCTCAGAACTTCACTTTAAGTTAGCACATACAAAAGTTGAGAA
42188 IS [TC] TTTAATGTTAAGGAAACAATAATCCCAAATAAATTTTATTAAAAGCACTGTAATGGCACA[TC]GGGCTCAGAACTTCACTTTAAGTTAGCACATACAAAAGTTGAGAACTGAATGAACAAAC
42192 I S TCAGTATCTCACTTCATTCTGTTGATTAAATTAAGATTTTTTTCACTACATTCATGTAATA
42192 P G S ATGACGTGGCAGACCCAACTCCTTTATGAGCY
42192 P A S CGCGCCGAGGTCAACCTCCTTTATGAGCY
42192 T G S AATGGCTCATAAAGGAGGTTGGATTACATGAATGTAGTGAAAAAAATCTTAATTTAATCAACAGAATGAAGTGAGATACTGA
42192 T A S AATGGCTCATAAAGGAGGTTGAATTACATGAATGTAGTGAAAAAAATCTTAATTTAATCAACAGAATGAAGTGAGATACTGA
42192 IS [GA] GAATTCTTCTCTTTATTGTTTTGGACTTCCTCCTTCATTAATGGCTCATAAAGGAGGTTG[GA]ATTACATGAATGTAGTGAAAAAAATCTTAATTTAATCAACAGAATGAAGTGAGATACTGA
42193 I A GGCTTGGTCACAGCTACTAATGTTCAGGGCTCTTTT
42193 P C A ATGACGTGGCAGACCTATACCTGAGGCCTTCTY
42193 P A A CGCGCCGAGGATATACCTGAGGCCTTCTCY
42193 T C A CTAGGAGAAGGCCTCAGGTATAGAAAGAGCCCTGAACATTAGTAGCTGTGACCAAGCCAG
42193 T A A CTAGGAGAAGGCCTCAGGTATATAAAGAGCCCTGAACATTAGTAGCTGTGACCAAGCCAG
42193 IS [CA] TCAGAATTCCTCCCAATGCCCAGCTGGCTTGGTCACAGCTACTAATGTTCAGGGCTCTTT[CA]TATACCTGAGGCCTTCTCCTAGTATTTGAGGAAAAGGAATAACCTGGCTAAGAATCAGCA
42194 I A GCCAAACAGAGCCCTGTAATGAGATCGCTAGTTCTCT
42194 P A A CGCGCCGAGGATATGCTTCAAGGTCTGAAAY
42194 P G A ATGACGTGGCAGACGTATGCTTCAAGGTCTGAAAY
42194 T A A ACTGTTTCAGACCTTGAAGCATATGAGAACTAGCGATCTCATTACAGGGCTCTGTTTGGCTT
42194 T G A ACTGTTTCAGACCTTGAAGCATACGAGAACTAGCGATCTCATTACAGGGCTCTGTTTGGCTT
42194 IS [AG] ACTATCAAAGCACTTGACTCTTAAGCCAAACAGAGCCCTGTAATGAGATCGCTAGTTCTC[AG]TATGCTTCAAGGTCTGAAACAGTGAATGATGTCAAGAAAAGTGTTGTTTACTACAGTCCA
42197 I S GAAAAGCTTCTCCAGGTTTCATCAACCAAATGTTGGCATTTTTTAGC
42197 P C S ATGACGTGGCAGACGTTTACATTTAGTTTTACATTATTCAAAGY
42197 P A S CGCGCCGAGGTTTTACATTTAGTTTTACATTATTCAAAGY
42197 T C S GTAGCCTTTGAATAATGTAAAACTAAATGTAAACCTAAAAAATGCCAACATTTGGTTGATGAAACCTGGAGAAGCTTTTCAA
42197 T A S GTAGCCTTTGAATAATGTAAAACTAAATGTAAAACTAAAAAATGCCAACATTTGGTTGATGAAACCTGGAGAAGCTTTTCAA
42197 IS [CA] TGTCACCCTCTTTCTAGACACACAGAAGTAGCCTTTGAATAATGTAAAACTAAAAAATGCCAACATTTGGTTGATGAAACCTGGAGAAGCTTTTCAATAAGAATTCATT
42201 I A GTTTCTCACAGGGAAAAAGCCTAACATTGCAGATTAGGAAAATGTT
42201 P A A CGCGCCGAGGATGGAATTCTAAGGTGAGTCY
42201 P G A ATGACGTGGCAGACGTGGAATTCTAAGGTGAGTCY
42201 T A A TTTTGACTCACCTTAGAATTCCATACATTTTCCTAATCTGCAATGTTAGGCTTTTTCCCTGTGAGAAACTT
42201 T G A TTTTGACTCACCTTAGAATTCCACACATTTTCCTAATCTGCAATGTTAGGCTTTTTCCCTGTGAGAAACTT
42201 IS [AG] GGTACTATTTGGAAAGTTTCTCACAGGGAAAAAGCCTAACATTGCAGATTAGGAAAATGT[AG]TGGAATTCTAAAGTGAGTCAAAACTCAGTTCTATTTCAGGTTTCCAATGCTGTAAATCAA
42205 I S TGCCTCCAGGGATCTCCAAAATGGGGGC
42205 P C S ATGACGTGGCAGAGTTGTCTGCTGAACTAGGY
42205 P A S CGCGCCGAGGTTTGTCTGCTGAACTAGGY .
42205 T C S ACCACCTAGTTTCAGCAGACAAACCCCCATTTTGGAGATCCCTGCAGGCAGG
42205 T A S ACCACCTAGTTTCAGCAGACAAACCCCCATTTTGGAGATCCCTGGAGGCAGG
42205 IS [CA] CTTGGGATTCAGGGGCTCAGCCACTGCCCTGTCTGCCCACCACCTAGTTTCAGCAGACAA[CA]CCCCCATTTTGGAGATCCCTGGAGGCAGGCTGGGGATGAGAGGAAATGATGCAGCCCCCTG
42206 I S CACCAGGCAGGGGGTGGGCAT
42206 P C S ATGACGTGGCAGACGGCGGCATGGGGY
42206 P T S CGCGCCGAGGAGCGGCATGGGGY
42206 T C S GAGTCCCCATGCCGCCTGCCCACCCCCTGCCTGGTGGG
42206 T T S GAGTCCCCATGCCGCTTGCCCACCCCCTGCCTGGTGGG
42206 IS [CT] CCGCCTGAAGCTCTTCACCCATCTGCGGCAGGACCTAGAGAGGGTGAGTCCCCATGCCGC[CT]TGCCCACCCCCTGCCTGGTGGGTCCAGGAGTCCTTTCCATGCCACACTCACTGCCCTGGA
42212 I S CCCAGTGTGGGTGTGGGCCTCTGAATT
42212 P T S CGCGCCGAGGATAACCCACACCCAGCY
42212 P G S ATGACGTGGCAGACCTAACCCACACCCAGCY
42212 T T S CTACGCTGGGTGTGGGTTATATTCAGAGGCCCACACCCACACTGGGGT
42212 T G S CTACGCTGGGTGTGGGTTAGATTCAGAGGCCCACACCCACACTGGGGT
42212 IS [TG] TGAAGCAGACACTCGGGAGCCCTCCCGGCTCAGACTCCCCCTACGCTGGGTGTGGGTTA[TG]ATTCAGAGGCCCACACCCACACTGGGGTAGGTTAGGTATGGTTTACTTAGCCACAGGCCC SIRT2
42214 I S GGAAGTTCAGCATCGGAAGTCAGATTTAGGAGTATGAGGTTAGT
42214 P G S CGCGCCGAGGCAAGCCTCAGGGATCAY
42214 P C S ATGACGTGGCAGACGAAGCCTCAGGGATCAY
42214 T G S TCTCTGATCCCTGAGGCTTGCTAACCTCATACTCCTAAATCTGACTTCCGATGCTGAACTTCCTG
42214 T C S TCTCTGATCCCTGAGGCTTCCTAACCTCATACTCCTAAATCTGACTTCCGATGCTGAACTTCCTG
42214 IS [GC] CCAAACGGAGCCCTAGGACCCGGCGTCACATTCCTCATTAATCTCTGATCCCTGAGGCTT[GC]CTAACCTCATACTCCTAAATCTGACTTCCGATGCTGAACTTCCTGACCTCTAACCCCCGA
42219 I S TGGGGTGCCCACCTCTAGATGTGAGAAAAAATCAA
42219 P A S CGCGCCGAGGTATGGGCTTACACCACGY
42219 P G S ATGACGTGGCAGACCATGGGCTTACACCACY
42219 T A S CCTGCGTGGTGTAAGCCCATATGATTTTTTCTCACATCTAGAGGTGGGCACCCCAGC
42219 T G S CCTGCGTGGTGTAAGCCCATGTGATTTTTTCTCACATCTAGAGGTGGGCACCCCAGC
42219 IS [AG] GATCAGGTTGCCTTTGGCTGCAAATGACAGAGCACTCAGTCCTGCGTGGTGTAAGCCCAT[AG]TGATTTTTTCTCACATCTAGAGGTGGGCACCCCAGCACCGACTTGGCTGAGCACTGATGT
42220 I A CATGGCCACCCTAGTGCAACAAAGCCTCT
42220 P G A ATGACGTGGCAGACGGAAAGCCAGAGTCTAACY
42220 P A A CGCGCCGAGGAGAAAGCCAGAGTCTAACTY
42220 T G A GCAGAGTTAGACTCTGGCTTTCCGAGGCTTTGTTGCACTAGGGTGGCCATGGA
42220 T A A GCAGAGTTAGACTCTGGCTTTCTGAGGCTTTGTTGCACTAGGGTGGCCATGGA
42220 IS [GA] GCAGCTGGGAGTCACTGTCCAGCACTGGGTTCCATGGCCACCCTAGTGCAACAAAGCCTC[GA]CAAAGCCAGAGTCTAACTCTGCAGCCTCTCCAGCCAGGAACGCGGGGAGGAGGAGGAGTCAGG
42221 I S CCCACCTCCCGGAAAGAGCACATTTTCCAT
42221 P G S CGCGCCGAGGCTGGAGTAAAAATTTGGGAAGY
42221 P C S ATGACGTGGCAGACGTGGAGTAAAAATTTGGGAAGY

FIGURE 129F

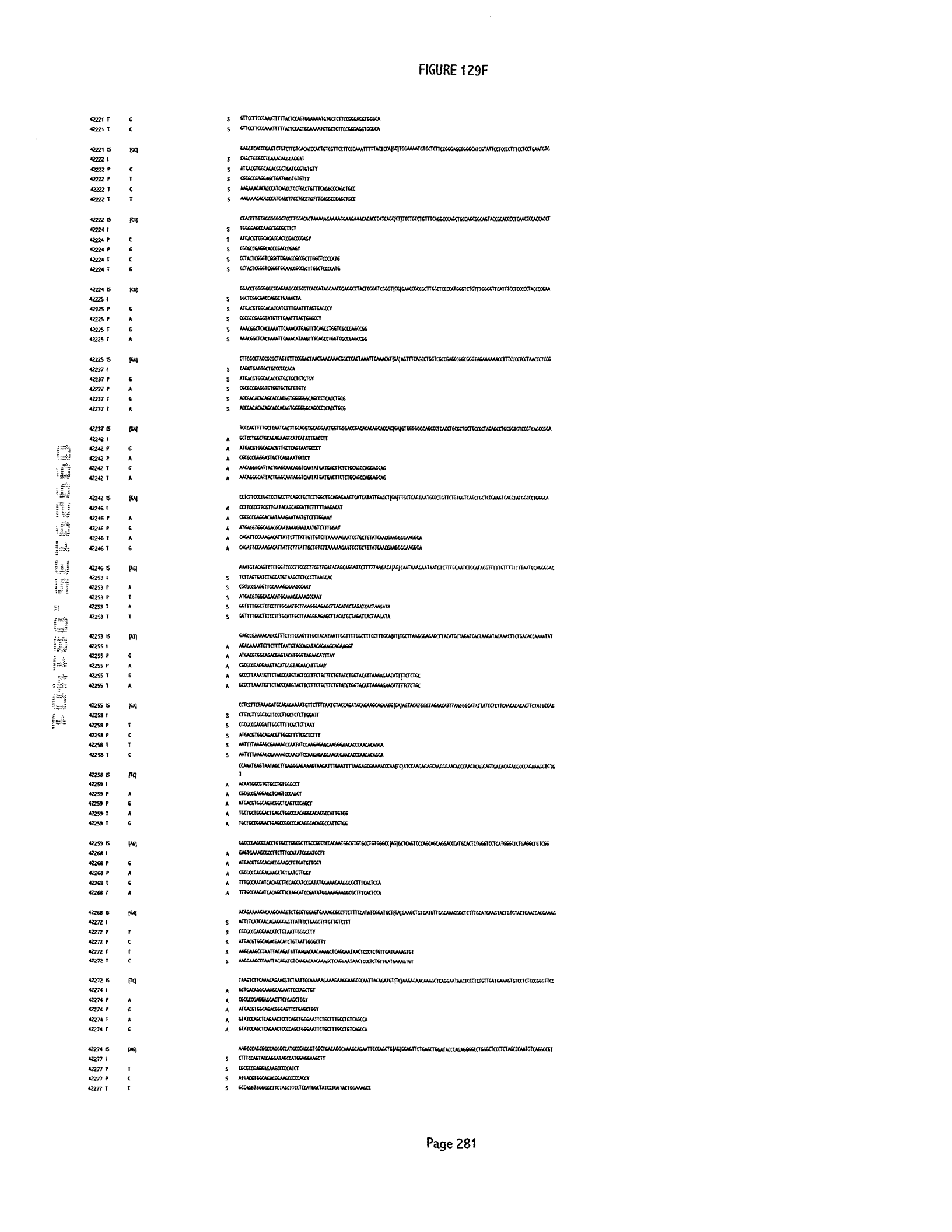
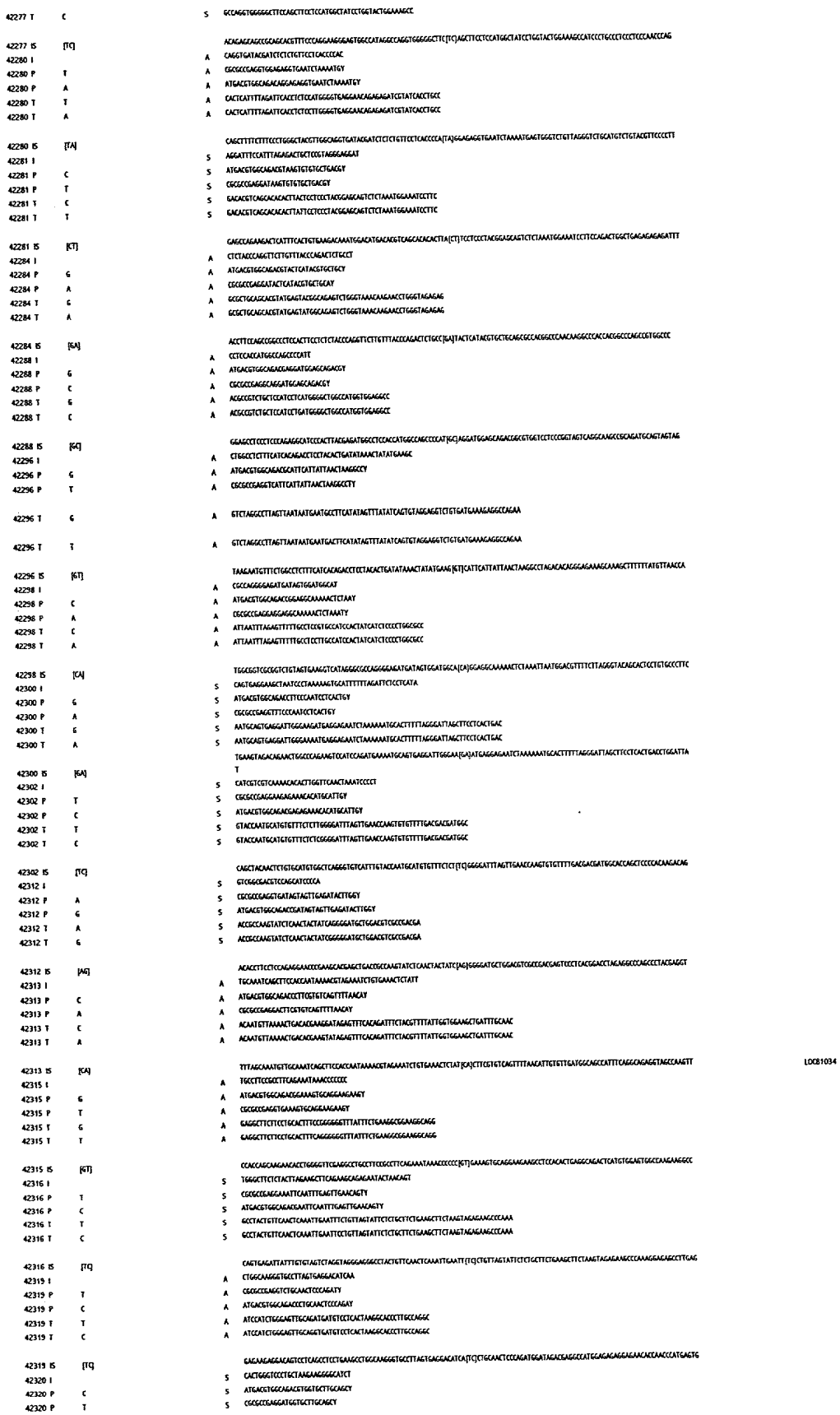


FIGURE 129F


42277 T C
S GCCAGGTGGGGGCTTCCAGCTTCCTCCATGGCTATCCTGGTACTGGAAAGCC
42277 IS [TC]
ACAGAGEAGCCGCAGCACGTTTCCCAGGAAGGGAGTGGCCATAGGCCAGGTGGGGGCTTC[TC]AGCTTCCTCCATGGCTATCCTGGTACTGGAAAGCCATCCCTGCCCTCCCTCCCAACCCAG
42280 I A CAGGTGATACGATCTCTCTGTTCCTCACCCCAC
42280 P T A CGCGCCCAGGTGGAGAGGTGAATCTAAAATGY
42280 P A A ATGACGTGGCAGACAGGAGAGGTGAATCTAAAATGY
42280 T T A CACTCATTTTAGATTCACCTCTCCATGGGGTGAGGAACAGAGAGATCGTATCACCTGCC
42280 T A A CACTCATTTTAGATTCACCTCTCCTTGGGGTGAGGAACAGAGAGATCGTATCACCTGCC
42280 IS [TA] CAGCTTTTCTTTCCCTGGGCTACGTTGGCAGGTGATACGATCTCTCTGTTCCTCACCCCA[TA]GGAGAGGTGAATCTAAAATGAGTGGGTCTGTTAGGGTCTGCATGTCTGTACGTTCCCCTT
42281 I S AGGATTTCCATTTAGAGACTGCTCCGTAGGGAGGAT
42281 P C S ATCACGTGGCAGACGTAAGTGTGTGCTGACGY
42281 P T S CGCGCCGAGGATAAGTGTGTGCTGACGY
42281 T C S GACACGTCAGCACACACTTACTCCTCCCTACGGAGCAGTCTCTAAATGGAAATCCTTC
42281 T T S GACACGTCAGCACACACTTATTCCTCCCTACGGAGCAGTCTCTAAATGGAAATCCTTC
42281 IS [KT] GAGCCAGAAGACTCATTTCACTGTGAAGACAAATGGACATGACAGGTCAGCACACACTTA[CT]TCCTCCCTACGGAGCAGTCTCTAAATGGAAATCCTTCCAGACTGGCTGAGAGAGAGATTT
42284 I A CTCTACCCAGGTTCTTGTTTACCCAGACTCTGCCT
42284 P G A ATGACGTGGCAGACAGGATGAGGCAGACGY
42284 P A A CGCGCCGAGGATACTCATACGTGCTGCAY
42284 T G A GCGCTGCAGCACGTATGAGTATGGCAGAGTCTGGGTAAACAAGAACCTGGGTAGAGAG
42284 T A A GCGCTGCAGCACGTATGAGTATGGCAGAGTCTGGGTAAACAAGAACCTGGGTAGAGAG
42284 IS [GA] ACCTTCCAGCCGGCCCTCCACTTCCTCTCTACCCAGGTTCTTGTTTACCCAGACTCTGCC[GA]TACTCATACGTGCTGCAGCGGCCACGGCCCAACAAGGCCCACCAGGCCCAGCCGTGGCCC
42288 I A CCTCCAACATGGCCAGCCCCATT
42288 P G A ATGACGTGGCAGACGAGGATGAGGCAGACGY
42288 P C A CGCGCCGAGGCAGGATGCAGCAGACGY
42288 T G A ACGCCGTCTGCTCCATCTCATGGGGCTGGCCATGGTGGAGGCC
42288 T C A ACGCCGTCTGCTCCATCTGATGGGGCTGGCCATGGTGGAGGCC
42288 IS [GC] GGAGCCTCCCTCCCAGAGGCATCCCACTTACGAGATGGCCTCCACCATGGCCAGCCCCATG[GC]AGGATGGAGCAGACGGCGTGGTCCTCCCGGTAGTCAGGCAAGCCGCAGATGCAGTAGTAG
42296 I A CTGGCCTCTTTCATCACAGACCTCCTACACTGATATAAACTATATGAAGC
42296 P G A ATGACGTGGCAGACGCATTCATTATTAACTAAGGCCY
42296 P T A CGCGCCGAGGTCATTCATTATTAACTAAGGCCTY
42296 T G A GTCTAGGCCTTAGTTAATAATGAATGCCTTCATATAGTTTATATCAGTGTAGGAGGTCTGTGATGAAAGAGGCCAGAA
42296 T T A GTCTAGGCCTTAGTTAATAATGAATGACTTCATATAGTTTATATCAGTGTAGGAGGTCTGTGATGAAAGAGGCCAGAA
42296 IS [GT] TAAGAATGTTTCTGGCCTCTTTCATCACAGACCTCCTACACTGATATAAACTATATGAAG[GT]CATTCATTATTAACTAAGGCCTAGACACAGGGAGAAAGCAAAGCTTTTTTATGTTAACCA
42298 I A CGCCAGGGGAGATGATAGTGGATGGCAT
42298 P C A ATGACGTGGCAGACGGAGGCAAAAACTCTAAY
42298 P A A CGCGCCCAGGAAGGAGGCAAAAACTCTAAATY
42298 T C A ATTAATTTAGAGTTTTTGCCTCCGTGCCATCCACTATCATCTCCCCTGGCGCC
42298 T A A ATTAATTTAGAGTTTTTGCCTCCTTGCCATCCACTATCATCTCCCCTGGCGCC
42298 IS [CA] TGGCGGTCGCGGTCTGTAGTGAAGGTCATAGGGCGCCAGGGGAGATGATAGTGGATGGCA[CA]GGAGGCAAAAACTCTAAATTAATGGACGTTTTCTTAGGGTACAGCACTCCTGTGCCCTTC
42300 I S CAGTGAGGAAGCTAATCCCTAAAAAGTGCATTTTTTAGATTCTCCTCATA
42300 P G S ATGACGTGGCAGACCTTCCCAATCCTCACTGY
42300 P A S CGCGCCGAGGTTTCCCAATCCTCACTGY
42300 T G S AATGCAGTGAGGATTGGGAAGATGAGGAGAATCTAAAAAATGCACTTTTTAGGGATTAGCTTCCTCACTGAC
42300 T A S AATGCAGTGAGGATTGGGAAAATGAGGAGAATCTAAAAAATGCACTTTTTAGGGATTAGCTTCCTCACTGAC
42300 IS [GA] TGAAGTAGACAGAACTGGCCCAGAAGTCCATCCAGATGAAAATGCAGTGAGCATTGGCAA[GA]ATGAGGAGAATCTAAAAAATGCACTTTTTAGGGATTAGCTTCCTCACTGACCTGGATTA
T
42302 I S CATCGTCGTCAAAACACACTTGGTTCAACTAAATCCCCT
42302 P T S CGCGCCGAGGAAGAGAAACACATGCATTGY
42302 P C S ATGACGTGGCAGACGAGAAAACACATGCATTGY
42302 T T S GTACCAATGCATGTGTTTCTCTTGGGGATTTAGTTGAACCAAGTGTGTTTTGACGACGATGGC
42302 T C S GTACCAATGCATGTGTTTCTCTCGGGGATTTAGTTGAACCAAGTGTGTTTGACGACGATGGC
42302 IS [TC] CAGCTACAACTCTGTGCATGTGGCTCAGGGTGTCATTTGTACCAATGCATGTGTTTCTCT[TC]GGGGATTTAGTTGAACCAAGTGTGTTTTGACGACGATGGCACCAGCTCCCCACAAGACAG
42312 I S GTCGGCGACGTCCAGCATCCCCA
42312 P A S CGCGCCGAGGTGATAGTAGTTGAGATACTTGGY
42312 P G S ATGACGTGGCAGACCGATAGTAGTTGAGATACTTGGY
42312 T A S ACCGCCAAGTATCTCAACTACTATCGAGGGGATGCTGGACGTCGCCGACGA
42312 T G S ACCGCCAAGTATCTCAACTACTATCGGGGGATGCTGGACGTCGCCGACGA
42312 IS [AG] ACACCTTCCTCCAGAGGAACCCAAGCACGAGCTGACCGCCAAGTATCTCAACTACTATC[AG]GGGGATGCTGGACGTCGCCGACGAGTCCCTCACGGACCTACAGGCCCAGCCCTACGAGGT
42313 I A TGCAAATCAGCTTCCACCAATAAAACGTAGAAATCTGTGAAACTCTATT
42313 P C A ATGACGTGGCAGACCCTTCGTGTCAGTTTTAACAY
42313 P A A CGCGCCGAGGACTTCGTGTCAGTTTTAACAY
42313 T C A ACAATGTTAAAACTGACACGAAGGATAGAGTTTCACAGATTTCTACGTTTTATTGGTGGAAGCTGATTTGCAAC
42313 T A A ACAATGTTAAAACTGACACGAAGTATAGAGTTTCACAGATTTCTACGTTTATTGGTGGAAGCTGATTTGCAAC
42313 IS [CA] TTTAGCAAATGTTGCAAATCAGCTTCCACCAATAAAACGTAGAAATCTGTGAAACTCTAT[CA]CTTCGTGTCAGTTTTAACATTGTGTTGATGGCAGCCATTTCAGGCAGAGGTAGCCAAGTT LOC81034
42315 I A TGCCTTCCGCCTTCAGAAATAAACCCCCCC
42315 P G A ATGACGTGGCAGACGGAAAGTGCAGGAAGAAGY
42315 P T A CGCGCCGAGGTGAAAGTGCAGGAAGAAGY
42315 T G A GAGGCTTCTTCCTGCACTTTCCGGGGGGTTTATTTCTGAAGGCGGAAGGCAGG
42315 T T A GAGGCTTCTTCCTGCACTTTCAGGGGGGTTTATTTCTGAAGGCGGAAGGCAGG
42315 IS [GT] CCACCAGCAAGAACACCTGGGGTTCGAGGCTGCCTTCCGCCTTCAGAAATAAACCCCCC[GT]GAAAGTGCAGGAAGAAGCCTCCACACTGAGGCAGACTCATGTGGAGTGGCCAAGAAGGCC
42316 I S TGGGCTTCTCTACTTAGAAGCTTCAGAAGCAGAGAATACTAACAGT
42316 P T S CGCGCCGAGGAAATTCAATTTGAGTTGAACAGTY
42316 P C S ATGACGTGGCAGACGAATTCAATTTGAGTTGAACAGTY
42316 T T S GCCTACTGTTCAACTCAAATTGAATTTCTGTTAGTATTCTCTGCTTCTGAAGCTTCTAAGTAGAGAAGCCCAAA
42316 T C S GCCTACTGTTCAACTCAAATTGAATTCCTGTTAGTATTCTCTGCTTCTGAAGCTTCTAAGTAGAGAAGCCCAAA
42316 IS [TC] CAGTGAGATTATTTGTGTAGTCTAGGTAGGGAGGGCCTACTGTTCAACTCAAATTGAATT[TC]CTGTTAGTATTCTCTGCTTCTGAAGCTTCTAAGTAGAGAAGCCCAAAGGAGAGCCTTGAG
42319 I A CTGGCAAGGGTGCCTTAGTGAGGACATCAA
42319 P T A CGCGCCGAGGTCTGCAACTCCCAGATY
42319 P C A ATGACGTGGCAGACCCTGCAACTCCCAGAT
42319 T T A ATCCATCTGGGAGTTGCAGATGATGTCCTCACTAAGGCACCCTTGCCAGGC
42319 T C A ATCCATCTGGGAGTTGCAGGTGATGTCCTCACTAAGGCACCCTTGCCAGGC
42319 IS [TC] GACAAGAGGACAGTCCTCAGCCTCCTGAAGCCTGCGAAGGGTGCCTTAGTGAGGACATCA[TC]CTGCAACTCCCAGATGGATAGACAGAGGCATGCAGAGAGGAGAACACCAACCATGAGTG
42320 I S CACTGGGTCCCTGCTAAGAAGGGGCATCT
42320 P C S ATGACGTGGCAGACGTGGTGCTTGCAGCY
42320 P T S CGCGCCGAGGATGGTGCTTGCAGCY

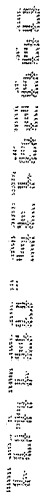


FIGURE 129F

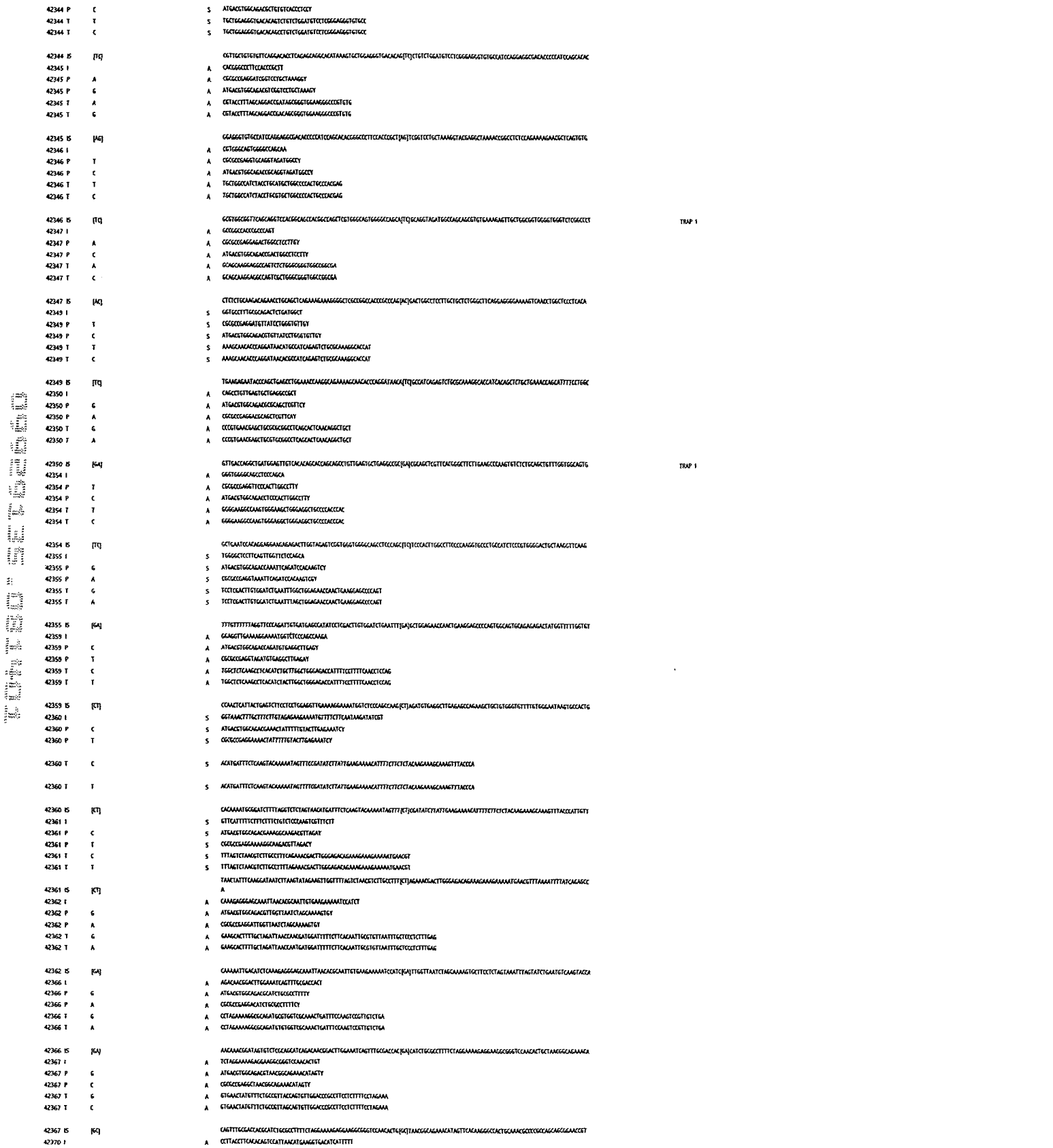
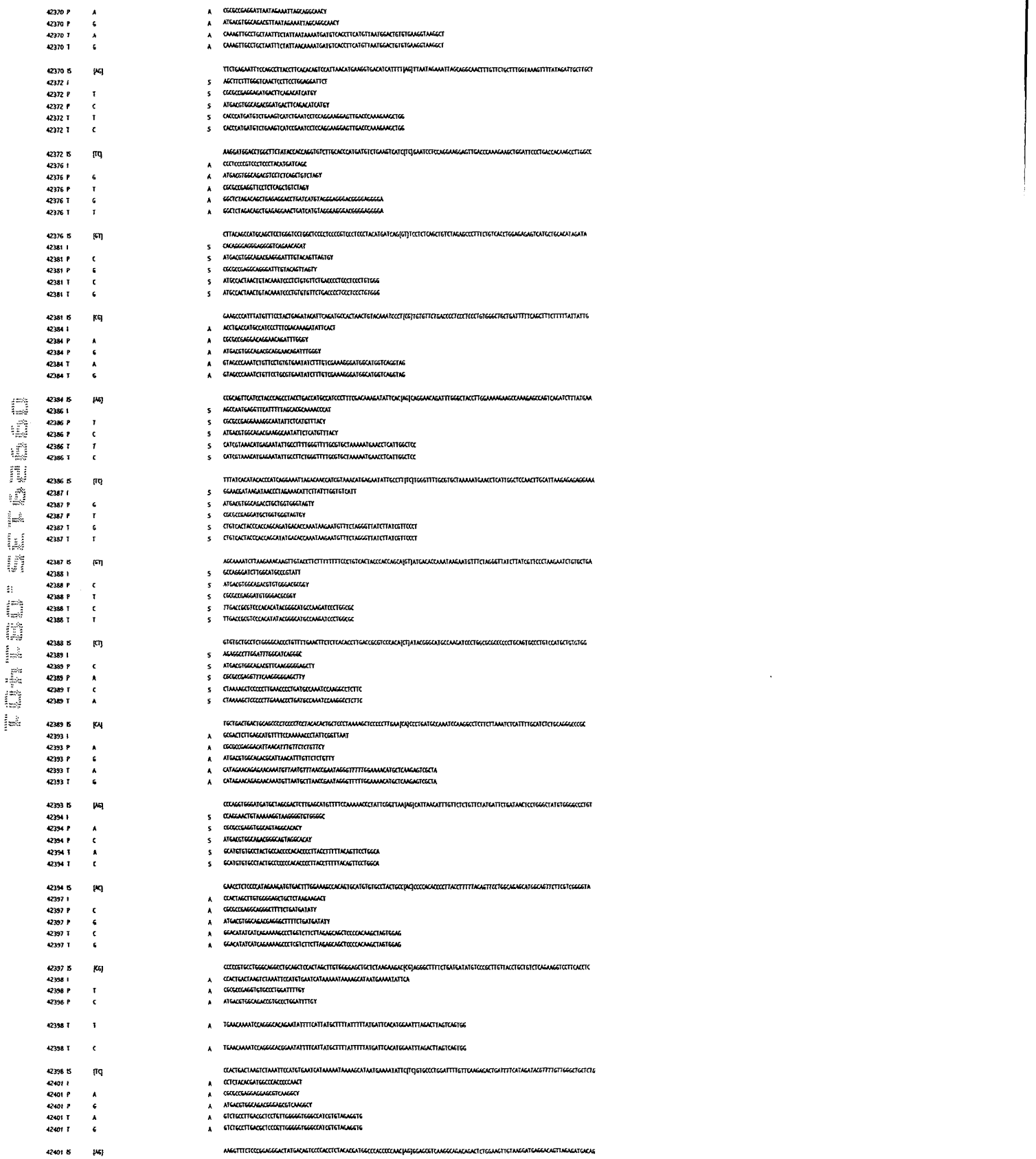


FIGURE 129F



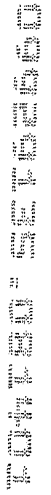


FIGURE 129F

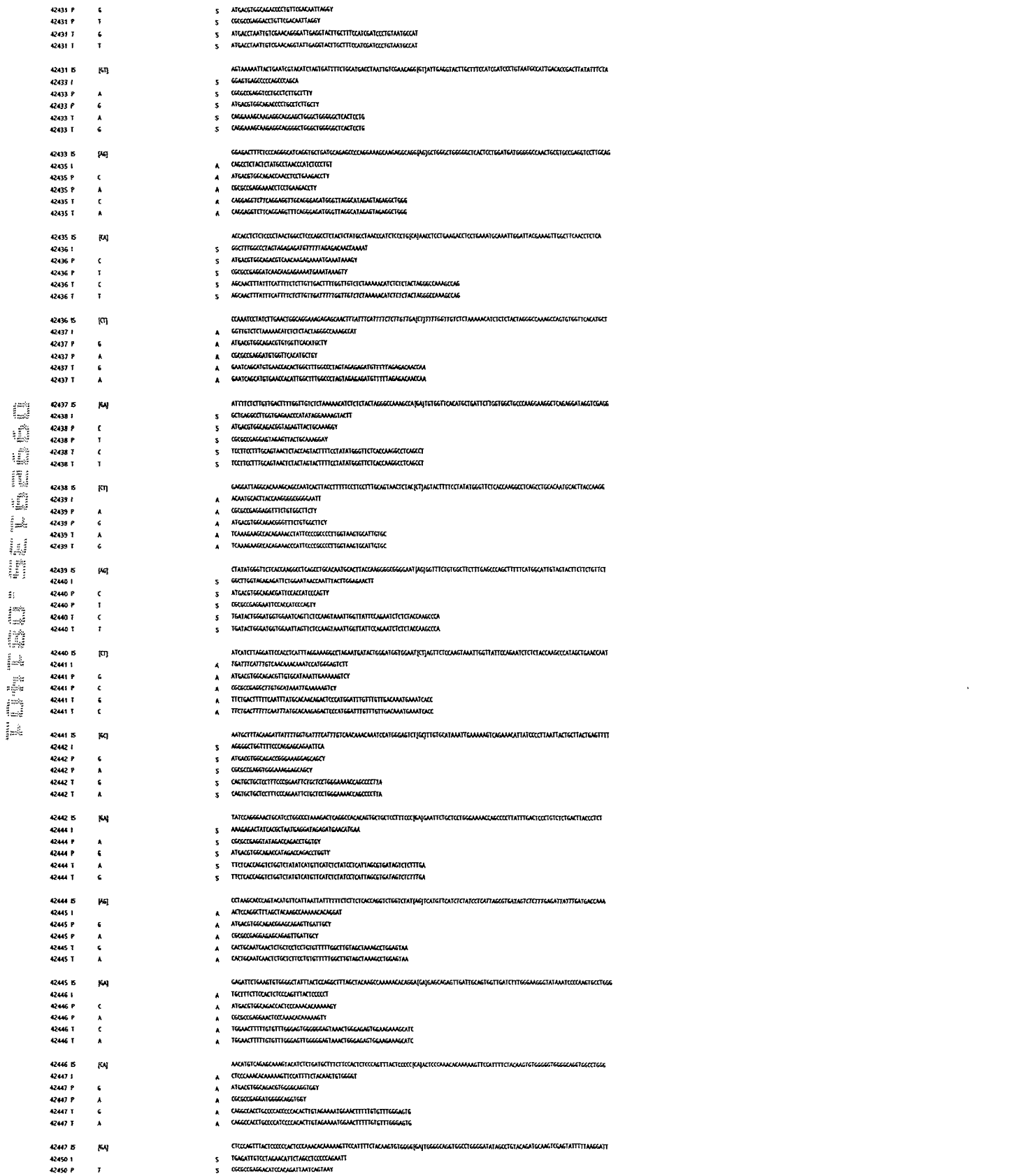

42431 P G S ATGACGTGGCAGACCCCTGTTCGACAATTAGGY
42431 P T S CGCGCCGAGGAACCTGTTCGACAATTAGGY
42431 T G S ATGACCTAATTGTCGAACAGGGATTGAGGTACTTGCTTTCCATCGATCCCTGTAATGCCAT
42431 T T S ATGACCTAATTGTCGAACAGGTATTGAGGTACTTGCTTTCCATCGATCCCTGTAATGCCAT
42431 IS [GT] AGTAAAAATTACTGAATCGTACATCTAGTGATTTTCTGCATGACCTAATTGTCGAACAGG[GT]ATTGAGGTACTTGCTTTCCATCGATCCCTGTAATGCCATTGACACCGACTTATATTTCTA
42433 I S GGAGTGAGCCCCCAGCCCAGCA
42433 P A S CGCGCCGAGGTCCTGCCTCTTGCTTY
42433 P G S ATGAGGTGGCAGACCCCTGCCTCTGCTY
42433 T A S CAGGAAAGCAAGAGGCAGGAGCTGGGCTGGGGGCTCACTCCTG
42433 T G S CAGGAAAGCAAGAGGCAGGGGCTGGGCTGGGGGCTCACTCCTG
42433 IS [AG] GGAGACTTTCTCCCAGGGCATCAGGTGCTGATGCAGAGCCCCAGGAAAGCAAGAGCAGG[AG]GCTGGGCTGGGGGCTCACTCCTGGATGATGGGGGCCAACTGCCTGCCAGGTCCTTGCAG
42435 I A CAGCCTCTACTCTATGCCTAACCCATCTCCCTGT
42435 P C A ATGACGTGGCAGACCAACCTCCTGAAGACCTY
42435 P A A CGCGCCGAGGAAACCTCCTGAAGACCTY
42435 T C A CAGGAGGTCTTCAGGAGGTTGCAGGGAGATGGGTTAGGCATAGAGTAGAGGCTGGG
42435 T A A CAGGAGGTCTTCAGGAGGTTTCAGGGAGATGGGTTAGGCATAGAGTAGAGGCTGGG
42435 IS [CA] ACCACCTCTCTCCCCTAACTGGCCTCCCAGCCTCTACTCTATGCCTAACCCATCTCCCTG[CA]AACCTCCTGAAGACCTCCTGAAATGCAAATTGGATTACGAAAGTTGGCTTCAACCTCTCA
42436 I S GGCTTTGGCCCTACTAGAGAGATGTTTTTAGAGACAACTAAAAT
42436 P C S ATGACGTGGCAGACGTCAACAAGAGAAAATGAAATAAAGY
42436 P T S CGCGCCGAGGATCAACAAGAGAAAATGAAATAAAGTY
42436 T C S AGCAACTTTATTTCATTTTCTCTTGTTGACTTTTGGTTGTCTCTAAAAACATCTCTCTACTAGGGCCAAAGCCAG
42436 T T S AGCAACTTTATTTCATTTTCTCTTGTTGATTTTTGGTTGTCTCTAAAAACATCTCTCTACTAGGGCCAAAGCCAG
42436 IS [CT] CCAAATCCTATCTTGAACTGGCAGGAAAGAGAGCAACTTTATTTCATTTTCTCTTGTTG[AG]TTTTGGTTGTCTCTAAAAACATCTCTCTACTAGGGCCAAAGCCAGTGTGGTTCACATGCT
42437 I A GGTTGTCTCTAAAAACATCTCTCTACTAGGGCCAAAGCCAT
42437 P G A ATGACGTGGCAGACGTGTGGTTCACATGCTY
42437 P A A CGCGCCGAGGATGTGGTTCACATGCTGY
42437 T G A GAATCAGCATGTGAACCACATTGGCTTTGGCCCTAGTAGAGAGATGTTTTTAGAGACAACCAA
42437 T A A GAATCAGCATGTGAACCACATTGGCTTTGGCCCTAGTAGAGAGATGTTTTTAGAGACAACCAA
42437 IS [GA] ATTTTCTCTTGTTGACTTTTGGTTGTCTCTAAAAACATCTCTCTACTAGGGCCAAAGCCA[GA]TGTGGTTCACATGCTGATTCTTGGTGGCTGCCCAAGGAAGGCTCAGAGGATAGGTCGAGG
42438 I S GCTGAGGCCTTGGTGAGAACCCATATAGGAAAAGTACTT
42438 P C S ATGACGTGGCAGACGGTAGAGTTACTGCAAAGGY
42438 P T S CGCGCCGAGGAGTAGAGTTACTGCAAAGGAY
42438 T C S TCCTTCCTTTGCAGTAACTCTACTAGTACTTTTCCTATATGGGTTCTCACCAAGGCCTCAGCCT
42438 T T S TCCTTCCTTTGCAGTAACTCTACTAGTACTTTTCCTATATGGGTTCTCACCAAGGCCTCAGCCT
42438 IS [CT] GAGGATTAGGCACAAAGCAGCCAATCACTTACCTTTTTCCTTCCTTTGCAGTAACTCTACT[CT]AGTACTTTTCCTATATGGGTTCTCACCAAGGCCTCAGCCTGCACAATGCACTTACCAAGG
42439 I A ACAATGCACTTACCAAGGGGCGGGGCAATT
42439 P A A CGCGCCGAGGAGGTTTCTGTGGCTTCY
42439 P G A ATGACGTGGCAGACGGGGTTTCTGTGGCTTCY
42439 T A A TCAAAGAAGCCACAGAAACCTATTCCCCGCCCCTTGGTAAGTGCATTGTGC
42439 T G A TCAAAGAAGCCACAGAAACCCATTCCCCGCCCCTTGGTAAGTGCATTGTGC
42439 IS [AG] CTATATGGGTTCTCACCAAGGCCTCAGCCTGCACAATGCACTTACCAAGGGGCGGGGCAAT[AG]GGTTTCTGTGGCTTCTTTGAGCCCAGCTTTTTCATGGCATTGTAGTACTTCTTCTGTTCT
42440 I S GGCTTGGTAGAGAGATTCTGGAATAACCAATTTACTTGGAAGAACTT
42440 P C S ATGACGTGGCAGACGATTCCACCATCCCAGTY
42440 P T S CGCGCCGAGGAATTCCACCATCCCAGTY
42440 T C S TGATACTGGGATGGTGGAATCAGTTCTCCAAGTAAATTGGTTATTCCAGAATCTCTCTACCAAGCCCA
42440 T T S TGATACTGGGATGGTGGAATTAGTTCTCCAAGTAAATTGGTTATTCCAGAATCTCTCTACCAAGCCCA
42440 IS [CT] ATCATCTTAGGATTCCACTCATTTAGGAAAGGCCTAGAATGATACTGGGATGGTGGAATT[CT]AGTTCTCCAAGTAAATTGGTTATTCCAGAATCTCTCTACCAAGCCCATAGCTGAACCAAT
42441 I A TGATTTCATTTGTCAACAAACAAATCCATGGGAGTCTT
42441 P G A ATGACGTGGCAGACGTTGTGCATAAATTGAAAAAGTCY
42441 P C A CGCGCCGAGGCCTTGTGCATAAATTGAAAAAGTCY
42441 T G A TTCTGACTTTTTCAATTTATGCACAACAGACTCCCATGGATTTGTTTGTTGACAAATGAAATCACC
42441 T C A TTCTGACTTTTTCAATTTATGCACAACAGACTCCCATGGATTTGTTTGTTGACAAATGAAATCACC
42441 IS [GC] AATGCTTTACAAGATTATTTTGGTGATTTCATTTGTCAACAAACAAATCCATGGGAGTCT[GC]TTGTTGTGCATAAATTGAAAAAGTCAGAAACATTATCCCTTAATTACTGCTTACTGAGTTTT
42442 I S AGGGGCTGGTTTTCCCCAGGAGCAGAATTCA
42442 P G S ATGACGTGGCAGACCGGGAAAGGAGCAGCY
42442 P A S CGCGCCGAGGTGGGAAAGGAGCAGCY
42442 T G S CAGTGCTGCTCCTTTCCCGGAATTCTGCTCCTGGGAAAACCAGCCCCTTA
42442 T A S CAGTGCTGCTCCTTTCCCAGAATTCTGCTCCTGGGAAAACCAGCCCCTTA
42442 IS [GA] TATCCAGGGAACTGCATCCTGGCCCTAAAGACTCAGGCCACACAGTGCTGCTCCTTTCCC[GA]GAATTCTGCTCCTGGGAAAACCAGCCCCTTATTTGACTCCCTGTCTCTGACTTACCCTCT
42444 I S AAAGAGACTATCAGCTAATGAGGATAGAGATGAAGATGAA
42444 P A S CGCGCCGAGGTATAGACCAGACCTGGTGY
42444 P G S ATGACGTGGCAGACCATAGACCAGACCTGGTY
42444 T A S TTCTCACCAGCTCTGGTCTATATCATGTTCATCTCTATCCTCATTAGCGTGATAGTCTCTTTGA
42444 T G S TTCTCACCAGGTCTGGTCTATGTCATGTTCATCTCTATCCTCATTAGCGTGATAGTCTCTTTGA
42444 IS [AG] CCTAAGCACCCAGTACATGTTCATTAATTATTTTTTCTCTTCTCACCAGGTCTGGTCTATT[AG]TCATGTTCATCTCTATCCTCATTAGCGTGATAGTCTCTTTGAGATTATTTTGATGACCAAA
42445 I A ACTCCAGGCTTTAGCTACAAGCCAAAAACACAGGAT
42445 P G A ATGACGTGGCAGACGGAAGCAGAGTTGATTGCY
42445 P A A CGCGCCGAGGAGAGCAGAGTTGATTGCY
42445 T G A CACTGCAATCAACTCTGCTCCTCCTGTGTTTTTGGCTTGTAGCTAAAGCCTGGAGTAA
42445 T A A CACTGCAATCAACTCTGCTCCTCCTGTGTTTTTGGCTTGTAGCTAAAGCCTGGAGTAA
42445 IS [GA] GAGATTCTGAAGTGTGGGGCTATTTACTCCAGGCTTTAGCTACAAGCCAAAAACACAGGA[GA]GAGCAGAGTTGATTGCAGTGGTTGATCTTTGGGAAGGGTATAAATCCCCAAGTGCCTGGG
42446 I A TGCTTTCTTCCACTCTCCCAGTTTACTCCCCCT
42446 P C A ATGACGTGGCAGACCACTCCCAAACACAAAAGY
42446 P A A CGCGCCGAGGAACTCCCAAACACAAAAGTY
42446 T C A TGGAACTTTTGTGTTTGGGAGTGGGGGGAGTAAACTGGGAGAGTGGAAGAAAGCATC
42446 T A A TGGAACTTTTGTGTTTGGGAGTTGGGGGAGTAAACTGGGAGAGTGGAAGAAAGCATC
42446 IS [CA] AACATGTCAGAGCAAAGTACATCTCTGATGCTTTCTTCCACTCTCCCAGTTTACTCCCCC[CA]ACTCCCAAACACAAAAAGTTCCATTTTCTACAAGTGTGGGGGTGGGGCAGTGGCCTGG
42447 I A CTCCCAAACACAAAAAGTTCCATTTTCTACAAGTGTGGGGT
42447 P G A ATGACGTGGCAGACGTGGGGCAGGTGGY
42447 P A A CGCGCCGAGGATGGGGCAGGTGGY
42447 T G A CAGGCCACCTCCCCCACCCCACACTTGTAGAAAATGGAACTTTTTGTGTTTGGGAGTG
42447 T A A CAGGCCACCTGCCCCATCCCCACACTTGTAGAAAATGGAACTTTTTGTGTTTGGGAGTG
42447 IS [GA] CTCCCAGTTTACTCCCCCCACTCCCAAACACAAAAAGTTCCATTTTCTACAAGTGTGGGGG[GA]TGGGGCAGGTGGCCTGGGGATATAGCCTGTACAGATGCAAGTGCAGTATTTTTAAGGATT
42450 I S TGAGATTGTCCTAGAACATTCTAGCCTCCCCCAGAATT
42450 P T S CGCGCCGAGGACATCCACAGATTAATCAGTAAY

FIGURE 129F

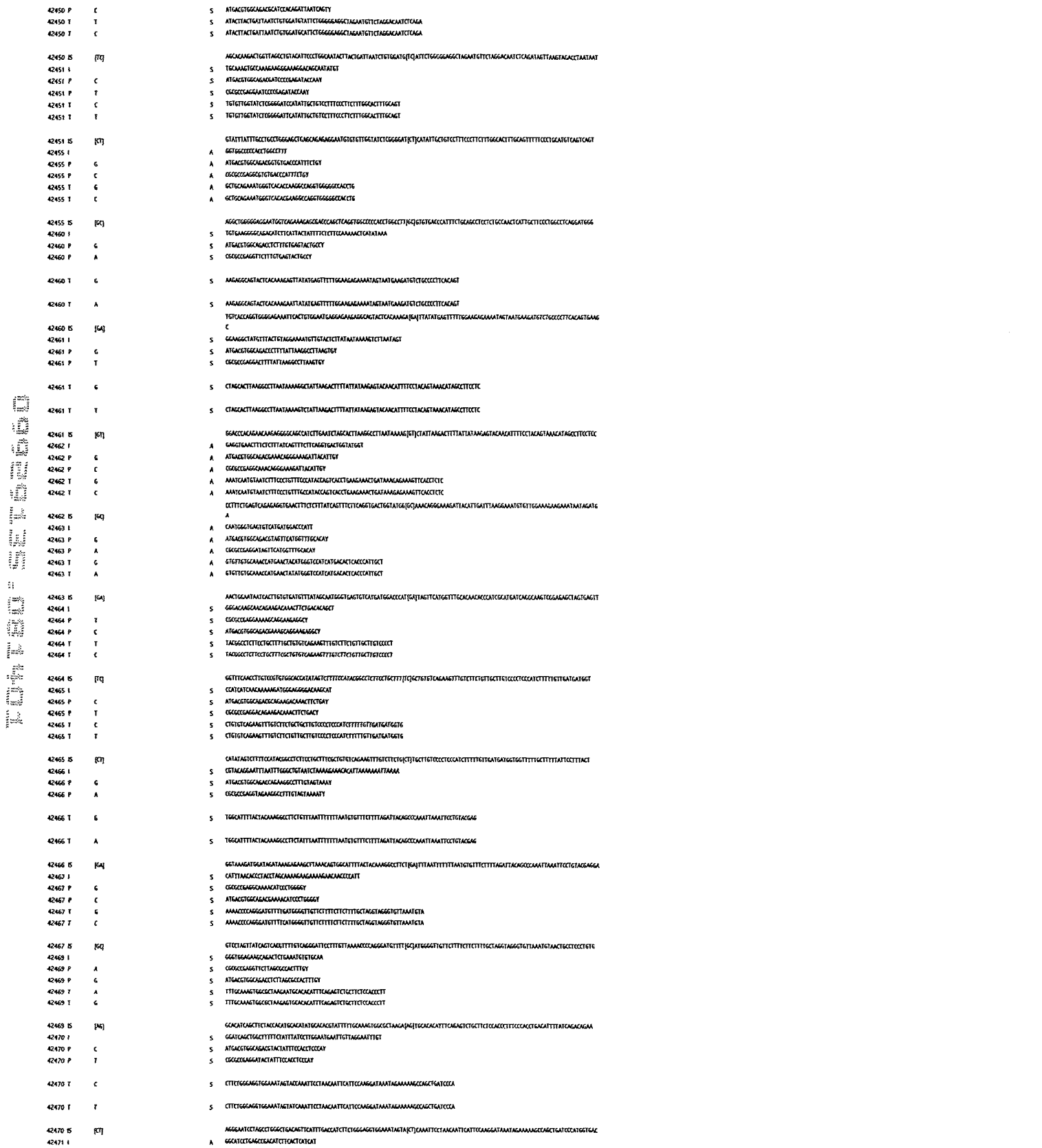

42450 P C S ATGACGTGGCAGACGCATCCACAGATTAATCAGTY
42450 T T S ATACTTACTGATTAATCTGTGGATGTATTCTGGGGGAAGGCTAGAATGTTCTAGGACAATCTCAGA
42450 T C S ATACTTACTGATTAATCTGTGGATGCATTCTGGGGGAAGGCTAGAATGTTCTAGGACAATCTCAGA
42450 IS [TC] AGCACAAGACTGGTTAGCCTGTACATTCCCTGGCAATACTTACTGATTAATCTGTGGATG[TC]ATTCTGGGGGAGGCTAGAATGTTCTAGGACAATCTCAGATAGTTAAGTAGACCTAATAAT
42451 I S TGCAAAGTGCCAAAGAAGGGAAAGGAAGCAATATGT
42451 P C S ATGACGTGGCAGACGATCCCCGAGATACCAAY
42451 P T S CGCGCCGAGGAATCCCCGAGATACCAAY
42451 T C S TGTGTTGGTATCTCGGGGATCCATATTGCTGTCCTTTCCCTTCTTTGGCACTTTGCAGT
42451 T T S TGTGTTGGTATCTCGGGGATTCATATTGCTGTCTTTCCCTTCTTTGGCACTTTGCAGT
42451 IS [CT] GTATTTATTTGCCTGCCTGGGAGCTCAGCAGAGAGGAATGTGTGTTGGTATCTCGGGGAT[KT]CATATTGCTGTCCTTTCCCTTCTTTGGCACTTTGCAGTTTTTCCCTGCATGTCAGTCAGT
42455 I A GGTGGCCCCCACCTGGCCTTT
42455 P G A ATGACGTGGCAGACGGTGTGACCCATTTCTGY
42455 P C A CGCGCCCAGGCGTGTGACCCATTTCTGY
42455 T G A GCTGCAGAAATGGGTCACACCAAGGCCAGGTGGGGGCCACCTG
42455 T C A GCTGCAGAAATGGGTCACACCAAGGCCAGGTGGGGGCCACCTG
42455 IS [GC] AGGCTGGGGGAGGAATGGTCAGAAAGAGCGCAACCCAGCTCAGGTGGCCCCCACCTGGCCT[GC]GTGTGACCCATTTCTGCAGCCTCCTCTGCCAACTCATTGCTTCCCTGGCCTCAGGATGGG
42460 I S TGTGAAGGGGCAGACATCTTCATTACTATTTCTCTTCCAAAAACTCATATAAA
42460 P G S ATGACGTGGCAGACCTCTTGTGAGTACTGCCY
42460 P A S CGCGCCGAGGTCTTTGTGAGTACTGCCY
42460 T G S AAGAGGCAGTACTCACAAAGAGTTATATGAGTTTTTGGAAGACAAAATAGTAATGAAGATGTCTGCCCCTTCACAGT
42460 T A S AAGAGCCAGTACTCACAAAGAATTATATGAGTTTTTGGAAGACAAAATAGTAATGAAGATGTCTGCCCCTTCACAGT
42460 IS [GA] TGTCACCAGGTGGGGAGAAATTCACTGTGGAATGAGGAGAAGAGGCAGTACTCACAAAGA[GA]TTATATGAGTTTTTGGAAGACAAAATAGTAATGAAGATGTCTGCCCCTTCACAGTGAAG C
42461 I S GGAAGGCTATGTTTACTGTAGGAAAATGTTGTACTCTTATAATAAAAGTCTTAATAGT
42461 P G S ATGACGTGGCAGACCCTTTTATTAAGGCCTTAAGTGY
42461 P T S CGCGCCGAGGACTTTTATTAAGGCCTTAAGTGY
42461 T G S CTAGCACTTAAGGCCTTAATAAAAGGCTATTAAGACTTTTATTATAAGAGTACAACATTTTCCTACAGTAAACATAGCCTTCCTC
42461 T T S CTAGCACTTAAGGCCTTAATAAAAGTCTATTAAGACTTTTATTATAAGAGTACAACATTTTCCTACAGTAAACATAGCCTTCCTC
42461 IS [GT] GGACCCACAGAACAAGAGGGCAGCCATCTTGAATCTAGCACTTAAGGCCTTAATAAAAG[GT]CTATTAAGACTTTTATTATAAGAGTACAACATTTTCCTACAGTAAACATAGCCTTCCTC
42462 I A GAGGTGAACTTTCTCTTTATCAGTTTCTTCAGGTGACTGGTATGGT
42462 P G A ATGACGTGGCAGACGAAACAGGGAAAGATTACATTGY
42462 P C A CGCGCCGAGGCAAACAGGGAAAGATTACATTGY
42462 T G A AAATCAATGTAATCTTCCCTGTTTCCCATACCAGTCACCTGAAGAAACTGATAAAGAGAAAGTTCACCTCTC
42462 T C A AAATCAATGTAATCTTCCCTGTTTGCCATACCAGTCACCTGAAGAAACTGATAAAGAGAAAGTTCACCTCTC
42462 IS [GC] CCTTTCTGAGTCAGAGAGGTGAACTTTCTCTTTATCAGTTTCTTCAGGTGACTGGTATGG[GC]AAACAGGGAAGATTACATTGATTTAAGGAAATGTGTTGGAAAGAAGAAATAATAGATG A
42463 I A CAATGGGTGAGTGTCATGATGGACCCATT
42463 P G A ATGACGTGGCAGACGTAGTTCATGGTTGGCACAY
42463 P A A CGCGCCGAGGATAGTTCATGGTTTGCACAY
42463 T G A GTGTTGTGCAAACCATGAACTATATGGGTCCATCATGACACTCACCCATTGCT
42463 T A A GTGTTGTGCAAACCATGAACTATATGGGTCCATCATGACACTCACCCATTGCT
42463 IS [GA] AACTGGAATAATCACTTGTGTGATGTTTATAGCAATGGGTGAGTGTCATGATGGACCCAT[GA]TAGTTCATGGTTTGCACAACACCCATCGCATGATCAGGCAAGTCGGAGAGCTAGTGAGTT
42464 I S GGGACAAGCAACAGAAGACAAACTTCTGACACAGCT
42464 P T S CGCGCCGAGGAAAAGCAGCAAGAGGCY
42464 P C S ATGACGTGGCAGACGAAAGCAGGAAGAGGCY
42464 T T S TACGGCCTCTTCCTGCTTTGCTGTGTCAGAAGTTTGTCTTCTGTTGCTTGTCCCCT
42464 T C S TACGGCCTCTTCCTGCTTTCGCTGTGTCAGAAGTTTGTCTTCTGTTGCTTGTCCCCT
42464 IS [TC] GGTTTCAACCTTGTCCGTGTGGCACCATATAGTCTTTTCCATACGGCCTCTTCTGCTTT[TC]GCTGTGTCAGAAGTTTGTCTTCTGTTGCTTGTCCCCTCCCATCTTTTGTTGATGATGGT
42465 I S CCATCATCAACAAAAAGATGGCAGGGGAGGACAAGCAT
42465 P C S ATGACGTGGCAGACGCAGAAGACAAACTTCTGAY
42465 P T S CGCGCCGAGGACAGAAGACAAACTTCTGACT
42465 T C S CTGTGTCAGAAGTTTGTCTTCTGCTGTTGTCCCCTCCCATCTTTTTGTTGATGATGGTG
42465 T T S CTGTGTCAGAAGTTTGTCTTCTGTTGCTTGTCCCCTCCCATCTTTTTGTTGATGATGGTG
42465 IS [CT] CATATAGTCTTTTCCATACGGCCTCTTCCTGCTTTCGCTGTGTCAGAAGTTTGTCTTCTG[CT]TGCTTGTCCCCTCCCATCTTTTTGTTGATGATGGTGGTTTTTGCTTTTTATTCCTTTACT
42466 I S CGTACAGGAATTTAATTTGGGCTGTAATCTAAAAGAAACACATTAAAAAAATTAAAA
42466 P G S ATGACGTGGCAGACCAGAAGGCCTTTGTAGTAAAY
42466 P A S CGCGCCGAGGTAGAAGGCCTTTGTAGTAAAATY
42466 T G S TGGCATTTTACTACAAAGGCCTCTGTTTAATTTTTTAATGTGTTTCTTTTAGATTACAGCCCAAATTAAATTCCTGTACGAG
42466 T A S TGGCATTTTACTACAAAGGCCTCTATTTAATTTTTTAATGTGTTTCTTTTAGATTACAGCCCAAATTAAATTCCTGTACGAG
42466 IS [GA] GGTAAAGATGGATAGATAAAGAGAAGCTTAAACAGTGGCATTTTACTACAAAGGCCTCT[GA]TTTAATTTTTTAATGTGTTTCTTTTAGATTACAGCCCAAATTAAATTCCTGTACGAGGA
42467 I S CATTTAACACCCTACCTAGCAAAAGAAGAAAAGAACACACCCCATT
42467 P G S CGCGCCGAGGCAAAACATCCCTGGGGY
42467 P C S ATGACGTGGCAGACGAAAACATCCCTGGGGY
42467 T G S AAAACCCCAGGGATGTTTTGATGGGGTTGTTCTTTTCTCTTTTGCTAGGTAGGGTGTTAAATGTA
42467 T C S AAAACCCCAGGGATGTTTTCATGGGGTTGTTCTTTTCTCTTTTGCTAGGTAGGGTGTTAAATGTA
42467 IS [GC] GTCCTAGTTATCAGTCAGCTTTTGTCAGGGATTCCTTTGTTAAAACCCAGGGATGTTTT[GC]ATGGGGTTGTTCTTTTCTTTTGCTAGGTAGGGTGTTAAATGTAACTGCCTCCCTGTG
42469 I S GGGTGGAGAAGCAGACTCTGAAATGTGTGCAA
42469 P A S CGCGCCGAGGTYCTAGCGCCACTTTGY
42469 P G S ATGACGTGGCAGACCTCTTAGCGCCACTTTGY
42469 T A S TTTGCAAAGTGGCGCTAAGAATGCAACACATTTCAGAGTCTGCTTCTCCACCCTT
42469 T G S TTTGCAAAGTGGCGCTAAGAATGCAACACATTTCAGAGTCTGCTTCTCCACCCTT
42469 IS [AG] GCACATCAGCTTCTACCACATGCACATATGCACACGTATTTTTGCAAAGTGGCGCTAAGA[AG]TGCACACATTTCAGAGTCTGCTTCTCCACCCTTTCCCCACCTGACATTTTATCAGACAGAA
42470 I S GGATCAGCTGGCTTTTTCTATTTATTCCTTGGAATGAATTGTTAGGAATTTGT
42470 P C S ATGACGTGGCAGACGTACTATTTCCCACCTCCCAY
42470 P T S CGCGCCGAGGATACTATTTCCCACCTCCCAY
42470 T C S CTTCTGGGAGGTGGAAATAGTACTACAATTCCTAACAATTCATTCCAAGGATAAATAGAAAAAGCCAGCTGATCCCA
42470 T T S CTTCTGGGAGGTGGAAATAGTATCAAATTCCTAACAATTCATTCCAAGGATAAATAGAAAAAGCCAGCTGATCCCA
42470 IS [CT] AGGGAATCCTAGCCTGGGCTGACAGTTCATTTGACCATCTTCTGGGAGGTGGAAATAGTA[CT]CAAATTCCTAACAATTCATTCCAAGGATAAATAGAAAAAGCCAGCTGATCCCATGGTGAC
42471 I A GGCATCCTGAGCCGACATCTTCACTCATCAT
42471 P A A CGCGCCGAGGACGTCATTCTTGTCTCTCTY

FIGURE 129F

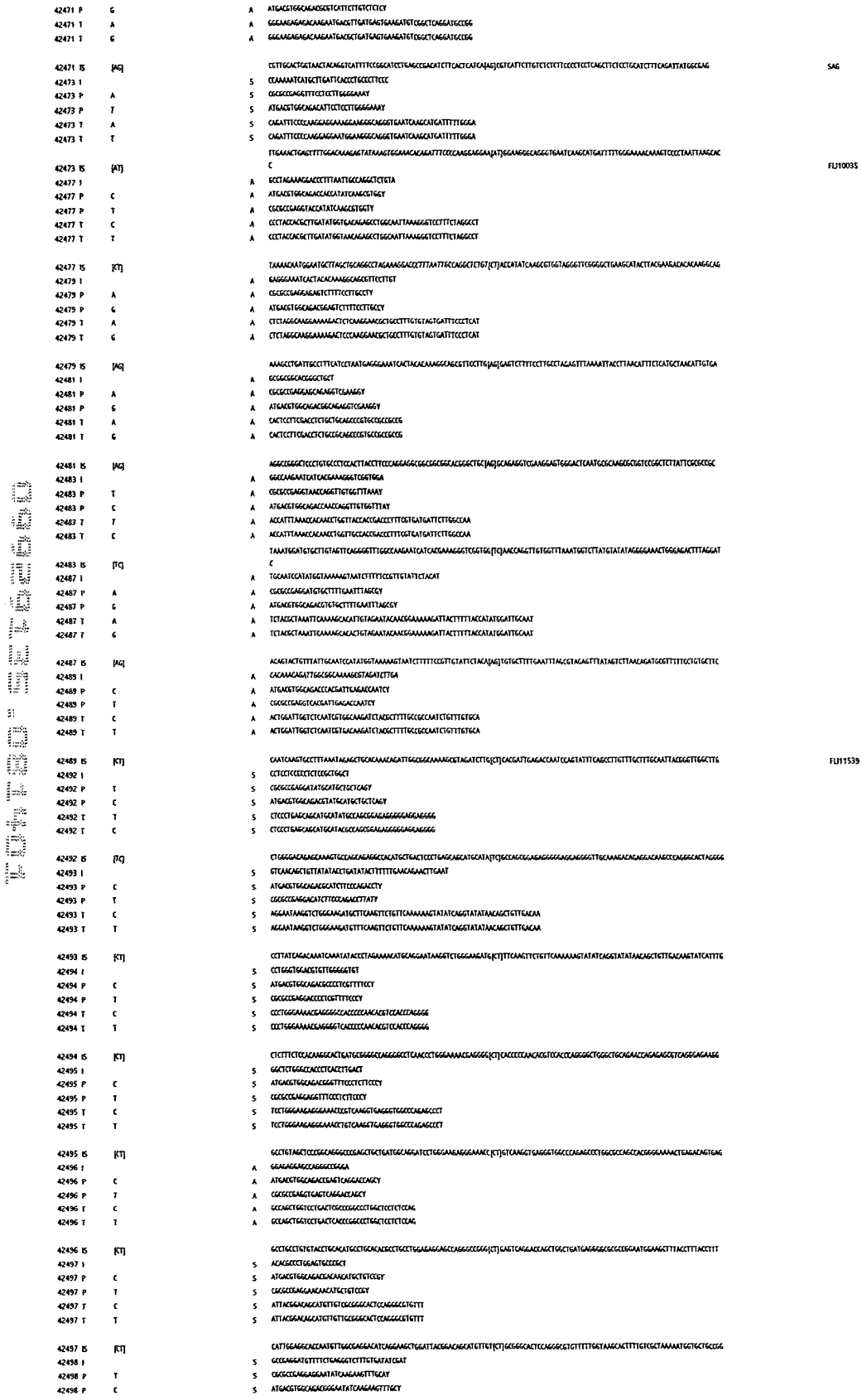

42471 P G A ATGACGTGGCAGAGGCGTCATTCTTGTCTCTCY
42471 T A A GGCAAGAGAGACAAGAATGACGTTGATGAGTGAAGATGTCGGCTCAGGATGCCGG
42471 T G A GGCAAGAGAGACAAGAATGACGCTGATGAGTGAAGATGTCGGCTCAGGATGCCGG
42471 IS [AG] CGTTGCACTGGTAACTACAGGTCATTTTCCGGCATCCTGAGCCGACATCTTCACTCATCA[AG]GGTCATTCTTGTCTCTCTTCCCCTCCTCAGCTTCCTCCTGCATCTTCAGATTATGGCGAG SAG
42473 I S CCAAAAATCATGCTTGATTCACCCTGCCCTTCCC
42473 P A S CGCGCCGAGGTTTCCTCCTTGGGGAAAY
42473 P T S ATGACGTGGCAGACATTCCTCCTTGGGGAAAY
42473 T A S CAGATTTCCCCAAGGAGGAAAGGAAGGGCAGGGTGAATCAAGCATGATTTTTGGGA
42473 T T S CAGATTTCCCCAAGGAGGAATGGAAGGGCAGGGTGAATCAAGCATGATTTTTGGGA
42473 IS [AT] TTGAAACTGAGTTTTGGACAAAGAGTATAAAGTGGAAACACAGATTTCCCCAAGGAGGAA[AT]GGGAAGGCAGGGTGAATCAAGCATGATTTTTGGGAAAACAAAGTCCCCTAATTAAGCAC C FLJ10035
42477 I A GCCTAGAAAGGACCCTTTAATTGCCAGGCTCTGTA
42477 P C A ATGACGTGGCAGACCACCATATCAAGCGTGGT
42477 P T A CGCGCCGAGGTACCATATCAAGCGTGGTY
42477 T C A CCCTACCACGCTTGATATGGTGACAGAGCCTGGCAATTAAAGGGTCCTTTCTAGGCCT
42477 T T A CCCTACCACGCTTGATATGGTAACAGAGCCTGGCAATTAAAGGGTCCTTTCTAGGCCT
42477 IS [CT] TAAAACAATGGAATGCTTAGCTGCAGGCCTAGAAAGGACCCTTTAATTGCCAGGCCTCTGT[CT]ACCATATCAAGCGTGGTAGGGTTCGGGGCTGAAGCATACTTACGAAGACACACAAGGCAG
42479 I A GAGGGAAATCACTACACAAAGGCAGCGTTCCTTGT
42479 P A A CGCGCCGAGGAGCAGAGGTCGAAGGY
42479 P G A ATGACGTGGCAGACGGCAGAGGTCGAAGGY
42479 T A A CTCTAGGCAAGGAAAAGACTCTCAAGGAACGCTGCCTTTGTGTAGTGATTCCCTCAT
42479 T G A CTCTAGGCAAGGAAAAGACTCCCAAGGAACGCTGCCTTTGTGTAGTGATTCCCTCAT
42479 IS [AG] AAAGCCTGATTGCCTTCATCTAATGAGGGAAATCACTACACAAAGGCAGCGTTCCTTG[AG]GAGTCTTTCCTTGCCTAGAGTTTAAAATTACCTTAACATTTCTCATGCTAACATTGTGA
42481 I A GCGGCGGCACGGGCTGCT
42481 P A A CGCGCCGAGGAGCAGAGGTCGAAGGY
42481 P G A ATGACGTGGCAGACGGCAGAGGTCGAAGGY
42481 T A A CACTCCTTCGACCTCTGCTGCAGCCCGTGCCGCCGCCG
42481 T G A CACTCCTTCGACCTCTGCCGCAGCCCGTGCCGCCGCCG
42481 IS [AG] AGGCCGGGCTCCCTGTGCCCTCCACTTACCTTCCCAGGAGAGCGGCGGCGGCACGGGCTGC[AG]GCAGAGGTCGAAGGAGTGGGACTCAATGCGCAAGGGCGTCCCGCTCTTATTCGCCCGC
42483 I A GGCCAAGAATCATCACGAAAGGCTCGGTGGA
42483 P T A CGCGCCGAGGTAACCAGGTTGTGGTTTAAAY
42483 P C A ATGACGTGGCAGACCAACCAGGTTGTGGTTTAY
42483 T T A ACCATTTAAACCACAACCTGGTTACCACCGACCCTTTCGTGATGATTCTTGGCCAA
42483 T C A ACCATTTAAACCACAACCTGGTTGCCACCGACCCTTTCGTGATGATTCTTGGCCAA
42483 IS [TC] TAAATGGATGTGCTTGTAGTTCAGGGGTTTGGCCAAGAATCATCACGAAAGGGTCCGTGG[TC]AACCAGGTTGTGGTTTAAATGGTCTTATGTATATAGGGGAAACTGGGAGACTTTAGGAT C
42487 I A TGCAATCCATATGGTAAAAAGTAATCTTTTTCCGTTGTATTCTACAT
42487 P A A CGCGCCGAGGATGTGCTTTTGAATTTAGCGY
42487 P G A ATGACGTGGCAGACGTGTGCTTTTGAATTTAGCGY
42487 T A A TCTACGCTAAATTCAAAAGCACATTGTAGAATACAACGGAAAAAGATTACTTTTTACCATATGGATTGCAAT
42487 T G A TCTACGCTAAATTCAAAAGCACACTGTAGAATACAACGGAAAAAGATTACTTTTTACCATATGGATTGCAAT
42487 IS [AG] ACAGTACTGTTTATTGCAATCCATATGGTAAAAAGTAATCTTTTTCCGTTGTATTCTACA[AG]TGTGCTTTTGAATTTAGCGTAGAGTTTATAGTCTTAACAGATGGGTTTTTCCTGTGCTTC
42489 I A CACAAACAGATTGGCGGCAAAAGCGTAGATCTTGA
42489 P C A ATGACGTGGCAGACCCACGATTCAGACCAATCY
42489 P T A CGCGCCGAGGTCACGATTGACACCAATCY
42489 T C A ACTGAATTGGTCTCAATCGTGGCAAGATCTACGCTTTTGCCGCCAATCTGTTTGTGCA
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42489 IS [CT] CAATCAAGTGCCTTTAAATAGAGCTGCACAAACAGATTGGCGGCAAAAGCGTAGATCTTG[CT]CACGATTGAGACCAATCCAGTATTTCAGCCTTGTTTGCTTGCAATTACGGGTTGGCTTG FLJ11539
42492 I S CCTCCTCCCCCTCTCCGCTGGCT
42492 P T S CGCGCCGAGGATATGCATGCTGCTCAGY
42492 P C S ATGACGTGGCAGACGTATGCATGCTGCTCAGY
42492 T T S CTCCCTGAGCAGCATGCATACGCCAGCGAGAGGGGCAGGAGGGG
42492 T C S CTCCCTGAGCAGCATGCATACGCCAGCGAGAGGGGCAGGAGGGG
42492 IS [TC] CTGGGGACAGAGCAAAGTGCCAGCAGAGAGCACATGCTGACTCCCTGAGCAGCATGCATA[TC]GCCAGCGCAGAGAGGGGCAGGAGGGGTTGCAAAGACAGAGGACAAGCCCAGGGCACTAGGGG
42493 I S GTCAACAGCTGTTATATACCTGATATACTTTTTTGAACAGAACTTGAAT
42493 P C S ATGACGTGGCAGACGCATCTTCCCAGACCTY
42493 P T S CGCGCCGAGCACATCTTCCCAGACCTTATY
42493 T C S AGGAATAAGGTCTGGGAAGATGCTTCAAGTTCTGTTCAAAAAGTATATCAGGTATATAAACAGCTGTTGACAA
42493 T T S AGGAATAAGGTCTGGGAAGATGTTTCAAGTTCTGTTCAAAAAGTATATCAGGTATATAAACAGCTGTTGACAA
42493 IS [CT] CCTTATCAGACAAATCAAATATACCCTAGAAAACATGCAGGAATAAGGTCTGGGAAGATG[CT]TTCAAGTTCTGTTCAAAAAGTATATCAGGTATATAAACAGCTGTTGACAAGTATCATTTG
42494 I S CCTGGGTGGAGCTGTTGGGGGTGT
42494 P C S ATGACGTGGCAGACGCCCTCGTTTTCCY
42494 P T S CGCGCCGAGCACCCCTCGTTTTCCCY
42494 T C S CCCTGGCAAAACCAGGGGCCACCCCCAACACGTCCACCCAGGGG
42494 T T S CCCTGGGAAAACCAGGGGCTCACCCCCAACACGTCCACCCAGGGG
42494 IS [CT] CTCTTTCTCCACAAGGCACTGATGCGGGGCCAGGGGCCTCAACCCTGGGAAAACCAGGGG[CT]CACCCCCAACACGTCCACCCAGGGGCTGGGCTGCAGAACCAGAGAGCGTCAGGGAGAAGG
42495 I S GGCTCTGGGCCACCCTCACCTTGACT
42495 P C S ATGACGTGGCAGACGGGTTCCCTCTTCCCY
42495 P T S CGCGCCGAGCAGGTTCCCTCTTCCCY
42495 T C S TCCTGGGAAGAGGGAAACCCGTCAAGGTGAGGGTGGCCCAGAGCCCT
42495 T T S TCCTGGGAAGAGGGAAACCTGTCAAGGTGAGGGTGGCCCAGAGCCCT
42495 IS [CT] GCCTGTAGCTCCCGGCCAGGGCCCGAGCTGCTGATGGCAGGATCCTGGGGAAGAGGGAAACC[CT]GTCAAGGTGAGGGTGGCCCAGAGCCCTGGCGCCAGCCACGGGGAAAACTGAGACAGTGAG
42496 I A GGAGAGAGCCAGGGCCGGGA
42496 P C A ATGACGTGGCAGACCGAGTCAGGACCAGCY
42496 P T A CGCGCCGAGGTGAGTCAGGACCAGCY
42496 T C A GCCAGCTGGTCCTGACTGGCCGGGCCCTGGCTCCTCTCCAG
42496 T T A GCCAGCTGGTCCTGACTCACCCGGCCCTGGCTCCTCTCCAG
42496 IS [CT] GCCTGCCTGTGTACCTGCACATGCCTGCACAGCCTGCCTGGAGAGGAGCCAGGGCCCGGG[CT]GAGTCAGGACCAGCTGGCTGATGAGGGGCGCGCCGGAATGGAAGCTTACCTTACCTTT
42497 I S ACAGCCCTGGAGTGCCCGCT
42497 P C S ATGACGTGGCAGACGACAACATGCTGTCCGY
42497 P T S CGCGCCGAGCAACAACATGCTGTCCGY
42497 T C S ATTACGGACAGCATGTTGTCGCGGGCACTCCAGGGCGTGTTT
42497 T T S ATTACGGACAGCATGTTGTCGCGGGCACTCCAGGGCGTGTTT
42497 IS [CT] CATTGGAGGCACCAATGTTGGCGAGGACATCAGGAAGCTGGATTACGGACAGCATGTTGT[CT]GCGGCCACTCCAGGGCGTGTTTTTGGTAAGCACTTTTGTCGCTAAAATGGTGCTGCCGG
42498 I S GCCCAGGATGTTTTCTGAGGGTCTTTGTGATATCGAT
42498 P T S CGCGCCGAGGAGGAATATCAAGAAGTTTGCAY
42498 P C S ATGACGTGGCAGACGGGAATATCAAGAAGTTTGCY

FIGURE 129F

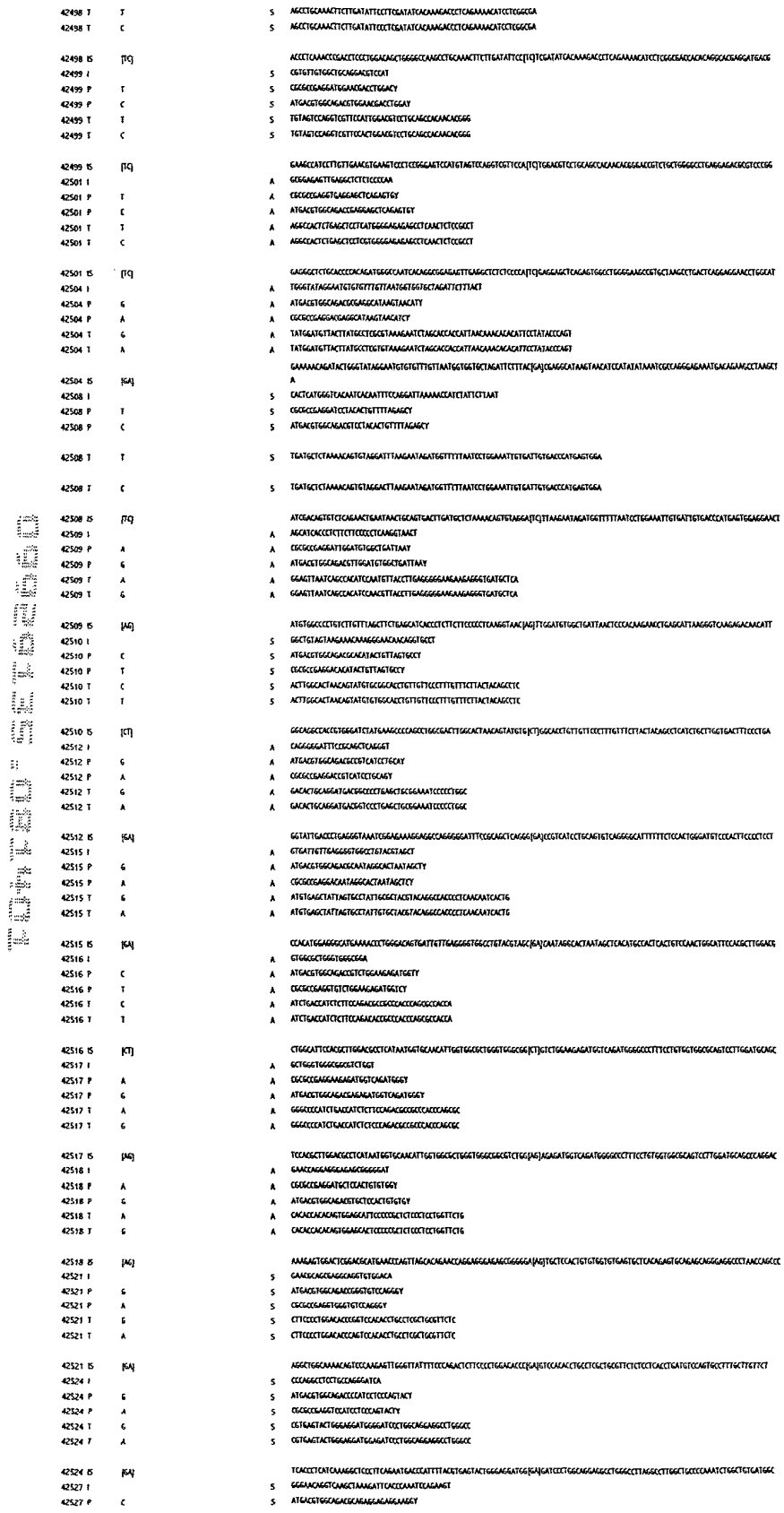
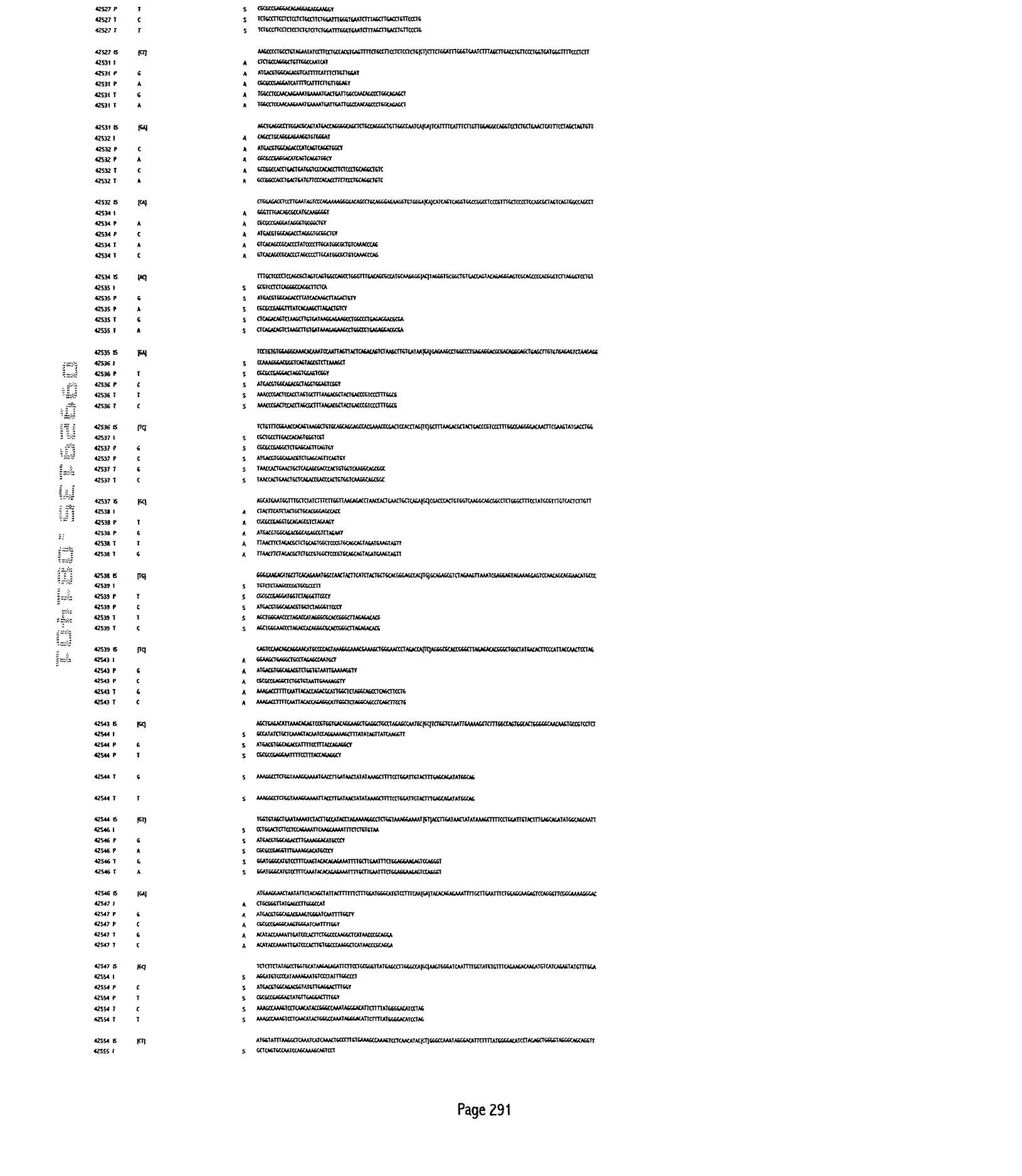


FIGURE 129F



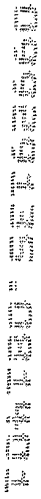


FIGURE 129F

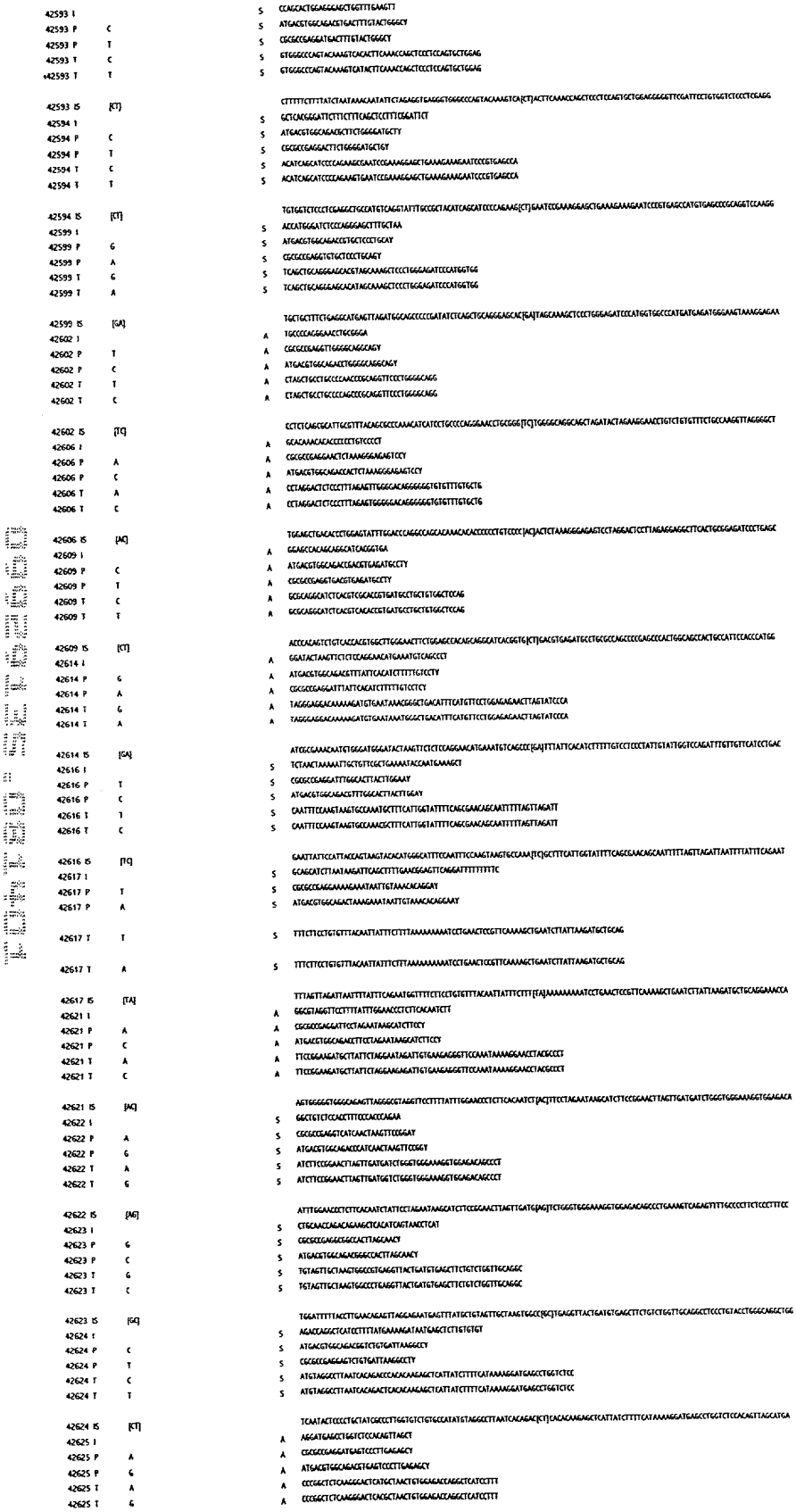
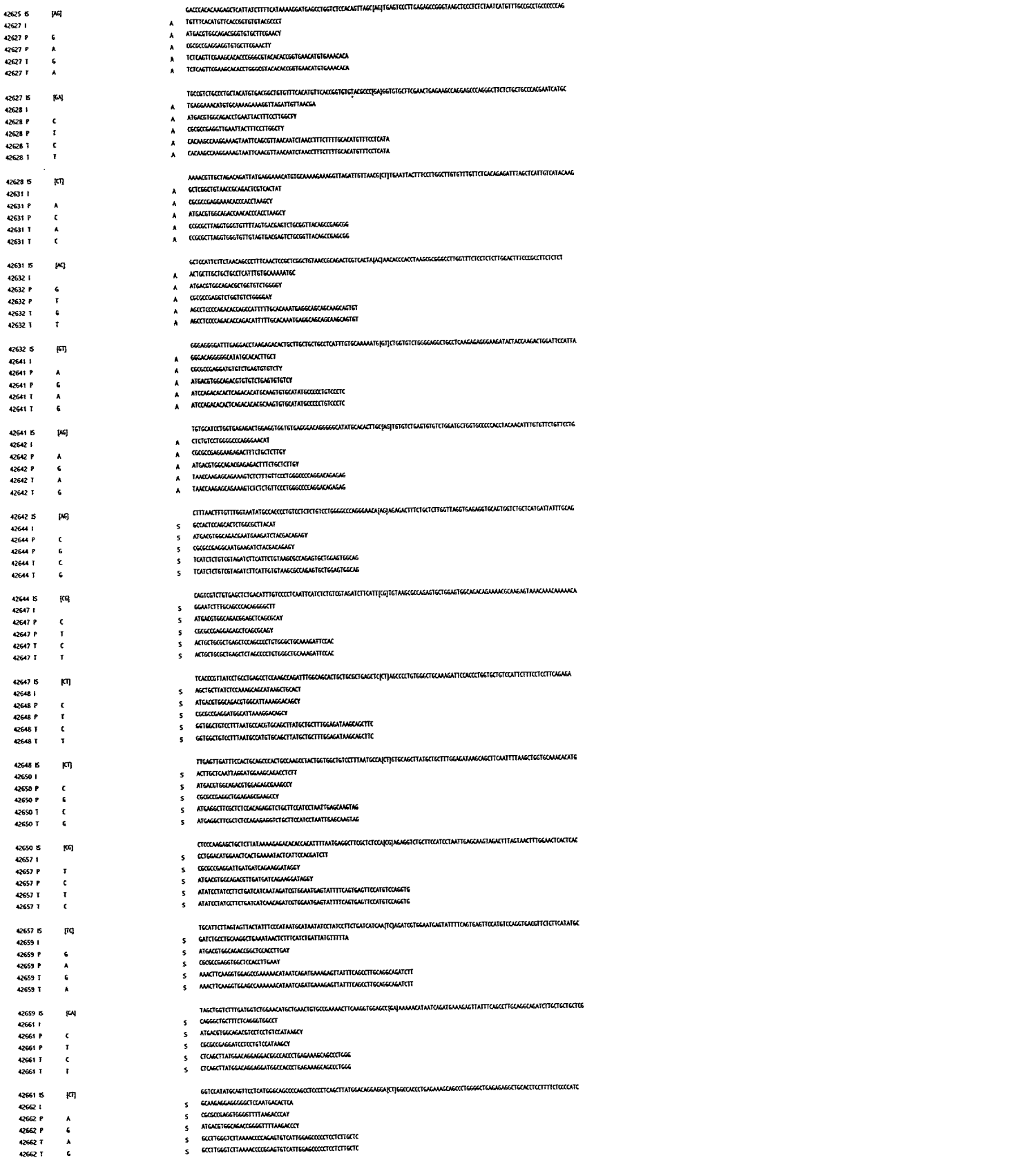
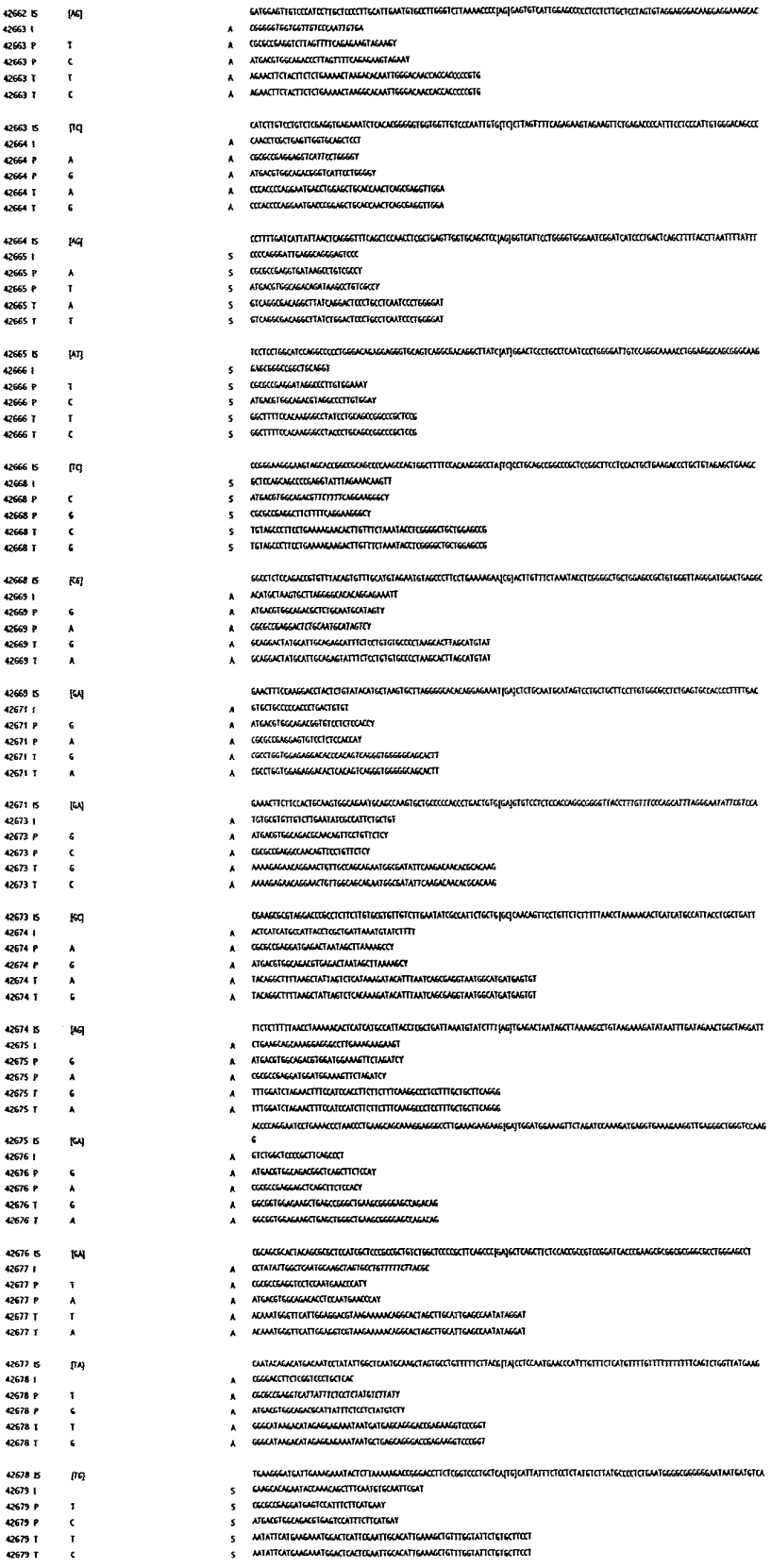


FIGURE 129F



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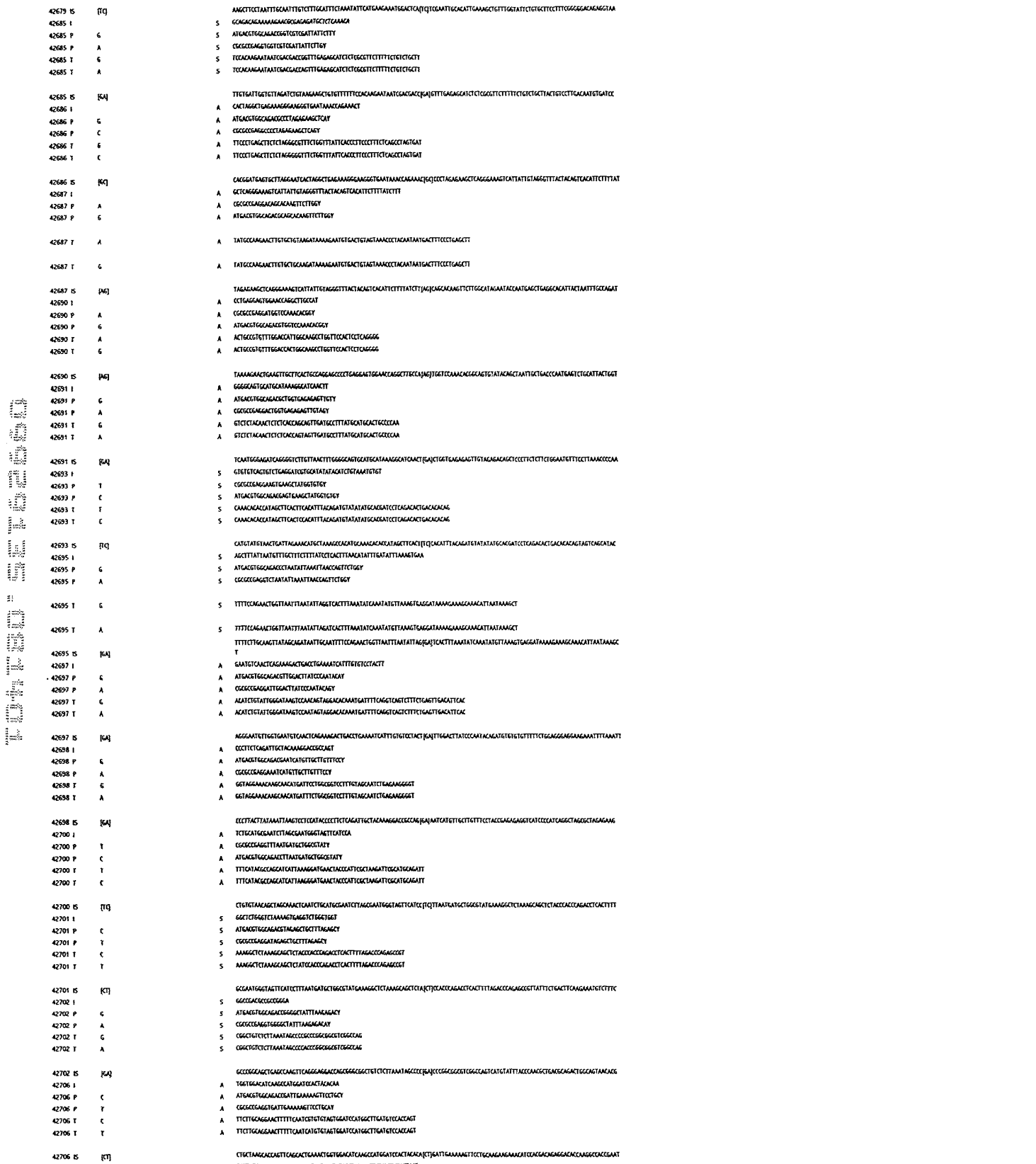


FIGURE 129F

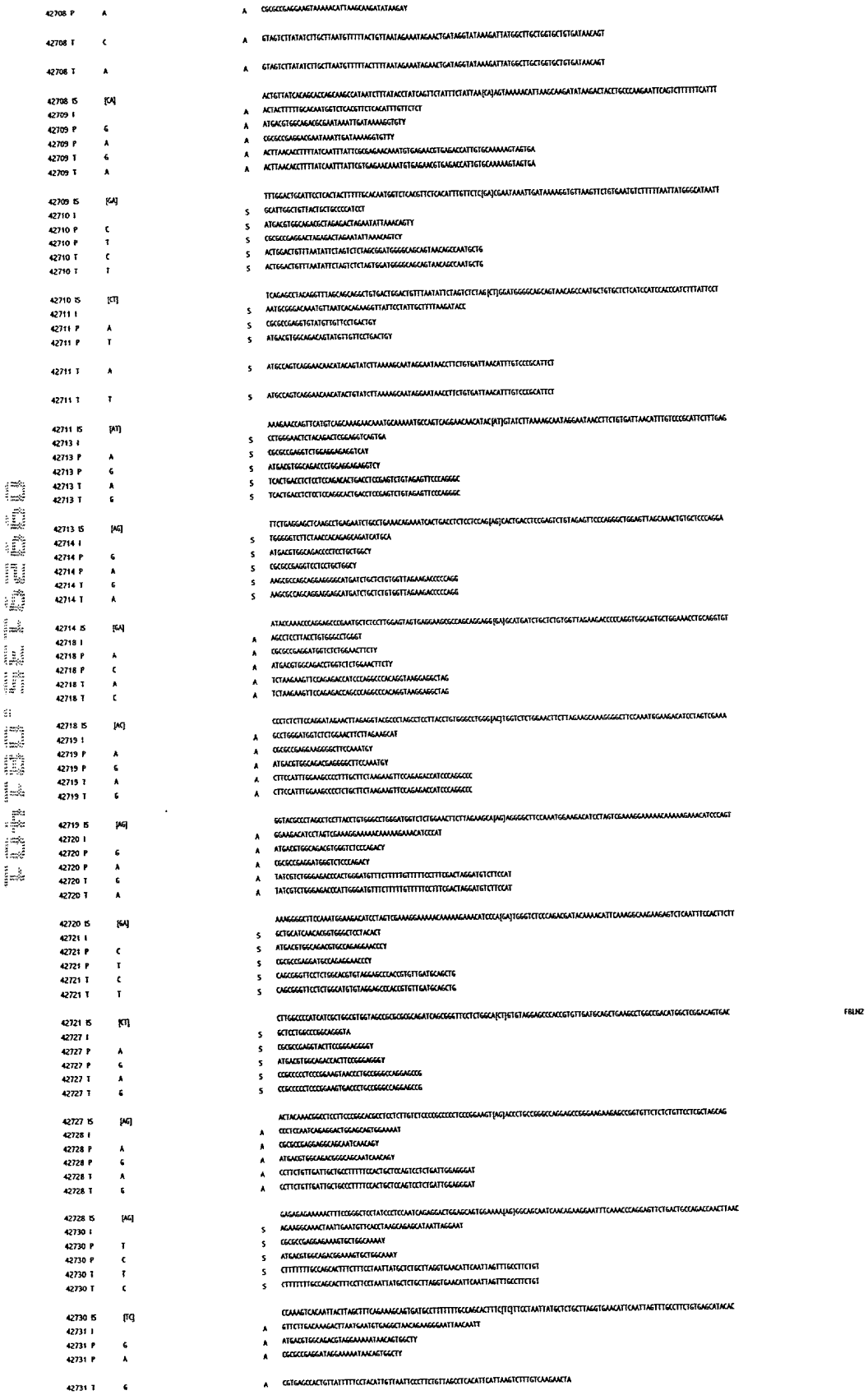
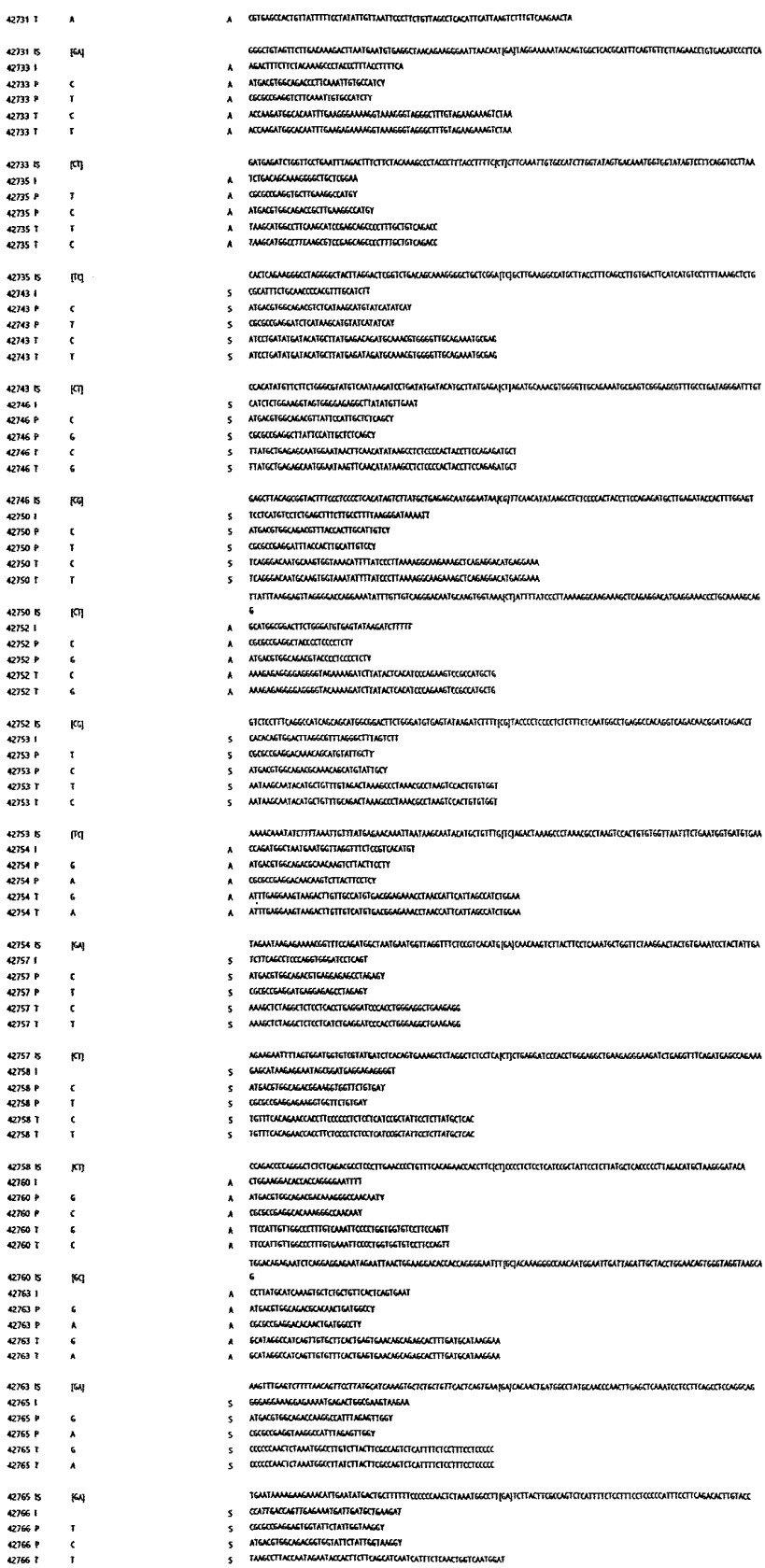

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42708 T A A GTAGTCTTATATCTTGCTTAATGTTTTTACTTTTAATAGAAATAGAACTGATAGGTATAAAGATTATGGCTTGCTGGTGCTGTGATAACAGT
42708 IS [CA] ACTGTTATCACAGCACCAGCAAGCCATAATCTTTATACCTATCAGTTCTATTTCTATTAA[CA]AGTAAAAACATTAAGCAAGATATAAGACTACCTGCCCAAGAATTCAGTCTTTTTTCATTT
42709 I A ACTACTTTTTGCACAATGGTCTCACGTTCTCACATTTGTTCTCT
42709 P G A ATGACGTGGCAGACGCGAATAAATTGATAAAAGGTGTY
42709 P A A CGCGCCGAGGACGAATAAATTGATAAAAGGTGTTY
42709 T G A ACTTAACACCTTTTATCAATTTATTCGGCAGAACAAATGTGAGAACGTGAGACCATTGTGCAAAAAGTAGTGA
42709 T A A ACTTAACACCTTTTATCAATTTATTCGTGAGAACAAATGTGAGAACGTGAGACCATTGTGCAAAAAGTAGTGA
42709 IS [GA] TTTGGACTGCATTCCTCACTACTTTTTGCACAATGGTCTCACGTTCTCACATTTGTTCTC[GA]CGAATAAATTGATAAAAGGTGTTAAGTTCTGTGAATGTCTTTTTAATTATGGGATAATT
42710 I S GCATTGGCTGTTACTGCTGCCCCATCCT
42710 P C S ATGACGTGGCAGACGCTAGAGACTAGAATATTAAACAGTY
42710 P T S CGCGCCGAGGACTAGAGACTAGAATATTAAACAGTCY
42710 T C S ACTGGACTGTTTAATATTCTAGTCTCTAGCGGATGGGGCAGCAGTAACAGCCAATGCTG
42710 T T S ACTGGACTGTTTAATATTCTAGTCTCTAGTGGATGGGGCAGCAGTAACAGCCAATGCTG
42710 IS [CT] TCACAGCCTACAGGTTTAGCAGCAGCACTGTGACTGGACTGTTTAATATTCTAGTCTCTAG[CT]GGATGGGGCAGCAGTAACAGCCAATGCTGTGCTCTCATCCATCCACCCATCTTTATTCCT
42711 I S AATGCGGGACAAATGTTAATCACAGAAAGGTTATTCCTATTGCTTTTAAGATACC
42711 P A S CGCGCCGAGGTGTATGTTGTTCCTGACTGY
42711 P T S ATGACGTGGCAGACAGTATGTTGTTCCTGACTGY
42711 T A S ATGCCAGTCAGGAACAACATACAGTATCTTAAAAGCAATAGGAATAACCTTCTGTGATTAACATTTGTCCCGCATTCT
42711 T T S ATGCCAGTCAGGAACAACATACTGTATCTTAAAAGCAATAGGAATAACCTTCTGTGATTAACATTTGTCCCGCATTCT
42711 IS [AT] AAAGAAACAGTTCATGTCAGCAAAGAACAAATGCAAAAATGCCAGTCAGGAACAACATAC[AT]GTATCTTAAAAGCAATAGGAATAACCTTCTGTGATTAACATTTGTCCCGCATTCTTTGAG
42713 I S CCTGGGAACTCTACAGACTCGGAGGTCAGTGA
42713 P A S CGCGCCGAGGTCTGGAGGAGAGGTCAY
42713 P G S ATGACGTGGCAGACCCTGCAGGAGAGGTCY
42713 T A S TCACTGACCTCTCCTCCAGNCACTGACCTCCGAGTCTGTAGAGTTCCCAGGGC
42713 T G S TCACTGACCTCTCCTCCAGGCACTGACCTCCGAGTCTGTAGAGTTCCCAGGGC
42713 IS [AG] TTCTGAGGAGCTCAAGCCTGAGAATCTGCCTGAAACAGAAATCACTGACCTCTCCTCCAG[AG]CACTGACCTCCGAGTCTGTAGAGTTCCCAGGGCTGGAGTTAGCAAACTGTGCTCCCCAGGA
42714 I S TGGGGGTCTTCTAACCACAGAGCAGATCATGCA
42714 P G S ATGACGTGGCAGACCCCTCCTGCTGGCY
42714 P A S CGCGCCGAGGTCCTCCTGCTGGCY
42714 T G S AAGCGCCAGCAGGAGGAGCATGATCTGCTCTGTGGTTAGAAGACCCCCAGG
42714 T A S AAGCGCCAGCAGGAGGAGCATGATCTGCTCTGTGGTTAGAAGACCCCCAGG
42714 IS [GA] ATACCAAACCCAGGAGCCCGAATGCTCTCCTTGGAGTAGTGAGGAAGGCGCAGCAGGAGG[GA]GCATGATCTGCTCTGTGGTTAGAAGACCCCCAGGTGGCAGTGCTGGAAACCTGCAGGTGT
42718 I A AGCCTCCTTACCTGTGGGCCTGGGT
42718 P A A CGCGCCGAGGATGGTCTCTGGAACTTCTY
42718 P C A ATGACGTGGCAGACCTGGTCTCTGGAACTTCTY
42718 T A A TCTAAGAAGTTCCAGAGACCATCCCAGGCCCACAGGTAAGGAGGCTAG
42718 T C A TCTAAGAAGTTCCAGAGACCAGCCCAGGCCCACAGGTAAGGAGGCTAG
42718 IS [AC] CCCTCTCTTCCAGGATAGAACTTAGAGGTACGCCCTAGCCTCCTTACCTGTGGGCCTGGG[AC]TGGTCTCTGGAACTTCTTAGAAGCAAAGGGGCTTCCAAATGGAAGACATCCTAGTCGAAA
42719 I A GCCTGGGATGGTCTCTGGAACTTCTTAGAAGCAT
42719 P A A CGCGCCGAGGAAAGGGCTTCCAAATGY
42719 P G A ATGACGTGGCAGACGAGGGGCTTCCAAATGY
42719 T A A CTTCCATTTGGAAGCCCCTTTGCTTCTAAGAAGTTCCAGAGACCATCCCAGGCCC
42719 T G A CTTCCATTTGGAAGCCCCTCTGCTTCTAAGAAGTTCCAGAGACCATCCCAGGCCC
42719 IS [AG] GGTACGCCCTAGCCTCCTTACCTGTGGGCCTGGGATGGTCTCTGGAACTTCTTAGAAGCA[AG]AGGGGCTTCCAAATGGAAGACATCCTAGTCGAAAGCAAAACAAAAAGAAACATCCCAGT
42720 I A GGAAGACATCCTAGTCGAAAGCAAAACAAAAAGAAACATCCCAT
42720 P G A ATGACGTGGCAGACGTGGGTCTCCCAGACY
42720 P A A CGCGCCGAGGATGGGTCTCCCAGACY
42720 T G A TATCGTCTGGGAGACCCACTGGGATGTTTCTTTTTGTTTTTCCTTTCGACTAGGATGTCTTCCAT
42720 T A A TATCGTCTGGGAGACCCATTGGGATGTTTCTTTTTGTTTTTCCTTTCGACTAGGATGTCTTCCAT
42720 IS [GA] AAAGGGGCTTCCAAATGGAAGACATCCTAGTCGAAAGCAAAACAAAAAGAAACATCCCA[GA]TGGGTCTCCCAGACGATACAAAACATTCAAAGGCAAGAAGAGTCTCAATTTCCACTTCTT
42721 I S GCTGCATCAACACGTGGGGCTCCTACACT
42721 P C S ATGACGTGGCAGACGTGCCAGAGGAACCCY
42721 P T S CGCGCCGAGGATGCCAGAGGAACCCY
42721 T C S CAGCGGGTTCCTCTGGCACGTGTAGGAGCCCACCGTGTTGATGCAGCTG
42721 T T S CAGCGGGTTCCTCTGGCATGTGTAGGAGCCCACCGTGTTGATGCAGCTG
42721 IS [CT] CTTGGCCCCATCATCGCTGCGTGGTAGCCGCGCGCGCAGATCAGCGGGTTCCTCTGGCA[CT]GTGTAGGAGCCCACCGTGTTGATGCAGCTGAAGCCTGGCCGACATGGCTCGGACAGTGAC FBLN2
42727 I S GCTCCTGGCCCGGCAGGGTA
42727 P A S CGCGCCGAGGTACTTCCGGGCAGGGGY
42727 P G S ATGACGTGGCAGACCACTTCCGGGCAGGGY
42727 T A S CCGCCCCCTCCCGGAAGTAACCCTGCCGGGCCAGGAGCCG
42727 T G S CCGCCCCCTCCCGGAAGTGACCCTGCCGGGCCAGGAGCCG
42727 IS [AG] ACTACAAACGGCCTCCTTCCCGGCACGCCTCCTCTTGTCTCCCCGCCCCCTCCCGGAAGT[AG]ACCCTGCCGGGCCAGGAGCCGGGAAGAAGAGCCGGTGTTCTCTCTGTTCCTCGCTAGCAG
42728 I A CCCTCCAATCAGAGGACTGGAGCAGTGGAAAAT
42728 P A A CGCGCCGAGGAGGCAGCAATCAACAGY
42728 P G A ATGACGTGGCAGACGGGCAGCAATCAACAGY
42728 T A A CCTTCTGTTGATTGCTGCCTTTTTCCACTGCTCCAGTCCTCTGATTGGAGGGAT
42728 T G A CCTTCTGTTGATTGCTGCCTTTTTCCACTGCTCCAGTCCTCTGATTGGAGGGAT
42728 IS [AG] GAGAGAGAAAAACTTTCCGGGCTCCTATCCCTCCAATCAGAGGACTGGAGCAGTGGAAAA[AG]GGCAGCAATCAACAGAAGGAATTTCAAACCCAGGAGTTCTGACTGCCAGACCAACTTAAC
42730 I S AGAAGGCAAACTAATTGAATGTYCACCTAAGCAGAGCATAATTAGGAAT
42730 P T S CGCGCCGAGGAGAAAAGTGCTGGCAAAAY
42730 P C S ATGACGTGGCAGACGGAAAGTGCTGGCAAAAY
42730 T T S CTTTTTTTGCCAGCACTTTCTTCCTAATTATGCTCTGCTTAGGTGAACATTCAATTAGTTTGCCTTCTGT
42730 T C S CTTTTTTTGCCAGCACTTTCCTTCCTAATTATGCTCTGCTTAGGTGAACATTCAATTAGTTTGCCTTCTGT
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42731 I A GTTCTTGACAAAGACTTAATGAATGTGAGGCTACAGAAGGGAATTAACAATT
42731 P G A ATGACGTGGCAGAGGTAGGAAAAATAACAGTGGCTY
42731 P A A CGCGCCGAGGATAGGAAAAATAACAGTGGCTY
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FIGURE 129F



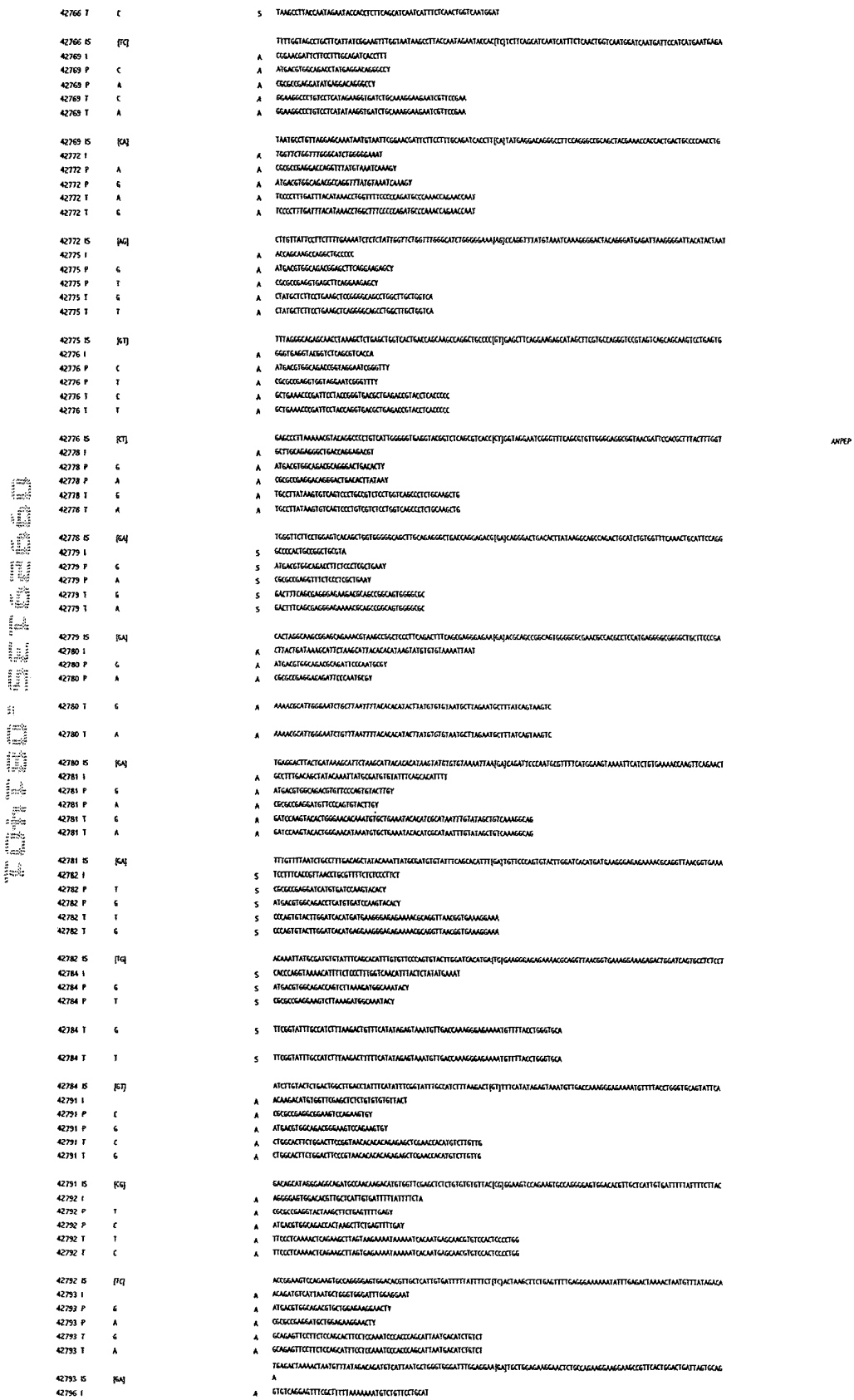

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42769 P C A A ATGACGTGGCAGACCTATGAGGAACAGGGCCY
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42769 T A A GGAAGGCCCTGTCCTCATATAAGGTGATCTGCAAAGGAAGAATCGTTCCGAA
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42772 I T G A TGGTTCTGGTTTGGGCATCTGGGGGAAAT
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42775 P G A ATGACGTGGCAGACGGAGCTTCAGGAAGAGCY
42775 P T A CGCGCCGAGGTGAGCTTCAGGAAGAGCY
42775 T G A CTATGCTCTTCCTGAAGCTCCGGGGCAGCCTGGCTTGCTGGTCA
42775 T T A CTATGCTCTTCCTGAAGCTCAGGGGCAGCCTGGCTTGCTGGTCA
42775 IS [GT] TTTAGGGCAGAGCAACCTAAAGCTCTGAGCTGGTCACTGACCAGCAAGCCAGGCTGCCCC[GT]GAGCTTCAGGAAGAGCATAGCTTCGTGCCAGGGTCCGTAGTCAGCAGCAAGTCCTGAGTG
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42776 P C A ATGACGTGGCAGACCGGTAGGAATCGGGTTY
42776 P T A CGCGCCGAGGTGGTAGGAATCGGGTTTY
42776 T C A GCTGAAACCGGATTCCTACCGGGTGACGCTGAGACCGTACCTCACCCCC
42776 T T A GCTGAAACCGGATTCCTACCAGGTGACGCTGAGACCGTACCTCACCCCC
42776 IS [CT] GAGCCCTTAAAAACGTACAGGCCCCTGTCATTGGGGGTGAGGTACGGTCTCAGCGTCACC[CT]GGTAGGAATCGGGTTTCAGCCTGTTGGGGAGGCGGTAACGATTCCACGCTTTACTTTGGT ANPEP
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42778 P G A ATGACGTGGCAGACCAGGGACTGACACTY
42778 P A A CGCGCCGAGGACAGGGACTGACACTTATAAY
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42779 T G S GACTTTCAGCGAGGGAGAAAACGCAGCCGGCAGTGGGGCGC
42779 T A S GACTTTCAGCGAGGGAGAAAACGCAGCCGGCAGTGGGGCGC
42779 IS [GA] CACTAGGCAAGCGGAGCAGAAAGSTAAGCCTGCTCCCTTCAGACTTTCAGCGAGGGAGAAA[GA]ACAGCGACCCGGCAGTGGGGCGCGAACGCCAGCCTCCATGAGGGGCGGGGCTGCTCCCGA
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42780 P A A CGCGCCGAGCAGACAGATTCCCAATGCGY
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FIGURE 129F

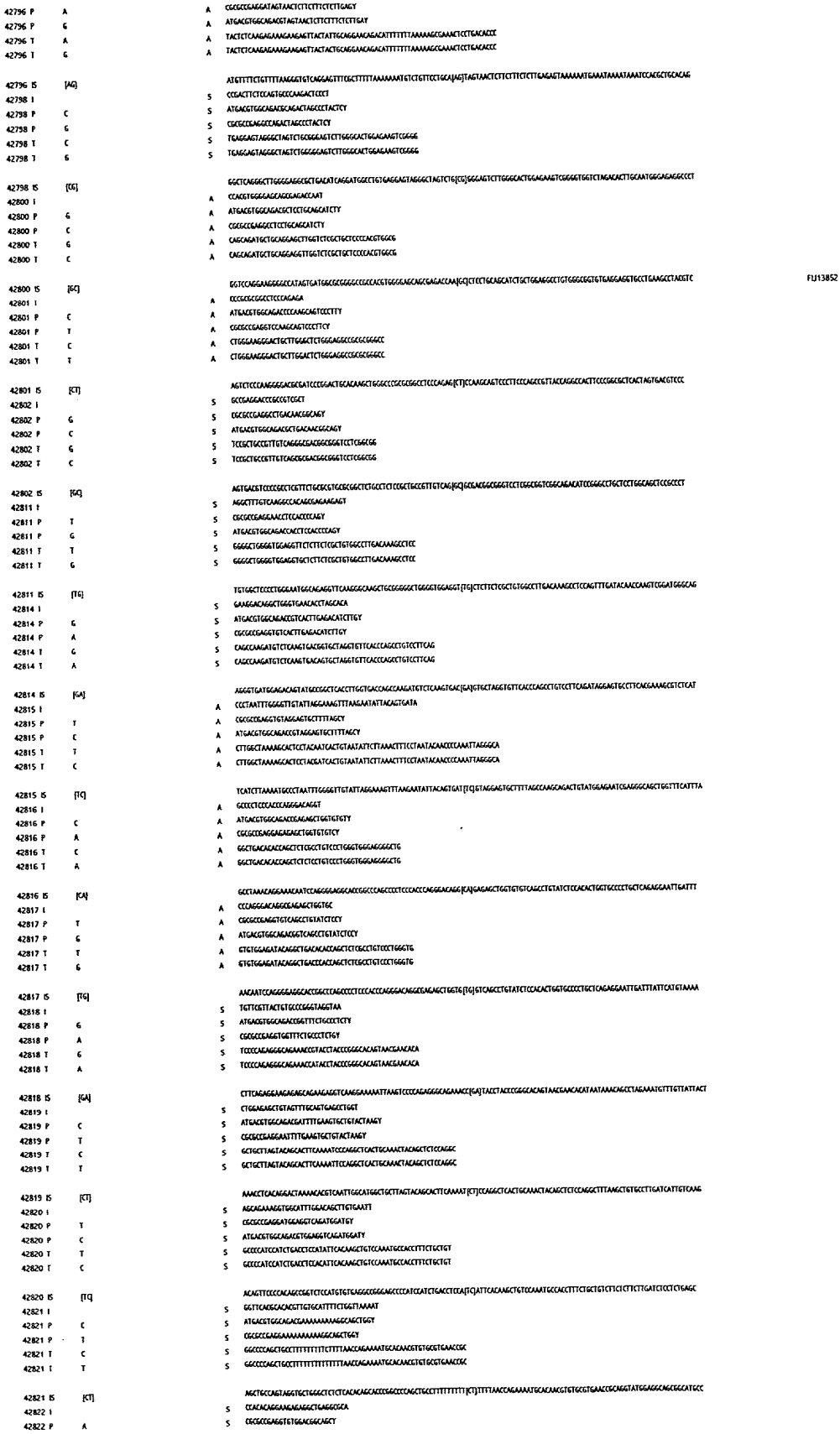
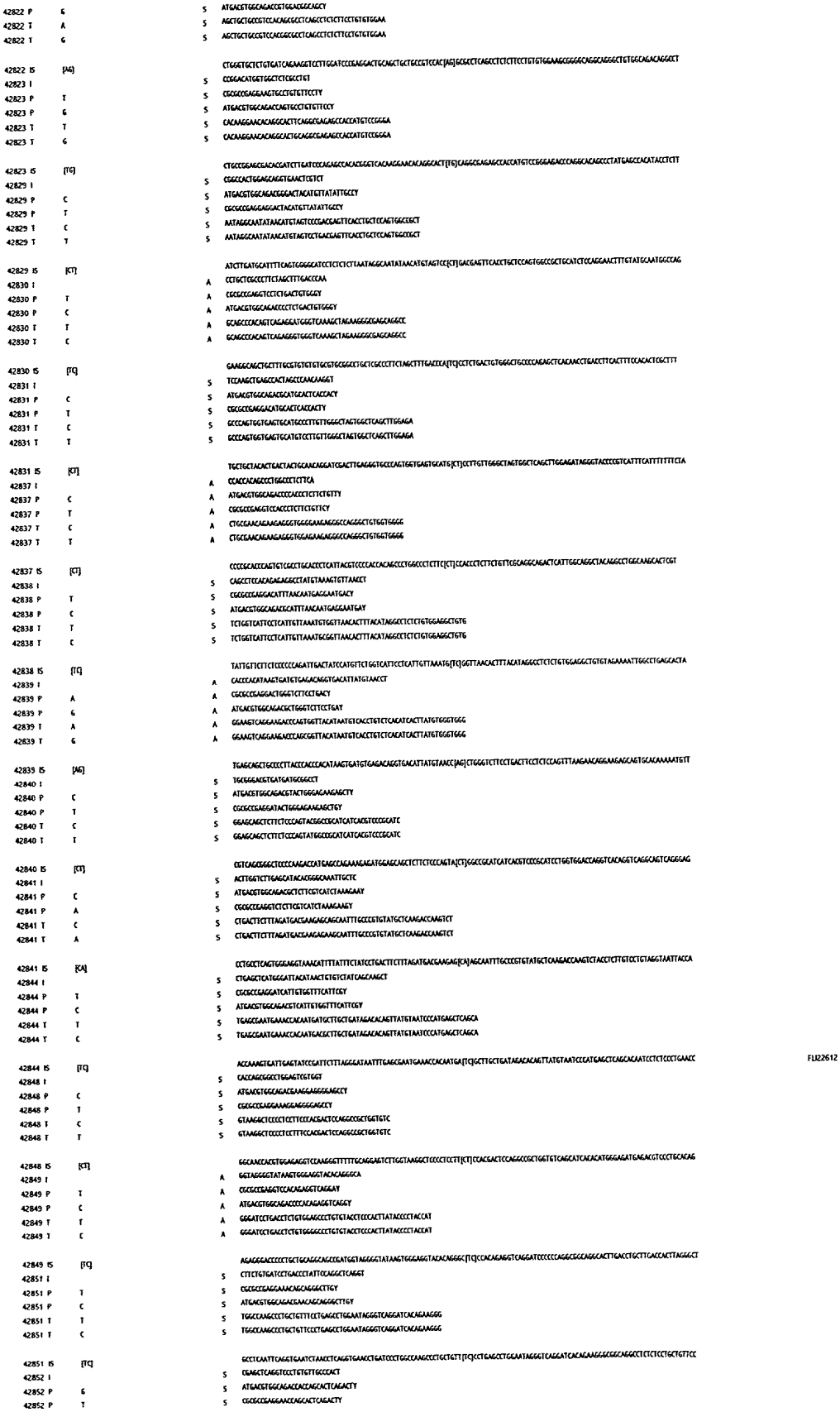

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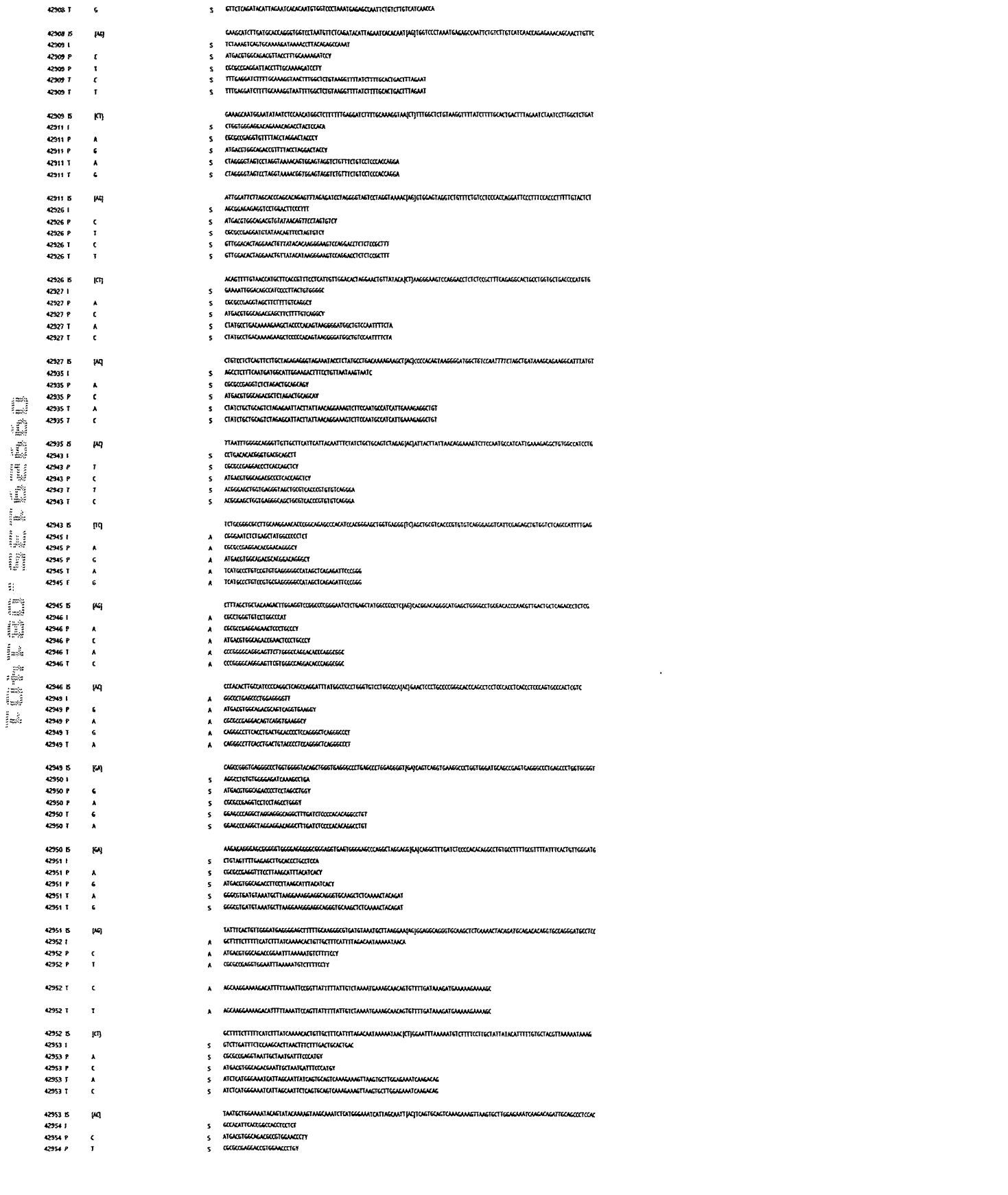
FIGURE 129F



UNPUBLISHED

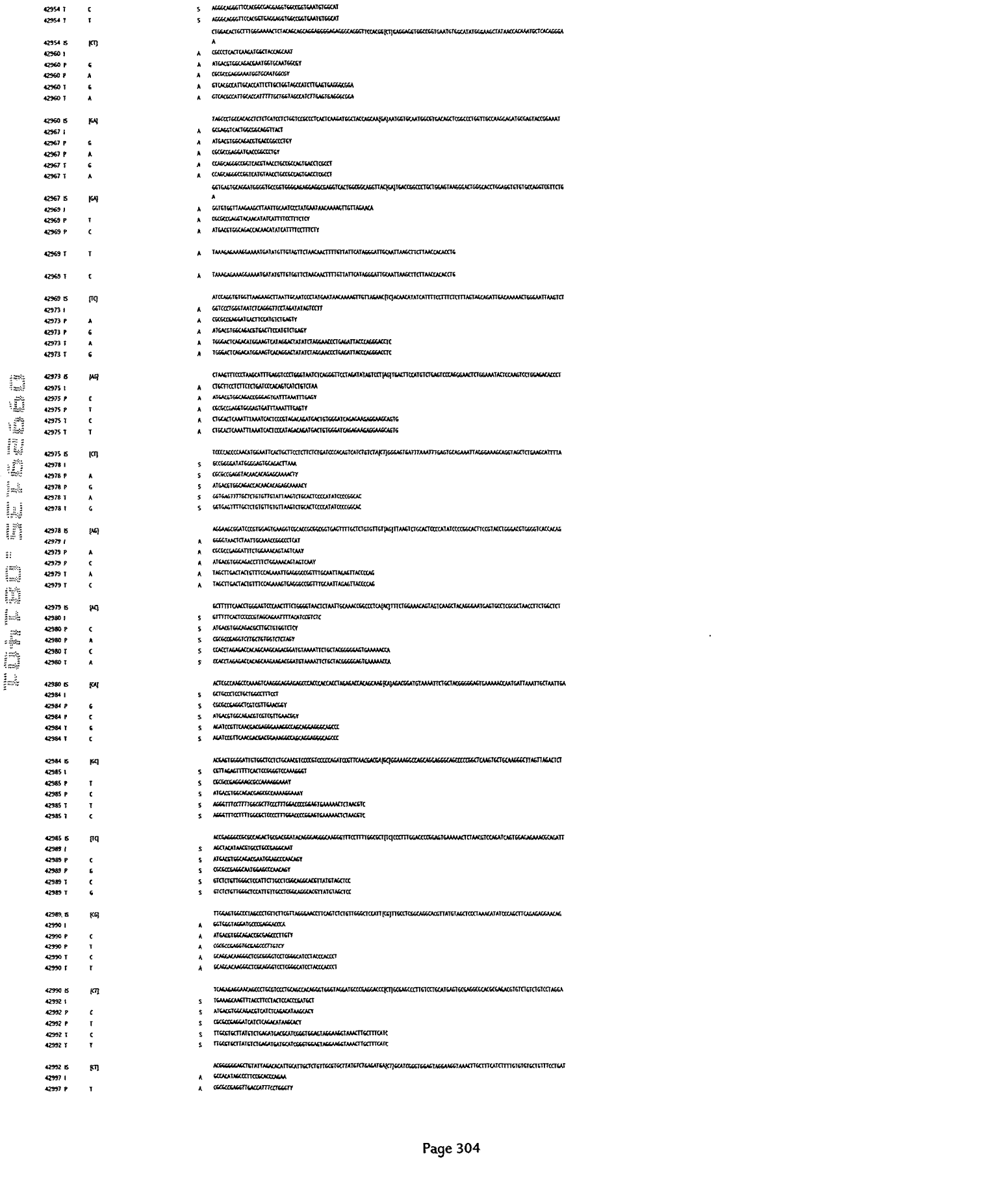


FIGURE 129F



Unpublished PCT Application

FIGURE 129F



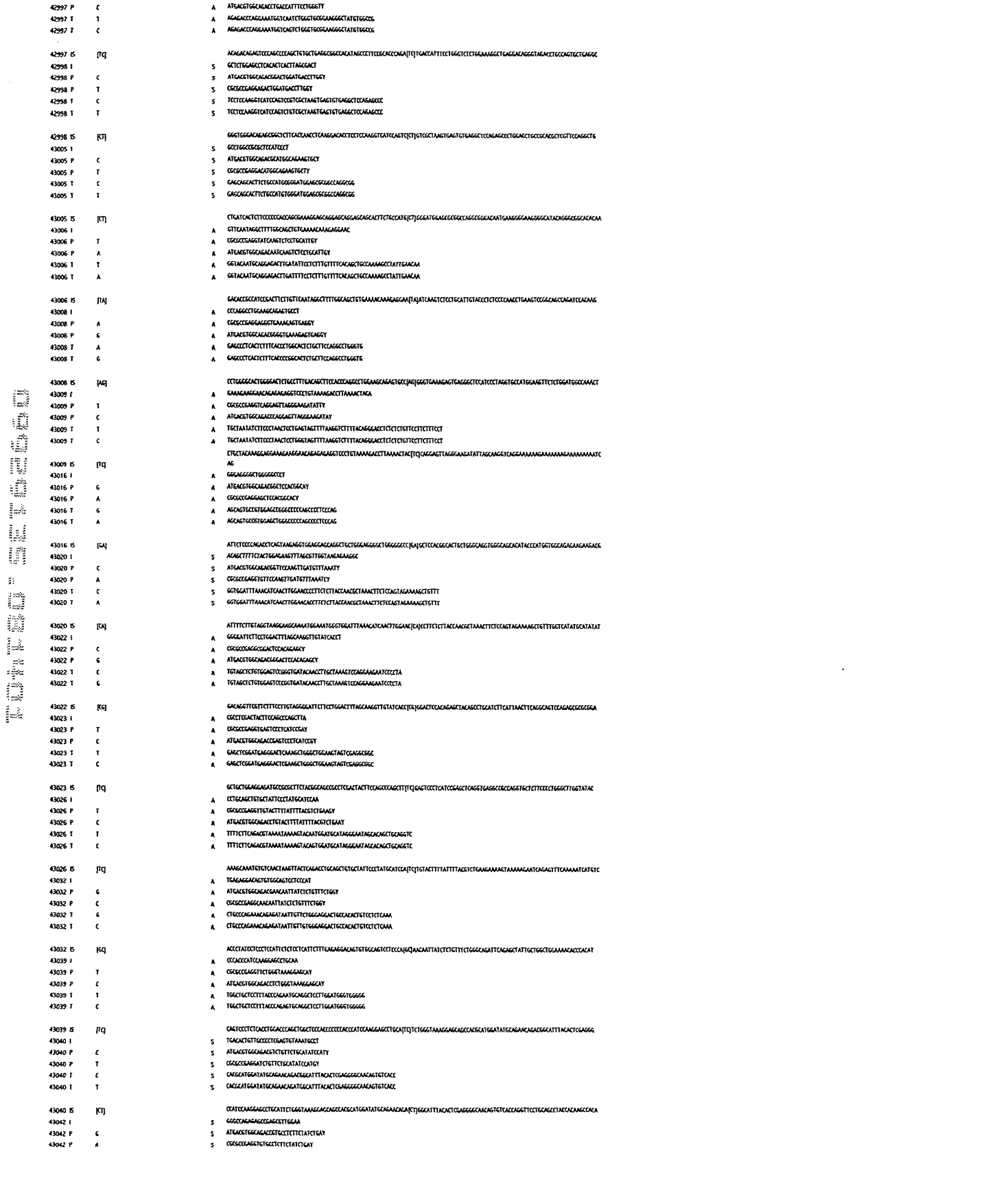


FIGURE 129F

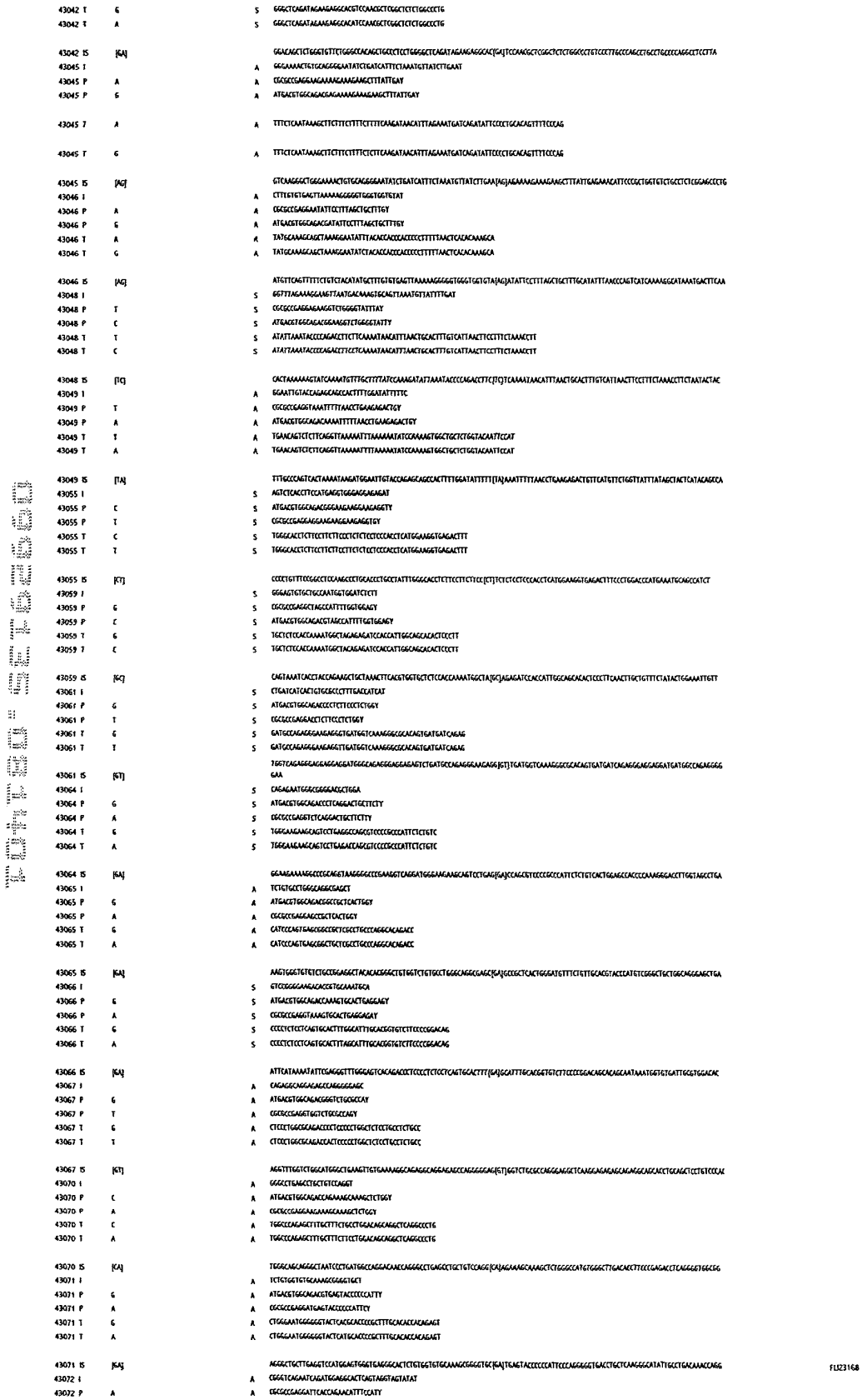
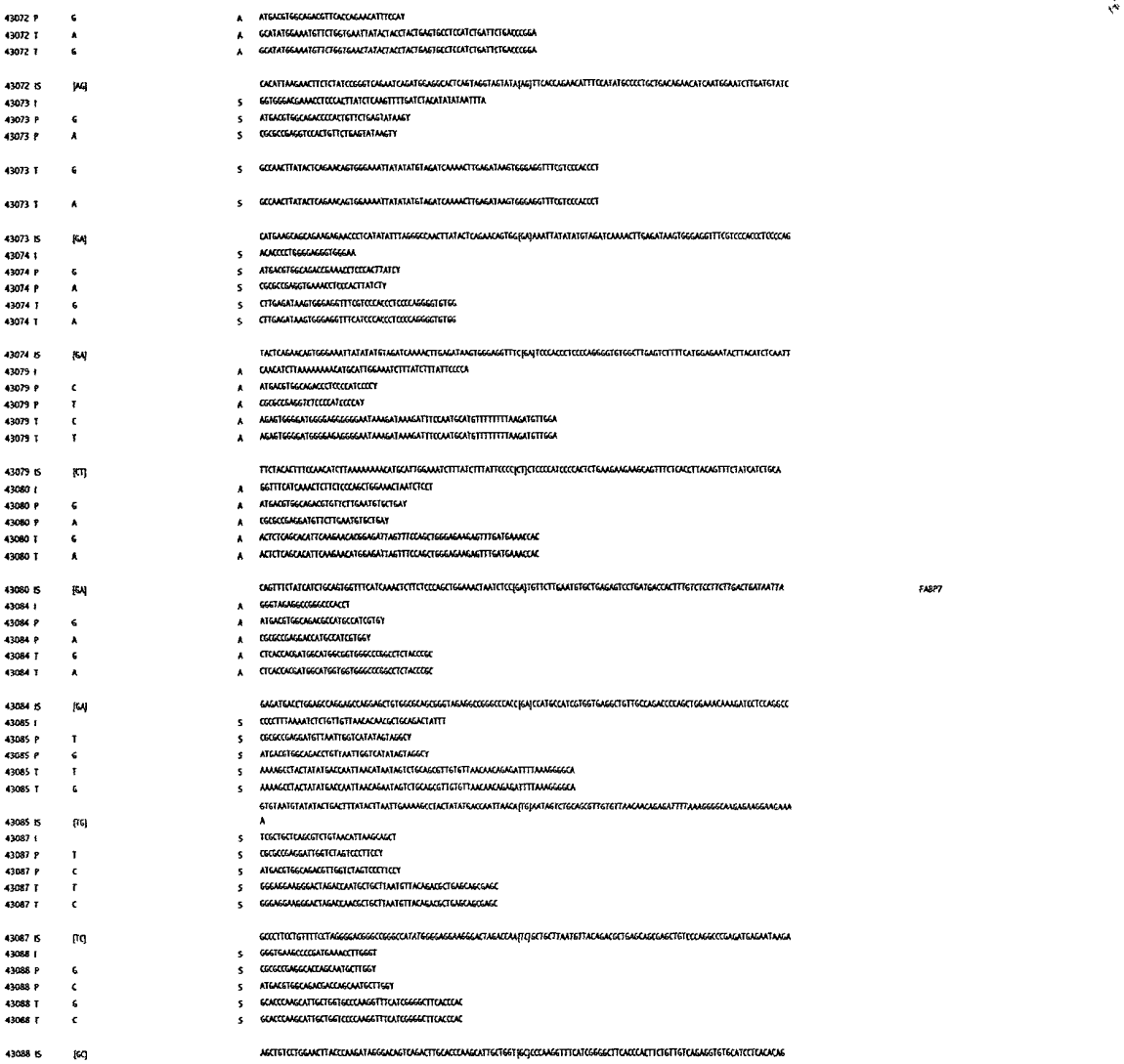


FIGURE 129F



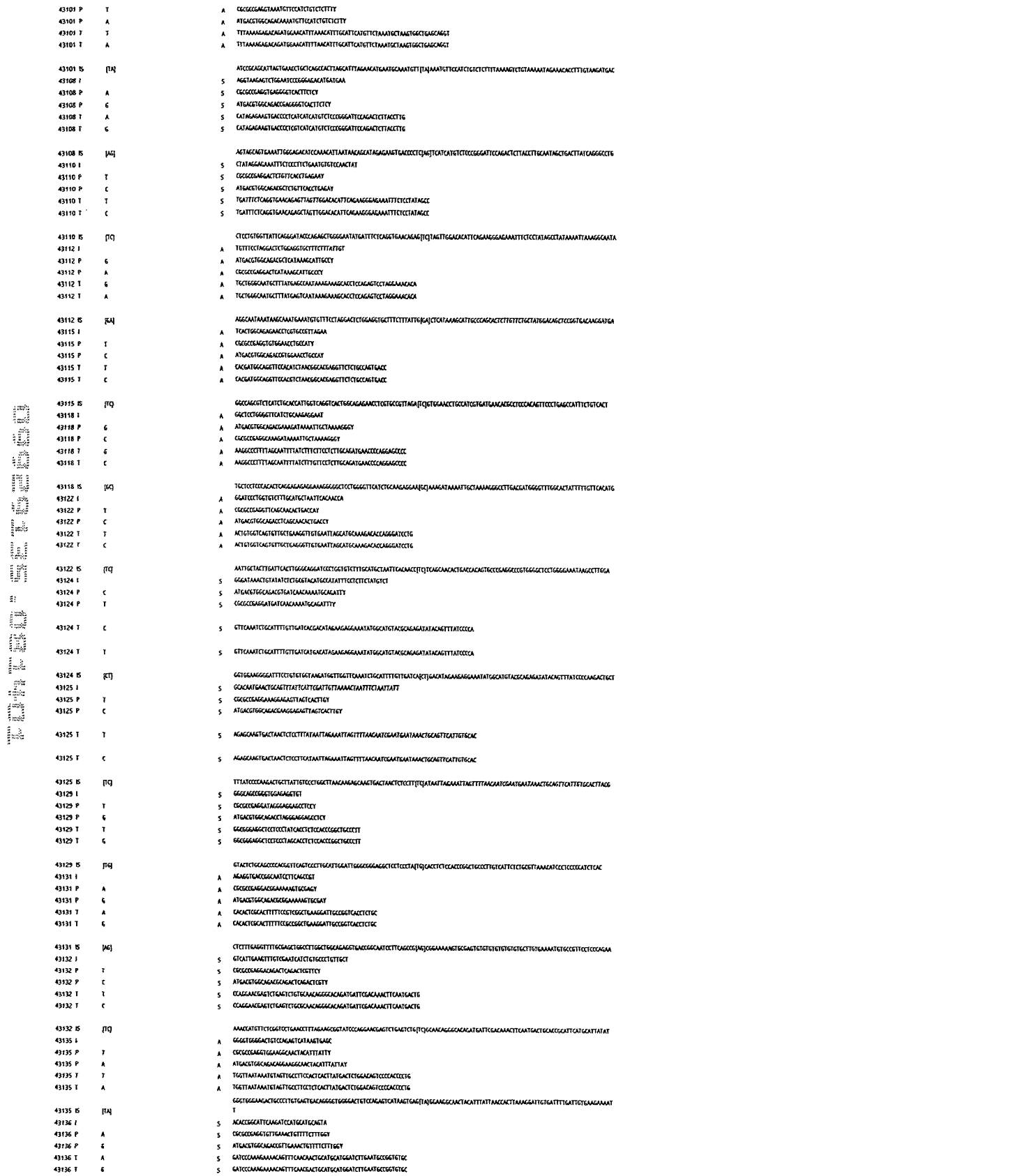
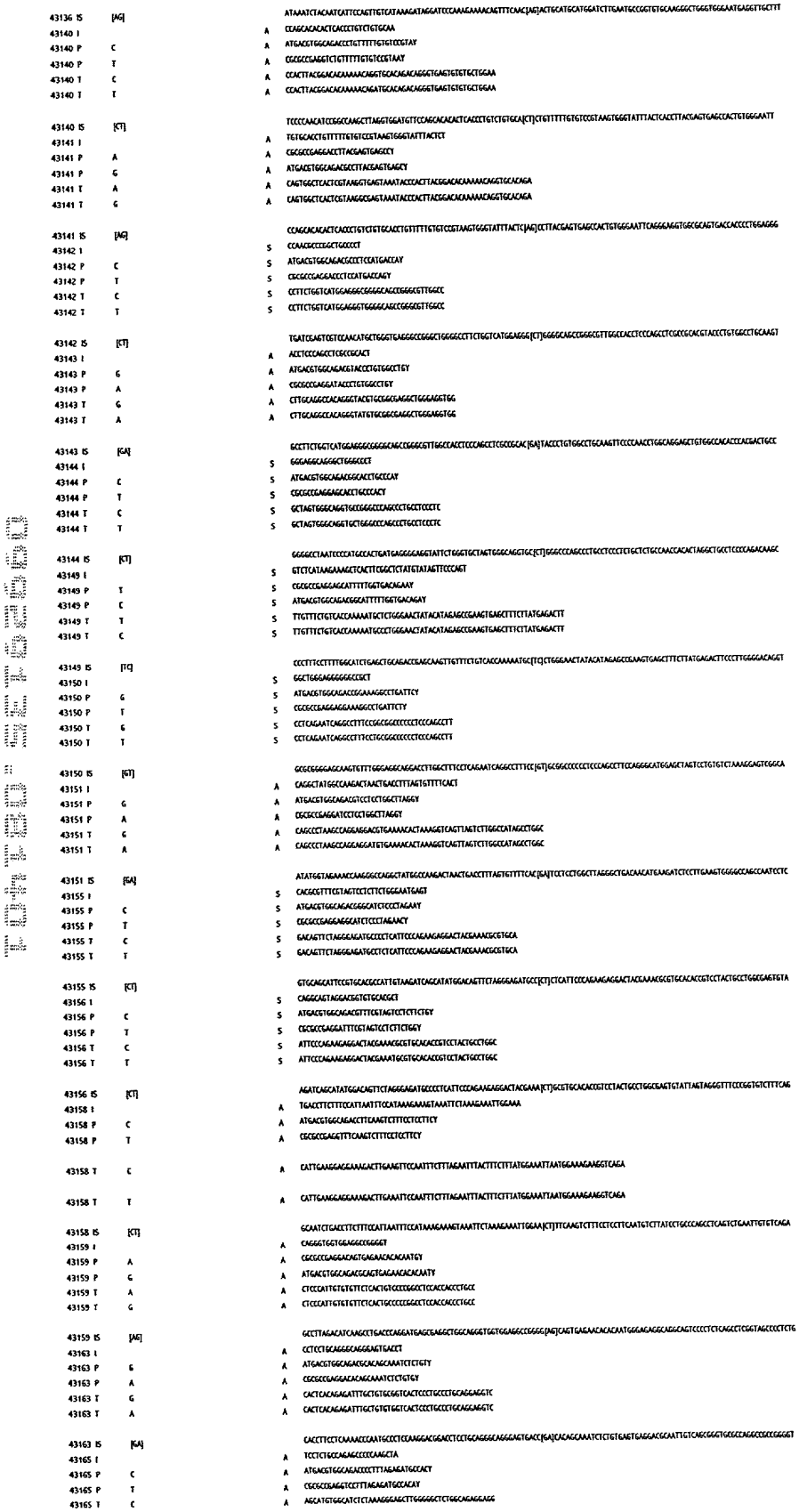


FIGURE 129F



Filed: June 30, 2000

FIGURE 129F

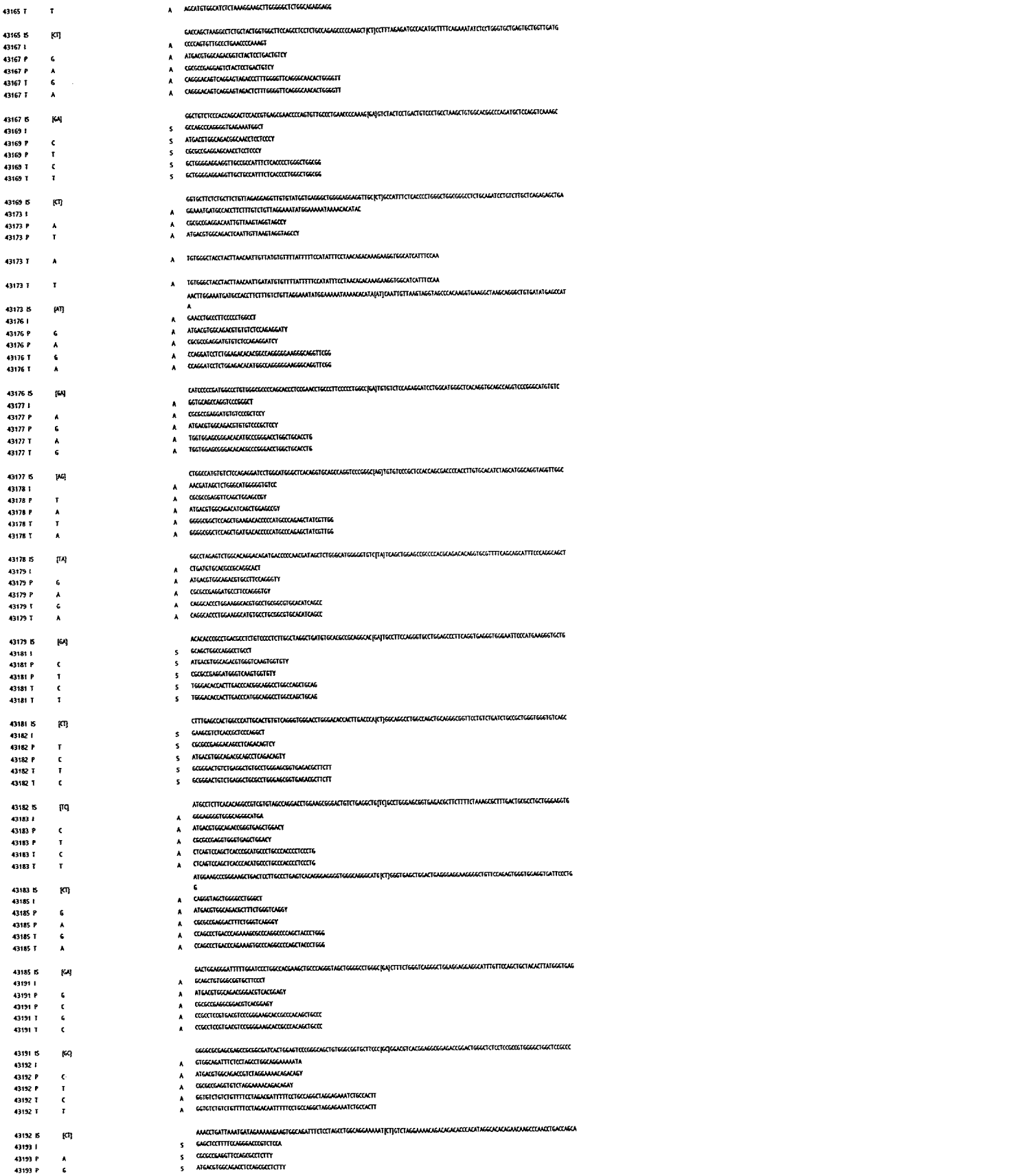


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FIGURE 129F

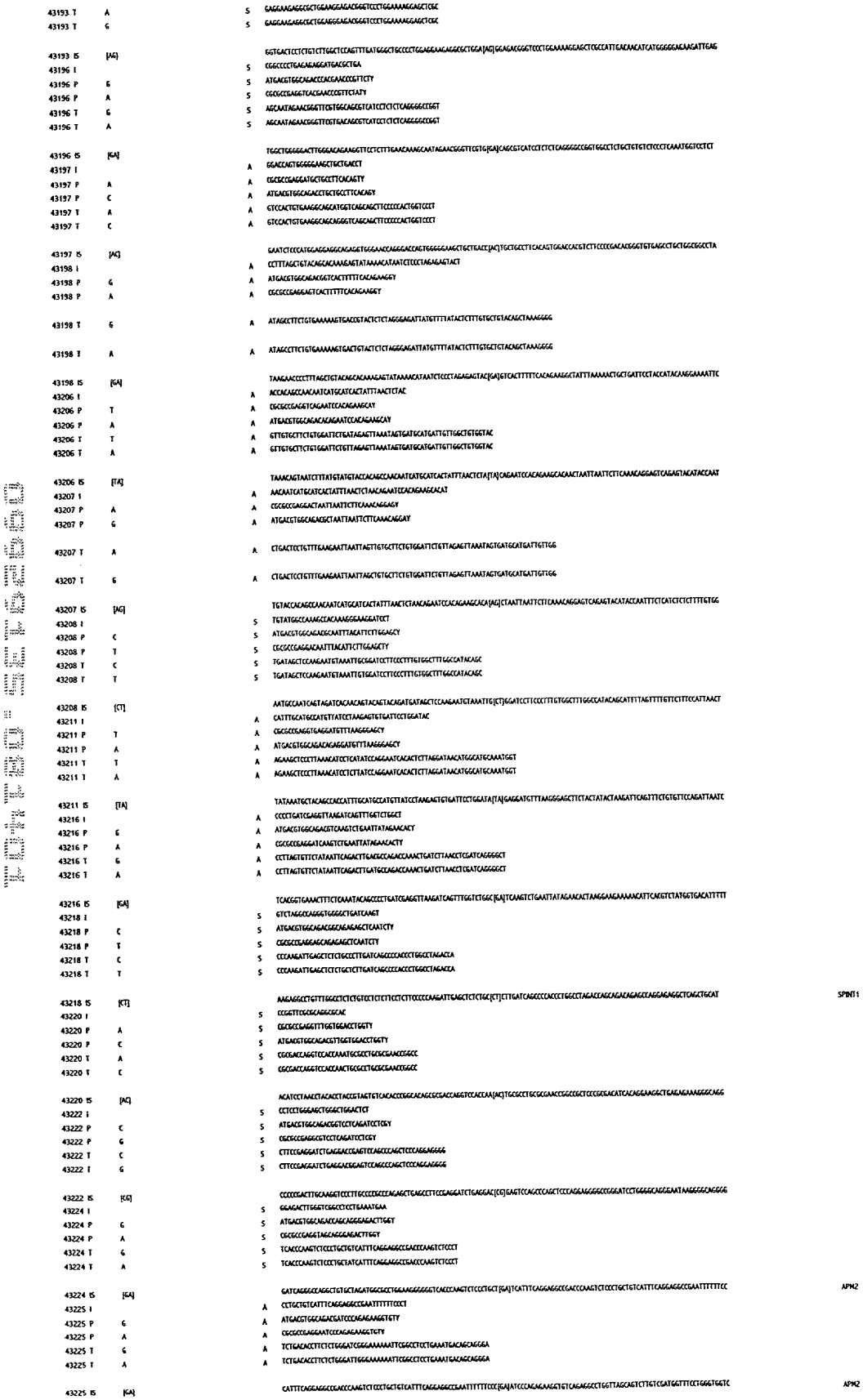


FIGURE 129F

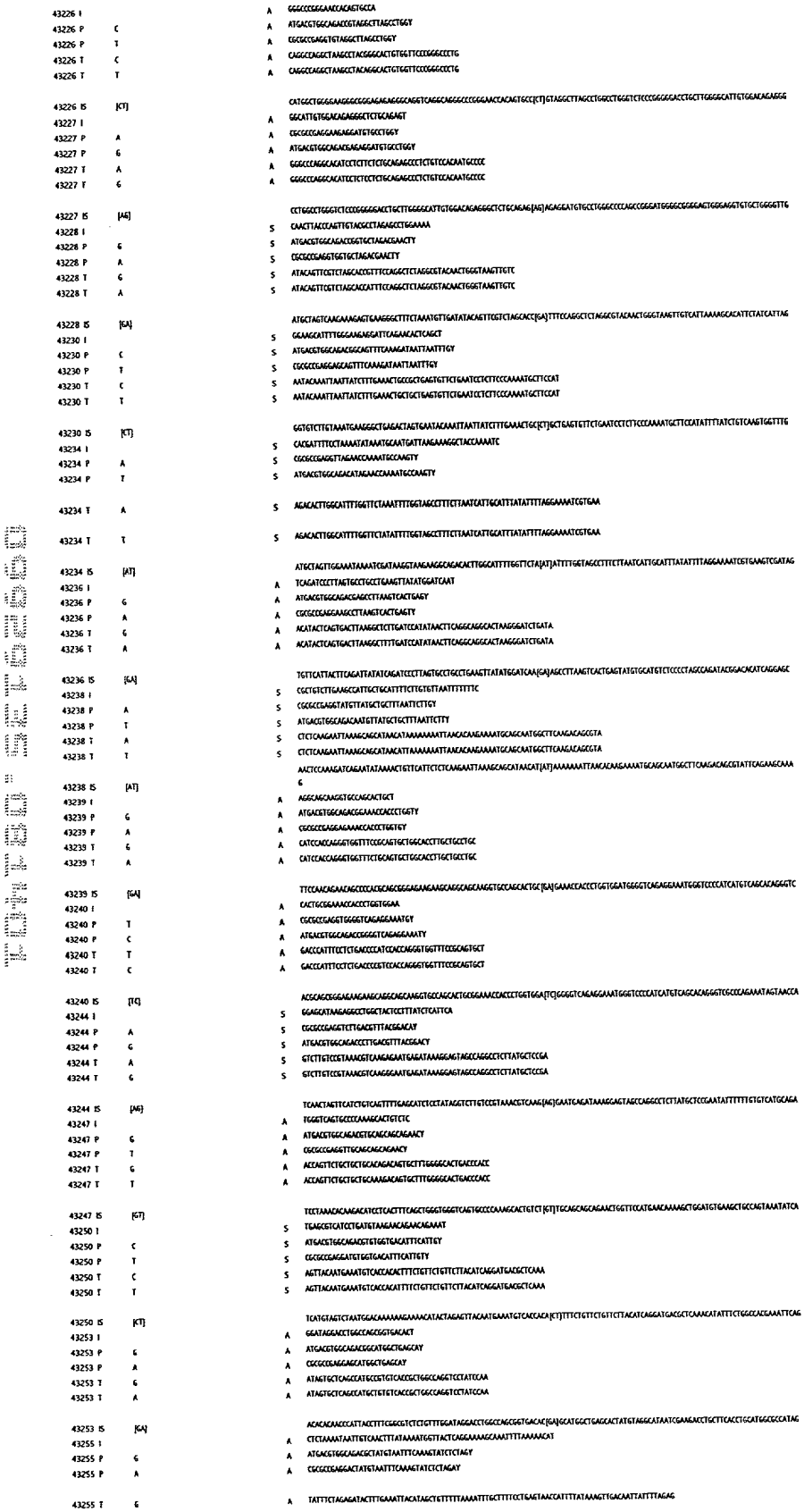


FIGURE 129F

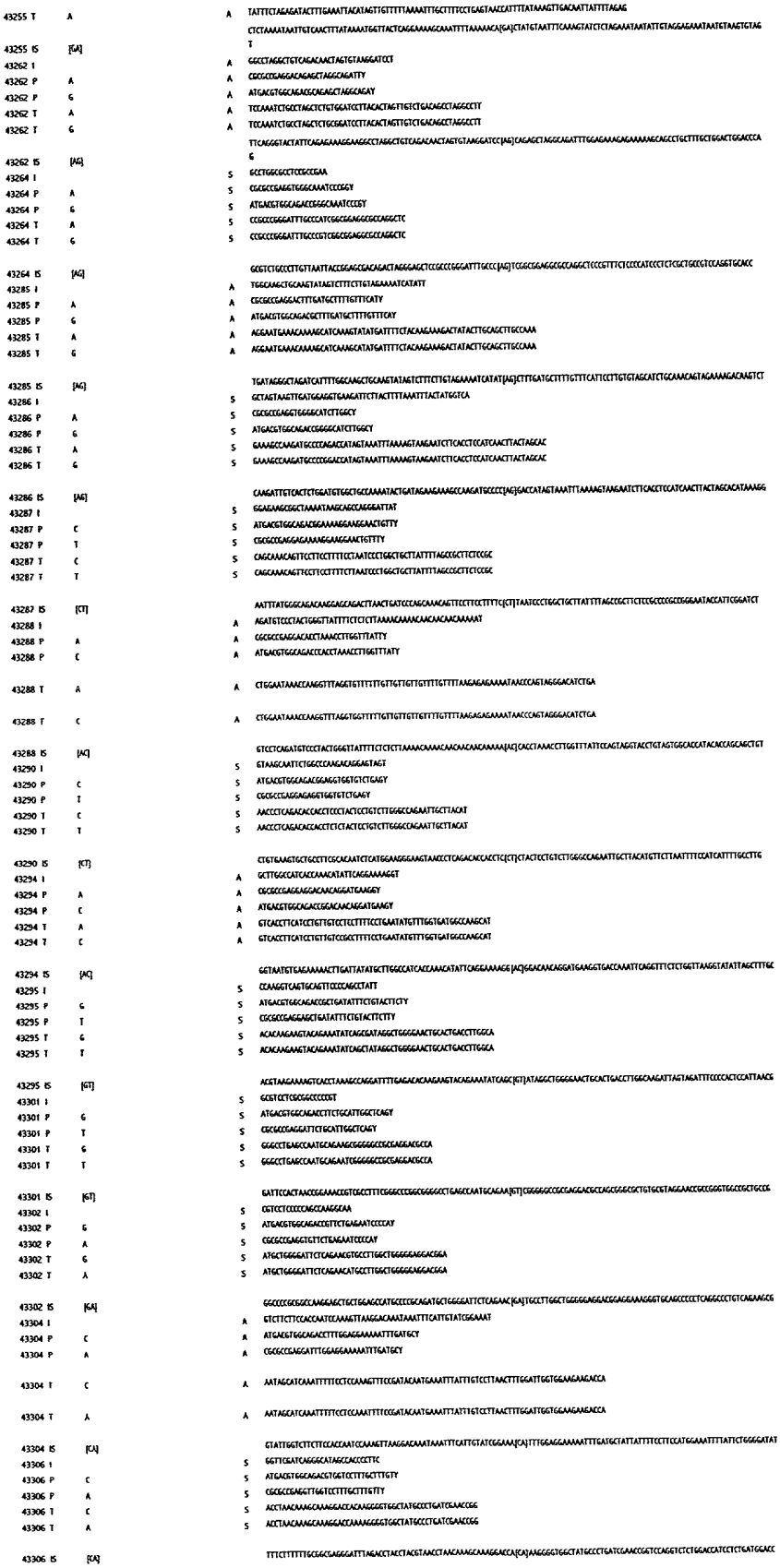


FIGURE 129F

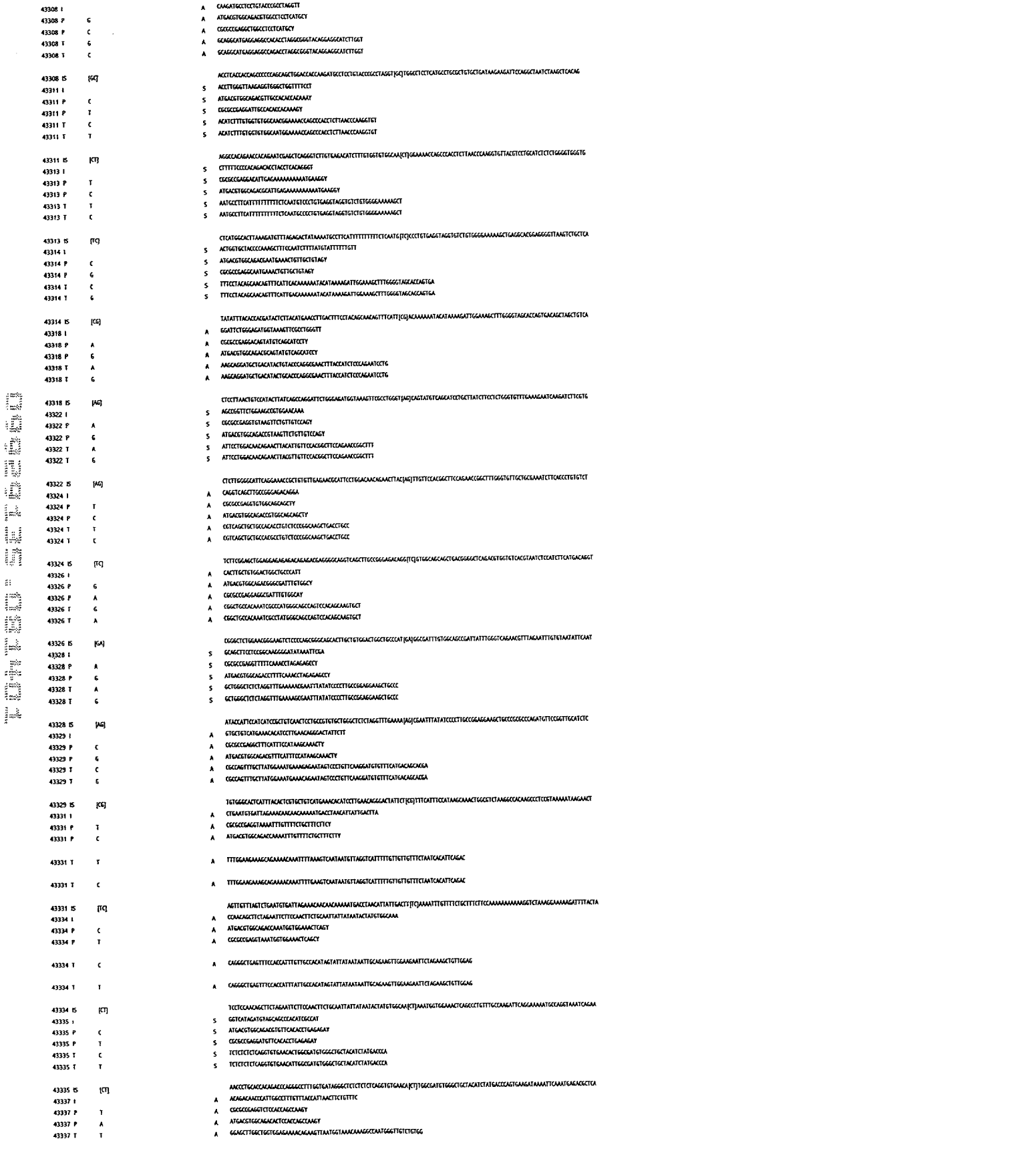

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FIGURE 129F

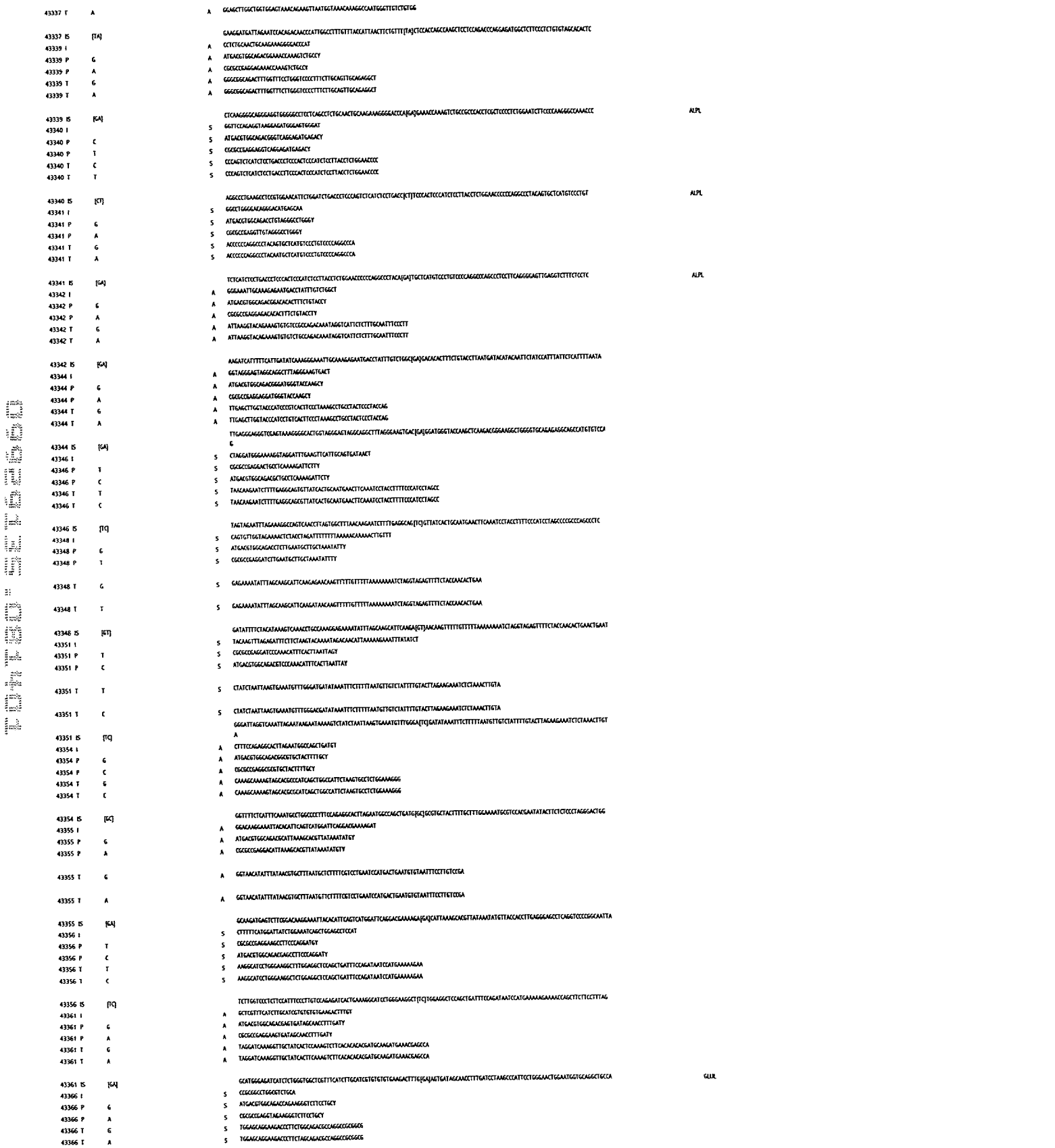
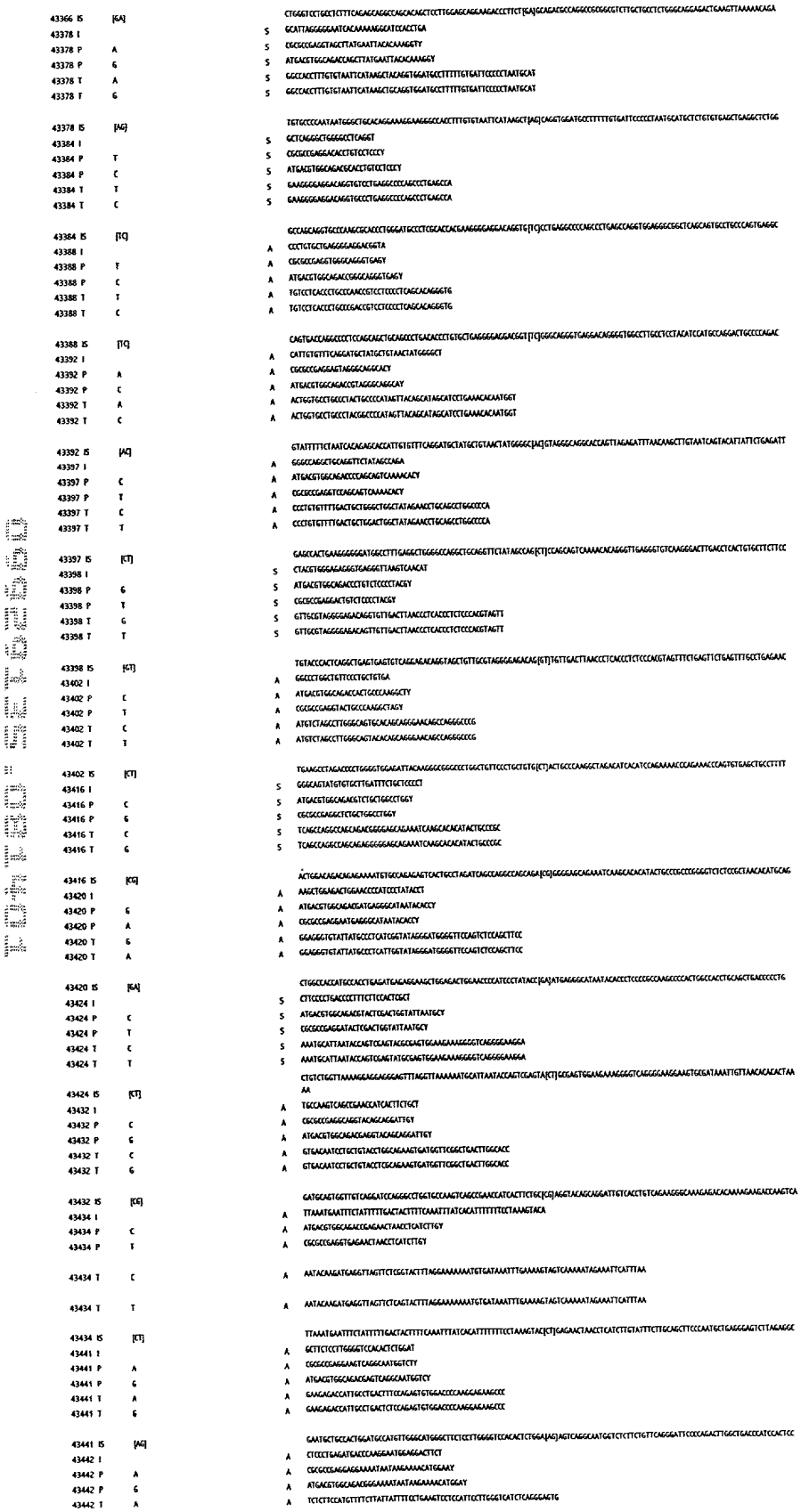
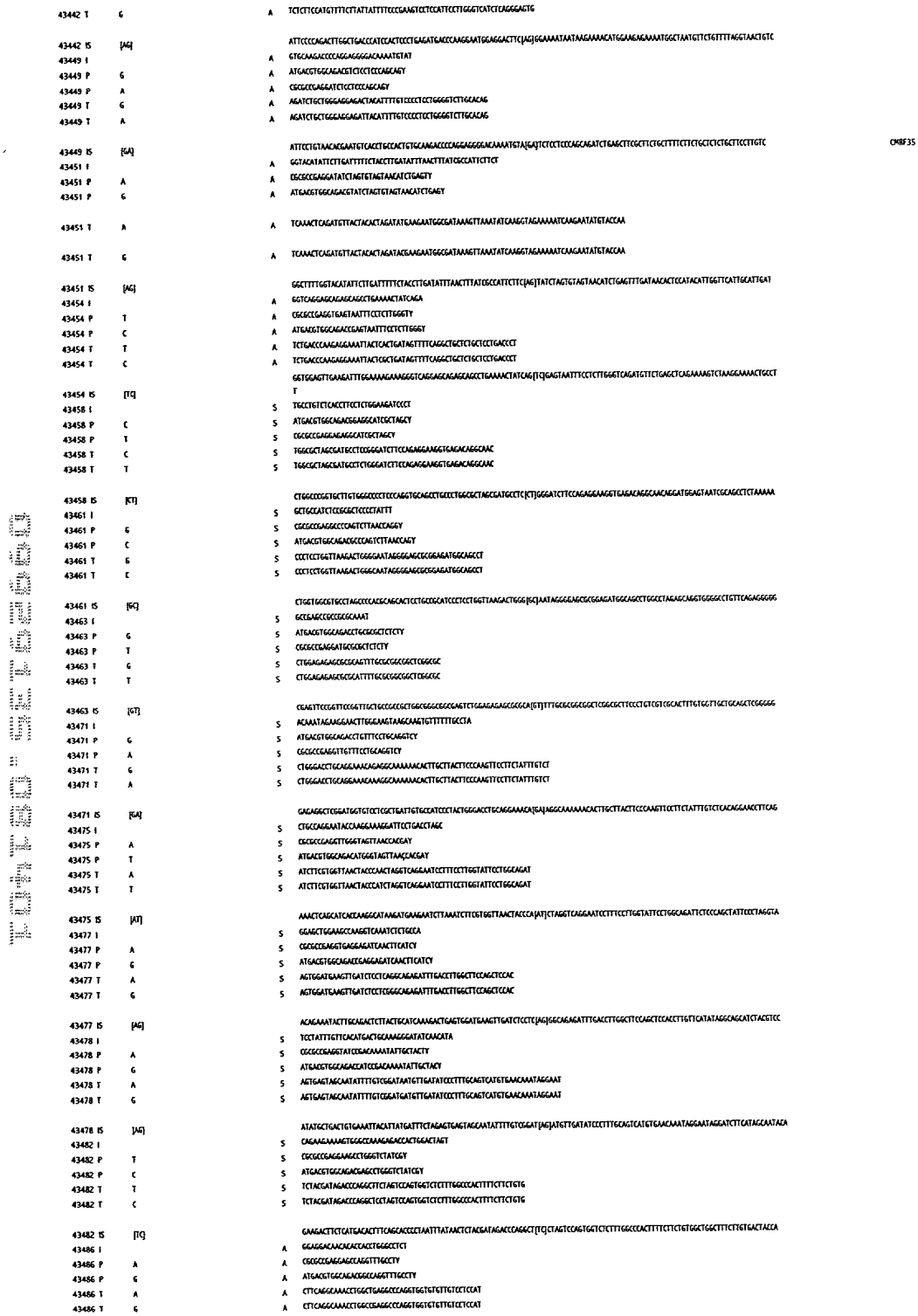

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FIGURE 129F



Jan 10, 2001 11:11 AM

FIGURE 129F



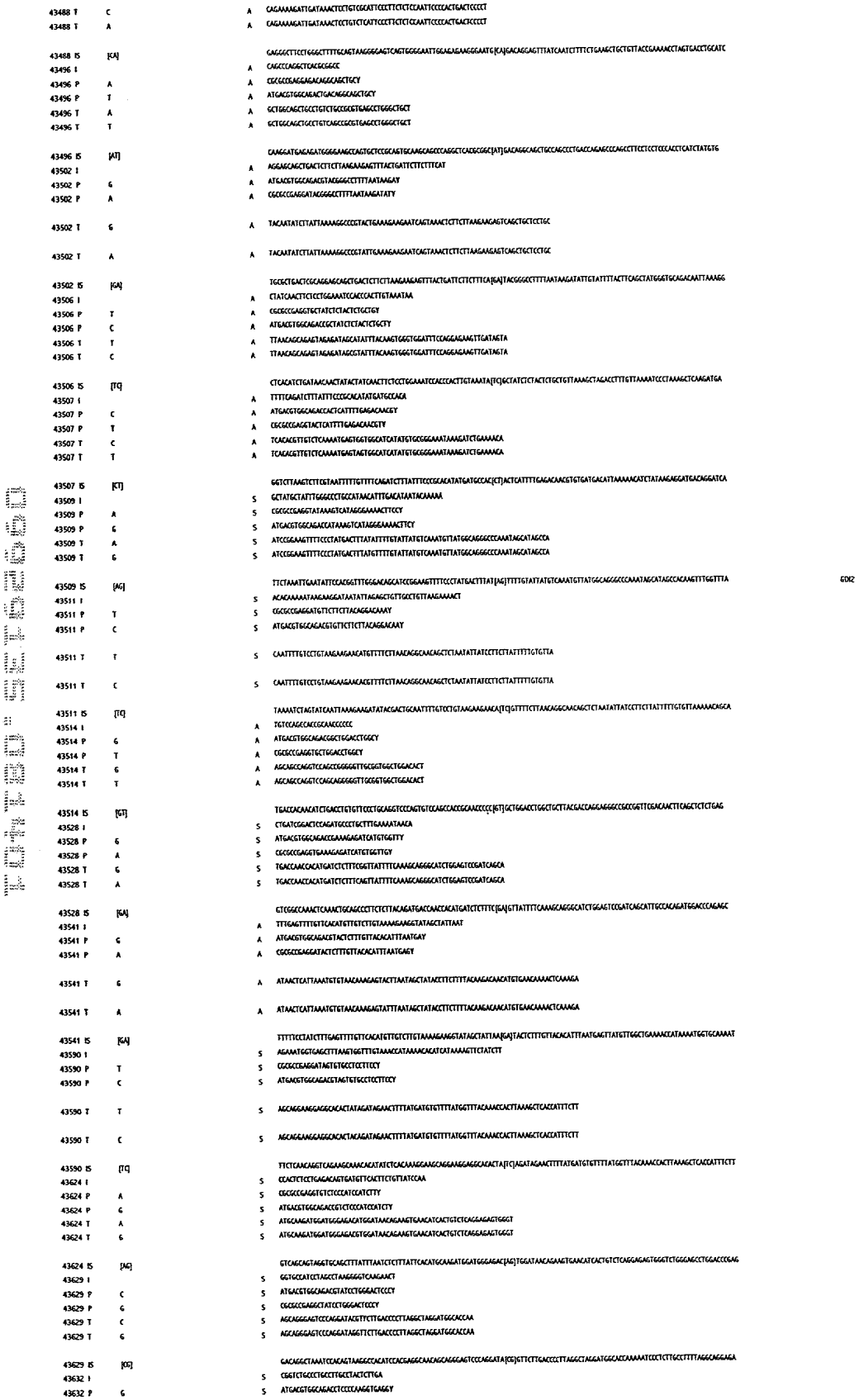

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43506 IS [TC] CTCACATCTGATAACAACTATACTATCAACTTCTCCTGCAAATCCACCCACTTGTAAATA[TC]GCTATCTCTACTCTGCTGTTAAAGCTAGACCTTTGTTAAAATCCCTAAAGCTCAAGATGA
43507 I A TTTTCAGATCTTTATTTCCCGCACATATGATGCCACA
43507 P C A ATGACGTGGCAGACCACTCATTTTGAGACAACGY
43507 P T A CGCGCCGAGGTACTCATTTTGAGACAACGTY
43507 T C A TCACACGTTGTCTCAAAATGAGTGGTGGCATCATATGTGCGGGAAATAAAGATCTGAAAACA
43507 T T A TCACACGTTGTCTCAAAATGAGTAGTGGCATCATATGTGCGGGAAATAAAGATCTGAAAACA
43507 IS [CT] GGTCTTAAGTCTTCGTAATTTTTGTTTTCAGATCTTTATTTCCCGCACATATGATGCCAC[CT]ACTCATTTTGAGACAACGTGTGATGACATTAAAAACATCTATAAGAGGATGACAGGATCA
43509 I S GCTATGCTATTTGGGCCCTGCCATAACATTTGACATAATACAAAAA
43509 P A S CGCGCCGAGGTATAAAGTCATAGGGAAAACTTCCY
43509 P G S ATGACGTGGCAGACCATAAAGTCATAGGGAAAACTTCY
43509 T A S ATCCGGAAGTTTTCCCTATGACTTATATTTTGTATTATGTCAAATGTTATGGCAGGGCCCAAATAGCATAGCCA
43509 T G S ATCCGGAAGTTTTCCCTATGACTTTATGTTTTGTATTATGTCAAATGTTATGGCAGGGCCCAAATAGCATAGCCA
43509 IS [AG] TTCTAAATTGAATATTCCACAGGTTTGGGACAGCATCCGGAAGTTTTCCCTATGACTTTAT[AG]TTTTGTATTATGTCAAATGTTATGGCAGGGCCCAAATAGCATAGCCACAAGTTTGGTTTA GDX2
43511 I S ACACAAAAATAAGAAGGATAATATTAGAGCTGTTGCCTGTTAAGAAAACT
43511 P T S CGCGCCGAGGATGTCTCTCTACAGGACAAAY
43511 P C S ATGACGTGGCAGACGTGTCTCTTACAGGACAAY
43511 T T S CAATTTTGTCCTGTAAGAAGAACATGTTTTCTTAACAGGCAACAGCTCTAATATTATCCTTCTTATTTTTGTGTTA
43511 T C S CAATTTTGTCCTGTAAGAAGAACACGTTTTCTTAACAGGCAACAGCTCTAATATTATCCTTCTTATTTTTGTGTTA
43511 IS [TC] TAAAATCTAGTATCAATTAAAGAAGATATACGACTGCAAATTTTGTCCTGTAAGAAGAACA[TC]GTTTTCTTAACAGGCAACAGCTCTAATATTATCCTTCTTATTTTTGTGTTAAAAACAGCA
43514 I A TGTCCAGCCACCGCAACCCCCC
43514 P G A ATGACGTGGCAGACGGCTGGACCTGGCY
43514 P T A CGCGCCGAGGTGCTGGACCTGGCY
43514 T G A AGCAGCCAGGTCCAGCCGGGGGTTGCGGTGGCTGGACACT
43514 T T A AGCAGCCAGGTCCAGCAGGGGGTTGCGGTGGCTGGACACT
43514 IS [GT] TGACCACAACATCTGACCTGTGTTCCCTGCAGGTCCCAGTGTCCAGCCACCGCAACCCC[GT]GCTGGACCTGGCTGCTTACGACCAGGAGGGCCGCCGGTTCGACAACTTCAGCTCTCTGAG
43528 I S CTGATCGGACTCCAGATGCCCTGCTTTGAAAATAACA
43528 P G S ATGACGTGGCAGACCGAAAGAGATCATGTGGTTY
43528 P A S CGCGCCGAGGTGAAAGAGATCATGTGGTTGY
43528 T G S TGACCAACCACATGATCTCTTTCGGTTATTTTCAAAGCAGGGCATCTGGAGTCCGATCAGCA
43528 T A S TGACCAACCACATGATCTCTTTCAGTTATTTTCAAAGCAGGGCATCTGGAGTCCGATCAGCA
43528 IS [GA] GTCGGCCAAACTCAAACTGCAGCCCTTCTCTTACAGATGACCAACCACATGATCTCTTTC[GA]GTTATTTTCAAAGCAGGGCATCTGGAGTCCGATCAGCATTGCCACAGATGGACCCAGAGC
43541 I A TTTGAGTTTTGTTCACATGTTGTCTTGTAAAAGAAGGTATAGCTATTAAT
43541 P G A ATGACGTGGCAGACGTACTCTTTGTTACACATTTAATGAY
43541 P A A CGCGCCGAGGATACTCTTTGTTACACATTTAATGAGY
43541 T G A ATAACTCATTAAATGTGTAACAAAGAGTACTTAATAGCTATACCTTCTTTTACAAGACAACATGTGAACAAAACTCAAAGA
43541 T A A ATAACTCATTAAATGTGTAACAAAGAGTATTTAATAGCTATACCTTCTTTTACAAGACAACATGTGAACAAAACTCAAAGA
43541 IS [GA] TTTTTCCTATCTTTGAGTTTTGTTCACATGTTGTCTTGTAAAAGAAGGTATAGCTATTAA[GA]TACTCTTTGTTACACATTTAATGAGTTATGTTGGCTGAAAACCATAAAATGGTGCAAAAT
43590 I S AGAAATGGTGAGCTTTAAGTGGTTTGTAAACCATAAAACACATCATAAAAGTTCTATCTT
43590 P T S CGCGCCGAGGATAGTGTGCCTCCTTCCY
43590 P C S ATGACGTGGCAGACGTAGTGTGCCTCCTTCCY
43590 T T S AGCAGGAAGGAGGCACACTATAGATAGAACTTTTATGATGTGTTTTATGGTTTACAAACCACTTAAAGCTCACCATTTCTT
43590 T C S AGCAGGAAGGAGGCACACTACAGATAGAACTTTTATGATGTGTTTTATGGTTTACAAACCACTTAAAGCTCACCATTTCTT
43590 IS [TC] TTCTCAACAGGTCAGAAGCAAACACATATCTCACAAAGGAAGCAGGAAGGAGGCACACTA[TC]AGATAGAACTTTTATGATGTGTTTTATGGTTTACAAACCACTTAAAGCTCACCATTTCTT
43624 I S CCACTCTCCTGAGACAGTGATGTTCACTTCTGTTATCCAA
43624 P A S CGCGCCGAGGTGTCTCCCATCCATCTTY
43624 P G S ATGACGTGGCAGACCGTCTCCCATCCATCTY
43624 T A S ATGCAAGATGGATGGGAGACATGGATAACAGAAGTGAACATCACTGTCTCAGGAGAGTGGGT
43624 T G S ATGCAAGATGGATGGGAGACGTGGATAACAGAAGTGAACATCACTGTCTCAGGAGAGTGGGT
43624 IS [AG] GTCAGCAGTAGGTGCAGCTTTATTTAATCTCTTTATTCACATGCAAGATGGATGGGAGAC[AG]TGGATAACAGAAGTGAACATCACTGTCTCAGGAGAGTGGGTCTGGGAGCCTGGACCCGAG
43629 I S GGTGCCATCCTAGCCTAAGGGGTCAAGAACT
43629 P C S ATGACGTGGCAGACGTATCCTGGGACTCCCY
43629 P G S CGCGCCGAGGCTATCCTGGGACTCCCY
43629 T C S AGCAGGGAGTCCCAGGATACGTTCTTGACCCCTTAGGCTAGGATGGCACCAA
43629 T G S AGCAGGGAGTCCCAGGATAGGTTCTTGACCCCTTAGGCTAGGATGGCACCAA
43629 IS [CG] GACAGGCTAAATCCACAGTAAGGCCACATCCACGAGGCAACAGCAGGGAGTCCCAGGATA[CG]GTTCTTGACCCCTTAGGCTAGGATGGCACCAAAAATCCCTCTTGCCTTTTAGGCAGGAGA
43632 I S CGGTCTGCCCTGCCTTGCCTACTCTTGA
43632 P G S ATGACGTGGCAGACCTCCCCAAGGTGAGGY
43632 P A S CGCGCCGAGGTTCCCCAAGGTGAGGY

FIGURE 129F

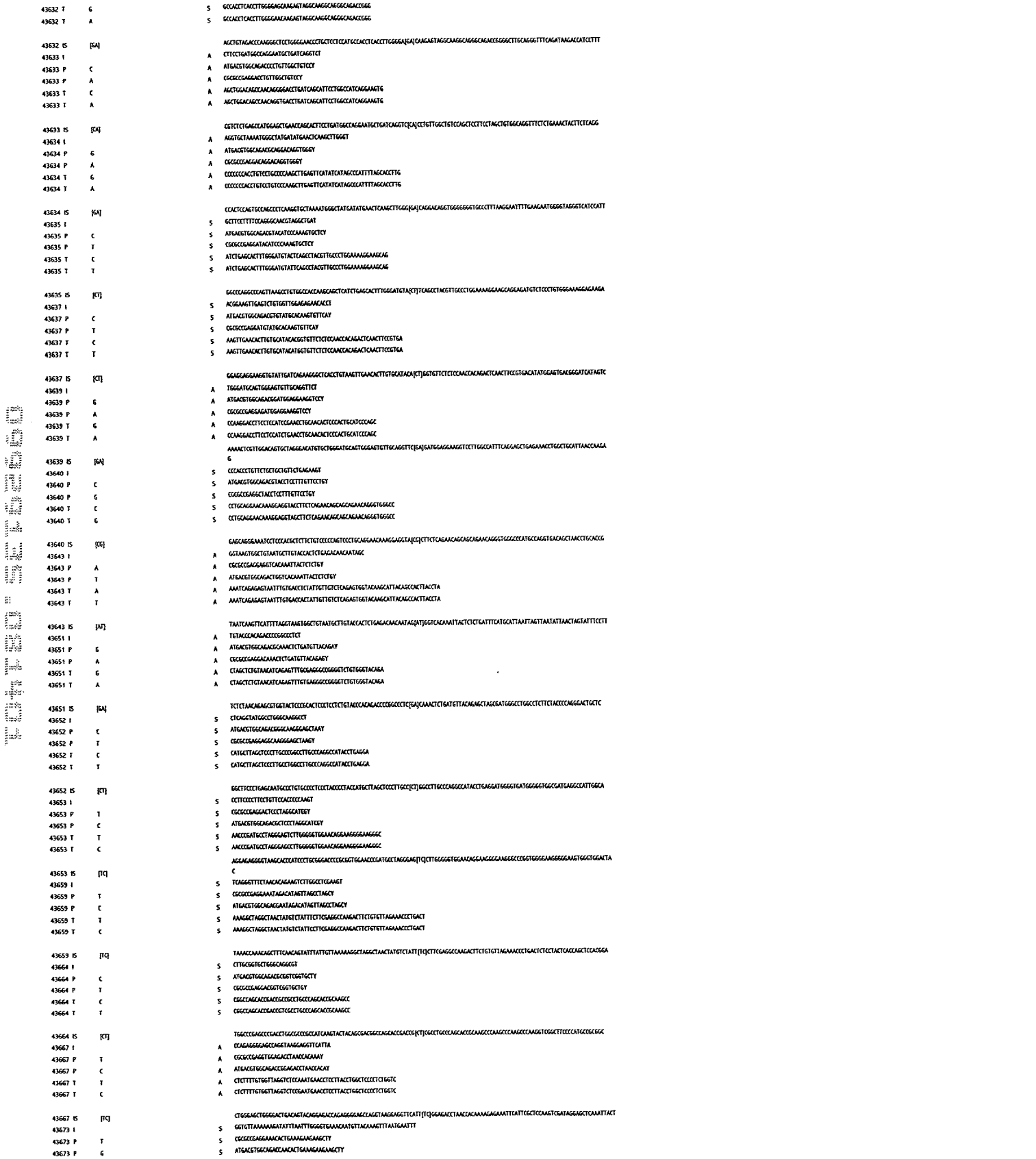
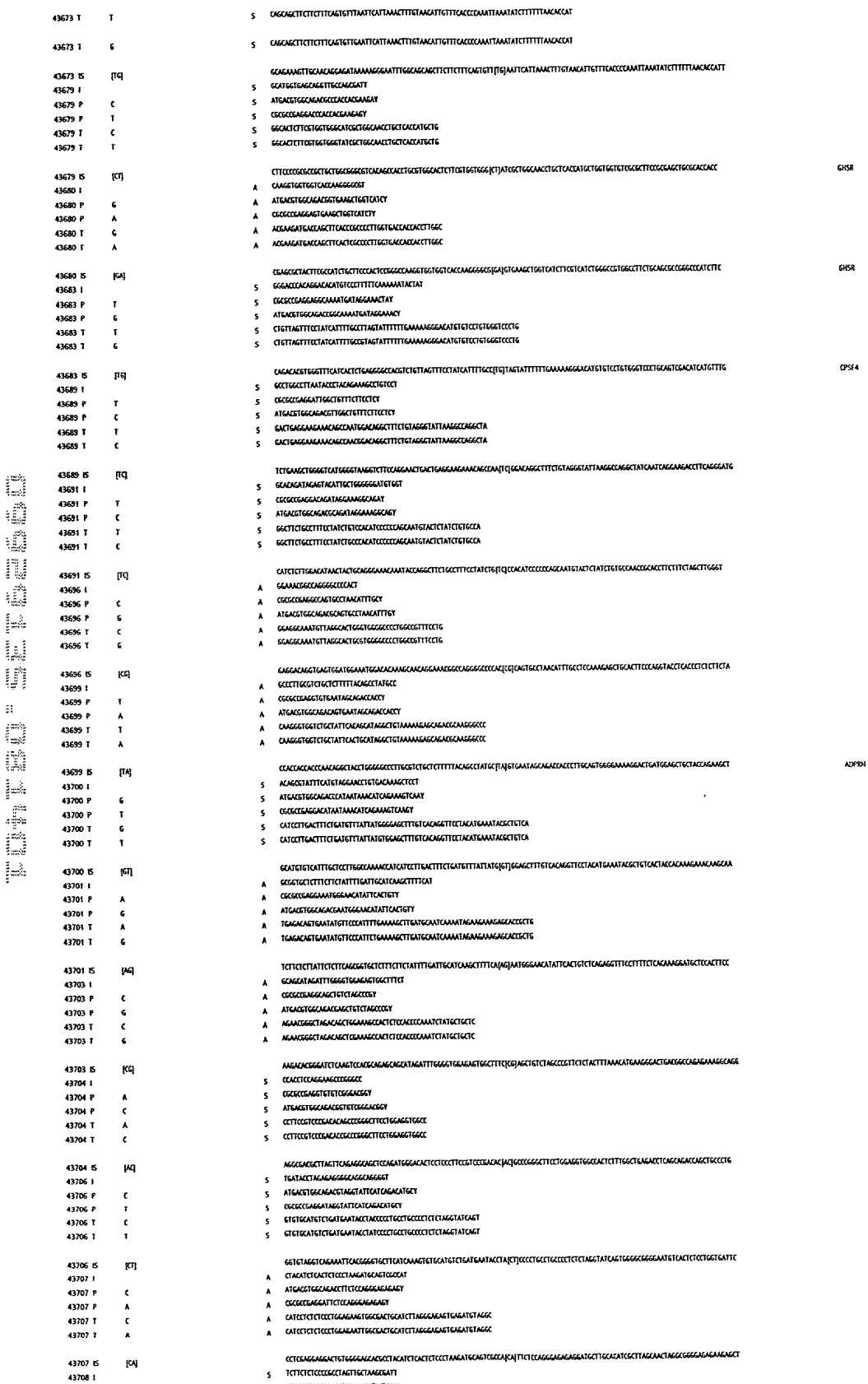


FIGURE 129F



UNDER 37 CFR 1.84(a)(1) - NO SCALE

FIGURE 129F

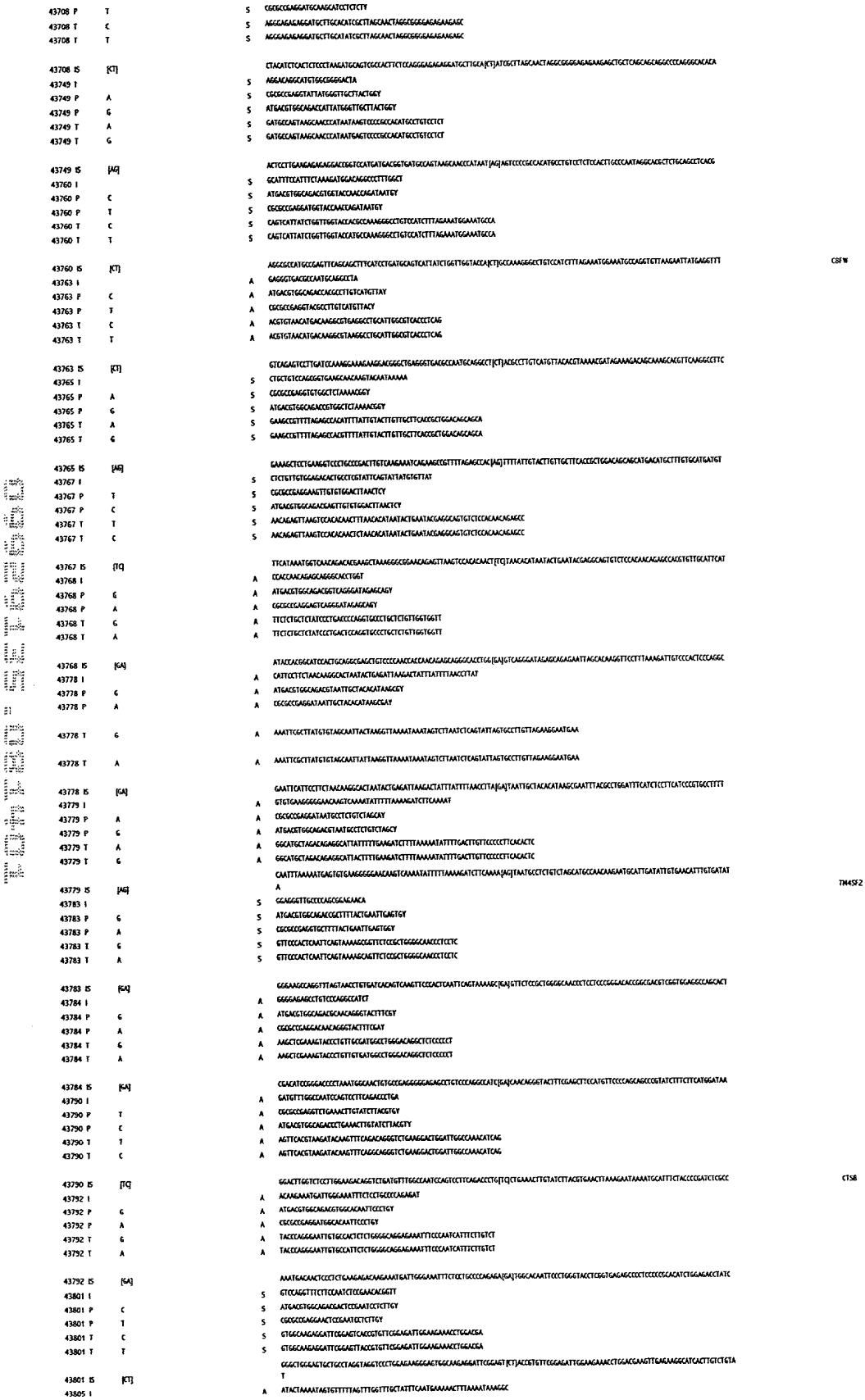


FIGURE 129F

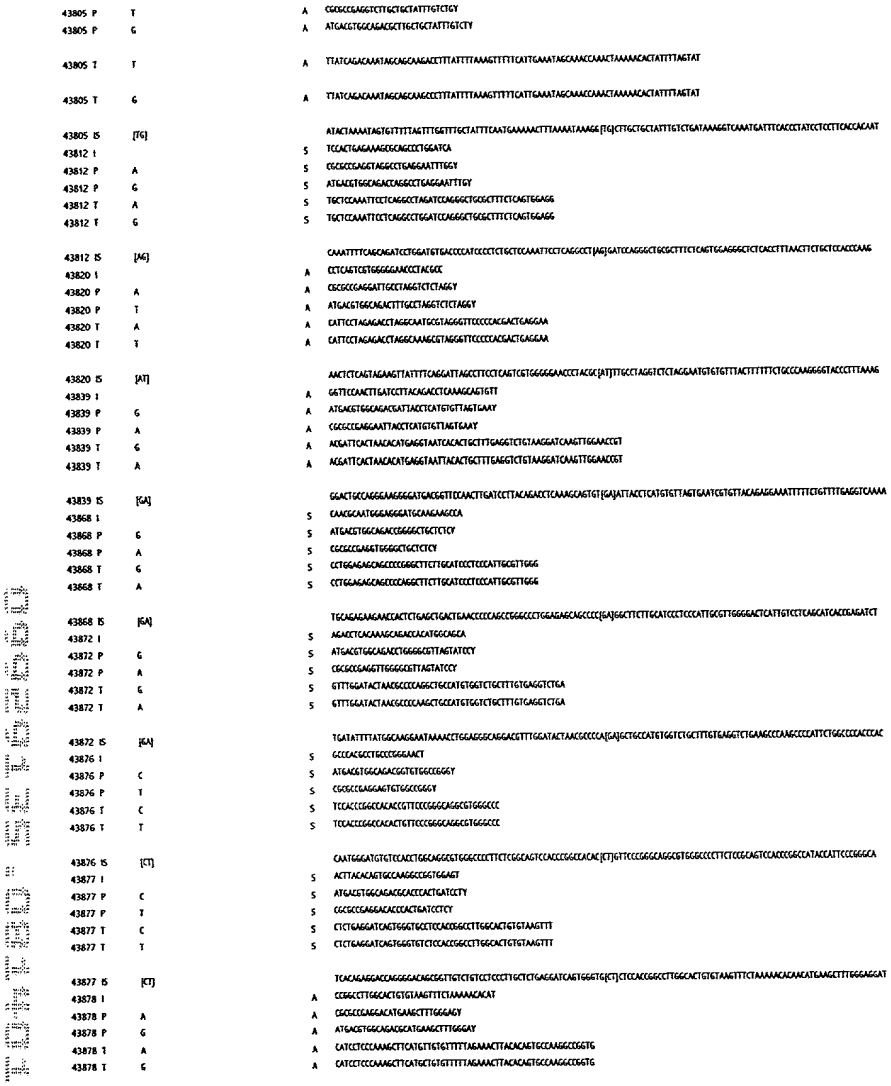

43805 P T A CGCGCCGAGGTCTTGCTGCTATTTGTCTGY
43805 P G A ATGACGTGGCAGACGCTTGCTGCTATTTGTCTY
43805 T T A TTATCAGACAAATAGCAGCAAGACCTTTATTTTAAAGTTTTTCATTGAAATAGCAAACCAAACTAAAAACACTATTTTAGTAT
43805 T G A TTATCAGACAAATAGCAGCAAGCCCTTTATTTTAAAGTTTTTCATTGAAATAGCAAACCAAACTAAAAACACTATTTTAGTAT
43805 IS [TG] ATACTAAAATAGTGTTTTTAGTTTGGTTTGCTATTTCAATGAAAAACTTTAAAATAAAGG[TG]CTTGCTGCTATTTGTCTGATAAAGGTCAAATGATTTCACCCTATCCTCCTTCACCACAAT
43812 I S TCCACTGAGAAAGGCCAGCCCTGGATCA
43812 P A S CGCGCCGAGGTAGGCCTGAGGAATTTGGY
43812 P G S ATGACGTGGCAGACAGGCCTGAGGAATTTGY
43812 T A S TGCTCCAAATTCCTCAGGCCTAGATCCAGGGCTGCGCTTTCTCAGTGGAGG
43812 T G S TGCTCCAAATTCCTCAGGCCTGGATCCAGGGCTGCGCTTTCTCAGTGGAGG
43812 IS [AG] CAAATTTTCAGCAGATCCTGGATGTGACCCCATCCCCTCTGCTCCAAATTCCTCAGGCCT[AG]GATCCAGGGCTGCGCTTTCTCAGTGGAGGGCTCTCACCTTTAACTTCTGCTCCACCCAAG
43820 I A CCTCAGTCGTGGGGGAACCCTACGCC
43820 P A A CGCGCCGAGGATTGCCTAGGTCTCTAGGY
43820 P T A ATGACGTGGCAGACTTTGCCTAGGTCTCTAGGY
43820 T A A CATTCCTAGAGACCTAGGCAATGCGTAGGGTTCCCCCACGACTGAGGAA
43820 T T A CATTCCTAGAGACCTAGGCAAAGCGTAGGGTTCCCCCACGACTGAGGAA
43820 IS [AT] AACTCTCAGTAGAAGTTATTTTCAGGATTAGCCTTCCTCAGTCGTGGGGGAACCCTACGC[AT]TTGCCTAGGTCTCTAGGAATGTGTGTTTACTTTTTTCTGCCCAAGGGGTACCCTTTAAAG
43839 I A GGTTCCAACTTGATCCTTACAGACCTCAAAGCAGTGTT
43839 P G A ATGACGTGGCAGACGATTACCTCATGTGTTAGTGAAY
43839 P A A CGCGCCGAGGAATTACCTCATGTGTTAGTGAAY
43839 T G A ACGATTCACTAACACATGAGGTAATCACACTGCTTTGAGGTCTGTAAGGATCAAGTTGGAACCGT
43839 T A A ACGATTCACTAACACATGAGGTAATTACACTGCTTTGAGGTCTGTAAGGATCAAGTTGGAACCGT
43839 IS [GA] GGACTGCCAGGGAAGGGGATGACGGTTCCAACTTGATCCTTACAGACCTCAAAGCAGTGT[GA]ATTACCTCATGTGTTAGTGAATCGTGTTACAGAGGAAATTTTTCTGTTTTGAGGTCAAAA
43868 I S CAACGCAATGGGAGGGATGCAAGAAGCCA
43868 P G S ATGACGTGGCAGACCGGGGCTGCTCTCY
43868 P A S CGCGCCGAGGTGGGGCTGCTCTCY
43868 T G S CCTGGAGAGCAGCCCCGGGCTTCTTGCATCCCTCCCATTGCGTTGGG
43868 T A S CCTGGAGAGCAGCCCCAGGCTTCTTGCATCCCTCCCATTGCGTTGGG
43868 IS [GA] TGCAGAGAAGAACACTCTGAGCTGACTGAACCCCCAGCCGGCCCTGGAGAGCAGCCCC[GA]GGCTTCTTGCATCCCTCCCATTGCGTTGGGGACTCATTGTCCTCAGCATCACCGAGATCT
43872 I S AGACCTCACAAAGCAGACCACATGGCAGCA
43872 P G S ATGACGTGGCAGACCYGGGGCGTTAGTATCCY
43872 P A S CGCGCCGAGGTTGGGGCGTTAGTATCCY
43872 T G S GTTTGGATACTAACGCCCCAGGCTGCCATGTGGTCTGCTTTGTGAGGTCTGA
43872 T A S GTTTGGATACTAACGCCCCAAGCTGCCATGTGGTCTGCTTTGTCAGGTCTGA
43872 IS [GA] TGATATTTTATGGCAAGGAATAAAACCTGGAGGGCAGGACGTTTGGATACTAACGCCCCA[GA]GCTGCCATGTGGTCTGCTTTGTGAGGTCTGAAGCCCAAGCCCCATTCTGGCCCCACCCAC
43876 I S GCCCACGCCTGCCCGGGAACT
43876 P C S ATGACGTGGCAGACGGTGTGGCCGGGY
43876 P T S CGCGCCGAGGAGTGTGGCCGGGY
43876 T C S TCCACCCGGCCACACCGTTCCCGGGCAGGCGTGGGCCC
43876 T T S TCCACCGGCCACACTGTTCCCGGGCAGGCGTGGGCCC
43876 IS [CT] CAATGGGATGTGTCCACCTGGCAGGCGTGGGCCCTTCTCGGCAGTCCACCCGGCCACAC[CT]GTTCCCGGGCAGGCGTGGGCCCCTTCTCCCGCAGTCCACCCGGCCATACCATTCCCGGGCA
43877 I S ACTTACACAGTGCCAAGGCCGGTGGAGT
43877 P C S ATGACGTGGCAGACGCACCCACTGATCCTY
43877 P T S CGCGCCCAGGACACCCACTGATCCTCY
43877 T C S CTCTGAGGATCAGTGGGTGCCTCCACCGGCCTTGGCACTGTGTAAGTTT
43877 T T S CTCTGAGGATCAGTGGGTGTCTCCACCGGCCTTGGCACTGTGTAAGTTT
43877 IS [CT] TCACAGAGGACCAGGGGACAGCGGTTGTCTGTCCTCCCTTGCTCTGAGGATCAGTGGGTG[CT]CTCCACCGGCCTTGGCACTGTGTAAGTTTCTAAAAACACAACATGAAGCTTTGGGAGGAT
43878 I A CCGGCCTTGGCACTGTGTAAGTTTCTAAAAACACAT
43878 P A A CGCGCCCAGGACATGAAGCTTTGGGAGY
43878 P G A ATGACGTGGCAGACGCATGAAGCTTTGGGAY
43878 T A A CATCCTCCCAAAGCTTCATGTTGTGTTTTAGAAACTTACACAGTGCCAAGCCCGGTG
43878 T G A CATCCTCCCAAAGCTTCATGCTGTGTTTTTAGAAACTTACACAGTGCCAAGCCCGGTG
43878 IS [AG] CTCTGAGGATCAGTGGGTGCCTCCACCGGCCTTGGCACTGTGTAAGTTTCTAAAAACACA[AG]CATGAAGCTTTGGGAGGATGTGGGGCACAGGTCCCAGTCCCCTGAGGGCAGATGCTGCCA
43880 I S GCAGGGTGGGGGAACAATGACCACAGC
43880 P T S CGCGCCGAGGAACAGACTCGAGGGAY
43880 P A S ATGACGTGGCAGACTGACAGACTCGAGGAY
43880 T T S CAACTCCCTCGAGTCGTCACTGTGGTCATTGTTCCCCCACCCTGCCC
43880 T A S CAACTCCCTCGAGTCGTCACTGTGGTCATTGTTCCCCCACCCTGCCC
43880 IS [TA] CTGGTCCCTGGGGGCTGGACCCAGGCTCCTAAATAAACCAGCAACTCCCTCGAGTCTGTC[TA]CTGTGGTCATTGTTCCCCCACCCTGCCCTGTCCTCAGCCCCGCCCAGGAGAGAGAGCTG
43883 I S CCCATACTGTTTGGTCTCGTTCTTGCAGTTTGCTTGT
43883 P C S ATGACGTGGCAGACGAAGAGGGCCAGAGCY
43883 P G S CGCGCCCAGGCAACAGGGCCAGAGCY
43883 T C S TGGGGCTCTGGCCCTGTTCCAAGCAAACTGCAAGAACGAGACCAAACAGTATGGGCA
43883 T G S TGGGGCTCTGGCCCTGTTGCAAGCAAACTGCAAGAACGAGACCAAACAGTATGGGCA
43883 IS [CG] GAGTAAGGACTGGCGCTGCTCACTCCTGCTGACAATCTCATGTGGGGCTCTGGCCCTGTT[CG]CAAGCAAACTGCAAGAACGAGACCAAACAGTATGGGCAGGAACCAGGGATGAGTGACAAG
43887 I S CCTAAGATGGATCTGTTGAGAGTTTCTTCAATCAAACTAAGAGAAT
43887 P C S ATGACGTGGCAGACGCACAGAAACATCTGTATATGAY
43887 P T S CGCGCCGAGGACACAGAAACATCTGTATATGAY
43887 T C S CAGGTCATATACAGATGTTTCTGTGCTTCTCTTAGTTTGATTGAAGAAACTCTCAACAGATCCATCTTAGGAA
43887 T T S CAGGTCATATACAGATGTTTCTGTGTTTCTCTTAGTTTGATTGAAGAAACTCTCAACAGATCCATCTTAGGAA
43887 IS [CT] GGTGACAAGGAGAGAAGAGGAGGAGGAAGCTACCCCAGGTCATATACAGATGTTTCTGTG[CT]TTCTCTTAGTTTGATTGAAGAAACTCTCAACAGATCCATCTTAGGAAAAATGTTGGTATC
43889 I S ACCTGAGAGTTTGGTTTCTGGTTAAATCCCTGAATGGCT
43889 P C S ATGACGTGGCAGACGGAAAATCCCAATTAACAAATAGGY
43889 P T S CGCGCCGAGGAGAAAATCCCAATTAACAAATAGGY
43889 T C S AAGTCCTATTTGTTAATTGGGATTTTCCGCCATTCAGGGATTAACCAGAAACCAAACTCTCAGGTCT
43889 T T S AAGTCCTATTTGTTAATTGGGATTTTCTGCCATTCAGGGATTAACCAGAAACCAAACTCTCAGGTCT
43889 IS [CT] CTGGGCTCCTCAGGAGGGCAGAGGTGAAATCCAAGTCCTATTTGTTAATTGGGATTTTC[CT]GCCATTCAGGGATTTAACCAGAAACCAAACTCTCAGGTCTGTCCCAGGCCTGCACTGGCT
43892 I A AGTTTTGTAATAGAATGATGCTTTGAGATATTGGTCAAAAGACATATTAACCT
43892 P G A ATGACGTGGCAGACGAAAGGACAGCAGTGTAGY
43892 P C A CGCGCCGAGGCAAAGGACAGCAGTGTAGY
43892 T G A CTTACTACACTGCTGTCCTTTCGGTTAATATGTCTTTTGACCAATATCTCAAAGCATCATTCTATTACAAAACTAG
43892 T C A CTTACTACACTGCTGTCCTTTGGGTTAATATGTCTTTTGACCAATATCTCAAAGCATCATTCTATTACAAAACTAG

FIGURE 129F

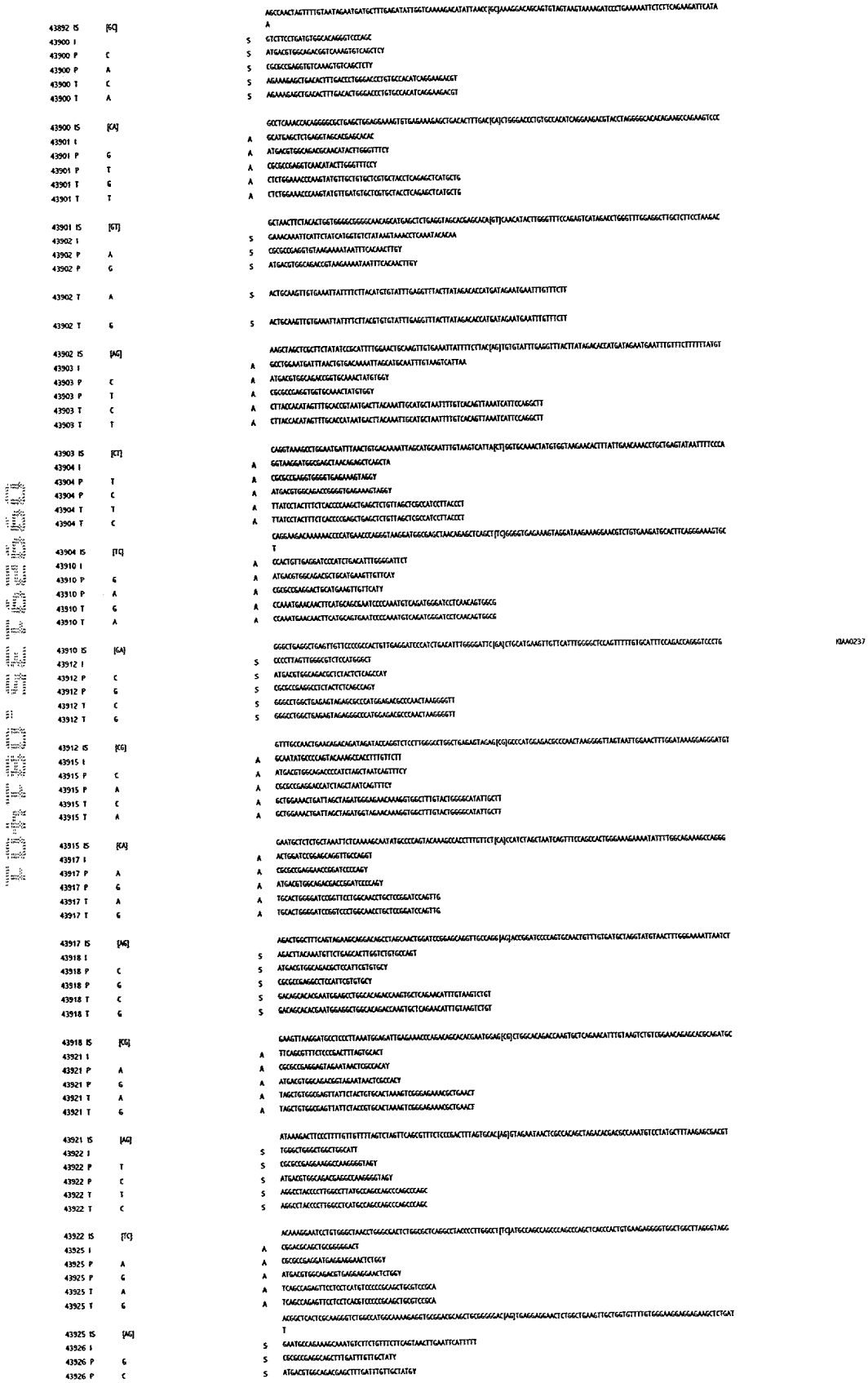
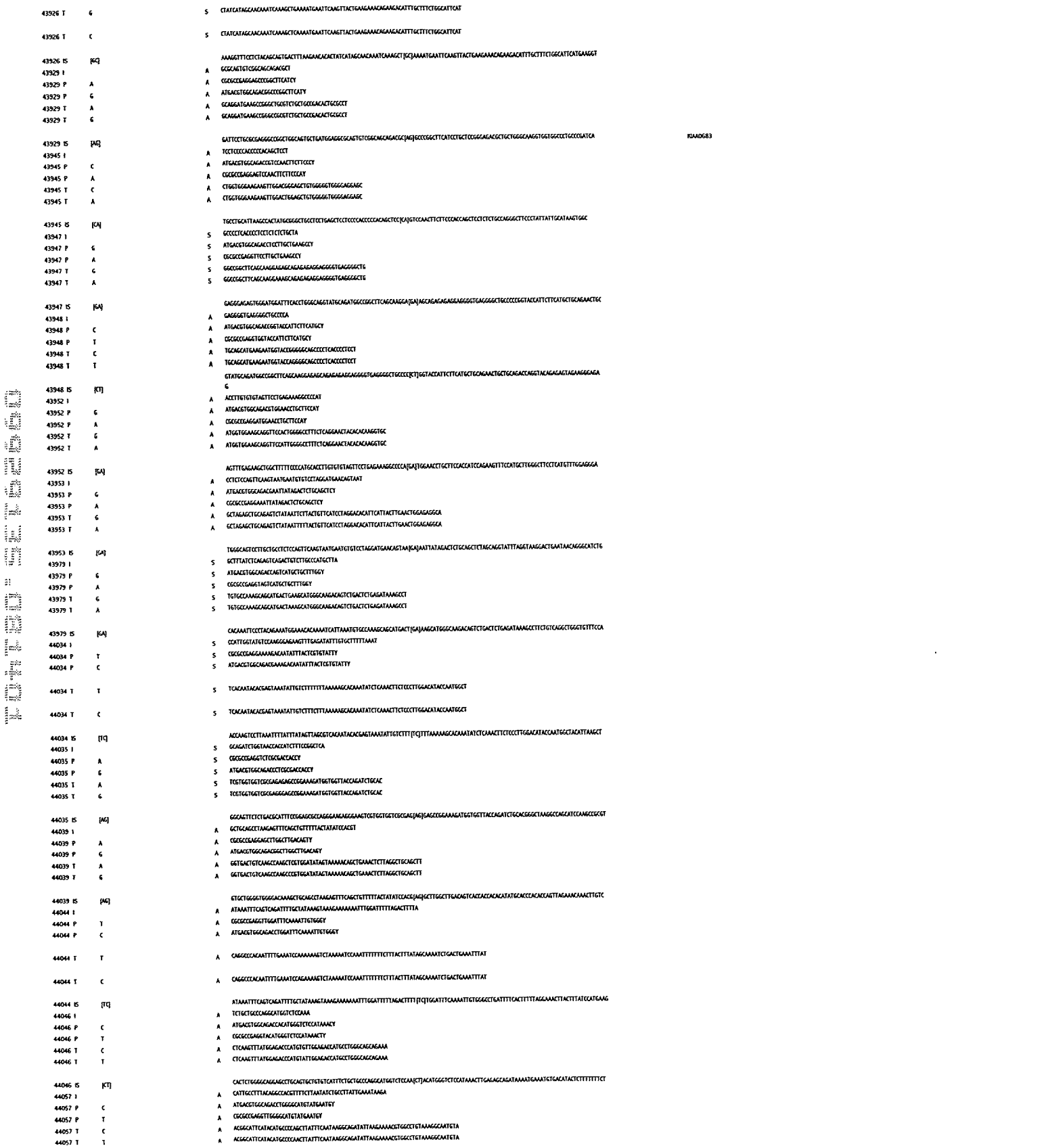
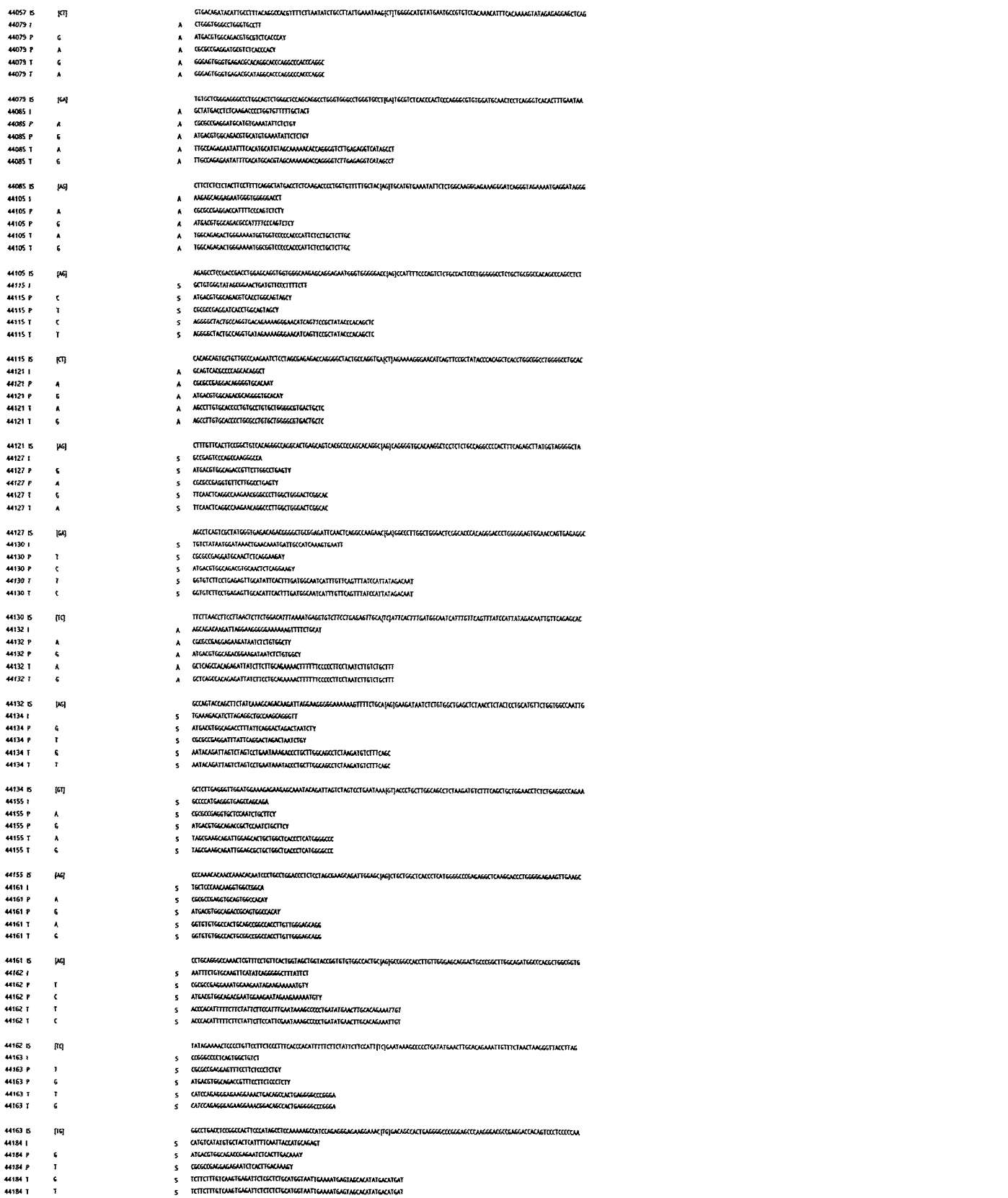


FIGURE 129F


43926 T G S CTATCATAGCAACAAATCAAAGCTGAAAATGAATTCAAGTTACTGAAGAAACAGAAGACATTTGCTTTCTGGCATTCAT
43926 T C S CTATCATAGCAACAAATCAAAGCTCAAAATGAATTCAAGTTACTGAAGAAACAGAAGACATTTGCTTTCTGGCATTCAT
43926 IS [GC] AAAGGTTTCCTCTACAGCAGTGACTTTAAGAACACACTATCATAGCAACAAATCAAAGCT[GC]AAAATGAATTCAAGTTACTGAAGAAACAGAAGACATTTGCTTTCTGGCATTCATGAAGGT
43929 I A GCGCAGTGTCGGCAGCAGACGCT
43929 P A A CGCGCCGAGGAGCCCGGCTTCATCY
43929 P G A ATGACGTGGCAGACGGCCCGGCTTCATY
43929 T A A GCAGGATGAAGCCGGGCTGCGTCTGCTGCCGACACTGCGCCT
43929 T G A GCAGGATGAAGCCGGGCCGCGTCTGCTGCCGACACTGCGCCT
43929 IS [AG] GATTCCTGCGCGAGGGCCGGCTGGCAGTGCTGATGGAGGCGCAGTGTCGGCAGCAGACGC[AG]GCCCGGCTTCATCCTGCTCCGGGCAGACGCTGCTGGGCAAGGTGGTGGCCCTGCCCGATCA KIAA0683
43945 I T A TCCTCCCCACCCCCACAGCTCCT
43945 P C A ATGACGTGGCAGACCGTCCAACTTCTTCCCY
43945 P A A CGCGCCGAGGAGTCCAACTTCTTCCCAY
43945 T C A CTGGTGGGAAGAAGTTGGACGGGAGCTGTGGGGGTGGGGCAGGAGC
43945 T A A CTGGTGGGAAGAAGTTGGACTGGAGCTGTGGGGGTGGGGAGGAGC
43945 IS [CA] TGCCTGCATTAAGCCACTATGCGGGCTGCCTCCTGAGCTCCTCCCCACCCCCACAGCTCC[CA]GTCCAACTTCTTCCCCACCAGCTCCTCTCTGCCAGGGCTTCCCTATTATTGCATAAGTGGC
43947 I S GCCCCTCACCCCTCCTCCTCTCTGCTA
43947 P G S ATGACGTGGCAGACCTCCTTGCTGAAGCCY
43947 P A S CGCGCCGAGGTTCCTTGCTGAAGCCY
43947 T G S GGCCGGCTTCAGCAAGGAGAGCAGAGAGAGGAGGGGTGAGGGGCTG
43947 T A S GGCCGGCTTCAGCAAGGAAAGCAGAGAGAGGAGGGGTGAGGGGCTG
43947 IS [GA] GAGGGAGAGTGGGATGGATTTCACCTGGGCAGGTATGCAGATGGCCGGCTTCAGCAAGGA[GA]AGCAGAGAGAGGAGGGGTGAGGGGCTGCCCCCGGTACCATTCTTCATGCTGCAGAACTGC
43948 I A GAGGGGTGAAGGGCTGCCCCA
43948 P C A ATGACGTGGCAGACCGGTACCATTCTTCATGCY
43948 P T A CGCGCCGAGGTGGTACCATTCTTCATGCY
43948 T C A TGCAGCATGAAGAATGGTACCGGGGGCAGCCCCTCACCCCTCCT
43948 T T A TGCAGCATGAAGAATGGTACCAGGGGCAGCCCCTCACCCCTCCT
43948 IS [CT] GTATGCAGATGGCCGGCTTCAGCAAGGAGAGCAGAGAGAGGAGGGGTGAGGGGCTGCCCCC[CT]GGTACCATTCTTCATGCTGCAGAACTGCTGCAGACCAGGTACAGACAGTAGAAGGCAGA G
43952 I A ACCTTGTGTGTAGTTCCTGAGAAAGGCCCCAT
43952 P G A ATGACGTGGCAGACGTGGAACCTGCTTCCAY
43952 P A A CGCGCCGAGGATGGAACCTGCTTCCAY
43952 T G A ATGGTGGAAGCAGGTTCCACTGGGGCCTTTCTCAGGAACTACACACAAGGTGC
43952 T A A ATGGTGGAAGCAGGTTCCATTGGGGCCTTTCTCAGGAACTACACACAAGGTGC
43952 IS [GA] AGTTTGAGAAGCTGGCTTTTTCCCCATGCACCTTGTGTGTAGTTCCTGAGAAAGGCCCCA[GA]TGGAACCTGCTTCCACCATCCAGAAGTTTCCATGCTTGGGCTTCCTCATGTTTGGAGGGA
43953 I A CCTCTCCAGTTCAAGTAATGAATGTGTCCTAGGATGAACAGTAAT
43953 P G A ATGACGTGGCAGACGAATTATAGACTCTGCAGCTCY
43953 P A A CGCGCCGAGGAAATTATAGACTCTGCAGCTCY
43953 T G A GCTAGAGCTGCAGAGTCTATAATTCTTACTGTTCATCCTAGGACACATTCATTACTTGAACTGGAGAGGCA
43953 T A A GCTAGAGCTGCAGAGTCTATAATTTTTACTGTTCATCCTAGGACACATTCATTACTTGAACTGGAGAGGCA
43953 IS [GA] TGGGCAGTCCTTGCTGCCTCTCCAGTTCAAGTAATGAATGTGTCCTAGGATGAACAGTAA[GA]AATTATAGACTCTGCAGCTCTAGCAGGTATTTAGGTAAGGACTGAATAACAGGGCATCTG
43979 I S GCTTTATCTCAGAGTCAGACTGTCTTGCCCATGCTTA
43979 P G S ATGACGTGGCAGACCAGTCATGCTGCTTTGGY
43979 P A S CGCGCCGAGGTAGTCATGCTGCTTTGGY
43979 T G S TGTGCCAAAGCAGCATGACTGAAGCATGGGCAAGACAGTCTGACTCTGAGATAAAGCCT
43979 T A S TGTGCCAAAGCAGCATGACTAAAGCATGGGCAAGACAGTCTGACTCTGAGATAAAGCCT
43979 IS [GA] CACAAATTCCCTACAGAAATGGAAACACAAAATCATTAAATGTGCCAAAGCAGCATGACT[GA]AAGACATGGGCAAGACAGTCTGACTCTGAGATAAAGCCTTCTGTCAGGCTGGGTGTTTCCA
44034 I S CCATTGGTATGTCCAAGGGAGAAGTTTGAGATATTTGTGCTTTTTAAAT
44034 P T S CGCGCCGAGGAAAAGACAATATTTACTCGTGTATTY
44034 P C S ATGACGTGGCAGACGAAAGACAATATTTACTCGTGTATTY
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44034 T C S TCACAATACACGAGTAAATATTGTCTTTCTTTAAAAAGCACAAATATCTCAAACTTCTCCCTTGGAACATACCAATGGCT
44034 IS [TC] ACCAAGTCCTTAAATTTTATTTATAGTTAGCGTCACAATACACGAGTAAATATTGTCTTT[TC]TTTAAAAAGCACAAATATCTCAAACTTCTCCCTTGGACATACCAATGGCTACATTAAGCT
44035 I S GCAGATCTGGTAACCACCATCTTTCCGGCTCA
44035 P A S CGCGCCGAGGTCTCGCGACACCY
44035 P G S ATGACGTGGCAGACCCTCGCGACCACCY
44035 T A S TCGTGGTGGTCGCGAGGAGCCGGAAAGATGGTGGTTACCAGATCTGCAC
44035 T G S TCGTGGTGGTCGCGAGGAGCCGGAAAGATGGTGGTTACCAGATCTGCAC
44035 IS [AG] GGCAGTTCTCTGACGCATTTCCGGAGCGCCAGGGAACAGGGAAGTCGTGGTGGTCGCGCAG[AG]GAGCCGGAAAGATGGTGGTTACCAGATCTGCAGCGGGCTAAGGCCAGCATCCAAGCCGCGT
44039 I A GCTGCAGCCTAAGAGTTTCAGCTGTTTTACTATATCCACGT
44039 P A A CGCGCCGAGGAGCTTGGCTTGACAGTY
44039 P G A ATGACGTGGCAGACGGCTTGGCTTGACAGY
44039 T A A GGTGACTGTCAAGCCAAGCTCGTGGATATAGTAAAAACAGCTGAAACTCTTAGGCTGCAGCTT
44039 T G A GGTGACTGTCAAGCCAAGCCCGTGGATATAGTAAAAACAGCTGAAACTCTTAGGCTGCAGCTT
44039 IS [AG] GTGCTGGGGTGGGGACAAAGCTGCAGCCTAAGAGTTTCAGCTGTTTTTACTATATCCACG[AG]GCTTGGCTTGACAGTCACCACCACACATATGCACCCACACCAGTTAGAAACAAACTTGTC
44044 I A ATAAATTTCAGTCAGATTTTGCTATAAAGTAAAGAAAAAAATTTGGATTTTTAGACTTTA
44044 P T A CGCGCCGAGGTTGGATTTCAAAATTGTGGGY
44044 P C A ATGACGTGGCAGACCTGGATTTCAAAATTGTGGGY
44044 T T A CAGGCCCACAATTTTGAAATCCAAAAAAGTCTAAAAATCCAAATTTTTTTCTTTACTTTATAGCAAAATCTGACTGAAATTTAT
44044 T C A CAGGCCCACAATTTTGAAATCCAGAAAAGTCTAAAAATCCAAATTTTTTTCTTTACTTTATAGCAAAATCTGACTGAAATTTAT
44044 IS [TC] ATAAATTTCAGTCAGATTTTGCTATAAAGTAAAGAAAAAAATTTGGATTTTTAGACTTTT[TC]TGGATTTCAAAATTGTGGGCCTGATTTTCACTTTTTAGGAAACTTACTTTATCCATGAAG
44046 I A TCTGCTGCCCAGGCATGGTCTCCAAA
44046 P C A ATGACGTGGCAGACCACATGGGTCTCCATAAACY
44046 P T A CGCGCCGAGGTACATGGGTCTCCATAAACTY
44046 T C A CTCAAGTTTATGGAGACCATGTGTTGGAGACCATGCCTGGGCAGCAGAAA
44046 T T A CTCAAGTTTATGGAGACCATGTATTGGAGACCATGCCTGGGCAGCAGAAA
44046 IS [CT] CACTCTGGGGCAGGAGCCTGCAGTGCTGTGTCATTTCTGCTGCCCAGGCATGGTCTCCAA[CT]ACATGGGTCTCCATAAACTTGAGAGCAGATAAAATGAAATGTGACATACTCTTTTTTTCT
44057 I A CATTGCCTTTACAGGCCACGTTTTCTTAATATCTGCCTTATTGAAATAAGA
44057 P C A ATGACGTGGCAGACCTGGGGCATGTATGAATGY
44057 P T A CGCGCCGAGGTTGGGGCATGTATGAATGY
44057 T C A ACGGCATTCATACATGCCCCAGCTTATTTCAATAAGGCAGATATTAAGAAAACGTGGCCTGTAAAGGCAATGTA
44057 T T A ACGGCATTCATACATGCCCCAACTTATTTCAATAAGGCAGATATTAAGAAAACGTGGCCTGTAAAGGCAATGTA



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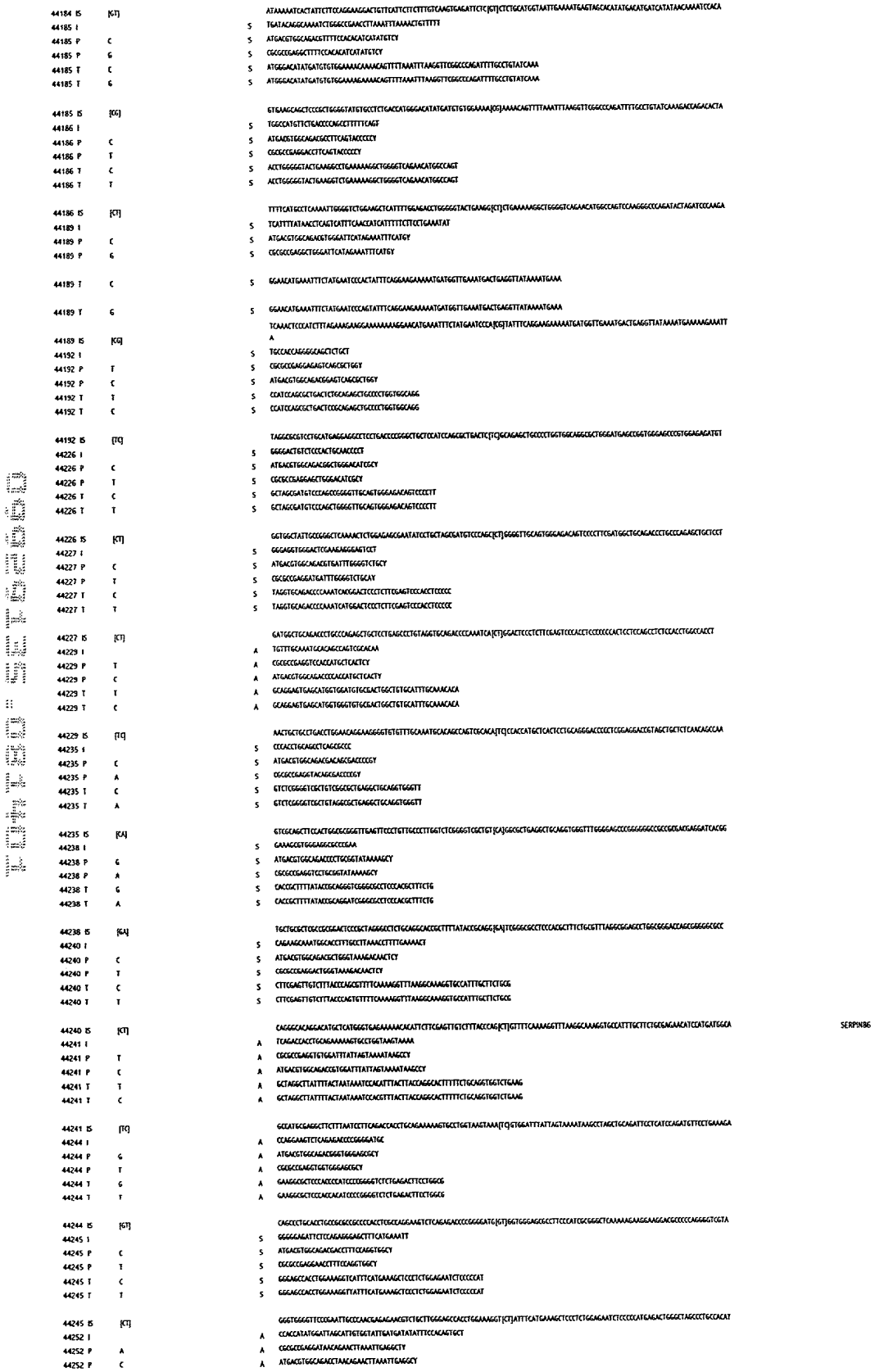


FIGURE 129F

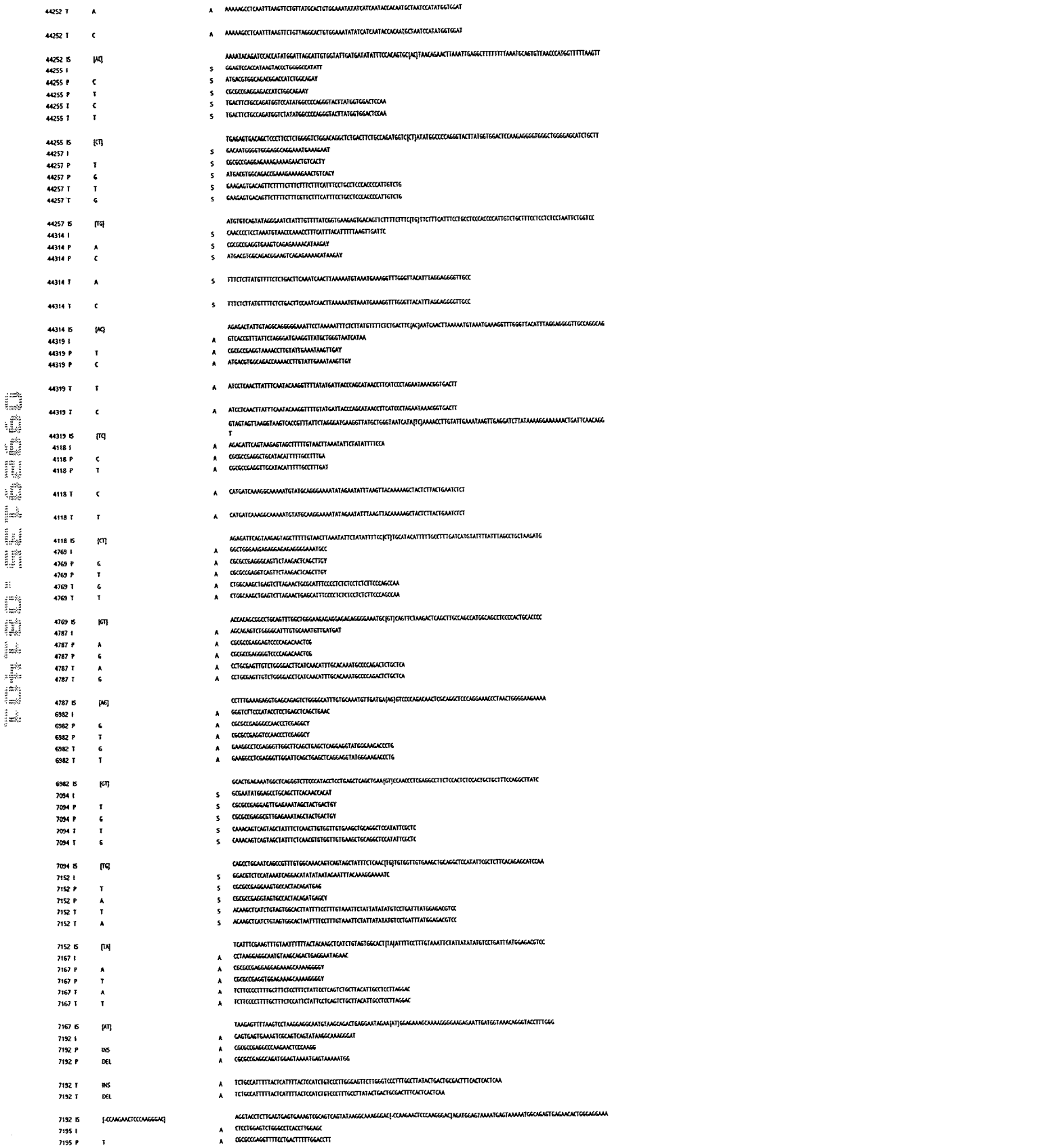

44252 T A A AAAAAGCCTCAATTTAAGTTCTGTTATGCACTGTGGAAATATATCATCAATACCACAATGCTAATCCATATGGTGGAT
44252 T C A AAAAAGCCTCAATTTAAGTTCTGTTAGGCACTGTGGAAATATATCATCAATACCACAATGCTAATCCATATGGTGGAT
44252 IS [AC] AAATACAGATCCACCATATGGATTAGCATTGTGGTATTGATGATATATTTCCACAGTGC[AC]TAACAGAACTTAAATTGAGGCTTTTTTTTAAATGCAGTGTTAACCCATGGTTTTTAAGTT
44255 I S GGAGTCCACCATAAGTACCCTGGGGCCATATT
44255 P C S ATGACGTGGCAGACGGACCATCTGGCAGAT
44255 P T S CGCGCCGAGGAGACCATCTGGCAGAAY
44255 I C S TGACTTCTGCCAGATGGTCCATATGGCCCCAGGGTACTTATGGTGGACTCCAA
44255 T T S TGACTTCTGCCAGATGGTCTATATGGCCCCAGGGTACTTATGGTGGACTCCAA
44255 IS [CT] TGAGAGTGACAGCTCCCTTCCTCTGGGGTCTGGACAGGCTCTGACTTCTGCCAGATGGTC[CT]ATATGGCCCCAGGGTACTTATGGTGGACTCCAAGAGGGGTGGGCTGGGGAGGATCTGCTT
44257 I S GACAATGGGGTGGGAGGCAGGAAATGAAAGAAT
44257 P T S CGCGCCGAGGAGAAAGAAAGAACTGTCACTY
44257 P G S ATGACGTGGCAGACGGAAAGAAAAGAACTGTCACY
44257 T T S GAAGAGTGACAGTTCTTTTCTTTCTTTCTTTCATTTCCTGCCTCCCACCCCATTGTCTG
44257 T G S GAAGAGTGACAGTTCTTTTCTTTCGTTCTTTCATTTCCTGCCTCCCACCCCATTGTCTG
44257 IS [TG] ATGTGTCAGTATAGGGAATCTATTTGTTTTATCGGTGAAGAGTGACAGTTCTTTTCTTTC[TG]TTCTTTCATTTCCTGCCTCCCACCCCATTGTCTGCTTTCCTCCTCCTCCTAATTCTGGTCC
44314 I S CAACCCCTCCTAAATGTAACCCAAACCTTTCATTTACATTTTTAAGTTGATTC
44314 P A S CGCGCCGAGGTGAAGTCAGAGAAAACATAAGAY
44314 P C S ATGACGTGGCAGACGGAAGTCAGAGAAAACATAAGAY
44314 T A S TTTCTCTATGTTTTCTCTGACTTCAAATCAACTTAAAAATGTAAATGAAAGGTTTGGGTTACATTTAAGAGGGGTTGCC
44314 T C S TTTCTCTATGTTTTCTCTGACTTCCAATCAACTTAAAAATGTAAATGAAAGGTTTGGGTTACATTTAGGAGGGGTTGCC
44314 IS [AC] AGAGACTATTGTAGGCAGGGGGAAATTCCTAAAAATTTCTCTTATGTTTTCTCTGACTTC[AC]AATCAACTTAAAAATGTAAATGAAAGGTTTGGGTTACATTTAGGAGGGGTTGCCAGGCAG
44319 I A GTCACCGTTTATTCTAGGGATGAAGGTTATGCTGGGTAATCATAA
44319 P T A CGCGCCGAGGTAAAACCTTGTATTGAAATAAGTTGAY
44319 P C A ATGACGTGGCAGACGAAAACCTTGTATTGAAATAAGTTGY
44319 T T A ATCCTCAACTTATTTCAATACAAGGTTTTATATGATTACCCAGCATAACCTTCATCCCTAGAATAAACGGTGACTT
44319 T C A ATCCTCAACTTATTTCAATACAAGGTTTTGTATGATTACCCAGCATAACCTTCATCCCTAGAATAAACGGTGACTT
44319 IS [TC] GTAGTAGTTAAGGTAAGTCACCGTTTATTCTAGGGATGAAGGTTATGCTGGGTAATCATA[TC]AAAACCTTGTATTGAAATAAGTTGAGGATCTTATAAAAGGAAAAAACTGATTCAACAGG T
4118 I A AGACATTCAGTAAGAGTAGCTTTTTGTAACTTAAATATTCTATATTTTCCA
4118 P C A CGCGCCGAGGCTGCATACATTTTTGCCTTTGA
4118 P T A CGCGCCGAGGTTGCATACATTTTTGCCTTTGAT
4118 T C A CATGATCAAAGGCAAAAATGTATGCAGGGAAAATATAGAATATTTAAGTTACAAAAAGCTACTCTTACTGAATCTCT
4118 T T A CATGATCAAAGGCAAAAATGTATGCAAGGAAAATATAGAATATTTAAGTTACAAAAAGCTACTCTTACTGAATCTCT
4118 IS [CT] AGAGATTCAGTAAGAGTAGCTTTTTGTAACTTAAATATTCTATATTTTCC[CT]TGCATACATTTTTGCCTTTGATCATGTATTTTATTTAGCCTGCTAAGATG
4769 I A GGCTGGGAAGAGAGGAGAGAGGGGAAATGCC
4769 P G A CGCGCCGAGGGCAGTTCTAAGACTCAGCTTGY
4769 P T A CGCGCCGAGGTCAGTTCTAAGACTCAGCTTGY
4769 T G A CTGGCAAGCTGAGTCTTAGAACTGCGCATTTCCCCTCTCTCCTCTCTTCCCAGCCAA
4769 T T A CTGGCAAGCTGAGTCTTAGAACTGAGCATTTCCCCTCTCTCCTCTCTTCCCAGCCAA
4769 IS [GT] ACCAAAGCGGCCTGGAGTTTGGCTGGGAAGAGAGGAGAGAGGGGAAATGC[GT]CAGTTCTAAGACTCAGCTTGCCAGCCATGGCAGCCTCCCCACTGCACCCC
4787 I A AGCAGAGTCTGGGGCATTTGTGCAAATGTTGATGAT
4787 P A A CGCGCCGAGGAGTCCCCAGACAACTCG
4787 P G A CGCGCCGAGGGGTCCCCAGACAACTCG
4787 T A A CCTGCGAGTTGTCTGGGGACCTCATCAACATTTGCACAAATGCCCCAGACTCTGCTCA
4787 T G A CCTGCGAGTTGTCTGGGGACCTCATCAACATTTGCACAAATGCCCCAGACTCTGCTCA
4787 IS [AG] CCTTTGAAAGAGGTGAGCAGAGTCTGGGGCATTTGTGCAAATGTTGATGA[AG]GTCCCCAGACAACTCGCAGGCTCCCAGGAAACCCTAACTGGGGAAGAAAA
6982 I A GGGTCTTCCCATACCTCCTGAGCTCAGCTGAAC
6982 P G A CGCGCCGAGGGCCAACCCTCGAGGCY
6982 P T A CGCGCCGAGGTCCAACCCTCGAGGCY
6982 T G A GAAGGCCTCGAGGGTTGGCTTCAGCTGAGCTCAGGAGGTATGGGAAGACCCTG
6982 T T A GAAGGCCTCGAGGGTTGGATTCAGCTGAGCTCAGGAGGTATGGGAAGACCCTG
6982 IS [GT] GCACTGAGAAATGGCTCAGGGTCTTCCCATACCTCCTGAGCTCAGCTGAAG[GT]CCAACCCTCGAGGCCTTCTCCACTCTCCACTGCTGCTTTCCAGGCTTATC
7094 I S GCGAATATGGAGCCTGCAGCTTCACAACCACAT
7094 P T S CGCGCCGAGGAGTTGAGAAATAGCTACTGACTGY
7094 P G S CGCGCCGAGGCGTTGAGAAATAGCTACTGACTGY
7094 T T S CAAACAGTCAGTAGCTATTTCTCAACTTGTGGTTGTGAAGCTGCAGGCTCCATATTCGCTC
7094 T G S CAAACAGTCAGTAGCTATTTCTCAACGTGTGGTTGTGAAGCTGCAGGCTCCATATTCGCTC
7094 IS [TG] CAGCCTGGAATCAGCCGTTTGTGGCAAACAGTCAGTAGCTATTTCTCAAC[TG]TGTGGTTGTGAAGCTGCAGGCTCCATATTCGCTCTTCACAGAGCATCCAA
7152 I S GGACGTCTCCATAAATCAGGACATATATAATAGAATTTACAAAGGAAAATC
7152 P T S CGCGCCGAGGAAGTGCCACTACAGATGAG
7152 P A S CGCGCCGAGGTAGTGCCACTACAGATGAGCY
7152 T T S ACAAGCTCATCTGTAGTGGCACTTATTTTCCTTTGTAAATTCTATTATATATGTCCTGATTTATGGAGACGTCC
7152 T A S ACAAGCTCATCTGTAGTGGCACTAATTTTCCTTTGTAAATTCTATTATATATGTCCTGATTTATGGAGACGTCC
7152 IS [TA] TCATTTCGAAGTTTGTAATTTTTTACTACAAGCTCATCTGTAGTGGCACT[TA]ATATTTCCTTTGTAAATTCTATTATATATGTCCTGATTTATGGAGACGTCC
7167 I A CCTAAGGAGGCAATGTAAGCAGACTGAGGAATAGAAC
7167 P A A CGCGCCGAGGAGGAGAAGAAGCAAAAGGGGY
7167 P T A CGCGCCGAGGTGGAGAAAGCAAAAGGGGY
7167 T A A TCTTCCCCTTTTGCTTTCTCCATTCTATTCCTCAGTCTGCTTACATTGCCTCCTTAGGAC
7167 T T A TCTTCCCCTTTTGCTTTCTCCATTCTATTCCTCAGTCTGCTTACATTGCCTCCTTAGGAC
7167 IS [AT] TAAGAGTTTTAAGTCCTAAGGAGGCAATGTAAGCAGACTGAGGAATAGAA[AT]GGAGAAAGCAAAAGGGGAAGAGAATTGATGGTAAACAGGGTACCTTTGGG
7192 I A GAGTGAGTGAAAGTCGCAGTCAGTATAAGGCAAAGGGAT
7192 P INS A CGCGCCGAGGCCCAAGAACTCCCAAGG
7192 P DEL A CGCGCCGAGGCAGATGGAGTAAAATGAGTAAAAATGG
7192 T INS A TCTGCCATTTTTACTCATTTTACTCCATCTGTCCCTTGGGAGTTCTTGGGTCCCTTTGCCTTATACTGACTGCGACTTTCACTCACTCAA
7192 T DEL A TCTGCCATTTTTACTCATTTTACTCCATCTGTCCCTTTGCCTTATACTGACTGCGACTTTCACTCACTCAA
7192 IS [-CCAAGAACTCCCAAGGGAC] AGGTACCTCTTGAGTGAGTGAAAGTCGCAGTCAGTATAAGGCAAAGGGAT[-CCAAGAACTCCCAAGGGAC]AGATGCGAGTAAAATGAGTAAAAATGGCAGAGTGAGAACACTGGGAGGAAA
7195 I A CTCCTGGAGTCTGGGCCTCACCTTGGAGC
7195 P T A CGCGCCGAGGTTTTCCTGACTTTTTGGACCTT

FIGURE 129F

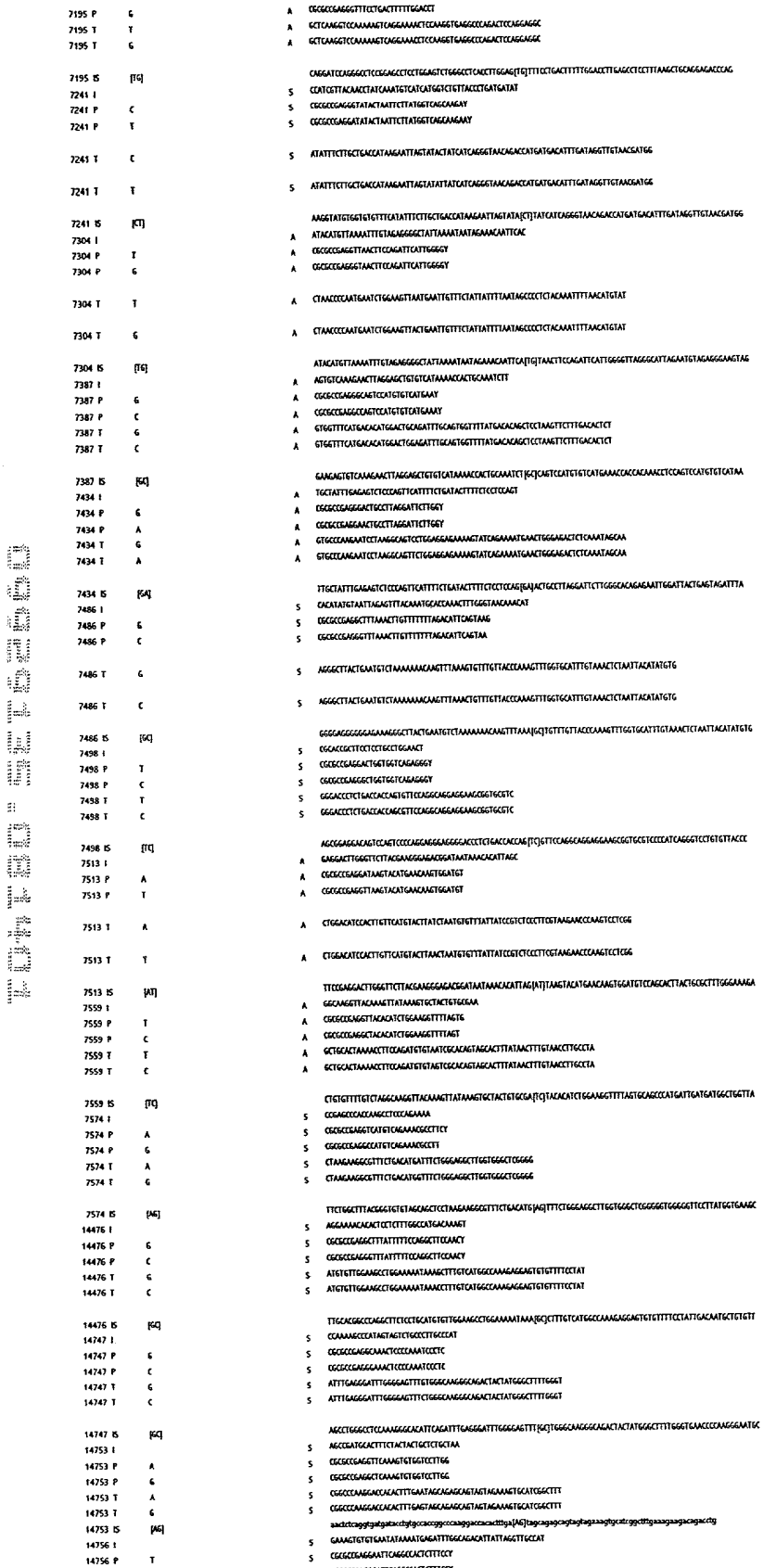

7195 P G A CGCGCCGAGGGTTTCCTGACTTTTTGGACCT
7195 T T A GCTCAAGGTCCAAAAAGTCAGGAAAACTCCAAGGTGAGGCCCAGACTCCAGCAGGC
7195 T G A GCTCAAGGTCCAAAAAGTCAGGAAACCTCCAAGGTGAGGCCCAGACTCCAGCAGGC
7195 IS [TG] CAGGATCCAGGGGCTCCGGAGCCTCCTGGAGTCTGGGCCTCAGCTTGGAG[TG]TTTCCTGACTTTTTGGAACCTTGAGCCTCCTTTAAGCTGCAGGAGACCCAG
7241 I S CCATCGTTACAACCTATCAAATGTCATCATGGTCTGTTACCCTGATGATAT
7241 P C S CGCGCCGAGGGTATACTAATTCTTATGGTCAGCAAGAY
7241 P T S CGCGCCGAGGATATACTAATTCTTATGGTCAGCAAGAAY
7241 T C S ATATTTCTTGCTGACCATAAGAATTAGTATACTATCATCAGGGTAACAGACCATGATGACATTTGATAGGTTGTAACGATGG
7241 T T S ATATTTCTTGCTGACCATAAGAATTAGTATATTATCATCAGGGTAACAGACCATGATGACATTTGATAGGTTGTAACGATGG
7241 IS [CT] AAGGTATGTGGTGTGTTTCATATTTCTTGCTGACCATAAGAATTAGTATA[CT]TATCATCAGGGTAACAGACCATGATGACATTTGATAGGTTGTAACGATGG
7304 I A ATACATGTTAAAATTTGTAGAGGGGCTATTAAAATAATATGAAACATTCAC
7304 P T A CGCGCCGAGGTTAACTTCCAGATTCATTGGGGY
7304 P G A CGCGCCGAGGGTAACTTCCAGATTCATTGGGGY
7304 T T A CTAACCCCAATGAATCTGGAAGTTAATGAATTGTTTCTATTATTTTAATAGCCCCTCTACAAATTTTAACATGTAT
7304 T G A CTAACCCCAATGAATCTGGAAGTTACTGAATTGTTTCTATTATTTTAATAGCCCCTCTACAAATTTTAACATGTAT
7304 IS [TG] ATACATGTTAAAATTTGTAGAGGGGCTATTAAAATAATATGAAACATTCA[TG]TAACTTCCAGATTCATTGGGGTTAGGGCATTAGAATGTAGAGGGAAGTAG
7387 I A AGTGTCAAAGAACTTAGGAGCTGTGTCATAAAACCACTGCAAATCTT
7387 P G A CGCGCCGAGGGCAGTCCATGTGTCATGAAY
7387 P C A CGCGCCGAGGCCAGTCCATGTGTCATGAAAY
7387 T G A GTGGTTTCATGACACATGGACTGCAGATTTGCAGTGGTTTTATGACACAGCTCCTAAGTTCTTTGACACTCT
7387 T C A GTGGTTTCATGACACATGGACTGGAGATTTGCAGTGGTTTTATGACACAGCTCCTAAGTTCTTTGACACTCT
7387 IS [GC] GAAGAGTGTCAAAGAACTTAGGAGCTGTGTCATAAAACCACTGCAAATCT[GC]CAGTCCATGTGTCATGAAACCACCACAAACCTCCAGTCCATGTGTCATAA
7434 I A TGCTATTTGAGAGTCTCCCAGTTCATTTTCTGATACTTTTCTCCTCCAGT
7434 P G A CGCGCCGAGGGACTGCCTTAGGATTCTTGGY
7434 P A A CGCGCCGAGGAACTGCCTTAGGATTCTTGGY
7434 T G A GTGCCCAAGAATCCTAAGGCAGTCCTGGAGGAGAAAAGTATCAGAAAATGAACTGGGAGACTCTCAAATAGCAA
7434 T A A GTGCCCAAGAATCCTAAGGCAGTTCTGGAGGAGAAAAGTATCAGAAAATGAACTGGGAGACTCTCAAATAGCAA
7434 IS [GA] TTGCTATTTGAGAGTCTCCCAGTTCATTTTCTGATACTTTTCTCCTCCAG[GA]ACTGCCTTAGGATTCTTGGGCACAGAGAATTGGATTACTGAGTAGATTTA
7486 I S CACATATGTAATTAGAGTTTACAAATGCACCAAACTTTGGGTAACAAACAT
7486 P G S CGCGCCGAGGCTTTAAACTTGTTTTTTTAGACATTCAGTAAG
7486 P C S CGCGCCGAGGGTTTAAACTTGTTTTTTTAGACATTCAGTAA
7486 T G S AGGGCTTACTGAATGTCTAAAAAAACAAGTTTAAAGTGTTGTTACCCAAAGTTTGGGTGCATTTGTAAACTCTAATTACATATGTG
7486 T C S AGGGCTTACTGAATGTCTAAAAAAACAAGTTTAAACTGTTTGTTACCCAAAGTTTGGTGCATTTGTAAACTCTAATTACATATGTG
7486 IS [GC] GGGGAGGGGGGGAGAAAGGGCTTACTGAATGTCTAAAAAAACAAGTTTAAA[GC]TGTTTGTTACCCAAAGTTTGGTGCATTTGTAAACTCTAATTACATATGTG
7498 I S CGCACCGCTTCCTCCTGCCTGGAACT
7498 P T S CGCGCCGAGGAACTGGTGGTCAGAGGGY
7498 P C S CGCGCCGAGGGCTGGTGGTCAGAGGGY
7498 T T S GGGACCCTCTGACCACCAGCTTCCAGGCAGGAGGAAGCGGTGCGTC
7498 T C S GGGACCCTCTGACCACCAGCGTTCCAGGCAGGAGGAAGCGGTGCGTC
7498 IS [TC] AGCGGAGGACAGTCCAGTCCCCAGGAGGAGGGCACCCTCTGACCACCAG[TC]GTTCCAGGCAGGAGGAAGCGGTGCGTCCCCATCAGGGTCCTGTGTTACCC
7513 I A GAGGACTTGGGTTCTTACGAAGGGAGACGGATAATAAACACATTAGC
7513 P A A CGCGCCGAGGATAAGTACATGAACAAGTGGATGT
7513 P T A CGCGCCGAGGTTAAGTACATGAACAAGTGGATGT
7513 T A A CTGGACATCCACTTGTTCATGTACTTATCTAATGTGTTTATTATCCGTCTCCCTTCGTAAGAACCCAAGTCCTCGG
7513 T T A CTGGACATCCACTTGTTCATGTACTTAACTAATGTGTTTATTATCCGTCTCCCTTCGTAAGAACCCAAGTCCTCGG
7513 IS [AT] TTCCGAGGACTTGGGTTCTTACGAAGGGAGACGGATAATAAACACATTAG[AT]TAAGTACATGAACAAGTGGATGTCCAGCACTTACTCCGCTTTGGGAAAGA
7559 I A GGCAAGGTTACAAAGTTATAAAGTGCTACTGTGCGAA
7559 P T A CGCGCCGAGGTTACACATCTGGAAGGTTTTAGTG
7559 P C A CGCGCCGAGGCTACACATCTGGAAGGTTTTAGT
7559 T T A GCTGCACTAAAACCTTCCAGATGTGTAATCGCACAGTAGCACTTTATAACTTTGTAACCTTGCCTA
7559 T C A GCTGCACTAAAACCTTCCAGATGTGTAGTCGCACAGTAGCACTTTATAACTTTGTAACCTTGCCTA
7559 IS [TC] CTGTGTTTTGTCTAGGCAAGGTTACAAAGTTATAAAGTGCTACTGTGCGA[TC]TACACATCTGGAAGGTTTTAGTGCAGCCCATGATTGATGATGGCTGGTTA
7574 I S CCGAGCCCACCAAGCCTCCCAGAAAA
7574 P A S CGCGCCGAGGTCATGTCAGAAACGCCTCY
7574 P G S CGCGCCGAGGCCATGTCAGAAACGCCTT
7574 T A S CTAAGAAGGCGTTTCTGACATGATTTCTGGGAGGCTTGGTGGGCTCGGGG
7574 T G S CTAAGAAGGCGTTTCTGACATGGTTTCTGGGAGGCTTGGTGGGCTCGGGG
7574 IS [AG] TTCTGGCTTTACGGGTGTGTAGCAGCTCCTAAGAAGGCGTTTCTGACATG[AG]TTTCTGGGAGGCTTGGTGGGCTCGGGGGTGGGGGTTCCTTATGGTGAAGC
14476 I S AGCAAAACACACTCCTCTTTGGCCATGACAAAGT
14476 P G S CGCGCCGAGGCTTTATTTTTCCAGGCTTCCAACY
14476 P C S CGCGCCGAGGGTTTATTTTTCCAGGCTTCCAACY
14476 T G S ATGTGTTGGAAGCCTGGAAAAATAAAGCTTTGTCATGGCCAAAGAGGAGTGTGTTTTCCTAT
14476 T C S ATGTGTTGGAAGCCTGGAAAAATAAACCTTTGTCATGGCCAAAGAGGAGTGTGTTTTCCTAT
14476 IS [GC] TTGCACGGCCCAGGCTTCTCCTGCATGTGTTGGAAGCCTGGAAAAATAAA[GC]CTTTGTCATGGCCAAAGAGGAGTGTGTTTTCCTATTGACAATGCTGTGTT
14747 I S CCAAAAGCCCATAGTAGTCTGCCCTTGCCCAT
14747 P G S CGCGCCCAGGCAAACTCCCCAAATCCCTC
14747 P C S CGCGCCCAGGGAAACTCCCCAAATCCCTC
14747 T G S ATTTGAGGGATTTGGGGAGTTTGTGGGCAAGGGCAGACTACTATGGGCTTTTGGGT
14747 T C S ATTTGAGGGATTTGGGGAGTTTCTGGGCAAGGGCAGACTACTATGGGCTTTTGGGT
14747 IS [GC] AGCCTGGGCCTCCAAAGGGCACATTCAGATTTGAGGGATTTGGGGAGTTT[GC]TGGGCAAGGGCAGACTACTATGGGCTTTTGGGTGAACCCCAAGGGAATGC
14753 I S AGCCGATGCACTTTCTACTACTGCTCTGCTAA
14753 P A S CGCGCCGAGGTTCAAAGTGTGGTCCTTGG
14753 P G S CGCGCCGAGGCTCAAAGTGTGGTCCTTGG
14753 T A S CGGCCCAAGGACACACACTTTGAATAGCAGAGGAGTAGTAGAAAGTGCATCGGCTTT
14753 T G S CGGCCCAAGGACACACACTTTGAGTAGCAGAGGAGTAGTAGAAAGTGCATCGGCTTT
14753 IS [AG] aacactcaggtgatgatacctgtgccaccggcccaaggaccacacttttga[AG]tagcagagcagtagtagtaagaaagtgcatcggctttgaaaggaagacagcacctg
14756 I S GAAAGTGTGTGAATATAAAATGAGATTTGGCAGACATTATTAGGTTGCCAT
14756 P T S CGCGCCGAGGAATTCAGGCCACTCTTTCCY
14756 P C S CGCGCCGAGGGATTCAGGCCACTCTTTCCY

FIGURE 129F

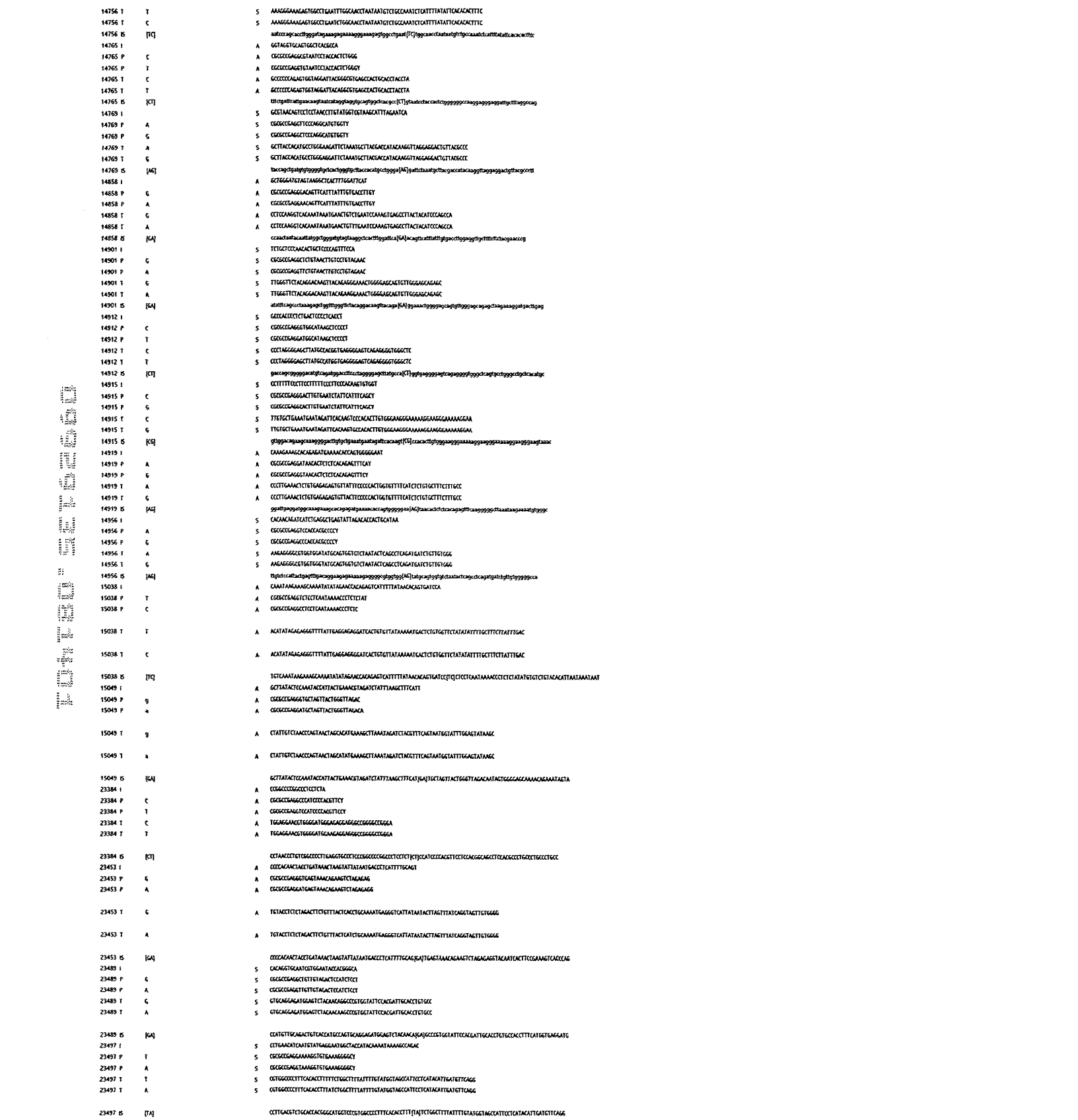
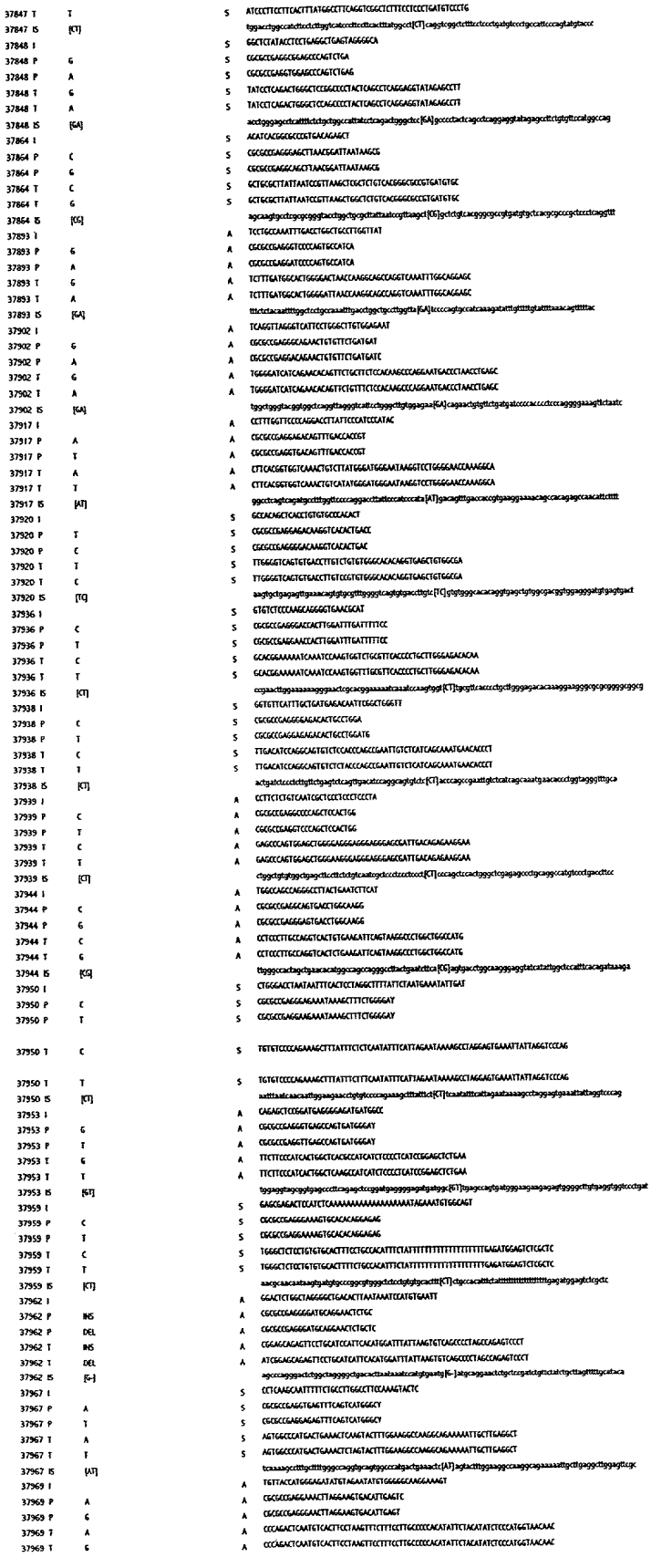

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14756 T C S AAAGGAAAGAGTGGCCTGAATCTGGCAACCTAATAATGTCTGCCAAATCTCATTTTATATTCACACACTTTC
14756 IS [TC] aatcccagcaccttgggatagaaagagaaaagggaaagagtgggcctgaat[TC]tggcaacctaataatgtctgccaaatctcatttttatattcacacactttc
14765 I A GGTAGGTGCAGTGGCTCACGCCA
14765 P C A CGCGCCGAGGCGTAATCCTACCACTCTGGG
14765 P T A CGCGCCGAGGTGTAATCCTACCACTCTGGGY
14765 T C A GCCCCCCAGAGTGGTAGGATTACAGGCGTGAGCCACTGCACCTACCTA
14765 T T A GCCCCCCAGAGTGGTAGGATTACAGGCGTGAGCCACTGCACCTACCTA
14765 IS [CT] ttctgattttattgaacaaagtaatcatagggtagtgcagtgggctcacgcc[CT]gtaatcctaccactctgggggggccaaggagggaggattgctttaggccag
14769 I S GCGTAACAGTCCTCCTAACCTTGTATGGTGGTAAGCATTTAGAATCA
14769 P A S CGCGCCGAGGTTCCCAGGCATGTGGTY
14769 P G S CGCGCCGAGGCTCCCAGGCATGTGGTY
14769 T A S GCTTACCACATGCCTGGGAAGATTCTAAATGCTTACGACCATACAAGGTTAGGAGGACTGTTACGCCC
14769 T G S GCTTACACATGCCTGGGAAGGATTCTAAATGCTTACGACCATACAAGGTTAGGAGGACTGTTACGCCC
14769 IS [AG] tacgactgatgtgtgggggtgctcactgggtgcttacacatgcctggga[AG]gattctaaatgcttacgaccatacaagggttaggaggactgttacgcctt
14858 I A GCTGGGATGTAGTAAGGCTCACTTTGGATTCAT
14858 P G A CGCGCCGAGGGACAGTTCATTTATTTGTGACCTTGY
14858 P A A CGCGCCGAGGAACAGTTCATTTATTTGTGACCTTGY
14858 T G A CCTCCAAGGTCACAAATAAATGAACTGTCTGAATCCAAAGTGAGCCTTACTACATCCCAGCCA
14858 T A A CCTCCAAGGTCACAAATAAATGAACTGTTTGAATCCAAAGTGAGCCTTACTACATCCCAGCCA
14858 IS [GA] ccaactaatacaattatggctgggatgtagtaaggctcacttggattca[GA]acagttcatttattgtgaccttggaggttgcttttcttctacgaacccg
14901 I S TCTGCTCCCAACACTGCTCCCCAGTTTCCA
14901 P G S CGCGCCGAGGCTCTGTAACTTGTCCTGTAGAAC
14901 P A S CGCGCCGAGGTTCTGTAACTTGTCCTGTAGAAC
14901 T G S TTGGGTTCTACAGGACAAGTTACAGAAGGAAACTGGGGAGCAGTGTTGGGAGCAGAGC
14901 T A S TTGGGTTCTACAGGACAAGTTACAGAAGGAAACTGGGGAGCAGTGTTGGGAGCAGAGC
14901 IS [GA] atatttcagccctaaagagctggtttgggttctacaggacaagttacaga[GA]ggaaactgggggagcagtgttgggagcagagctaggaaaggatgactgag
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14912 P C S CGCGCCGAGGGTGGCATAAGCTCCCCT
14912 P T S CGCGCCGAGGATGGCATAAGCTCCCCT
14912 T C S CCCTAGGGGAGCTTATGCCACGGTGAGGGGAGTCAGAGGGGTGGGCTC
14912 T T S CCCTAGGGGAGCTTATGCCATGGTGAGGGGAGTCAGAGGGGTGGGCTC
14912 IS [CT] gaccagcggggacatgtcagatggacctttcctagggagctttatgcca[CT]ggtgagggggagtcagaggggtgggctcagtgcctgggcctgctcacatgc
14915 I S CCTTTTTCCCTTCCTTTTCCCTTCCACAAGTGTGGT
14915 P C S CGCGCCGAGGGACTTGTGAATCTATTCATTTCAGCY
14915 P G S CGCGCCGAGGCACTTGTGAATCTATTCATTTCAGCY
14915 T C S TTGTGCTGAAATGAATAGATTCACAAGTCCCCACACTTGTGGGAAGGCAAAAAGGAAGGCAAAAAGGAA
14915 T G S TTGTGCTGAAATGAATAGATTCACAAGTGCCACACTTGTGGGAAGGCAAAAAGGAAGGCAAAAAGGAA
14915 IS [CG] gtgggacagaagcaaagggagcttgtgctgaaatgaatagattcacaagt[CG]ccacacttgtgggaagggaaaaaggaagggaaaaaggaagggaagtaaac
14919 I A CAAAGAAAGCACAGAGATGAAAAACACCAGTGGGGGAAAT
14919 P A A CGCGCCGAGGATAACACTCTCTCACAGAGTTTCAY
14919 P G A CGCGCCGAGGGTAACACTCTCTCACAGAGTTTCY
14919 T A A CCCTTGAAACTCTGTGAGAGAGTGTTATTTCCCCCACTGGTGTTTTCATCTCTGTGCTTTCTTTGCC
14919 T G A CCCTTGAAACTCTGTGAGAGAGTGTTACTTCCCCCACTGGTGTTTTCATCTCTGTGCTTTCTTTGCC
14919 IS [AG] ggaatgagcatggcaaagaaagcacagagatgaaaacaccagtgggggaa[AG]taacacktctcacacagagtttcaaggggtcttaaataagaaaatgtgggc
14956 I S CACAACAGATCATCTGAGGCTGAGTATTAGACACACTGCATAA
14956 P A S CGCGCCGAGGTCCACCACGCCCCY
14956 P G S CGCGCCGAGGCCCACCACGCCCCY
14956 T A S AAGAGGGGCGTGGTGGATATGCAGTGGTGTCTAATACTCAGCCTCAGATGATCTGTTGTGGG
14956 T G S AAGAGGGGCGTGGTGGATATGCAGTGGTGTCTAATACTCAGCCTCAGATGATCTGTTGTGGG
14956 IS [AG] ttgtctccattactgagtttgacaggaagagaaaaagagggggcgtggtgg[AG]tatgcagtggtgtctaatactcagcctcagatgatctgttgtggggcca
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15038 P T A CGCGCCGAGGTCTCCTCAATAAAACCCTCTCTAT
15038 P C A CGCGCCGAGGCCTCCTCAATAAAACCCTCTC
15038 T T A ACATATAGAGAGAGGGTTTTATTGAGGAGAGGATCACTGTGTTATAAAAATGACTCTGTGGTTCTATATATATTTGCTTTCTTATTTGAC
15038 T C A ACATATAGAGAGAGGGTTTTATTGAGGAGAGGGATCACTGTGTTATAAAAATGACTCTGTGGTTCTATATATTTGCTTTCTTATTTGAC
15038 IS [TC] TGTCAAATAAGAAAGCAAAATATATAGAACCACAGAGTCATTTTTATAACACAGTGATCC[TC]CTCCTCAATAAAACCCTCTCTATATGTGTCTGTACACATTAATAAATAAT
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23384 P C A CGCGCCGAGGCCATCCCCACGTTCY
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23453 P G A CGCGCCGAGGGTGAGTAAACAGAAGTCTAGAGAG
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FIGURE 129F



FIGURE 129F



Applied Biosystems

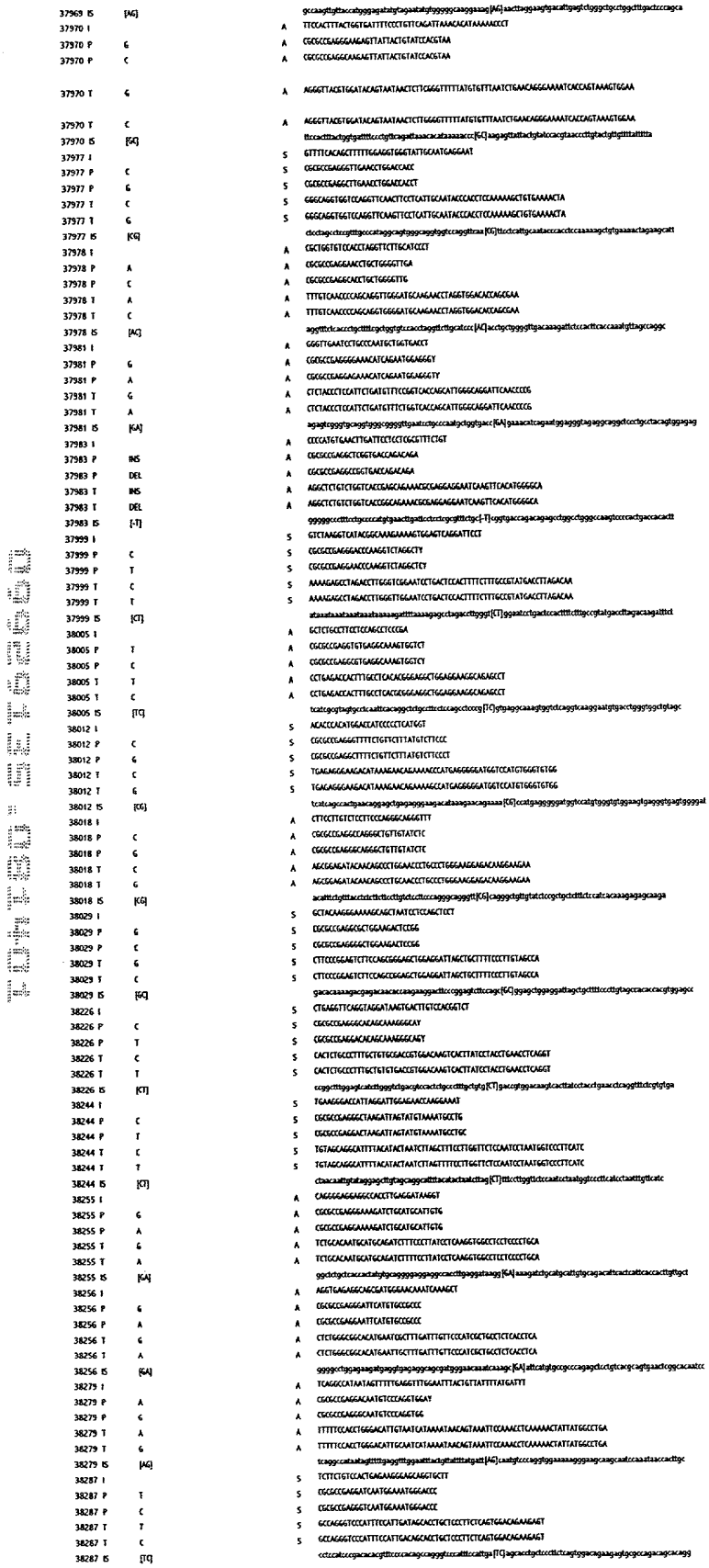
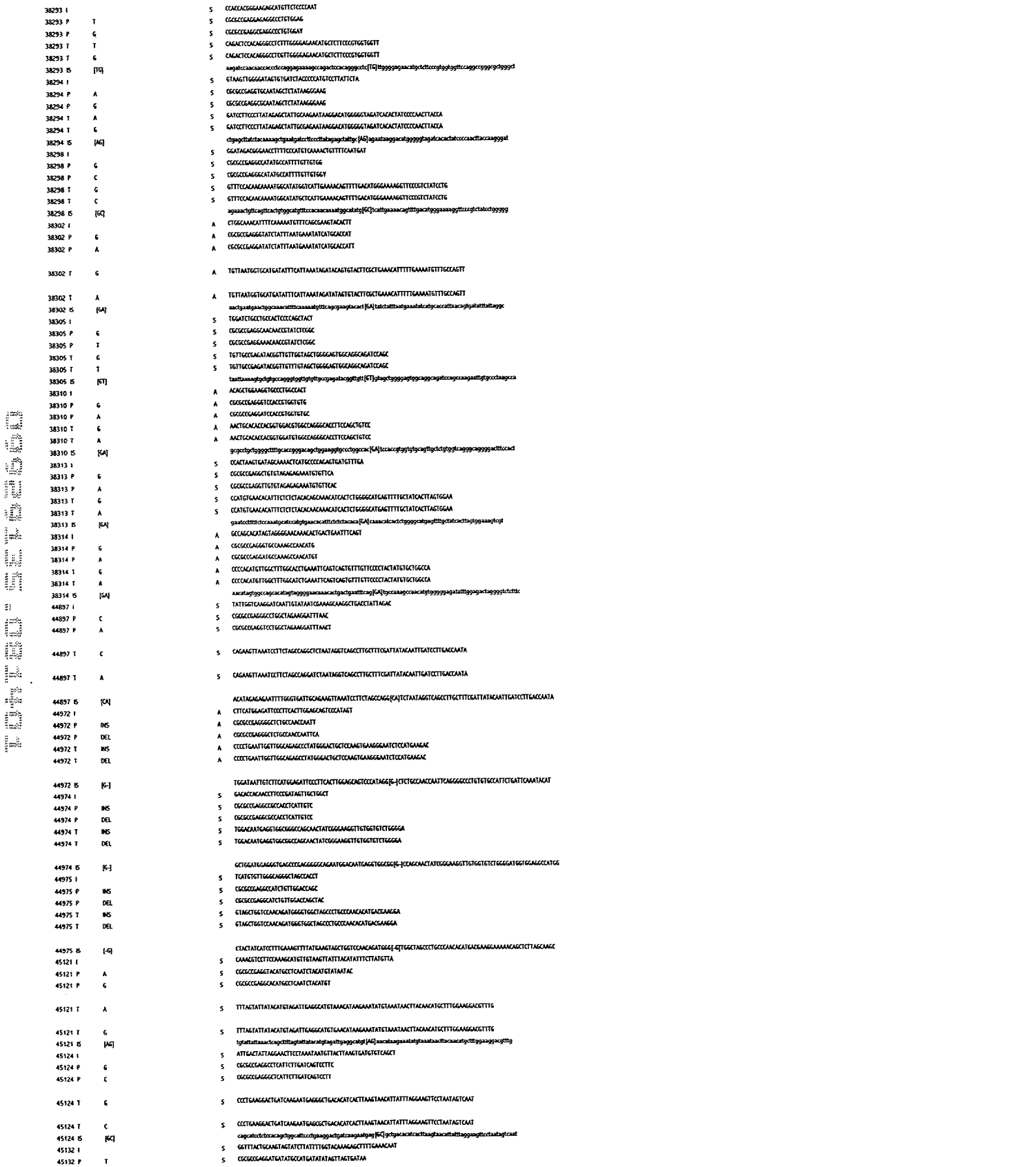


FIGURE 129F



Applied Biosystems, Inc.

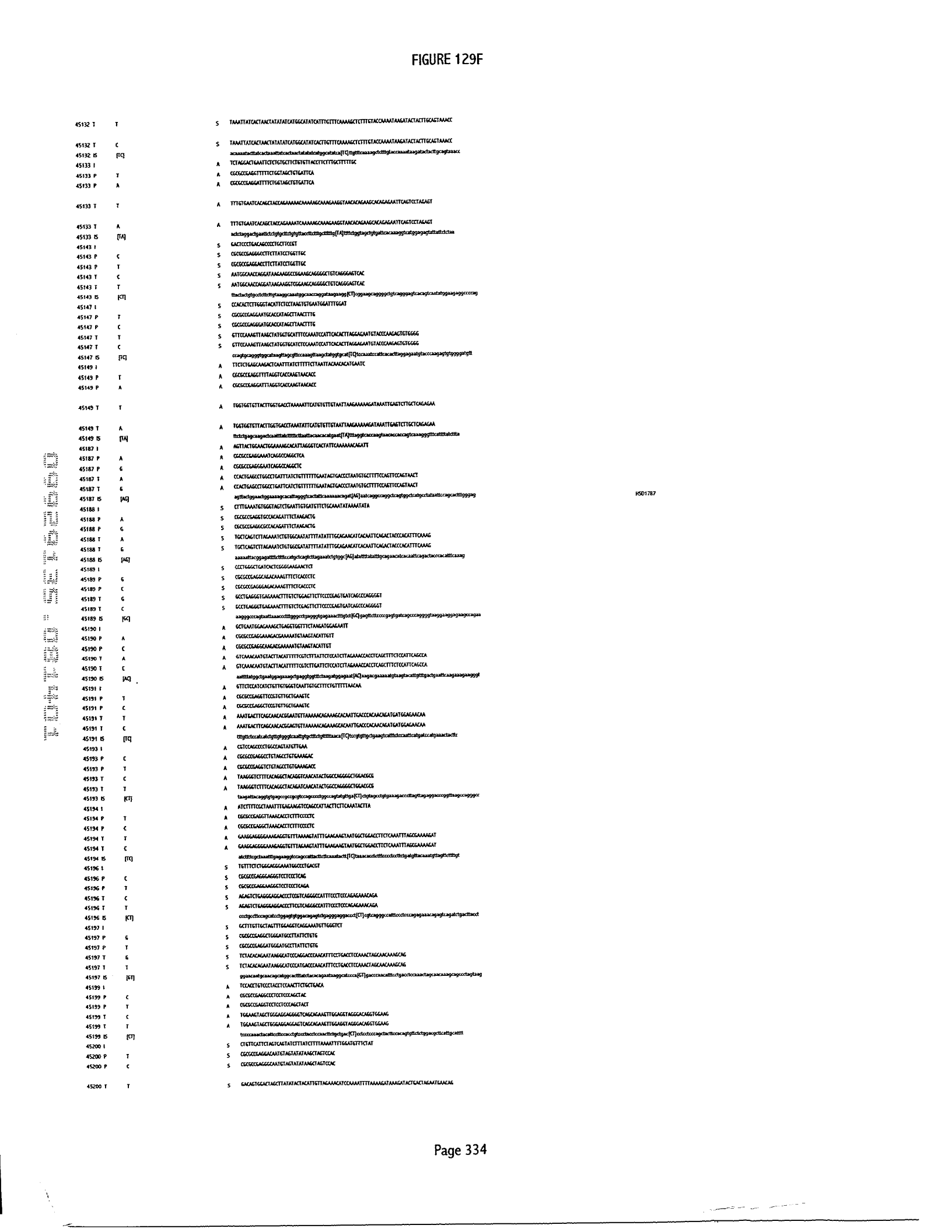
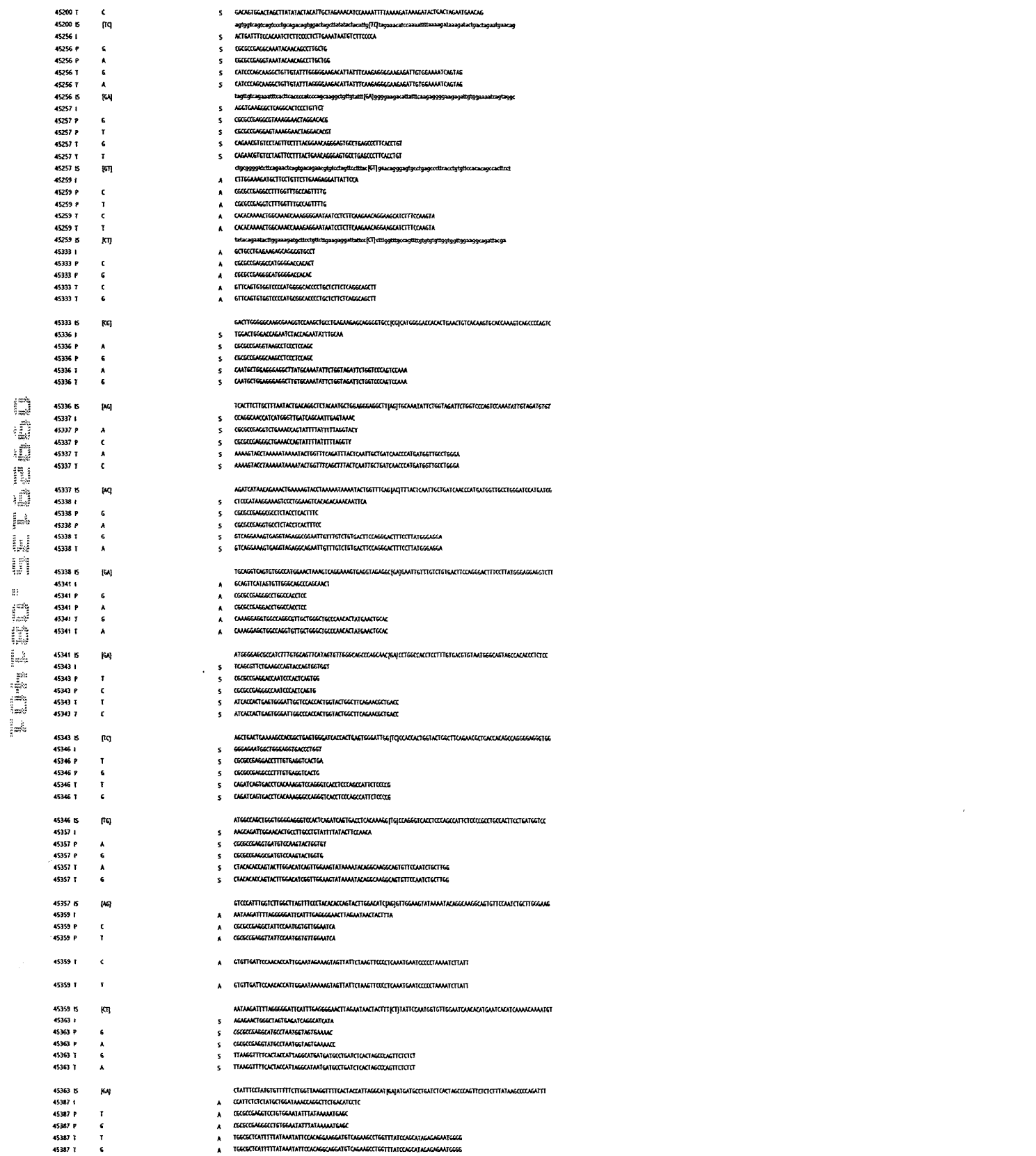

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HSD17B7
Jan 2001
Jan 2002
Jan 2003
Jan 2004
Jan 2005
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FIGURE 129F



Replacement Sheet

FIGURE 129F

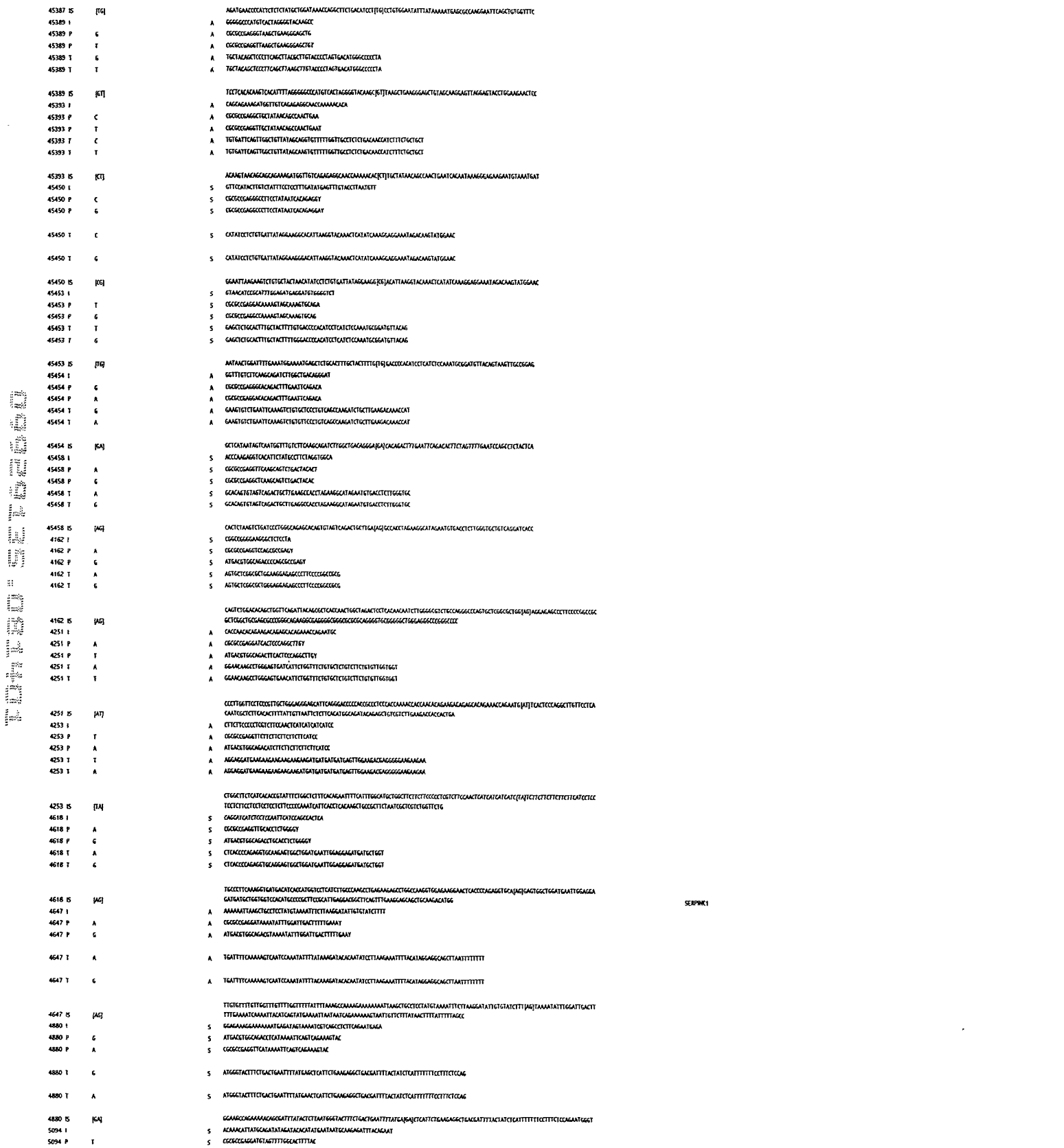


FIGURE 129F

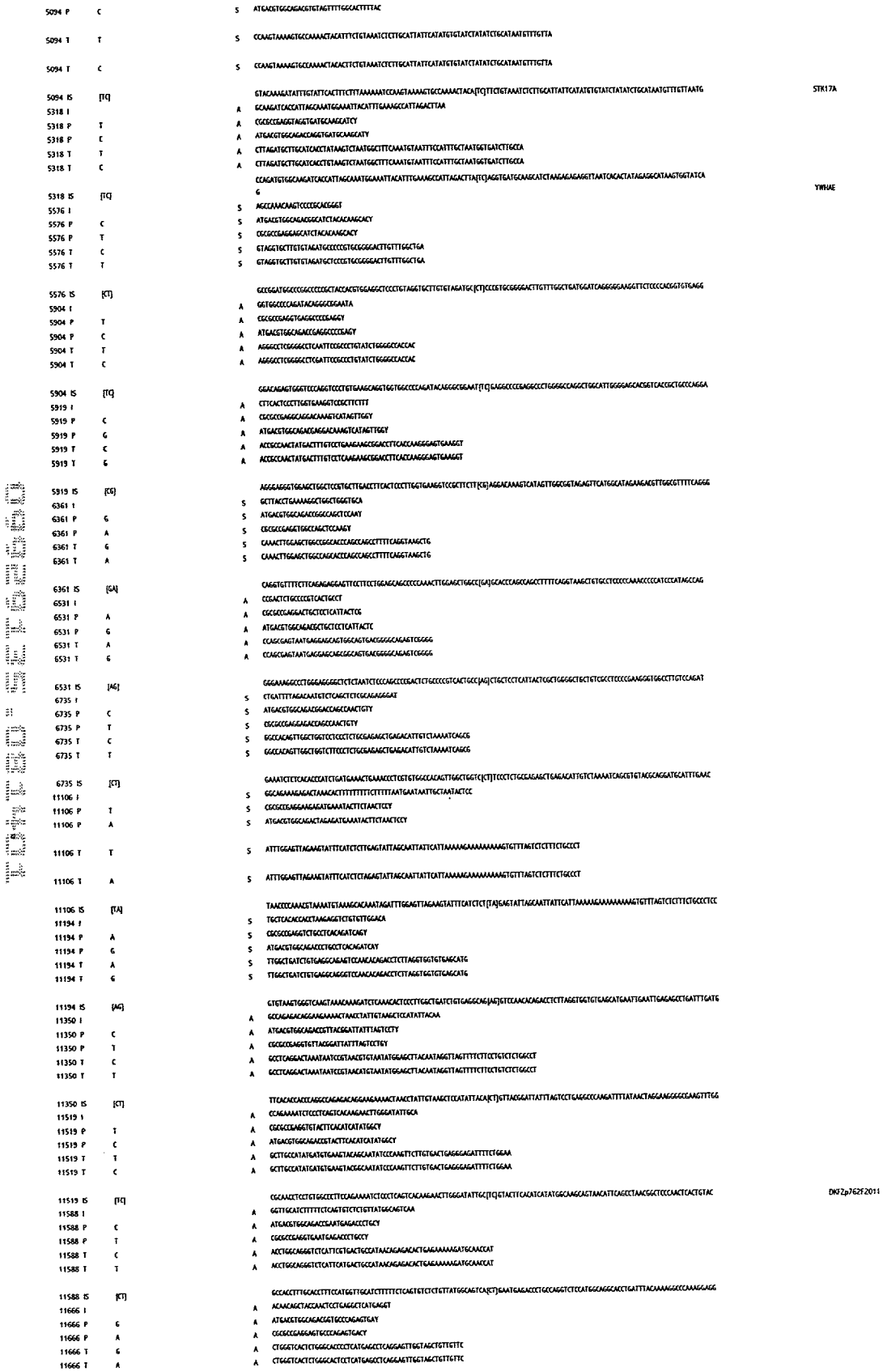


FIGURE 129F

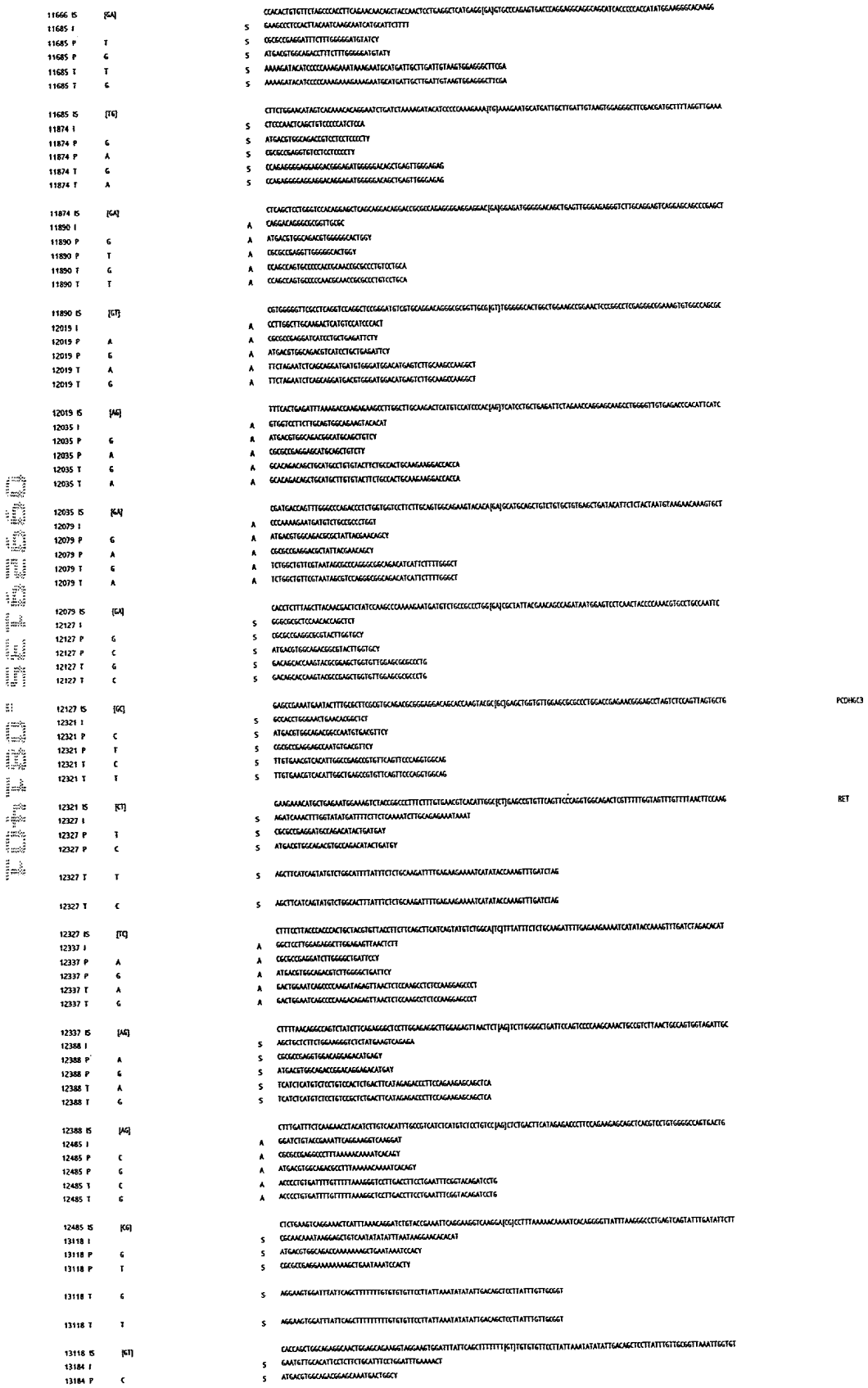
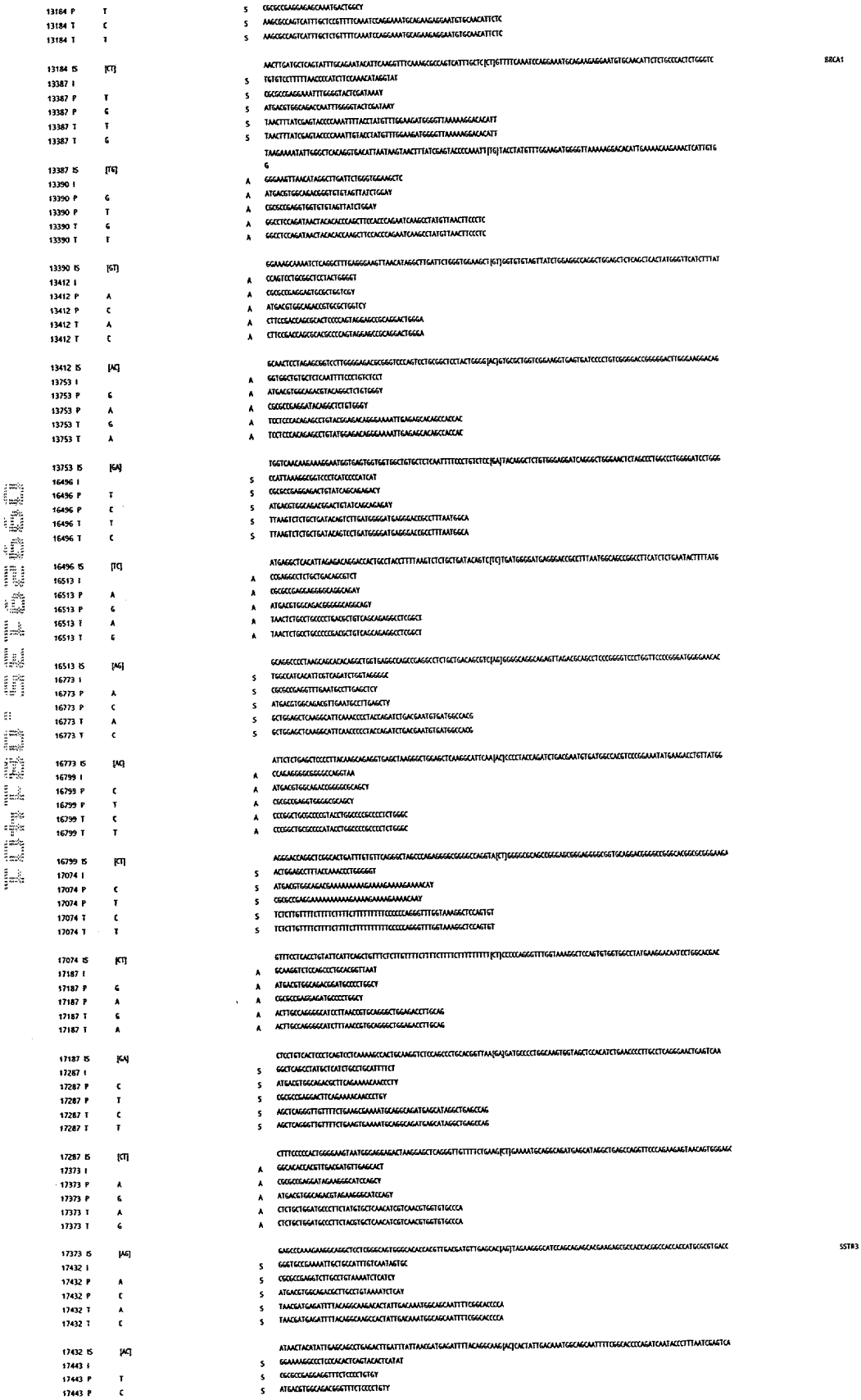


FIGURE 129F



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FIGURE 129F

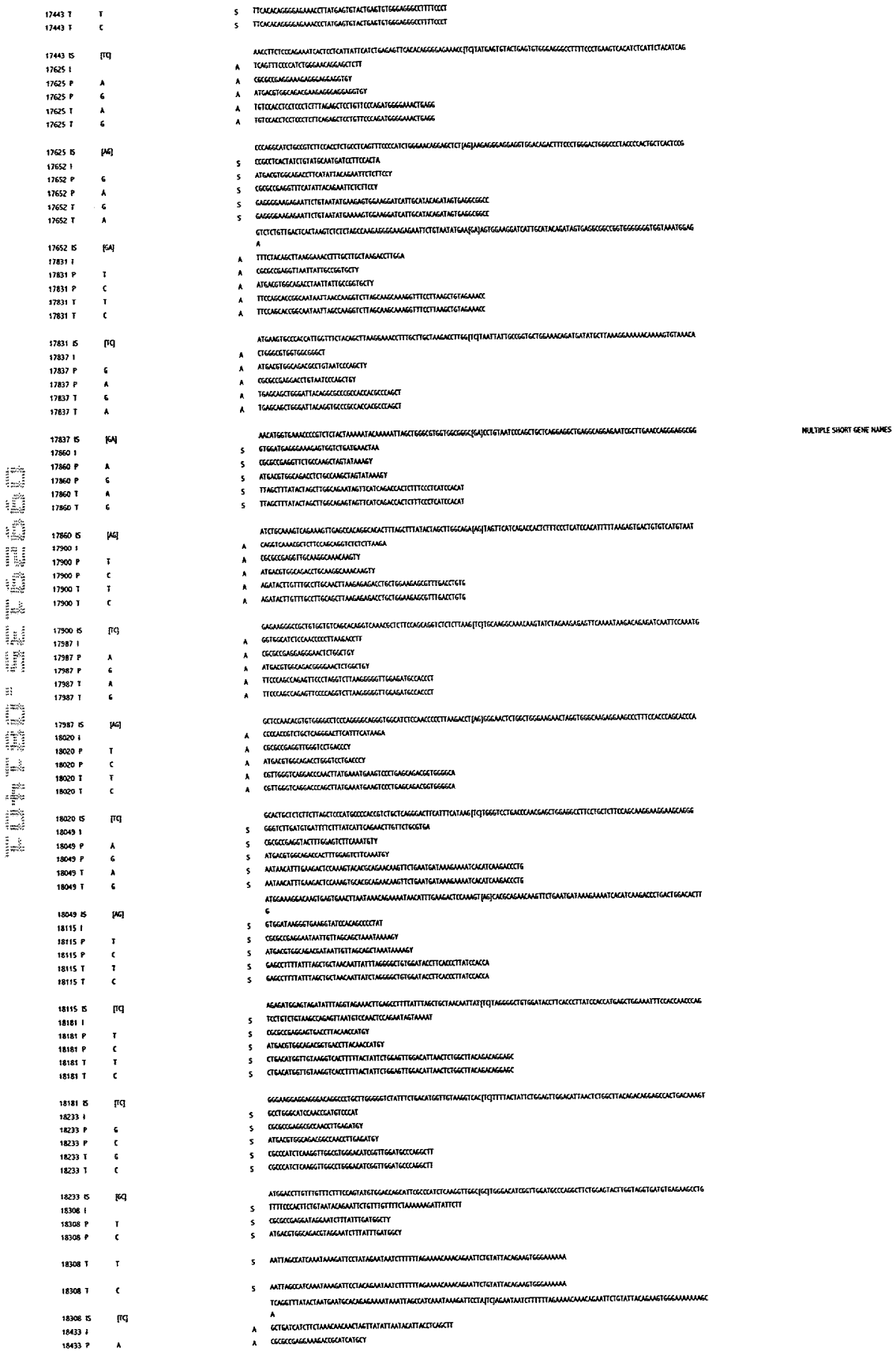


FIGURE 129F

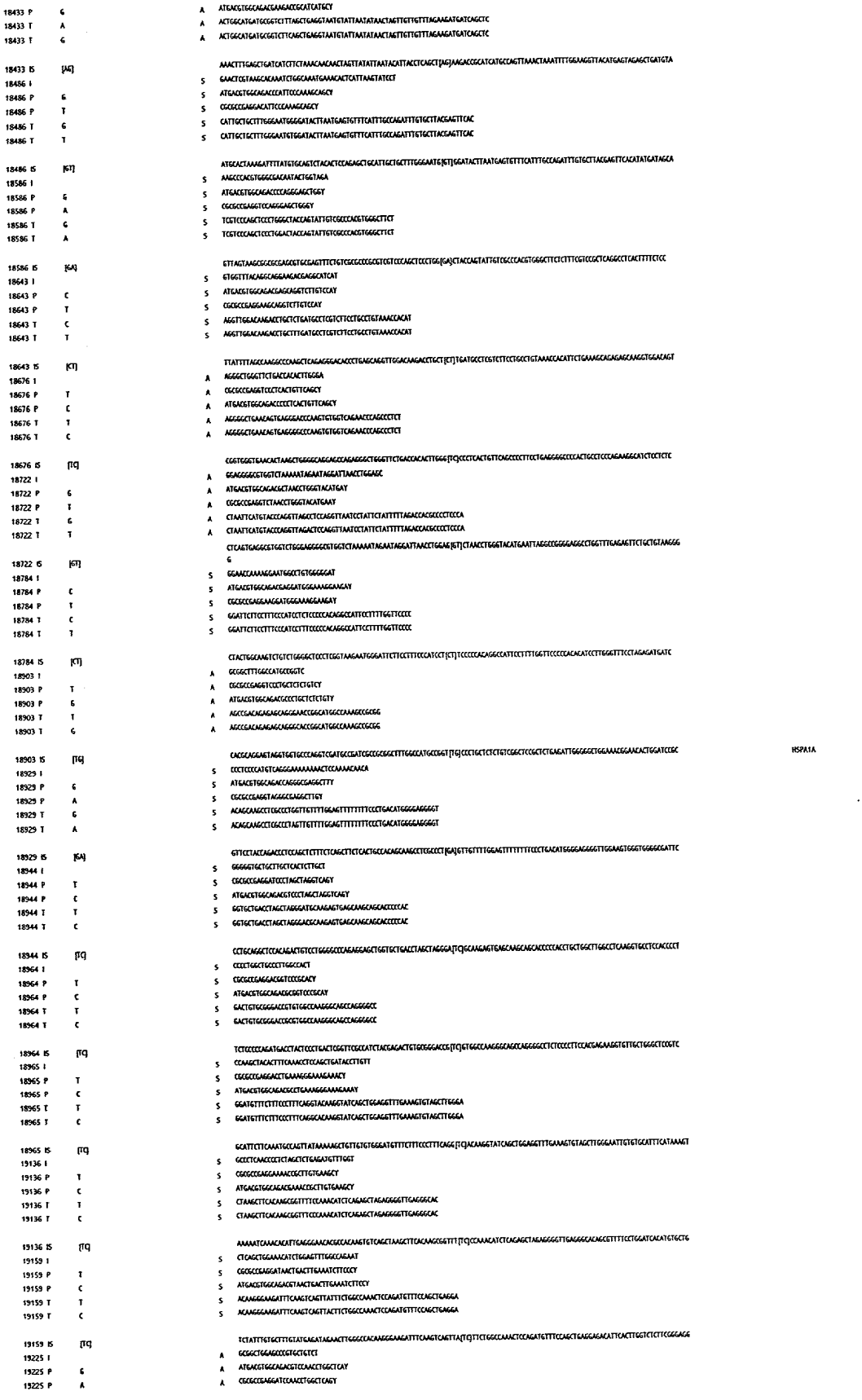
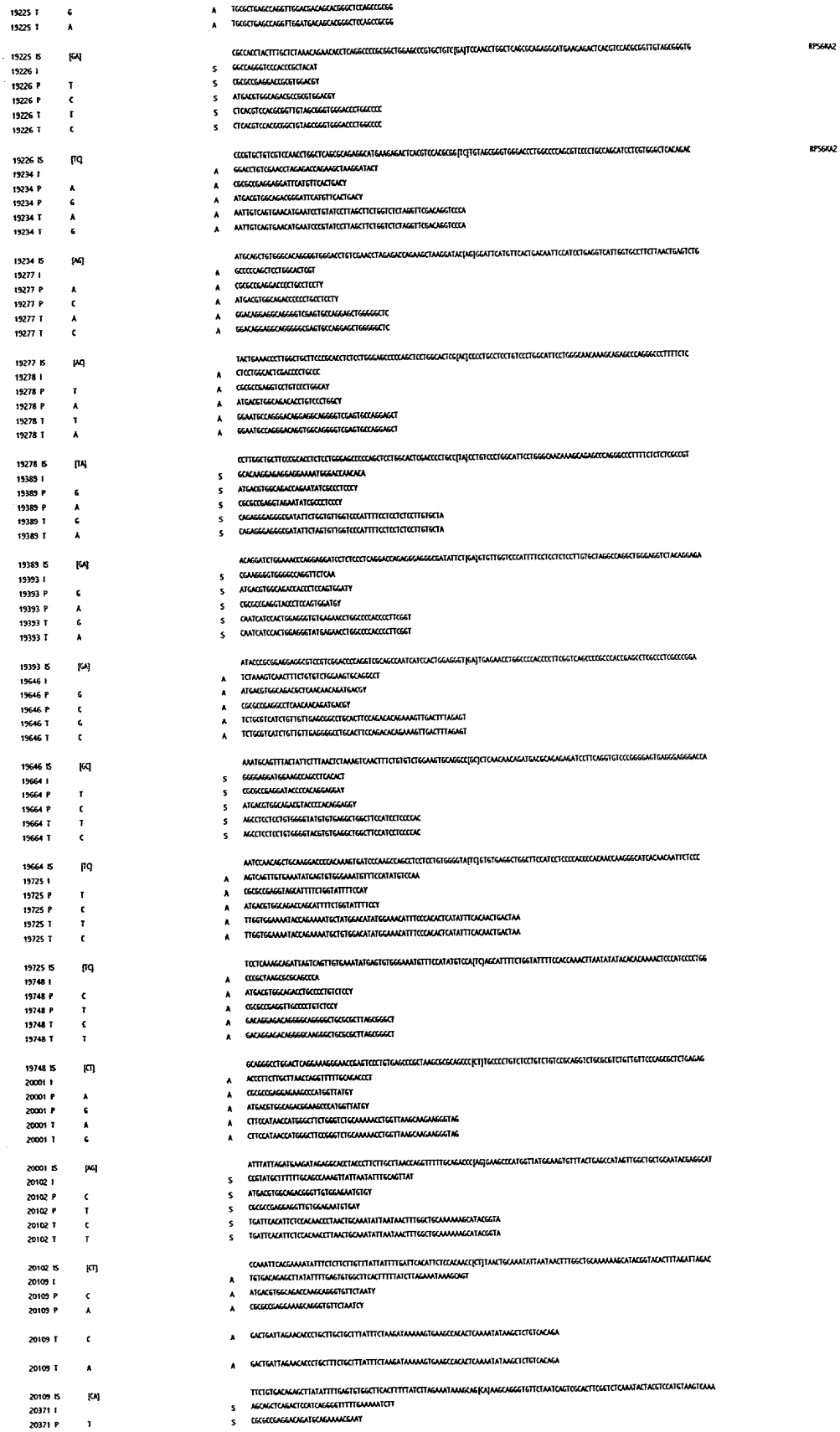


FIGURE 129F



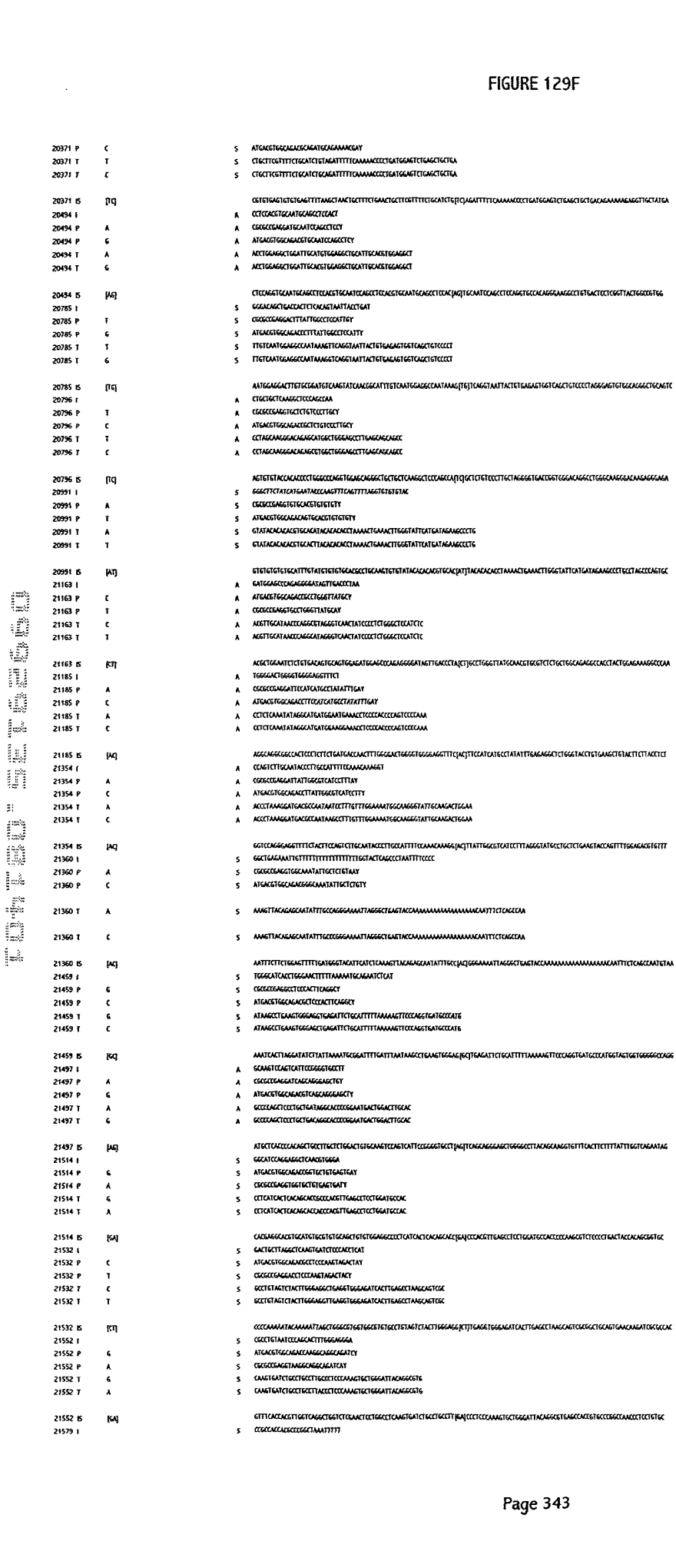


FIGURE 129F

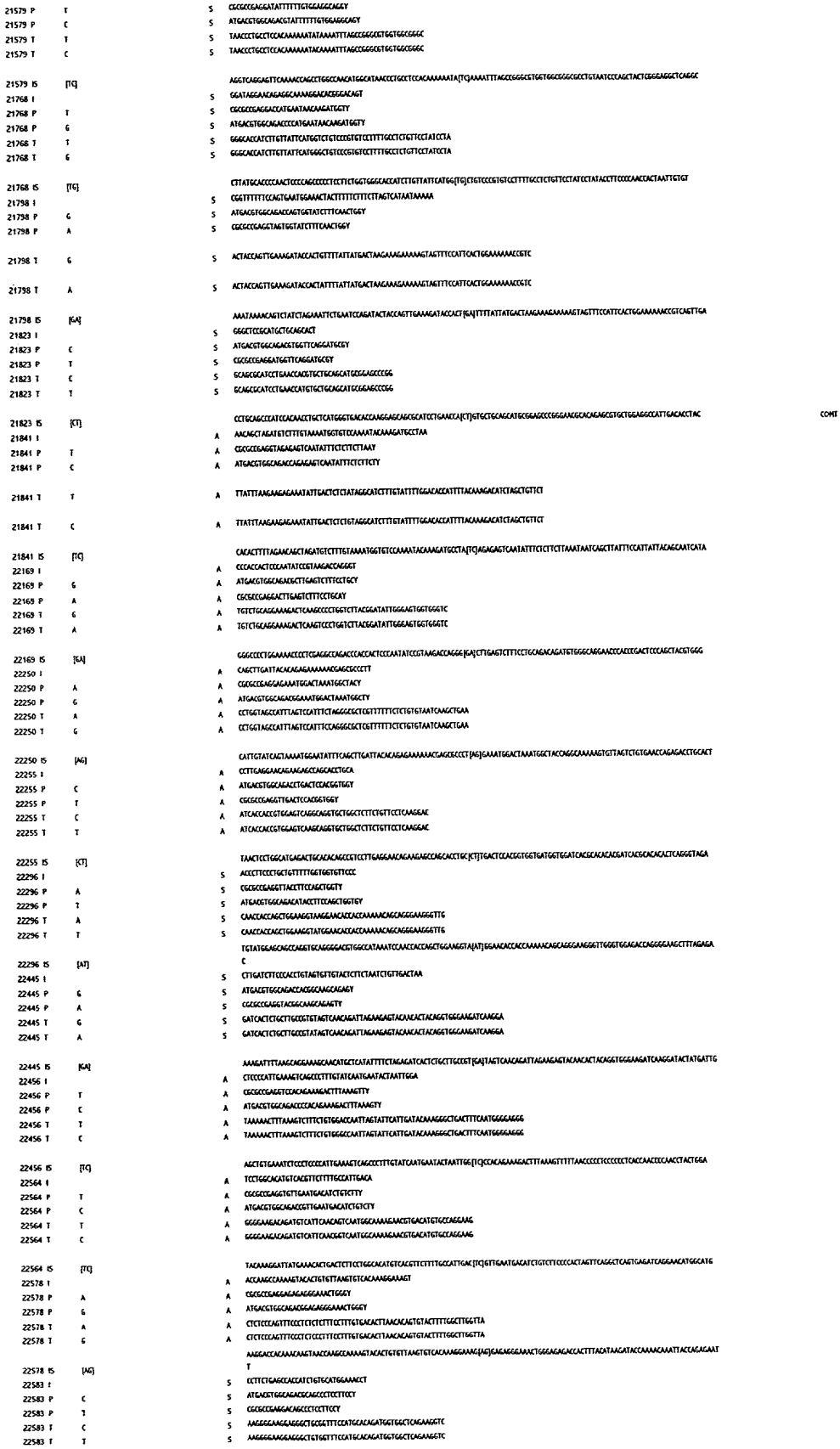
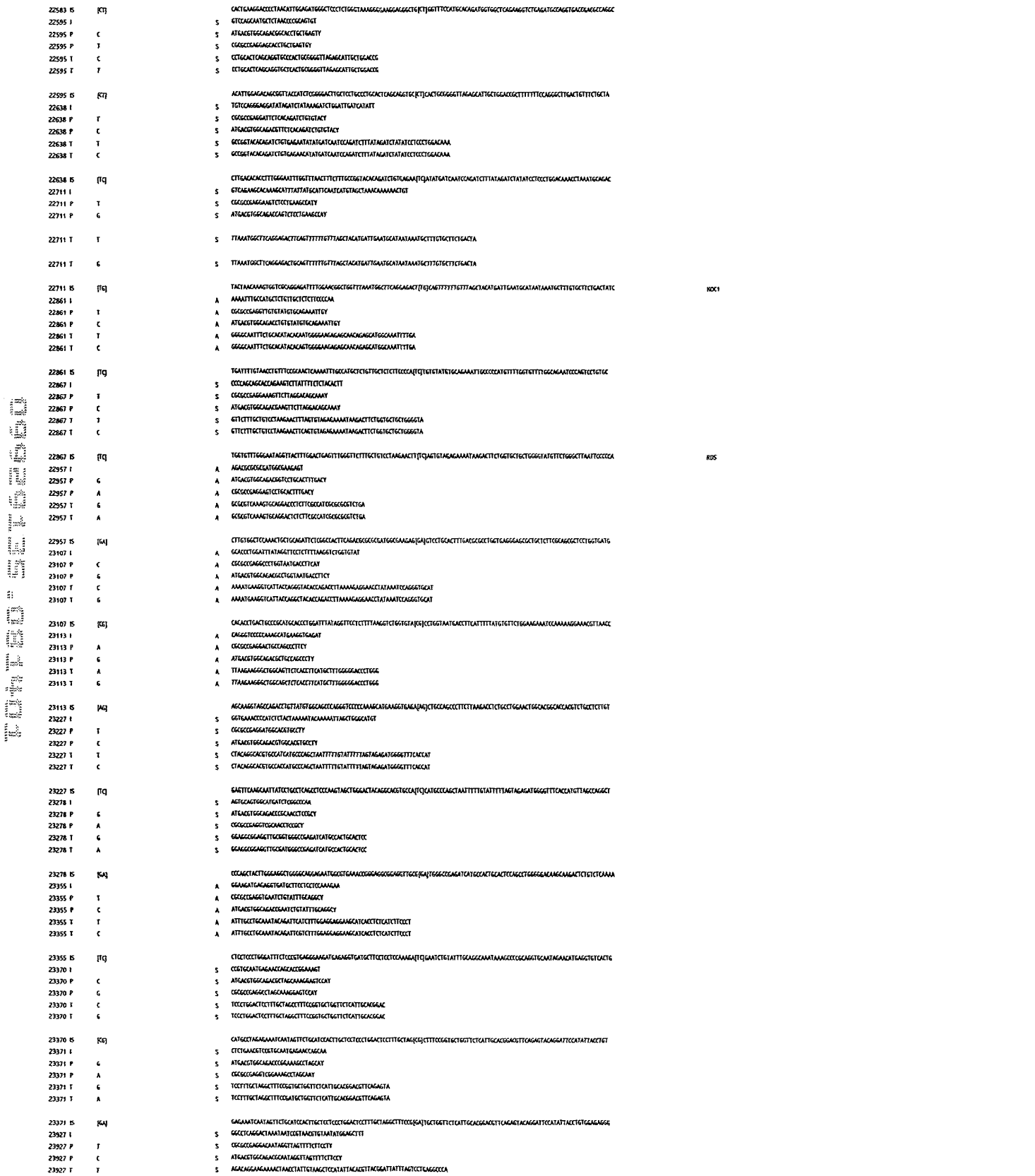
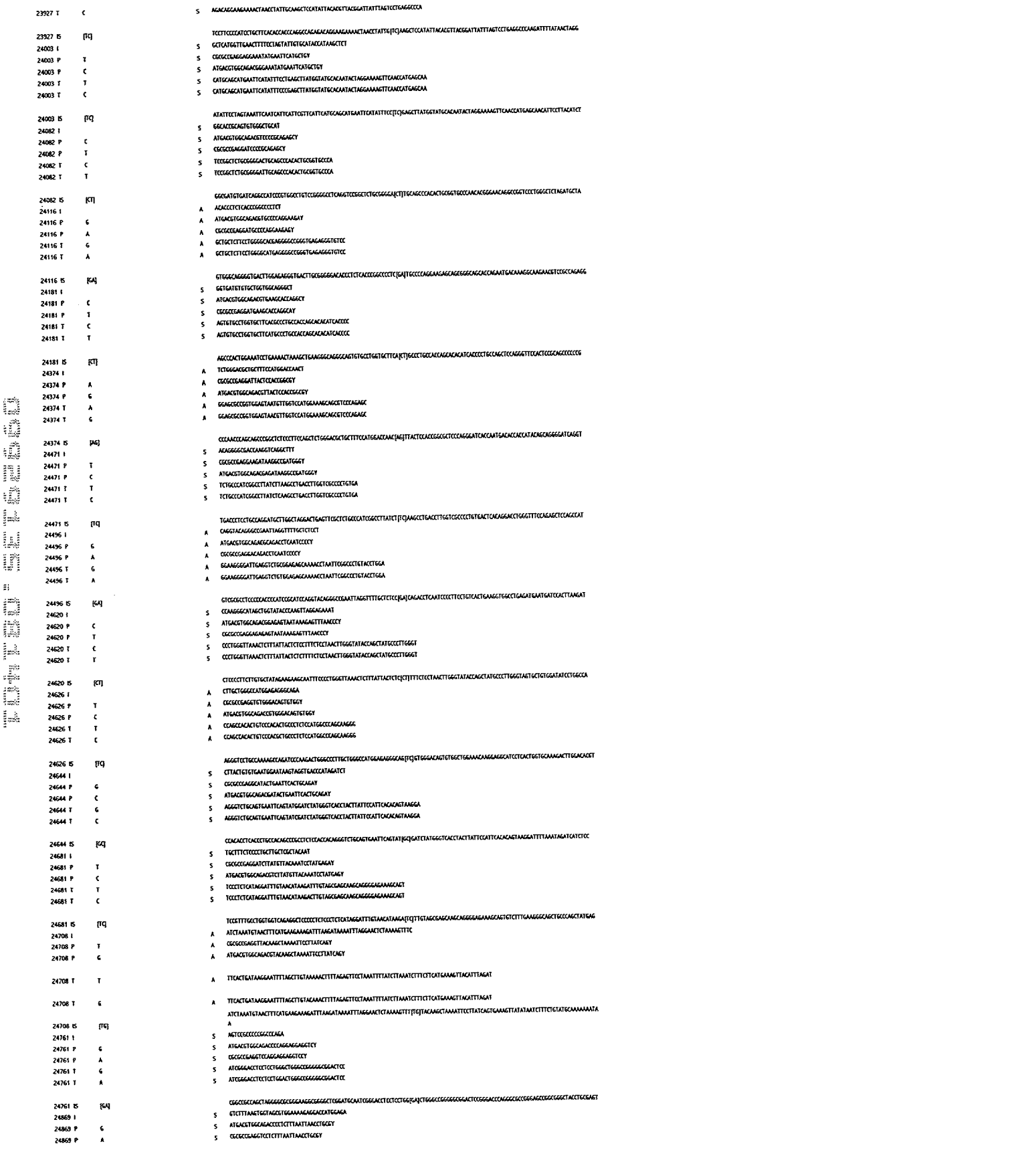


FIGURE 129F





Document ID: US 20030224385 A1 Publication Date: Dec. 4, 2003

FIGURE 129F

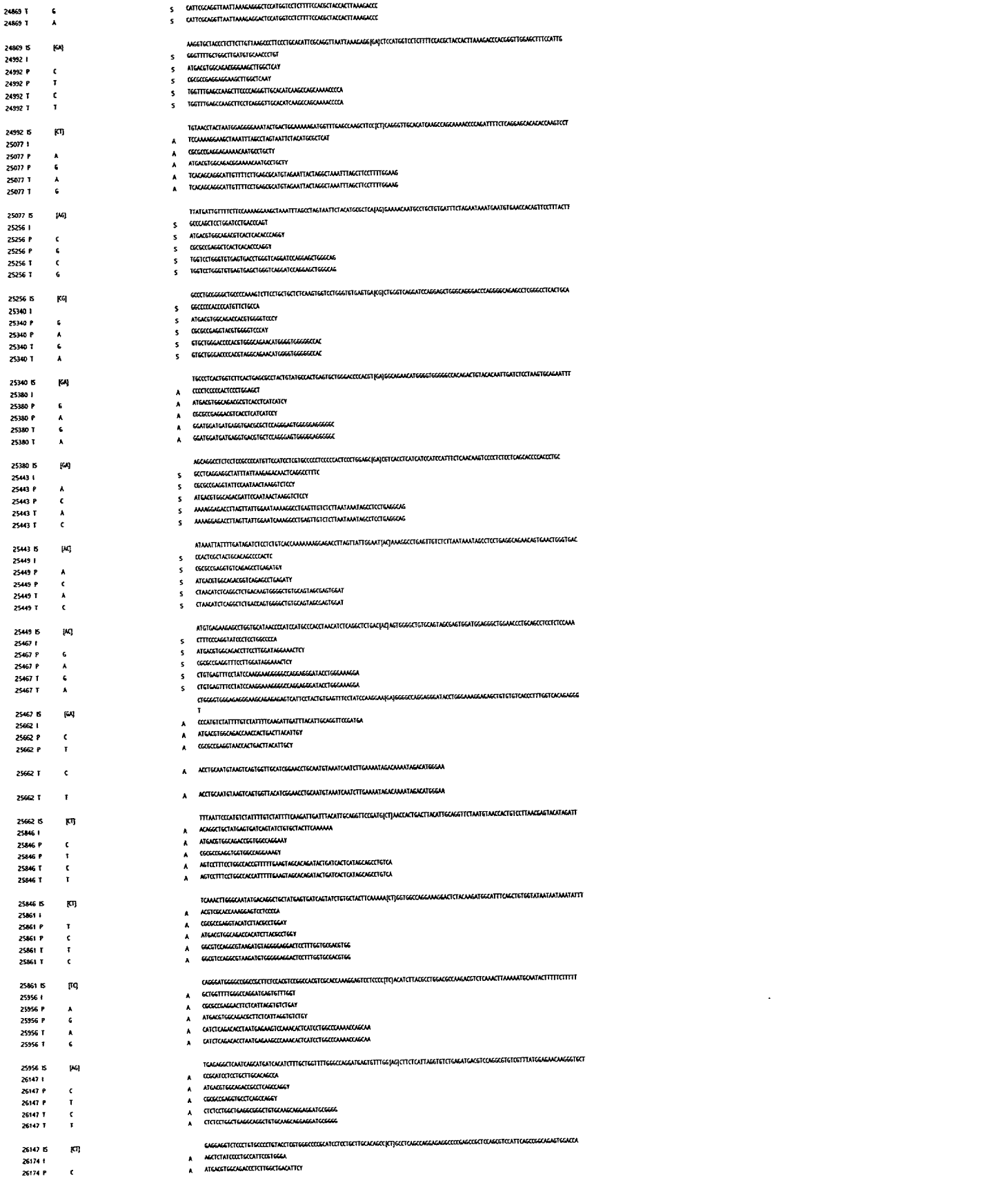


FIGURE 129F

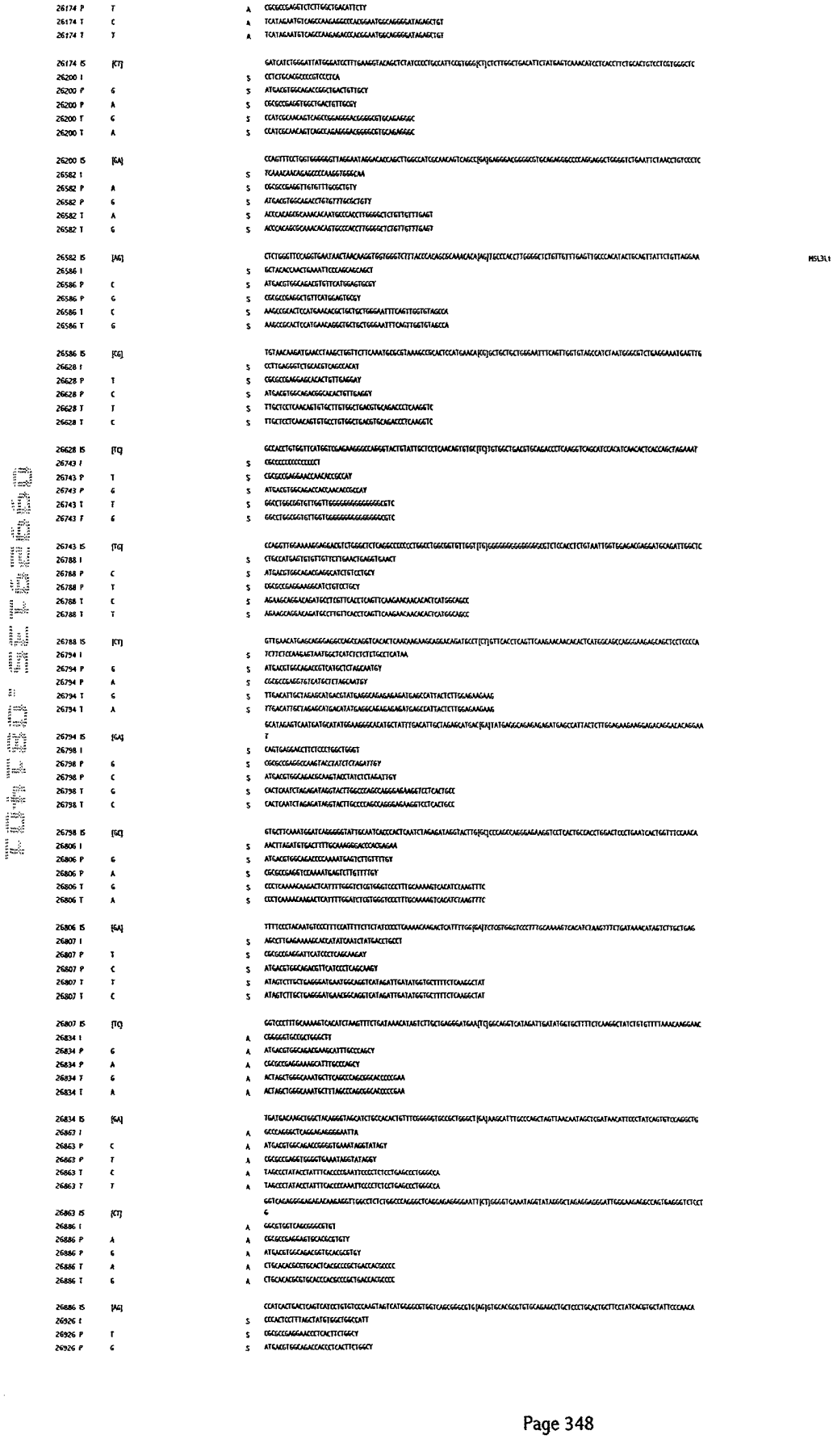

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26798 T G S CACTCAATCTAGAGATAGGTACTTGGCCCAGCCAGGGAGAAGGTCCTCACTGCC
26798 T C S CACTCAATCTAGAGATAGGTACTTGCCCCAGCCAGGGAGAAGGTCCTCACTGCC
26798 IS [GC] GTGCTTCAAATGGATCAGGGGGTATTGCAATCACCCACTCAATCTAGAGATAGGTACTTG[GC]CCCAGCCAGGGAGAAGGTCCTCACTGCCACCTGGACTCCCTGAATCACTGGTTTCCAACA
26806 I S AACTTAGATGTGACTTTTGCCAAGGGCACCCACAGAA
26806 P G S ATGACGTGGCAGACCCCAAAATGAGTCTTGTTTTGY
26806 P A S CGCGCCGAGGTCCAAAATGAGTCTTGTTTTGY
26806 T G S CCCTCAAACAAGACTCATTTTGGGTCTCGTGGGTCCCCTTTGCAAAAGTCACATCTAAGTTTC
26806 T A S CCCTCAAACAAGACTCATTTTGGATCTCGTGGGTCCCCTTTGCAAAAGTCACATCTAAGTTTC
26806 IS [GA] TTTTCCCTACAATGTCCCTTTCCATTTTCTTCTATCCCCTCAAAACAAGACTCATTTTGG[GA]TCTCGTGGGTCCCCTTTGCAAAAGTCACATCTAAGTTTCTGATAAACATAGTCTTGCTGAG
26807 I S AGCCTTGAGAAAAGCACATATCAATCTATGACCTGCCT
26807 P T S CGCGCCGAGGATTCATCCCTCAGCAAGAY
26807 P C S ATGACGTGGCAGAGTTCATCCCTCAGCAAGY
26807 T T S ATAGTCTTGCTGAGGGATGAATGGCAGGTCATAGATTGATATGGTGCTTTTCTCAAGGCTAT
26807 T C S ATAGTCTTGCTGAGGGATGAACGGCAGGTCATAGATTGATATGGTGCTTTTCTCAAGGCTAT
26807 IS [TC] GGTCCCTTTGCAAAAGTCACATCTAAGTTTCTGATAAACATAGTCTTGCTGAGGGATGAA[TC]GGCAGGTCATAGATTGATATGGTGCTTTTCTCAAGGCTATCTGTGTTTAAACAAGGAAC
26834 I A CGGGGGTGCCGCTGGGCTT
26834 P G A ATGACGTGGCAGACGAAGCATTTGCCCAGCY
26834 P A A CGCGCCGAGGAAAGCATTTGCCCAGCY
26834 T G A ACTAGCTGGGCAAATGCTTCAGCCCAGCGGCACCCCCGAA
26834 T A A ACTAGCTGGGCAAATGCTTAGCCCAGCGGCACCCCCGAA
26834 IS [GA] TGATGACAAGCTGGCTACAGGGTAGCATCTGCCACACTGTTTCGGGGGTGCCGCTGGGCT[GA]AAGCATTTGCCCAGCTAGTTAACAATAGCTCGATAACATTCCCTATCAGTGTCCAGGCTG
26863 I A GCCCAGGCTCAGGAGAGGGGAATTA
26863 P C A ATGACGTGGCAGACCGGGGTGAAATAGGTATAGY
26863 P T A CGCGCCGAGGTGGGGTGAAATAGGTATAGGY
26863 T C A TAGCCCTATACCTATTTCACCCCAAATTCCCCTCTCCTGAGCCCTGGGCCA
26863 T T A TAGCCCTATACCTATTTCACCCCAAATTCCCCTCTCCTGAGCCCTGGGCCA
26863 IS [CT] GGTCAGAGGGGAGAGACAAGAGGTTGGCCTCTCTGGCCCAGGGCTCAGCAGAGAGGGGAATT[CT]GGGGTGAAATAGGTATAGGGCTAGAGGAGGGATTGGGAAGAGGCCAGTGAGGGTCTCCT G
26886 I A GGCGTGGTCAGCGGGCGTGT
26886 P A A CGCGCCGAGGAGTGCACGCGTGTY
26886 P G A ATGACGTGGCAGACGGTGCACGCGTGY
26886 T A A CTGCACACGCGTGCACCTCACGCCCGCTGACCACTCCCC
26886 T G A CTGCACACGCGTGCACCCACGCCCGCTGACCACTCCCC
26886 IS [AG] CCATCACTGACTCAGTCATCCTGTGTCCCAAGTAGTCATGGGGCGTGGTCAGCGGCCGTG[AG]GTGCACGCGTGTGCAGAGCCTGCTCCCTGCACTGCTTCCTATCACGTGCTATTCCCAACA
26926 I S CCCACTCCTTTAGCTATGTGGCTGGCCATT
26926 P T S CGCGCCGAGGAACCCTCACTTCTGGCY
26926 P G S ATGACGTGGCAGACCACCCTCACTTCTGGCY

FIGURE 129F

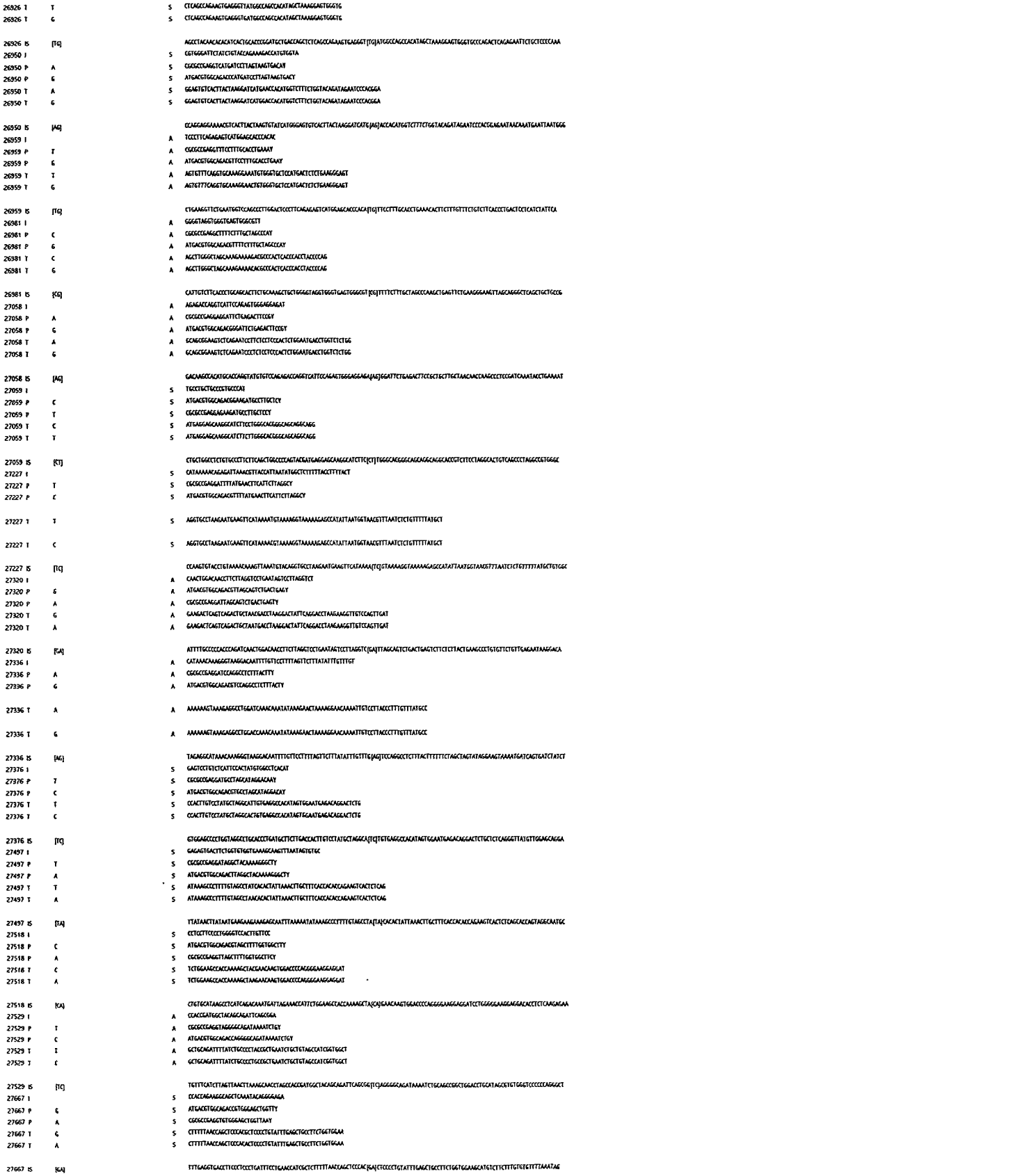


FIGURE 129F

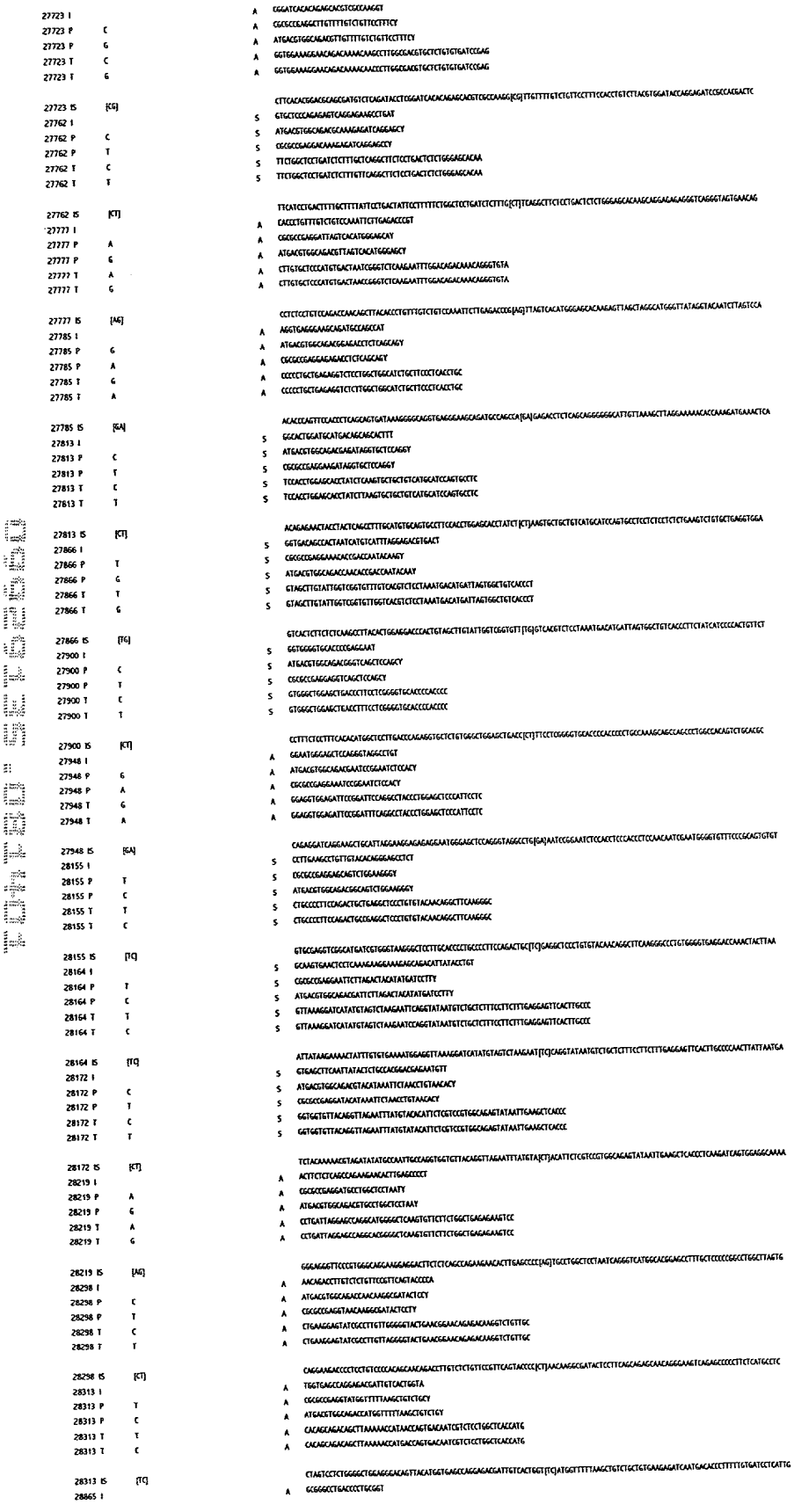
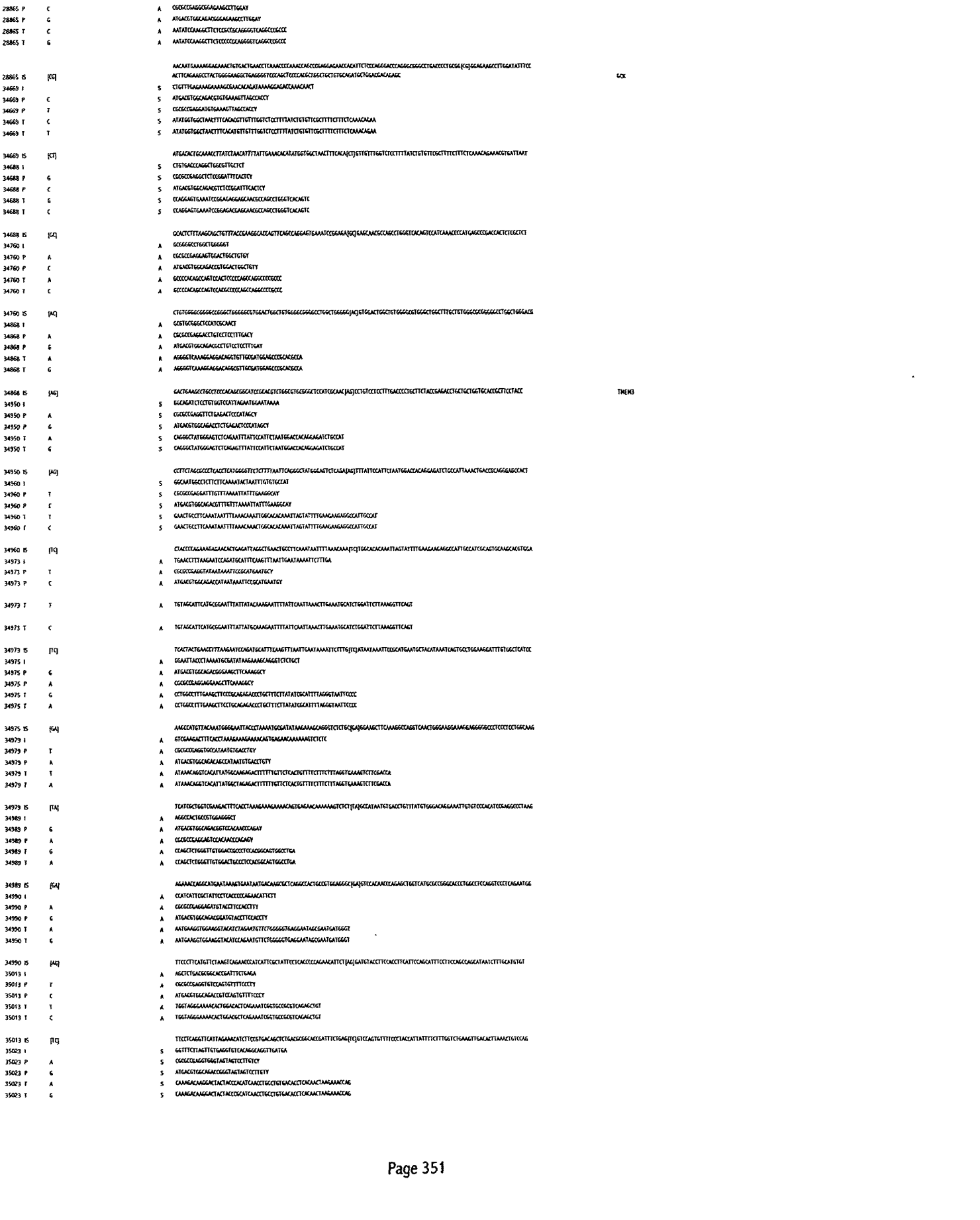
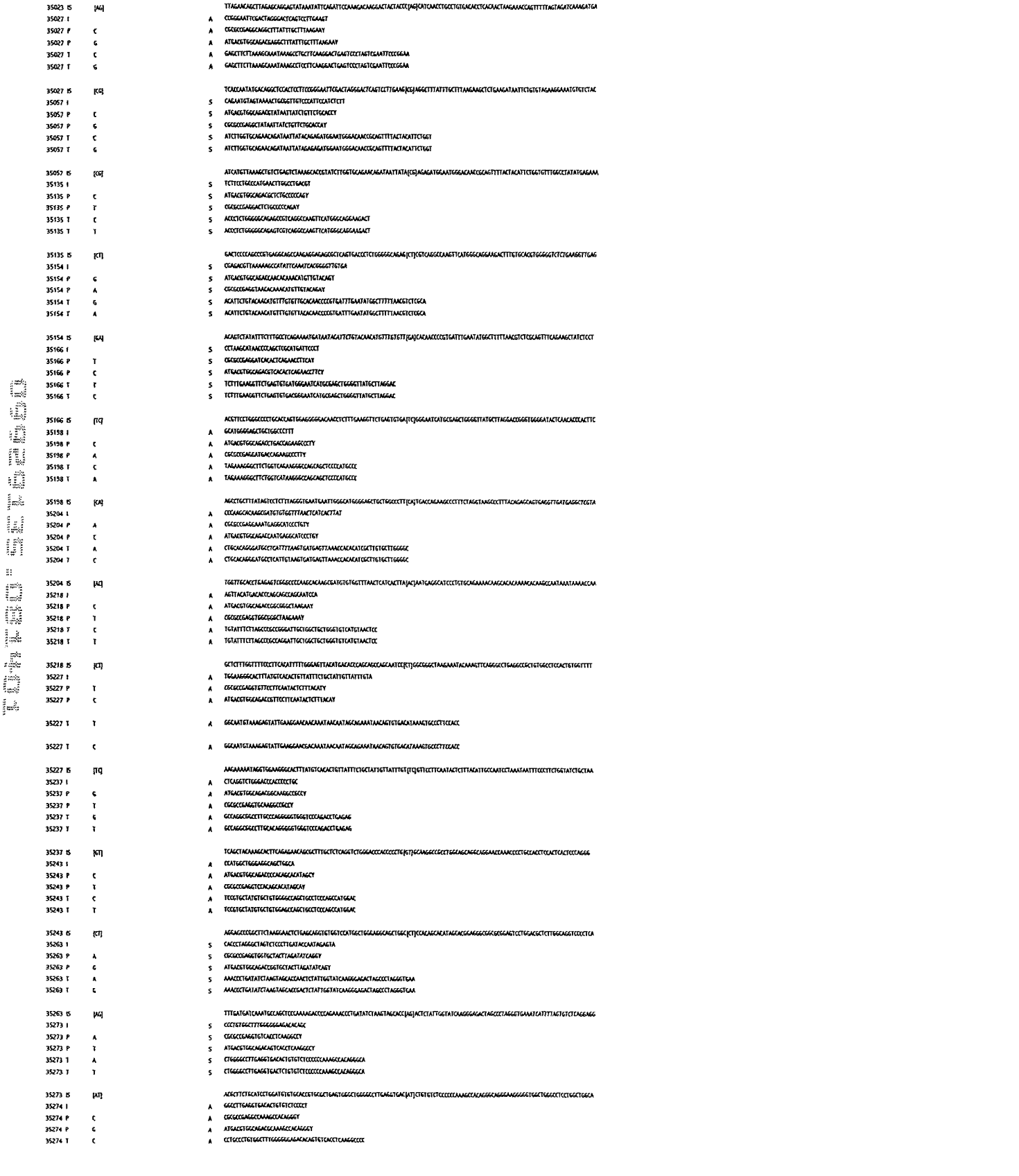
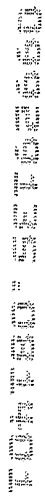


FIGURE 129F


28865 P C A CGCGCCGAGGCGGAGAAGCCTTGGAY
28865 P G A ATGACGTGGCAGACGGGAAGAAGCCTTGGAY
28865 T C A AATATCCAAGGCTTCTCCCCCGCAGAGGGTCAGGCCCGCCC
28865 T G A AATATCCAAGGCTTCTCCCCCGCAGAGGGTCAGGCCCGCCC
28865 IS [CG] GCX
34669 I S CTGTTTGAGAAAGAAAAGCGAACAACAGATAAAAGGAGAGCCAAACAACT
34669 P C S ATGACGTGGCAGACGTGTGAAAGTTAGCCACCY
34669 P T S CGCGCCGAGGATGTGAAAGTTAGCCACCY
34669 T C S ATATGGTGGCTAACTTTCACACGTTGTTTGGTCTCCTTTTATCTGTGTTCGCTTTTCTTTCTCAAACAGAA
34669 T T S ATATGGTGGCTAACTTTCACATGTTGTTTGGTCTCCTTTTATCTGTGTTCGCTTTTCTTTCTCAAACAGAA
34669 IS [CT] ATGACACTGCAAACCTTATCTAACATTYTATTGAAACACATATGGTGGCTAACTTTCACAJCTJGTTGTTTGGTCTCCTTTTATCTGTGTTCGCTTTTCTTTCTCAAACAGAAACGTGATTAAT
34688 I S CTGTGACCCAGGCTGGCGTTGCTCT
34688 P G S CGCGCCGAGGCTCTCCGGATTTCACTCY
34688 P C S ATGACGTGGCAGACGTCTCCGGATTTCACTCY
34688 T G S CCAGAGTGAAATCCGGAAGAGGAGCAACGCCAGCCTGGGTCACAGTC
34688 T C S CCAGGAGTGAAATCCGGAGACAGCAACGCCAGCCTGGGTCACAGTC
34688 IS [GC] GCACTCTTTAAGCAGCTGTTTACCGAAGGCACCAGTTCAGCCAGGAGTGAAATCCGGAGA[GC]GAGCAACGCCAGCCTGGGTCACAGTCCATCAAACCCCATGAGCCCGACCACTCTCGCTCT
34760 I GCGGGGCCTGGCTGGGGGT
34760 P A A CGCGCCGAGGAGTGGCACTGGCTGTGY
34760 P C A ATGACGTGGCAGACCGTGCACTGGCTGTY
34760 T A A GCCCCACAGCCAGTCCACTCCCCCAGCCAGCCCCGCCC
34760 T C A GCCCCACAGCCAGTCCACGCCCCCAGCCAGGCCCCGCCC
34760 IS [AC] CTGTGGGGCGGGGCGGGGCTGGGGGCGTGGACTGACTGTGGGGCGGGGCCTGGCTGGGGG[AC]GTGCACTGGCTGTGGGGCGTGGGCTGGCTTTGCTGTGGGCGCGGGGGCCTGGCTGGCACG
34868 I GCGTGCGGGCTCCATCGCAACT
34868 P A A CGCGCCGAGGACCTGTCCTCCTTTGACY
34868 P G A ATGACGTGGCAGACGCCTGTCCTCCTTTGAY
34868 T A A AGGGGTCAAAGGAGGACAGGTGTTGCGATGGAGCCCGCACGCCA
34868 T G A AGGGGTCAAAGGAGGACAGGCGTTGCGATGGAGCCCGCACGCCA
34868 IS [AG] GACTGAAGCCTGCCTCCCACAGCGGCATCCGCACGTCTGGCGTGCGGCTCCATCGCAAC[AG]CCTGTCCTCCTTTGACCCCTGCTTCTACCGAGACCTGCTGCTGGTGCACCGCTTCCTACC TMEM3
34950 I S GGCAGATCTCCTGTGGTCCATTAGAATGGAATAAAA
34950 P A S CGCGCCGAGGTTCTGAGACTCCCATAGCY
34950 P G S ATGACGTGGCAGACCTCTGAGACTCCCATAGCY
34950 T A S CAGGGCTATGGGAGTCTCAGAATTTATTCCATTCTAATGGACCACAGGAGATCTGCCAT
34950 T G S CAGGGCTATGGGAGTCTCAGAGTTTATTCCATTCTAATGGACCACAGGAGATCTGCCAT
34950 IS [AG] CCTTCTAGCGCCCTCACCTCATCGGGGGTTCTCTTTTAATTCAGGGCTATGGGAGTCTCAGA[AG]TTTATTCCATTCTAATGGACCACAGGAGATCTGCCATTAAACTGACCGCAGGGAGCCACT
34960 I S GGCAATGGCCTCTTCTTCAAAATACTAATTGTGTGCCAT
34960 P T S CGCGCCGAGGATTTGTTTAAAATTATTTGAAGGCAY
34960 P C S ATGACGTGGCAGACGTTTGTTTAAAATTATTTGAAGGCAY
34960 T T S GAACTGCCTTCAAATAATTTAAACAAATTGGCACACAAATTAGTATTTTGAAGAAGAGGCCATTGCCAT
34960 T C S GAACTGCCTTCAAATAATTTAAACAAACTGGCACACAAATTAGTATTTTGAAGAAGAGGCCATTGCCAT
34960 IS [TC] CTACCCCAGAAAGAGAACACTGAGATTAGGCTGAACTGCCTTCAAATAATTTTAAACAAA[TC]TGGCACACAAATTAGTATTTTGAAGAAGAGGCCATTGCCATCGCAGTGCAAGCAAGTGCA
34973 I A TGAACTTTAAGAATCCAGATGCATTTCAAGTTTAATTGAATAAAATTCTTTGA
34973 P T A CGCGCCGAGGTATAATAAATTCCGCATGAATGCY
34973 P C A ATGACGTGGCAGACATAATAAATTCCGCATGAATGY
34973 T T A TGTAGCATTCATGCGGAATTTATTATACAAAGAATTTTATTCAATTAAACTTGAAATGCATCTGGATTCTTAAAGGTTCAGT
34973 T C A TGTAGCATTCATGCGGAATTTATTATGCAAAGAATTTTATTCAATTAAACTTGAAATGCATCTGGATTCTTAAAGGTTCAGT
34973 IS [TC] TCACTACTGAACCTTTAAGAATCCAGATGCATTTCAAGTTTAATTGAATAAAATTCTTTG[TC]ATAATAAATTCCGCATGAATGCTACATAAATCAGTGCCTGGAAGGATTTGTGGCTCATCC
34975 I A GGAATTACCCTAAAATGCGATATAAGAAAGCAGGGTCTCTGCT
34975 P G A ATGACGTGGCAGACGGGAAGCTTCAAAGGCY
34975 P A A CGCGCCGAGGAGGAAGCTTCAAAGCCY
34975 T G A CCTGGCCTTTGAAGCTTCCCGCAGAGACCCTGCTTTCTTATATCGCATTTTAGGGTAATTCCCC
34975 T A A CCTGGCCTTTGAAGCTTCCTGCAGAGACCCTGCTTTCTTATATCGCATTTTAGGGTAATTCCCC
34975 IS [GA] AAGCCATGTTACAAATGGGGAATTACCCTAAAATGCGATATAAGAAAGCAGGGTCTCTGC[GA]GGAAGCTTCAAGGCCAGGTCAACTGGGAAGGAAAGGAAGGGGGCCCTCCCTCCTGGCAAG
34979 I A GTCGAAGACTTTCACCTAAGAAAGAAAACAGTGAGAACAAAAAAGTCTCTC
34979 P T A CGCGCCGAGGTGCCATAATGTGACCTGY
34979 P A A ATGACGTGGCAGACAGCCATAATGTGACCTGTY
34979 T T A ATAAACAGGTCACATTATGGCAAGAGACTTTTTGTTCTCACTGTTTTCTTTCTTTAGGTGAAAGTCTTCGACCA
34979 T A A ATAAACAGGTCACATTATGGCTAGAGACTTTTTGTTCTCACTGTTTTCTTTCTTTAGGTGAAAGTCTTCGACCA
34979 IS [TA] TCATCGCTGGTCGAAGACTTTCACCTAAAGAAAGAAAACAGTGAGAACAAAAAAGTCTCT[TA]GCCATAATGTGACCTGTTTATGTGGGACAGGAAATTGTGTCCCACATCCGAGGCCCTAAG
34989 I A ACGCCACTGCCGTGGAGGGCT
34989 P G A ATGACGTGGCAGACGGTCCACAACCCAGAY
34989 P A A CGCGCCGAGGAGTCCACAACCCAGAGY
34989 T G A CCAGCTCTGGGTTGTGGACTGCCCTCCACGGCAGTGGCCTGA
34989 T A A CCAGCTCTGGGTTGTGGACTGCCCTCCACGGCAGTGGCCTGA
34989 IS [GA] AGAAACAGGCATGAATAAAGTGAATAATGACAAGCGCTCAGGCCACTGCCGTGGAGGGC[GA]GTCCACAACCCAGAGCTGGTCATGCGCCGGGCACCCTGGCCTCCAGGTCCCTCAGAATGG
34990 I A CCATCATTCGCTATTCCTCACCCCAGAACATTCTT
34990 P A A CGCGCCGAGGAGATGTACCTCCACCTTY
34990 P G A ATGACGTGGCAGACGGATGTACCTTCCACCTY
34990 T A A AATGAAGGTGGAAGGTACATCTAGAATGTTCTGGGGGTGAGGAATAGCGAATGATGGGT
34990 T G A AATGAAGGTGGAAGGTACATCCAGAATGTTCTGGGGGTGAGGAATAGCGAATGATGGGT
34990 IS [AG] TTCCCTTCATGTTCTAAGTCAGAACCCATCATTCGCTATTCCTCACCCCAGAACATTCT[AG]GATGTACCTTCCACCTTCATTCCAGCATTTCCTTCCAGCCAGCATAATCTTTGCATGTGT
35013 I A AGCTCTGACGCGGCCACCGATTTCTGAGA
35013 P T A CGCGCCGAGGTGTCCAGTGTTTTCCCTY
35013 P C A ATGACGTGGCAGACCGTCCAGTGTTTTCCCT
35013 T T A TGGTAGGGAAAACACTGGACACTCAGAAATCGGTGCCGCGTCAGAGCTGT
35013 T C A TGGTAGGGAAAACACTGGACGCTCAGAAATCGGTGCCGCGTCAGAGCTGT
35013 IS [TC] TTCCTCAGGTTCATTAGAAACATCTTCCGTGACAGCTCTGACGCGGCACCGATTTCTGAG[TC]GTCCAGTGTTTCCCTACCATTATTTTCTTTGGTCTGAAGTTGACACTTAAACTGTCCAG
35023 I S GGTTTCTTAGTTGTGAGGTGTCACAGGCAGGTTGATGA
35023 P A S CGCGCCGAGGTGGGTAGTAGTCCTTCTCY
35023 P G S ATGACGTGGCAGACCGGGTAGTAGTCCTTGTY
35023 T A S CAAAGACAAGGACTACTACCCACATCAACCTGCCTGTGACACCTCACAACTAAGAAACCAG
35023 T G S CAAAGACAAGGACTACTACCCGCATCAACCTGCCTGTGACACCTCACAACTAAGAAACCAG





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35274 T   G   A   CCTGCCCTGTGGCTTTGCGGGGCAGACACAGTGTCACCTCAAGGCCCC

35274 IS  [CG]    CTGGATGTGTGCACCGTGCGCTGAGTGGGCTGGGGCCTTGAGGTCACACTGTGTCTCCCC[CG]CAAAGCCACAGGGCAGGGAAGGGGGTGGCTGGGCCTCCTGGCTGGCAAAGGCTCTACTT
35323 I       A   TGAGGTCTCCCTGGCCTGCCTGCT
35323 P   A   A   CGCGCCGAGGAAGGCATGCAGAGGAY
35323 P   G   A   ATGACGTGGCAGACGAGGCATGCAGAGGAY
35323 T   A   A   AGTTTCCTCTGCATGCCTTGCAGGCAGGCCAGGGAGACCTCATC
35323 T   G   A   AGTTTCCTCTGCATGCCTGCAGGCAGGCCAGGGAGACCTCATC
                  TCGGGTGAAGGCAGGTGTTAAGAAGGCTTCTAGGGGATGAGGCTCTCCCTGGCCTGCCTGC[AG]AGGCATGCAGAGGAAACTGGATTGTGACAAGCATCTAGGGGTTGTAAGTGGCAGTGGTT
35323 IS  [AG]       T
35340 I       S   GCCAGGGTCCCAGGCCTGAGTTGAA
35340 P   A   S   CGCGCCGAGGTGCCTCTGGGTGAGY
35340 P   G   S   ATGACGTGGCAGACCGCCTCTGGGTGAGY
35340 T   A   S   CCAGCTCACCCAGAGGCATCAACTCGGCCTGGGACCCTGGCCA
35340 T   G   S   CCAGCTCACCCAGAGGCGTCAACTCGGCCTGGGACCCTGGCCA

35340 IS  [AG]    TGTCTGCGGGGGAGGCTGGTGGAGCTCAGGGGGTGCGGGGAGCCCAGCTCACCCAGAGGC[AG]TCAACTCGGGCCTGGGACCCTGGCCAGGCCCACGTGCACCTGCCTGGCAGTGCAGGGCACC
35358 I       A   GCCTGGGTAACTGACATGGCCTGGCT
35358 P   A   A   CGCGCCGAGGAGTGGCTGCAGAGGAY
35358 P   C   A   ATGACGTGGCAGACCGTGCTGGCAGAGGY
35358 T   A   A   TAACTCCTCTCCAGCCACTGCCAGCCCATGTCAGTTACCCAGGCAC
35358 T   C   A   TAACTCCTCTCCAGCCACGGCCCAGCCCATGTCAGTTACCCAGGCAC

35358 IS  [AC]    GCCCCTGCCTGGGTGTGGGCATTCCTAGCAGCTGTGCCTGGGTAACTGACATGGGCTGGC[AC]GTGGCTGGAGAGGAGTTATTCTGATGTCCTTTCATGTGTTTCCATATATGAAGCCATGG
35374 I       S   GGAGATGCATAATTTATCTTGGAAAACTTTTTTTCAAAATTGATCAAGGT
35374 P   T   S   CGCGCCGAGGATAAAACACAAACCTATTTCAATGAY
35374 P   C   S   ATGACGTGGCAGACGTAAAACACAAACCTATTTCAATGY

35374 T   T   S   GACATCATTGAAATAGGTTTGTGTTTTATCCTTGATCAATTTTGAAAAAAAAGTTTTCCAAGATAAATTATGCATCTCCCA

35374 T   C   S   GACATCATTGAAATAGGTTTGTGTTTTACCCTTGATCAATTTTGAAAAAAAAGTTTTCCAAGATAAATTATGCATCTCCCA

35374 IS  [TC]    TCTGAAACTCAGGTGTTTCACAAAATGAACTTGACATCATTGAAATAGGTTTGTGTTTTA[TC]CCTTGATCAATTTTGAAAAAAAAGTTTTCCAAGATAAATTATGCATCTCCCAACCTTACT
35379 I       S   GCTATCCCTCCCCTCAGTTCCTTCTTCTTTATTGCCT
35379 P   T   S   CGCGCCGAGGATCTTCCTCTGTGGATGTY
35379 P   C   S   ATGACGTGGCAGACGTCTTCCTCTGTGGATGTY
35379 T   T   S   ATCAACATCCACAGAGGAAGATGGCAATAAAGAAAGAAGGAACTGAGGGCAGGGATAGCCA
35379 T   C   S   ATGAACATCCACAGAGGAAGAACGGCAATAAAGAAAGAAGGAACTGAGGGCAGGGATAGCCA
                  AGGGTGCTTCCAGAAGGCTCAGAATCAAGAGTTGGGGAGATGAACATCCACAGAGGAAGA[TC]GGCAATAAAGAAAGAAGGAACTGAGGGCAGGGATAGCCAGAGGGATGACTAGAAGGGC
35379 IS  [TC]    TC
35382 I       S   GGTATGTTTGCCTAGATACCCAAAGGAATGTTTTTCCACCTTTT
35382 P   T   S   CGCGCCGAGGATTCTTTAAAGCCCACTAGTTAY
35382 P   C   S   ATGAGTGGCAGACGTTCTTTAAAGCCCACTAGTY
35382 T   T   S   AAACTAACTAGTGGGCTTTAAAGAATAAAGGTGGAAAAACATTCCTTTGGGTATCTAGGCAAACATACCAA
35382 T   C   S   AAACTAACTAGTGGGCTTTAAAGAACAAAGGTGGAAAAACATTCCTTTGGGTATCTAGGCAAACATACCAA
                  AAAAAAATAATCAACCTACAGCAGCCAATACTATAAAACTAACTAGTGGGCTTTAAAGAA[TC]AAAGGTGGAAAAACATTCCTTTGGGTATCTAGGCAAACATACCAACTTAAATTTGAGGG
35382 IS  [TC]    A
35447 I       A   CTCTGGCTGGCTTTGCTGTGTCCTTTTTGTTTTCTCTTT
35447 P   A   A   CGCGCCGAGGAGGCTTGTGTCTCACTY
35447 P   G   A   ATGACGTGGCAGACGGGCTTGTGTCTCACTY
35447 T   A   A   ACAGAGTGAGACACAAGCCTAAGACAAAACAAAAAGAACACAGCAAGCCAGCCAGAGCA
35447 T   G   A   ACAGAGTGAGACACAAGCCCAAGACAAAACAAAAAGAACACAGCAAGCCAGCCAGAGCA

35447 IS  [AG]    GTGAGCACACCCTGAAGTCATGCTCTGGCTGGCTTTGCTGTGTTCTTTTTGTTTTCTCCTT[AG]GGCTTGTGTCTCACTCTGTGTTGGGTAGGAAAGGGTTTCTGTAGCCTTTATACCCTTGTT
35473 I       A   TCCTGATTACAGGGCAGTAGCAATGGTTTATTTTTTAAATGTATAA
35473 P   T   A   CGCGCCGAGGTAGTTCAGCTCTGTAAATAACATY
35473 P   C   A   ATGACGTGGCAGACCAGTTCAGCTCTGTAAATAACAY
35473 T   T   A   AAGAATGTTATTTACAGAGCTGAACTATATACATTTAAAAAATAAACCATTGCTACTGCCCTGTAATCAGGAGA
35473 T   C   A   AAGAATGTTATTTACAGAGCTGAACTGTATACATTTAAAAAATAAACCATTGCTACTGCCCTGTAATCAGGAGA

35473 IS  [TC]    GGTTATTATCAAGTCTCCTGATTACAGGGCAGTAGCAATGGTTTATTTTTTAAATGTATA[TC]AGTTCAGCTCTGTAAATAACATCTTCTTGGAAGTGGGCATTTGATGCCTCTTTGTCATC
35523 I       S   AGGAGCTGCTGTCTCCAAAGCAGCCATA
35523 P   A   S   CGCGCCGAGGTCTTTAATCATGTCATTTGAAATGY
35523 P   G   S   ATGAGTGGCAGACCCTTTAATCATGTCATTTGAAATGY
35523 T   A   S   AGTGCATTTCAAATGACATGATTAAAGAATGGCTGCTTTGGAGACAGCAGCTCCTTC
35523 T   G   S   AGTGCATTTCAAATGACATGATTAAAGGATGGCTGCTTTGGAGACAGCAGCTCCTTC

35523 IS  [AG]    CCAGACTTCCTATATGAATTTGACATAGCTTTAAGTGCATTTCAAATGACATGATTAAAG[AG]ATGGCTGCTTTGGAGACAGCAGCTCCTTCTCTCTTAAAGAAATAAACTATCATGCTAAAA
35530 I       S   GCTCTACTCCACCCCAAGACAACTATACTTCTGTTCACTCTTTTTAC
35530 P   A   S   CGCGCCGAGGTAAACCACTGGGAATATTTATTCTY
35530 P   C   S   ATGACGTGGCAGACGAAACCACTGGGAATATTTATTCY

35530 T   A   S   GCTTAGAATAAATATTCCCAGTGGTTTATAAAAAGAGTGAACAGAAGTATAGTTGTCTTGGGGTGGAGTAGAGCTG

35530 T   C   S   GCTTAGAATAAATATTCCCAGTGGTTTCTAAAAAGAGTGAACAGAAGTATAGTTGTCTTGGGCTGGAGTAGAGCTG

35530 IS  [AC]    AAAGAGATCTCTGGGGTTTAGAGACATAGTTTCGCTTAGAATAAATATTCCCAGTGGTTT[AC]TAAAAAGAGTGAACAGAAGTATAGTTGTCTTGGGCTGGAGTAGAGCTGAGCTAGATGGC
35571 I       A   A   GTTGAGGTGACTGGGTTGATTTTAGCTTCACAGGTGATT
35571 P   C   A   ATGACGTGGCAGACCTGAACCCAGCTGAGTY
35571 P   A   A   CGCGCCGAGGATGAACCCAGCTGAGTY
35571 T   C   A   AGCGACTCAGCTGGGTTCAGATCACCTGTGAAGCTAAAATCAACCCAGTCACCTCAACTC
35571 T   A   A   AGCCACTCAGCTGGGTTCATATCACCTGTGAAGCTAAAATCAACCCAGTCACCTCAACTC

35571 IS  [CA]    GAACTGTGCTGAGTGTTACTGAGTTGAGGTGACTGGGTTGATTTTAGCTTCACAGGTGAT[CA]TGAACCCAGCTGAGTGGCTTCCATGGAGCTGATCTGAACCCAGCTGAGTGGCTTCCATGG
35576 I       S   CCTGTGTCAATCCTGGGGCCTGGAGTT
35576 P   C   S   ATGACGTGGCAGACGGAAGGTGTGGCCTY
35576 P   T   S   CGCGCCGAGGAGAAGGTGTGGCCTGY
35576 T   C   S   ACACCAGGCCACACCTTCCACTCCAGGCCCCAGGATTGACACAGGCC
35576 T   T   S   ACACCAGGCCACACCTTCTACTCCAGGCCCCAGGATTGACACAGGCC

35576 IS  [CT]    ACAGTGGCATTCAAGTCTGGTCCCCCTGCAGCCATGTCTT[CA]CACCAGGCCACACCTTC[CT]ACTCCAGGCCCCAGGATTGACACAGGCCCGCCCACAGTCTCCTTGGTGGAGCCCCCACCC
35600 I       S   GGCGGGAGCTGGCCCGGTCA
35600 P   G   S   ATGACGTGGCAGACCACCTGGCCGTGCY
35600 P   A   S   CGCGCCGAGGTACCTGGCCGTGCY
35600 T   G   S   GAGTGCACGCCAGGTGCACCGGGCCAGCTCCCGCCTG
35600 T   A   S   GAGTGCACGCCAGGTAGACCGGGCCAGCTCCCGCCTG

35600 IS  [CA]    GAGGACCAGGCCCGCCTGGCGCAGCCTAGGGTGCAGACCCCTGGAGTGCACGGCAGGT[CA]GACCGGCCAGCTCCCGCCTGCTGCCTGTGCTTAGGACCAGTGGTTGACGTTGCTGTGGC
35628 I       S   CTTTGACGGATAAACCAACCATCGCCTGTCACCT
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35628 P   C                    S   ATGACGTGGCAGACGTGTCTTTGGCTGCTY
35628 P   T                    S   CGCGCCGAGGATGTTCTTTGGCTGCTTTY
35628 T   C                    S   CAACAAAGCAGCCAAAGAACACGGTCACAGGCGATGGTTGGTTTATCCGTCAAAGAG
35628 T   T                    S   CAACAAAGCAGCCAAAGAACATGGTGACAGGCGATGGTTGGTTTATCCGTCAAAGAG

35628 IS  [CT]                     GTTTGACCCAGAGACCCTGTCAGGGGCCTGGAGTTGGAACAACAAAGCAGCCAAAGAACA[CT]GGTGACAGGCGATGGTTGGTTTATCCGTCAAAGAGGTCCTGTGAGTTGGGGAGGGGCATA
35632 I                    A   TGTCCCTCACCTGGCCAGACTCTTTAGCTA
35632 P   C                A   ATGACGTGGCAGACCCTCCCTGGTTTCCAY
35632 P   T                A   CGCGCCCAGGTCTCCCCTGGTTTCCAGY
35632 T   C                A   GTGGCTGGAAAACCAGGGAGGAGCTAAAGAGTCTGGCCAGGTGAGGGACAGC
35632 T   T                A   GTGGCTGGAAAACCAGGGAGGAGCTAAAGAGTCTGGCCAGGTGAGGGACAGC

35632 IS  [CT]                     TCACTACGTCAACAGTCCCTGCACCTGCTGCTGTCCCTCACCTGGCCAGACTCTTTAGCT[CT]CTCCCTGGTTTCCAGCCACTGGCTCTCTTGCCTAGCCTTCCCATGTAGCCTGGCATTG
35641 I                    S   ACCGCAAACATTAGAGAAGCAGATTGAAAACAATGTGTACAGGATATT
35641 P   T                S   CGCGCCGAGGAGAGGAAAACTCGTTATCTGY
35641 P   C                S   ATGACGTGGCAGACGGAGAGAAACTCGTTATCTGY
35641 T   T                S   TATACAGATAACGAGTTTCCTCTATATCCTGTACACATTGTTTCAATCTGCTTCTCTAATGTTTGCGGTGT
35641 T   C                S   TATACAGATAACGAGTTTCCTCCATATCCTGTACACATTGTTTCAATCTGCTTCTCTAATGTTTGCGGTGT

35641 IS  [TC]                     TAGTGGTTTTCCATTGAACCTGTGCTCCAGGCACAGATATACAGATAACGAGTTTCCTC[TC]ATATCCTGTACACATTGTTTCAATCTGCTTCTCTAATGTTTGCGGTGTTGCATTCCTTA
35653 I                    S   CATGACACATGGGCACTCTGAGGTTCAAATTT
35653 P   T                S   CGCGCCGAGGAGACGGTACCAATTTTTGTAACAY
35653 P   C                S   ATGACGTGGCAGACGCGGTACCAATTTTTGTAACY
35653 T   T                S   ACAGTGTTACAAAAATTGGTACCGTAATTTGAACCTCAGAGTGCCCATGTGTCATGTT
35653 T   C                S   ACAGTGTTACAAAAATTGGTACCGCAATTTGAACCTCAGAGTGCCCATGTGTCATGTT

35653 IS  [TC]                     CCTTCGTCTTCTCTTATCCTGGATTTAGGGCCTCTCACAGTGTTACAAAAATTGGTACCG[TC]AATTTGAACCTCAGAGTGCCCATGTGTCATGTTACTTTTCTCCCAGGTGTTCAGCAGCCT
35669 I                    S   CATCTACCGCCATGTCTGACTTGTCTATTTAAACAATTCTCTATAGACCATAT
35669 P   T                S   CGCGCCGAGGAGCAGCTAACAGGGAAAATAGY
35669 P   G                S   ATGACGTGGCAGACCAGCTAACAGGGAAAATAGY

35669 T   T                S   AGATCTATTTTCCCTGTTAGCTGTTATGGTCTATAGAGAATTGTTTAAATAGACAAGTCAGACATGGGGTAGATGGA

35669 T   G                S   AGATCTATTTTCCCTGTTAGCTGGTATGGTCTATAGAGAATTGTTTAAATAGACAAGTCAGACATGGCGGTAGATGGA

35669 IS  [TG]                     ACTTAGATTCATATTTAAAGAGCATTCTACACAAACAGATCTATTTTCCCTGTTAGCTG[TG]TATGGTCTATAGAGAATTGTTTAAATAGACAAGTCAGACATGGCGGTAGATGGAATGTTC
35696 I                    S   ACCCTAATTCTACTCCTTTCAGAGCCCAGAGATTTTTTTCTCCCTAT
35696 P   C                S   ATGACGTGGCAGACGGAGGAAATGGCCTCAY
35696 P   T                S   CGCGCCGAGGAGAGGAAATGGCCTCATY
35696 T   C                S   CATTATGAGGCCATTTCCTCCTAGGAGAAAAAAAATCTCTGGGCTCTGAAAGGAGTAGAATTAGGGTAG
35696 T   T                S   CATTATGAGGCCATTTCCTCTTAGGAGAAAAAAAATCTCTGGGCTCTGAAAGGAGTAGAATTAGGGTAG

35696 IS  [CT]                     CCTCTGTGGGGTGAAGAAGACTTAGCACACCATGGGGCACCATTATGAGGCCATTTCCTC[CT]TAGGAGAAAAAAAATCTCTGGGCTCTGAAAGGAGTAGAATTAGGGTAGGAATTAAGAG
                                   A
35697 I                    S   GAGGCATAGGACACCATGGTCTAGCTGGACAT
35697 P   T                S   CGCGCCGAGGAAGGGAGGTTGGACTCY
35697 P   G                S   ATGACGTGGCAGACCAGGGAGGTTGGACTCY
35697 T   T                S   CCAGGAGTCCAACCTCCCTTGTCCAGCTAGACCATGGTGTCCTATGCCTCAG
35697 T   G                S   CCAGGAGTCCAACCTCCCTGTGTCCAGCTAGACCATGGTGTCCTATGCCTCAG

35697 IS  [TG]                     CATAGCAGTGTTCTCACAGTATGGGGCTGGCCATGAATACCCCAGGAGTCCAACCTCCCT[TG]TGTCCAGCTAGACCATGGTGTCCTATGCCTCAGGCAGGCAATGTGGTCCAGTCATCAGTG
35708 I                    S   CATCCTGCCTCCTGGCCTCTCTCAGCA
35708 P   G                S   ATGACGTGGCAGACCGGCATTTTCAGGCAY
35708 P   A                S   CGCGCCGAGGTGCCATTTTCAGGCAGY
35708 T   G                S   CCTTCTGCCTGAAAATGGCGGCTGAGAGAGGCCAGGAGGCAGGATGCA
35708 T   A                S   CCTTCTGCCTGAAAATGGCAGCTGAGAGAGGCCAGGAGGCAGGATGCA

35708 IS  [GA]                     GGTTCCCACCCTCCATTTTGTAGGCTCCTGCAGCCCGAAGCCCTTCTGCCTGAAAATGGC[GA]GCTGAGAGAGGCCAGGAGGCAGGATGCAGGCTGAGGAGGAAGCTCCGGGGCTGGGTCTC
35740 I                    A   CAACATGTTAGCAGCCTCAAGTGGACTCTGA
35740 P   T                A   CGCGCCGAGGTGAGAGACTCAACTGCAY
35740 P   C                A   ATGACGTGGCAGACCGAGAGACTCAACTGCAY
35740 T   T                A   GCATTGCAGTTGAGTCTCTCACAGAGTCCACTTGAGGCTGCTAACATGTTGAT
35740 T   C                A   GCATTGCAGTTGAGTCTCTCGCAGAGTCCACTTGAGGCTGCTAACATGTTGAT

35740 IS  [TC]                     TGGTTCATGAAATGCACCCATTCATTAAATCAACATGTTAGCAGCCTCAAGTGGACTCTG[TC]GAGAGACTCAACTGCAATGCAATATTCCTGAATAAATCAAGAGACCATAAAAGACACTTT
35743 I                    A   TGTGTGTGTAGCCTGGTCCACAGGAAATACTCAGT
35743 P   C                A   ATGACGTGGCAGACCAAGTATTGGCTGGTATTCTY
35743 P   A                A   CGCGCCGAGGAAAGTATTGGCTGGTATTCTAY
35743 T   C                A   TAGCTAAGAATACCAGCCAATACTTGCTGAGTATTTCCTGTGGACCAGGCTACACACACACA
35743 T   A                A   TAGCTAAGAATACCAGCCAATACTTTCTGAGTATTTCCTGTGGACCAGGCTACACACACACA

35743 IS  [CA]                     TGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTAGCCTGGTCCACAGGAAATACTCAG[CA]AGTATTGGCTGGTATTCTTAGCTATTATGGGTAAAGTTGCTTGGAGGTCAGTTAGCAGA
35749 I                    S   AAGTTTTACCCAGATAAGGCAATACTTGTAAATAATTTTGGATTCAGAATAAAA
35749 P   A                S   CGCGCCGAGGTCTTTGCTCTGATGCTGY
35749 P   G                S   ATGACGTGGCAGACCCTTGCTCTGATGCTGY

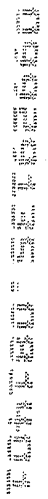
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35749 T   G                S   TCCTCAGCATCAGAGCAAAGGTTATTCTGAATCCAAAATTATTTACAAGTATTGCCTTATCTGGGTAAAACTTGA

35749 IS  [AG]                     CTTAGCTGACATGCAGAATGATACTTATAATTTCATTTTATCCTCAGCATCAGAGCAAAG[AG]TTTATTCTGAATCCAAAATTATTTACAAGTATTGCCTTATCTGGGTAAAACTTGAAAAGT
35761 I                    S   GCAGGTTGAATGCAGTAGTTGAGGTGAATGGTTTTCAT
35761 P   T                S   CGCGCCGAGGAACTAGCAGCAACTCAGY
35761 P   C                S   ATGACGTGGCAGACTAGCAGCAACTCAGY
35761 T   T                S   CCTCCTGAGTTGCTGCTAGTTTGAAAACCATTCACCTCAACTACTGCATTCAACCTGCCA
35761 T   C                S   CCTCCTGAGTTGCTGCTAGTCTGAAAACCATTCACCTCAACTACTGCATTCAACCTGCCA

35761 IS  [TC]                     TAGAGAGGAATCAAGCTTGTATTGTGCCTTAAATTGACATCCTCCTGAGTTGCTGCTAGT[TC]TGAAAACCATTCACCTCAACTACTGCATTCAACCTGCCACACAGAGAATGAATATTTTAG
35773 I                    S   CCAAGTTCACACGAGTCAGAATTGGGACCAAAACCTT
35773 P   C                S   ATGACGTGGCAGACGGCTTTATGGTCTTGTTAATTCY
35773 P   T                S   CGCGCCGAGGAGCTTTATGGTCTTGTTAATTCY
35773 T   C                S   AGCTGAATTAACAAGACATAAAGCAGGTTTTGGTCCCAATTCTGACTCGTGTGAACTTGGTC
35773 T   T                S   AGCTGAATTAACAAGACATAAAGCTAGGTTTTGGTCCCAATTCTGACTCGTGTGAACTTGGTC

35773 IS  [CT]                     ATTTATCCAATTCTTCTGATACATGAAGATAAGGGAGGTGAATTAACAAGACATAAAGC[CT]AGGTTTTGGTCCCAATTCTGACTCGTGTGAACTTGGTCACTGAGATTCTTTCCAGTTCTA
35786 I                    S   TTCCATGACAGCTTTAAGCTGGGGACTGGCA
35786 P   A                S   CGCGCCGAGGTCAGACACAATGGTCATTACY
35786 P   G                S   ATGACGTGGCAGACCCAGACACAATGGTCATTAY
35786 T   A                S   TCCTGTAATGACCATTGTGTCTGAGCCAGTCCCCAGCTTAAAGCTGTCATGGAAGC
35786 T   G                S   TCCTGTAATGACCATTGTGTCTGGGCCAGTCCCCAGCTTAAAGCTGTCATGGAAGC
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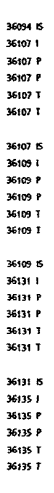
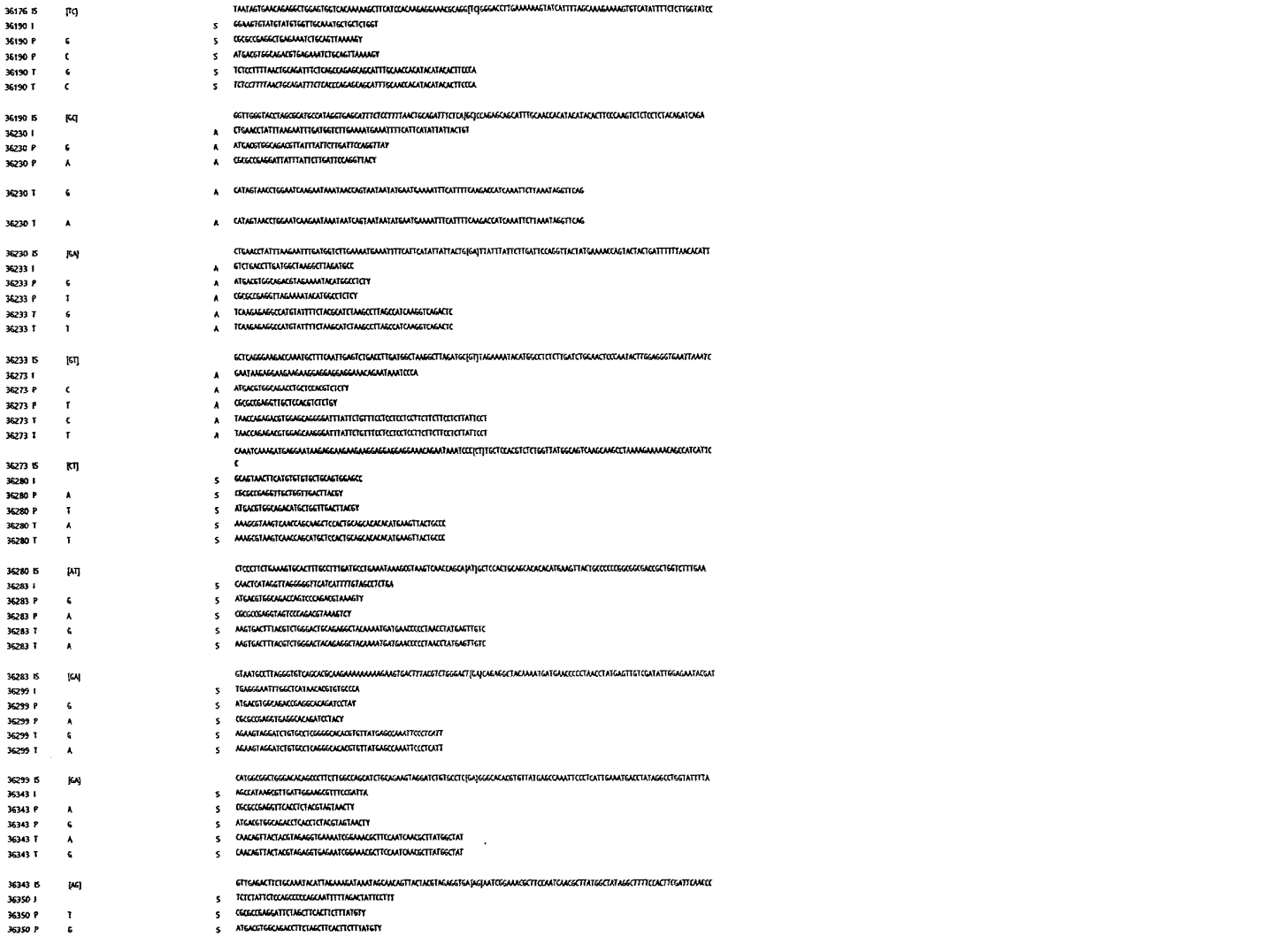


FIGURE 129F



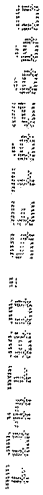


FIGURE 129F

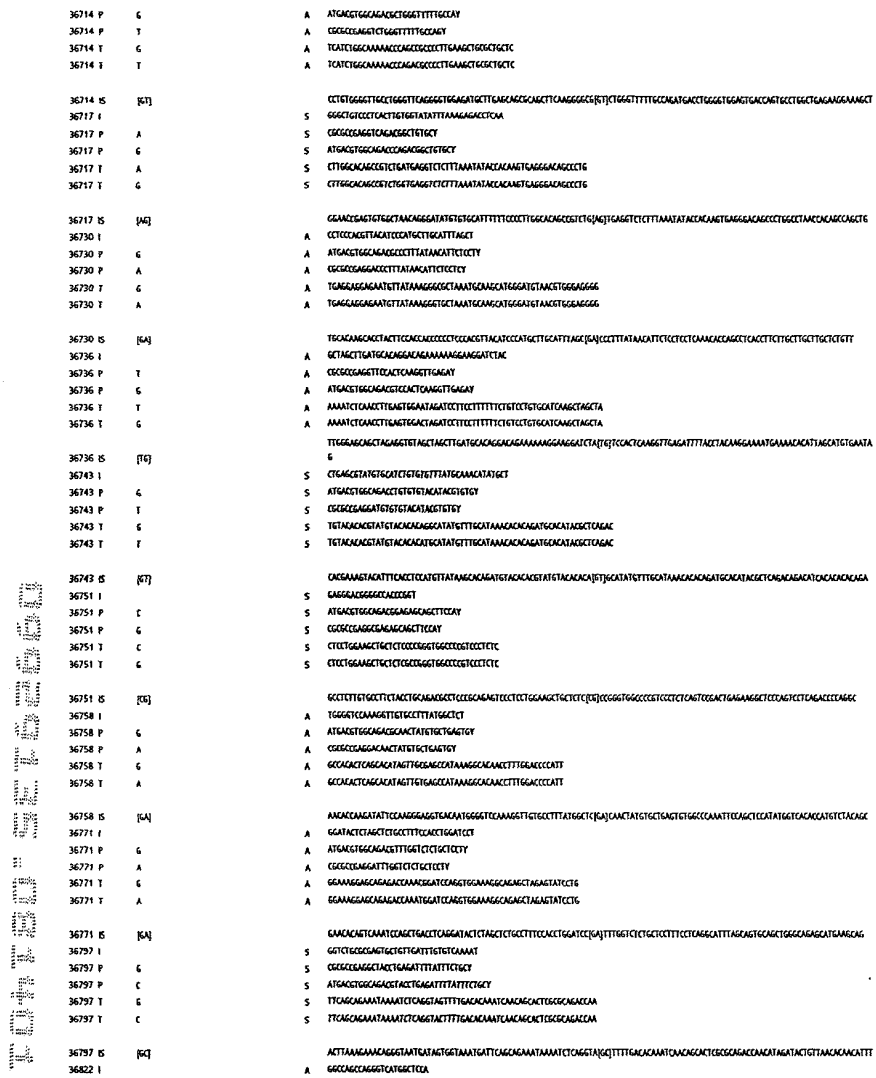
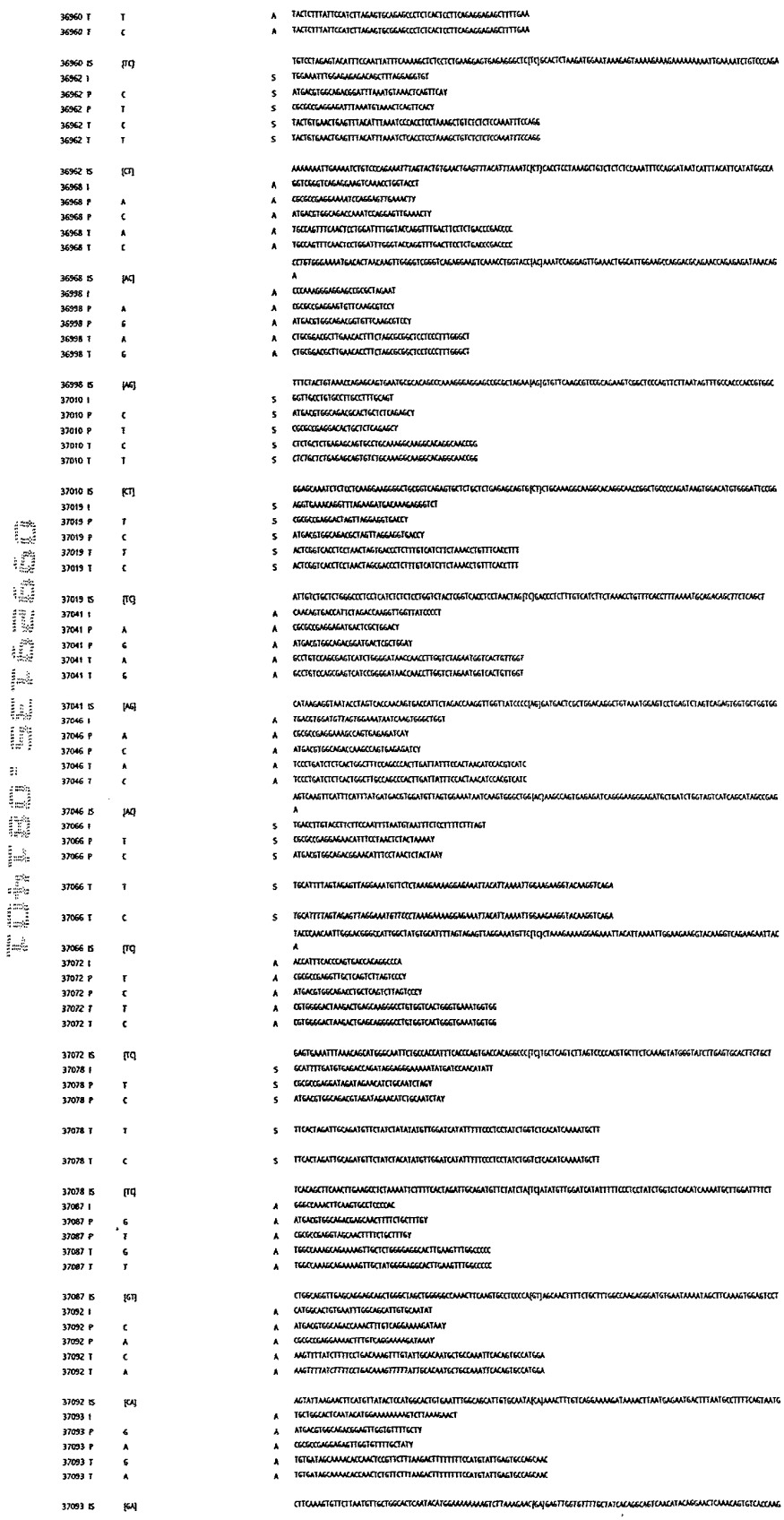
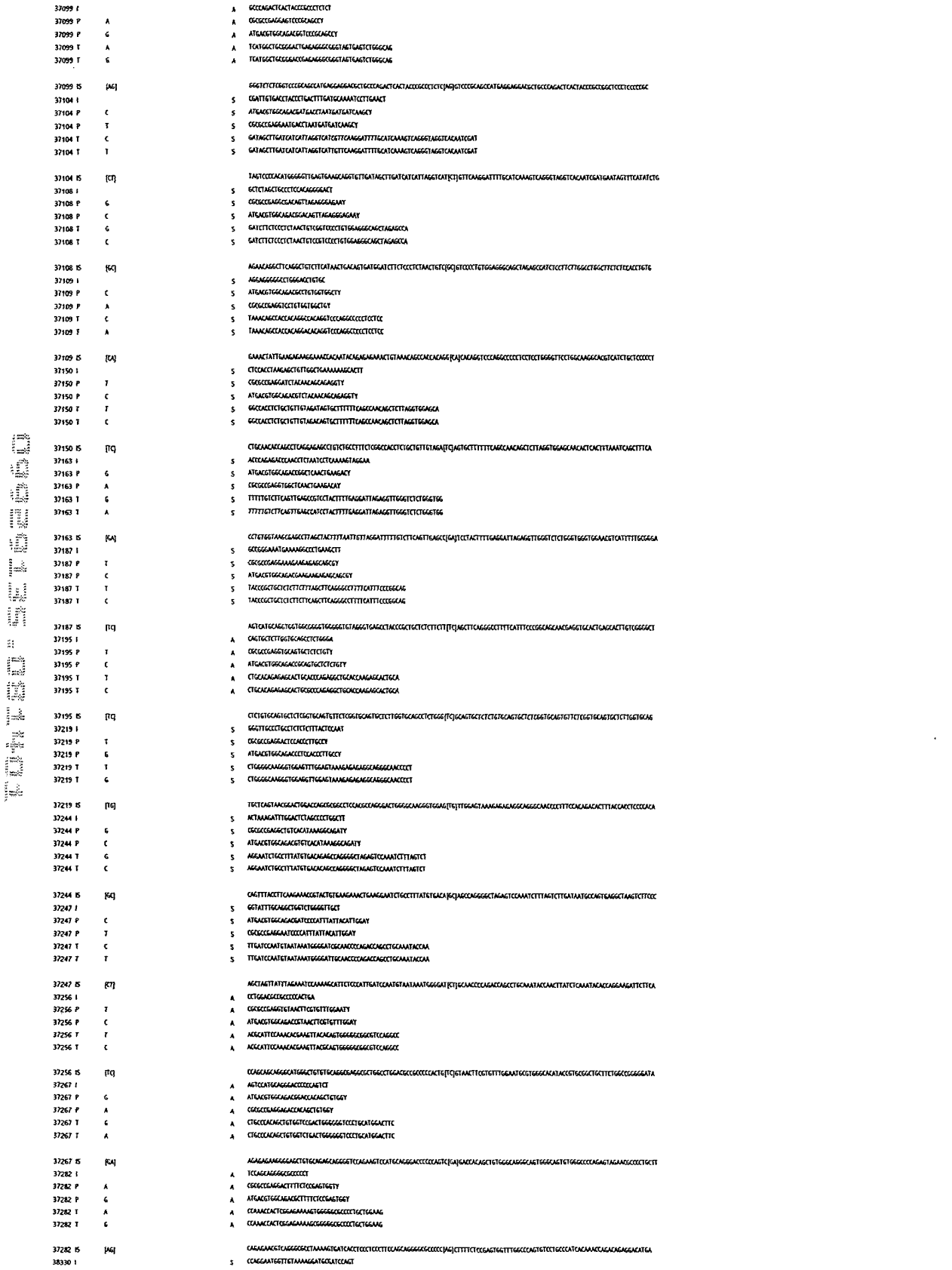

36714 P G A ATGACGTGGCAGACGCTGGGTTTTGCCAY
36714 P T A CGCGCCGAGGTCTGGGTTTTTGCCAGY
36714 T G A TCATCTGGCAAAAACCCAGCCGCCCCTTGAAGCTGCGCTGCTC
36714 T T A TCATCTGGCAAAAACCCAGACGCCCCTTGAAGCTGCGCTGCTC
36714 IS [GT] CCTGTGGGGTTGCCTGGGTTCAGGGGTGGAGATGCTTGAGCAGCGCAGCTTCAAGGGCCG[GT]CTGGGTTTTTGCCAGATGACCTGGGGTGGAGTGACCAGTGCCTGCTGAGAAGCAAAGCT
36717 I S GGGCTGTCCCTCACTTGTGGTATATTTAAAGAGACCTCAA
36717 P A S CGCGCCGAGGTCAGACGGCTGTGCY
36717 P G S ATGACGTGGCAGACCCAGACGGCTGTGCY
36717 T A S CTTGGCACAGCCGTCTGATGAGGTCTCTTTAAATATACCACAAGTGAGGGACAGCCCTG
36717 T G S CTTGGCACAGCCGTCTGGTGAGGTCTCTTTAAATATACCACAAGTGAGGGACAGCCCTG
36717 IS [AG] GGAACGAGTGTGGCTAACAGGGATATGTGTGCATTTTTTCCCCTTGGCACAGCCGTCTG[AG]TGAGGTCTCTTTAAATATACCACAAGTGAGGGACAGCCCTGGCCTAACCACAGCCAGCTG
36730 I A CCTCCCAGGTTACATCCCATGCTTGCATTTAGCT
36730 P G A ATGACGTGGCAGAGCCCTTTATAACATTCTCCTY
36730 P A A CGCGCCGAGGACCCTTTATAACATTCTCCTCY
36730 T G A TGAGAGGAGAATGTTATAAAGGGGCTAAATGCAACCATGGGATGTAACGTGGGAGGGG
36730 T A A TGAGGAGGAGAATGTTATAAAGGGTGCTAAATGCAAGCATGGGATGTAACGTGGGAGGGG
36730 IS [GA] TGCACAAGCACCTACTTCCACCACCCCCTCCCCACGTTACATCCCATGCTTGCATTTAGC[GA]CCCTTTATAACATTCTCCTCCTCAAACACCAGCCTCACCTTCTTGCTTGCTTGCTCTGTT
36736 I A GCTAGCTTGATGCACAGGACAGAAAAAAGGAAGGATCTAC
36736 P T A CGCGCCGAGGTTCCACTCAAGGTTGAGAY
36736 P G A ATGACGTGGCAGACGTCCACTCAAGGTTGAGAY
36736 T T A AAAATCTCAACCTTGAGTGGAATAGATCCTTCCTTTTTTCTGTCCTGTGCATCAAGCTAGCTA
36736 T G A AAAATCTCAACCTTGAGTGGACTAGATCCTTCCTTTTTTCTGTCCTGTGCATCAAGCTAGCTA
36736 IS [TG] TTGGGAGCAGCTAGAGGTGTAGCTAGCTTGATGCACAGGACAGAAAAAAGGAAGGATCTA[TG]TCCACTCAAGGTTGAGATTTAGCTACAAGGAAAATGAAAACACATTAGCATGTGAATA
G
36743 I S CTGAGCGTATGTGCATCTGTGTGTTTATGCAAACATATGCT
36743 P G S ATGACGTGGCAGACCTGTGTGTACATACGTGTGY
36743 P T S CGCGCCGAGGATGTGTGTACATACGTGTGY
36743 T G S TGTACACACGTATGTACACACAGGCATATGTTTGCATAAACACACAGATGCACATACGCTCAGAC
36743 T T S TGTACACACGTATGTACACACATGCATATGTTTGCATAAACACACAGATGCACATACGCTCAGAC
36743 IS [GT] CACGAAAGTACATTTCACCTCCATGTTATAAGCACAGATGTACACACGTATGTACACACA[GT]GCATATGTTTGCATAAACACACAGATGCACATACGCTCAGACAGACATCACACACACAGA
36751 I S GAGGAACGGGGCTACCCGCT
36751 P C S ATGACGTGGCAGACGGAGAGCAGCTTCCAY
36751 P G S CGCGCCGAGGCGAGAGCAGCTTCCAY
36751 T C S CTCCTGGAAGCTGCTCTCCCCGGGTGCCCCGTCCCTCTC
36751 T G S CTCCTGGAAGCTGCTCTCGCCGGGTGCCCCGTCCCTCTC
36751 IS [CG] GCCTCTTGTGCCTCTACCTGCAGAGAGCCTCCCGCAGAGTCCCTCCTGGAAGCTGCTCTC[CG]CCCGGGTGGGCCCGTCCCTCTCAGTCGCACTGAGAAGGCTCCCAGTCCTCAGACCCCAGGC
36758 I A TGGGGTCCAAAGGTTGTGCCTTTATGGCTCT
36758 P G A ATGACGTGGCAGACGCAACTATGTGCTGAGTGY
36758 P A A CGGGCCGAGGACAACTATGTGCTGAGTGY
36758 T G A GCCACACTCAGCACATAGTTGCGAGCCATAAGGCACAACCTTTGGACCCCATT
36758 T A A GCCACACTCAGCACATAGTTGTGAGCCATAAGGCACAACCTTTGGACCCCATT
36758 IS [GA] AACACCAAGATATTCCAAGGGAGGTCACAATGGGGTCCAAAGGTTGTGCCTTTATGGCTC[GA]CAACTATGTGCTGAGTGTGGCCCAAATTCCAGCTCCATATGGTCACACCATGTCTACAGC
36771 I A GGATACTCTAGCTCTGCCTTTCCACCTGGATCCT
36771 P G A ATGACGTGGCAGACGTTTGGTCTCTGCTCCTY
36771 P A A CGCGCCGAGGATTTGGTCTCTGCTCCTY
36771 T G A GGAAGGAGACAGACACCAAACGGATCCAGGTGGAAAGGCAGAGCTAGAGTATCCTG
36771 T A A GGAAGGAGCAGACACCAAATGGATCCAGGTGGAAAGGCAGAGCTAGAGTATCCTG
36771 IS [GA] GAACACAGTCAAATCCAGCTGACCTCAGGATACTCTAGCTCTGCCTTTCCACCTGGATCC[GA]TTTGGTCTCTGCTCCTTTCCTCAGGCATTTAGCAGTGCAGCTGGGCAGAGCATGAAGCAG
36797 I S GGTCTGCGCGAGTGCTGTTGATTTGTGTCAAAAT
36797 P G S CGCGCCGAGGCTACCTGAGATTTTATTTCTGCY
36797 P C S ATGACGTGGCAGACGTACCTGAGATTTTATTTCTGCY
36797 T G S TTCAGCAGAAATAAAATCTCAGGTAGTTTTGACACAAATCAACAGCACTCGCGCAGACCAA
36797 T C S TTCAGCAGAAATAAAATCTCAGGTACTTTTGACACAAATCAACAGCACTCGCGCAGACCAA
36797 IS [GC] ACTTAAAGAAACAGGGTAATCATAGTGGTAAATGATTCAGCAGAAATAAAATCTCAGGTA[GC]TTTTGACACAAATCAACAGCACTCGCGCAGACCAACATAGATACTGTTAACACACAACATTT
36822 I A GGCCAGCCAGGGTCATGGCTCCA
36822 P C A ATGACGTGGCAGACCGCCTCCTCCTTCTGY
36822 P T A CGCGCCGAGGTGCCTCCTCCTTCTGY
36822 T C A GGCACAGAAGGAAGGAGGCGGGAGCCATGACCCTGGCTGGCCTC
36822 T T A GGCACAGAAGGAGGAGGCAGGAGCCATGACCCTGGCTGGCCTC
36822 IS [CT] GGAGCAACTAGTTTGCCCACCAAGTCCTAGGCATCTGAGGCCAGCCAGGGTCATGGCTCC[CT]GCCTCCTCCTTCTGTGCCCCTCCCCAGATGCCCAGTTGTGAGGGAGTGATCAGAACATGT
36830 I S CAGAAGCCGCATCCCCCTTCCCCT
36830 P T S CGCGCCGAGGAAGTCCAAAACACGAGGY
36830 P C S ATGACGTGGCAGACGAGTCCAAAACACGAGGY
36830 T T S ACCTCCTCGTGTTTTGGACTTGGGGAAGGGGGATGCCGCTTCTGGG
36830 T C S ACCTCCTCGTGTTTTGGACTCGGGGAAGGGGGATGCCGCTTCTGGG
36830 IS [TC] GGGCCTTTTTGGGCCAGGTCCCCACCCTTCCTTCCTCCTGACCTCCTCGTGTTTTGGACT[TC]GGGGAAGGGGGATGCCGCTTCTGGGAGCCCCGCGGGAGGCACCGGGACCCCGAACTTACTT
36834 I A CAGTCAGCCCCTGATAAGTTAGCCAGATACTCCTATTTACCT
36834 P G A ATGACGTGGCAGACGTGCCAGAACACTGGGY
36834 P A A CGCGCCGAGGATGCCAGAACACTGGGY
36834 T G A GATGCCCAGTGTTCTGGCACGGTAAATAGGAGTATCTGGCTAACTTATCAGGGGCTGACTGCC
36834 T A A GATGCCCAGTGTTCTGGCATGGTAAATAGGAGTATCTGGCTAACTTATCAGGGGCTGACTGCC
36834 IS [GA] GCTGGCTTTGAAGGGCTGGCACTCAGCCCCTGATAAGTTAGCCAGATACTCCTATTTACC[GA]TGCCAGAACACTGGGCATCTGAGATCACTTCTGGGCAGGTCTTTGCTTAGACAAACCACC
36839 I A CGACGGCTGGGCCATGCAAA
36839 P C A ATGACGTGGCAGACCACCACTAAAGACATCACTY
36839 P T A CGCGCCGAGGTAACCACTAAAGACATCACTGY
36839 T C A GCCCCAGTGATGTCTTTAGTGGTTGTTGCATGGCCCAGCCGCCGCA
36839 T T A GCCCCAGTGATGTCTTTAGTGGTTATTGCATGGCCCAGCCGCCGCA
36839 IS [CT] GCTCAGAGGCTTAAAGGCAGGCTCCGGGGCGCAGATCCCATGCGGCGGCTGGGCCATGCAA[CT]AACCACTAAAGACATCACTGGGGCGTCAAAACAGCACTGAAATCGTAACGAAAGGAAGAT
36843 I S CACTGCTTTGGGAGCCTAATCACAATTCAAAGATT
36843 P T S CGCGCCGAGGAGTTTTCATAGGGAAATAAAACAGY
36843 P C S ATGACGTGGCAGACGGTTTTCATAGGGAAATAAAACAY
36843 T T S ACTCCTGTTTTATTTCCCTATGAAACTATCTTTGAATTGTGATTAGGCTCCCAAGCAGTGAA
36843 T C S ACTCCTGTTTTATTTCCCTATGAAACCATCTTTGAATTGTGATTAGGCTCCCAAGCAGTGAA
36843 IS [TC] AACCATACTGTATCTAAAGATAATCTGTTTGAAACTCCTGTTTTATTTCCCTATGAAACT[TC]ATCTTTGAATTGTGATTAGGCTCCCAAGCAGTGAACAAAATCTTACTTAGCATATAATG
36848 I A AGGGTGTAGTTTTTGCTATTTTTACCACAGGCAAAAATTC
36848 P A A CGCGCCGAGGAACATAGGTGAGAATATAGAAATGGY

FIGURE 129F


36848 F T A ATGACGTGGCAGACTACATAGGTGAGAATATAGAAATGGT
36848 I A A TTCCCCATTTCTATATTCTCACCTATGTTAATTTTTGCCTGTGGTAAAAATAGCAAAAACTACACCCTCA
36848 T T A TTCCCCATTTCTATATTCTCACCTATGTAAATTTTTGCCTGTGGTAAAAATAGCAAAAACTACACCCTCA
AAGCAGGAAGTCTCAAAAATGAGGGTGTAGTTTTTGCTATTTTTACCACAGGCAAAAATTATACATAGGTGAGAATATAGAAATGGGGAACCCAAAAGTTGCTAAAGCCTGTTTACTCCA
36848 IS [AT] A
36852 I S GGAAGCTTTGGGAGCCCGTGGGGCA
36852 P G S ATGACGTGGCAGACCTGGCCCTGCTCAY
36852 P A S CGCGCCGAGGTTGGCCCTGCTCACY
36852 T G S GCGGGTGAGCAGGGCCAGCCCCACGGCTCCCAAAGCTTCCTA
36852 T A S GCGGGTGAGCAGGGCCAGCCCCACGGCTCCCAAAGCTTCCTA
36852 IS [GA] TCTGTAAGCCCAGCCTGGCAGGGAATGAGAACAGGAGCCAGGGCGGGTGAGCAGGGCCA[GA]GCCCCACGGCTCCCAAAGCTTCCTACTTCCCAGCAGCCCTCTCCCCAGCCTGGAGTCAGA
36862 I S TCGAGAGGCAGTGGAGAAGTGCAGAAGTCCF
36862 P C S ATGACGTGGCAGAACSTGGAAAATGACAGGGGY
36862 P T S CGCGCCGAGGATGGAAAATGACAGGGGY
36862 T C S GGTGCCCCTGTCATTTTCCACGGACTTCTGCACTTCTCCCACTGCCTCTCGAAG
36862 T T S GGTGCCCCTGTCATTTTCCATGGACTTCTGCACTTCTCCCACTGCCTCTCGAAG
36862 IS [CT] AGACTGACAGTGCAGATGGTGGCAGCGCTCCACATCCCTGGGTGCCCCTGTCATTTTCCA[CT]GGACTTCTGCACTCTCCACTGCCTCTCGAAGCAGGATATTTCTCTCTCCTCCATCTGTA
36866 I S CTCACTAGGTCAACTGGTTACCTCTTGAGCTACCTAACTT
36866 P G S CGCGCCGAGGCTTCGGGTACACATTGTGGY
36866 P C S ATGACGTGGCAGACGTTTCGGTACACATTGTGGY
36866 T G S ACTACCACAATGTGTACCGAAAGAGTTAGGTAGCTCAAGAGGTAACCAGTTGACCTAGTGAGGA
36866 T C S ACTACCACAATGTGTACCGAAACAGTTAGGTAGCTCAAGAGGTAACCAGTTGACCTAGTGAGGA
36866 IS [GC] CGTGGACAGTTTGCAATATTTAGCAAGCAGCAGCAATGACTACCACAATGTGTACCGAAA[GC]AGTTAGGTAGCTCAAGAGGTAACCAGTTGACCTAGTGAGGACAAATGTGCAAATGTCGAA
36870 I A GAAACTAATGGTCCAATCCTGGGTTGTTTAGGTAGAAGGAAAAATT
36870 P C A ATGACGTGGCAGACCCTCAGAAGACAAGGAAAAGY
36870 P A A CGCGCCGAGGACTCAGAAGACAAGGAAAAGY
36870 T C A AATCCTTTTCCTTGTCTTCTGAGGATTTTCCTCTCTACCTAAACAACCCAGGATTGGACCATTAGTTTCTT
36870 T A A AATCCTTTTCCTTGTCTTCTGAGTATTTTCCTCTCTACCTAAACAACCCAGGATTGGACCATTAGTTTCTT
GAAAGTGGGAAGCAGAAACTAATGGTCCAATCCTGGGTTGTTTAGGTAGAGAGGAAAATJCA]CTCAGAAGACAAGGAAAAGGATTTTTAAGAACCTCTAAGAACATGGTTTGAGGAGAAG
36870 IS [CA] AG
36878 I A CGTGTCGTCATGTGACTGCCACAAAGCAGT
36878 P G A ATGACGTGGCAGACGCATCTTGGGCACTTGY
36878 P A A CGCGCCGAGGACATCTTGGCCACTTGAY
36878 T G A TTTCTCAAGTGCCCAAGATGTCTGCTTTTGTGGCAGTCACATGACGACACGCA
36878 T A A TTTCTCAAGTGCCCAAGATGTCTGCTTTTGTGGCAGTCACATGACGACACGCA
36878 IS [GA] AGGAGAAAACCTCACCATGGCCACCTGCTGCTGTCCTCATGTGACTGCCACAAAAGCAG[GA]CATCTTGGGCACTTGAGAAAGAGTGGCTGTCATTGTTACTATTGTGATTATTCTATCAAA
36879 I S CTGTGCACCACCCCAGCTACTGTGGT
36879 P T S CGCGCCGAGGACATTGGCTGCTAACTGY
36879 P C S ATGACGTGGCAGACGCATTGGCTGCTAACTY
36879 T T S ACCACAGTTAGCAGCCAATGTCCACAGTAGCTGGGGTGGTGCACAGCC
36879 T C S ACCACAGTTAGCAGCCAATGCCCACAGTAGCTGGGGTGGTGCACAGCC
36879 IS [TC] ATAGCTCCTGAGGGTGATTCTTCAGAGACACAAGCAGAAGACCACAGTTAGCAGCCAATG[TC]CCACAGTAGCTGGGGTGGTGCACAGCCCAGGGAAGGGGATCTGAATGAGGCACTATCACT
36883 I S CAGAATCCGGTAGAGGCATCTGCGCACCAGTT
36883 P T S CGCGCCGAGGACGGAGTTGGAGGGY
36883 P C S ATGACGTGGCAGACGCCGAGTTGGAGGGY
36883 T T S AGAGCCCTCCAACTCCGTACTGGTCGCAGATGCTCTACGGGATTCTGCT
36883 T C S AGAGCCCTCCAACTCCGCACTGGTCGCAGATGCTCTACGGGATTCTGCT
36883 IS [TC] GGGCGCCCCCACAGCCCCCATCCCCCACATGACCATGAGCCCAGAGCCCTCCAACTCCG[TC]ACTGGTCGCAGATGCTCTCACGGGATTCTGCTGAGTCCAGTGAAGTGATGACTTGGTTTAT
36893 I S CCTGATTTGGCCTGGGGAGGTGCAGT
36893 P C S ATGACGTGGCAGACCCCACCATCCTCTCTTY
36893 P T S CGCGCCGAGGACCACCATCCTCTCTTCY
36893 T C S CTCAGAAGAGAGGATGGTGGGGATCCCACAGATGACACTCCAGAGACAGGATGAGAGG
36893 T T S CTCAGAAGAGAGGATGGTGGTGATCCCACAGATGACACTCCAGAGACAGGATGAGAGG
36893 IS [CT] TCCTAGGGAACCCTTAAGGCTCATTCAAATGTCATTTCCTTGATGAAGCTTTTTCCCATA[CT]CTGCACCTCCCCAGGCCAAATCAGGTGTGTCCCTTCCTTTGAAGTTTCATAGCACCCTGA
36911 I S TCTCATCCTGTCTCTGGAGTGTCATCTGTGGGGATCT
36911 P G S ATGACGTGGCAGACCCCACCATCCTCTCTTY
36911 P T S CGCGCCGAGGACCACCATCCTCTCTTCY
36911 T G S CTCAGAAGAGAGGATGGTGGGGATCCCACAGATGACACTCCAGAGACAGGATGAGAGG
36911 T T S CTCAGAAGAGAGGATGGTGGTGATCCCACAGATGACACTCCAGAGACAGGATGAGAGG
36911 IS [GT] GTCAGTCTCAGTCTTGGCTTGCTCGCCACAGCTCCCTGGCCTCAGAAGAGAGGATGGTGG[GT]GATCCCACAGATGACACTCCAGAGACAGGATGAGAGGCCTCCCCCATCCCCCACTCCATG
36914 I S CGGATACTAACACCAGCCCCTCGCCTA
36914 P G S ATGACGTGGCAGACCGGTGGCTTCGATGY
36914 P A S CGCGCCGAGGTGGTGGCTTCGATGGY
36914 T G S GAACCCATCGAAGCCACCAAGCGAGGGGCTGGTGTTAGTATCCGGC
36914 T A S GAACCCATCGAAGCCACCAAGCGAGGGGCTGGTGTTAGTATCCGGC
36914 IS [GA] AAACATTTCAAGAACTGGCTGATGTTACAACTTTGGCCAGCAGAACCCATCGAAGCCACCG[GA]AGGCCAGGGGCTGGTGTTAGTATCCGGCATATCGTGTTATACAGGAGCTTCGCCAGCTTC
36937 I S GAACATGCTTTCTCTGCCTTACTACAGTCAAGCC
36937 P A S CGCGCCGAGGTCCTAGAGGCAGATTCY
36937 P T S ATGACGTGGCAGACACCTAGAGGGCAGATTCY
36937 T A S TATAGAATCTGCCCTCTAGCAGCTTGACTGTAGTAAGGCAGAGAAAGCATGTTCAA
36937 T T S TATAGAATCTGCCCTCTAGGTGCTTGACTGTAGTAAGGCAGAGAAAGCATGTTCAA
36937 IS [AT] TGCATAATACTGTATTTGGGCAATGCAAATTGAATTGGATATAGAATCTGCCCTCTAGG[AT]GCTTGACTGTAGTAAGGCAGAGAAAGCATGTTCAAAATTAAGTTAAACAGAATAGAGCA T
36942 I S ATTTGAGAATACATATAGGCAAAAGCAAAACATGAAAACAAGCTTA
36942 P G S ATGACGTGGCAGACCTTCAGCAGGTTGGCY
36942 P A S CGCGCCGAGGTTTCAGCAGGTTGGCT
36942 T G S TGGAGCCAACCTGCTGAAGAAGCTTGTTTTCATGTTTTCCTTTTGCCTTATATGTATTTCTCAAATAA
36942 T A S TGGAGCCAACCTGCTGAAAAAGCTTGTTTTCATGTTTTCCTTTTGCCTTATATGTATTTCTCAAATAA
36942 IS [GA] TTCTCAGGTATGAGAAGAAGGAAAGTCCAGAAGAGAAGGACTGGAGCCAACCTGCTGAA[GA]AAGCTTGTTTTCATGTTTTCCTTTTGCCTTATATGTATTTCTCAAATAATATTAAGTCT
36957 I A GCTTGCCAGAAGGAGATACTACTGATTCAGCAAGAGCAATAAATAT
36957 P C A CGCGCCGAGGCAGCCCAGAATTCGGY
36957 P G A ATGACGTGGCAGACGAGGCCAGAATTCGGY
36957 T C A ACACCCGAATTCTGGCCTGTATTTATTGCTCTTGCTGAATCAGTAGTATCTCCTCTGGCAAGCCA
36957 T G A ACACCCGAATTCTGGCCTCTATTTATTGCTCTTGCTGAATCAGTAGTATCTCCTCTGGCAAGCCA
36957 IS [CG] GAAAGACAACTATCTGGCTTGCCAGAGGAGATACTACTGATTCAGCAAGAGCAATAAATA[CG]AGGCCAGAATTCGGGTGTATGTGTTTTGCAAAAAAGTCTGGATTGCAGGCCTGAATGGCT
36960 I A CAAAAGCTCTCCTCTGAAGGAGTGAAGAGGCTCA
36960 P T A CGCGCCGAGGTGCACTCTAAGATGGAATAAAGY
36960 P C A ATGACGTGGCAGACCGCACTCTAAGATGGAATAAAY





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38330 P  C    S  ATGACGTGGCAGAGGTGACATGGAAGGAGAGAT
38330 P  T    S  CGCGCCGAGGATGACATGGAAGAGAGAT
38330 T  C    S  AGCCTCTCTCCTTCCATGTCACCTGGATGGCATCCTTTTACAACCATTCCTGGAA
38330 T  T    S  AGCCTCTCTCCTTCCATGTCATCTGGATGGCATCCTTTTACAACCATTCCTGGAA

38330 IS [CT]      CTCCCCATTCTATCTGTTCTTTTGTCGCAGGGCTCAAGGAGCCTCTCTCCTTCCATGTCA[CT]CTGGATCGCATCCTTTTACAACCATTCCTGGAACAAAATCTGGTCTCAGGTTGGCTGAG
38338 I    C    A  CCTTCAGTTTACCTGAGAAGCCTAGACCTCAGGACCT
38338 P  A    A  CGCGCCGAGGAACCATCTCCTATGCTACCY
38338 P  G    A  ATGACGTGGCAGACGCCATCTCCTATGCTACY
38338 T  A    A  GCATGGTAGCATAGGAGATGGTGGTCCTGAGGTCTAGGCTTCTCAGGTAAACTGAAGGGT
38338 T  G    A  GCATGGTAGCATAGGAGATGGCGGTCCTGAGGTCTAGGCTTCTCAGGTAAACTGAAGGGT

38338 IS [AG]      TGTGTCCACACAGGTCAGGGCTACCCTTCAGTTTACCTGAGAAGCCTAGACCTCAGGACC[AG]CCATCTCCTATGCTACCATGCCCAGCCTGACCTGGCTGCTCACAAGTACCTGCCATAATG
38351 I    C    S  GCCCCCAGCCCCACTCTTGGCA
38351 P  A    S  CGCGCCGAGGTGTGCTGGCCAGGY
38351 P  G    S  ATGACGTGGCAGACCGTGCTGGCCAGGY
38351 T  A    S  GTCACCTGGCCAGCACAGCCAAGAGTGGGGCTGGGGGCGC
38351 T  G    S  GTCACCTGGCCAGCACGGCCAAGAGTGGGGCTGGGGGCGC

38351 IS [AG]      GAGTGAGACCTTTGACTTTCTGATGATGTGGCCAAGAACTAGGAGTCACCTGGCCAGCAC[AG]GCCAAGAGTGGGGCTGGGGGCGCAGCCAGCTTTAAGGTGTCAACACCTGGCCCTTGCCGG  SARM
38363 I    C    A  GTGCCCAAGTCTTTCCTACCTTGGGGGAAT
38363 P  C    A  ATGACGTGGCAGACCCTGGAACTTGGAAAGGY
38363 P  A    A  CGCGCCGAGGAACTGGAACTTGGAAAGGY
38363 T  C    A  GGAGCCTTTCCAAGTTCCAGGTTCCCCCAAGGTAGGAAAGACTTGGGCACTT
38363 T  A    A  GGAGCCTTTCCAAGTTCCAGTTTCCCCCAAGGTAGGAAAGACTTGGGCACTT

38363 IS [CA]      GTCCAGACCTTTGAGGATATCAAAGGACAAAGTGCCCAAGTCTTTCCTACCTTGGGGGAA[CA]CTGGAACTTGGAAAGGCTCCCTGTCCTAGTCTTGATCTGTTCTGGGCCAGGTCCCAGCTT  NMT1
38369 I    C    S  TCTGAAGAACATTCTGTGCTTGGCAACTGCAAACCT
38369 P  T    S  CGCGCCGAGGATCTTCCAGCTACCCTTY
38369 P  C    S  ATGACGTGGCAGACGTCTTTCCAGCTACCCTY
38369 T  T    S  GGCTAAGGGTAGCTGGAAAGATGGTTTGCAGTTGCCAAGCAGAGAATGTTCTTCAGATA
38369 T  C    S  GGCTAAGGGTAGCTGGAAAAGACGGTTTGCAGTTGCCAAGCAGAGAATGTTCTTCAGATA

38369 IS [TC]      TTGTCCTGAGGTTTTGCCATGAATTGGCCCTCAGTTAGGGGCTAAGGGTAGCTGGAAAGA[TC]GGTTTGCAGTTGCCAAGCAGAGAATGTCTCTTCAGATAGAGGGCTCCTAGGGACAGGAGGA
38380 I    C    S  CATGTGTGTGGGCCTGTGGGTGTGTT
38380 P  T    S  CGCGCCGAGGATGTGTAAAAGCCCCAGY
38380 P  C    S  ATGACGTGGCAGACGTGTGTAAAAGCCCCAGY
38380 T  T    S  CTGCCTGGGGCTTTTACACATACACACCCACAGCCCCACACACATGCA
38380 T  C    S  CTGCCTGGGGCTTTTACACACACACACCCACAGCCCCACACACATGCA

38380 IS [TC]      CCTTTCTAATGTAAACTATTAGCGACTCCTGGCTCTGTGGCTGCCTGGGGCTTTTACACA[TC]ACACACCCACAGGCCCACACACATGCAAATACACACAGGCACACTAGTGAATCCTGTCTG
38381 I    C    S  TGCACACCTGCCTGGGCCCT
38381 P  T    S  CCGCCCGAGCAGACAGGGTTCACTAGTGY
38381 P  C    S  ATGACGTGGCAGACGGACAGGGTTCACTAGTY
38381 T  T    S  GGCACACTAGTGAACCCTGTCCGGCCCAGGCAGGGTCTGCAGC
38381 T  C    S  GGCACACTAGTGAACCCTGTCCGGCCCAGGCAGGGTCTGCAGC

38381 IS [TC]      ATACACACCCACAGGCCCACACACATGCAAATACACACAGGCACACTAGTGAACCCTGTC[TC]GGGCCCAGGCAGGGTCTGCAGCCTCCCCAGCGCCCCTCCCCACAGATCTAATCTCAGCCC
38385 I    C    S  CCCTTTCTTTGCCACACTGTTGTGCCAGTTAAAGTC
38385 P  A    S  CGCGCCGAGGTCCCAAGCATCTTTAAACTTY
38385 P  T    S  ATGACGTGGCAGACACCCAAGCATCTTTAAACTTY
38385 T  A    S  GACCAAGTTTAAAGATGCTTGGGAACTTTAACTGGCACAACAGTGTGGCAAAGAAAGGGAC
38385 T  T    S  GACCAAGTTTAAAGATGCTTGGGTACTTTAACTGGCACAACAGTGTGGCAAAGAAAGGGAC

38385 IS [AT]      AGATGGGGCAGTGAAACAGGGTAACTCGCTTTGAACAGACCAAGTTTAAAGATGCTTGGG[AT]ACTTTAACTGGCACAACAGTGTGGCAAAGAAAGGGACAGACAGTTCTGCAGTGTAACTA
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38390 I    C    S  GGGAAAGGTTGCAGACACAGGAAGGCTTGTCC
38390 P  T    S  CGCGCCGAGAACCTCTCTGTGGAGCY
38390 P  A    S  ATGACGTGGCAGACTCCTCTCTGTGGAGCY
38390 T  T    S  CAGGGCTCCACAGAGAGGAGACAACCCTTCCTGTGTCTGCAACCTTTCCCCA
38390 T  A    S  CAGGGCTCCACAGAGAGGAGACAACCCTTCCTGTGTCTGCAACCTTTCCCCA

38390 IS [TA]      CCTCAGAGCTAGTCTCTGCAGAAGCTGCTGTGTGGTAAGCAGCAGGGCTCCACAGAGAGG[TA]GACAACCCTTCCTGTGTCTGCAACCTTTCCCCAGGATCCATGATTCAACCCTGGCTCCCT
38398 I    C    S  AGCCAGTGTAATTTCATGTCTATGTCAATCCCCTA
38398 P  G    S  ATGACGTGGCAGACGGTCCTACTCACTGTATGGY
38398 P  A    S  CGCGCCGAGGTGTCCTACTCACTGTATGGY
38398 T  G    S  AAGACCATACAGTGAGTAGGACAGAGGGATTGACATAGACATGAAATTACACTGGCTAT
38398 T  A    S  AAGACCATACAGTGAGTAGGACAGAGGGATTGACATAGACATGAAATTACACTGGCTAT

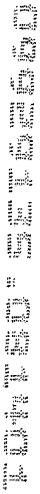
38398 IS [GA]      GGTCTCAGTGATAAGGTTGGCTGGAAGATAATGAAAATAAGACATACAGTGAGTAGGAC[GA]AGGGGATTGACATAGACATGAAATTACACTGGCTATTTAGAGAAATTCTGCTCATTGGA
                   A
38411 I    C    S  GGGGTCTTTTAGCAGAAGCTAATGATTGGCAGCTCTAGT
38411 P  T    S  CGCGCCGAGGATTAAGGTTCTGAGCAGGAY
38411 P  C    S  ATGACGTGGCAGACGTTAAGGTTCTGAGCAGGY
38411 T  T    S  CATGTCCTGCTCAGAACCTTAATCTAGAGCTGCCAATCATTAGCTTCTGCTAAAAGACCCCAC
38411 T  C    S  CATGTCCTGCTCAGAACCTTAACCTAGAGCTGCCAATCATTAGCTTCTGCTAAAAGACCCCAC

38411 IS [TC]      CTACAATGGGCCAGTGACCCTTATCCTTCATGCTCTATCATGTCCTGCTCAGAACCTTAA[TC]CTAGAGCTGCCAATCATTAGCTTCTGCTAAAAGACCCCACACAAGAAGTCCCGGGCAAGT
38415 I    C    S  GCGTTCACTTGGGGGAAATCCATCTAGAAATATGGTAGT
38415 P  T    S  CGCGCCGAGGACTAGAATCACAGTGTAACAAGY
38415 P  C    S  ATGACGTGGCAGACGCTAGAATCACAGTGTAACAY
38415 T  T    S  GGCTCTTGTTACACTGTGATTCTAGTCTACCATATTTCTAGGATGGATTTCCCCCAAGTGAACGCCT
38415 T  C    S  GGCTCTTGTTACACTGTGATTCTAGCCTACCATATTTCTAGGATGGATTTCCCCCAAGTGAACGCCT

38415 IS [TC]      TGCGGACAAAACATCTCAGGCCTTAAGATAAATAATGGCTCTTGTTACACTGTGATTCTAG[TC]CTACCATATTTCTAGGATGGATTTCCCCCAAGTGAACGCCTGTTTCAATTAAGCCTGATC
38432 I    C    S  GGTGCTCCACCTGCCCAAAGCAGCT
38432 P  C    S  ATGACGTGGCAGACGTAGCCTGAACCCAAAACY
38432 P  T    S  CGCGCCGAGGATAGCCTGAACCCAAAACY
38432 T  C    S  CACAGTTTTGGGTTCAGGCTACGCTGCTTTGGGCAGGTGGAGCACCCC
38432 T  T    S  CACAGTTTTGGGTTCAGGCTATGCTGCTTTGGGCAGGTGGAGCACCCC

38432 IS [CT]      ACATAGGAAACCCTTAAAACACACATGGGATTCTCTGGTCACAGTTTTGGGTTCAGGCTA[CT]GCTGCTTTGGGCAGGTGGAGCACCCCCCAGGAAGCCTGCAAGTCCAGGGCACAGGCTGC  IVS-1
38438 I    C    S  AGGCAAACTTTAAAGCCAAATACTTCTAATGAGGCCT
38438 P  T    S  CGCGCCGAGGAAAAGTTTTCAGAAGAAAGATGY
38438 P  C    S  ATGACGTGGCAGACGAAAGTTTTCAGAAGAAAGATGY
38438 T  T    S  TTCTCATCTTTCTTCTGAAAACCTTTGGCCTCATTAGAAGTATTTGGCTTTAAAGTTTGCCTCA
38438 T  C    S  TTCTCATCTTTCTTCTGAAAACCTTTGGCCTCATTAGAAGTATTTGGCTTTAAAGTTTGCCTCA

38438 IS [TC]      TTGCAACTAAGGGCCCTGAGGTAAGCCAACATATTCTCATCTTTCTTCTGAAAACCTTT[TC]GGCCTCATTAGAAGTATTTGGCTTTAAAGTTTGCCTCATTTTATATTATCCCATGCAATA
38468 I    C    A  GCCATTCACCCCAATTTCTTCACTTTTCCCTCATTTTACATAAGTACAA
38468 P  C    A  ATGACGTGGCAGACCACATTCATCAACACATAAATTCY
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38468 P    T          A  CGCGCCGAGGTACATTCATCAACACATAAATTCCY

38468 T    C          A  CTGTGGAATTTATGTGTTGATGAATGTGTGTACTTATGTAAAATGAGGGAAAAGTGAAGAAATTGGGGTGAATGGCTA

38468 T    T          A  CTGTGGAATTTATGTGTTGATGAATGTATGTACTTATGTAAAATGAGGGAAAAGTGAAGAAATTGGGGTGAATGGCTA

38468 IS   [CT]           GACCCCTATTTAGCCATTCACCCCAATTTCTTCACTTTTCCCTCATTTTACATAAGTACA[CT]ACATTCATCAACACATAAATTCCACAGGAATAAAAAAGCATAAAGAAAACCAAGAGCCT
38478 I    -          A  GCATGATTTGGGGGAAAGCGTGGCATTCTTCT
38478 P    A          A  CGGGCCGCAGGATGGCTTTGGCAACACY
38478 P    G          A  ATGACGTGGCAGACGTGGCTTTGGCAACAY
38478 T    A          A  ACACGTGTTGCCAAAGCCATGAAGAATGCCACGCTTTCCCCCAAATCATGCTC
38478 T    G          A  ACACGTGTTGCCAAAGCCACGAAGAATGCCACGCTTTCCCCCAAATCATGCTC

38478 IS   [AG]           GGCCACTGGCTCCTGAGATGTGTCTGGGAGCATGATTTGGGGGAAAGCGTGGCATTCTTC[AG]TGGCTTTGGCAACACGTGTCAGAAAGAACCTGGTGCTGGGGAAAGCAGGTGTCAGTACCA
38481 I    -          A  GTTCCCACGATTCCTGCCCAGCCAAT
38481 P    A          A  CGCGCCGAGGAAGCTCTCCCTAGAACY
38481 P    G          A  ATGACGTGGCAGACGCGCTCTCCCTAGAAY
38481 T    A          A  TGGGGTTCTAGGGAGAAGCGTTTGGCTGGGCAGGAATCGTGGGAACCG
38481 T    G          A  TGGGGTTCTAGGGAGAAGCGCTTGGCTGGGCAGGAATCGTGGGAACCG

38481 IS   [AG]           CTGCCCGGCCACTGCCTCCTCCTAGGGCAGCAGCGGTTCCCACGATTGCTGCCCAGCAA[AG]CGCTCTCCCTAGAACCCCACCTAGTTGGCCAGAGTGGGATTCCGGAGGGGCCAGGCCAT
38489 I    -          A  GATCTTTCTTCCAAGGAGGTGGCACTACCTACCCT
38489 P    C          A  CGCGCCGAGGCAGAAGGTCAAGAAAGTCAAY
38489 P    G          A  ATGACGTGGCAGACGAGAAGGTCAAGAAAGTCAAY
38489 T    C          A  TTTGTTGACTTTCTTGACCTCTGGGGTAGGTAGTGCCACCTCCTTGGAAGAAAGATCCT
38489 T    G          A  TTTGTTGACTTTCTTGACCTCTCCGGGTAGGTAGTGCCACCTCCTTGGAAGAAAGATCCT

38489 IS   [CG]           AATCATTGCCCTGGCATCACGAAAAGCATCTTCTTCCAAGGAGGTGGCACTACCTACCC[CG]AGAAGGTCAAGAAAGTCAACAAAAACAGTCTGCTTATGACAGGCATATTATGGTCTATAA
38494 I    -          A  CACGTGCCGGGAGTCCCACATTTTTTCTCA
38494 P    C          A  ATGACGTGGCAGACGCAACAACCTGATAAGCATY
38494 P    T          A  CGCGCCGAGGTGACAACCTGATAAGCATCY
38494 T    C          A  AGGAGATGCTTATCAGGTTGTCGGAGAAAAAAATGTGGGACTCCCGCCACGTGGG
38494 T    T          A  AGGAGATGCTTATCAGGTTGTCAGAGAAAAAAATGTGGGACTCCCGCCACGTGGG

38494 IS   [CT]           GGAGTTGGCCGCTGTGGAAAGGCCCTGTCCCACGTGGCGGGAGTCCCACATTTTTTTCTC[CT]GACAACCTGATAAGCATCTCCTTGGCCCAAAGTCCTGGGAGCTGAAAGCAGGCCTCAGT
38498 I    -          S  CATAAACGCACAGCGGAAGAGACCAAGGCACA
38498 P    A          S  CGCGCCGAGGTGACAATTTGGGACACTCY
38498 P    G          S  ATGACGTGGCAGACCGACACAATTTGGGACACTY
38498 T    A          S  TTCAGAGTGTCCCAAATTGTCATGTGCCTTGGTCTCTTCCCTGTCCGTTTATGCT
38498 T    G          S  TTCAGAGTGTCCCAAATTGTCGTGTGCCTTGGTCTCTTCCCTGTCCGTTTATGCT

38498 IS   [AG]           AAGGGTCAAAGACCCCCCCCCCCATTAATTATTCCTCTATTCAGAGTGTCCCAAATTGTC[AG]TGTGCCTTGGTCTCTTCCCTGTCCGTTTATGCTTACGTGTCGTGGAAGGAGAGCTGTACA
38514 I    -          S  CTGCTGCCTCGTTCACCTCACGGGT
38514 P    T          S  CGCGCCGAGGAAATCCCAGCTCCGTY
38514 P    G          S  ATGACGTGGCAGACCAATCCCAGCTCGTY
38514 T    T          S  ACTAACGGAGCTGGGATTTCCCGTGAGGTGAACGAGGCAGCAGCA
38514 T    G          S  ACTAACGGAGCTGGGATTGCCCGTGAGGTGAACGAGGCAGCAGCA

38514 IS   [TG]           TCAGGTTGGAGCAGCCGCGGGCTCCCCAGCCTCTCTGTTCCCACTAACGGAGCTGGGATT[TG]CCCCGTGAGGTGAACGAGGCAGCAGCAGCACCTTTTTTGGAAAGTCAAAAGTGAAAAGAA
38543 I    -          S  GAGGCCTAAGCTGCTTTTGCTTTTTAAGGTGTTGAGATGC
38543 P    A          S  CGCGCCGAGGTTGGAATTTGTATTGCGAGTY
38543 P    T          S  ATGACGTGGCAGACATGGAATTTGTATTGCGAGTY
38543 T    A          S  TGACACTGCGAATACAAATTCCAACATCTCAACACCTTAAAAAGCAAAAAGCAGCTTAGGCCTCAA
38543 T    T          S  TGACACTGCGAATACAAATTCCATCATCTCAACACCTTAAAAAGCAAAAAGCAGCTTAGGCCTCAA

38543 IS   [AT]           TGTTGGCAATACACAAGCATTTCTCTCTAAATAACATTGACACTCGCAATACAAATTCCA[AT]CATCTCAACACCTTAAAAAGCAAAAAGCAGCTTAGGCCTCAAATCCTGCCTAGTGAATAT
38545 I    -          A  GCTCGGTCCTCTCTCTGTCTGGGTCTGTA
38545 P    C          A  ATGACGTGGCAGACCCCTCCTGCTCCAGT
38545 P    T          A  CGCGCCGAGGTCCTCCTGCTCCAGTY
38545 T    C          A  GGCCACTGGAGCAGGAGGGCACAGACGCAGCAGACAGAGAGAGGACCGAGCCA
38545 T    T          A  GGCCACTGGAGCAGGAGGAACAGACGCAGCAGACAGAGAGAGGACCGAGCCA

38545 IS   [CT]           TGGTCGGGGGCTTGTGGGTGGCCCCCATTGGCTCGGTCCTCTCTCTGTCTTGGTCTGT[CT]CCTCCTGCTCCAGTGGCCCCCAATGCTCTGGGCTCATTCTCCAGAGTCCTGTGCCCTGGG
38551 I    -          A  CTCAAGGTCTCTGTCAGAGTGATATCTCCCCATCTTGTAAAAAA
38551 P    C          A  ATGACGTGGCAGACCGGCCAGTAGCCTCY
38551 P    T          A  CGCGCCGAGGTGGCCAGTAGCCTCY
38551 T    C          A  CAAGGAGGCTACTGGCCGTTTTTACAAGATGGGGAGATATCACTCTGACAGAGACCTTGAGCC
38551 T    T          A  CAAGGAGGCTACTGGCCATTTTTACAAGATGGGGAGATATCACTCTGACAGAGACCTTGAGCC

38551 IS   [CT]           CCCGCACCCAAATGAGGCTCAAGGTCTCTGTCAGAGTGATATCTCCCCATCTTGTAAAAA[CT]GGCTCAGTAGCCTCCTTGCTGAGCCATGCCGAAGAAAAACGGGAGCTGAGCAAGAGATGCC
38572 I    -          S  TCAGTTTTGCTCACCAGGGGTCCCCAGA
38572 P    G          S  ATGACGTGGCAGACCACTGGCCCAGGCY
38572 P    A          S  CGCGCCGAGGTACTGGCCCAGGCY
38572 T    G          S  TGGTGCCTGGGCCAGTGCTGGGGACCCCTGGTGAGCAAAACTGAGA
38572 T    A          S  TGGTGCCTGGGCCAGTACTGGGGACCCCTGGTGAGCAAAACTGAGA

38572 IS   [GA]           AGAGGCCATGAGCCTGCAGGAGTGCCCTTCCCTCCTACTCCTGGTGCTGCCTGGGCCAGT[GA]CTGGGGACCCCTGGTGAGCAAAACTGAGACCCCTCCTCAAGGTGAGAAACAAGGGAGCC
38583 I    -          S  GCCCACCCCTTTTATGTAGCTGTCTCTCTCCAAGC
38583 P    A          S  CGCGCCGAGGTGGCAGAAAAAGGGTGAY
38583 P    T          S  ATGACGTGGCAGACAGGGAGAAAAAGGGTGAY
38583 T    A          S  TTGATCACCCTTTTCTCCCACTTGGAGAAGAGACAGCTACATAAAAGGGGTGGGCTT
38583 T    T          S  TTGATCACCCTTTTCTCCCTCCTGGAGAAGAGACAGCTACATAAAAGGGGTGGGCTT

38583 IS   [AT]           CTTCAAAAAGACAATCTGACTTTCTGTACCTTCAGCAGTTGATCACCCTTTTCTCCC[AT]CTTGGAGAAGAGACAGCTACATAAAAGGGGTGGGCTTTCTTTCCATACCAAGCAAACCT
38584 I    -          A  GGCATTTTTGACTATCACCTCCAAGGAATAGCC
38584 P    T          A  CGCGCCGAGGTTGAGAAACCCAAAGTACTATGY
38584 P    A          A  ATGACGTGGCAGACATGAGAAACCCAAAGTACTATGY
38584 T    T          A  GCAGCATAGTACTTTGGGTTTCTCAAGCTATTCCCTTGGAGGTGATAGTCAAAAATGCCTT
38584 T    A          A  GCAGCATAGTACTTTGGGTTTCTCATGCTATTCCCTTGGAGGTGATAGTCAAAAATGCCTT

38584 IS   [TA]           GTCAAATTCTAAGCATATGTCTTAAAAGGCATTTTTGACTATCACCTCCAAGGAATAGC[TA]TGAGAAACCCAAAGTACTATGCTGCAGTCGGGGGCAGAGGTGGATTGCAGCAGTATCCTCA
38600 I    -          A  CGGGTGAGCTGGGGCACGGGT
38600 P    A          A  CGCGCCGAGAGAGACCTGCGAAATAGY
38600 P    G          A  ATGACGTGGCAGACGAGACCTGCGAAATAGY
38600 T    A          A  TTTGCTATTTCGCAGGCTCTCCCGTGCCCCAGCTCACCCGAG
38600 T    G          A  TTTGCTATTTCGCAGGCTCCCCCGTGCCCCAGCTCACCCGAG

38600 IS   [AG]           CACACACACACACACCACCACACACACCCGCCCGGCTCGGGTGAGCTGGGGCACGGG[AG]GAGCCTGGGAAATAGCAAAGTTGTGCAAAGCAGGAGGAAACCCCAGTGAGAGAGGCAGGT
38606 I    -          A  CCCAGTCTCCTGTCTCTCAGGAGCCACAT
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38606 P  A    A  CGCGCCGAGGAGCTGAGGTTTTAAAATTGGAT
38606 P  G    A  ATGACGTGGCAGACGGCTGAGGTTTTAAAATTGGY
38606 T  A    A  TGTCTCCAATTTTAAAACCTCAGCTTGTGGCTCCTGAGAGACAGGAGACTGGGAG
38606 T  G    A  TGTCTCCAATTTTAAAACCTCAGCCTGTGGCTCCTGAGAGACAGGAGACTGGGAG

38606 IS [AG]      TTAGCTAGGTTTGGTGTCTCTACCATCGTTCTCCCAGTCTCCTGTCTCTCAGGAGCCACA[AG]GCTGAGGTTTTAAAATTGGAGACACCATAAGGAAAGTAGTGTTTGGGGTGAACAGTAAAT
38608 I    S  CATGCTCAGCCCCCACCCCAGTCC
38608 P  A    S  CGCGCCGAGGTGAAAAGATACACAAAGGGTTY
38608 P  T    S  ATGACGTGGCAGACGAAAAAGATACACAAAGGGTTY
38608 T  A    S  AGGAAACCCTTTGTGTATCTTTTCAGACTGGGGTGGGGGCTGAGCATGCT
38608 T  T    S  AGGAAACCCTTTGTGTATCTTTTCTGACTGGGGTGGGGGCTGAGCATGCT

38608 IS [AT]      TTATGTTTAAAGGTCATAGTGTATAAGTAGCTTCCTAGGAAACCCTTTGTGTATCTTTTC[AT]GACTGGGGTGGGGGCTGAGCATGCTTGTGCAGAAAGAAGCCATAGCCAGAAAGGACAGAA  KIAA0193
38615 I         S  CTCCCCTTCACCCCTCCCTCGGGT
38615 P  T    S  CGCCCCGAGGATCTGTGGCTCCTACCY
38615 P  C    S  ATGACGTGGCAGACGCTCTGTGGCTCCTACCY
38615 P  T    S  TGCAGGTAGGAGCCACAGATCCCCAGGGCAGGGGTGAAGCGGAGGA
38615 T  T    S  TGCAGGTAGGAGCCACAGACCCCAGGGCAGGGGTGAAGGGGAGGA

38615 IS [TC]      TACTCCGGGGGTGACTCTGATGCCTCCCCAGGTCCCCAGGATGGAGGTAGGAGCCACAGA[TC]CCCCAGAGGGAGGGGTGAAGGGGAGGAACTGTGGACTGCAGCAAACCCTCAGCATCCCCTCCCC
38640 J         S  AGAACCAGCCCACGGAGAGCCTCTTCCT
38640 P  C    S  ATGACGTGGCAGACGCGCCACTGCTGAT
38640 P  T    S  CGCGCCGAGGAAGCGCCACTGCTGAAY
38640 T  C    S  CAAGTTCAGCAGTGGCGCGGAAGAGGCTCCGTGGGCTGGTTCTGT
38640 T  T    S  CAAGTTCAGCAGTGGCGTGGAAGAGGCTCCGTGGGCTGGTTCTGT

38640 IS [CT]      GTCCAGGGCAGGGGGTGGTGGACAATACAGCATCCAGTTTACCAAGTTCAGCAGTGGCG[CT]GGAAGAGGCTCCGTGGGCTGGTTCTGTTGTGATGCCCACTGTATTACAGTTGCTGTGC
38641 I         A  CGGCCCAGGTGCAGAGTCTCCTCTAATCTCC
38641 P  T    A  CGCGCCGAGGTTCAGTGGAGTTAATGTTTATTGY
38641 P  G    A  ATGACGTGGCAGACGTCAGTGGAGTTAATGTTTATTGY
38641 T  T    A  TCTTCAATAAACATTAACTCCACTGAAGAGATTAGAGGAGACTCTGCACCTGGGCCGTC
38641 T  G    A  TCTTCAATAAACATTAACTCCACTGACGAGATTAGAGGAGACTCTGCACCTGGGCCGTC

38641 IS [TG]      TGCCCTGCGTTTTGGGCAATGAAACTAGGACGGCCCAGGTGCAGAGTCTCCTCTAATCTC[TG]TCAGTGGAGTTAATGTTTATTGAAGACCTAATGTAGGCCTGATGTTGGCTAGATCCTTTT
38701 I         A  AGTCAGTGTGTGTGGAAGAGAGCAGGTGCTT
38701 P  C    A  CGCGCCGAGGCAACACATGTGAGTTTTCAATY
38701 P  G    A  ATGACGTGGCAGACGAAACACATGTGAGTTTTCAATY
38701 T  C    A  TAACATTGAAAACTCACATGTGTTGAGCACCTGCTCTCTTCCACACACACTGACTGC
38701 T  G    A  TAACATTGAAAACTCACATGTGTTCAGCACCTGCTCTCTTCCACACACACTGACTGC

38701 IS [CG]      GACTCAGCCAGGCAGCACAGAAAACCCAGCAGTCAGTGTGTGTGGAAGAGAGCAGGTGCT[CG]AACACATGTGAGTTTTCAATGTTACTATGAATAATAGGCTGAACATTTCTCTCTGACTTG
38714 I         A  CCACAGCCCTCTTTATGTCTTTATTCCTCAGACTATAGATT
38714 P  A    A  CGCGCCGAGGAAAGGGGTTCAGCATGY
38714 P  G    A  ATGACGTGGCAGACGAAGGGGTTCAGCATGY
38714 T  A    A  CCCCCATGCTGAACCCCTTTATCTATAGTCTGAGGAATAAAGACATAAAGAGGCTCTGGGA
38714 T  G    A  CCCCCATGCTGAACCCCTTCATCTATAGTCTGAGGAATAAAGACATAAAGAGGCTCTGGGA

38714 IS [AG]      TCCCCACAACAAATGTATTCCCAGAGCCCTCTTTATGTCTTTATTCCTCAGACTATAGAT[AG]AAGGGGTTCAGCATGGGGGTGACCACAGTGTACATCACTGAGGCTGTTGCACTTGAGTGT  OR7C1
38725 I         S  GGTATTTAGAAAATTATGTGGCCTAGCTTCCTTAGGGATTAT
38725 P  T    S  CGCGCCGAGGAATTCTCAGCAAGTTTCATTTATY
38725 P  G    S  ATGACGTGGCAGACATTCTCAGCAAGTTTCATTTATY
38725 T  T    S  AGGCATAAATGAAACTTGCTGAGAATTTAATCCCTAAGGAAGCTAGGCCACATAATTTTCTAAATACCTC
38725 T  G    S  AGGCATAAATGAAACTTGCTGAGAATGTAATCCCTAAGGAAGCTAGGCCACATAATTTTCTAAATACCTC

38725 IS [TG]      CAGTTAATTCTCATTAAAGTCCACAGTAAACTTTAGGCATAAATGAAACTTGCTGAGAAT[TG]TAATCCCTAAGGAAGCTAGGCCACATAATTTTCTAAATACCTCTTTTCTGTAAAATGCAA
38727 I         A  ACCTGGACACGTGGTGCACTTAGCCAT
38727 P  A    A  CGCGCCGAGGACTGACTTATTTTACCTGGY
38727 P  G    A  ATGACGTGGCAGACGCACTGACTTATTTTACCTGY
38727 T  A    A  TAGGCCAGGTAAAATAAGTCAGTGTTGGCTAAGTGCACCACGTGTCCAGGTGT
38727 T  G    A  TAGGCCAGGTAAAATAAGTCAGTGCTGGCTAAGTGCACCACGTGTCCAGGTGT

38727 IS [AG]      CGTCTTCCCCAGCCCCAGGCTTTCTGAGGCCACACCTGGACACGTGGTGCACTTAGCCA[AG]CACTGACTTATTTTACCTGGCCTATCTCTTTGCCTTGTTGGGTGAAATTAATGCCTTTGA
38761 I         A  GCCGCTGCGCGCTCACTGACT
38761 P  C    A  CGCGCCGAGGCTGTGGAGCCCGGY
38761 P  G    A  ATGACGTGGCAGACGTGTGGAGCCCGGY
38761 T  C    A  TCACCCGGGCTCCACAGGTCAGTGACGCGCAGCGGCTC
38761 T  G    A  TCACCCGGGCTCCACAGGTCAGTGACGCGCAGCGGCTC

38761 IS [CG]      CTGGGGCCCGAAGCAGCTTCGGGAGCCACAGTCGCGGGAGCCCGTCGGCGTCACTGACC[CG]TGTGGAGCCCGGGTGACGAAATCTCGCGTGATTTGCCGAAACAGGCTGTACTGCACGA
38763 I         A  CCAGGACCACCTTGCGAAGCCGAAAATACACT
38763 P  A    A  CGCGCCGAGGATCTGCATTTTACCGACAAY
38763 P  G    A  ATGACGTGGCAGACGTCTGCATTTTACCGACAY
38763 T  A    A  TTCGTTGTCGGTAAAATGCAGACGTGTATTTTCGGCTTCGCAAGGTGGTCCTGGGG
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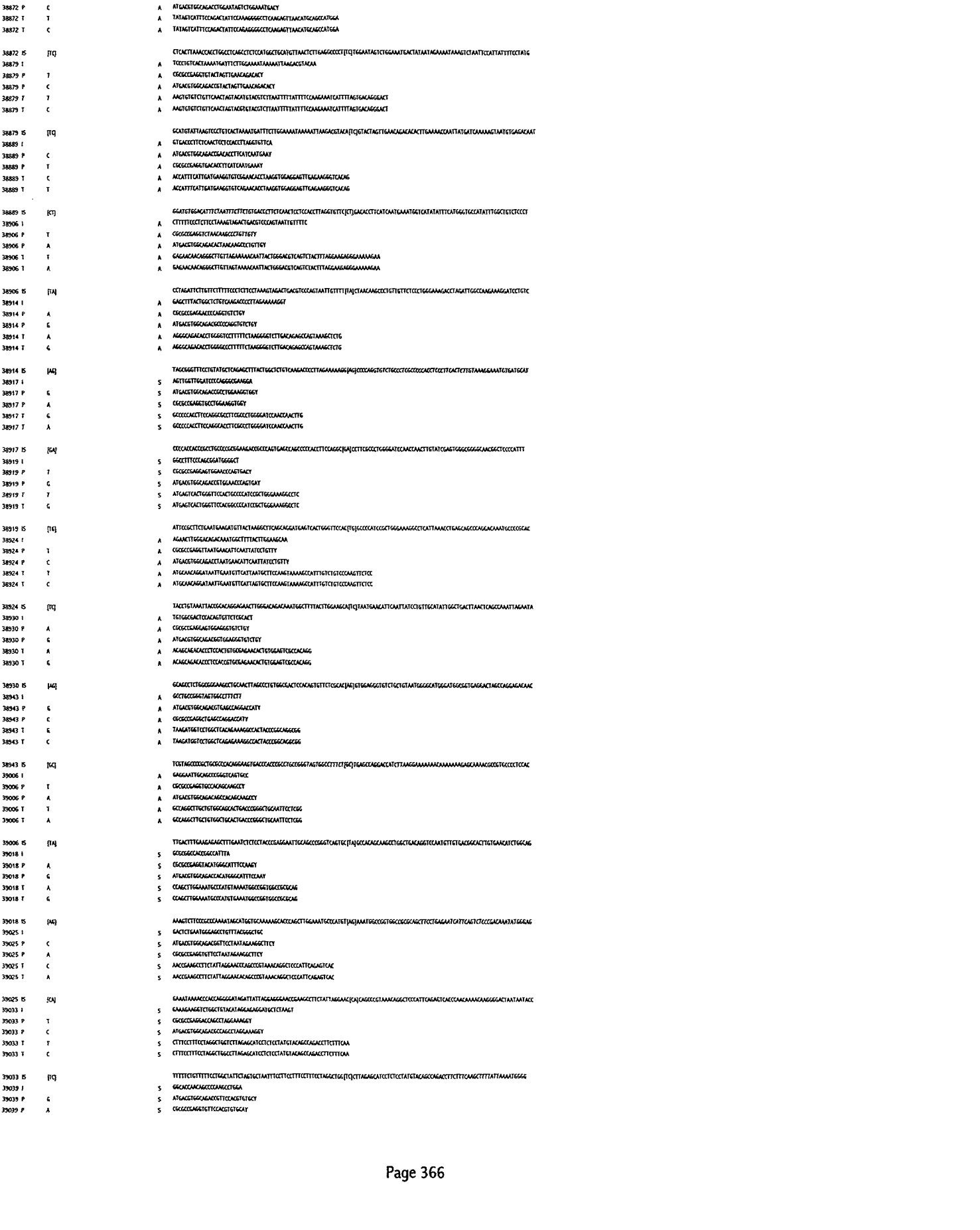
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38793 I         S  CAGAAAACAAGCAGTCAACCTGGATGCAACCAA
38793 P  G    S  ATGACGTGGCAGACCTTCTTCATTAAACAAACCTCTGY
38793 P  A    S  CGCGCCGAGGTTTCTTCATTAAACAAACCTCTGY
38793 T  G    S  AGGTCAGAGGTTTGTTTAATGAAGAAGTGGGTTGCATCCAGGTTGACTCCTTGTTTTCTGTC
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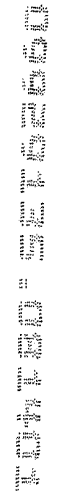
38793 IS [GA]      GGGAGAAAGTGACCAATATCTGTGCTGTCTCCCGAGGTCAGAGGTTTGTTTAATGAAGAA[GA]TGGGTTGCATCCAGGTTGACTCCTTGTTTTCTGTCCTCCTGTGTCCAGTGCGATCTGGA
38837 I         S  CCAGGTCCCAAAACAGTGCCTTTGATGCAGATTT
38837 P  G    S  CGCGCCGAGGCTGTACATCTCTAGACGATTGY
38837 P  C    S  ATGACGTGGCAGACGTGTACATCTCTAGACGATTGY
38837 T  G    S  GGACCAATCGTCTAGAGATGTACAGAATCTGCATCAAAGGCACTGTTTTGGGACCTCGCG
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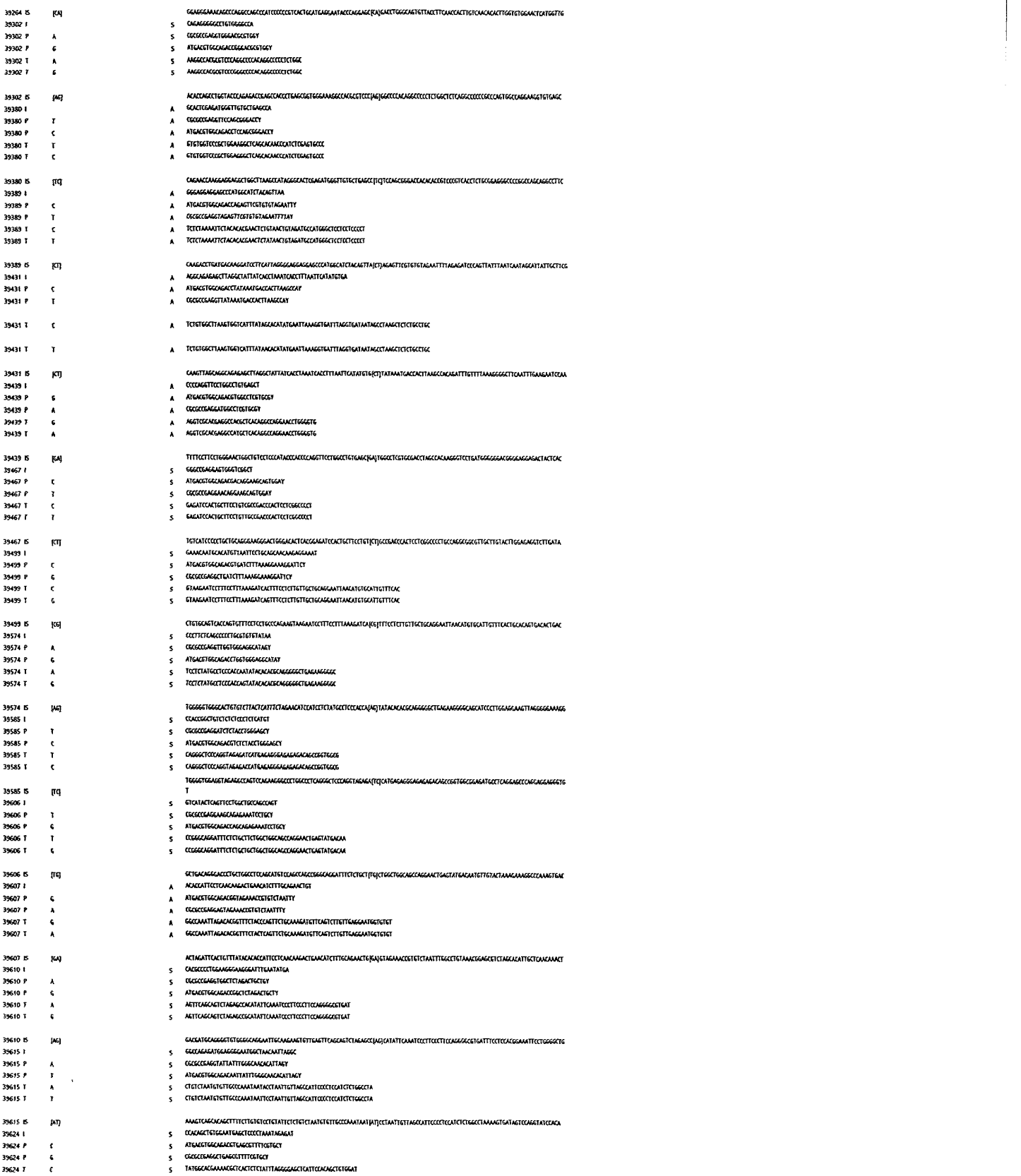
38837 IS [GC]      AGACTGGACCACTGGGGCCAGAGCACATTCAGCCCTTGGACCAATCGTCTAGAGATGTACA[GC]AATCTGCATCAAAGGCACTGTTTTGGGACCTCCGCGCATGAATCATGAGTGACCCTGAGTG
38868 I         A  GCCTCTAGGGAGATAGTGGCCTGACAAAGCAAAC
38868 P  T    A  CGCGCCGAGGTAGTTGGTGAGTCTACAAGAY
38868 P  G    A  ATGACGTGGCAGACGAGTTGGTGAGTCTACAAGY
38868 T  T    A  AGAATCTTGTAGACTCACCAACTATTTCCTTTGTCAGGCCACTATCTCCCTAGAGGCCC
38868 T  G    A  AGAATCTTGTAGACTCACCAACTCTTTCCTTTGTCAGGCCACTATCTCCCTAGAGGCCC

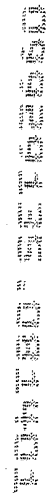
38868 IS [TC]      TTCACTATGTAGAGCAGGGCAGAATGGGCCTCTAGGGAGATAGTGGCCTGACAAAGAAA[TG]AGTTGGTGAGTCTACAAGATTCTTATAGGATACTCTTGAAATTGTGTGCAGTTAAAACA
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38872 I         A  CATGGCTGCATGTTAACTCTTGAGCCCCTA
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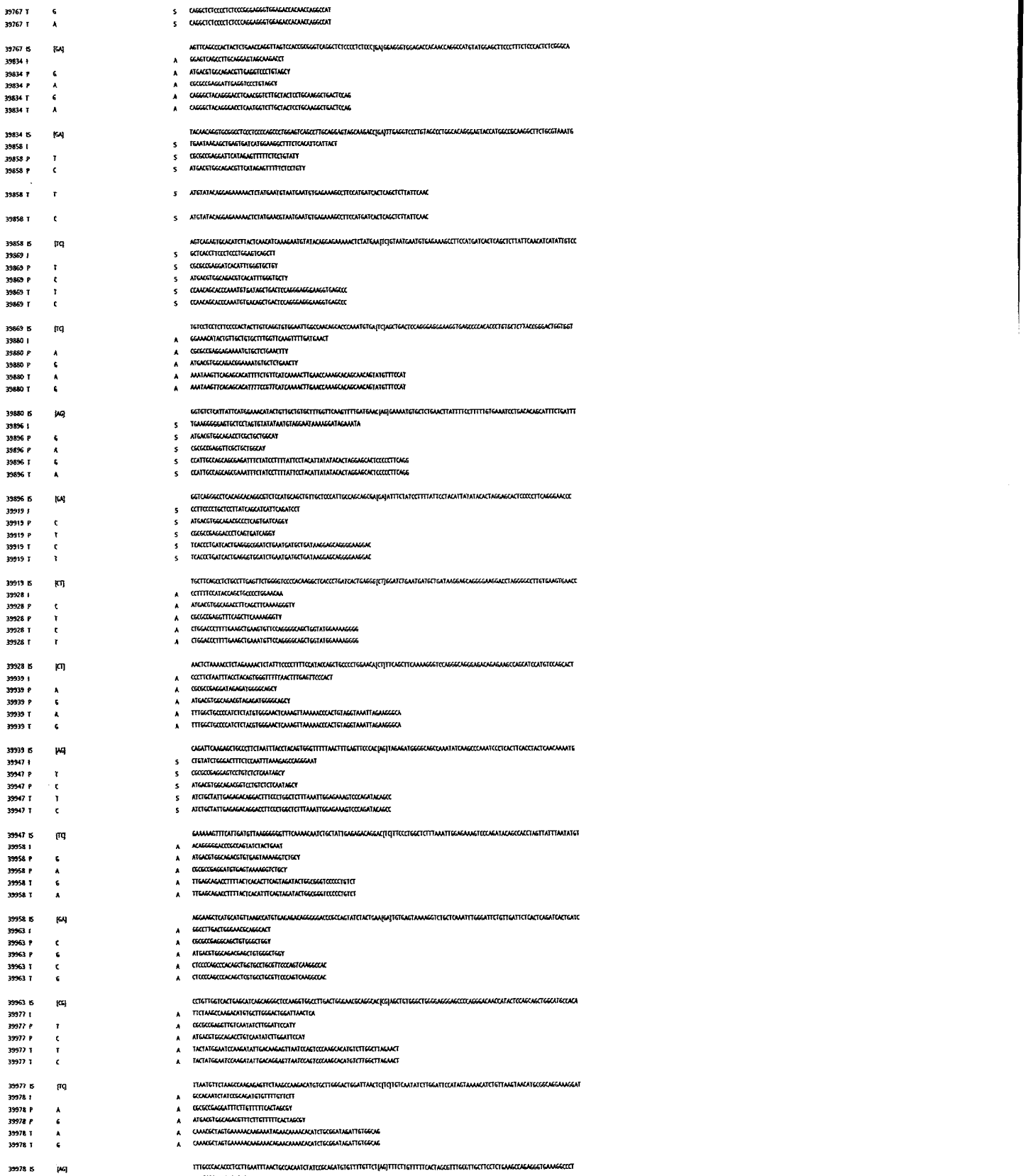
FIGURE 129F

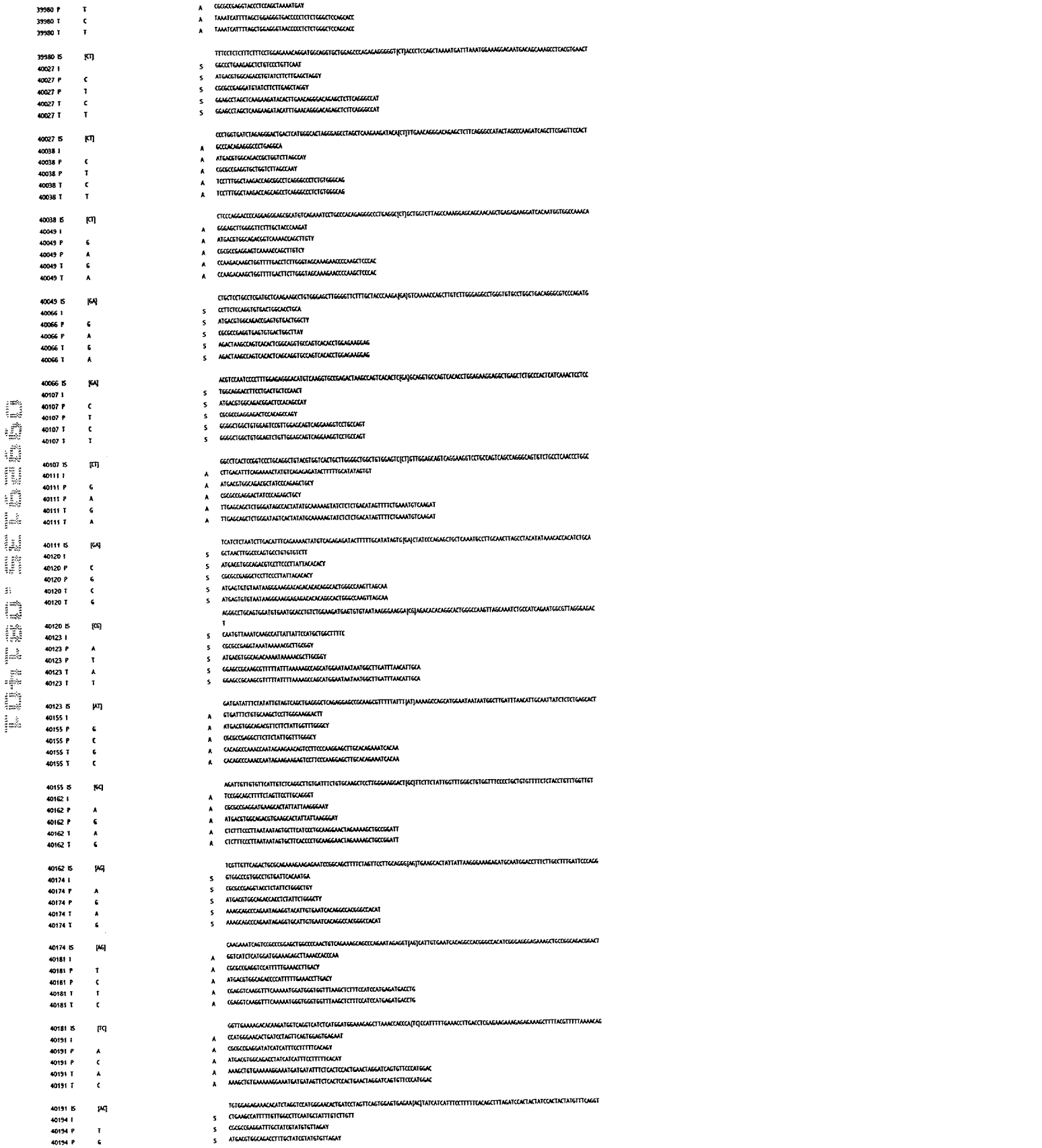











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39980 T C A TAAATCATTTTAGCTGGAGGGTGACCCCCTCTCTCGGCTCCAGCACC
39980 T T A TAAATCATTTTAGCTGGAGGGTAACCCCCTCTCTCGGCTCCAGCACC
39980 IS [CT] TTTCCTCTCTTTCTTTCCTGGAGAAACAGGATGGCAGGTGCTGGAGCCCAGAGAGGGGGT[CT]ACCCTCCAGCTAAAATGATTTAAATGGAAAGCAGAATGACAGCAAAGCCTCACGTGAACT
40027 I S GGCCCTGAAGAGCTCTGTCCCTGTTCAAT
40027 P C S ATGACGTGGCAGACGTGTATCTTCTTGAGCTAGGY
40027 P T S CGGGCCGAGGATGTATCTTCTTGAGCTAGGY
40027 T C S GGAGCCTAGCTCAAGAAGATACACTTGAACAGGGACAGAGCTCTTCAGGGCCAT
40027 T T S GGAGCCTAGCTCAAGAAGATACATTTGAACAGGGACAGAGCTCTTCAGGGCCAT
40027 IS [CT] CCCTGGTGATCTAGAGGGACTGACTCATGGGCACTAGGGAGCCTAGCTCAAGAAGATACA[CT]TTGAACAGGGACAGAGCTCTTCAGGGCCATACTAGCCCAAGATCAGCTTCGAGTTCCACT
40038 I A GCCCACAGAGGGCCCTGAGGCA
40038 P C A ATGACGTGGCAGACCGCTGGTCTTAGCCAY
40038 P T A CGCGCCGAGGTGCTGGTCTTAGCCAAY
40038 T C A TCCTTTGGCTAAGACCAGCAGCCTCAGGGCCCTCTGTGGGCAG
40038 T T A TCCTTTGGCTAAGACCAGCAGCCTCAGGGCCCTCTGTGGGCAG
40038 IS [CT] CTCCCAGGACCCCAGGAGGGAGCGCATGTCAGAAATCCTGCCCACAGAGGGCCCTGAGGC[CT]GCTGGTCTTAGCCAAAGGAGCAGCAACAGCTGAGAGAAGGATCACAATGGTGGCCAAACA
40049 I A GGGAGCTTGGGGTTCTTTGCTACCCAAGAT
40049 P G A ATGACGTGGCAGACGGTCAAAACCAGCTTGTY
40049 P A A CGCGCCGAGGAGTCAAAACCAGCTTGTCY
40049 T G A CCAAGACAAGCTGGTTTTGACCTCTTGGGTAGCAAAGAACCCCAAGCTCCCAC
40049 T A A CCAAGACAAGCTGGTTTTGACTTCTGGGTAGCAAAGAACCCCAAGCTCCCAC
40049 IS [GA] CTGCTCCTGCCTCGATGCTCAAGAAGCCTGTGGGAGCTTGGGGTTCTTTGCTACCCAAGA[GA]GTCAAAACCAGCTTGTCTTGGGAGGCCTGGGTGTGCCTGGCTGACAGGGCGTCCCAGATG
40066 I S CCTTCTCCAGGTGTGACTGGCAGCTGCA
40066 P G S ATGACGTGGCAGACCGAGTGTGACTGGCTY
40066 P A S CGCGCCGAGGTGAGTGTGACTGGCTTAY
40066 T G S AGACTAAGCCAGTCACACTCGGCAGGTGCCAGTCACACCTGGAGAAGGAG
40066 T A S AGACTAAGCCAGTCACACTCAGCAGGTGCCAGTCACACCTGGAGAAGGAG
40066 IS [GA] ACGTCCAATCCCCTTTGGAGAGGGACATGTCAAGGTGCCGAGACTAAGCCAGTCACACTC[GA]GCAGGTGCCAGTCACACCTGGAGAAGGAGGCTGAGCTCTGCCCACTCATCAAACTCCTCC
40107 I S TGGCAGGACCTTCCTGACTGCTCCAACT
40107 P C S ATGACGTGGCAGACGGACTCCACAGCCAY
40107 P T S CGCGCCGAGGAGACTCCACAGCCAGY
40107 T C S GGGGCTGGCTGTGGAGTCTGTTGGAGCAGTCAGGAAGGTCCTGCCAGT
40107 T T S GGGGCTGGCTGTGGAGTCTGTTGGAGCAGTCAGGAAGGTCCTGCCAGT
40107 IS [CT] GGCCTCACTCCGGTCCCTGCAGAGCTGTACGTGGTCACTGCTTGGGGCTGGCTGTGGAGTC[CT]GTTGGAGCAGTCAGGAAGGTCCTGCCAGTCAGCCAGGGCAGTGTCTGCCTCAACCCTGGC
40111 I A CTTGACATTTCAGAAAACTATGTCAGAGAGATACTTTTTGCATATAGTGT
40111 P G A ATGACGTGGCAGACGCTATCCCAGAGCTGCY
40111 P A A CGCGCCGAGGACTATCCCAGAGCTGCY
40111 T G A TTGAGCAGCTCTGGGATAGCCACTATATGCAAAAAGTATCTCTCTGACATAGTTTTCTGAAATGTCAAGAT
40111 T A A TTGAGCAGCTCTGGGATAGCCACTATATGCAAAAAGTATCTCTCTGACATAGTTTTCTGAAATGTCAAGAT
40111 IS [GA] TCATCTCTAATCTTGACATTTCAGAAAACTATGTCAGAGAGATACTTTTTGCATATAGTG[GA]CTATCCCAGAGCTGCTCAAATGCCTTGCAACTTAGCCTACATATAAACACCACATCTGCA
40120 I S GCTAACTTGGCCCAGTGCCTGTGTGTCTT
40120 P C S ATGAGGTGGCAGAGGTCCTTCCCTATTACACACY
40120 P G S CGGCCCGAGGCTCCTTCCCTATTACACACY
40120 T C S ATGAGTGTGTAATAAGGCAAGGACAGACACACAGGCACTGGGCCAAGTTAGCAA
40120 T G S ATGAGTGTGTAATAAGGCAAGGAGAGACACACAGGCACTGGGCCAAGTTAGCAA
40120 IS [CG] AGGGCCTGCAGTGGATGTGAATGCACCTGTCTGGAAGATGAGTGTGTAATAAGGGAAGGA[CG]AGACACACAGGCACTGGGCCAAGTTAGCAAATCTGCCATCAGAATGGCGTTAGGGAGAC
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40123 I S CAATGTTAAATCAAGCCATTATTATTCCATGCTGGCTTTTC
40123 P A S CGCGCCGAGGTAAATAAAAACGCTTGCGGY
40123 T A S ATGAGGTGGCAGACAAAATAAAAACGCTTGCGGY
40123 T A S GGAGCCGCAAGCGTTTTTATTTAAAAAGCCAGCATGGAATAATAATGGCTTGATTTAACATTGCA
40123 T T S GGAGCCGCAAGCGTTTTTATTTAAAAAGCCAGCATGGAATAATAATGGCTTGATTTAACATTGCA
40123 IS [AT] GATGATATTTCTATATTGTAGTCAGCTGAGGGCTCAGAGGAGCCGCAAGCGTTTTTATTT[AT]AAAAGCCAGCATGGAATAATAATGGCTTGATTTAACATTGCAATTATCTCTCTGAGCACT
40155 I A GTGATTTCTGTGCAAGCTCCTTGGGAAGGACTT
40155 P G A ATGACGTGGCAGACGTTCTTCTATTGGTTTGGGCY
40155 P C A CGCGCCGAGGCTTCTTCTATTGGTTTGGGCY
40155 T G A CACAGCCCAAACCAATAGAAGAAGAGTCCTTCCCAAGGAGCTTGCACAGAAATCACAA
40155 T C A CACAGCCCAAACCAATAGAAGAAGAGTCCTTCCCAAGGAGCTTGCACAGAAATCACAA
40155 IS [GC] AGATTGTTGTGTTCATTGTCTCAGGCTTGTGATTTCTGTGCAAGCTCCTTGGGAAGGACT[GC]TTCTTCTATTGGTTTGGGCTGTGGTTTCCCCTGCTGTGTTTTCTCTACCTGTTTGGTTGT
40162 I A TCCGGCAGCTTTTCTAGTTCCTTGCAGGGT
40162 P A A CGCGCCGAGGATGAAGCACTATTATTAAGGGAAY
40162 P G A ATGACGTGGCAGACGTGAAGCACTATTATTAAGGGAAY
40162 T A A CTCTTCCCTTAATAATAGTGCTTCATCCCTGCAAGGAACTAGAAAAGCTGCCGGATT
40162 T G A CTCTTCCCTTAATAATAGTGCTTCACCCCTGCAAGGAACTAGAAAAGCTGCCGGATT
40162 IS [AG] TCGTTGTTCAGACTGCGCAGAAAGAAGAGAATCCGGCAGCTTTTCTAGTTCCTTGCAGGG[AG]TGAAGCACTATTATTAAGGGAAAGAAGATGCAATGGAACCTTTCTTGGCTTTGATTCCCAGG
40174 I S GTGGCCCGTGGCCTGTGATTCACAATGA
40174 P A S CGCGCCGAGGTACCTCTATTCTGGGCTGY
40174 P G S ATGACGTGGCAGACCACCTCTATTCTGGGCTY
40174 T A S AAAGCAGCCCAGAATAGAGGTACATTGTGAATCACAGGCCACGGGCCACAT
40174 T G S AAAGCAGCCCAGAATAGAGGTGCATTGTGAATCACAGGCCACGGGCCACAT
40174 IS [AG] CAAGAAATCAGTCCGCCCCGGAGCTGGCCCCAACTGTCAGAAAGCAGCCCAGAATAGAGGT[AG]CATTGTGAATCACAGGCCACGGGCCACATCGGGAAGGAGAAAGCTGCCGGCAGACGGACT
40181 I A GGTCATCTCATGGATGGAAAGAGCTTAAACCACCCAA
40181 P T A CGCGCCGAGGTCCATTTTTGAAACCTTGACY
40181 P C A ATGACGTGGCAGACCCCATTTTTGAAACCTTGACY
40181 T T A CGAGGTCAAGGTTTCAAAAATGGATGGGTGGTTTAAGCTCTTTCCATCCATGAGATGACCTG
40181 T C A CGAGGTCAAGGTTTCAAAAATGGGTGGGTGGTTTAAGCTCTTTCCATCCATGAGATGACCTG
40181 IS [TC] GGTTGAAAAGACACAAGATGGTCAGGTCATCTCATGGATGGAAAGAGCTTAAACCACCCA[TC]CCATTTTTGAAACCTTGACCTCGAGAAGAAAGAGAGAAAGCTTTTACGTTTTTAAAACAG
40191 I A CCATGGGAAACACTGATCCTAGTTCAGTGGAGTGAGAAT
40191 P A A CGCGCCGAGGATATCATCATTTCCTTTTCACAGY
40191 P C A ATGACGTGGCAGACCTATCATCATTTCCTTTTCACAGY
40191 T A A AAAGCTGTGAAAAAGGAAATGATGATATTTCTCACTCCACTGAACTAGGATCAGTGTTCCCATGGAC
40191 T C A AAAGCTGTGAAAAAGGAAATGATGATAGTTCTCACTCCACTGAACTAGGATCAGTGTTCCCATGGAC
40191 IS [AC] TGTGGAAGAAAACACATCTAGGTCCATGGCAACACTGATCCTAGTTCAGTGGAGTGAGAA[AC]TATCATCATTTCCTTTTTCACAGCTTAGATCCACTACTATCCACTACTATGTTTCAGGT
40194 I S CTGAAGCATTTTTGTTGGCCTTCAATGCTATTTGTCTTGTT
40194 P T S CGCGCCGAGGATTTGCTATCGTATGTGTTAGAY
40194 P G S ATGAGGTGGCAGACCTTTGCTATCGTATGTGTTAGAY

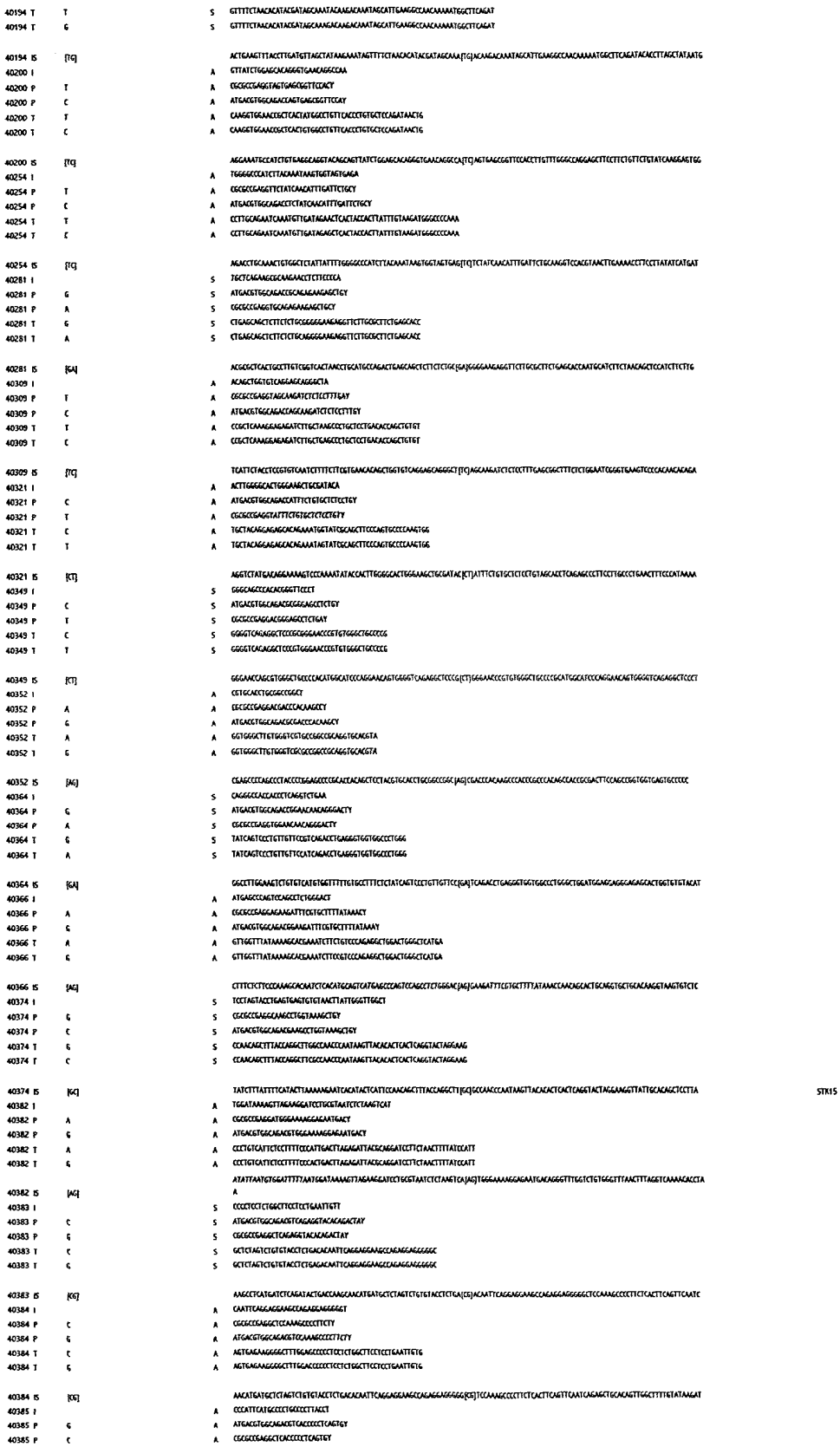


FIGURE 129F

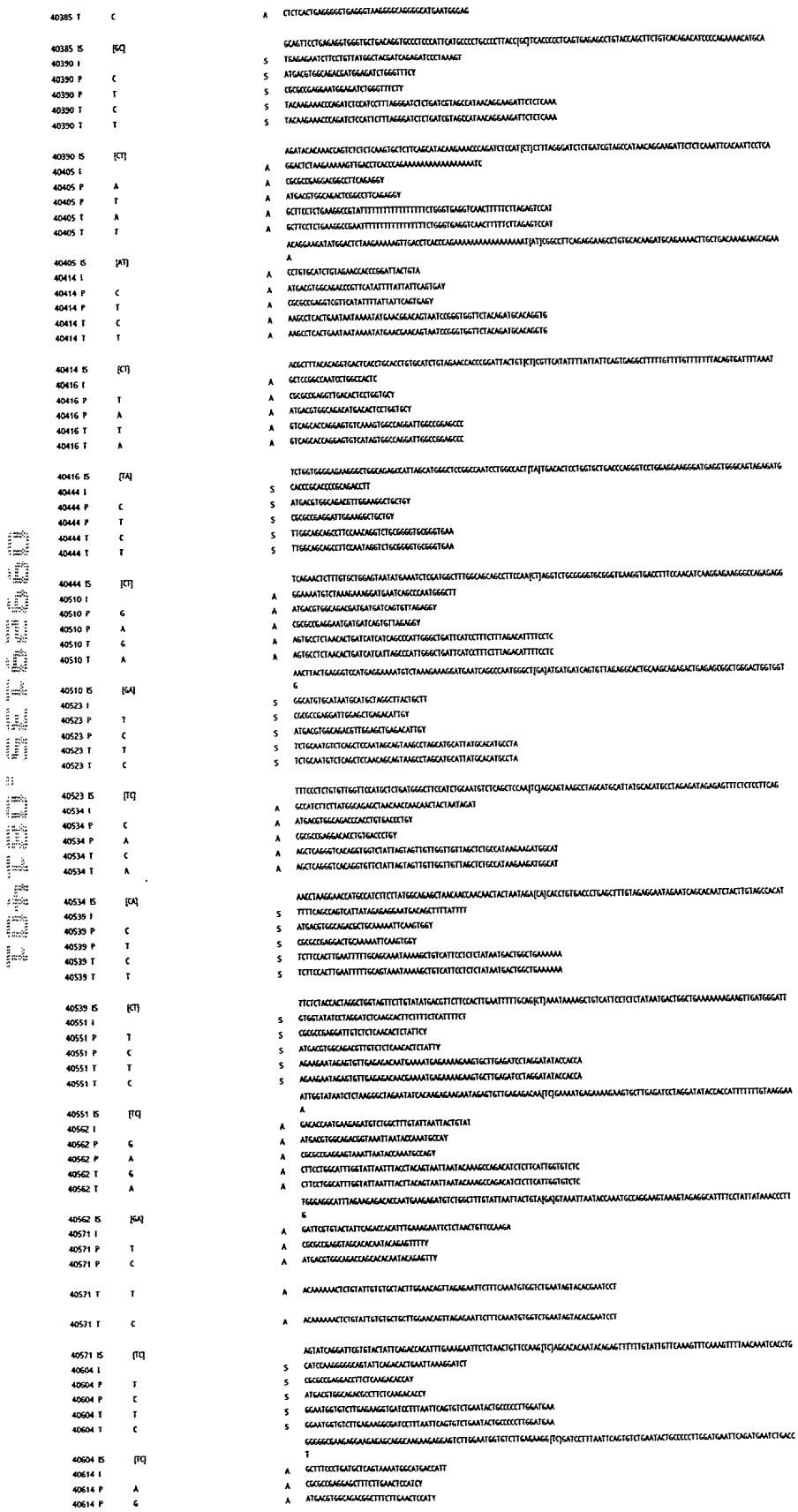




FIGURE 129F

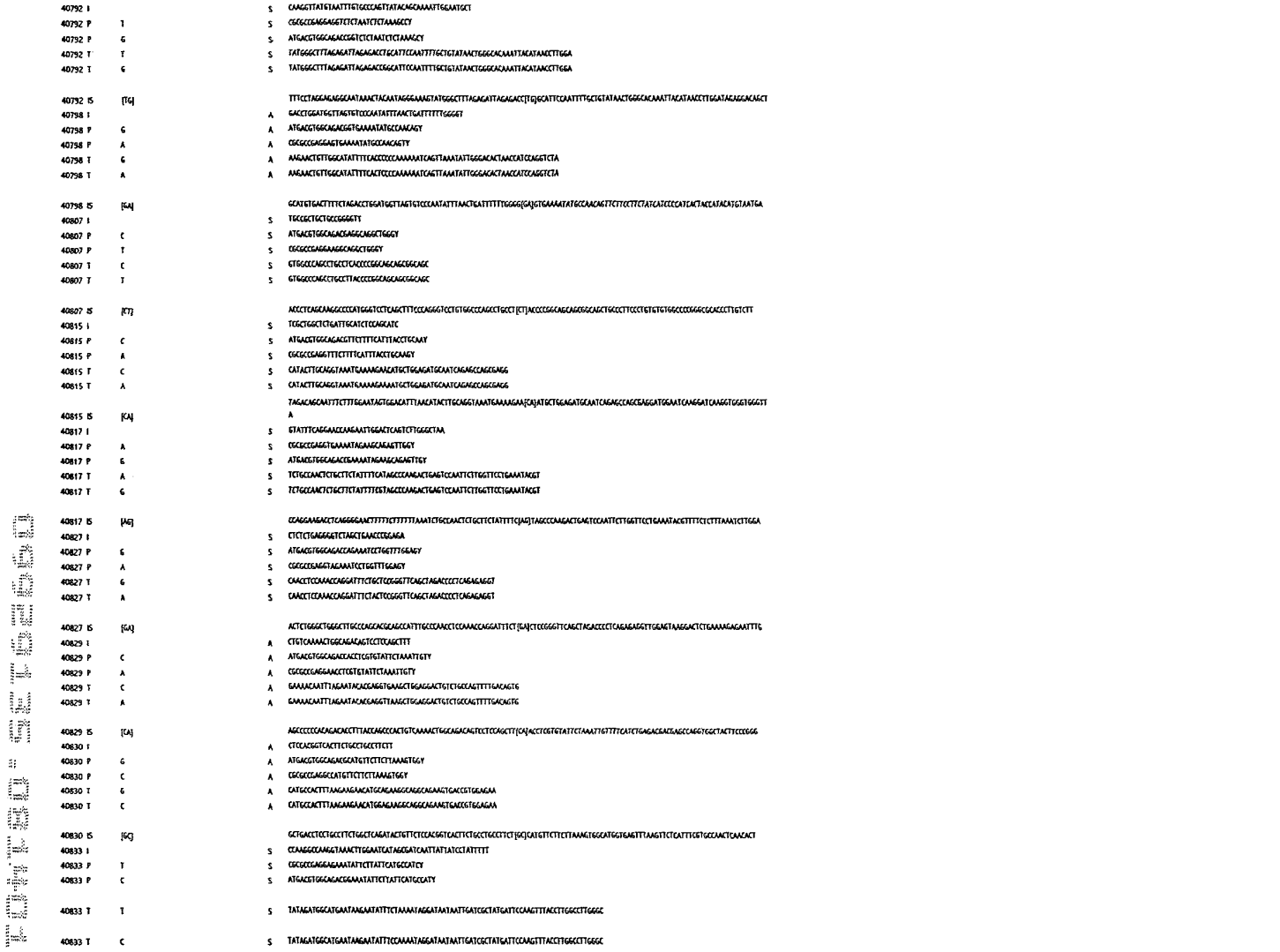
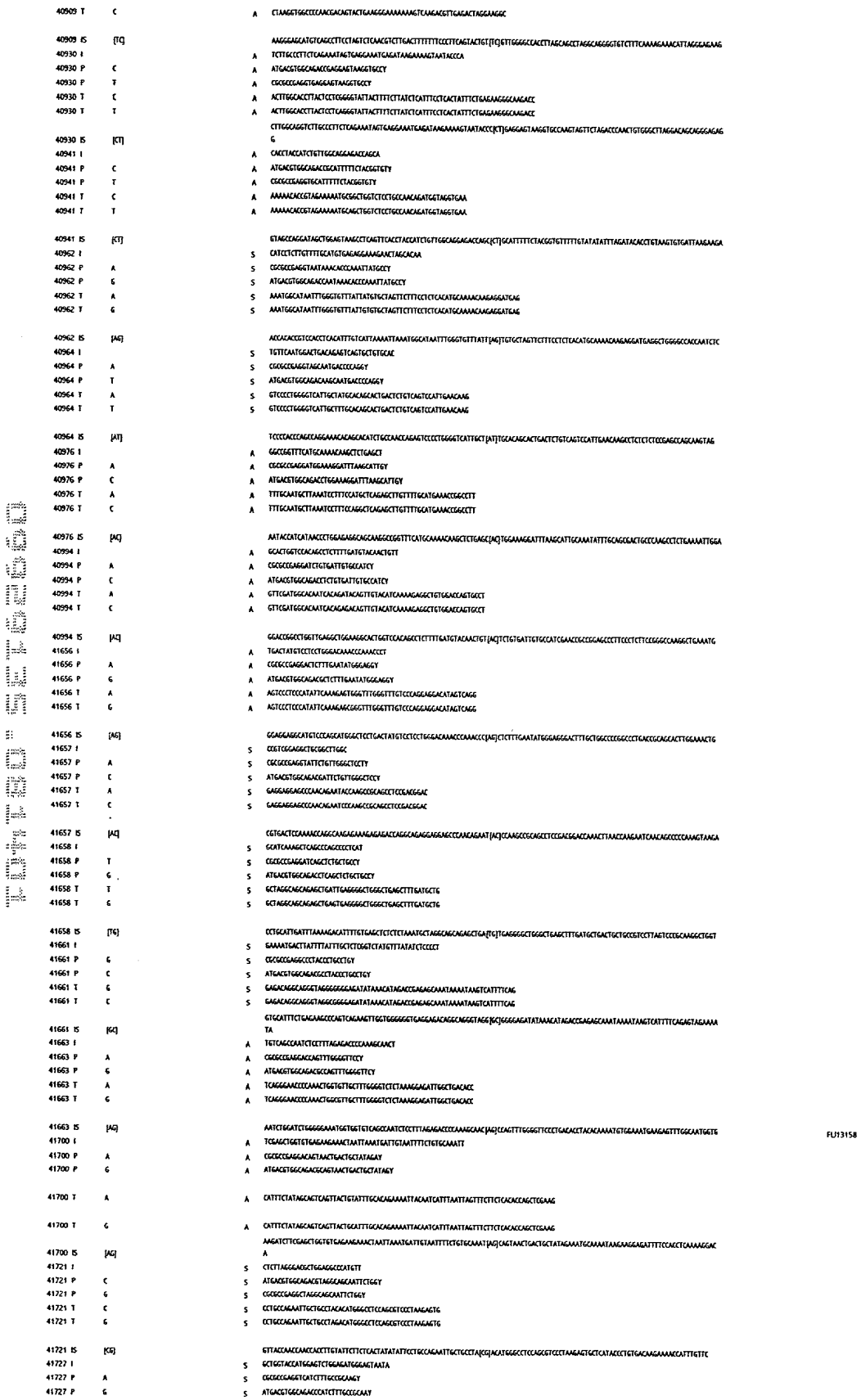
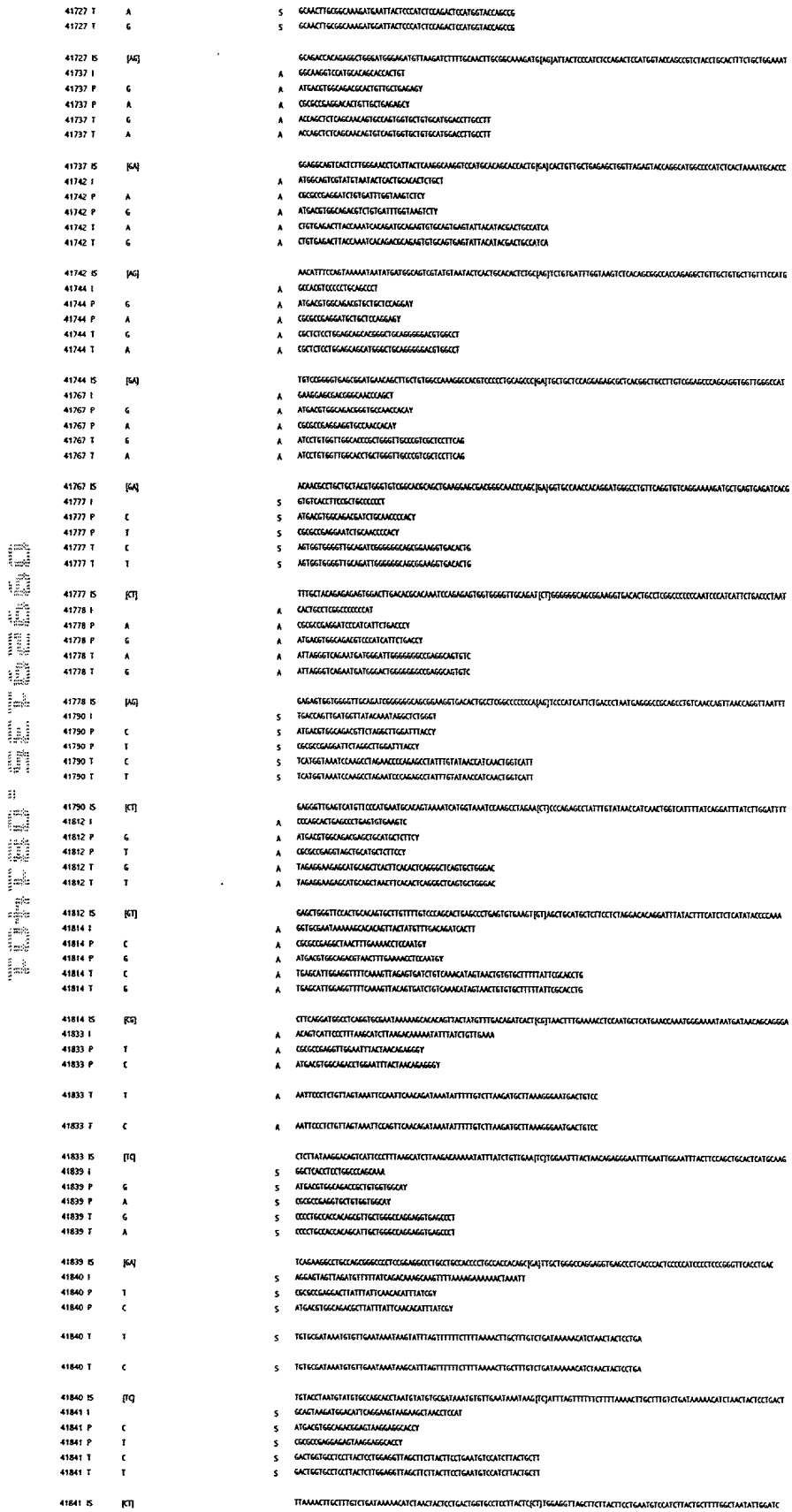

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40792 P G S ATGACGTGGCAGACCGGTCTCTAATCTCTAAAGCY
40792 T T S TATGGGCTTTAGAGATTAGAGACCTGCATTCCAATTTTGCTGTATAACTGGGCACAAATTACATAACCTTGGA
40792 T G S TATGGGCTTTAGAGATTAGAGACCGGCATTCCAATTTTGCTGTATAACTGGGCACAAATTACATAACCTTGGA
40792 IS [TG] TTTCCTAGGAGAGGCAATAAACTACAATAGGGAAAGTATGGGCTTTAGAGATTAGAGACC[TG]GCATTCCAATTTTGCTGTATAACTGGGCACAAATTACATAACCTTGGATAGAGGACAGCT
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40798 P G A ATGACGTGGCAGACGGTGAAAATATGCCAACAGY
40798 P A A CGCGCCGAGGAGTGAAAATATGCCAACAGTY
40798 T G A AAGAACTGTTGGCATATTTTCACCCCCAAAAAATCAGTTAAATATTGGGACACTAACCATCCAGGTCTA
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40807 P C S ATGACGTGGCAGACGAGGCAGGCTGGGY
40807 P T S CGCGCCGAGGAAGGCAGGCTGGGY
40807 T C S GTGGCCCAGCCTGCCTCACCCCGGCAGCAGCGGCAGC
40807 T T S GTGGCCCAGCCTGCCTTACCCCGGCAGCAGCGGCAGC
40807 IS [CT] ACCCTCAGCAAGGCCCATGGGTCCTCAGCTTTCCCAGGGTCCTGTGGCCCAGCCTGCCT[CT]ACCCCGGCAGCAGCGGCAGCTGCCCTTCCCTGTGTGTGGCCCCGGGCGCACCCTTGTCTT
40815 I S TCGCTGGCTCTGATTGCATCTCCAGCATC
40815 P C S ATGACGTGGCAGACGTTCTTTTCATTTACCTGCAAY
40815 P A S CGCGCCGAGGTTTCTTTTCATTTACCTGCAAGY
40815 T C S CATACTTGCAGGTAAATGAAAGAACATGCTGGAGATGCAATCAGAGCCAGCGAGG
40815 T A S CATACTTGCAGGTAAATGAAAGAAAATGCTGGAGATGCAATCAGAGCCAGCGAGG
40815 IS [CA] TAGACAGCAATTTCTTTGCAATAGTGGACATTTAACATACTTGCAGGTAAATGAAAGAA[CA]ATGCTGGAGATGCAATCAGAGCCAGCGAGGATGGAATCAAGGATCAAGGTGGGTGGGTT
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40817 I S GTATTTCAGGAACCAAGAATTGGACTCAGTCTTGGGCTAA
40817 P A S CGCGCCGAGGTGAAAATAGAAGCAGAGTTGGY
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40817 T A S TCTGCCAACTCTGCTTCTATTTTCATAGCCCAAGACTGAGTCCAATTCTTGGTTCCTGAAATACGT
40817 T G S TCTGCCAACTCTGCTTCTATTTTCGTAGCCCAAGACTGAGTCCAATTCTTGGTTCCTGAAATACGT
40817 IS [AG] CCAGGAAGACCTCAGGGGAACTTTTCTTTTTTAAATCTGCCAACTCTGCTTCTATTTTC[AG]TAGCCCAAGACTGAGTCCAATTCTTGGTTCCTGAAATACGTTTTCTCTTTAAATCTTGGA
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40827 P G S ATGACGTGGCAGACCAGAAATCCTGGTTTGGAGY
40827 P A S CGCGCCGAGGTAGAAATCCTGGTTTGGAGY
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40830 I A CTCCACGGTCACTTCTGCCTGCCTTCTT
40830 P G A ATGACGTGGCAGACGCATGTTCTTCTTAAAGTGGY
40830 P C A CGCGCCGAGGCCATGTTCTTCTTAAAGTGGY
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40830 IS [GC] GCTGACCTCCTGCCTTCTGGCTCAGATACTGTTCTCCACGGTCACTTCTGCCTGCCTCT[GC]CATGTTCTTCTTAAAGTGGCATGGTGAGTTTAAGTTCTCATTTCGTGCCAACTCAACACT
40833 I S CCAAGGCCAAGGTAAACTTGGAATCATAGGGATCAATTATTATCCTATTTTT
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40833 T T S TATAGATGGCATGAATAAGAATATTTCTAAAATAGGATAATAATTGATCGCTATGATTCCAAGTTTACCTTGGCCTTGGGC
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40835 P G S ATGACGTGGCAGACCACATACAAGTTAAGAAATACAGACY
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40835 T A S TTCTTGTCTGTATTTCTTAACTTGTATGTATGTATGTTTAAGGAAAAAAGGGAAGTCATCTTGTTAACACTTCTGCCTTA
40835 IS [GA] GGTGGCTTTATTTATTTACCACTCTAGTAATTTCTTGTCTGTATTTCTTAACTTGTATGT[GA]TGTATGTTTAAGGAAAAAAGGGAAGTCATCTTGTTAACACTTCTGCCTTATCATAGGAAT
40849 I A ATTGTCACGTGTGTGCTGGGCCATTGTATGAA
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40882 I A GGTGAAGGTTCCAATCAGCACTTTTGGAACCAATTACGT
40882 P G A ATGACGTGGCAGACGGTGGGAAGGGAGTGY
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40884 P G A ATGACGTGGCAGACGAGGTTTTCAGTGTCCCY
40884 P A A CGCGCCGAGGAAGGTTTTCAGTGTCCCY
40884 T G A CCCGGGGACACTGAAAACCTGCAGACTGCATATGGGCATTTGGGAGCTATCCAA
40884 T A A CCCGGGGACACTGAAAACCTTGCAGACTGCATATGGGCATTTGGGAGCTATCCAA
40884 IS [CA] CCTAGGACTGGTCTAGACAAGTGCCTTGGATAGCTCCCAAAATGCCCATATGCAGTCTGC[CA]AGGTTTTCAGTGTCCCCGGATAATAGGATTATGCTGATCAGAACTAATTACTGCACACC
40908 I A CTTCCTAGTCTCAACGTCTTGACTTTTTTTCCCTTCAGTACTGTA
40909 P T A CGCGCCGAGGTGTTGGGGCCACCY
40909 P C A ATGACGTGGCAGACCGTTGGGGCCACCY
40909 T T A CTAAGGTGGCCCCAACAACAGTACTGAAGGGAAAAAAAGTCAAGACGTTGAGACTAGGAAGGC

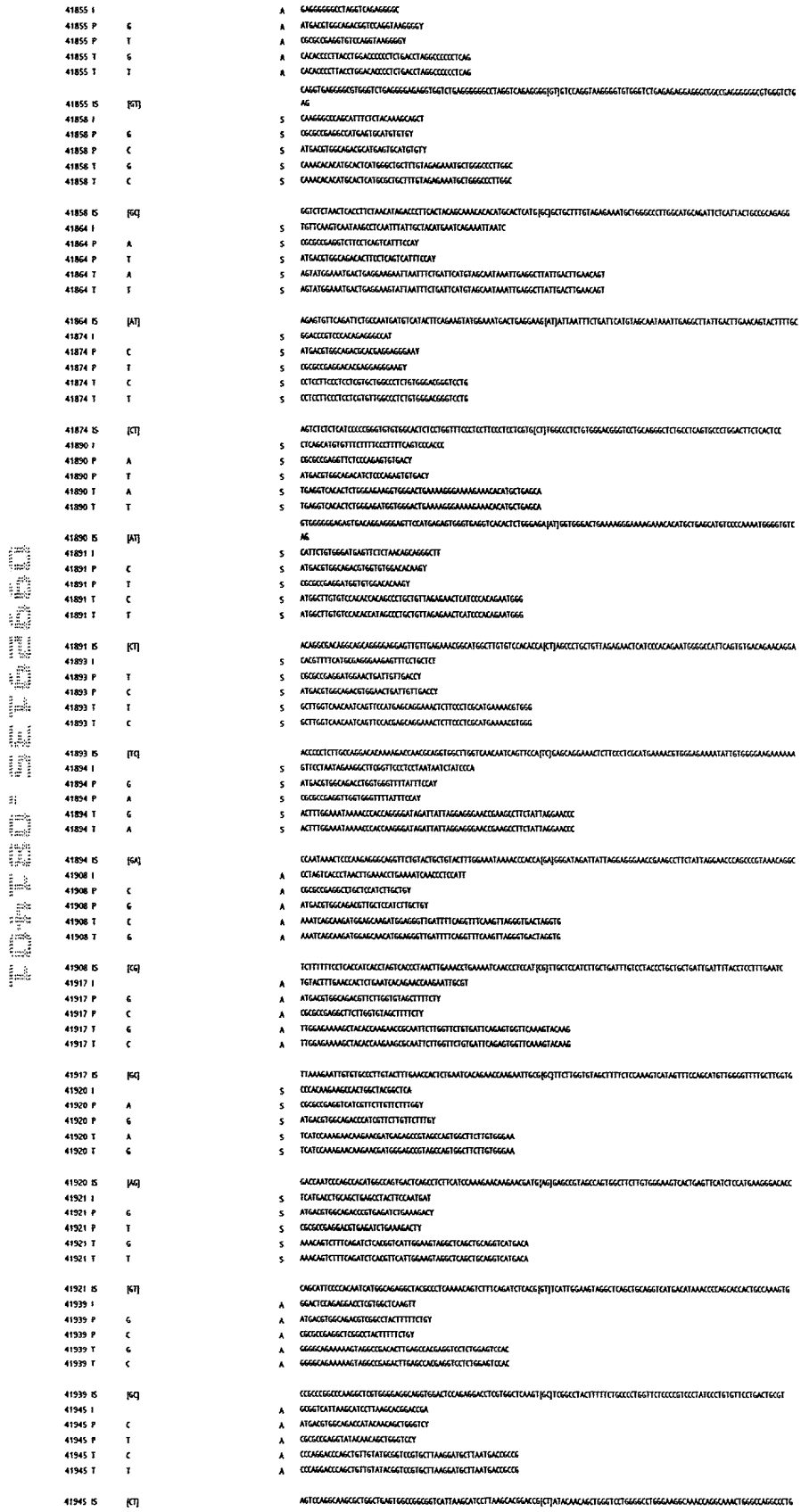
FIGURE 129F



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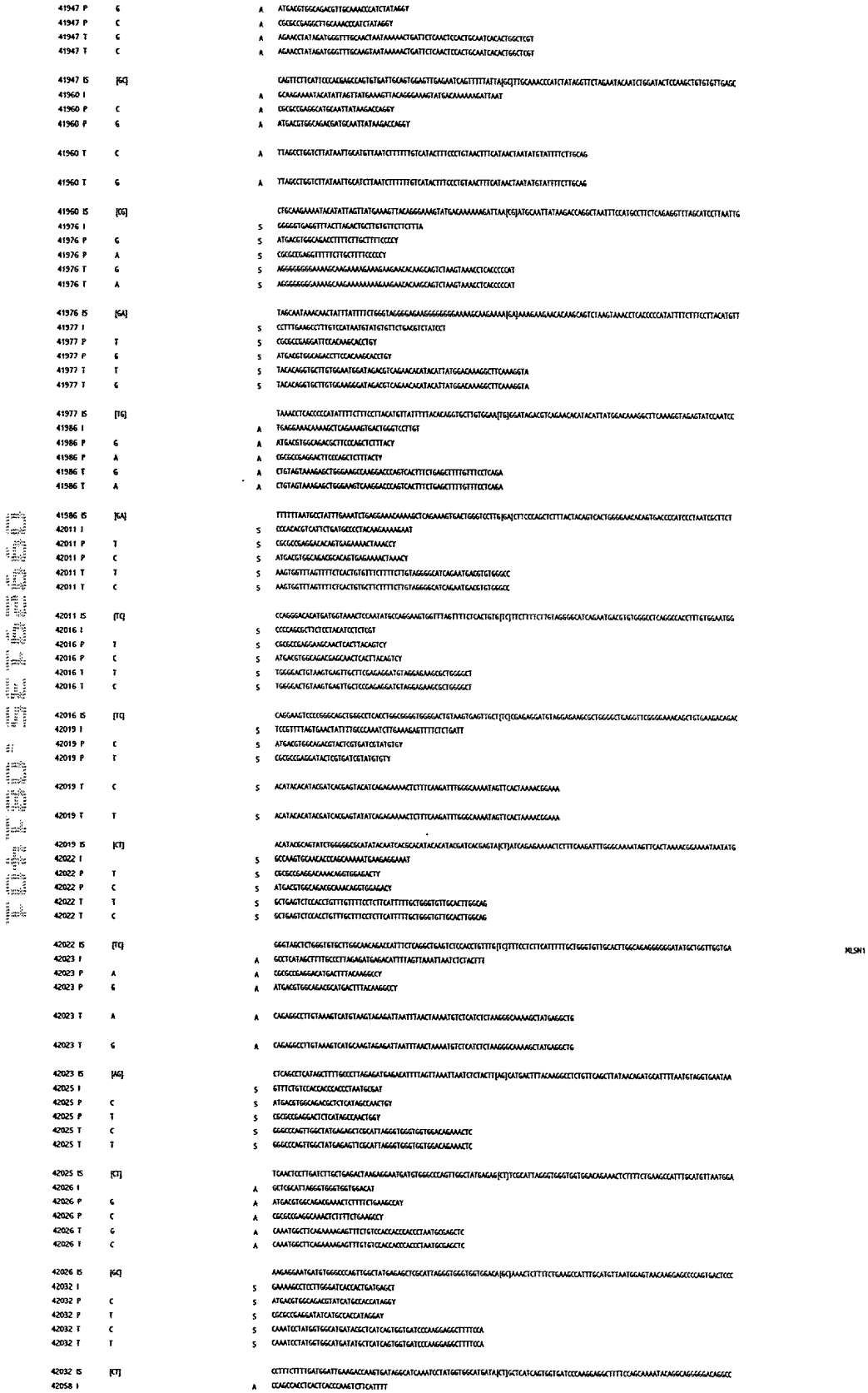


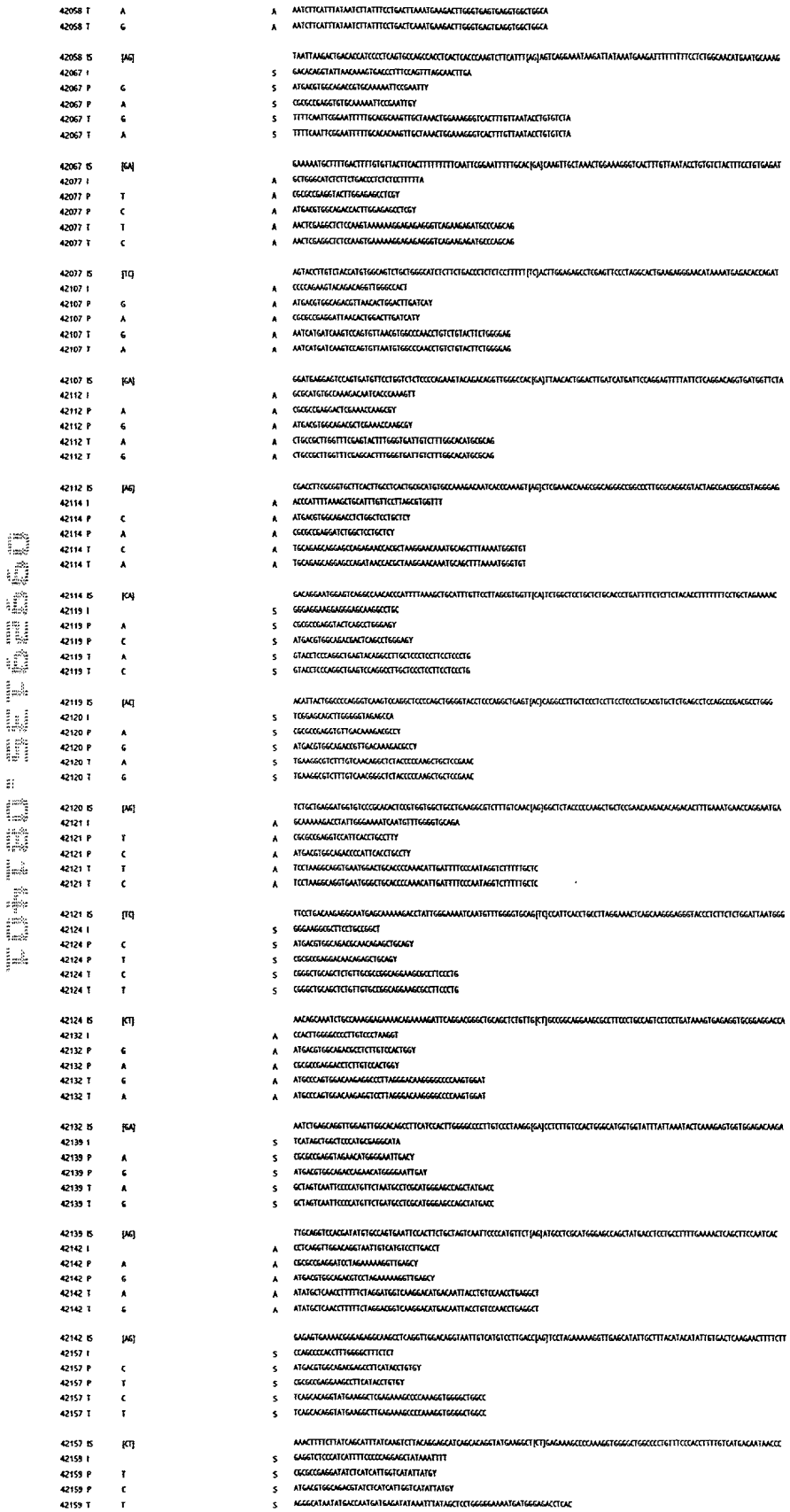
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FIGURE 129F


41947 P G A ATGACGTGGCAGACGTTGCAAACCCATCTATAGGY
41947 P C A CGCGCCGAGGCTTGCAAACCCATCTATAGGY
41947 T G A AGAACCTATAGATGGGTTTGCAACTAATAAAAACTGATTCTCAACTCCACTGCAATCACACTGGCTCGT
41947 T C A AGAACCTATAGATGGGTTTGCAAGTAATAAAAACTGATTCTCAACTCCACTGCAATCACACTGGCTCGT
41947 IS [GC] CAGTTCTTCATTCCCACGAGCCAGTGTGATTGCAGTGGAGTTGAGAATCAGTTTTTATTA[GC]TTGCAAACCCATCTATAGGTTCTAGAATACAATCTGGATACTCCAAGCTGTGTGTTGAGC
41960 I A GCAAGAAAATACATATTAGTTATGAAAGTTACAGGGAAAGTATGACAAAAAAGATTAAT
41960 P C A CGCGCCGAGGCATGCAATTATAAGACCAGGY
41960 P G A ATGACGTGGCAGACGATGCAATTATAAGACCAGGY
41960 T C A TTAGCCTGGTCTTATAATTGCATGTTAATCTTTTTTGTCATACTTTCCCTGTAACTTTCATAACTAATATGTATTTTCTTGCAG
41960 T G A TTAGCCTGGTCTTATAATTGCATCTTAATCTTTTTTGTCATACTTTCCCTGTAACTTTCATAACTAATATGTATTTTCTTGCAG
41960 IS [GG] CTGCAAGAAAATACATATTAGTTATGAAAGTTACAGGGAAAGTATGACAAAAAAGATTAA[GG]ATGCAATTATAAGACCAGGCTAATTTCCATGCCTTCTCAGAGGTTTAGCATCCTTAATTG
41976 I S GGGGGTGAGGTTTACTTAGACTGCTTGTGTTCTTCTTTA
41976 P G S ATGACGTGGCAGACCTTTTCTTGCTTTTCCCCY
41976 P A S CGCGCCGAGGTTTTTCTTGCTTTTCCCCY
41976 T G S AGGGGGGGGAAAAGCAAGAAAAGAAAGAAGACACAAGCAGTCTAAGTAAACCTCACCCCCAT
41976 T A S AGGGGGGGGAAAAGCAAGAAAAAAAAGAAGACACAAGCAGTCTAAGTAAACCTCACCCCCAT
41976 IS [GA] TAGCAATAAACAACTATTTATTTTCTGGGTAGGGGAGAAGGGGGGGGAAAAGCAAGAAAA[GA]AAGAAGAAGACACAAGCAGTCTAAGTAAACCTCACCCCCATATTTTCTTTCCTTACATGTT
41977 I S CCTTTGAAGCCTTTGTCCATAATGTATGTGTTCTGACGTCTATCCT
41977 P T S CGCGCCGAGGATTCCACAAGCACCTGY
41977 P G S ATGACGTGGCAGACCTTCCACAAGCACCTGY
41977 T T S TACACAGGTGCTTGTGGAATGGATAGACGTCAGAACACATACATTATGGACAAAGGCTTCAAAGGTA
41977 T G S TACACAGGTGCTTGTGCAAGGGATAGACGTCAGAACACATACATTATGGACAAAGGCTTCAAAGGTA
41977 IS [TG] TAAACCTCACCCCCATATTTTCTTTCCTTACATGTTATTTTTACACAGGTGCTTGTGGAA[TG]GGATAGACGTCAGAACACATACATTATGGACAAAGGCTTCAAAGGTAGAGTATCCAATCC
41986 I A TGAGGAAACAAAGCTCAGAAAGTGACTGGGTCCTTGT
41986 P G A ATGACGTGGCAGACGCTTCCCAGCTCTTTACY
41986 P A A CGCGCCGAGGACTTCCCAGCTCTTTACY
41986 T G A CTGTAGTAAAGAGCTGGGAAGCCAAGGACCCAGTCACTTTCTGAGCTTTTGTTTCCTCAGA
41986 T A A CTGTAGTAAAGAGCTGGGAAGTCAAGGACCCAGTCACTTTCTGAGCTTTTGTTTCCTCAGA
41986 IS [GA] TTTTTTAATGCCTATTTGAAATCTGAGGAAACAAAAGCTCAGAAAGTGACTGGGTCCTTG[GA]CTTCCCAGCTCTTTACTACAGTCACTGGGGAAACACAGTGACCCCATCCCTAATCGCTTCT
42011 I S CCCACACGTCATTCTGATGCCCCTACAAGAAAAGAAT
42011 P T S CGCGCCGAGGAACACAGTGAGAAAACTAAACCY
42011 P C S ATGACGTGGCAGACGCACAGTGAGAAAACTAAACY
42011 T T S AAGTGGTTTAGTTTTCTCACTGTGTTCTTTTCTTGTAGGGGCATCAGAATGACGTGTGGGCC
42011 T C S AAGTGGTTTAGTTTTCTCACTGTGCTTCTTTTCTTGTAGGGGCATCAGAATGACGTGTGGGCC
42011 IS [TC] CCAGGGACACATGATGGTAAACTCCAATATGCCAGGAAGTGGTTTAGTTTTCTCACTGT6[TC]TTCTTTCTTGTAGGGGCATCAGAATGACGTGTGGGCCTCAGGCCACCTTTGTGGAATGG
42016 I S CCCCAGCGCTYCTCCTACATCCCTCTGT
42016 P T S CGCGCCGAGGAAGCAACTCACTTACAGTCY
42016 P C S ATGACGTGGCAGACGAGCAACTCACTTACAGTCY
42016 T T S TGGGGACTGTAAGTGAGTTGCTTCGAGAGGATGTAGGAGAAGCGCTGGGGCT
42016 T C S TGGGGACTGTAAGTGAGTTGCTCCCAGAGGATGTAGGAGAAGCGCTGGGGCT
42016 IS [TC] CAGGAAGTCCCCGGGCAGCTGGGCCTCACCTGGCGGGGTGGGGACTGTAAGTGAGTTGCT[TC]CGAGAGGATGTAGGAGAAGCGCTGGGGCTGAGGTTCGGGGAAACAGCTGTGAAGACAGAC
42019 I S TCCGTTTTAGTGAACTATTTGCCCAAATCTTGAAAGAGTTTTCTCTGATT
42019 P C S ATGACGTGGCAGACGTACTCGTGATCGTATGTGY
42019 P T S CGCGCCGAGGATACTCGTGATCGTATGTGY
42019 T C S ACATACACATACGATCACGAGTACATCAGAGAAAACTCTTTCAAGATTTGGGCAAAATAGTTCACTAAAACGGAAA
42019 T T S ACATACACATACGATCACGAGTATATCAGAGAAAACTCTTTCAAGATTTGGGCAAAATAGTTCACTAAAACGGAAA
42019 IS [CT] ACATACGCAGTATCTGGGGGGCGCATATACAATCACGCACATACACATACGATCACGAGTA[CT]ATCAGAGAAAACTCTTTCAAGATTTGGGCAAAATAGTTCACTAAAACGGAAAATAATATG
42022 I S GCCAAGTGCAACACCCAGCAAAAATCAAGAGGAAAT
42022 P T S CGCGCCGAGGACAAACAGGTGGAGACTY
42022 P C S ATGACGTGGCAGACGCAAACAGGTGGAGACY
42022 T T S GCTGAGTCTCCACCTGTTTGTTTTCCTCTTCATTTTTGCTGGGTGTTGCACTTGGCAG
42022 T C S GCTGAGTCTCCACCTGTTTGCTTTCCTCTTCATTTTTGCTGGGTGTTGCACTTGGCAG
42022 IS [TC] GGGTAGCTCTGGGTGTGCTTGGCAACAGACATTTCTCAGGCTGAGTCTCCACCTGTTTG[TC]TTTCCTCTTCATTTTTGCTGGGTGTTGCACTTGGCAG
42023 I A GCCTCATAGCTTTTGCCCTTAGAGATGAGACATTTTAGTTAAATTAATCTCTACTTT
42023 P A A CGCGCCGAGGACATGACTTTACAAGGCCY
42023 P G A ATGACGTGGCAGACGCATGACTTTACAAGGCCY
42023 T A A CAGAGGCCTTGTAAAGTCATGTAAGTAGAGATTAATTTAACTAAAATGTCTCATCTCTAAGGGCAAAGCTATGAGGCTG
42023 T G A CAGAGGCCTTGTAAAGTCATGCAAGTAGAGATTAATTTAACTAAAATGTCTCATCTCTAAGGGCAAAGCTATGAGGCTG
42023 IS [AG] CTCAGCCTCATAGCTTTTGCCCTTAGAGATGAGACATTTTAGTTAAATTAATCTCTACTT[AG]CATGACTTTACAAGGCCTCTGTTCAGCTTATAACAGATGCATTTTAATGTAGGTGAATAA
42025 I S GTTTCTGTCCACCACCCACCCTAATGCGAT
42025 P C S ATGACGTGGCAGACGCTCTCATAGCCAACTGY
42025 P T S CGCGCCGAGGAACTCTCATAGCCAACTGGY
42025 T C S GGGCCCAGTTGGCTATGAGAGCTCGCATTAGGGTGGGTGGTGGACAGAAACTC
42025 T T S GGGCCCAGTTGGCTATGAGAGTTCGCATTAGGGTGGGTGGTGGACAGAAACTC
42025 IS [CT] TCAACTCCTTGATCTTGCTGAGACTAAGAGGAATGATGTGGGCCCAGTTGGCTATGAGAG[CT]TCGCATTAGGGTGGGTGGTGGACAGAAACTCTTTTCTGAAGCCATTTGCATGTTAATGGA
42026 I A GCTCGCATTAGGGTGGGTGGTGGACAT
42026 P G A ATGACGTGGCAGACGAAACTCTTTTCTGAAGCCAY
42026 P C A CGCGCCGAGGCAAACTCTTTTCTGAAGCCY
42026 T G A CAAATGGCTTCAGAAAAGAGTTTCTGTCCACCACCCACCCTAATGCGAGCTC
42026 T C A CAAATGGCTTCAGAAAAGAGTTTGTGTCCACCACCCACCCTAATGCGAGCTC
42026 IS [GC] AAGAGGAATGATGTGGGGCCAGTTGGCTATGAGAGCTCGCATTAGGGTGGGTGGTGGACA[GC]AAACTCTTTTCTGAAGCCATTTGCATGTTAATGGAGTAACAAGGAGCCCCAGTGACTCCC
42032 I S GAAAAGCCTCCTTGGGATCACCACTGATGAGCT
42032 P C S ATGACGTGGCAGACGTATCATGCCACCATAGGY
42032 P T S CGCGCCGAGGATATCATGCCACCATAGGAY
42032 T C S CAAATCCTATGGTGGCATGATACGCTCATCAGTGGTGATCCCAAGGAGGCTTTTCCA
42032 T T S CAAATCCTATGGTGGCATGATATGCTCATCAGTGGTGATCCCAAGGAGGCTTTTCCA
42032 IS [CT] CCTTTCTTTTGATGGATTGAAGACCAAGTGATAGGCATCAAATCCTATGGTGGCATGATA[CT]GCTCATCAGTGGTGATCCCAAGGAGGCTTTTCCAGCAAAATACAGGCAGGGGGACAGGCC
42058 I A CCAGCCACCTCACTCACCCAAGTCTTCATTTT
42058 P A A CGCGCCGAGGAAGTCAGGAAATAAGATTATAAATGAAY
42058 P G A ATGACGTGGCAGACGAGTCAGGAAATAAGATTATAAATGAAY



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FIGURE 129F

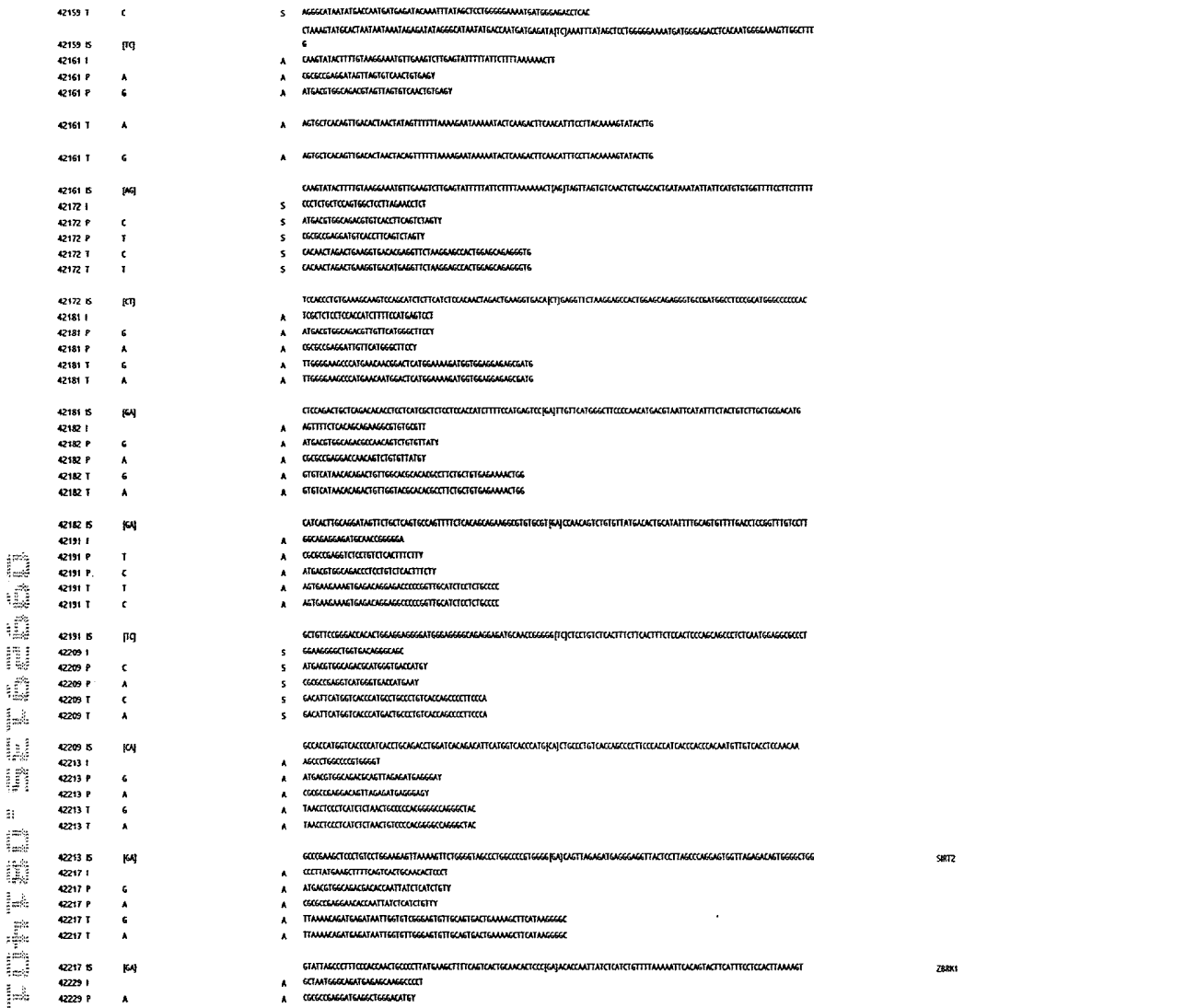
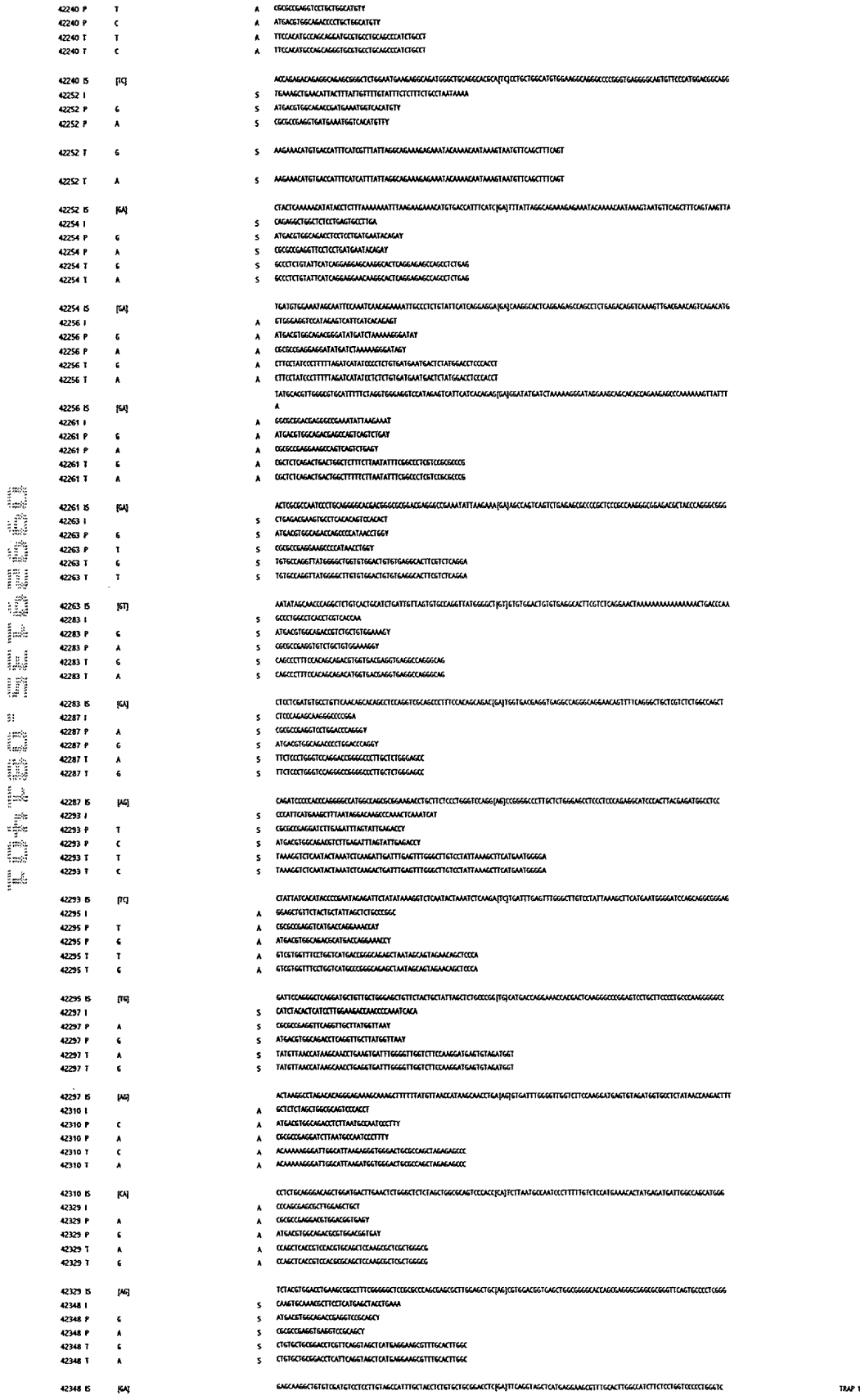


FIGURE 129F


42240 P T A CGCGCCGAGGTCCTGCTGGCATGTY
42240 P C A ATGACGTGGCAGACCCCTGCTGGCATGTY
42240 T T A TTCCACATGCCAGCAGGATGCGTGCCTGCAGCCCATCTGCCT
42240 T C A TTCCACATGCCAGCAGGGTGCGTGCCTGCAGCCCATCTGCCT
42240 IS [TC] ACCAGAGACAGAGGCAGAGCGGGCTCTGGAATGAAGAGGCAGATGGGCTGCAGGCACGCA[TC]CCTGCTGGCATGTGGAAGGCAGGGCCCCGGGTGAGGGGCAGTGTTCCCATGGACGGCAGG
42252 I S TGAAAGCTGAACATTACTTTATTGTTTTGTATTTCTCTTTCTGCCTAATAAAA
42252 P G S ATGACGTGGCAGACCGATGAAATGGTCACATGTY
42252 P A S CGCGCCGAGGTGATGAAATGGTCACATGTY
42252 T G S AAGAAACATGTGACCATTTCATCGTTTATTAGGCAGAAAGAGAAATACAAAACAATAAAGTAATGTTCAGCTTTCAGT
42252 T A S AAGAAACATGTGACCATTTCATCATTTATTAGGCAGAAAGAGAAATACAAAACAATAAAGTAATGTTCAGCTTTCAGT
42252 IS [GA] CTACTCAAAAAGATATAACCTCTTTAAAAAAATTTAAGAAGAAACATGTGACCATTTCATC[GA]TTTATTAGGCAGAAAGAGAAATACAAAACAATAAAGTAATGTTCAGCTTTCAGTAAGTTA
42254 I S CAGAGGCTGGCTCTCCTGAGTGCCTTGA
42254 P G S ATGACGTGGCAGACCTCCTCCTGATGAATACAGAY
42254 P A S CGCGCCGAGGTTCCTCCTGATGAATACAGAY
42254 T G S GCCCTCTGTATTCATCAGGAGGAGCAAGGCACTCAGGAGAGCCAGCCTCTGAG
42254 T A S GCCCTCTGTATTCATCAGGAGGAACAAGGCACTCAGGAGAGCCAGCCTCTGAG
42254 IS [GA] TGATGTGGAAATAGCAATTCCAAATCAACAGAAAATTGCCCTCTGTATTCATCAGGAGGA[GA]CAAGGCACTCAGGAGAGCCAGCCTCTGAGACAGGTCAAAGTTGACGAACAGTCAGACATG
42256 I A GTGGGAGGTCCATAGAGTCATTCATCACACAGAGT
42256 P G A ATGACGTGGCAGACGGGATATGATCTAAAAAGGGATAY
42256 P A A CGCGCCGAGGAGGATATGATCTAAAAAGGGATAGY
42256 T G A CTTCCTATCCCTTTTTAGATCATATCCCCTCTGTGATGAATGACTCTATGGACCTCCCACCT
42256 T A A CTTCCTATCCCTTTTTAGATCATATCCTCTCTGTGATGAATGACTCTATGGACCTCCCACCT
42256 IS [GA] TATGCACGTTGGGGCGTGCATTTTTCTAGGTGGGCAGGTCCATAGAGTCATTCATCACAGAG[GA]GGATATGATCTAAAAAGGGATAGGAAGCAGCACACCAGAAGAGCCCAAAAAGTTATTT
A
42261 I A GGCGCGGACGAGGGCCGAAATATTAAGAAAT
42261 P G A ATGACGTGGCAGACGAGCCAGTCAGTCTGAY
42261 P A A CGCGCCGAGGAAGCCAGTCAGTCTGAGY
42261 T G A CGCTCTCAGACTGACTGGCTCTTTCTTAATATTTCGGCCCTCGTCCGCGCCCG
42261 T A A CGCTCTCAGACTGACTGGCTTTTTCTTAATATTTCGGCCCTCGTCCGCGCCCG
42261 IS [GA] ACTCGCGCCAATCCCTGCAGGGGCAGACGAGGGCGCGGAACGAGGCCGAAATATTAAGAAA[GA]AGCCAGTCAGTCTGAGAGACGCCCCGCTCCGCCAAGGGCGGAGACGCTACCCAGGGCGGG
42263 I S CTGAGACGAAGTGCCTCACACAGTCCACACT
42263 P G S ATGACGTGGCAGACCAGCCCCATAACCTGGY
42263 P T S CGCGCCGAGGAAGCCCCATAACCTGGY
42263 T G S TGTGCCAGGTTATGGGGCTGGTGTGGACTGTGTGAGGCACTTCGTCTCAGGA
42263 T T S TGTGCCAGGTTATGGGGCTTGTGTGGACTGTGTGAGGCACTTCGTCTCAGGA
42263 IS [GT] AATATAGCAACCCAGGCTCTGTCACTGCATCTGATTGTTAGTGTGCCAGGTTATGGGGCT[GT]GTGTGGACTGTGTGAGGCACTTCGTCTCAGGAACTAAAAAAAAAAAAAAAACTGACCCAA
42283 I S GCCCTGGCCTCACCTCGTCACCAA
42283 P G S ATGACGTGGCAGACCGTCTGCTGTGGAAAGY
42283 P A S CGCGCCGAGGTGTCTGCTGTGGAAAGGY
42283 T G S CAGCCCTTTCCACAGCAGACGTGGTGACGAGGTGAGGCCAGGGCAG
42283 T A S CAGCCCTTTCCACAGCAGACATGGTGACGAGGTGAGGCCAGGGCAG
42283 IS [GA] CTCCTCGATGTGCCTGTTCAACAGCACAGCCTCCAGGTCGCAGCCCTTTCCACAGCAGAC[GA]TGGTGACGAGGTGAGGCCAGGGCAGGAACAGTTTCAGGGCTGCTCGTCTCTGGCCAGCT
42287 I S CTCCCAGAGCAAGGGCCCCGGA
42287 P A S CGCGCCGAGGTCCTGGACCCAGGGY
42287 P G S ATGACGTGGCAGACCCCTGGACCCAGGY
42287 T A S TTCTCCCTGGGTCCAGGACCGGGGCCCTTGCTCTGGGAGCC
42287 T G S TTCTCCCTGGGTCCAGGGCCGGGGCCCTTGCTCTGGGAGCC
42287 IS [AG] CAGATCCCCCACCCAGGGGCCATGGCCAGGCGCGGAAGACCTGCTTCTCCCTGGGTCCAGG[AG]CCGGGGCCCTTGCTCTGGGAGCCTCCCTCCCAGAGGCATCCCACTTACGAGATGGCCTCC
42293 I S CCCATTCATGAAGCTTTAATAGGACAAGCCCAAACTCAAATCAT
42293 P T S CGCGCCGAGGATCTTGAGATTTAGTATTGAGACCY
42293 P C S ATGACGTGGCAGAGTCTTGAGATTTAGTATTGAGACCY
42293 T T S TAAAGCTCTCAATACTAAATCTCAAGATTGATTTGAGTTTGGGCTTGTCCTATTAAAGCTTCATGAATGGGGA
42293 T C S TAAAGCTCTCAATACTAAATCTCAAGACTGATTTGAGTTTGGGCTTGTCCTATTAAAGCTTCATGAATGGGGA
42293 IS [TC] CTATTATCACATACCCGAATAGAGATTCTATATAAAGGTCTCAATACTAAATCTCAAGA[TC]TGATTTGAGTTTGGGCTTGTCCTATTAAAGCTTCATGAATGGGGATCCAGCAGGCGGGGAG
42295 I A GGAGCTGTTCTACTGCTATTAGCTCTGCCCGGC
42295 P T A CGCGCCGAGGTCATGACCAGGAAACCAY
42295 P G A ATGACGTGGCAGACGCATGACCAGGAAACCY
42295 T T A GTCGTGGTTTCCTGGTCATGACCGGGCAGAGCTAATAGCAGTAGAACAGCTCCCA
42295 T G A GTCGTGGTTTCCTGGTCATGCCCGGGCAGAGCTAATAGCAGTAGAACAGCTCCCA
42295 IS [TG] GATTCCAGGGCTCAGGATGCTGTTGCTGGGAGCTGTTCTACTGCTATTAGCTCTGCCCGG[TG]CATGACCAGGAAACCACGACTCAAGGGCCCGGAGTCCTGCTTCCCCTGCCCAAGGGGCC
42297 I S CATCTACACTCATCCTTGGAAGACCAACCCCAAATCACA
42297 P A S CGCGCCGAGGTTCAGGTTGCTTATGGTTAAY
42297 P G S ATGACGTGGCAGACCTCAGGTTGCTTATGGTTAAY
42297 T A S TATGTTAACCATAAGCAACCTGAAGTGATTTGGGGTTGGTCTTCCAAGGATGAGTGTAGATGGT
42297 T G S TATGTTAACCATAAGCAACCTGAAGTGATTTGGGGTTGGTCTTCCAAGGATGAGTGTAGATGGT
42297 IS [AG] ACTAAGGCCTAGACAGAGGAGAAAGCAAAGCTTTTTTATGTTAACCATAAGCAACCTGA[AG]GTGATTTGGGGTTGGTCTTCCAAGGATGAGTGTAGATGGTGCCTCTATAACCAAGACTTT
42310 I A GCTCTCTAGCTGGCGCAGTCCCACCT
42310 P C A ATGACGTGGCAGACCTCTTAATGCCAATCCCTTY
42310 P A A CGCGCCGAGGATCTTAATGCCAATCCCTTTY
42310 T C A ACAAAAAGGGATTGGCATTAAGAGGTGGGACTGCGCCAGCTAGAGAGCCC
42310 T A A ACAAAAAGGGATTGGCATTAAGATGGTGGGACTGCGCCAGCTAGAGAGCCC
42310 IS [CA] CCTCTGCAGGGACAGCTGGATGACTTGAACTCTGGGCTCTCTAGCTGGCGCAGTCCCACC[CA]TCTTAATGCCAATCCCTTTTTGTCTCCATGAAACACTATGAGATGATTGGCCAGCATGGG
42329 I A CCCAGCGAGCGCTTGGAGCTGCT
42329 P A A CGCGCCGAGGACGTGGACGGTGAGY
42329 P G A ATGACGTGGCAGACGCGTGGACGGTGAY
42329 T A A CCAGCTCACCGTCCACGTGCAGCTCCAAGCGCTCGCTGGGCG
42329 T G A CCAGCTCACCGTCCACGGCAGCTCCAAGCGCTCGCTGGGCG
42329 IS [AG] TCTACGTGGACCTGAAGCCGCCTTTCGGGGGCTCCGCGCCCAGCGAGCGCTTGGAGCTGC[AG]CGTGGACGGTCAGCTGGCGGGGGCACCAGCKAGGGCGGGCGCGGGTTCAGTGCCCCTCGGG
42348 I S CAAGTGCAAAGCGTTCCTCATGAGCTACCTGAAA
42348 P G S ATGACGTGGCAGACCGAGGTCCGCAGCY
42348 P A S CGCGCCGAGGTGAGGTCCGCAGCY
42348 T G S CTGTGCTGCGGACCTCGTTCAGGTAGCTCATGAGGAAGCGTTTGCACTTGGC
42348 T A S CTGTGCTGCGGACCTCATTCAGGTAGCTCATGAGGAAGCGTTTGCACTTGGC
42348 IS [GA] GAGCAAGCCTGTGTCCATGTCCTCCTTGTAGCCATTTGCTACCTCTGTGCTGCGGACCTC[GA]TTCAGGTAGCTCATGAGGAAGCGTTTGCACTTGGCCATCTTCCTCCTGGTCCCCCTGGGTC
TRAP 1

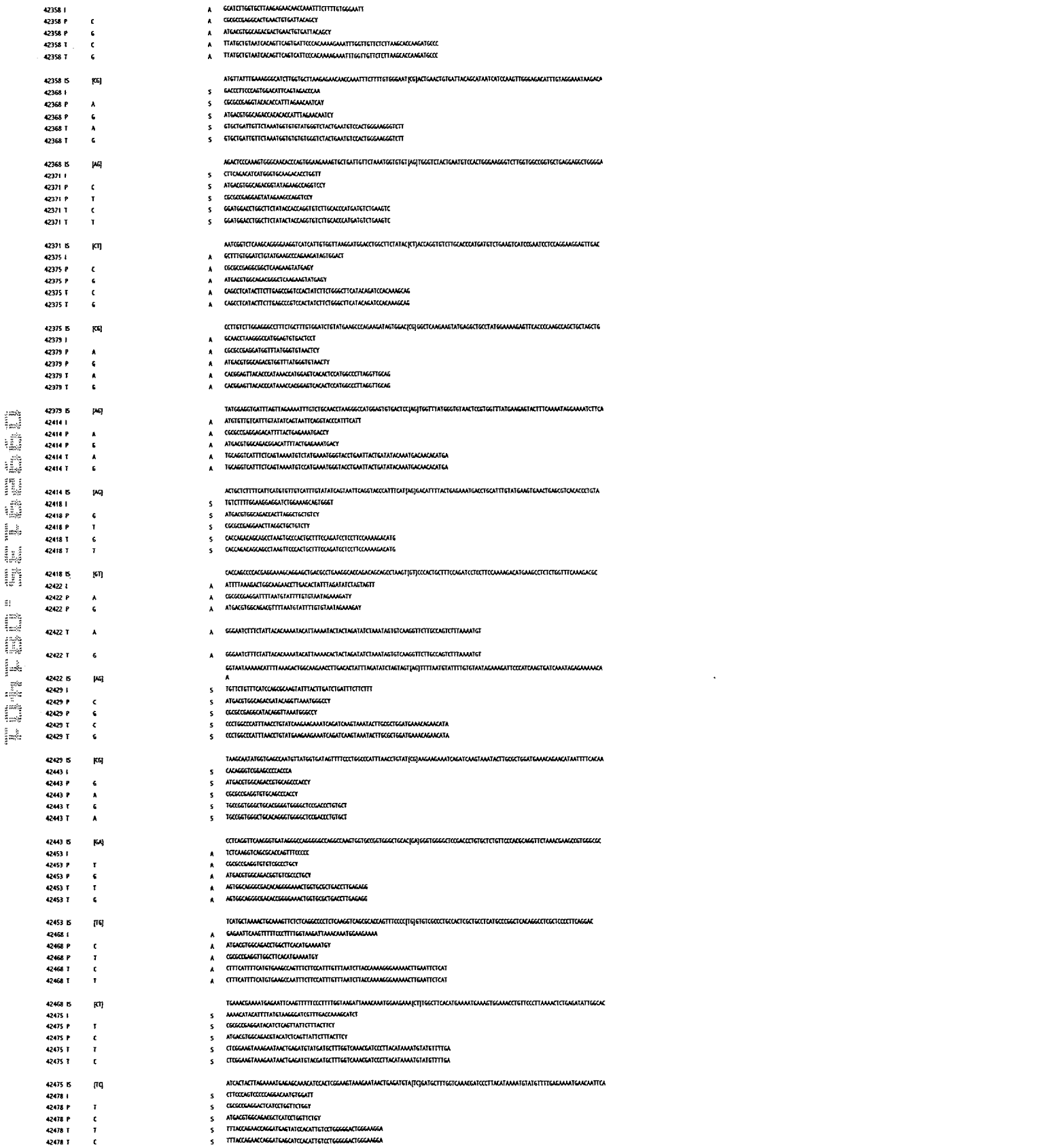
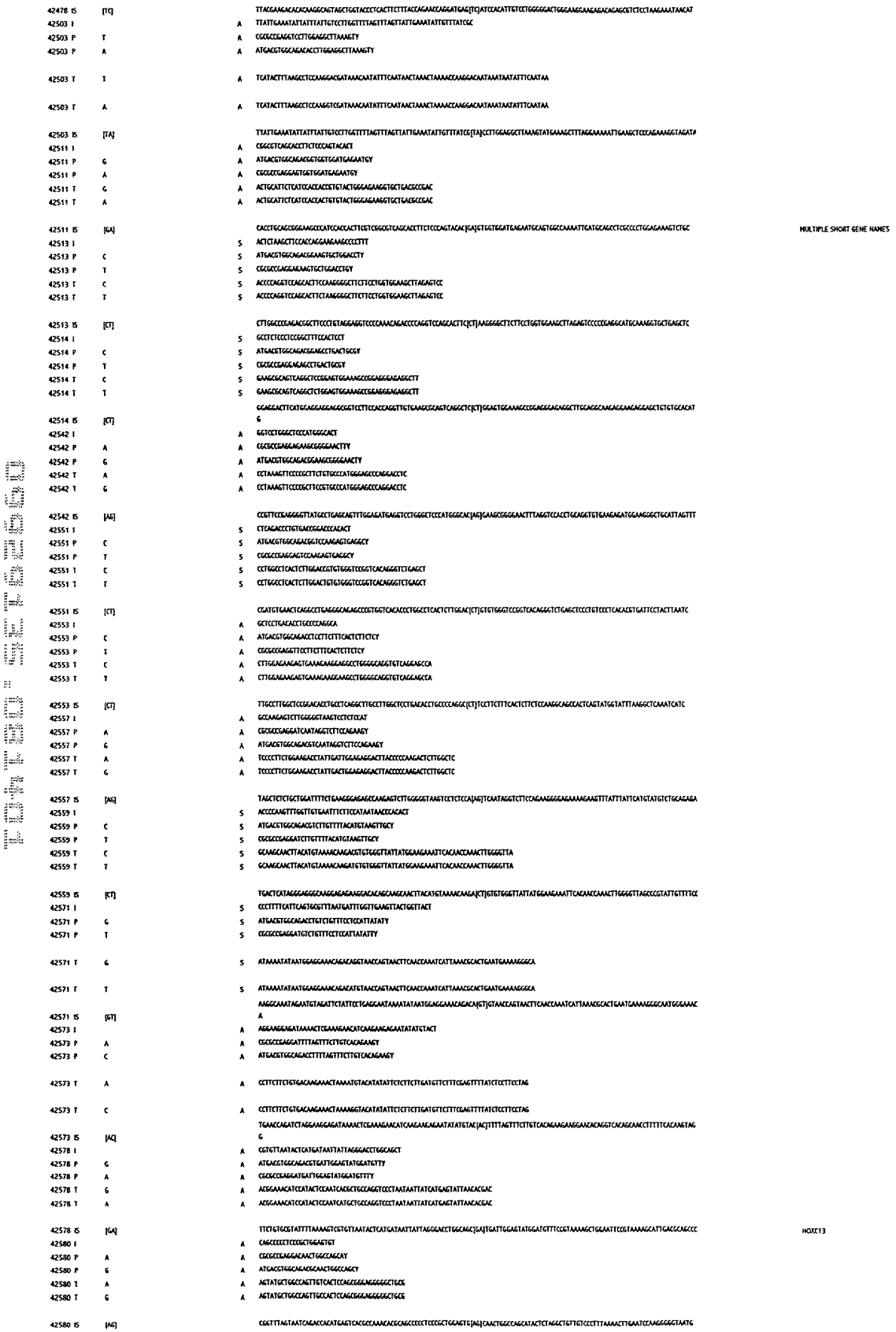

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42358 P C A CGCGCCGAGGCACTGAACTGTGATTACAGCY
42358 P G A ATGACGTGGCAGACGACTGAACTGTGATTACAGCY
42358 T C A TTATGCTGTAATCACAGTTCAGTGATTCCCACAAAAGAAATTTGGTTGTTCTCTTAAGCACCAAGATGCCC
42358 T G A TTATGCTGTAATCACAGTTCAGTCATTCCCACAAAAGAAATTTGGTTGTTCTCTTAAGCACCAAGATGCCC
42358 IS [CG] ATGTTATTTGAAAGGGCATCTTGGTGCTTAAGAGAACAACCAAATTTCTTTTGTGGGAAT[CG]ACTGAACTGTGATTACAGCATAATCATCCAAGTTGGGAGACATTTGTAGGAAATAAGACA
42368 I S GACCETTCCCAGTGGACATTCAGTAGACCCAA
42368 P A S CGCGCCGAGGTACACACCATTTAGAACAATCAY
42368 P G S ATGACGTGGCAGACACACACCATTTAGAACAATCY
42368 T A S GTGCTGATTGTTCTAAATGGTGTGTATGGGTCTACTGAATGTCCACTGGGAAGGGTCTT
42368 T G S GTGCTGATTGTTCTAAATGGTGTGTGGGTCTACTGAATGTCCACTGGGAAGGGTCTT
42368 IS [AG] AGACTCCCAAAGTGGGCAACACCCAGTGGAAGAAAGTGCTGATTGTTCTAAATGGTGTGT[AG]TGGGTCTACTGAATGTCCACTGGGAAGGGTCTTGGTGGCCGGTGCTGAGGAGGCTGGGGA
42371 I S CTTCAGACATCATGGGTGCAAGACACCTGGTT
42371 P C S ATGACGTGGCAGACGGTATAGAAGCCAGGTCCY
42371 P T S CGCGCCGAGGAGTATAGAAGCCAGGTCCY
42371 T C S GGATGGACCTGGCTTCTATACCACCAGGTGTCTTGCACCCATGATGTCTGAAGTC
42371 T T S GGATGGACCTGGCTTCTATACTACCAGGTGTCTTGCACCCATGATGTCTGAAGTC
42371 IS [CT] AATCGGTCTCAAGCAGGGGAGGAGGTCATCATTGTGGTTAAGGATGGACCTGGCTTCTATAC[CT]ACCAGGTGTCTTGCACCCATGATGTCTGAAGTCATCCGAATCCTCCAGGAAGGAGTTGAC
42375 I A GCTTTGTGGATCTGTATGAAGCCCAGAAGATAGTGGACT
42375 P C A CGCGCCGAGGCGGCTCAAGAAGTATGAGY
42375 P G A ATGACGTGGCAGACGGGCTCAAGAAGTATGAGY
42375 T C A CAGCCTCATACTTCTTGAGCCGGTCCACTATCTTCTGGGCTTCATACAGATCCACAAAGCAG
42375 T G A CAGCCTCATACTTCTTGAGCCCGTCCACTATCTTCTGGGCTTCATACAGATCCACAAAGCAG
42375 IS [CG] CCTTGTCTTGGCAGGGCCTTTCTCGCTTTGTGGATCTGTATGAAGCCCAGAAGATAGTGGAC[CG]GGCTCAAGAAGTATGAGGCTGCCTATGGAAAAGAGTTCACCCCAAGCCAGCTGCTAGCTG
42379 I A GCAACCTAAGGGCCATGGAGTGTGACTCCT
42379 P A A CGCGCCGAGGATGGTTTATGGGTGTAACTCY
42379 P G A ATGACGTGGCAGACGTGGTTTATGGGTGTAACTY
42379 T A A CAGGGAGTTACACCCATAAACCATGGAGTCACACTCCATGGCCCTTAGGTTGCAG
42379 T G A CAGGGAGTTACACCCATAAACCAGGAGTCACACTCCATGGCCCTTAGGTTGCAG
42379 IS [AG] TATGGAAGGTGATTTAGTTAGAAAATTTGTCTGCAACCTAAGGGCCATGGAGTGTGACTCC[AG]TGGTTTATGGGGTGTAACTCCGTGGTTTATGAAGAGTACTTTCAAAATAGGAAAATCTTCA
42414 I A ATGTGTTGTCATTTGTATATCAGTAATTCAGGTACCCATTTCATT
42414 P A A CGCGCCGAGGAGACATTTTACTGAGAAATGACCY
42414 P G A ATGACGTGGCAGACGGACATTTTACTGAGAAATGACY
42414 T A A TGCAGGTCATTTCTCAGTAAAATGTCTATGAAATGGGTACCTGAATTACTGATATACAAATGACAACACATGA
42414 T G A TGCAGGTCATTTCTCAGTAAAATGTCCATGAAATGGGTACCTGAATTACTGATATACAAATGACAACACATGA
42414 IS [AG] ACTGCTCTTTTCATTCATGTGTTGTCATTTGTATATCAGTAATTCAGGTACCCATTTCAT[AG]GACATTTTACTGAGAAATGACCTGCATTTGTATGAAGTGAACTGAGCGTCACACCCTGTA
42418 I S TGTCTTTTGGAAGGAGGATCTGGAAAGCAGTGGGT
42418 P G S ATGACGTGGCAGACACACTTAGGCTGCTGTCY
42418 P T S CGCGCCGAGGAACTTAGGCTGCTGTCTY
42418 T G S CACCAGACAGCAGCCTAAGTGCCCACTGCTTTCCAGATCCTCCTTCCAAAAGACATG
42418 T T S CACCAGACAGCAGCCTAAGTTCCCACTGCTTTCCAGATCCTCCTTCCAAAAGACATG
42418 IS [GT] CACCAGCCCCACGAGGAAAGCAGGAGCTGACGCCTGAAGGCACCAGACAGCAGCCTAAGT[GT]CCCACTGCTTTCCAGATCCTCCTTCCAAAAGACATGAAGCCTCTCTTGGTTTCAAAGACGC
42422 I A ATTTTAAAGACTGGCAAGAACCTTGACACTATTTAGATATCTAGTAGTT
42422 P A A CGCGCCGAGGATTTTAATGTATTTTGTGTAATAGAAAGATY
42422 P G A ATGACGTGGCAGACGTTTTAATGTATTTTGTGTAATAGAAAGAT
42422 T A A GGGAATCTTTCTATTACACAAAATACATTAAAATACTACTAGATATCTAAATAGTGTCAAGGTTCTTGCCAGTCTTTAAAATGT
42422 T G A GGGAATCTTTCTATTACACAAAATACATTAAAACACTACTAGATATCTAAATAGTGTCAAGGTTCTTGCCAGTCTTTAAAATGT
42422 IS [AG] GGTAATAAAAACATTTTAAAGACTGGCAAGAACCTTGACACTATTTAGATATCTAGTAGT[AG]TTTTAATGTATTTTGTGTAATAGAAAGATTCCCATCAAGTGATCAAATAGAGAAAAACA
A
42429 I S TGTTCTGTTTCATCCAGCGCAAGTATTTACTTGATCTGATTTCTTCTTT
42429 P C S ATGACGTGGCAGACGATACAGGTTAAATGGGCCY
42429 P G S CGCGCCGAGGCATACAGGTTAAATGGGCCY
42429 T C S CCCTGGCCCATTTAACCTGTATCAAGAAGAAATCAGATCAAGTAAATACTTGCGCTGGATGAAACAGAACATA
42429 T G S CCCTGGCCCATTTAACCTGTATGAAGAAGAAATCAGATCAAGTAAATACTTGCGCTGGATGAAACAGAACATA
42429 IS [CG] TAAGCAATATGGTGAGCCAATGTTATGGTGATAGTTTCCCTGGCCCATTTAACCTGTAT[CG]AAGAAGAAATCAGATCAAGTAAATACTTGCGCTGGATGAAACAGAACATAATTTTCACAA
42443 I S CACAGGGTCGGAGCCCCACCCA
42443 P G S ATGACGTGGCAGACCGTGCAGCCCACCY
42443 P A S CGCGCCGAGGTGTGCAGCCCACCY
42443 T G S TGCCGGTGGGCTGCACGGGGTGGGGCTCCGACCCTGTGCT
42443 T A S TGCCGGTGGGCTGCACAGGGTGGGGCTCCGACCCTGTGCT
42443 IS [GA] CCTCAGGTTCAAGGGTGATAGGCCCAGGGGCGCAGGCCAAGTCGGTGCCGGTGGGCTGCAC[GA]GGGTGGGGCTCCGACCCTGTGCTCTGTTCCCACGCAGGTTCTAAACGAAGCCGTGGCCGC
42453 I A TCTCAAGGTCAGCGCACCAGTTTCCCCC
42453 P T A CGCGCCGAGGTGTGTCGCCCTGCY
42453 P G A ATGACGTGGCAGACGGTGTCGCCCTGCY
42453 T T A AGTGGCAGGGCCACACAGGGGAAACTGGTGCGCTGACCTTGAGAGG
42453 T G A AGTGGCAGGGCGACACCGGGGAAACTGGTGCGCTGACCTTGAGAGG
42453 IS [TG] TCATGCTAAAACTGCAAAGTTCTCTCAGGCCCCTCTCAAGGTCAGCGCACCAGTTTCCCC[TG]GTGTCGCCCTGCCACTCGCTGCCTCATGCCCGGCTCACAGGCCTCGCTCCCCTTCAGGAC
42468 I A GAGAATTCAAGTTTTTCCCTTTTGGTAAGATTAAACAAATGGAAGAAAA
42468 P C A ATGACGTGGCAGACCTGGCTTCACATGAAAATGY
42468 P T A CGCGCCGAGGTTGGCTTCACATGAAAATGY
42468 T C A CTTTCATTTTCATGTGAAGCCAGTTTCTTCCATTTGTTTAATCTTACCAAAAGGGAAAAACTTGAATTCTCAT
42468 T T A CTTTCATTTTCATGTGAAGCCAATTTCTTCCATTTGTTTAATCTTACCAAAAGGGAAAAACTTGAATTCTCAT
42468 IS [CT] TGAAACGAAAATGAGAATTCAAGTTTTTTCCCTTTTGGTAAGATTAAACAAATGGAAGAAA[CT]TGGCTTCACATGAAAATGAAGTGGAAACCTGTTCCCTTAAAACTCTGAGATATTGGCAC
42475 I S AAAACATACATTTTATGTAAGGGATCGTTTGACCAAAGCATCT
42475 P T S CGCGCCGAGGATACATCTCAGTTATTCTTTACTCY
42475 P C S ATGACGTGGCAGACGTACATCTCAGTTATTCTTTACTTCY
42475 T T S CTCGGAAGTAAAGAATAACTGAGATGTATGATGCTTTGGTCAAACGATCCCTTACATAAAATGTATGTTTTGA
42475 T C S CTCGGAAGTAAAGAATAACTGAGATGTACGATGCTTTGGTCAAACGATCCCTTACATAAAATGTATGTTTTGA
42475 IS [TC] ATCACTACTTAGAAAATGAGAGCAAACATCCACTCGGAAGTAAAGAATAACTGAGATGTA[TC]GATGCTTTGGTCAAACGATCCCTTACATAAAATGTATGTTTTGACAAAATGAACAATTCA
42478 I S CTTCCCAGTCCCCCAGGACAATGTGGATT
42478 P T S CGCGCCGAGGACTCATCCTGGTTCTGGY
42478 P C S ATGACGTGGCAGAGCTCATCCTGGTTCTGY
42478 T T S TTTACCAGAACCAGGATCAGTATCCACATTGTCCTGGGGGACTGGGAAGGA
42478 T C S TTTACCAGAACCAGGATCAGCATCCACATTGTCCTGGGGGACTGGGAAGGA

FIGURE 129F


42478 IS [TC] TTACGAAGACACACAAGGCAGTAGCTGGTACCCTCACTTCTTTACCAGAACCAGGATGAG[TC]ATCCACATTGTCCTGGGGGACTGGGAAGGAAGAGACAGAGCGTCTCCTAACAAATAACAT
42503 I A TTATTGAAATATTATTTATTGTCCTTGGTTTTAGTTTAGTTATTGAAATATTGTTTATCGC
42503 P T A CGGCCCGAGGTCCTTGGAGGCTTAAAGTY
42503 P A A ATGACGTGGCAGACACCTTGGAGGCTTAAAGTY
42503 T T A TCATACTTTAAGCCTCCAAGGACGATAAACAATATTTCAATAACTAAACTAAAACCAAGGACAATAAATAATATTTCAATAA
42503 T A A TCATACTTTAAGCCTCCAAGGTCGATAAACAATATTTCAATAACTAAACTAAAACCAAGGACAATAAATAATATTTCAATAA
42503 IS [TA] TTATTGAAATATTATTTATTGTCCTTGGTTTTAGTTTAGTTATTGAAATATTGTTTATCG[TA]CCTTGGAGGCTTAAAGTATGAAAGCTTTAGGAAAAATTGAAGCTCCCAGAAAGGTAGATA
42511 I A CGGCGTCAGCACCTTCTCCCAGTACACT
42511 P G A ATGACGTGGCAGACGGTGGTGGATGAGAATGY
42511 P A A CGCGCCGAGGAGTGGTGGATGAGAATGY
42511 T G A ACTGCATTCTCATCCACCACCGTGTACTGGGAGAAGGTGCTGACGCCGAC
42511 T A A ACTGCATTCTCATCCACCACTGTGTACTGGGAGAAGGTGCTGACGCCGAC
42511 IS [GA] CACCTGCAGCGGGAAGCCATCCACCACTTCGTCGGCGTCAGCACCTTCTCCCAGTACAC[GA]GTGGTGGATGAGAATGCAGTGGCCAAAATTGATGCAGCCTCGCCCCTGCAGAAAGTCTGC MULTIPLE SHORT GENE NAMES
42513 I S ACTCTAAGCTCCCACAGGAAGAAGCCCCTTT
42513 P C S ATGACGTGGCAGACGGAAGTGCTGGACCTY
42513 P T S CGCGCCGAGGAAAAGTGCTGGACCTGY
42513 T C S ACCCCAGGTCCAGCACTTCCAAGGGGCTTCTTCCTGGTGGAAGCTTAGAGTCC
42513 T T S ACCCCAGGTCCAGCACTTCTAAGGGGCTTCTTCCTGGTGGAAGCTTAGAGTCC
42513 IS [CT] CTTGGCCCGAGACGGCTTCCCTGTAGGAGGTCCCCAAACAGACCCAGGTCCAGCACTTC[CT]AAGGGGCTTCTTCCTGGTGGAAGCTTAGAGTCCCCCCAGGCATGCAAAGGTGCTGAGCTC
42514 I S GCCTCTCCCTCCGGCTTTCCACTCCT
42514 P C S ATGACGTGGCAGACGGAAGCCTGACTGCGY
42514 P T S CGCGCCGAGGAGAAGCTGACTGCGY
42514 T C S GAAGCGCAGTCAGGCTCCGGAGTGGAAAGCCGGAGGGAGAGAGGCTT
42514 T T S GAAGCGCAGTCAGGCTCTGGAGTGGAAAGCCGGAGGGAGAGAGGCTT
42514 IS [CT] GGAGGACTTCATGGAGGAGGAGGCGGTCCTTCCACCAGGTTGTGAAGCGCAGTCAGGCTC[CT]GGAGTGGAAAGCCGGAGGGAGAGGCTTGGAGGCAAGAGGAAGAGGAGCTGTGTGCACAT
42542 I A GGTCCTGGGCTCCCATGGGCACT
42542 P A A CGCGCCGAGGAGAAGCGGGGAACTTY
42542 P G A ATGACGTGGCAGACGGAAGCGGGGAACTY
42542 T A A CCTAAAGTTCCCCGCTTCTGTGCCCATGGGAGCCCAGGACCTC
42542 T G A CCTAAAGTTCCCCGCTTCCGTGCCCATGGGAGCCCAGGACCTC
42542 IS [AG] CCGTTCCGAGGGGTTATGCCTGAGCAGTTTGGAGATGAGGTCCTGGGCTCCCATGGGCAC[AG]GAAGCGGGGAACTTTAGGTCCACCTGCAGGTGTGAAGAGATGGAAGGGCTGCATTAGTTT
42551 I S CTCAGACCCTGTGACCGACCCACACT
42551 P C S ATGACGTGGCAGACGGTCCAAGAGTGAGGCY
42551 P T S CGCGCCGAGGAGTCCAAGAGTGAGGCY
42551 T C S CCTGGCCTCACTCTTGGACCGTGTGGGTCCGGTCACAGGGTCTGAGCT
42551 T T S CCTGGCCTCACTCTTGGACTGTGTGGGTCCGGTCACAGGGTCTGAGCT
42551 IS [CT] CGATGTGAACTCAGGCCTGAGGGCACAGCCCGTGGTCACACCCTGGCCTCACTCTTGGAC[CT]GTGTGGGTCCGGTCACAGGGTCTGAGCTCCCTGTCCCTCACACGTGATTCCTACTTAATC
42553 I A GCTCCTGACACCTGCCCCAGGCA
42553 P C A ATGACGTGGCAGACCTCCTTCTTTCACTCTTCTCY
42553 P T A CGCGCCGAGGTTCCTCTTTCACTCTTCTCY
42553 T C A CTTGGAGAAGAGTCAAAGAAGGAAGCCTGGGGCAGGTGTCAGGAGCCA
42553 T T A CTTGGAGAAGAGTCAAAGAAGGAAGCCTGGGGCAGGTGTCAGGAGCCA
42553 IS [CT] TTGCCTTGGCTCCGGACACCTGCCTCAGGCTTGCCTTGGCTCCTGACACCTGCCCCAGGC[CT]TCCTTCTTTCACTCTTCTCCAAGGCAGCCACTCAGTATGGTATTTAAGGCTCAAATCATC
42557 I A GCCAAGAGTCTTGGGGGTAAGTCCTCTCCAT
42557 P A A CGCGCCGAGGATCAATAGGTCTTCCAGAAGY
42557 P G A ATGACGTGGCAGACGTCAATAGGTCTTCCAGAAGY
42557 T A A TCCCCTTCTGGAAGACCTATTGATTGGAAGAGGACTTACCCCCAAGACTCTTGGCTC
42557 T G A TCCCCTTCTGGAAGACCTATTGACTGGAAGAGGACTTACCCCCAAGACTCTTGGCTC
42557 IS [AG] TAGCTCTCTGCTGGATTTTCTGAAGGGAGAGCCAAGAGTCTTGGGGGTAAGTCCTCTCCA[AG]TCAATAGGTCTTCCAGAAGGGGAGAAAAGAAGTTTATTTATTCATGTATGTCTGCAGAGA
42559 I S ACCCCAAGTTTGGTTGTGAATTTCTTCCATAATAACCCACACT
42559 P C S ATGACGTGGCAGACGTCTTGTTTTACATGTAAGTTGCY
42559 P T S CGCGCCGAGGATCTTGTTTTACATGTAAGTTGCY
42559 T C S GCAAGCAACTTACATGTAAAACAAGACGTGTGGGTTATTATGGAAGAAATTCACAACCAAACTTGGGGTTA
42559 T T S GCAAGCAACTTACATGTAAAACAAGATGTGTGGGTTATTATGGAAGAAATTCACAACCAAACTTGGGGTTA
42559 IS [CT] TGACTCATAGGGAGGGCAAGGAGAGAAGGCACACAGCAAGCAACTTACATGTAAAACAAGA[CT]GTGTGGGTTATTATGGAAGAAATTCACAACCAAACTTGGGGTTAGCCCGTATTGTTTTCC
42571 I S CCCTTTTCATTCAGTGGGTTTAATGATTTGGTTGAAGTTACTGGTTACT
42571 P G S ATGACGTGGCAGACGTGTCTGTTTCCTCCATTATATY
42571 P T S CGCGCCGAGGATGTCTGTTTCCTCCATTATATTY
42571 T G S ATAAAATATAATGGAGGAAACAGACAGGTAACCAGTAACTTCAACCAAATCATTAAACGCACTGAATGAAAAGGGCA
42571 T T S ATAAAATATAATGGAGGAAACAGACATGTAACCAGTAACTTCAACCAAATCATTAAACGCACTGAATGAAAAGGGCA
42571 IS [GT] AAGGCAAATAGAATGTAGATTCTATTCCTGAGGAATAAATATAATGGAGGAAACAGACA[GT]GTAACCAGTAACTTCAACCAAATCATTAAACGCACTGAATGAAAAGGGCAATGGGAAAC
42573 I A AGGAAGGAGATAAAACTCGAAAGAACATCAAGAAGAGAATATATGTACT
42573 P A A CGCGCCGAGGATTTTAGTTTCTTGTCACAGAAGY
42573 P C A ATGACGTGGCAGACTTTTAGTTTCTTGTCACAGAAGY
42573 T A A CCTTCTTCTGTGACAAGAAACTAAAATGTACATATATTCTCTTCTTGATGTTCTTTCGAGTTTTATCTCCTTCCTAG
42573 T C A CCTTCTTCTGTGACAAGAAACTAAAAGGTACATATATTCTCTTCTTGATGTTCTTTCGAGTTTTATCTCCTTCCTAG
42573 IS [AC] TGAACCAGATCTAGGAAGGAGATAAAACTCGAAAGAACATCAAGAAGAGAATATATGTAC[AC]TTTTAGTTTCTTGTCACAGAAGAAGGAACACAGGTCACAGCAACCTTTTTCACAAGTAG
42578 I A CGTGTTAATACTCATGATAATTATTAGGGACCTGGCAGCT
42578 P G A ATGACGTGGCAGACGTGATTGGAGTATGGATGTTY
42578 P A A CGCGCCGAGGATGATTGGAGTATGGATGTTY
42578 T G A ACGGAAACATCCATACTCCAATCACGCTGCCAGGTCCCTAATAATTATCATGAGTATTAACACGAC
42578 T A A ACGGAAACATCCATACTCCAATCATGCTGCCAGGTCCCTAATAATTATCATGAGTATTAACACGAC
42578 IS [GA] TTCTGTGGTATTTTAAAAGTCGTGTTAATACTCATGATAATTATTAGGGACCTGGCAGC[GA]TGATTGGAGTATGGATGTTTCCGTAAAAGCTGGAATTCCGTAAAAGCATTGACGCAGCCC HOXC13
42580 I A CAGCCCCCTCCCGCTGGAGTGT
42580 P A A CGCGCCGAGGACAACTGGCCAGCAY
42580 P G A ATGACGTGGCAGACGCAACTGGCCAGCY
42580 T A A AGTATGCTGGCCAGTTGTCACTCCAGCGGGAGGGGGCTGCG
42580 T G A AGTATGCTGGCCAGTTGCCACTCCAGCGGGAGGGGGCTGCG
42580 IS [AG] CGGTTTAGTAATCAGACCACATGAGTCACGCCAAACACGCAGCCCCCTCCCGCTGGAGTG[AG]CAACTGGCCAGCATACTCTAGGCTGTTGTCCCTTTAAAACTTGAATCCAAGGGGGTAATG

42581 I		S	GGAGTCATGAGCTCCCCTCCCTCTTTGGATTA
42581 P	G	S	ATGACGTGGCAGACCCACATCACAGCTGTGY
42581 P	A	S	CGCGCCGAGGTCACATCACAGCTGTGY
42581 T	G	S	CACCCACAGCTGTGATGTGGAATCCAAAGAGGGAGGGGAGCTCATGACTCCAG
42581 T	A	S	CACCCACAGCTGTGATGTGAAATCCAAAGAGGGAGGGGAGCTCATGACTCCAG
42581 IS	[GA]		AAAATTAAAGAATCTTTCTACAGTGGTGATGGGGATGCGGGCACCCACAGCTGTGATGTG[GA]AATCCAAAGAGGGAGGGGAGCTCATGACTCCAGGGCTATTTCCATTCCCCCTTTACCCTT
42592 I		S	CTGGTTTGAAGTGTGACTTTGTACTGGGCCCACT
42592 P	G	S	ATGACGTGGCAGACCCTCACCTCTAGAATATTGTTTATY
42592 P	T	S	CGCGCCGAGGACTCACCTCTAGAATATTGTTTATTY
42592 T	G	S	ATCTAATAAACAATATTCTAGAGGTGAGGGTGGGCCCAGTACAAAGTCACACTTCAAACCAGCT
42592 T	T	S	ATCTAATAAACAATATTCTAGAGGTGAGTGTGGGCCCAGTACAAAGTCACACTTCAAACCAGCT
42592 IS	[GT]		ATCTGATGGGCTAAGGAAAAGCTTTTTCTTTTATCTAATAAACAATATTCTAGAGGTGAG[GT]GTGGGCCCAGTACAAAGTCACACTTCAAACCAGCTCCCTCCAGTGCTGGAGGGGGTTCGA
42595 I		S	CCAGAGACAGAATCTGAGTGGCCATGGTCAGGT
42595 P	C	S	ATGACGTGGCAGACGGTCCTCCCCTCTTCY
42595 P	T	S	CGCGCCGAGGAGTCCTCCCCTCTTCTY
42595 T	C	S	AGTCAGAAGAGGGGAGGACCCCTGACCATGGCCACTCAGATTCTGTCTCTGGGG
42595 T	T	S	AGTCAGAAGAGGGGAGGACTCCTGACCATGGCCACTCAGATTCTGTCTCTGGGG
42595 IS	[CT]		AGCAGGCCTGTTGGAATGAGGAGCCCCCTCCTCATCCAGGCAGTCAGAAGAGGGGAGGAC[CT]CCTGACCATGGCCACTCAGATTCTGTCTCTGGGGATTTGGAGTCAGAGCTGAGAGGTGTT
42596 I		A	GTCTCACTGAGCCCTGGCACGGGTAAAC
42596 P	T	A	CGCGCCGAGGTCTTGGGGAAAAGACCTY
42596 P	G	A	ATGACGTGGCAGACGCTTGGGGAAAAGACCY
42596 T	T	A	CCTCAGGTCTTTTCCCCAAGATTTACCCGTGCCAGGGCTCAGTGAGACCA
42596 T	G	A	CCTCAGGTCTTTTCCCCAAGCTTTACCCGTGCCAGGGCTCAGTGAGACCA
42596 IS	[TG]		CCTCTTCTGGCTACCTTCATCCAGCAATTTTTGGTCTCACTGAGCCCTGGCACGGGTAAA[TG]CTTGGGGAAAAGACCTGAGGCAAAGGTTTGTAGAAGGAAGGGACAAAGATCCTATTTCTG
42597 I		S	GGCGTGAAGGGGACAGGGGACGT
42597 P	C	S	ATGACGTGGCAGACGTAGAAACCTAAGGAAAATGCY
42597 P	T	S	CGCGCCGAGGATAGAAACCTAAGGAAAATGCTY
42597 T	C	S	CAAAAGCATTTTCCTTAGGTTTCTACCGTCCCCTGTCCCCTTCACGCCCA
42597 T	T	S	CAAAAGCATTTTCCTTAGGTTTCTATGGTCCCCTGTCCCCTTCACGCCCA
42597 IS	[CT]		TGTCATTAATATGAAAAGGTTCCTCTCATGTTGCCCAAAAGCATTTTCCTTAGGTTTCTA[CT]GGTCCCCTGTCCCCTTCACGCCCAGCCCCACCCCCTCCCGTGCCCAGGGCCTCTGAGGAG
42600 I		S	CCACCCCTCCCCCATCAGAAATAATGTATCTGATGATGT
42600 P	T	S	CGCGCCGAGGAAAATTACCAACAGCCTGAY
42600 P	C	S	ATGACGTGGCAGACGAAATTACCAACAGCCTGAY
42600 T	T	S	CTTTTCAGGCTGTTGGTAATTTTCATCATCAGATACATTATTTCTGATGGGGGAGGGGTGGGG
42600 T	C	S	CTTTTCAGGCTGTTGGTAATTTCCATCATCAGATACATTATTTCTGATGGGGGAGGGGTGGGG
42600 IS	[TC]		AAGTACGATGTGCAACTGAGAAGTTGCCATGATTTTTTCTTTTCAGGCTGTTGGTAATTT[TC]CATCATCAGATACATTATTTCTGATGGGGGAGGGGTGGGGGTGTGTGAATAGGGCCGCTG
42607 I		A	AGATGTGCCATGGGAGGGAGGAGGGTAA
42607 P	C	A	ATGACGTGGCAGACCCCACTGACAGGCCY
42607 P	T	A	CGCGCCGAGGTCCACTGACAGGCCY
42607 T	C	A	CAGAGGCCTGTCAGTGGGTACCCTCCTCCCTCCCATGGCACATCTAG
42607 T	T	A	CAGAGGCCTGTCAGTGGATACCCTCCTCCCTCCCATGGCACATCTAG
42607 IS	[CT]		TGTGCTTGTACAGCAGGCTGTGCCTGGGGACCTAGATGTGCCATGGGAGGGAGGAGGGTA[CT]CCACTGACAGGCCTCTGCCTCCCTCCTCAAGCCCTCTGTTCTCCCTGCCCCCACTCTGGA
42611 I		S	AAAGTGAGTTAGAGTTCCTTGGAGTTGGTTGTATGACT
42611 P	C	S	ATGACGTGGCAGACGGAATATGACTTGGACAATCTY
42611 P	T	S	CGCGCCGAGGAGAATATGACTTGGACAATCTTY
42611 T	C	S	GGTAAAGATTGTCCAAGTCATATTCCGTCATACAACCAACTCCAAGGAACTCTAACTCACTTTAT
42611 T	T	S	GGTAAAGATTGTCCAAGTCATATTCTGTCATACAACCAACTCCAAGGAACTCTAACTCACTTTAT
42611 IS	[CT]		GGAAAGTGTGACTGAGGGGCTTACGGATGGCTTCTGGTAAAGATTGTCCAAGTCATATTC[CT]GTCATACAACCAACTCCAAGGAACTCTAACTCACTTTATAATTTTGATTTACCAGCTATT
42612 I		S	ATCCCACATTGTTTCGCGATTTAACATTAACATTTATACAAAAGTTT
42612 P	C	S	ATGACGTGGCAGACGCTAATTAGAACAAAAGTTATTGATTAGY
42612 P	T	S	CGCGCCGAGGACTAATTAGAACAAAAGTTATTGATTAGAY
42612 T	C	S	TAATTCTAATCAATAACTTTTGTTCTAATTAGCAACTTTTGTATAAATGTTAATGTTAAATCGCGAAACAATGTGGGATGG
42612 T	T	S	TAATTCTAATCAATAACTTTTGTTCTAATTAGTAACTTTTGTATAAATGTTAATGTTAAATCGCGAAACAATGTGGGATGG
42612 IS	[CT]		TATGTTTGTCCAGGTTTTTCTAATAAGTTAATTCTAATCAATAACTTTTGTTCTAATTAG[CT]AACTTTTGTATAAATGTTAATGTTAAATCGCGAAACAATGTGGGATGGGATACTAAGTTC
42615 I		A	GTACCTTTAAAAATACATAATTTAGTTTGCAAGCTATATTATGCTACTTTCTATTTTCCTA
42615 P	T	A	CGCGCCGAGGTGTTACTTTATAGCAATTCATTTTACY
42615 P	C	A	ATGACGTGGCAGACCGTTACTTTATAGCAATTCATTTTACY
42615 T	T	A	GAGGGTAAAATGAATTGCTATAAAGTAACAAGGAAAATAGAAAGTAGCATAATATAGCTTGCAAACTAAATTATGTATTTTTAAAGGTAC
42615 T	C	A	GAGGGTAAAATGAATTGCTATAAAGTAACGAGGAAAATAGAAAGTAGCATAATATAGCTTGCAAACTAAATTATGTATTTTTAAAGGTAC
42615 IS	[TC]		GTACCTTTAAAAATACATAATTTAGTTTGCAAGCTATATTATGCTACTTTCTATTTTCCT[TC]GTTACTTTATAGCAATTCATTTTACCCTCACAAAGTCAATTTAGAACCTTATCATTAACT
42633 I		A	GTGTCTGGGGAGGCTGCCTCAAGAGAT
42633 P	G	A	ATGACGTGGCAGACGGGAAGATACTACCAAGACTY
42633 P	C	A	CGCGCCGAGGCGGAAGATACTACCAAGACTY
42633 T	G	A	ATCCAGTCTTGGTAGTATCTTCCCTCTCTTGAGGCAGCCTCCCCAGACACCA
42633 T	C	A	ATCCAGTCTTGGTAGTATCTTCCGTCTCTTGAGGCAGCCTCCCCAGACACCA
42633 IS	[GC]		GCTTGCTGCTGCCTCATTTGTGCAAAAATGGCTGGTGTCTGGGGAGGCTGCCTCAAGAGA[GC]GGAAGATACTACCAAGACTGGATTCCATTAAGAGTGGAGATTTTCACCCGACCTCTGGCA
42634 I		S	CCTCAATAAGCCTTCAAACCGACATGTCAGGGTT
42634 P	T	S	CGCGCCGAGGATAAATAAGGGACTGGTCATTTAY
42634 P	C	S	ATGACGTGGCAGACGTAAATAAGGGACTGGTCATTY
42634 T	T	S	AACATAAATGACCAGTCCCTTATTTATACCCTGACATGTCGGTTTGAAGGCTTATTGAGGCC
42634 T	C	S	AACATAAATGACCAGTCCCTTATTTACACCCTGACATGTCGGTTTGAAGGCTTATTGAGGCC
42634 IS	[TC]		CCTGGACTATGAGTGTGGGACCATCTCCTTCTTCAACATAAATGACCAGTCCCTTATTTA[TC]ACCCTGACATGTCGGTTTGAAGGCTTATTGAGGCCCTACATTGAGTATCCGTCCTATAAT
42637 I		S	AGCTGTCTTTTCGCTTCTTTTGCAGCTAATCTCTTTGGATTAAAAGT
42637 P	T	S	CGCGCCGAGGAGAGGTTTCCAAATCTGTGY
42637 P	C	S	ATGACGTGGCAGACGGAGGTTTCCAAATCTGTY
42637 T	T	S	TGACCACAGATTTGGAAACCTCTCTTTTAATCCAAAGAGATTAGCTGCAAAAGAAGCGAAAAGACAGCTTT
42637 T	C	S	TGACCACAGATTTGGAAACCTCCCTTTTAATCCAAAGAGATTAGCTGCAAAAGAAGCGAAAAGACAGCTTT
42637 IS	[TC]		AACAGTTGGAAAATACTGCTTTGAGTAACCTTAGATATTGACCACAGATTTGGAAACCTC[TC]CTTTTAATCCAAAGAGATTAGCTGCAAAAGAAGCGAAAAGACAGCTTTCAGAAATGGTAA
42638 I		S	GGTGCAGGGAAGAGATTCCTGGGGGTGA
42638 P	G	S	ATGACGTGGCAGACCCCACCCTCCCTCTY
42638 P	A	S	CGCGCCGAGGTCCACCCTCCCTCTY
42638 T	G	S	GATGAGAGGGAGGGTGGGCACCCCCAGGAATCTCTTCCCTGCACCTT

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42638 T   A     S   GATGAGAGGGAGGGTGGACACCCCCAGGAATCTCTTCCCTGCACCTT

42638 IS  [GA]      CTGCCTCCTGCCCTGTGCCCGCCTCACTTCATGTTCTTCCTCAGATGAGAGGGAGGGTGG[GA]CACCCCCAGGAATCTCTTCCCTGCACCTTGGCCCCCTGCCCCTGGAGGAGCCCAGCTTCT
42640 I         S   CGCTGGAAACAAACCATAGAACCACTCACATCCAAATATAGATATTCATACAC
42640 P   C     S   ATGAGGTGGCAGACGATCATCTTCTCTCCAACTCY
42640 P   A     S   CGCGCCGAGGTATCATCTTCTCTCCAACTCCY

42640 T   C     S   GTTTGGAGTTGGAGAGAAGATGATCTGTATGAATATCTATATTTGGATGTGAGTGGTTCTATGGTTTTGTTTCCAGCGGG

42640 T   A     S   GTTTGGAGTTGGAGAGAAGATGATATGTATGAATATCTATATTTGGATGTGAGTGGTTCTATGGTTTTGTTTCCAGCGGG

42640 IS  [CA]      CTGGGTGTTTGCCACTACTTGGGGTAGTGGGTGTGTGTTTGGAGTTGGAGAGAAGATGAT[CA]TGTATGAATATCTATATTTGGATGTGAGTGGTTCTATGGTTTTGTTTCCAGCGGGCATTG
42643 I         S   GCTACGGTGGTGAATTGGTACTTTTTGAAACACCTCCC
42643 P   T     S   CGCGCCGAGGAAGTTATCCCTCCAGGTTATY
42643 P   A     S   ATGACGTGGCAGACTAGTTATCCCTCCAGGTTATCY
42643 T   T     S   TAGGGATAACCTGGAGGGATAACTTGGAGGTGTTTCAAAAAGTACCAATTCACCACCGTAGCTG
42643 T   A     S   TAGGGATAACCTGGAGGGATAACTAGGAGGTGTTTCAAAAAGTACCAATTCACCACCGTAGCTG

42643 IS  [TA]      CTCATCAGCTAAGGCCTGGACTATTAGGGAAGACAATAGGGATAACCTGGAGGGATAACT[TA]GGAGGTGTTTCAAAAAGTACCAATTCACCACCGTAGCTGCAAATCTAGCCTGGTGAGACT
42646 I         A   CTAGGGCAACGGAGGGGCAGTGGA
42646 P   C     A   ATGACGTGGCAGACCGGGCACTGCAGCY
42646 P   T     A   CGCGCCGAGGTGGGCACTGCAGCY
42646 T   C     A   CCCTGCTGCAGTGCCCGCCACTGCCCCTCCGTTGCCCTAGGT
42646 T   T     A   CCCTGCTGCAGTGCCCACCACTGCCCCTCCGTTGCCCTAGGT

42646 IS  [CT]      TAGGCGTGGCAACCAGCCTTTCTGCTTGAACACGAACCTAGGGCAACGGAGGGGCAGTGG[CT]GGGCACTGCAGCAGGGCGTTGCCTCTCAGGGCGTGTGCCCCATCTGGGTTACCAGGAGTT
42655 I         S   AGGCATCACAGGCTCTGGGTCAATTTGTCCT
42655 P   T     S   CGCGCCGAGGAGCTTTTCGCTTAACTCCY
42655 P   C     S   ATGACGTGGCAGACGGCTTTTCGCTTAACTCCY
42655 T   T     S   TCAGGGAGTTAAGCGAAAAGCTGGACAAATTGACCCAGAGCCTGTGATGCCTGT
42655 T   C     S   TCAGGGAGTTAAGCGAAAAGCCGGACAAATTGACCCAGAGCCTGTGATGCCTGT

42655 IS  [TC]      AACAAACATAGATGAGTCAGCTATGCCTCCACCACCACCTCAGGGAGTTAAGCGAAAAGC[TC]GGACAAATTGACCCAGAGCCTGTGATGCCTGTAAGTAAGCAAATCTATCCATTAAGTCAT
42660 I         S   GCCCTAAATGAGGGGGAAAAGGGACTCTCTGATGA
42660 P   G     S   ATGACGTGGCAGACCCCTGCTTTTGACATTCAY
42660 P   A     S   CGCGCCGAGGTCCTGCTTTTGACATTCATY
42660 T   G     S   GGAGATGAATGTCAAAAGCAGGGCATCAGAGAGTCCCTTTTCCCCCTCATTTAGGGCAT
42660 T   A     S   GGAGATGAATGTCAAAAGCAGGACATCAGAGAGTCCCTTTTCCCCCTCATTTAGGGCAT

42660 IS  [GA]      CTGATATTCCAAATTTAGAGAGATGAACAAATGGTTCTGGAGATGAATGTCAAAAGCAGG[GA]CATCAGAGAGTCCCTTTTCCCCCTCATTTAGGGCATAGCAGTTTGTACGTGACAGCTTCA
42682 I         A   GGCCCCTTGACACCTTGCGACGCT
42682 P   A     A   CGCGCCGAGGATGACATGGAGAGCTCTTY
42682 P   G     A   ATGACGTGGCAGAGGTGACATGGAGAGCTCTY
42682 T   A     A   CAAAAAGAGCTCTCCATGTCATGGCTCGCAAGGTGTCAAGGGGCCTG
42682 T   G     A   CAAAAAGAGCTCTCCATGTCACGCGTCGCAAGGTGTCAAGGGGCCTG

42682 IS  [AG]      CTCTCCTCCTCCAGCCTTCCCCACGGTGGTGGATGCAGGCCCCTTGACACCTTGCGACGC[AG]TGACATGGAGAGCTCTTTTTGTGTTACCATGTTTTGAAGCATTCATTCCAGCTTGACTCT
42688 I         A   GCTGGGGTTCCCAGCATGACACATAGGGT
42688 P   A     A   CGCGCCGAGGACATCAACGAAACGGTTAAY
42688 P   C     A   ATGACGTGGCAGACCCATCAACGAAACGGTTY
42688 T   A     A   GGTTTTAACCGTTCGTTGATGTCCCTATGTGTCATGCTGGGAACCCCAGCTG
42688 T   C     A   GGTTTTAACCGTTTCGTTGATGGCCCTATGTGTCATGCTGGGAACCCCAGCTG

42688 IS  [AC]      CCCTGTCCCTCATGAACTAACCATGGGGATCAGCTGGGGTTCCCAGCATGACACATAGGG[AC]CATCAACGAAACGGTTAAAACCACCTAAGAGTCAGGCACTACTTTATAGAACACTATGAG
42703 I         A   CAGCTAACTTATTAGCCACTCCCAGGGCCCA
42703 P   C     A   ATGACGTGGCAGACCGAGAGCCTTCCTAACTY
42703 P   T     A   CGCGCCGAGGTGACAGCCTTCCTAACTCY
42703 T   C     A   AAAGGAGTTAGGAAGGCTCTCGGGGCCCTGGGAGTGGCTAATAAGTTAGCTGCA
42703 T   T     A   AAAGGAGTTAGGAAGGCTCTCAGGGCCCTGGGAGTGGCTAATAAGTTAGCTGCA

42703 IS  [CT]      TCTGGAACAGCAGGGGAGAGCTACTAGCTGCAGCTAACTTATTAGCCACTCCCAGGGCCC[CT]GAGAGCCTTCCTAACTCCTTTACGCAAGCCTGAGAATGTGCTAAAAATAGCTTCAGGCAG
42722 I         A   CTTGGGTCAGAAGCAATGCAAGTCAAGCTTAGGTT
42722 P   C     A   CGCGCCGAGGCTATGGTTTTTGCTCCTGAY
42722 P   G     A   ATGACGTGGCAGACGTATGGTTTTTGCTCCTGAY
42722 T   C     A   CTGATCAGGAGCAAAAACCATAGACCTAAGCTTGACTTGCATTGCTTCTGACCCAAGTA
42722 T   G     A   CTGATCAGGAGCAAAAACCATACACCTAAGCTTGACTTGCATTGCTTCTGACCCAAGTA

42722 IS  [CG]      AAATCTTTATAAGAAAATCATTACTACTTGGGTCAGAAGCAATGCAAGTCAAGCTTAGGT[CG]TATGGTTTTTGCTCCTGATCAGTAATATGTAGATGGCATGTGTTCTCTTACCCTCTCTAA
42724 I         A   GTGTATATATTCATCATATACTTGTACACACACACACAAATAAAACCTGTT
42724 P   A     A   CGCGCCGAGGATCTCACGGCCCACY
42724 P   G     A   ATGACGTGGCAGACGTCTCACGGCCCAY
42724 T   A     A   ATATGTGGGCCGTGAGATACAGGTTTTATTTGTGTGTGTGTACAAGTATATGATGAATATATACACAT
42724 T   G     A   ATATGTGGGCCGTGAGACACAGGTTTTATTTGTGTGTGTGTACAAGTATATGATGAATATATACACAT

42724 IS  [AG]      ATGAGTGAATGTGTATATATTCATCATATACTTGTACACACACACACAAATAAAACCTGT[AG]TCTCACGGCCCACATATCTTGCTTAAGCTGCTCTTTCAGGAAGATTTATGACACTCTGCT
42736 I         S   GCAATAACAACTTTTTCCATTGTCTTAAATGTTTTGACCCCTAAAAATAGGTCATT
42736 P   T     S   CGCGCCGAGGAAAGTCAATTTTCTATGAGCAATY
42736 P   C     S   ATGACGTGGCAGACGAAGTCAATTTTCTATGAGCAATY

42736 T   T     S   ATACATTGCTCATAGAAAATTGACTTTATGACCTATTTTTAGGGGTCAAAACATTTAAGACAATGGAAAAAGTCGTTATTGCAT

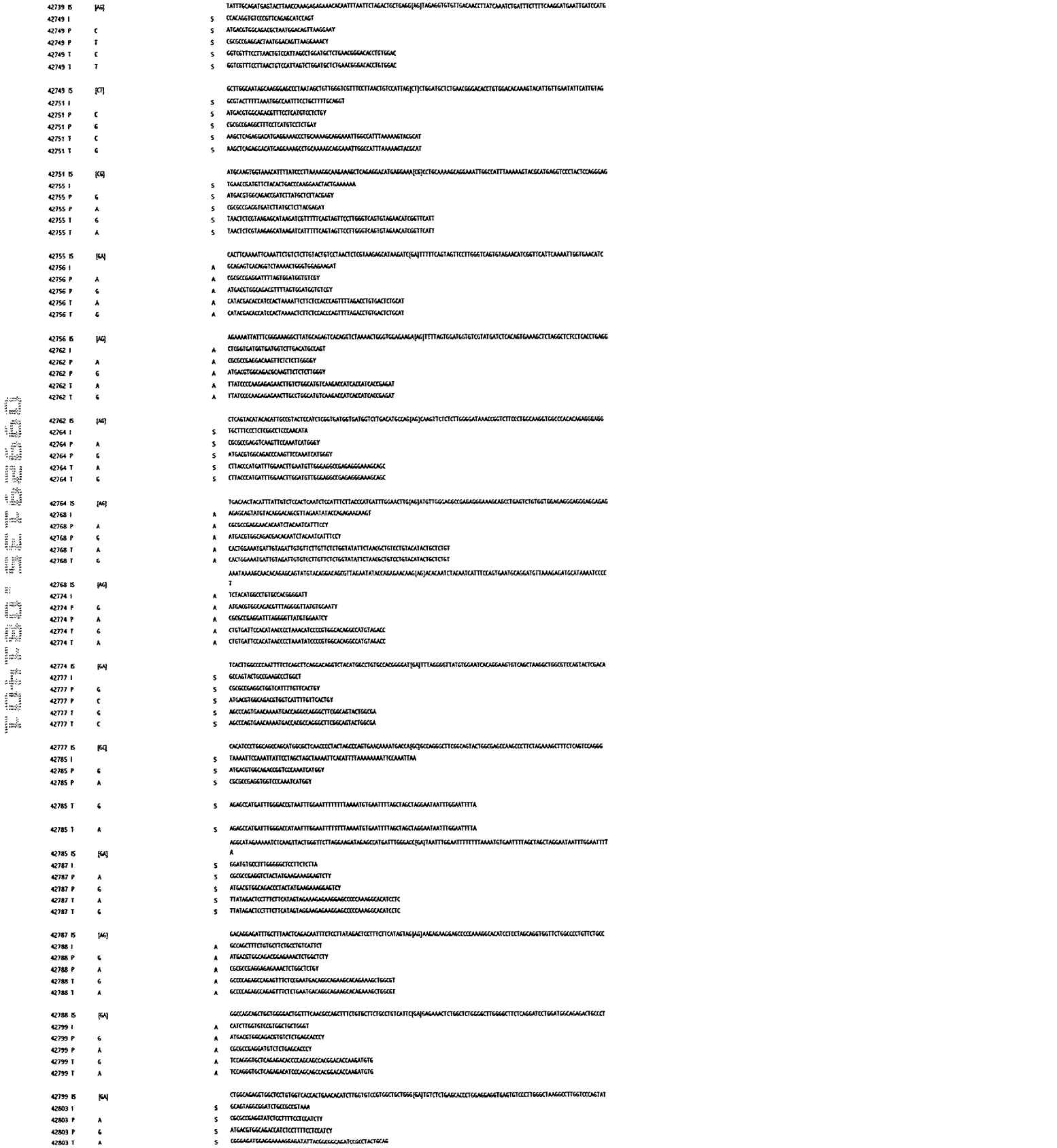
42736 T   C     S   ATACATTGCTCATAGAAAATTGACTTCATGACCTATTTTTAGGGGTCAAAACATTTAAGACAATGGAAAAAGTCGTTATTGCAT

42736 IS  [TC]      TCTACAGCTCTGCATCTTTTGTGTTTTGAAACAAATACATTGCTCATAGAAAATTGACTT[TC]ATGACCTATTTTTAGGGGTCAAAACATTTAAGACAATGGAAAAAGTCGTTATTGCATATG
42737 I         A   CAGCACTAGGGCAAGATAGAATTTAAAGTAATTCTGTTGTGCAAGG
42737 P   G     A   ATGACGTGGCAGACGAGTGAAAGACAAAACTAGGAY
42737 P   C     A   CGCGCCGAGGCAGTGAAAGACAAAACTAGGY
42737 T   G     A   ATACTCCTAGTTTTTGTCTTTCACTCCCTTGCACAACAGAATTACTTTAAATTCTATCTTGCCCTAGTGCTGTA
42737 T   C     A   ATACTCCTAGTTTTTGTCTTTCACTGCCTTGCACAACAGAATTACTTTAAATTCTATCTTGCCCTAGTGCTGTA

42737 IS  [GC]      CGAGGTACTGGCTACAGCACTAGGGCAAGATAGAATTTAAAGTAATTCTGTTGTGCAAGG[GC]AGTGAAAGACAAAAACTAGGAGTATAGAGAAAGCAACAGATAAGAAGCCAAGTATTTCA
                    G
42739 I         S   CAATTCATCCTTGAAAAGAAATCAGATTTGATAAGGTTGTCAACACACCTCTAA
42739 P   A     S   CGCGCCGAGGTCCTCAGCAGTCTAGAATTAY
42739 P   G     S   ATGACGTGGCAGACCCCTCAGCAGTCTAGAATY

42739 T   A     S   AATTTAATTCTAGACTGCTGAGGATAGAGGTGTGTTGACAACCTTATCAAATCTGATTTCTTTTCAAGGATGAATTGAT

42739 T   G     S   AATTTAATTCTAGACTGCTGAGGGTAGAGGTGTGTTGACAACCTTATCAAATCTGATTTCTTTTCAAGGATGAATTGAT
```


42739 IS [AG] TATTTGCAGATGAGTACTTAACCAAACAGAGAAACACAATTTAATTCTAGACTGCTGAGG[AG]TAGAGGTGTGTTGACAACCTTATCAAATCTGATTTCTTTTCAAGGATGAATTGATCCATG
42749 I S CCACAGGTGTCCCGTTCAGAGCATCCAGT
42749 P C S ATGACGTGGCAGACGCTAATGGACAGTTAAGGAAY
42749 P T S CGCGCCGAGGACTAATGGACAGTTAAGGAAACY
42749 T C S GGTCGTTTCCTTAACTGTCCATTAGCCTGGATGCTCTGAACGGGACACCTGTGGAC
42749 T T S GGTCGTTTCCTTAACTGTCCATTAGTCTGGATGCTCTGAACGGACACCTGTGGAC
42749 IS [CT] GCTTGGCAATAGCAAGGGAGCCCTAATAGCTGTTGGGTCGTTTCCTTAACTGTCCATTAG[CT]CTGGATGCTCTGAACGGGACACCTGTGGACACAAAGTACATTGTTGAATATTCATTGTAG
42751 I S GCGTACTTTTTAAATGGCCAATTTCCTGCTTTTGCAGGT
42751 P C S ATGACGTGGCAGACGTTTCCTCATGTCCTCTGY
42751 P G S CGCGCCGAGGCTTTCCTCATGTCCTCTGAY
42751 T C S AAGCTCAGAGGACATGAGGAAACCCTGCAAAAGCAGGAAATTGGCCATTTAAAAAGTACGCAT
42751 T G S AAGCTCAGAGGACATGAGGAAAGCCTGCAAAAGCAGGAAATTGGCCATTTAAAAAGTACGCAT
42751 IS [CG] ATGCAAGTGGTAAACATTTTATCCCTTAAAAGCAAGAAAGCTCAGAGGACATGAGGAAA[CG]CCTGCAAAAGCAGGAAATTGGCCATTTAAAAAGTACGCATGAGGTCCCTACTCCAGGGAG
42755 I S TGAACCCATGTTCTACACTGACCCAAGGAACTACTGAAAAAA
42755 P G S ATGACGTGGCAGACGATCTTATGCTCTTACGAGY
42755 P A S CGCGCCGAGGTGATCTTATGCTCTTACGAGAY
42755 T G S TAACTCTCGTAAGAGCATAAGATCGTTTTTCAGTAGTTCCTTGGGTCAGTGTAGAACATCGGTTCATT
42755 T A S TAACTCTCGTAAGAGCATAAGATCATTTTTCAGTAGTTCCTTGGGTCAGTGTAGAACATCGGTTCATT
42755 IS [GA] CACTTCAAAATTCAAATTCTGTCTCTTGTACTGTCCTAACTCTCGTAAGAGCATAAGATC[GA]TTTTTCAGTAGTTCCTTGGGTCAGTGTAGAACATCGGTTCATTCAAAATTGGTGAACATC
42756 I A GCAGAGTCACAGGTCTAAAACTGGGTGGAGAAGAT
42756 P A A CGCGCCGAGGATTTAGTGGATGGTGTCGY
42756 P G A ATGACGTGGCAGACGCAAGTTCTCTCTTGGGY
42756 T A A CATACGACACCATCCACTAAAATTCTTCTCCACCCAGTTTTAGACCTGTGACTCTGCAT
42756 T G A CATACGACACCATCCACTAAAACTCTTCTCCACCCAGTTTTAGACCTGTGACTCTGCAT
42756 IS [AG] AGAAAATTATTTCGGGAAAGGCTTATGCAGAGTCACAGGTCTAAAACTGGGTGGAGAAGA[AG]TTTTAGTGGATGGTGTCGTATGATCTCACAGTGAAAGCTCTAGGCTCTCCTCACCTGAGG
42762 I A CTGGGTGATGGTGATGGTCTTGACATGCCAGT
42762 P A A CGCGCCGAGGACAAGTTCTCTCTTGGGGY
42762 P G A ATGACGTGGCAGACGCAAGTTCTCTCTTGGGY
42762 T A A TTATCCCCAAGAGAGAAACTTGCTGGCATGTCAAGACCATCACCATCACCGAGAT
42762 T G A TTATCCCCAAGAGAGAAACTTGCCTGGCATGTCAAGACCATCACCATCACCGAGAT
42762 IS [AG] CTCAGTACATACACATTGCCGTACTCCATCTGGGTGATGGTGATGGTCTTGACATGCCAG[AG]CAAGTTCTCTCTTGGGGATAAACCGGTCTTCCCTGGCAAGGTGGCCCACACAGAGGGAGG
42764 I S TGCTTTCCCTCTCGGCCTCCCAACATA
42764 P A S CGCGCCGAGGTCAAGTTCCAAATCATGGGY
42764 P G S ATGACGTGGCAGACCCAAGTTCCAAATCATGGGY
42764 T A S CTTACCCATGATTTGGAACTTGAATGTTGGGAGGCCGAGAGGGAAAGCAGC
42764 T G S CTTACCCATGATTTGGAACTTGGATGTTGGGAGGCCGAGAGGGAAAGCAGC
42764 IS [AG] TGACAACTACATTTATTGTCTCCACTCAATCTCCATTTCTTACCCATGATTTGGAACTTG[AG]ATGTTGGGAGGCCGAGAGGGAAAGCAGCCTGAGTCTGTGGTGGAGAGGGAGGGAGAGAG
42768 I A AGAGCAGTATGTACAGGACAGCGTTAGAATATACCAGAGAACAAG
42768 P A A CGCGCCGAGGAACACAATCTACAATCATTTCCY
42768 P G A ATGACGTGGCAGACGACACAATCTACAATCATTTCCY
42768 T A A CACTGGAAATGATTGTAGATTGTGTCTTGTTCTCTGGTATATTCTAACGCTGTCCTGTACATACTGCTCTGT
42768 T G A CACTGGAAATGATTGTAGATTGTGTCCTTGTTCTCTGGTATATTCTAACGCTGTCCTGTACATACTGCTCTGT
42768 IS [AG] AAATAAAAGCAACACAGAGCAGTATGTACAGGACAGCGTTAGAATATACCAGAGAACAAG[AG]ACACAATCTACAATCATTTCCAGTGAATGCAGGATGTTAAAGAGATGCATAAATCCCCT
42774 I A TCTACATGGCCTGTGCCACGGGGATT
42774 P G A ATGACGTGGCAGACGTTTAGGGGTTATGTGGAATY
42774 P A A CGCGCCGAGGATTTAGGGGTTATGTGGAATCY
42774 T G A CTGTGATTCCACATAACCCCTAAATATCCCCGTGGCACAGGCCATGTAGACC
42774 T A A CTGTGATTCCACATAACCCCTAAATATCCCCGTGGCACAGGCCATGTAGACC
42774 IS [GA] TCACTTGGCCCCAATTTTCTCAGCTTCAGGACAGGTCTACATGGCCTGTGCCACGGGGATT[GA]TTTAGGGGTTATGTGGAATCACAGGAAGTGTCAGCTAAGGCTGGCGTCCAGTACTCGACA
42777 I S GCCAGTACTGCCGAAGCCCTGGCT
42777 P G S CGCGCCGAGGCTGGTCATTTTGTTCACTGY
42777 P C S ATGACGTGGCAGACGTGGTCATTTTGTTCACTGY
42777 T G S AGCCCAGTGAACAAAATGACCAGGCCAGGGCTTCGGCAGTACTGGCGA
42777 T C S AGCCCAGTGAACAAAATGACCACGCCAGGGCTTCGGCAGTACTGGCGA
42777 IS [GC] CACATCCCTGGCAGCCAGCATGGCGCTCAACCCCTACTAGCCCAGTGAACAAATGACCA[GC]GCCAGGGCTTCGGCAGTACTGGCGAGCCAAGCCCTTCTAGAAAGCTTTCTCAGTCCAGGG
42785 I S TAAAATTCCAAATTATTCCTAGCTAGCTAAAATTCACATTTTAAAAAAAATTCCAAATTAA
42785 P G S ATGACGTGGCAGACCGGTCCCAAATCATGGY
42785 P A S CGCGCCGAGGTGGTCCCAAATCATGGY
42785 T G S AGAGCCATGATTTGGGACCGTAATTTGGAATTTTTTTTAAAATGTGAATTTTAGCTAGCTAGGAATAATTTGGAATTTTA
42785 T A S AGAGCCATGATTTGGGACCATAATTTGGAATTTTTTTTAAAATGTGAATTTTAGCTAGCTAGGAATAATTTGGAATTTTA
42785 IS [GA] AGGCATAGAAAAATCTCAAGTTACTGGGTTCTTAGGAAGATAGAGCCATGATTTGGGACC[GA]TAATTTGGAATTTTTTTTAAAATGTGAATTTTAGCTAGCTAGGAATAATTTGGAATTTT
A
42787 I S GGATGTGCCTTTGGGGGCTCCTTCTCTTA
42787 P A S CGCGCCGAGGTCTACTATGAAGAAAGGAGTCTY
42787 P G S ATGACGTGGCAGACCCTACTATGAAGAAAGGAGTCY
42787 T A S TTATAGACTCCTTTCTCATAGTAGAAAGAAGGAGCCCCAAAGGCACATCCTC
42787 T G S TTATAGACTCCTTTCTCATAGTAGGAAGAAGGAGCCCCAAAGGCACATCCTC
42787 IS [AG] GACAGGAGATTTGCTTTAACTCAGACAATTTCTCCTTATAGACTCCTTTCTTCATAGTAG[AG]AAGAGAAGGAGCCCCAAAGGCACATCCTCCTCCTAGCAGGTGGTTCTGGCCCCTGTTCTGCC
42788 I A GCCAGCTTTCTGTGCTTCTGCCTGTCATTCT
42788 P G A ATGACGTGGCAGACGCAGAAACTCTGGCTCTY
42788 P A A CGCGCCGAGGAGAGAAACTCTGGCTCTGY
42788 T G A GCCCCAGAGCCAGAGTTTCTCCGAATGACAGGCAGAAGCACAGAAAGCTGGCGT
42788 T A A GCCCCAGAGCCAGAGTTTCTCTGAATGACAGGCAGAAGCACAGAAAGCTGGCGT
42788 IS [GA] GGCCAGCAGCTGGTGGGGACTGGTTTCAACGCCAGCTTTCTGTGCTTCTGCCTGTCATTC[GA]GAGAAACTCTGGCTCTGGGGCTTCTCAGGATCCTGGATGGCAGAGACTGCCCT
42799 I A CATCTTGGTGTCCGTGGCTGCTGGGT
42799 P G A ATGACGTGGCAGACGTGTCTCTGAGCACCCY
42799 P A A CGCGCCGAGGATGTCTCTGAGCACCCY
42799 T G A TCCAGGGTGCTCAGAGACACCCCAGCAGCCAGGACACCAAGATGTG
42799 T A A TCCAGGGTGCTCAGAGACATCCCAGCAGCCACGGACACCAAGATGTG
42799 IS [GA] CTGGCAGAGGTGGCTCCTGTGGTCACCACTGAACACATCTTGGTGTCCGTGGCTGCTGGG[GA]TGTCTCTGAGCACCCTGGAGGAGGTGAGTGTCCCTTGGGCTAAGGCCTTGGTCCCAGTAT
42803 I S GCAGTAGGCGGATCTGCCGCCGTAAA
42803 P A S CGCGCCGAGGTATCTCCTTTCCTCCATCTY
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42803 T A S CGGGAGATGGAGGAAAAGGAGATATTACGGGGCAGATCCGCCTACTGCAG

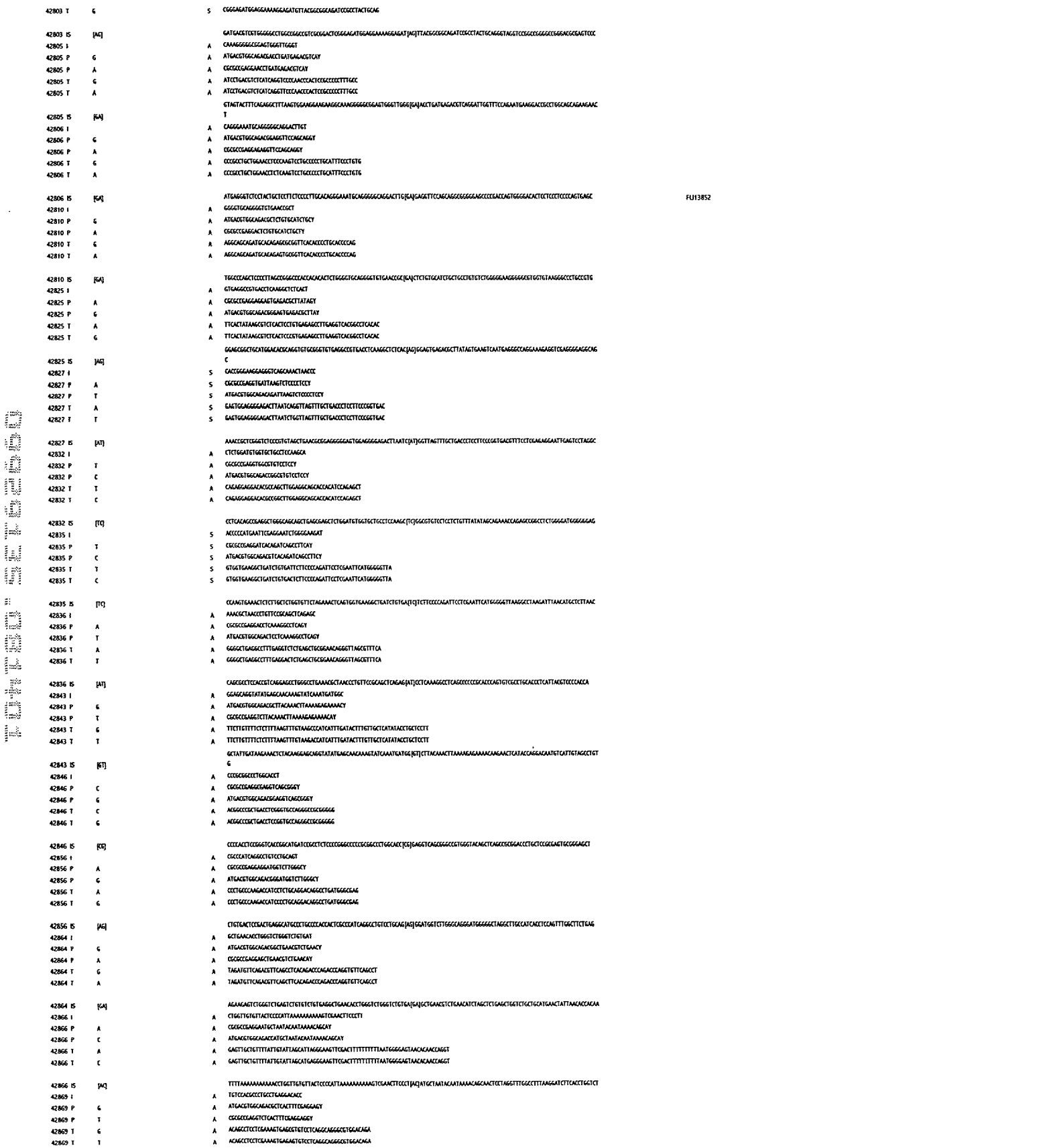
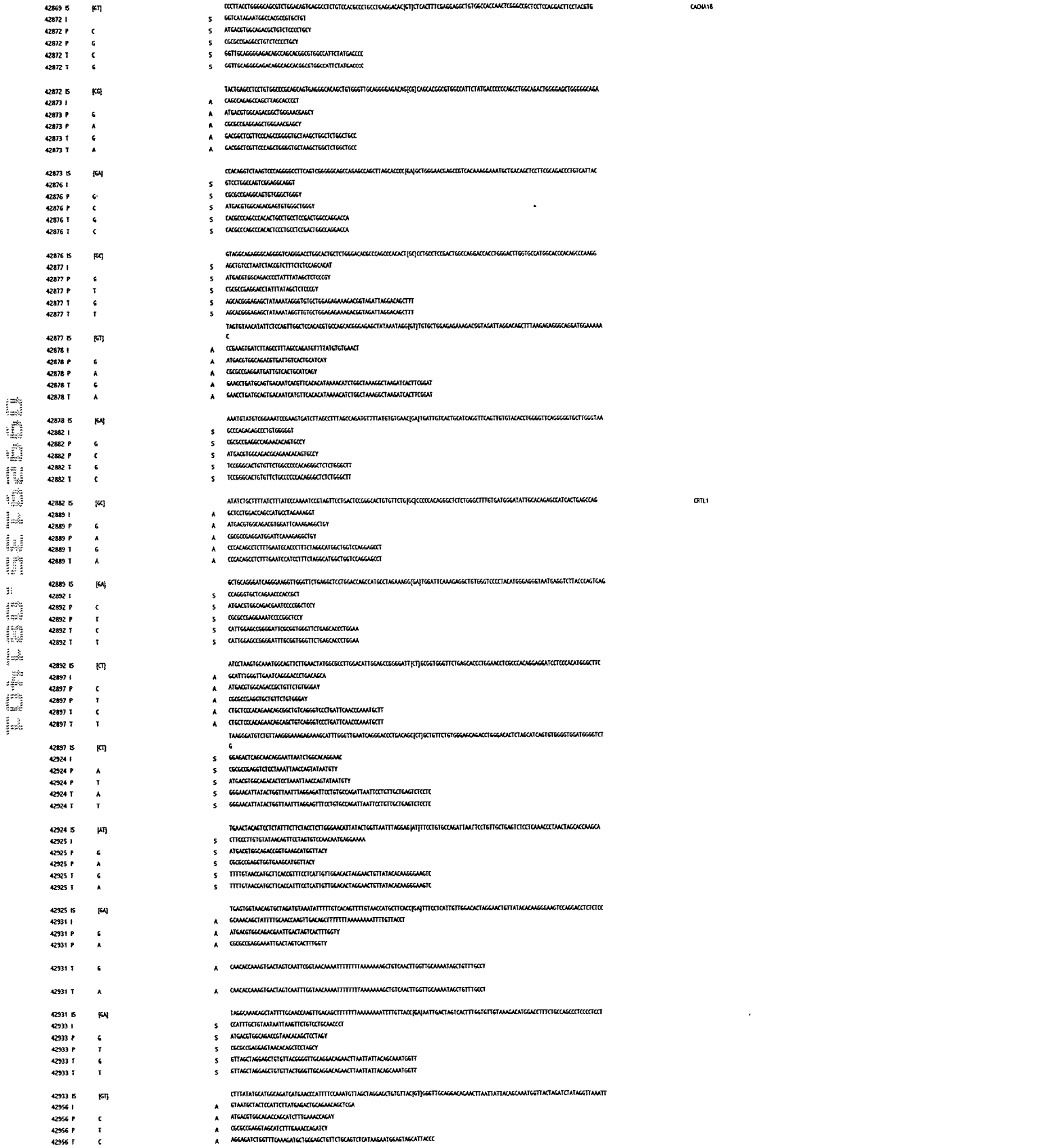


FIGURE 129F



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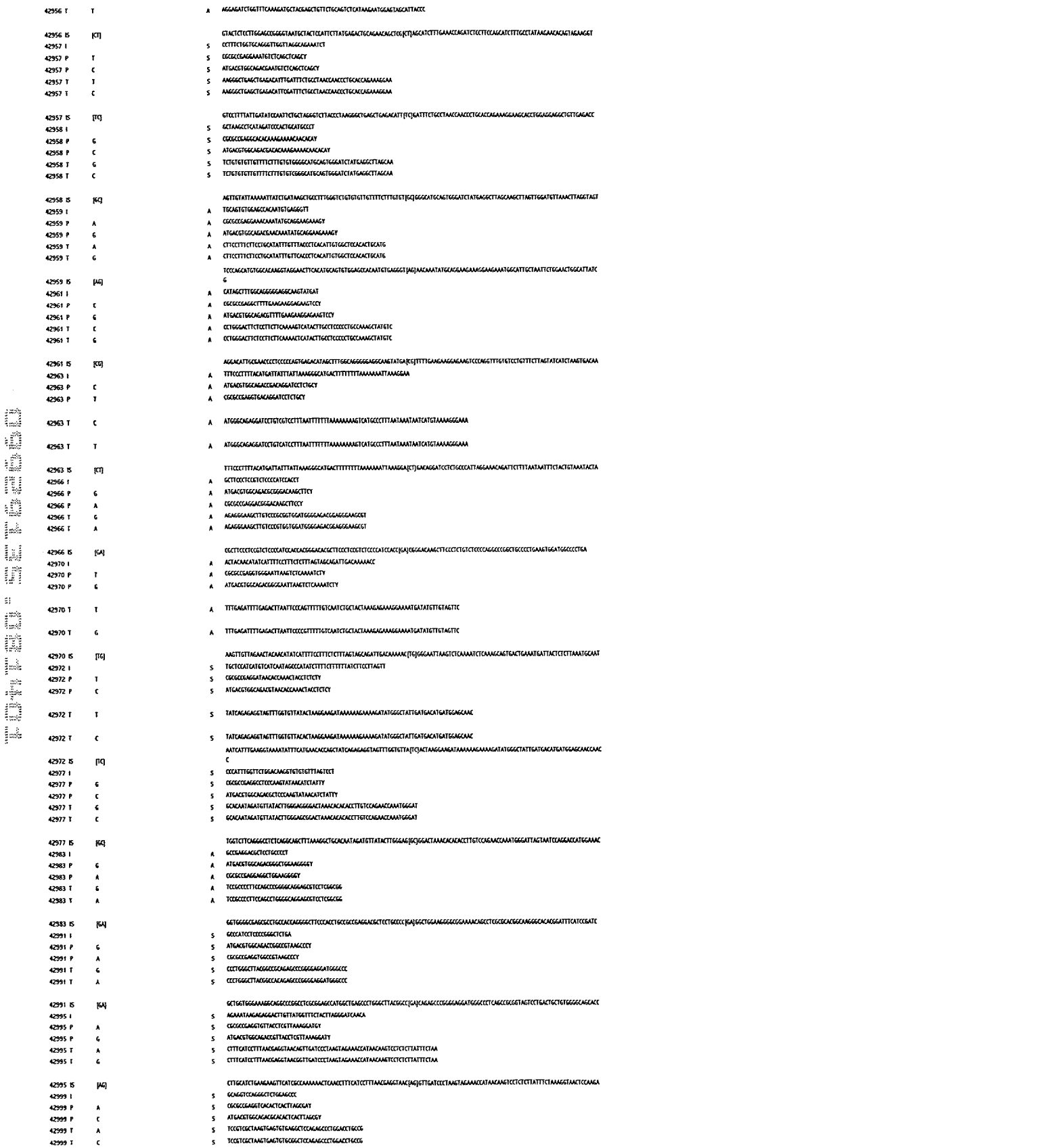
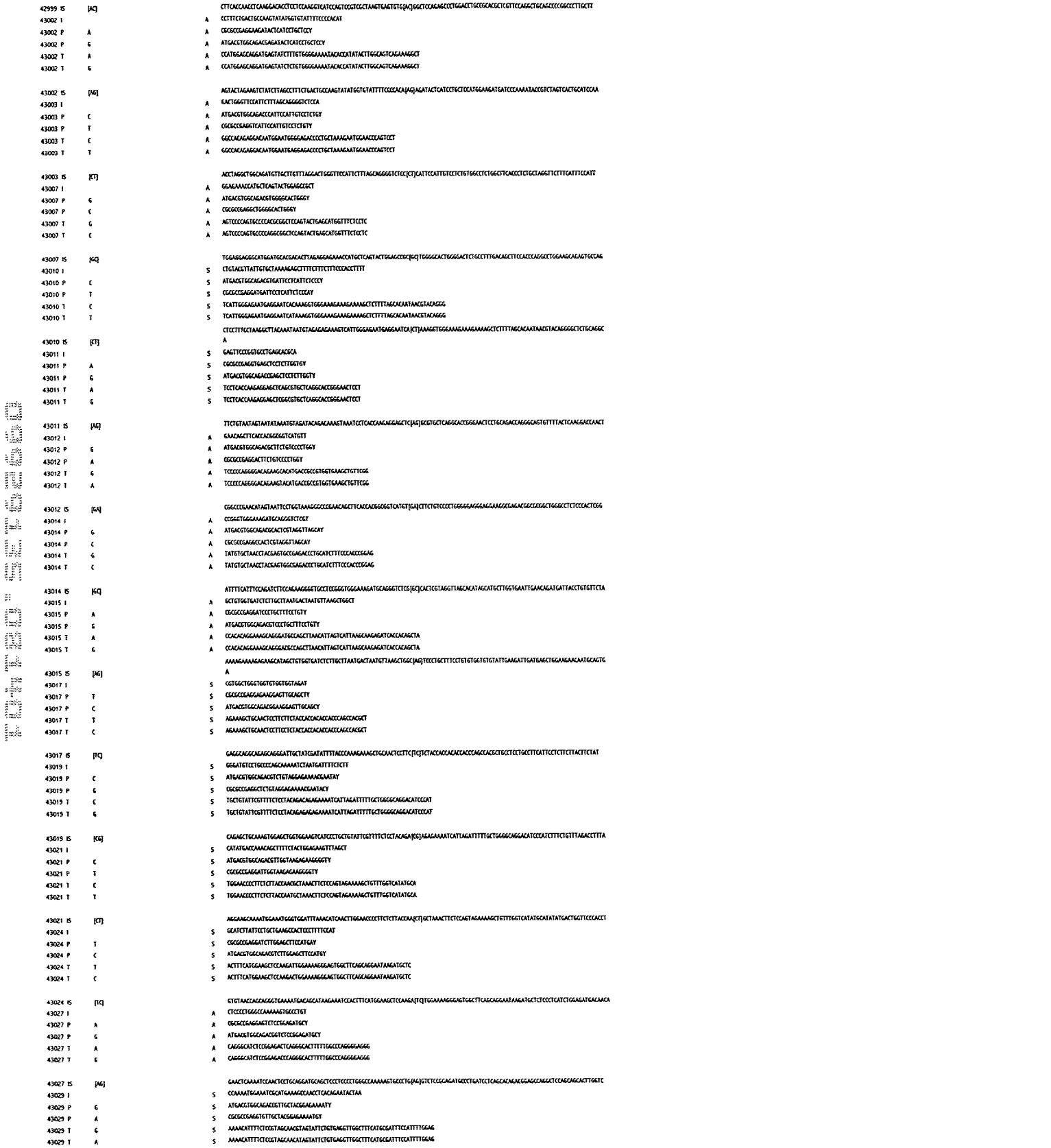

42956 T T A AGGAGATCTGGTTTCAAAGATGCTACGAGCTGTTCTGCAGTCTCATAAGAATGGAGTAGCATTACCC
42956 IS [CT] GTACTCTCCTTGGAGCCGGGGTAATGCTACTCCATTCTTATGAGACTGCAGAACAGCTCG[CT]AGCATCTTTGAAACCAGATCTCCTTCCAGCATCTTTGCCTATAAGAACACAGTAGAAGGT
42957 I S CCTTTCTGGTGCAGGGTTGGTTAGGCAGAAATCT
42957 P T S CGCGCCGAGGAAATGTCTCAGCTCAGCY
42957 P C S ATGACGTGGCAGACGAATGTCTCAGCTCAGCY
42957 T T S AAGGGCTGAGCTGAGACATTTGATTTCTGCCTAACCAACCCTGCACCAGAAAGGAA
42957 T C S AAGGGCTGAGCTGAGACATTCGATTTCTGCCTAACCAACCCTGCACCAGAAAGGAA
42957 IS [TC] GTCCTTTTATTGATATCCAATTCTGCTAGGGTCTTACCCTAAGGGCTGAGCTGAGACATT[TC]GATTTCTGCCTAACCAACCCTGCACCAGAAAGGAAGCACCTGGAGAGGAGCTGTTGAGACC
42958 I S GCTAAGCCTCATAGATCCCACTGCATGCCCT
42958 P G S CGCGCCCAGGCACACAAAGAAAACAACACAY
42958 P C S ATGACGTGGCAGACGACACAAGAAAACAACACAY
42958 T G S TCTGTGTGTTGTTTTCTTTGTGTGGGGCATGCAGTGGGATCTATGAGGCTTAGCAA
42958 T C S TCTGTGTGTTGTTTTCTTTGTGTCGGGGCATGCAGTGGGATCTATGAGGCTTAGCAA
42958 IS [GC] AGTTGTATTAAAAATTATCTGATAAGCTGCCTTTGGGTCTGTGTGTTGTTTTCTTTGTGT[GC]GGGCATGCAGTGGGATCTATGAGGCTTAGCAAGCTTAGTTGGATGTTAAACTTAGGTAGT
42959 I A TGCAGTGTGGAGCACAATGTGAGGGTT
42959 P A A CGCGCCGAGGAAACAAATATGCAGGAAGAAAGY
42959 P G A ATGACGTGGCAGACGAAACAAATATGCAGGAAGAAAGY
42959 T A A CTTCCTTTCTTCCTGCATATTTGTTTAACCTCACATTGTGGCTCCACACTGCATG
42959 T G A CTTCCTTTCTTCCTGCATATTTGTTCACCCTCACATTGTGGCTCCACACTGCATG
42959 IS [AG] TCCCAGCATGTGGCCACAAGGTAGGAACTTCACATGCAGTGTGGAGCACAATGTGAGGGT[AG]AACAAATATGCAGGAAGAAAGGAAGAAATGGCATTGCTAATTCTGGAACTGGCATTATC G
42961 I A CATAGCTTTGGCAGGGGCAGGCAAGTATGAT
42961 P C A CGCGCCGAGGCTTTTGAAGAAGGAGAAGTCCY
42961 P G A ATGACGTGGCAGAGGTTTTGAAGAAGGAGAAGTCCY
42961 T C A CCTGGGACTTCTCCTTCTTCAAAAGTCATACTTGCCTCCCCCTGCCAAAGCTATGTC
42961 T G A CCTGGGACTTCTCCTTCTTCAAAACTCATACTTGCCTCCCCCTGCCAAAGCTATGTC
42961 IS [CG] AGGACATTGCGAACCCCTCCCCCAGTGAGACATAGCTTTGGCAGGGGGAGGCAAGTATGA[CG]TTTTGAAGAAGGAGAAGTCCCAGGTTTGTGTGCCTGTTCTTAGTATCATCTAAGTGACAA
42963 I A TTTCCCTTTTACATGATTATTTATTAAAGGGCATGACTTTTTTTTAAAAAAATTAAAGGAA
42963 P C A ATGACGTGGCAGACGACAGGATCCTCTGCY
42963 P T A CGCGCCGAGGTGACAGGATCCTCTGCY
42963 T C A ATGGGCAGAGGATCCTGTCGTCCTTAATTTTTTTAAAAAAAAGTCATGCCCTTTAATAAATAATCATGTAAAAGGGAAA
42963 T T A ATGGGCAGAGGATCCTGTCATCCTTTAATTTTTTTAAAAAAAAGTCATGCCCTTTAATAAATAATCATGTAAAAGGGAAA
42963 IS [CT] TTTCCCTTTTACATGATTATTTATTAAAGGGCATGACTTTTTTTTAAAAAAATTAAAGGA[CT]GAAGAGATCCTCTCGCCCATTAGGAAACAGATTCTTTTAATAATTTCTACTGTAAATACTA
42966 I A GCTTCCCTCCGTCTCCCCATCCACCT
42966 P G A ATGACGTGGCAGACGCGGGACAAGCTTCY
42966 P A A CGCGCCGAGGACGGGACAAGCTTCCY
42966 T G A AGAGGGAAGCTTGTCCCGCGGTGGATGGGGAGACGGAGGGAAGCGT
42966 T A A AGAGGGAAGCTTGTCCCGTGGTGGATGGGGAGACGGAGGGAAGCGT
42966 IS [GA] CGCTTCCCTCCGTCTCCCCATCCACCACGGGAACACGCTTCCCTCCGTCTCCCCATCCACC[GA]CGGGACAAGCTTCCCTCTGTCTCCCCAGGCCCGGCTGCCCCTGAAGTGGATGGCCCCTGA
42970 I A ACTACAACATATCATTTTCCTTTCTCTTTAGTAGCAGATTGACAAAAACC
42970 P T A CGCGCCGAGGTGGGAATTAAGTCTCAAAATCTY
42970 P G A ATGACGTGGCAGACGGGGAATTAAGTCTCAAAATCTY
42970 T T A TTTGAGATTTTGAGACTTAATTCCCAGTTTTTGTCAATCTGCTACTAAAGAGAAAGGAAATGATATGTTGTAGTTC
42970 T G A TTTGAGATTTTGAGACTTAATTCCCCGTTTTTGTCAATCTGCTACTAAAGAGAAAGGAAATGATATGTTGTAGTTC
42970 IS [TG] AAGTTGTTAGAACTACAACATATCATTTTCCTTTCTCTTTAGTAGCAGATTGACAAAAAC[TG]GGGAATTAAGTCTCAAAATCTCAAAGCAGTGACTGAAATGATTACTCTCTTAAATGCAAT
42972 I S TGCTCCATCATGTCATCAATAGCCCATATCTTTCTCTTTTTATCTTCCTTTAGTT
42972 P T S CGCGCCGAGGATAACACCAAACTACCTCTCTY
42972 P C S ATGACGTGGCAGACGTAACACCAAACTACCTCTCY
42972 T T S TATCAGAGAGGTAGTTTGGTGTTATACTAAGGAAGATAAAAAAGAAAAGATATGGGCTATTGATGACATGATGGAGCAAC
42972 T C S TATCAGAGAGGTAGTTTGGTGTTACACTAAGGAAGATAAAAAAGAAAAGATATGGGCTATTGATGACATGATGGAGCAAC
42972 IS [TC] AATCATTTGAAGGTAAAATATTTCATGAACACCAGCTATCAGAGAGGTAGTTTGGTGTTA[TC]ACTAAGGAAGATAAAAAAGAAAAGATATGGGCTATTGATGACATGATGGAGCAACCAAC C
42977 I S CCCATTTGGTTCTGGACAAGGTGTGTGTTTAGTCCT
42977 P G S CGCGCCGAGGCCTCCCAAGTATAACATCTATTY
42977 P C S ATGACGTGGCAGACGCTCCCAAGTATAACATCTATTY
42977 T G S GCACAATAGATGTTATACTTGGGAGGGGACTAAACACACACCTTGTCCAGAACCAAATGGGAT
42977 T C S GCACAATAGATGTTATACTTGGGAGCGGACTAAACACACACCTTGTCCAGAACCAAATGGGAT
42977 IS [GC] TGGTCTTCAGGGCCTCTCAGGCAGCTTTAAAGGCTGCACAATAGATGTTATACTTGGGAG[GC]GGACTAAACACACACCTTGTCCAGAACCAAATGGGATTAGTAATCCAGGACCATGGAAAC
42983 I A GCCGAAGCAGGCTCCTGCCCCT
42983 P G A ATGACGTGGCAGACGGGCTGGAAGGGGY
42983 P A A CGCGCCGAGGAGGCTGGAAGGGGY
42983 T G A TCCGCCCCTTCCAGCCCGGGGCAGGAGCGTCCTCGGCGG
42983 T A A TCCGCCCCTTCCAGCCTGGGGCAGGAGCGTCCTCGGCGG
42983 IS [GA] GGTGGGGCGAAGCGCCTGCCACCAGGGGCTTCCCACCTGCCGCCGAGGACGCTCCTGCCCC[GA]GGCTGGAAGGGGCGGAAACAGCCTCGCGCACGGCAAGGGCACACGGATTTCATCCGATC
42991 I S GCCCATCCTCCCCGGGCTCTGA
42991 P G S ATGACGTGGCAGACGGGCGTAAGCCCY
42991 P A S CGCGCCGAGGTGGCCGTAAGCCCY
42991 T G S CCCTGGGCTTACGGCCCACAGACCCGGGGAGGATGGGCCC
42991 T A S CCCTGGGCTTACGGCCACAGACCCGGGGAGGATGGGCCC
42991 IS [GA] GCTGGTGGGAAAGGCGGCCCGGCTCGCGGAGGCCATGGCTGAGCCCTGGGCTTACGGCC[GA]CAGACCCGGGAGGATGGGCCCTCAGCCGCGGTAGTCCTGACTGCTGTGGGGCAGCACC
42995 I S AGAAATAAGAGAGAACTTGTTATGGTTTCTACTTAGGGATCAACA
42995 P A S CGCGCCCAGGTGTTACCTCGTTAAAGGATGY
42995 P G S ATGACGTGGCAGACGTTACCTCGTTAAAGGATY
42995 T A S CTTTCATCCTTTAACGAGGTAACAGTTGATCCCTAAGTAGAAACCATAACAAGTCCTCTCTTATTTCTAA
42995 T G S CTTTCATCCTTTAACGAGGTAACGGTTGATCCCTAAGTAGAAACCATAACAAGTCCTCTCTTATTTCTAA
42995 IS [AG] CTTGCATCTGAAGAAGTTCATCGCCAAAAAACTCAACCTTTCATCCTTTAACGAGGTAAC[AG]GTTGATCCCTAAGTAGAAACCATAACAAGTCCTCTCTTATTTCTAAAGGTAACTCCAAGA
42999 I S GCAGGTCCAGGGCTCTCGGAGCCC
42999 P A S CGCGCCGAGGTCACACTCACTTAGCGAT
42999 P C S ATGACGTGGCAGACGCACACTCACTTAGCGY
42999 T A S TCCGTCGCTAAGTGAGTGTGAGGCTCCAGAGCCCTGGACCTGCCG
42999 T C S TCCGTCGCTAAGTGAGTGTGCGGCTCCAGAGCCCTGGACCTGCCG

FIGURE 129F



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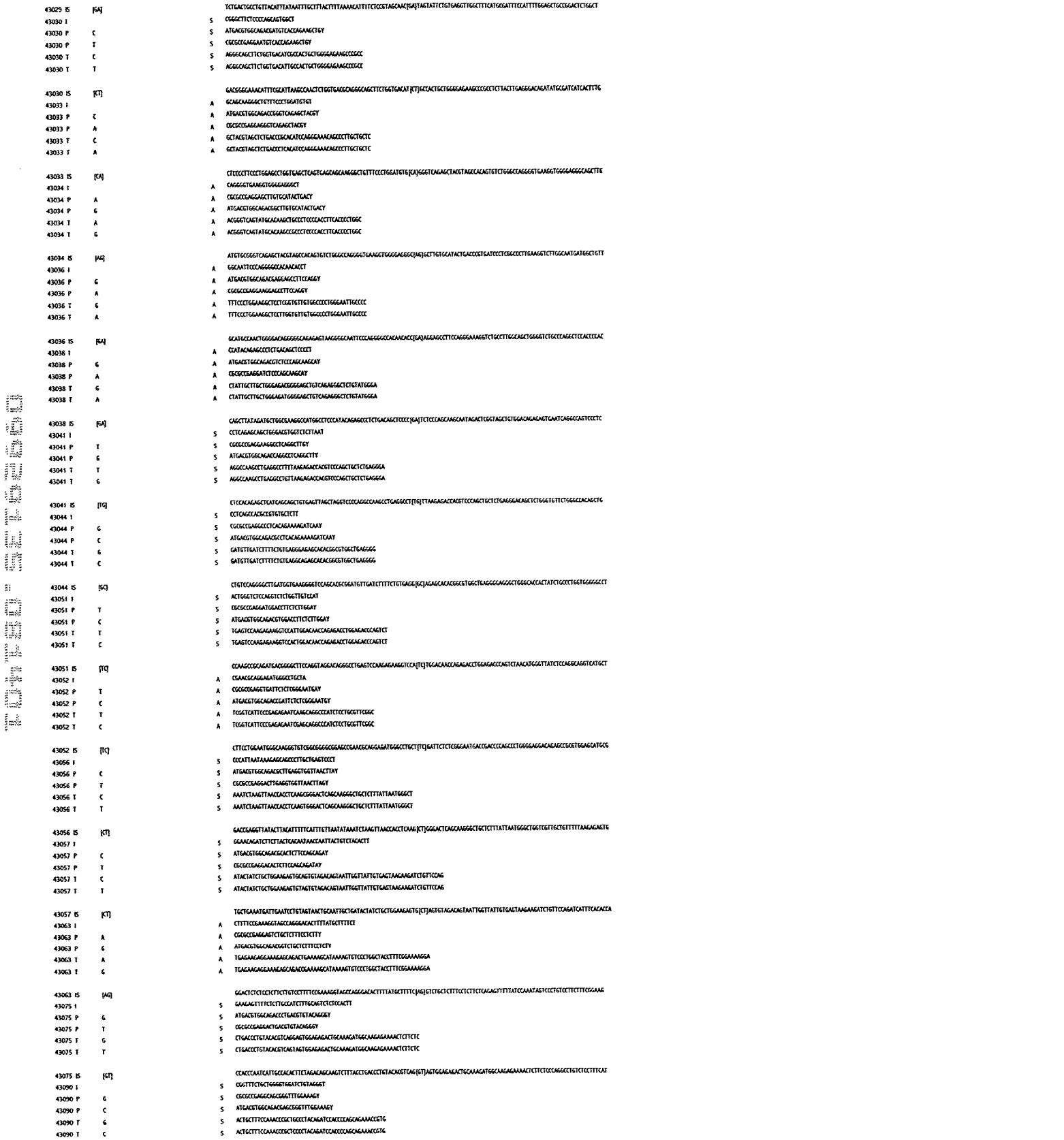


FIGURE 129F

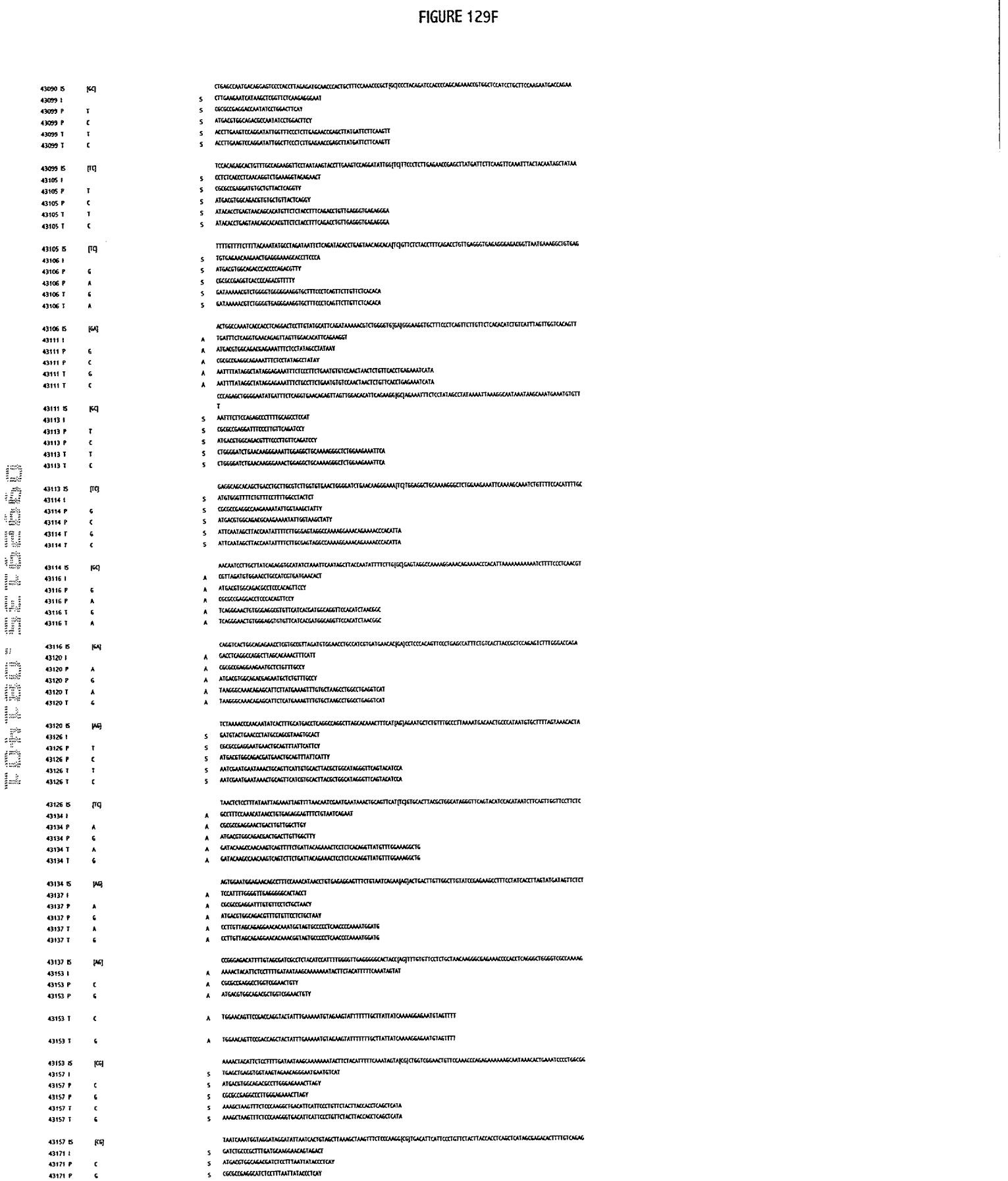
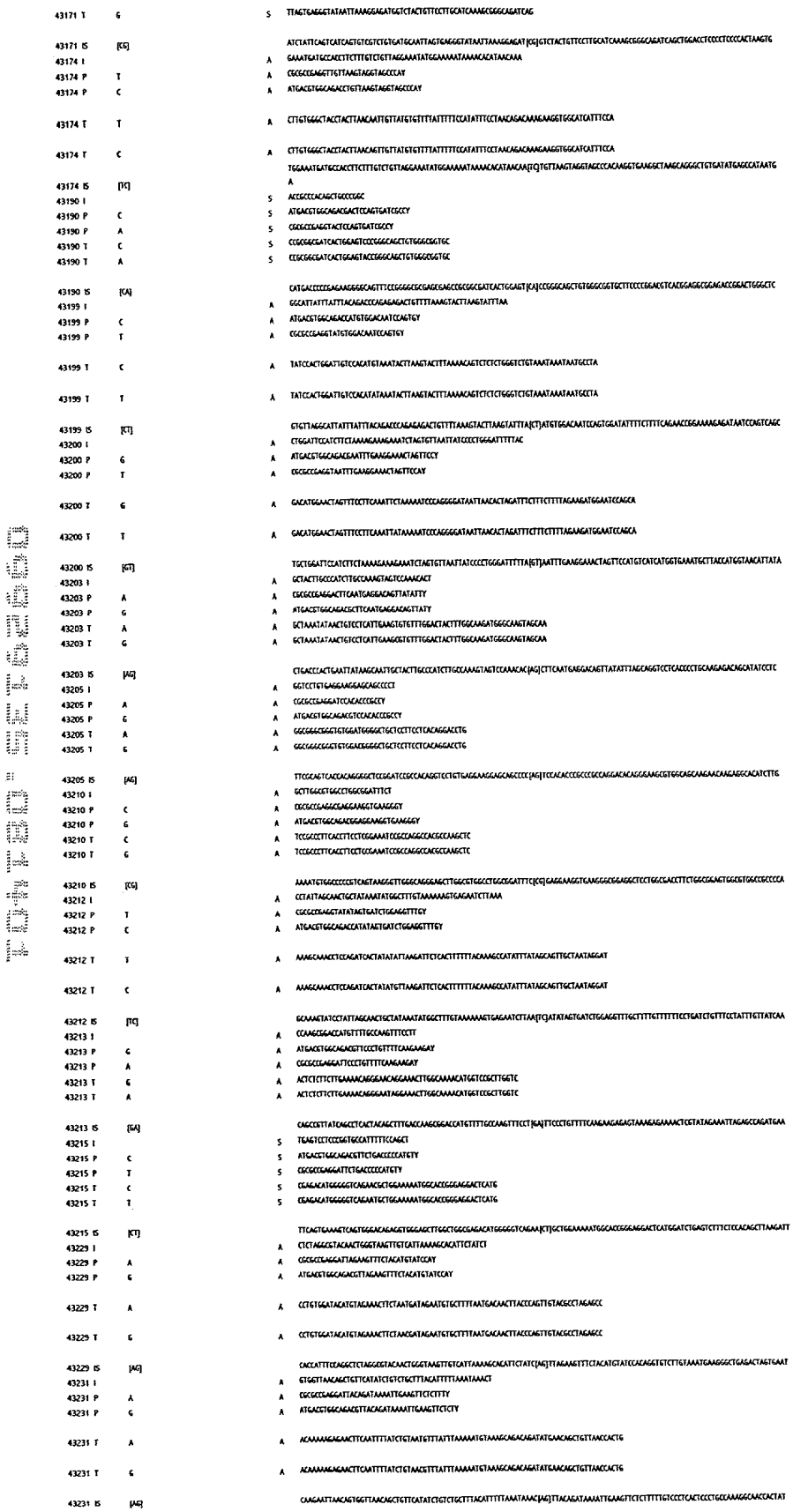


FIGURE 129F



Applicant's Docket No. 21592-0001CP1

FIGURE 129F

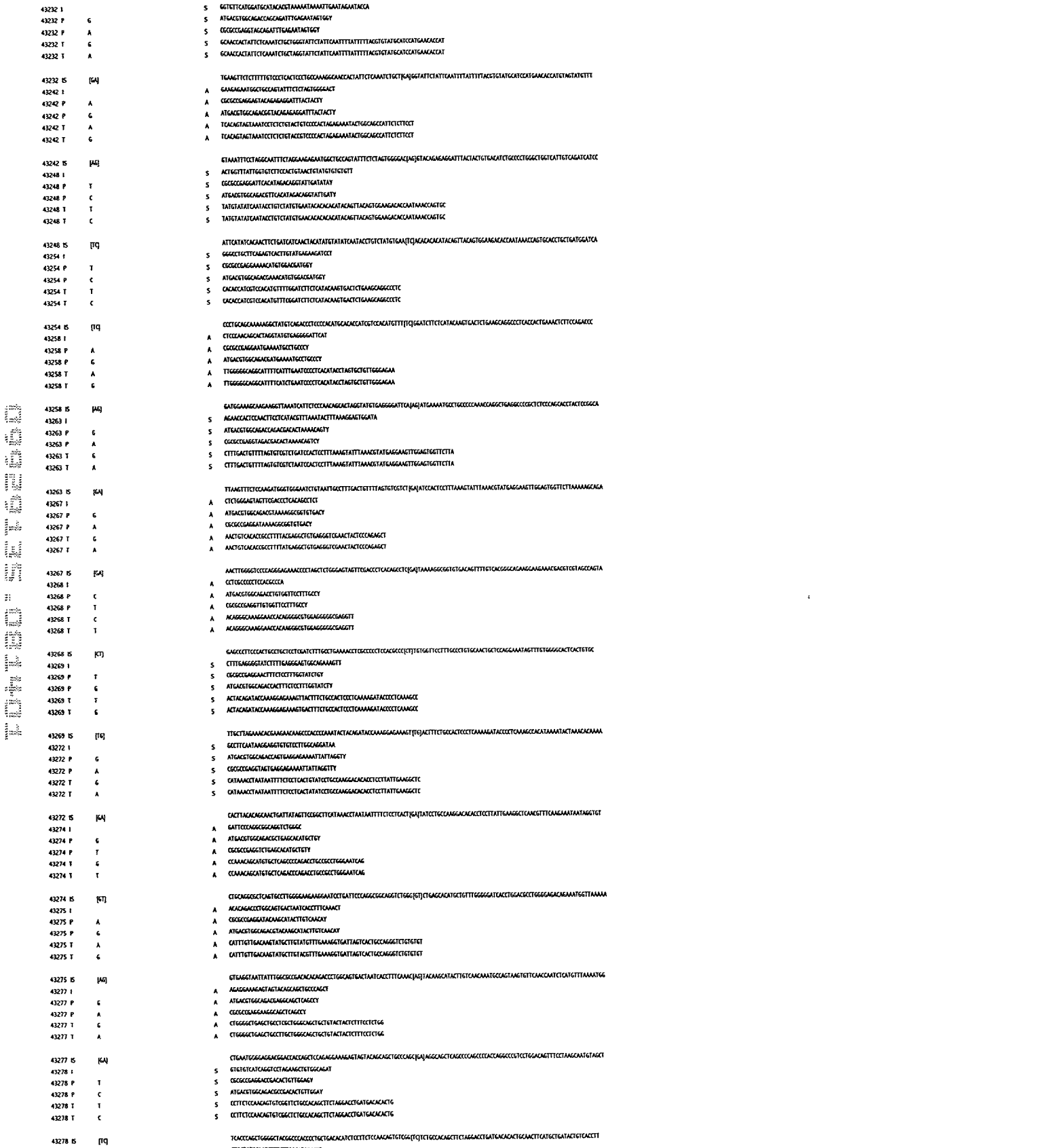
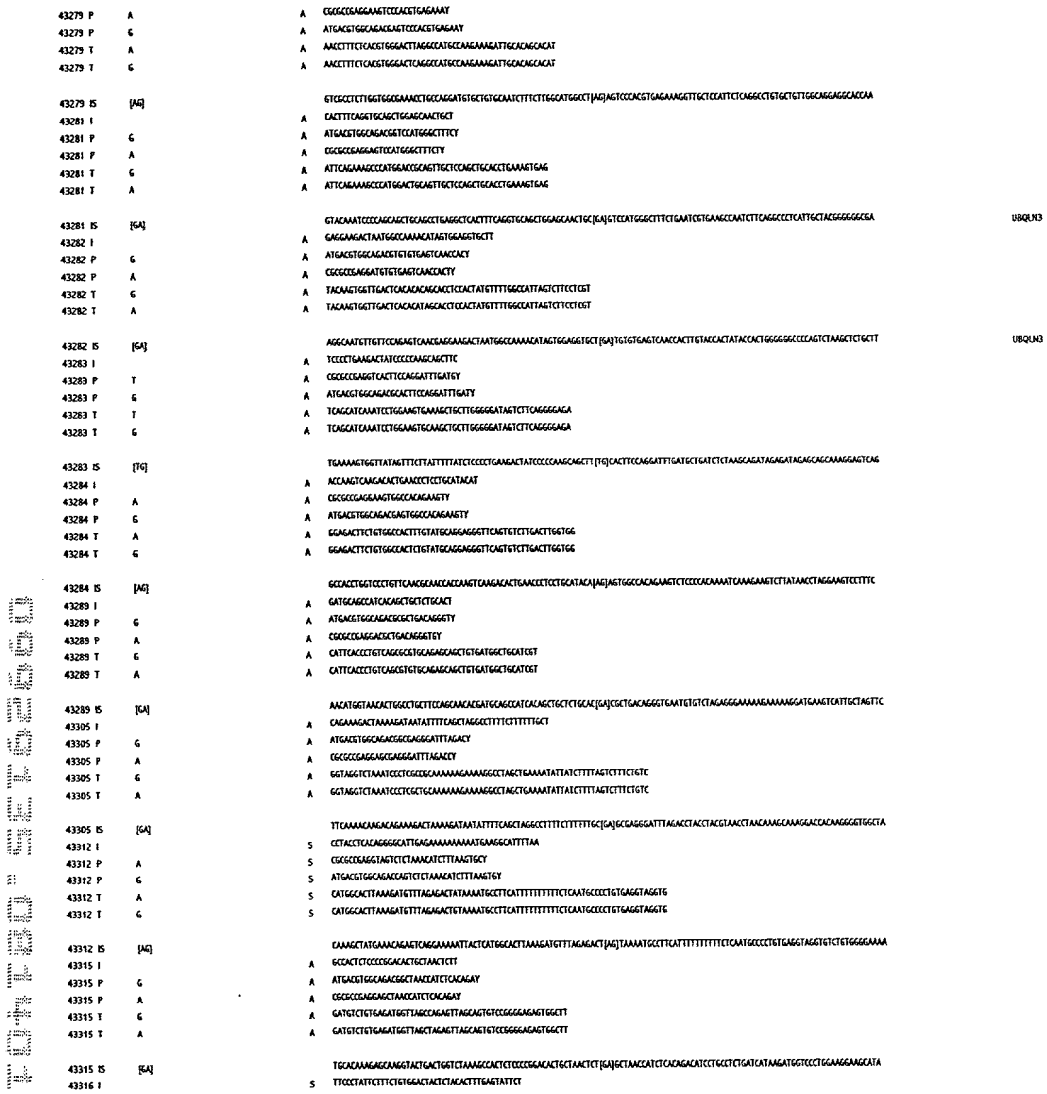


FIGURE 129F


43279 P A A CGCGCCGAGGAAGTCCCACGTGAGAAAT
43279 P G A ATGACGTGGCAGACAAGTCCCACGTGAGAAT
43279 T A A AACCTTTCTCACGTGGGACTTAGGCCATGCCAAGAAAGATTGCACAGCACAT
43279 T G A AACCTTTCTCACGTGGGACTCAGGCCATGCCAAGAAAGATTGCACAGCACAT
43279 IS [AG] GTCGCCTCTTGGTGGGCGAAACCTGCCAGGATGTGCTGTGCAATCTTTCTTGGCATGGCCT[AG]AGTCCCACGTGAGAAAGGTTGCTCCATTCTCAGGCCTGTGCTGTTGGCAGGAGGCACCAA
43281 I A CACTTTCAGGTGCAGCTGGAGCAACTGCT
43281 P G A ATGACGTGGCAGACGGTCCATGGGCTTTCY
43281 P A A CGCGCCGAGGAGTCCATGGGCTTTCTY
43281 T G A ATTCAGAAAGCCCATGGACCGCAGTTGCTCCAGCTGCACCTGAAAGTGAG
43281 T A A ATTCAGAAAGCCCATGGACTGCAGTTGCTCCAGCTGCACCTGAAAGTGAG
43281 IS [GA] GTACAAATCCCCAGCAGCTGCAGCCTGAGGCTCACTTTCAGGTGCAGCTGGAGCAACTGC[GA]GTCCATGGGCTTTCTGAATCGTGAAGCCAATCTTCAGCCCTCATTGCTACGGGGGCGA UBQLN3
43282 I A GAGGAAGACTAATGGCCAAACATAGTGGAGGTGCTT
43282 P G A ATGACGTGGCAGACGTGTGTGAGTCAACCACY
43282 P A A CGCGCCGAGGATGTGTGAGTCAACCACTY
43282 T G A TACAAGTGGTTGACTCACACACAGCACCTCCACTATGTTTTGGCCATTAGTCTTCCTCGT
43282 T A A TACAAGTGGTTGACTCACACATAGCACCTCCACTATGTTTTGGCCATTAGTCTTCCTCGT
43282 IS [GA] AGGCAATGTTGTTCCNGAGTCAACGAGCAAGAACTAATGGCCAAAACATAGTGGAGGTGCT[GA]TGTGTGAGTCAACCACTTGTACCACTATACCACTGGGGGGCCCCAGTCTAAGCTCTGCTT UBQLN3
43283 I A TCCCCTGAAGACTATCCCCCAAGCAGCTTC
43283 P T A CGCGCCCAAGGTCACTTCCAGGATTTGATGY
43283 P G A ATGACGTGGCAGACGCACTTCCAGGATTTGATY
43283 T T A TCAGCATCAAATCCTGGAAGTGAAAGCTGCTTGGGGGATAGTCTTCAGGGGAGA
43283 T G A TCAGCATCAAATCCTGGAAGTGCAAGCTGCTTGGGGGATAGTCTTCAGGGGAGA
43283 IS [TG] TGAAAAGTGGTTATAGTTTCTTATTTTTATCTCCCCTGAAGACTATCCCCCAAGCAGCTT[TG]CACTTCCAGGATTTGATGCTGATCTCTAAGCAGATAGAGATAGAGCAGCAAAGGAGTCAG
43284 I A ACCAAGTCAGCACACTGAACCCTCCTGCATACAT
43284 P A A CGCGCCGAGGAAGTGGCCACAGAAGTY
43284 P G A ATGACGTGGCAGACGAGTGGCCACAGAAGTY
43284 T A A GGAGACTTCTGTGGCCACTTTGTATGCAGGAGGGTTCAGTGTCTTGACTTGGTGG
43284 T G A GGAGACTTCTGTGGCCACTCTGTATGCAGGAGGGTTCAGTGTCTTGACTTGGTGG
43284 IS [AG] GCCACCTGGTCCCTGTTCAACGCAACCACCAAGTCAAGACACTGAACCCTCCTGCATACA[AG]AGTGGCCACAGAAGTCTCCCCACAAAATCAAAGAAGTCTATAACCTAGGAAGTCCTTTC
43289 I A GATGCAGCCATCACAGCTGCTCTGCACT
43289 P G A ATGACGTGGCAGACGCGCTGACAGGGTY
43289 P A A CGCGCCGAGCACGCTGACAGGGTGY
43289 T G A CATTCACCCTGTCAGCGCTGCAGAGCAGCTGTGATGGCTGCATCGT
43289 T A A CATTCACCCTGTCAGCGTGTGCAGAGCAGCTGTGATGGCTGCATCGT
43289 IS [GA] AACATGGTAACACTGGCCTGCTTCCAGCAACACATGATGCAGCCATCACAGCTGCTCTGCAC[GA]CGCTGACAGGGTGAATGTGTCTACAGAGGGAAAAAGAAAAAGGATGAAGTCATTGCTAGTTC
43305 I A CAGAAAGACTAAAAGATAATATTTTCAGCTAGGCCTTTTCTTTTTTGCT
43305 P G A ATGACGTGGCAGACGGCGAGGGATTTAGACY
43305 P A A CGCGCCGAGGAGCGAGGGATTTAGACCY
43305 T G A GGTAGGTCTAAATCCCTCGCCGCAAAAAAGAAAAAGGCCTAGCTGAAAATATTATCTTTTAGTCTTTCTGTC
43305 T A A GGTAGGTCTAAATCCCTCGCTGCAAAAAAGAAAAAGGCCTAGCTGAAAATATTATCTTTTAGTCTTTCTGTC
43305 IS [GA] TTCAAAACAAGACAGAAAAGACTAAAAGATAATATTTTCAGCTAGGCCTTTTCTTTTTTGC[GA]GCGAGGGATTTAGACCTACCTACGTAACCTAACAAAGCAAAGGAACCACAAGGGGTGGCTA
43312 I S CCTACCTCACAGGGGCATTGAGAAAAAAAAATGAAGGCATTTTAA
43312 P A S CGCGCCGAGGTAGTCTCTAAACATCTTTAAGTGCY
43312 P G S ATGACGTGGCAGACCAGTCTCTAAACATCTTTAAGTGY
43312 T A S CATGGCACTTAAAGATGTTTAGAGACTATAAAATGCCTTCATTTTTTTTTTCTCAATGCCCCTGTGAGGTAGGTG
43312 T G S CATGGCACTTAAAGATGTTTAGAGACTGTAAAATGCCTTCATTTTTTTTTTCTCAATGCCCCTGTGAGGTAGGTG
43312 IS [AG] CAAAGCTATGAAACAGAGTCAGGAAAAATTACTCATGGCACTTAAAGATGTTTAGAGACT[AG]TAAAATGCCTTCATTTTTTTTTTCTCAATGCCCCTGTGAGGTAGGTGTCTGTGGGGAAAA
43315 I A GCCACTCTCCCCGCACACTGCTAACTCTT
43315 P G A ATGACGTGGCAGACGGCTAACCATCTCACAGAY
43315 P A A CGCGCCGAGGAGCTAACCATCTCACAGAY
43315 T G A GATGTCTGTGAGATGGTTAGCCAGAGTTAGCAGTGTCCGGGGAGAGTGGCTT
43315 T A A GATGTCTGTGAGATGGTTAGCTAGAGTTAGCAGTGTCCGGGGAGAGTGGCTT
43315 IS [GA] TGCACAAAGAGCAAGGTACTGACTGGTCTAAAGCCACTCTCCCCGGACACTGCTAACTCT[GA]GCTAACCATCTCACAGACATCCTGCCTCTGATCATAAGATGGTCCCTGGAAGGAAGCATA
43316 I S TTCCCTATTCCTTCTGTGGACTACTCTACACTTTGAGTATTCT
43316 P C S ATGACGTGGCAGACGTTGCATGGCTTGCAY
43316 P T S CGCGCCGAGGAGTTGCATGGCTTGCAAY
43316 T C S GATCTTGCAAGCCATGCAACGAATACTCAAAGTGTAGAGTAGTCCACAGAAAGAATAGGGAAAA
43316 T T S GATCTTGCAAGCCATGCAATGAATACTCAAAGTGTAGAGTAGTCCACAGAAAGAATAGGGAAAA
43316 IS [CT] TCTAGGAGACTCTGGGTTTTAAGGAGTCAGCATCTAAAAGTGATCTTGCAAGCCATGCAA[CT]GAATACTCAAAGTGTAGAGTAGTCCACAGAAAGAATAGGGAAAACCTAACATTTCTGTAA
43323 I S GCCGGCACTTAAAGGAAAAGGAACCTTCGTGACT
43323 P T S CGCGCCGAGGAGACCGGGAAATACCAGY
43323 P C S ATGACGTGGCAGACGGACCGGGAAATACCAY
43323 T T S GCTCCTGGTATTTCCCGGTCTGTCAGGAAGGTCCTTTTCCTTTAAGTGCCGGCCA
43323 T C S GCTCCTGGTATTTCCCGGTCCGTCAGGAAGGTCCTTTTCCTTTAAGTGCCGGCCA
43323 IS [TC] GTCCTGAAATGAGGTGGTCACCCCTGACCAGGGGGCTTTGGCTCCTGGTATTTCCCGGTC[TC]GTCACGAAGGTCCTTTTCCTTTAAGTGCCGGCCAGAGCCTGAGGCTCCGACGGAGCCCC
43325 I S CCGAGGTGCGGCTGGAGGAAGGC
43325 P C S ATGACGTGGCAGACGGCATCCTGTACCCAY
43325 P A S CGCGCCGAGGTGCATCCTGTACCCAGY
43325 T C S GCCGCTGGGTACAGGATGCCCCTTCCTCCAGCCGCACCTCGGGC
43325 T A S GCCGCTGGGTACAGGATGCACCTTCCTCCAGCCGCACCTCGGGC
43325 IS [CA] CGCCGACCGGGGGAGAAGGTCACGCACACTGGCCAGGTAACGGCCGCTGGGTACAGGATGC[CA]CCTTCCTCCAGCCGCACCTCGGGCCACTGGTGGCAGTGGGCTCGCCGGCATCCGCGGCC
43327 I A CCTGCGTCCTATCTGAGCGGGCTCTT
43327 P A A CGCGCCGAGGAGCCCACAGGAGCTY
43327 P G A ATGACGTGGCAGACGCCCCACAGGAGCY
43327 T A A TAGAAGCTCCTGTGGGGTACAGCCCGCTCAGATAGGACGCAGGGG
43327 T G A TAGAAGCTCCTGTGGGGCAGAGCCCGCTCAGATAGGACGCAGGGG
43327 IS [AG] CAGGTAACAGCGGAACTAGGGGACCTCTCCTCGCCCCTGCGTCCTATCTGAGCGGGCTCT[AG]CCCCACAGGAGCTTCTATCCGTCCTGAGGCCTCTCCGCTCCCGCATCCCACTTCGCTCCT
43338 I A GCACTGCTATTTCCCCTTCTGCTTTGCTTGGTTCT
43338 P A A CGCGCCGAGGATTCTTACTGACCCTCCAAY
43338 P G A ATGACGTGGCAGACGTTCTTACTGACCCTCCAY
43338 T A A GTATTTGGAGGGTCAGTAAGAATGAACCAAGCAAAGCAGAAGGGGAAATAGCAGTGCAA
43338 T G A GTATTTGGAGGGTCAGTAAGAACGAACCAAGCAAAGCAGAAGGGGAAATAGCAGTGCAA
43338 IS [AG] CACACTCTTTCCAGTCAAGGGGTCTTGCACTGCTATTTCCCCTTCTGCTTTGCTTGGTTC[AG]TTCTTACTGACCCTCCAAATACTGAAGGAATGAATGCGAGAAATAAGTAAATGAGAGATGT
43345 I S ACTTCTGGGAAGACATCCCTTTCTTAGGCGCTT
43345 P T S CGCGCCGAGGATCTTCTGGTTTGGGTTTGY

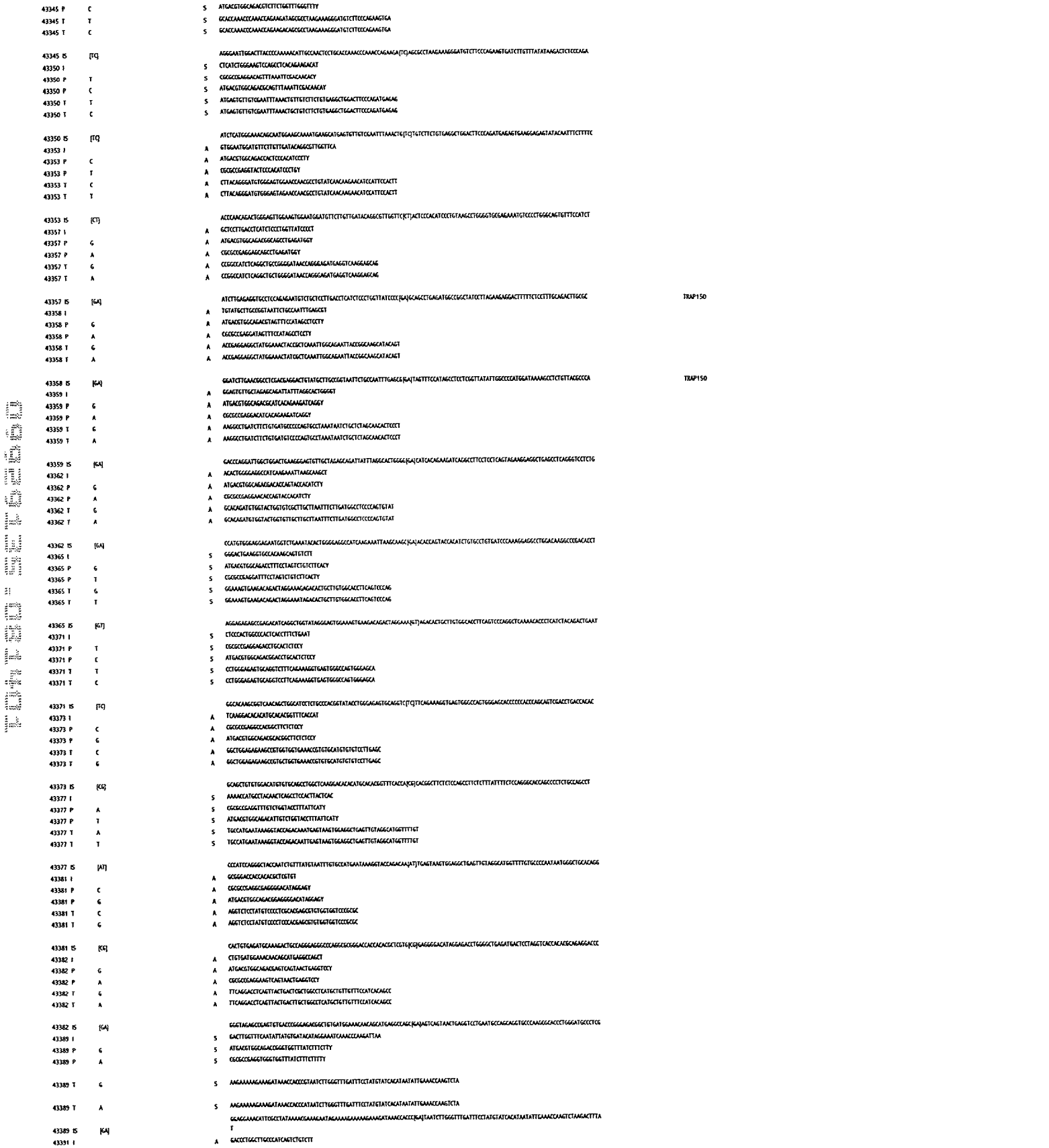
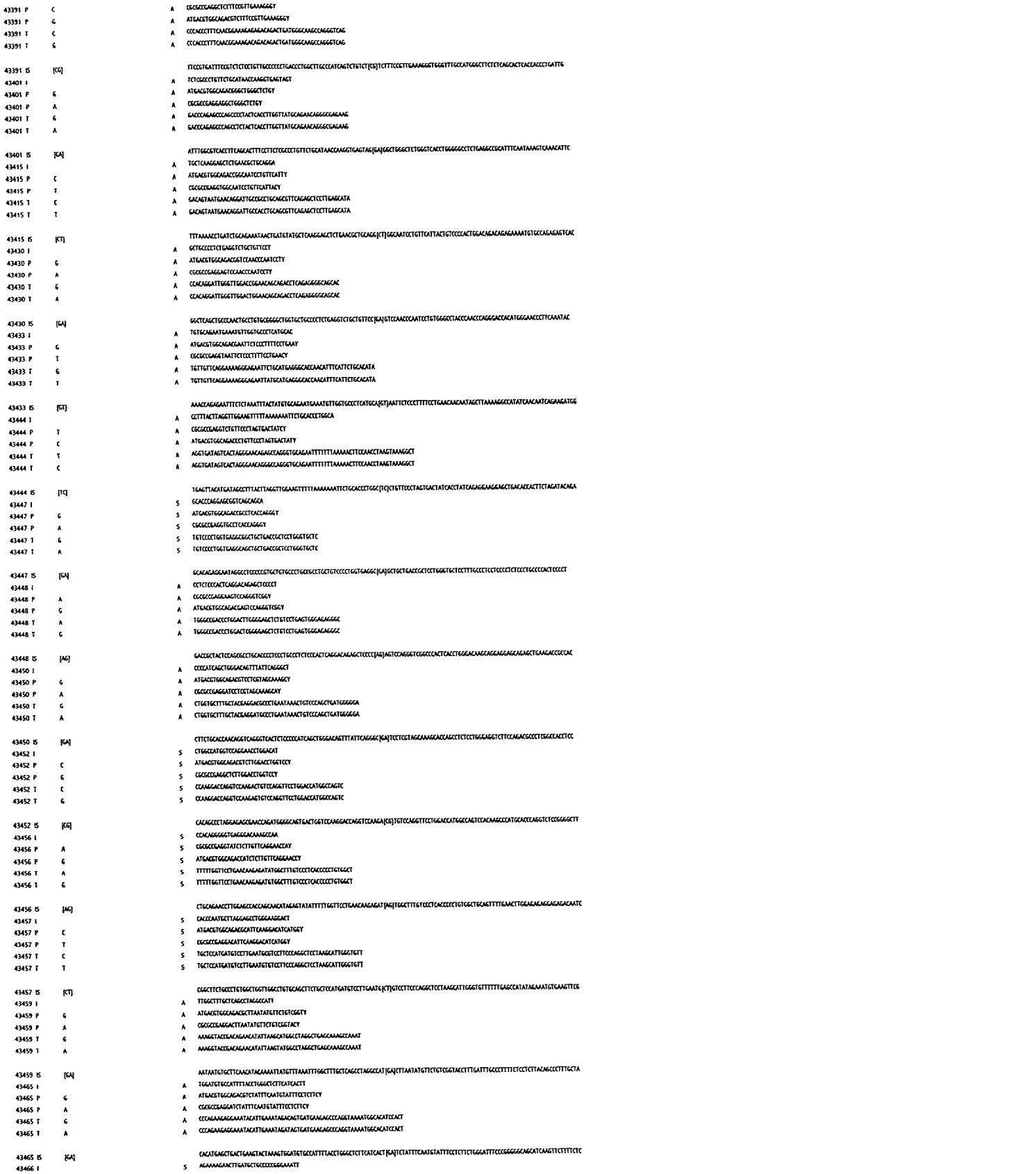

43345 P C S ATGACGTGGCAGACGTCTCTCTGGTTTGGGTTTY
43345 T T S GCACCAAACCCAAACCAGAAGATAGCGCCTAAGAAAGGGATGTCTTCCCAGAAGTGA
43345 T C S GCACCAAACCCAAACCAGAAGACAGCGCCTAAGAAAGGGATGTCTTCCCAGAAGTGA
43345 IS [TC] AGGGAATTGGACTTACCCCAAAAACATTGCCAACTCCTGCACCAAACCCAAACCAGAAGA[TC]AGCGCCTAAGAAAGGGATGTCTTCCCAGAAGTGATCTTGTTTATATAAGACTCTCCCAGA
43350 I S CTCATCTGGGAAGTCCAGCCTCACAGAAGACAT
43350 P T S CGGCCCAGGACAGTTTAAATTCGACAACACY
43350 P C S ATGACGTGGCAGACGCAGTTTAAATTCGACAACAY
43350 T T S ATGAGTGTTGTCGAATTTAAACTGTTGTCTCTCTGTGAGGCTGGACTTCCCAGATGAGAG
43350 T C S ATGAGTGTTGTCGAATTTAAACTGCTGTCTTCTGTGAGGCTGGACTTCCCAGATGAGAG
43350 IS [TC] ATCTCATGGGAAACAGCAATGGAAGCAAAATGAAGCATGAGTGTTGTCGAATTTAAACTG[TC]TGTCTTCTGTGAGGCTGGACTTCCAGATGAGAGTGAAGGAGAGTATACAATTTCTTTTC
43353 I A GTGGAATGGATGTTCTTGTTGATACAGGCGTTGGTTCA
43353 P C A ATGACGTGGCAGACCACTCCCACATCCCTY
43353 P T A CGCGCCGAGGTACTCCCACATCCCTGY
43353 T C A CTTACAGGGATGTGGGAGTGGAACCAACGCCTGTATCAACAAGAACATCCATTCCACTT
43353 T T A CTTACAGGGATGTGGGAGTAGAACCAACGCCTGTATCAACAAGAACATCCATTCCACTT
43353 IS [CT] ACCCAACAGACTGGGAGTTGGAAGTGGAATGGATGTTCTTGTTGATACAGGCGTTGGTTC[CT]ACTCCCACATCCCTGTAAGCCTGGGGTGCGAGAAATGTCCCCTGGGCAGTGTTTCCATCT
43357 I A GCTCCTTGACCTCATCTCCCTGGTTATCCCCT
43357 P G A ATGACGTGGCAGACGGCAGCCTGAGATGGY
43357 P A A CGCGCCGAGGAGCAGCCTGAGATGGY
43357 T G A CCGGCCATCTCAGGCTGCTGGGGATAACCAGGGAGATGAGGTCAAGGAGCAG
43357 T A A CCGGCCATCTCAGGCTGCTGGGGATAACCAGGGAGATGAGGTCAAGGAGCAG
43357 IS [GA] ATCTTGAGAGGTGCCTCCAGAGAATGTCTGCTCCTTGACCTCATCTCCCTGGTTATCCCC[GA]GCAGCCTGAGATGGCCGGCTATCCTTAGAAGAGGACTTTTTCTCCTTTGCAGACTTGCGC TRAP150
43358 I A TGTATGCTTGCCGGTAATTCTGCCAATTTGAGCGT
43358 P G A ATGACGTGGCAGACGCATCACAGAAGATCAGGY
43358 P A A CGCGCCGAGGAGCAGCCTGAGATGGY
43358 T G A ACCGAGGAGGCTATGGAAACTACCGCTCAAATTGGCAGAATTACCGGCAAGCATACAGT
43358 T A A ACCGAGGAGGCTATGGAAACTATCGCTCAAATTGGCAGAATTACCGGCAAGCATACAGT
43358 IS [GA] GGATCTGAACGGCCTCGACGAGGACTGTATGCTTGCCGGTAATTCTGCCAATTTGAGC[GA]TAGTTTCCATAGCCTCCTCGGTTATATTGGCCCCATGGATAAAAGCCTCTGTTACGCCCA TRAP150
43359 I A GGAGTGTTGCTAGAGCAGATTATTTAGGCACTGGGGT
43359 P G A ATGACGTGGCAGACGCATCACAGAAGATCAGGY
43359 P A A CGCGCCGAGGAGCATCACAGAAGATCAGGY
43359 T G A AAGGCCTGATCTTCTGTGATGTCCCCAGTGCCTAAATAATCTGCTCTAGCAACACTCCCT
43359 T A A AAGGCCTGATCTTCTGTGATGTCCCCAGTGCCTAAATAATCTGCTCTAGCAACACTCCCT
43359 IS [GA] GACCCAGGATTGGCTGGACTCAAGGGAGTGTTGCTAGAGCAGATTATTTAGGCACTGGGG[GA]CATCACAGAAGATCAGGCCTTCCTCCTCAGTAGAAGGAGGCTGAGCCTCAGGGTCCTCTG
43362 I A ACACTGGGGAGGCCATCAAGAAATTAAGCAAGCT
43362 P G A ATGACGTGGCAGAGGACACCAGTACCACATCTY
43362 P A A CGCGCCGAGGAACACCAGTACCACATCTY
43362 T G A GCACAGATGTGGTACTGGTGTGGCTTGCTTAATTTCTTGATGGCCTCCCCAGTGTAT
43362 T A A GCACAGATGTGGTACTGGTGTTGCTTGCTTAATTTCTTGATGGCCTCCCCAGTGTAT
43362 IS [GA] CCATGTGGGAGGAGAATGGTCTGAAATACACTGGGGAGGCCATCAAGAAATTAAGCAAGC[GA]ACACCAGTACCACATCTGTGCCTGTGATCCCAAGGAGGCCTGGACAAGCCCGACACCT
43365 I S GGGACTGAAGGTGCCACAAGCAGTGTCTT
43365 P G S ATCACGTGGCAGAACCTTCCTAGTCTGTCTTCACY
43365 P T S CGCGCCGAGGATTTCCTAGTCTGTCTTCACTY
43365 T G S GCAAAGTGAAGACAGACTAGGAAAGAGACACTGCTTGTGGCACCTTCAGTCCCAG
43365 T T S GCAAAGTGAAGACAGACTAGGAAATAGACACTGCTTGTGGCACCTTCAGTCCCAG
43365 IS [GT] AGGAGAGAGCCGAGACATCAGGCTGGTATAGGGAGTGGAAAGTGAAGACAGACTAGGAAA[GT]AGACACTGCTTGTGGCACCTTCAGTCCCAGGCTCAAAACACCCTCATCTACAGACTGAAT
43371 I S CTCCCACTGGCCCACTCACCTTTCTGAAT
43371 P T S CGCGCCGAGGAGACCTGCACTCTCCY
43371 P C S ATGACGTGGCAGACGCACCTGCACTCTCCY
43371 T T S CCTGGGAGAGTGCAGGTCTTTCAGAAAGGTGAGTGGGCCAGTGGGAGCA
43371 T C S CCTGGGAGAGTGCAGGTCCTTCAGAAAGGTGAGTGGGCCAGTGGGAGCA
43371 IS [TC] GGCACAAGCGGTCAACAGCTGGCATCCTCTGCCCACGGTATACCTGGCAGAGTGCAGGTC[TC]TTCAGAAAGGTGAGTGGCCAGTGGGAGCACCCCCCACCCAGCAGTCGACCTGACCACAC
43373 I A TCAAGGACACACATGCACACGGTTTCACCAT
43373 P C A CGCGCCGAGGCCACGGCTTCTCTCCY
43373 P G A ATGACGTGGCAGACGCACGGCTTCTCTCCY
43373 T C A GGCTGGAGAGAAGCCGTGGTGGTGAAACCGTGTGCATGTGTGTCCTTGAGC
43373 T G A GGCTGGAGAGAAGCCGTGCTGGTGAAACCGTGTGCATGTGTGTCCTTGAGC
43373 IS [CG] GCAGCTGTGTGGCACATGTGTGCAGCCTGGCTCAAGGACACACATGCACACGGTTTCACCA[CG]CACGGCTTCTCTCCAGCCTTCTCTTTATTTTCTCCAGGGCACCAGCCCCTCTGCCAGCCT
43377 I S AAAACCATGCCTACAACTCAGCCTCCACTTACTCAC
43377 P A S CGCGCCCAGGTTTGTCTGGTACCTTTATTCATY
43377 P T S ATGACGTGGCAGACATTGTCTGGTACCTTTATTCATY
43377 T A S TGCCATGAATAAAGGTACCAGACACAAATGAGTAAGTGGAGGCTGAGTTGTAGGCATGGTTTTGT
43377 T T S TGCCATGAATAAAGGTACCAGACACAATTGAGTAAGTGGAGGCTGAGTTGTAGGCATGGTTTTGT
43377 IS [AT] CCCATCCAGGGCTACCAATCTGTTTATGTAATTTGTGCCATGAATAAAGGTACCAGACAA[AT]TGAGTAAGTGGAGGCTGAGTTGTAGGCATGGTTTTGTGCCCCAATAATGGGCTGCACAGG
43381 I A GCGGGACCACCACACGCTCGTGT
43381 P C A CGCGCCGAGGCGAGGGGACATAGGAGY
43381 P G A ATGACGTGGCAGACGGAGGGGACATAGGAGY
43381 T C A AGGTCTCCTATGTCCCCTCGCAGGAGGGTGTGGTGGTCCCGCGC
43381 T G A AGGTCTCCTATGTCCCCTCCACGAGGGTGTGGTGGTCCCGCGC
43381 IS [CG] CACTGTGAGATGCAAAGACTGCCAGGGCAGGCCCAGGCGCGGGACCACCACACGCTCGTG[CG]GAGGGGACATAGGAGACCTGGGGCTGAGATGACTCCTAGGTCACCACACGCAGAGGACCC
43382 I A CTGTGATGCAAACACAGCATGAGGCCAGT
43382 P G A ATGACGTGGCAGACGAGTCAGTAACTGAGGTCCY
43382 P A A CGCGCCCAGGAAGTCAGTAACTGAGGTCCY
43382 T G A TTCAGGACCTCAGTTACTGACTCGCTGGCCTCATGCTGTTGTTTCCATCACAGCC
43382 T A A TTCAGGACCTCAGTTACTGACTTGCTGGCCTCATGCTGTTGTTTCCATCACAGCC
43382 IS [GA] GGGTAGAGCCGAGTGTGACCCGGGAGAGCGCTGTGATGGAAACAACAGCATGAGGCCAGC[GA]AGTCAGTAACTGAGGTCCTGAATGCCAGCAGGTGCCCAAGGGCACCCTGGGATGCCCTCG
43389 I S GACTTGGTTTCAATATTATGTGATACATAGGAAATCAAACCCAAGATTAA
43389 P G S ATGAGTGGCAGACCGGGTGGTTTATCTTTCTTY
43389 P A S CGCGCCGAGGTGGGTGGTTTATCTTTCTTTY
43389 T G S AAGAAAAAGAAAGATAAACCACCCGTAATCTTGGGTTTGATTTCCTATGTATCACATAATATTGAAACCAAGTCTA
43389 T A S AAGAAAAAGAAAGATAAACCACCCATAATCTTGGGTTTGATTTCCTATGTATCACATAATATTGAAACCAAGTCTA
43389 IS [GA] GGAGCAAACATTGGCCTATAAAACGAAAGAATAGAAAAGAAAAAGAAAGATAAACCACCC[GA]TAATCTTGGGTTTGATTTCCTATGTATCACATAATATTGAAACCAAGTCTAAGACTTTA T
43391 I A GACCCTGGCTTGCCCATCAGTCTGTCTT

FIGURE 129F



Attorney Docket No.: 10960.0001-00000

FIGURE 129F

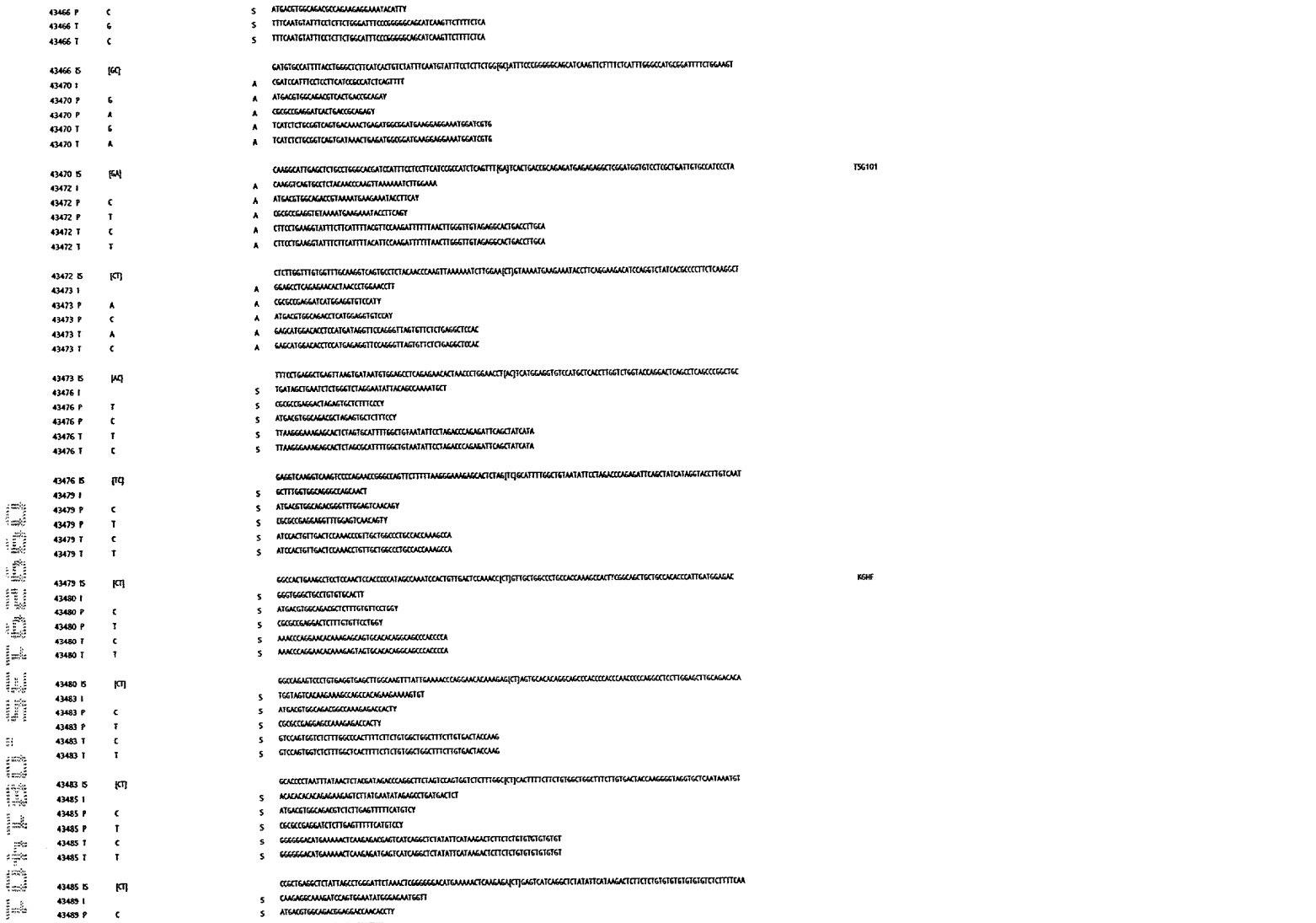
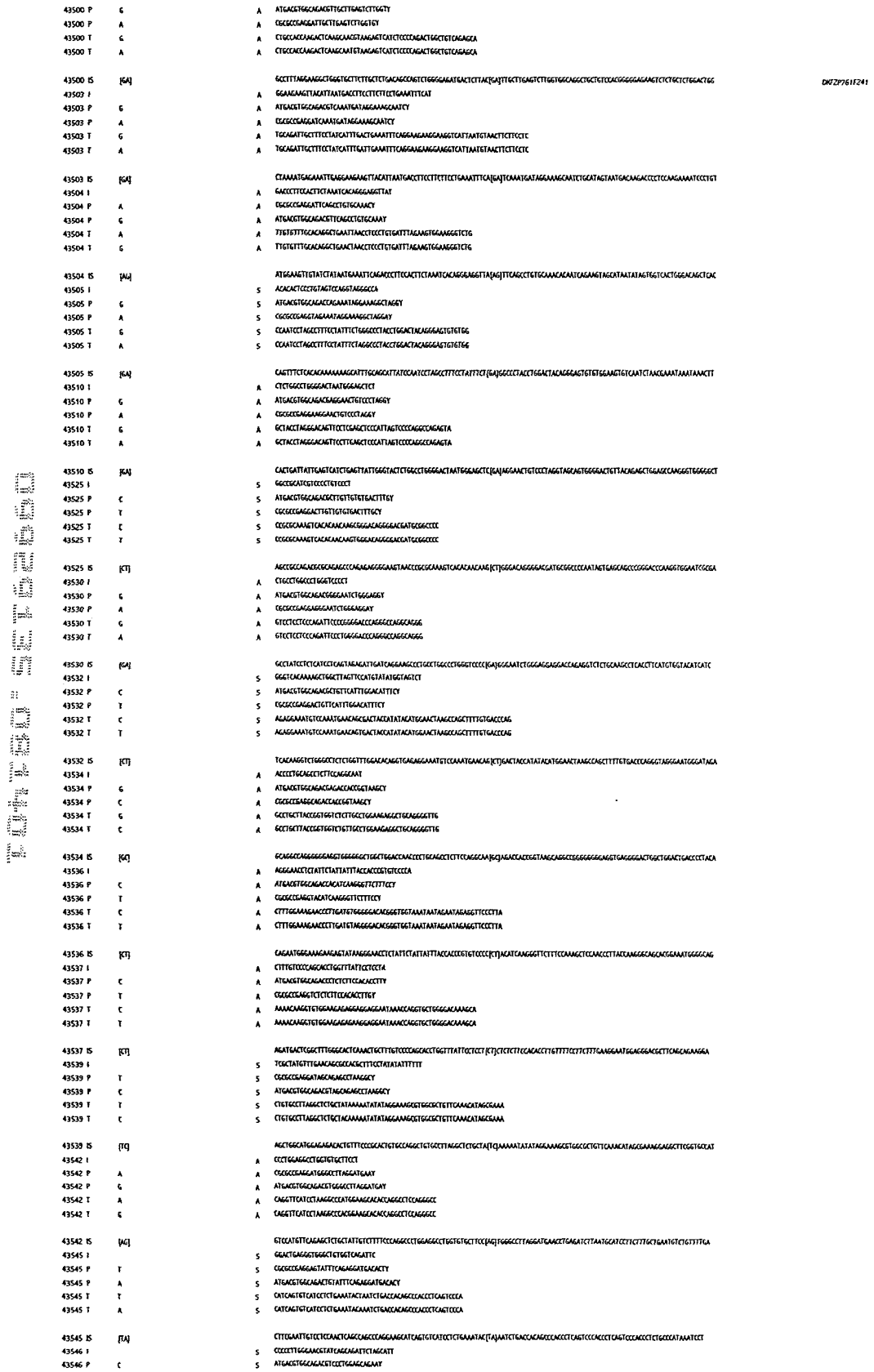

43466 P C S ATGACTGGCAGACGCCAGAAGAGGAAATACATTY
43466 T G S TTTCAATGTATTTCCTCTTCTGGGATTTCCCGGGGGCAGCATCAAGTTCTTTTCTCA
43466 T C S TTTCAATGTATTTCCTCTTCTGGCATTTCCCGGGGGCAGCATCAAGTTCTTTTCTCA
43466 IS [GC] GATGTGCCATTTTACCTGGGCTCTTCATCACTGTCTATTTCAATGTATTTCCTCTTCTGG[GC]ATTTCCCGGGGGCAGCATCAAGTTCTTTTCTCATTTGGGCCATGCGGATTTTCTGGAAGT
43470 I A CGATCCATTTCCTCCTTCATCCGCCATCTCAGTTTT
43470 P G A ATGACGTGGCAGACGTCACTGACCGCAGAY
43470 P A A CGCGCCGAGGATCACTGACCGCAGAGY
43470 T G A TCATCTCTGCGGTCAGTGACAAACTGAGATGGCGGATGAAGGAGGAAATGGATCGTG
43470 T A A TCATCTCTGCGGTCAGTCATAACTGAGATGGGCGATGAAGGAGGAAATGGATCGTG
43470 IS [GA] CAAGGCATTGAGCTCTGCCTGGGCAACGATCCATTTCCTCCTCATCCGCCATCTCAGTTT[GA]TCACTGACCGCAGAGATGAGAGAGGCTCGGATGGTGTCCTCGCTGATTGTGCCATCCCTA TSG101
43472 I A CAAGGTCAGTGCCTCTACAACCCAAGTTAAAAAATCTTGGAAA
43472 P C A ATGACGTGGCAGACCGTAAAATGAAGAAATACCTTCAY
43472 P T A CGCGCCGAGGTGTAAAATGAAGAAATACCTTCAGY
43472 T C A CTTCCTGAAGGTATTTCTTCATTTTACGTTCCAAGATTTTTTAACTTGGGTTGTAGAGGCACTGACCTTGCA
43472 T T A CTTCCTGAAGGTATTTCTTCATTTTACATTCCAAGATTTTTTAACTTGGGTTGTAGAGGCACTGACCTTGCA
43472 IS [CT] CTCTTGGTTTGTGGTTTGCAAGGTCAGTGCCTCTACAACCCAAGTTAAAAAATCTTGGAA[CT]GTAAAATGAAGAAATACCTTCAGGAAGACATCCAGGTCTATCACGCCCCTTCTCAAGGCT
43473 I A GGAGCCTCAGAGAACACTAACCCTGGAACCTT
43473 P A A CGCGCCGAGGATCATGGAGGTGTCCATY
43473 P C A ATGACGTGGCAGACCTCATGGAGGTGTCCAY
43473 T A A GAGCATGGACACCTCCATGATAGGTTCCAGGGTTAGTGTTCTCTGAGGCTCCAC
43473 T C A GAGCATGGACACCTCCATGAGAGGTTCCAGGGTTAGTGTTCTCTGAGGCTCCAC
43473 IS [AC] TTTCCTGAGGCTGAGTTAAGTGATAATGTGGAGCCTCAGAGAACACTAACCCTGGAACCT[AC]TCATGGAGGTGTCCATGCTCACCTTGGTCTGGTACCAGGACTCAGCCTCAGCCCGGCTGC
43476 I S TGATAGCTGAATCTCTGGGTCTAGGAATATTACAGCCAAAATGCT
43476 P T S CGCGCCGAGGACTAGAGTGCTCTTTCCCY
43476 P C S ATGACGTGGCAGACGCTAGAGTGCTCTTTCCY
43476 T T S TTAAGGGAAAGAGCACTCTAGTGCATTTTGGCTGTAATATTCCTAGACCCAGAGATTCAGCTATCATA
43476 T C S TTAAGGGAAAGAGCACTCTAGCGCATTTTGGCTGTAATATTCCTAGACCCAGAGATTCAGCTATCATA
43476 IS [TC] GAGGTCAAGGTCAAGTCCCCAGAACCGGGCAGTTCTTTTAAGGGAAAGAGCACTCTAG[TC]GCATTTTGGCTGTAATATTCCTAGACCCAGAGATTCAGCTATCATAGGTACCTTGTCAAT
43479 I S GCTTTGGTGGCAGGGCCAGCAACT
43479 P C S ATGACGTGGCAGACGGGTTTGGAGTCAACAGY
43479 P T S CGCGCCGAGGAGGTTTGGAGTCAACAGTY
43479 T C S ATCCACTGTTGACTCCAAACCCGTTGCTGGCCCTGCCACCAAAGCCA
43479 T T S ATCCACTGTTGACTCCAAACCTGTTGCTGGCCCTGCCACCAAAGCCA
43479 IS [CT] GGCCACTGAAGCCTCCTCCAACTCCACCCCCATAGCCAAATCCACTGTTGACTCCAAACC[CT]GTTGCTGGCCCTGCCACCAAAGCCACTTCGGCAGCTGCTGCCACACCCATTGATGGAGAC KGHF
43480 I S GGGTGGGCTGCCTGTGTGCACTT
43480 P C S ATGACGTGGCAGACGCTCTTTGTGTTCCTGGY
43480 P T S CGCGCCGAGGACTCTTTGTGTTCCTGGY
43480 T C S AAACCCAGGAACACAAAGAGCAGTGCACACAGGCAGCCCACCCCA
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43480 IS [CT] GGCCAGAGTCCCTGTGAGGTGAGCTTGGCAAGTTTATTGAAAACCCAGGAACACAAAGAG[CT]AGTGCACACAGGCAGCCCACCCCACCCAACCCCCAGGCCTCCTTGGAGCTTGCAGACACA
43483 I S TGGTAGTCACAAGAAAGCCAGCCACACAGAAGAAAAGTGT
43483 P C S ATGACGTGGCAGACGGCCAAAGAGACCACTY
43483 P T S CGCGCCGAGGAGCCAAAGAGACCACTY
43483 T C S GTCCAGTGGTCTCTTTGGCCCACTTTTCTTCTGTGGCTGGCTTTCTTGTGACTACCAAG
43483 T T S GTCCAGTGGTCTCTTTGGCTCACTTTTCTTCTGTGGCTGGCTTTCTTGTGACTACCAAG
43483 IS [CT] GCACCCCTAATTTATAACTCTAGGATAGACCCAGGCTTCTAGTCCAGTGGTCTCTTTGGC[CT]CACTTTTCTTCTGTGGCTGGCTTTCTTGTGACTACCAAGGGGTAGGTGCTCAATAAATGT
43485 I S ACACACACACAGAGAAGAGTCTTATGAATATAGAGGCTGATGACTCT
43485 P C S ATGACGTGGCAGAGTCTCTCTGAGTTTTTCATGTCY
43485 P T S CGCGCCGAGGAGAGGACCAACACCTGY
43485 T C S GTAGCAGGTGTTGGTCCTCCACCATTCTCCCATATTCCACTGGATCTTTGCCTCTTGCC
43485 T T S GTAGCAGGTGTTGGTCCTCTACCATTCTCCCATATTCCACTGGATCTTTGCCTCTTGCC
43485 IS [CT] CCGCTGAGGCTCTATTAGCCTGGGATTCTAAACTCGGGGGGGACATGAAAAACTCAAGAGAG[CT]GAGTCATCAGGCTCTATATTCATAAGACTCTCTCTGTGTGTGTGTGTCTCTTTTCAA
43489 I S CAAGAGGCAAAGATCCAGTGGAATATGGGAGAATGGTT
43489 P C S ATGACGTGGCAGACGGAGGAGACAACACCTY
43489 P T S CGCGCCGAGGAGAGGACCAACACCTGY
43489 T C S GTAGCAGGTGTTGGTCCTCCACCATTCTCCCATATTCCACTGGATCTTTGCCTCTTGCC
43489 T T S GTAGCAGGTGTTGGTCCTCTACCATTCTCCCATATTCCACTGGATCTTTGCCTCTTGCC
43489 IS [CT] TCATGACTGCTTTCTTGCTTTTTTTAGAAAAGCTCTCTGGGGTAGCAGGTGTTGGTCTCTC[CT]ACCATTCTCCCATATTCCACTGGATCTTTGCCTCTTGCCTGAAGCTTTATTTTGGCCAGA CENPF
43491 I A TGAATGTGAGGGAACTGCAGAAATTAAACTTTCAGTCTT
43491 P A A CGCGCCGAGGAATTCTCAGAATGCCAGAGY
43491 P G A ATGACGTGGCAGACGATTCTCAGAATGCCAGAGY
43491 T A A CTTACTCTGGCATTCTGAGAATTAGACTGAAAGTTTAATTTCTGCAGTCCCTCACATTCAGA
43491 T G A CTTACTCTGGCATTCTGAGAATCAGACTGAAAGTTTAATTTCTGCAGTCCCTCACATTCAGA
43491 IS [AG] TTATAACATCAAAGAAAGAATCTGAATGTGAGGGAACTGCAGAAATTAAACTTCAGTCT[AG]ATTCTCAGAATGCCAGAGTAAGATGAACCCTTTACAGTAATAGTGAAATAATTCGGGCTC
43497 I A GCTCAGTTTCCAGGATCATCCCACTGTGTGCTAT
43497 P G A ATGACGTGGCAGACGGTGCGTTACATGCTTY
43497 P C A CGCGCCGAGGCGTGCGTTACATGCTTY
43497 T G A TTAAAAGCATGTAACGCACCTAGCACACAGTGGGATGATCCTGGAAACTGAGCCA
43497 T C A TTAAAAGCATGTAACGCACGTAGCACACAGTGGGATGATCCTGGAAACTGAGCCA
43497 IS [GC] TGTCTGTTGAGTCCGTTGGGTGTGTTGGCTCAGTTTCCAGGATCATCCCACTGTGTGCTA[GC]GTGGGTTACATGCTTTTAACCTTTATAGAAAACCCAATCAGTGGGTATCAAATAAAGCCC
43498 I A TGGGTATCAAATAAAGCCCAAAGAATTTTCCAAACTCAAGGCAT
43498 P A A CGCGCCGAGGAGACATATTAAGCCAATTATGAGAY
43498 P G A ATGACGTGGCAGACGGACATATTAAGCCAATTATGAGY
43498 T A A TTTTTCTCATAATTGGCTTAATATGTCTGCCTTGAGTTTGGAAAATTCTTTGGGCTTTATTTGATACCCACT
43498 T G A TTTTTCTCATAATTGGCTTAATATGTCTGCCTTGAGTTTGGAAAATTCTTTGGGCTTTATTTGATACCCACT
43498 IS [AG] ATAGAAAACCCAATCAGTGGGTATCAAATAAAGCCCAAAGAATTTTCCAAACTCAAGGCA[AG]GACATATTAAGCCAATTATGAGAAAAACTAGGATTAGAACCATATCTTTCACTCCAAAGC
43499 I S CTACATCTAGCTCTGTCACAGCTGTTTAATTTTTAAGCTGTTAATCACCAT
43499 P T S CGCGCCGAGGACATAAAGTTTAAGCTCATACAGTY
43499 P C S ATGACGTGGCAGACGCATAAAGTTTAAGCTCATACAGY
43499 T T S AGTAACTGTATGAGCTTAAACTTTATGTTGGTGATTAACAGCTTAAAAATTAAACAGCTGTGACAGAGCTAGATGTAGGC
43499 T C S AGTAACTGTATGAGCTTAAACTTTATGCTGGTGATTAACAGCTTAAAAATTAAACAGCTGTGACAGAGCTAGATGTAGGC
43499 IS [TC] TGTAAGTCATTTAAAAATACAGAAAAACATAAAAGTAACTGTATGAGCTTAAACTTTATG[TC]TGGTGATTAACAGCTTAAAAATTAAACAGCTGTGACAGAGCTAGATGTAGGCGAAGCTA
43500 I A CTCTGACAGCCAGTCTGGGCAGATGACTCTTACT
Applicant: Incyte Genomics, Inc.
Serial No.: 09/782,356
Filing Date: February 13, 2001
Docket No.: PI-0180 PCT

FIGURE 129F


43500 P G A ATGACGTGGCAGACGTTGCTTGAGTCTTGGTY
43500 P A A CGCGCCGAGGATTGCTTGAGTCTTGGTGY
43500 T G A CTGCCACCAAGACTCAAGCAACGTAAGAGTCATCTCCCCAGACTGGCTGTCAGAGCA
43500 T A A CTGCCACCAAGACTCAAGCAATGTAAGAGTCATCTCCCCAGACTGGCTGTCAGAGCA
43500 IS [GA] GCCTTTAGGAAGGCTGGGTGCTTCTTGCTCTGACAGCCAGTCTGGGGAGAATGACTCTTAC[GA]TTGCTTGAGTCTTGGTGGCAGGCTGCTGTCCACGGGGGAGAAGTCTCTGCTCTGGACTGG DKFZP761E241
43503 I A GGAACAAGTTACATTAATGACCTTCCTTCTTCCTGAAATTTCAT
43503 P G A ATGACGTGGCAGACGTCAAATGATAGGAAAGCAATCY
43503 P A A CGCGCCGAGGATCAAATGATAGCAAAGCAATCY
43503 T G A TGCAGATTGCTTTCCTATCATTTGACTGAAATTTCAGGAAGAAGGAAGGTCATTAATGTAACTTCTTCCTC
43503 T A A TGCAGATTGCTTTCCTATCATTTGATTGAAATTTCAGGAAGAAGGAAGGTCATTAATGTAACTTCTTCCTC
43503 IS [GA] CTAAAATGAGAAATTGAGGAAGAAGTTACATTAATGACCTTCCTTCTTCCTGAAATTTCA[GA]TCAAATGATAGGAAAGCAATCTGCATAGTAATGACAAGACCCCTCCAAGAAAATCCCTGT
43504 I A GACCCTTCCACTTCTAAATCACAGGGAGGTTAT
43504 P A A CGCGCCGAGGATTCAGCCTGTGCAAACY
43504 P G A ATGACGTGGCAGACGTTCAGCCTGTGCAAAY
43504 T A A TTGTGTTTGCACAGGCTGAATTAACCTCCCTGTGATTTAGAAGTGGAAGGGTCTG
43504 T G A TTGTGTTTGCACAGGCTGAACTAACCTCCCTGTGATTTAGAAGTGGAAGGGTCTG
43504 IS [AG] ATGGAAGTTGTATCTATAATGAAATTCAGAACCCTTCCACTTCTAAATCACAGGGAGGTTA[AG]TTCAGCCTGTGCAAACACAATCAGAAGTAGCATAATATAGTGGTCACTGGGACAGCTCAC
43505 I S ACACACTCCCTGTAGTCCAGGTAGGGCCA
43505 P G S ATGACGTGGCAGACCAGAAATAGGAAAGCTAGGY
43505 P A S CGCGCCGAGGTAGAAATAGGAAAGCTAGGAY
43505 T G S CCAATCCTAGCCTTTCCTATTTCTGGGCCCTACCTGGACTACAGGGAGTGTGTGG
43505 T A S CCAATCCTAGCCTTTCCTATTTCTAGGCCCTACCTGGACTACAGGGAGTGTGTGG
43505 IS [GA] CAGTTTCTCACACAAAAAAAGGATTTGCAGCATTATCCAATCCTAGCCTTTCCTATTTCT[GA]GGCCCTACCTGGACTACAGGGAGTGTGTGGAAGTGTCAATCTAACGAAATAAATAAACTT
43510 I A CTCTGGCCTGGGGACTAATGGGAGCTCT
43510 P G A ATGACGTGGCAGACRAGGAACTGTCCCTAGGY
43510 P A A CGCGCCGAGGAAGGAACTGTCCCTAGGY
43510 T G A GCTACCTAGGGACAGTTCCTCGAGCTCCCATTAGTCCCCAGGCCAGAGTA
43510 T A A GCTACCTAGGGACAGTTCCTTCAGCTCCCATTAGTCCCCAGGCCAGAGTA
43510 IS [GA] CACTGATTATTGAGTCATCTGAGTTATTGGGTACTCTGGCCTGGGGACTAATGGGAGCTC[GA]AGGAACTGTCCCTAGGTAGCAGTGGGGACTGTTACAGAGCTGGAGCCAAGGGTGGGGCT
43525 I S GGCCGCATCGTCCCCTGTCCCT
43525 P C S ATGACGTGGCAGACGCTTGTTGTGTGACTTTGY
43525 P T S CGCGCCGAGGACTTGTTGTGTGACTTTGCY
43525 T C S CCGCGCAAAGTCACACAACAAGCGGGACAGGGGACGATGCGGCCCC
43525 T Y S CCGCGCAAAGTCACACAACAAGTGGGACAGGGGACGATGCGGCCCC
43525 IS [CT] AGCCGCCAGACGCGCAGACCCAGAGAGCGGGAAGTAACCCGCGAAAGTCACACAACAAG[CT]GGGACAGGGGACGATGCGGCCCCAATAGTGAGCAGCCCGGGACCCAAGGTGGAATCGCGA
43530 I A CTGCCTGGCCCTGGGTCCCCT
43530 P G A ATGACGTGGCAGACGGGGAATCTGGGAGGY
43530 P A A CGCGCCGAGGAGGGAATCTGGGAGGAY
43530 T G A GTCCTCCTCCCAGATTCCCCGGGGAGCCCAGGGCCAGGCAGGG
43530 T A A GTCCTCCTCCCAGATTCCCTGGGAGCCCAGGGCCAGGCAGGG
43530 IS [GA] GCCTATCCTCTCATCCTCAGTAAAGATTGATCAGGAAAGCCCTGCCTGGCCCTGGGTCCCC[GA]GGGAATCTGGGAGGAGGACCAGAGGTCTCTGCAAGCCTCACCTTCATGTGGTACATCATC
43532 I S GGGTCACAAAAGCTGGCTTAGTTCCATGTATATGGTAGTCT
43532 P C S ATGACGTGGCAGACGCTGTTCATTTGGACATTTCY
43532 P T S CGCGCCGAGGACTGTTCATTTGGACATTTCY
43532 T C S AGAGGAAATGTCCAAATGAACAGCGACTACCATATACATGGAACTAAGCCAGCTTTTGTGACCCAG
43532 T T S AGAGGAAATGTCCAAATGAACAGTGACTACCATATACATGGAACTAAGCCAGCTTTTGTGACCCAG
43532 IS [CT] TCACAAGGTCTGGGGCTCTCTGGTTTGGACACAGGTGAGAGGAAATGTCCAAATGAACAG[CT]GACTACCATATACATGGAACTAAGCCAGCTTTTGTGACCCAGGGTAGGGAATGGGATAGA
43534 I A ACCCCTGCAGCCTCTTCCAGGCAAT
43534 P G A ATGACGTGGCAGACGACCACCGGTAAGCY
43534 P C A CGCGCCGAGGCAGACGACCACCGGTAAGCY
43534 T G A GCCTGCTTACCCGTGGTCTCTTGCCTGGAAAGAGCTGCAGGGGTTG
43534 T C A GCCTGCTTACCCGTGGTCTGTTGCCTGGAAGAGCCTGCAGGGGTTG
43534 IS [GC] GCAGCCCAGGGGGGAGGTGGGGGCTGGCTGGACCAACCCTGCAGCCTCTTCCAGGCCA[GC]AGACCACCGGTAAGCAGCCCGGGGGGGAGGTGAGGGGACTGGCTGGACTGACCCCTACA
43536 I A AGGCAACCTCTATTCTATTATTTACCACCCGTGTCCCCA
43536 P C A ATGACGTGGCAGACCACATCAAGGGTTCTTTCCY
43536 P T A CGCGCCGAGGTACATCAAGGGTTCTTTCCY
43536 T C A CTTTGGAAAGAACCCTGATGTAGGGGACACGGGTGGTAAATAATAGAATAGAGGTTCCCTTA
43536 T T A CTTTGGAAAGAACCCTGATGTAGGGGACACGGGTGGTAAATAATAGAATAGAGGTTCCCTTA
43536 IS [CT] CAGAATGGGAAAGAAGAGTATAAGGGAACCTCTATTCTATTATTTACCACCCGTGTCCCC[CT]ACATCAAGGGTTCTTTCCAAAGCTCCAACCCTTACCAAGGGCAGCAGCAGGAAATGGGGCAG
43537 I A CTTTGTCCCCAGCACCTGGTTTATTCCTCCTA
43537 P C A ATGACGTGGCAGACCCTCTCTTCCACACCTTY
43537 P T A CGCGCCGAGGTCTCTCTTCCACACCTTGY
43537 T C A AAAACAAGGTGTGGAAGAGAAGGAGGAGGAATAAACCAGGTGCTGGGGACAAAGCA
43537 T T A AAAACAAGGTGTGGAAGAGAAGGAGGAATAAACCAGGTGCTGGGGACAAAGCA
43537 IS [CT] AGATGACTCGGCTTTGGGCACTCAAACTGCTTTGTCCCCAGCACCTGGTTTATTCCTCCT[CT]CTCTCTTCCACACCTTGTTTTCCTTCTTTGAAGGAATGCAGCGGACGCTTCAGCAGAAGAA
43539 I S TCGCTATGTTTGAACAGCGCCACGCTTTCCTATATATTTTTT
43539 P T S CGCGCCGAGGATAGCAGAGCCTAAGGCY
43539 P C S ATGACGTGGCAGACGTAGCAGAGCCTAAGGCY
43539 T T S CTGTGCCTTAGGCTCTGCTATAAAAATATATAGGAAAGCGTGGCGCTGTTCAAACATAGCGAAA
43539 T C S CTGTGCCTTAGGCTCTGCTACAAAAATATATAGGAAAGCGTGGCGCTGTTCAAACATAGCGAAA
43539 IS [TC] AGCTGGCATGGAGAGAACTGTTCCCGCACTGTGCCAGGCTGTGCCTTAGGCTCTGCTA[TC]AAAATATATAGGAAAGCGTGGCGCTGTTCAAACATAGCGAAAGGAGGCTTCGGTGCCAT
43542 I A CCCTGGAGGCCTGCTGTGCTTCCT
43542 P A A CGCGCCGAGGATGGGCCTTAGGATGAAY
43542 P G A ATGACGTGGCAGACGTGGGCCTTAGGATGAY
43542 T A A CAGGTTCATCCTAAGGCCCATGGAAGCACACAGGCCTCCAGGGCC
43542 T G A CAGGTTCATCCTAAGGCCACGGAAGCACACCAGGCCTCCAGGGCC
43542 IS [AC] GTCCATGTTCAGAGCTCTGCTATTGTCTTTTCCCAGGCCTGGAGGCCTGGTGTGCTTCC[AC]TGGGCCTTAGGATGAACCTGAGATCTTAATGCATCCTTCTTGCTGAATGTCTGTTTTCA
43545 I S GGACTGAGGGTGGGCTGTGGTCAGATTC
43545 P T S CGCGCCGAGGAGTATTTCAGAGGATGACACTY
43545 P A S ATGACGTGGCAGACTGTATTTCAGAGGATGACACY
43545 T T S CATCAGTGTCATCCTCTGAAATACTAATCTGACCACAGCCCACCCTCAGTCCCA
43545 T A S CATCAGTGTCATCCTCTGAAATACAAATCTGACCACAGCCCACCCTCAGTCCCA
43545 IS [TA] CTTTGAATTGTCCTCCAACTCAGCCAGCCAGGAAGCATCAGTGTCATCCTCTGAAATAC[TA]AATCTGACCACAGCCCACCCTCAGTCCCACCCTCAGTCCCACCCTCTGCCCCATAAATCCT
43546 I S CCCCCTTGGCAACGTATCAGCAGATTCTAGCATT
43546 P C S ATGACGTGGCAGACGTCCCTGGAGCAGAAT

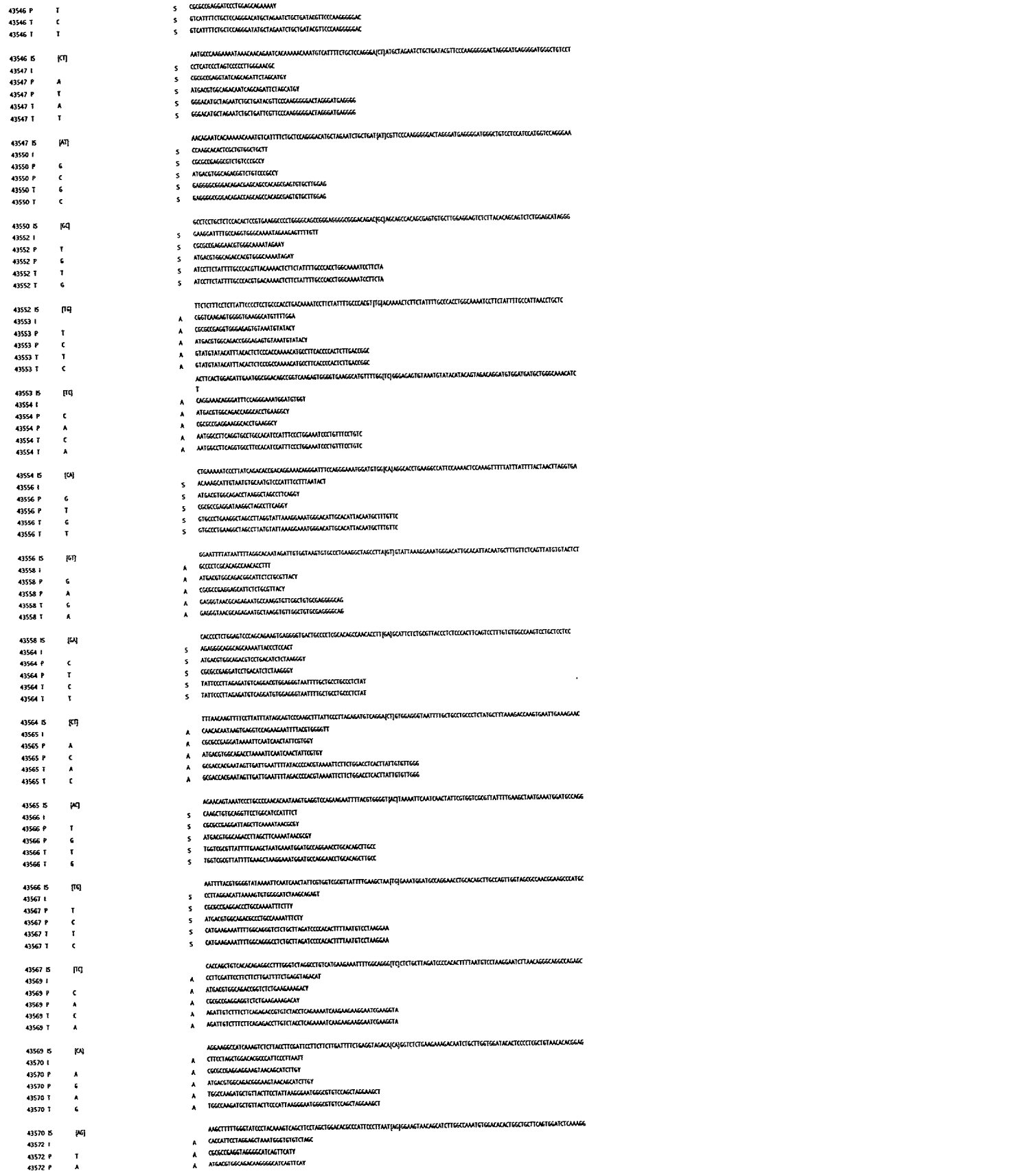
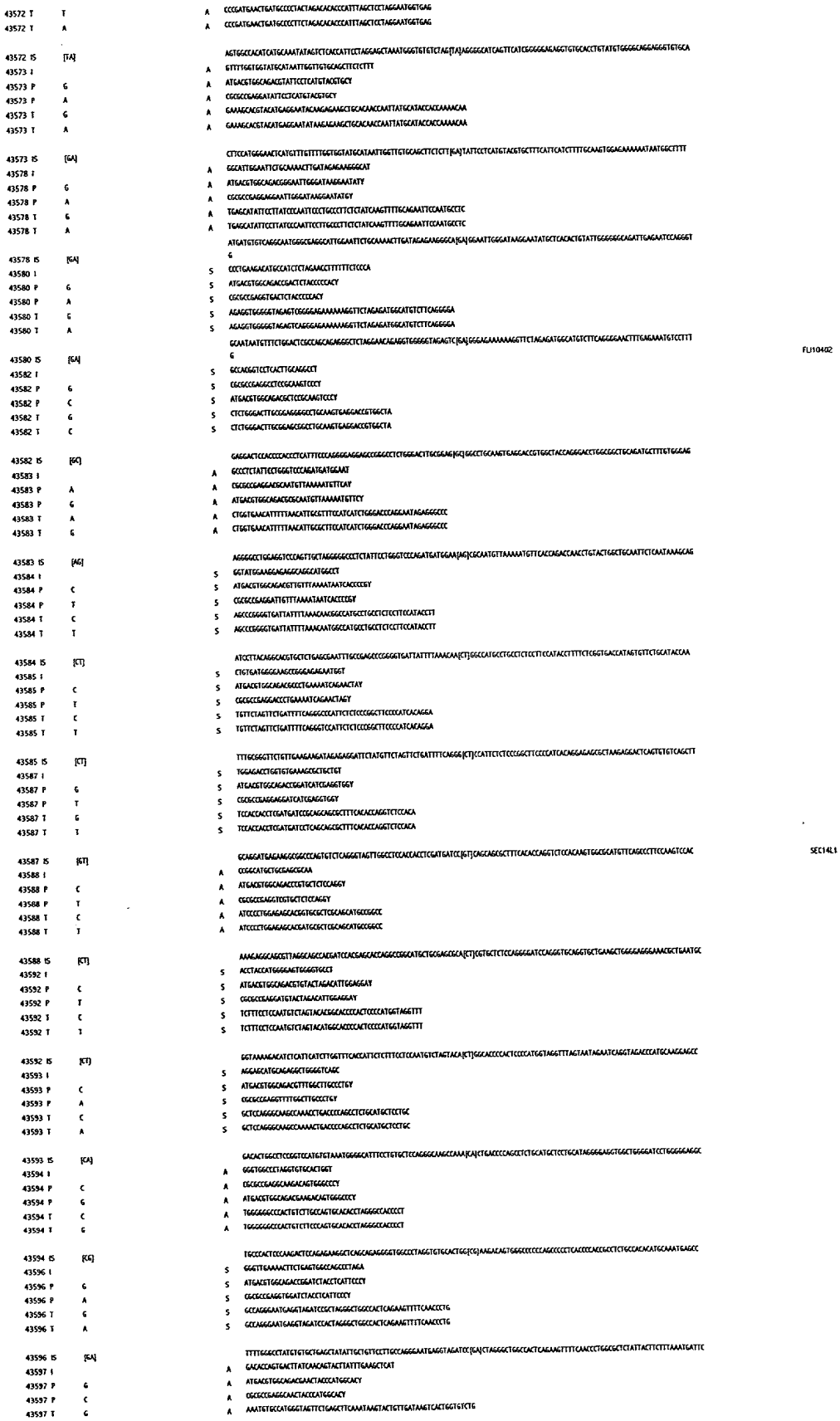


FIGURE 129F



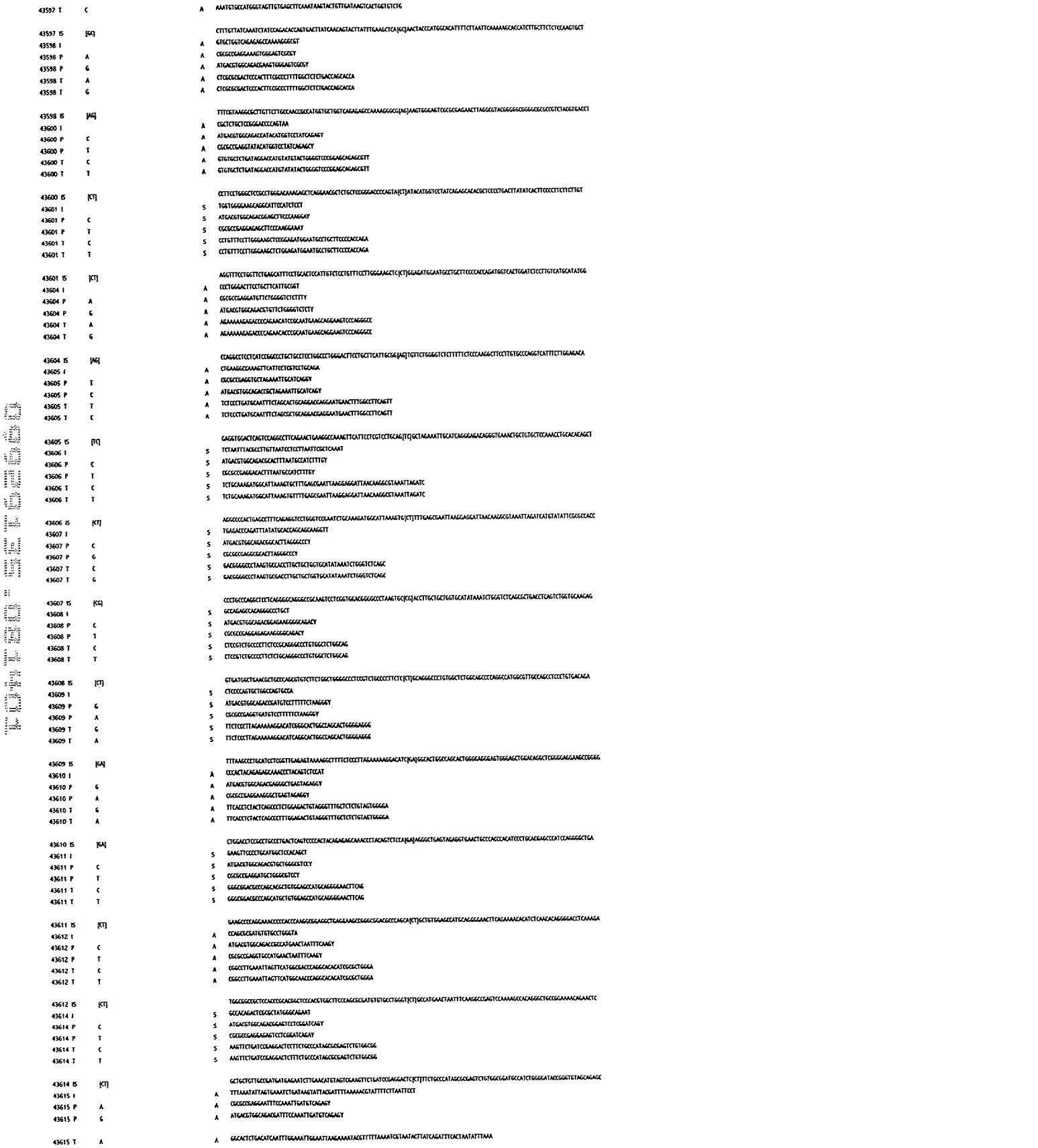
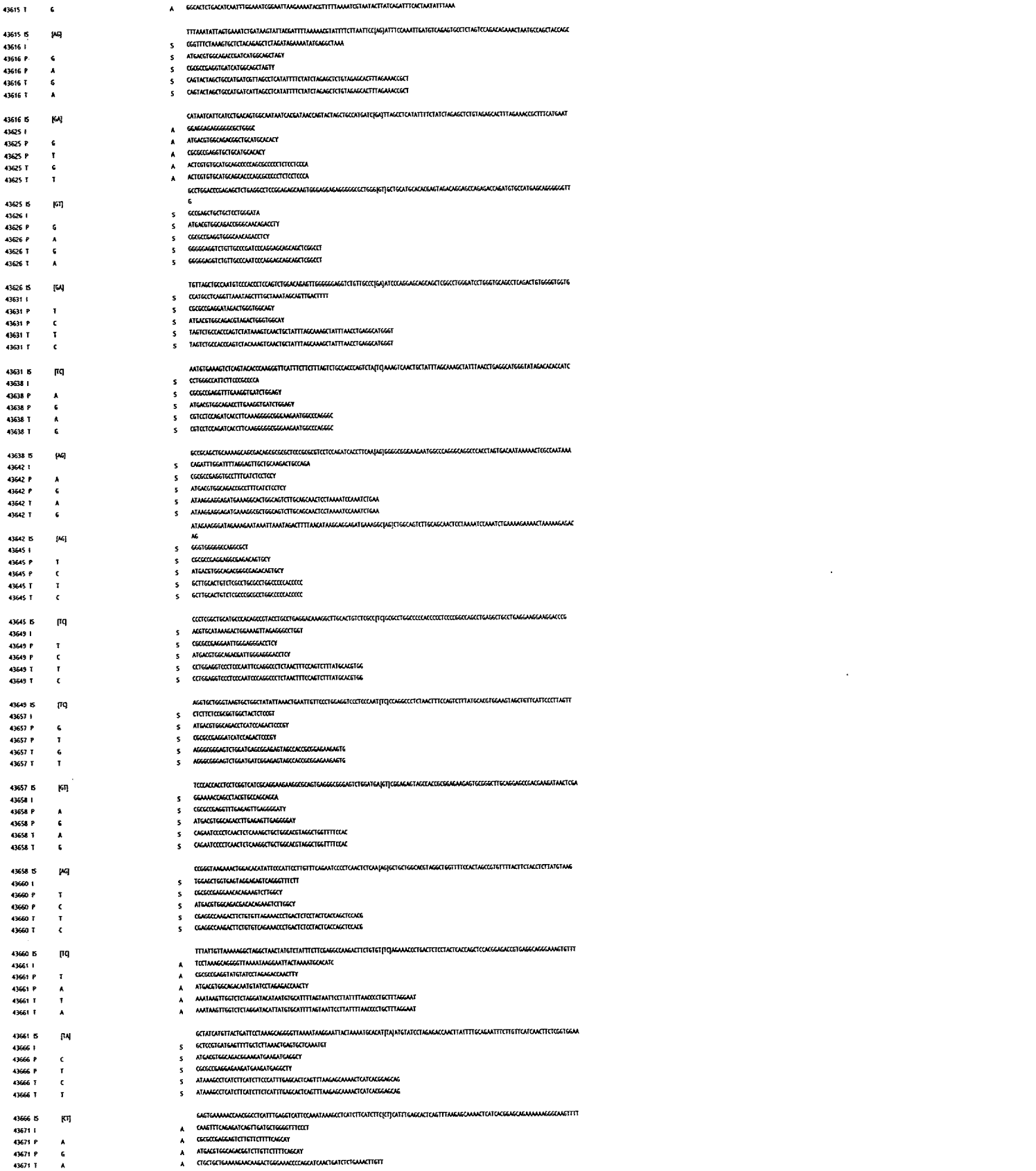


FIGURE 129F



SUBSTITUTE SHEET (RULE 26)

FIGURE 129F

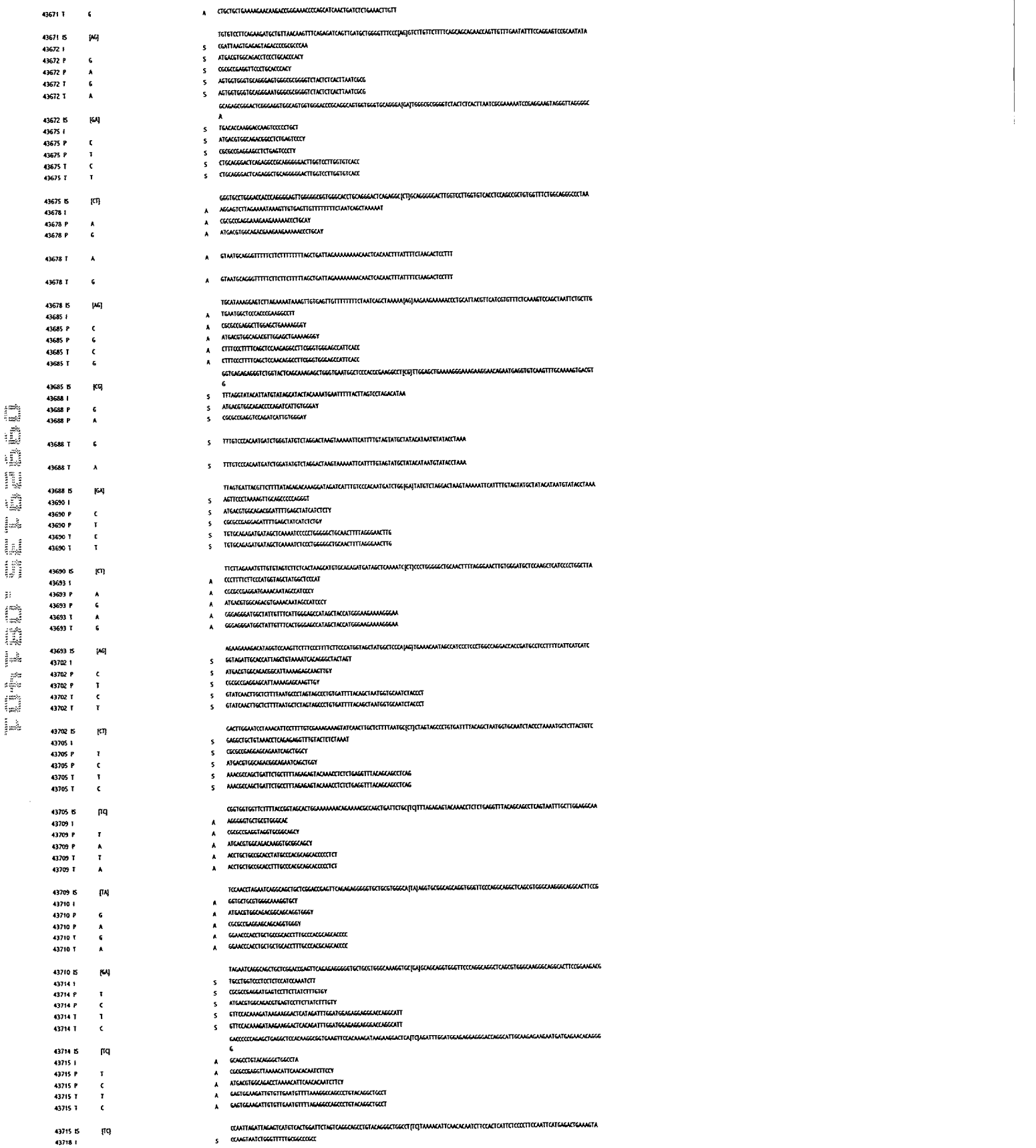


FIGURE 129F

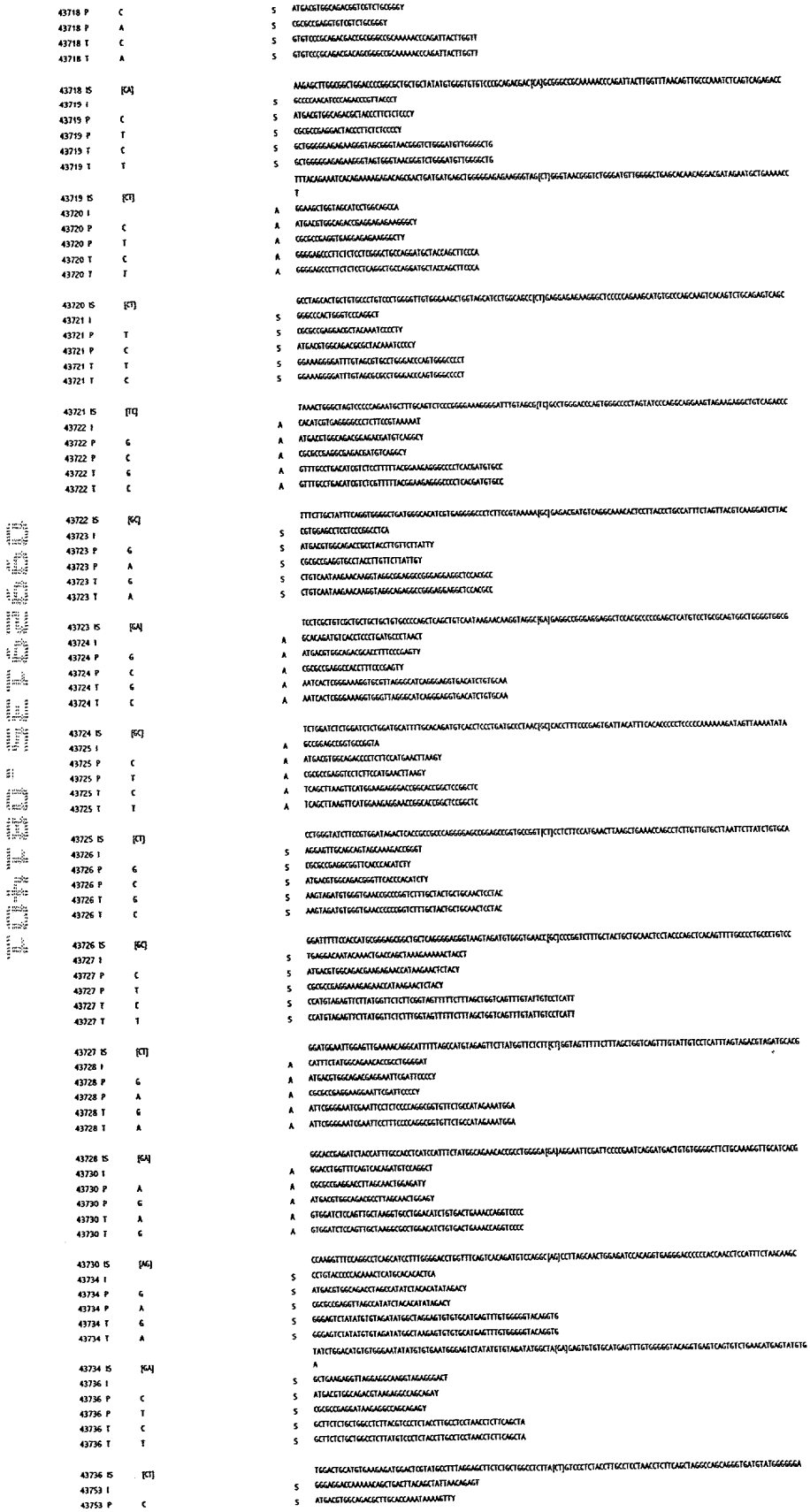

43718 P C
43718 P A
43718 T C
43718 T A
43718 IS [GA]
43719 I
43719 P C
43719 P T
43719 T C
43719 T T
43719 IS [CT]
43720 I
43720 P C
43720 P T
43720 T C
43720 T T
43720 IS [CT]
43721 I
43721 P T
43721 P C
43721 T T
43721 T C
43721 IS [TC]
43722 I
43722 P G
43722 P C
43722 T G
43722 T C
43722 IS [GC]
43723 I
43723 P G
43723 P A
43723 T G
43723 T A
43723 IS [GA]
43724 I
43724 P G
43724 P C
43724 T G
43724 T C
43724 IS [GC]
43725 I
43725 P C
43725 P T
43725 T C
43725 T T
43725 IS [CT]
43726 I
43726 P G
43726 P C
43726 T G
43726 T C
43726 IS [GC]
43727 I
43727 P C
43727 P T
43727 T C
43727 T T
43727 IS [CT]
43728 I
43728 P G
43728 P A
43728 T G
43728 T A
43728 IS [GA]
43730 I
43730 P A
43730 P G
43730 T A
43730 T G
43730 IS [AG]
43734 I
43734 P G
43734 P A
43734 T G
43734 T A
43734 IS [GA]
43736 I
43736 P C
43736 P T
43736 T C
43736 T T
43736 IS [CT]
43753 I
43753 P C

FIGURE 129F

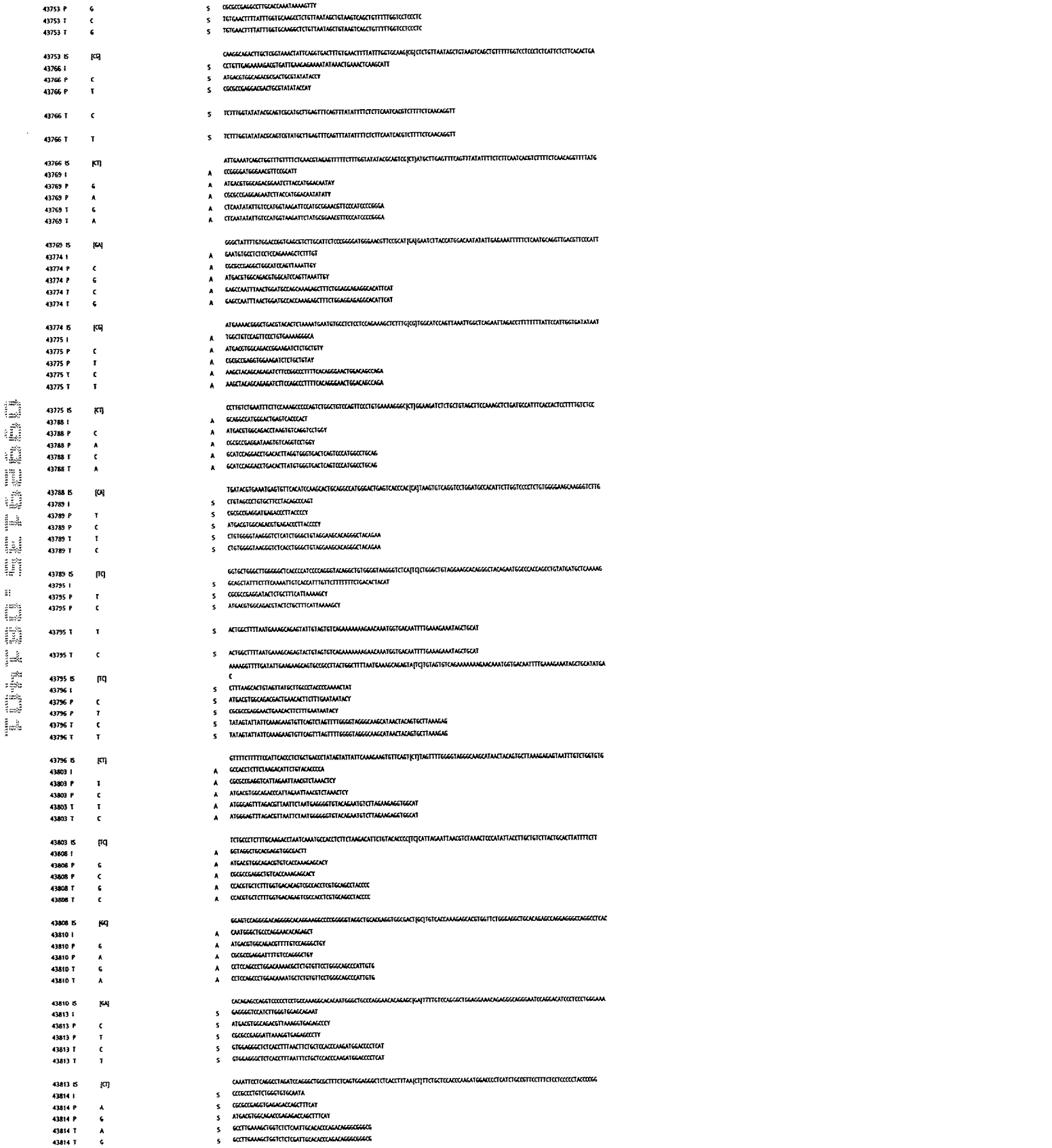

43753 P G S CGCGCCGAGCCCTTGCACAAATAAAAGTTY
43753 T C S TGTGAACTTTTATTTGGTGCAAGCCTCTGTTAATAGCTGTAAGTCAGCTGTTTTTGGTCCTCCCTC
43753 T G S TGTGAACTTTTATTTGGTGCAAGGCTCTGTTAATAGCTGTAAGTCAGCTGTTTTTGGTCCTCCCTC
43753 IS [CG] CAAGGCAGACTTGCTCGGTAAACTATTCAGGTGACTTTGTGAACTTTTATTTGGTGCAAG[CG]CTCTGTTAATAGCTGTAAGTCAGCTGTTTTTGGTCCTCCCTCTCATTCTCTTCACACTGA
43766 I S CCTGTTGAGAAAAGAGCTGATTGAAGAGAAAATATAAACTGAAACTCAAGCATT
43766 P C S ATGACGTGGCAGACGCGACTGCGTATATACCY
43766 P T S CGCGCCGAGGACGACTGCGTATATACCAY
43766 T C S TCTTTGGTATATACGCAGTCGCATGCTTGAGTTTCAGTTTATATTTTCTCTTCAATCACGTCTTTTCTCAACAGGTT
43766 T T S TCTTTGGTATATACGCAGTCGTATGCTTGAGTTTCAGTTTATATTTTCTCTTCAATCACGTCTTTTCTCAACAGGTT
43766 IS [CT] ATTGAAATCAGCTGGTTTGTTTTCTGAACGTAGAGTTTTTCTTTGGTATATACGCAGTCG[CT]ATGCTTGAGTTTCAGTTTATATTTTCTCTTCAATCACGTCTTTTCTCAACAGGTTTATG
43769 I A CCGGGGATGGGAACGTTCCGCATT
43769 P G A ATGACGTGGCAGACGGAATCTTACCATGGAACAATAY
43769 P A A CGCGCCGAGGAGAATCTTACCATGGACAATATATT
43769 T G A CTCAATATATTGTCCATGGTAAGATTCCATGCGGAACGTTCCCATCCCCGGGA
43769 T A A CTCAATATATTGTCCATGGTAAGATTCTATGCGGAACGTTCCCATCCCCGGGA
43769 IS [GA] GGGCTATTTTGTGGACCGGTCAGCGTCTTGCATTCTCCCGGGGATGGGAACGTTCCGCAT[GA]GAATCTTACCATGGACAATATATTGAGAAATTTTTCTCAATGCAGGTTGACGTTCCCATT
43774 I A GAATGTGCCTCTCCTCCAGAAAGCTCTTTGT
43774 P C A CGCGCCGAGGCTGGCATCCAGTTAAATTGY
43774 P G A ATGACGTGGCAGACGTGGCATCCAGTTAAATTGY
43774 T C A GAGCCAATTTAACTGGATGCCAGCAAAGAGCTTTCTGGAGGAAGAGGCACATTCAT
43774 T G A GAGCCAATTTAACTGGATGCCACCAAAGAGCTTTCTGGAGGAAGAGGCACATTCAT
43774 IS [CG] ATGAAAACGGGCTGACGTACACTCTAAAATGAATGTGCCTCTCCTCCAGAAAGCTCTTTG[CG]TGGCATCCAGTTAAATTGGCTCAGAATTAGACCTTTTTTTTATTCCATTGGTGATATAAT
43775 I A TGGCTGTCCAGTTCCCTGTGAAAAGGGCA
43775 P C A ATGACGTGGCAGACGGAAGATCTCTGCTGTY
43775 P T A CGCGCCGAGGTGGAAGATCTCTGCTGTAY
43775 T C A AAGCTACAGCAGAGATCTTCCGGCCCTTTTCACAGGGAACTGGACAGCCAGA
43775 T T A AAGCTACAGCAGAGATCTTCCAGCCCTTTTCACAGGGAACTGGACAGCCAGA
43775 IS [CT] CCTTGTCTGAATTTCTTCAAAGCCCCCAGTCTGGCTGTCCAGTTCCCTGTGAAAAGGGC[CT]GGAAGATCTCTGCTGTAGCTTCCAAAGCTCTGATGCCATTTCACCACTCCTTTTGTCTCC
43788 I A GCAGGCCATGGGACTGAGTCACCCACT
43788 P C A ATGACGTGGCAGACCTAAGTGTCAGGTCCTGGY
43788 P A A CGCGCCGAGGATAAGTGTCAGGTCCTGGY
43788 T C A GCATCCAGGACCTGACACTTAGGTGGGTGACTCAGTCCCATGGCCTGCAG
43788 T A A GCATCCAGGACCTGACACTTATGTGGGTGACTCAGTCCCATGGCCTGCAG
43788 IS [CA] TGATACGTGAAATGAGTGTTCACATCCAAGCACTGCAGGCCATGGGACTGAGTCACCCAC[CA]TAAGTGTCAGGTCCTGGATGCCACATTCTTGGTCCCCTCTGTGGGGAAGCAAGGGTCTTG
43789 I S CTGTAGCCCTGTGCTTCCTACAGCCCAGT
43789 P T S CGCGCCGAGGATGAGACCCTTACCCCY
43789 P C S ATGACGTGGCAGACGTGAGACCCTTACCCCY
43789 T T S CTGTGGGGTAAGGGTCTCATCTGGGCTGTAGCAAGCACAGGGCTACAGAA
43789 T C S CTGTGGGGTAAGGGTCTCACCTGGGCTGTAGCAAGCACAGGGCTACAGAA
43789 IS [TC] GGTGCTGGGCTTGGGGGCTCACCCCATCCCCAGGGTACAGGCTGTGGGGTAAGGGTCTCA[TC]CTGGGCTGTAGGAAGCACAGGGCTACAGAATGGCCCCACCAGCCTGTATGATGCTCAAAAG
43795 I S GCAGCTATTTCTTTCAAAATTGTCACCATTTGTTCTTTTTTTCTGACACTACAT
43795 P T S CGCGCCGAGCATACTCTGCTTTCATTAAAAGCY
43795 P C S ATGACGTGGCAGACGTACTCTGCTTTCATTAAAAGCY
43795 T T S ACTGGCTTTTAATGAAAGCAGAGTATTGTAGTGTCAGAAAAAAAGAACAAATGGTGACAATTTTGAAAGAAATAGCTGCAT
43795 T C S ACTGGCTTTTAATGAAAGCAGAGTACTGTAGTGTCAGAAAAAAAGAACAAATGGTGACAATTTTGAAAGAAATAGCTGCAT
43795 IS [TC] AAAAGGTTTTGATATTGAAGAAGCAGTGCCGCCTTACTGGCTTTTAATGAAAGCAGAGTA[TC]TGTAGTGTCAGAAAAAAAGAACAAATGGTGACAATTTTGAAAGAAATAGCTGCATATGA
43796 I S CTTTAAGCACTGTAGTTATGCTTGCCTACCCCAAAACTAT
43796 P C S ATGACGTGGCAGACGACTGAACACTTCTTTGAATAATACY
43796 P T S CGCGCCGAGGAACTGAACACTTCTTTGAATAATACY
43796 T C S TATAGTATTATTCAAAGAAGTGTTCAGTCTAGTTTTGGGGTAGGGCAAGCATAACTACAGTGCTTAAAGAG
43796 T T S TATAGTATTATTCAAAGAAGTGTTCAGTTTAGTTTTGGGGTAGGGCAAGCATAACTACAGTGCTTAAAGAG
43796 IS [CT] GTTTTCTTTTTCCATTCACCCTCTGCTGACCCTATAGTATTATTCAAAGAAGTGTTCAGT[CT]TAGTTTTGGGGTAGGGCAAGCATAACTACAGTGCTTAAAGAGAGTAATTTGTCTGGTGTG
43803 I A GCCACCTCTTCTAAGACATTCTGTACACCCCA
43803 P T A CGCGCCGAGGTCATTAGAATTAACGTCTAAACTCY
43803 P C A ATGACGTGGCAGACCCATTAGAATTAACGTCTAAACTCY
43803 T T A ATGGGAGTTTAGACGTTAATTCTAATGAGGGGTGTACAGAATGTCTTAGAAGAGGTGGCAT
43803 T C A ATGGGAGTTTAGACGTTAATTCTAATGGGGGGTGTACAGAATGTCTTAGAAGAGGTGGCAT
43803 IS [TC] TCTGCCCTCTTTGCAAGACCTAATCAAATGCCACCTCTTCTAAGACATTCTGTACACCCC[TC]CATTAGAATTAACGTCTAAACTCCCATATTACCTTGCTGTCTTACTGCACTTATTTTCTT
43808 I A GGTAGGCTGCACAGAGGTGGCGACTT
43808 P G A ATGACGTGGCAGACGTGTCACCAAAGAGCACY
43808 P C A CGCGCCGAGGCTGTCACCAAAGAGCACY
43808 T G A CCACGTGCTCTTTGGTGACACAGTCGCCACCTCGTGCAGCCTACCCC
43808 T C A CCACGTGCTCTTTGGTGACACAGTCGCCACCTCGTGCAGCCTACCCC
43808 IS [GC] GGAGTCCAGGGGACAGGGGCACAGGAAGCCCCGGGGTAGGCTGCACAGAGGTGGCGACT[GC]TGTCACCAAAGAGCACGTGGTTCTGGGAGGCTGCACAGAGCCAGGAGGGCCAGGCCTCAC
43810 I A CAATGGGCTGCCCAGGAACACAGAGCT
43810 P G A ATGACGTGGCAGACGTTTGTCCAGGGCTGY
43810 P A A CGCGCCGAGGATTTGTCCAGGGCTGY
43810 T G A CCTCCAGCCCTGGACAAAACGCTCTGTGTTCCTGGGCAGCCCATTGTG
43810 T A A CCTCCAGCCCTGGACAAAATGCTCTGTGTTCCTGGGCAGCCCATTGTG
43810 IS [GA] CACAGAGCCAGGTCCCCCTCCTGCCAAAGGCACACAATGGGCTGCCCAGGAACACAGAGC[GA]TTTGTCCAGCGCTGGAGGAAACAGAGGGCAGGGAATCCAGGCACATCCCTCCCTGGGAAA
43813 I S GAGGGCTCCATCTTGGGTGGAGCAGAAT
43813 P C S ATGACGTGGCAGACGTTAAAGGTGAGAGCCCY
43813 P T S CGCGCCGAGGATTAAAGGTGAGAGCCCTY
43813 T C S GTGGAGGGCTCTCACCTTTAACTTCTGCTCCACCCAAGATGGACCCCTCAT
43813 T T S GTGGAGGGCTCTCACCTTTAATTTCTGCTCCACCCAAGATGGACCCCTCAT
43813 IS [CT] CAAATTCCTCAGGCCTAGATCCAGGGCTGGCCTTTCTCAGTGGAGGGCTCTCACCTTTAA[CT]TTCTGCTCCACCCAAGATGGACCCCTCATCTGCCGTTCCTTTCTCCTCCCCCTACCCCGG
43814 I S CCCGCCCTGTCTGGGTGTGCAATA
43814 P A S CGCGCCGAGGTGAGAGACCAGCTTTCAY
43814 P G S ATGACGTGGCAGACCGAGAGACCAGCTTTCAY
43814 T A S GCCTTGAAAGCTGGTCTCTCAATTGCACACCCAGACAGGGCGGGCG
43814 T G S GCCTTGAAAGCTGGTCTCTCGATTGCACACCCAGACAGGGCGGGCG

FIGURE 129F

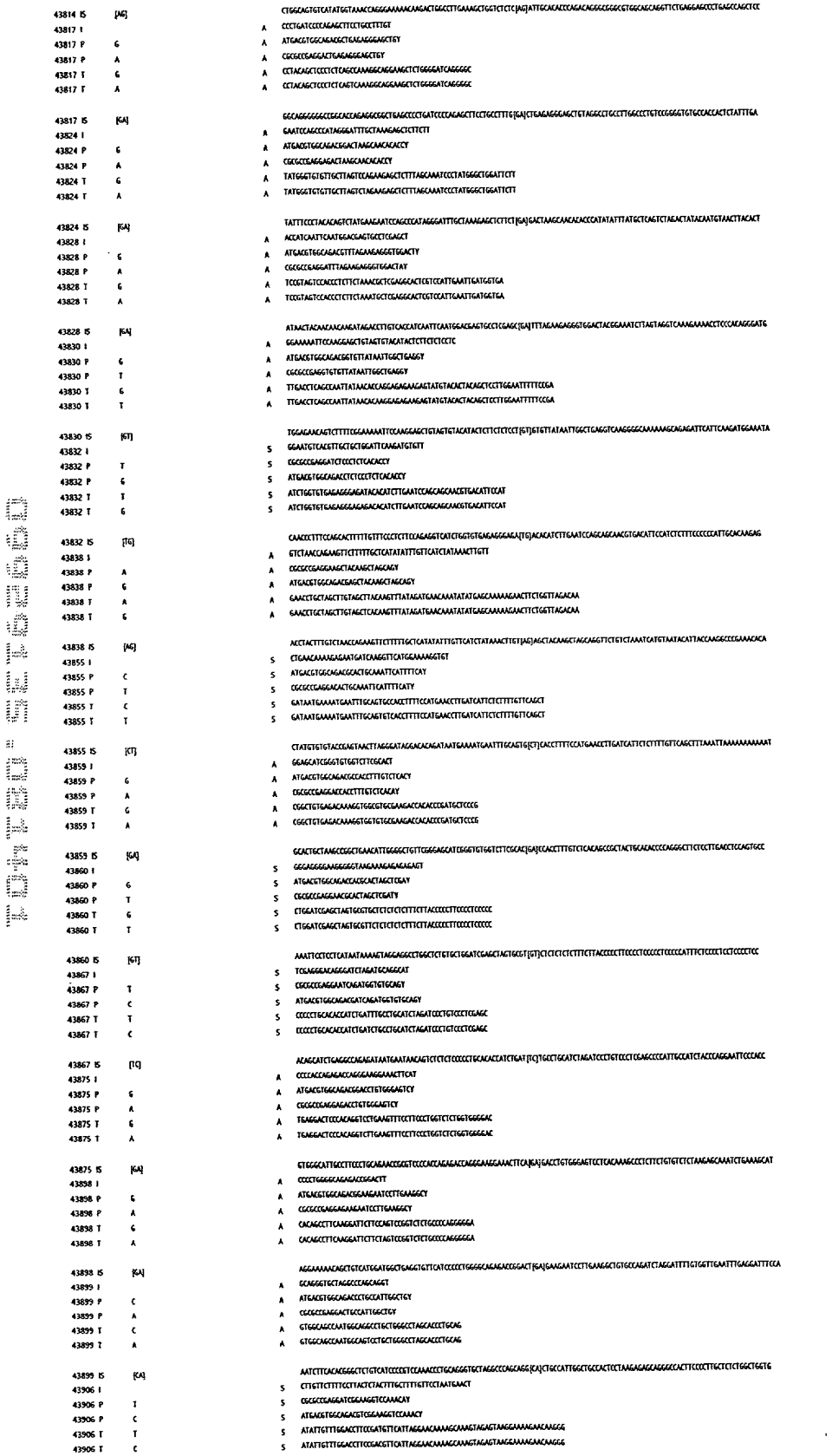


FIGURE 129F

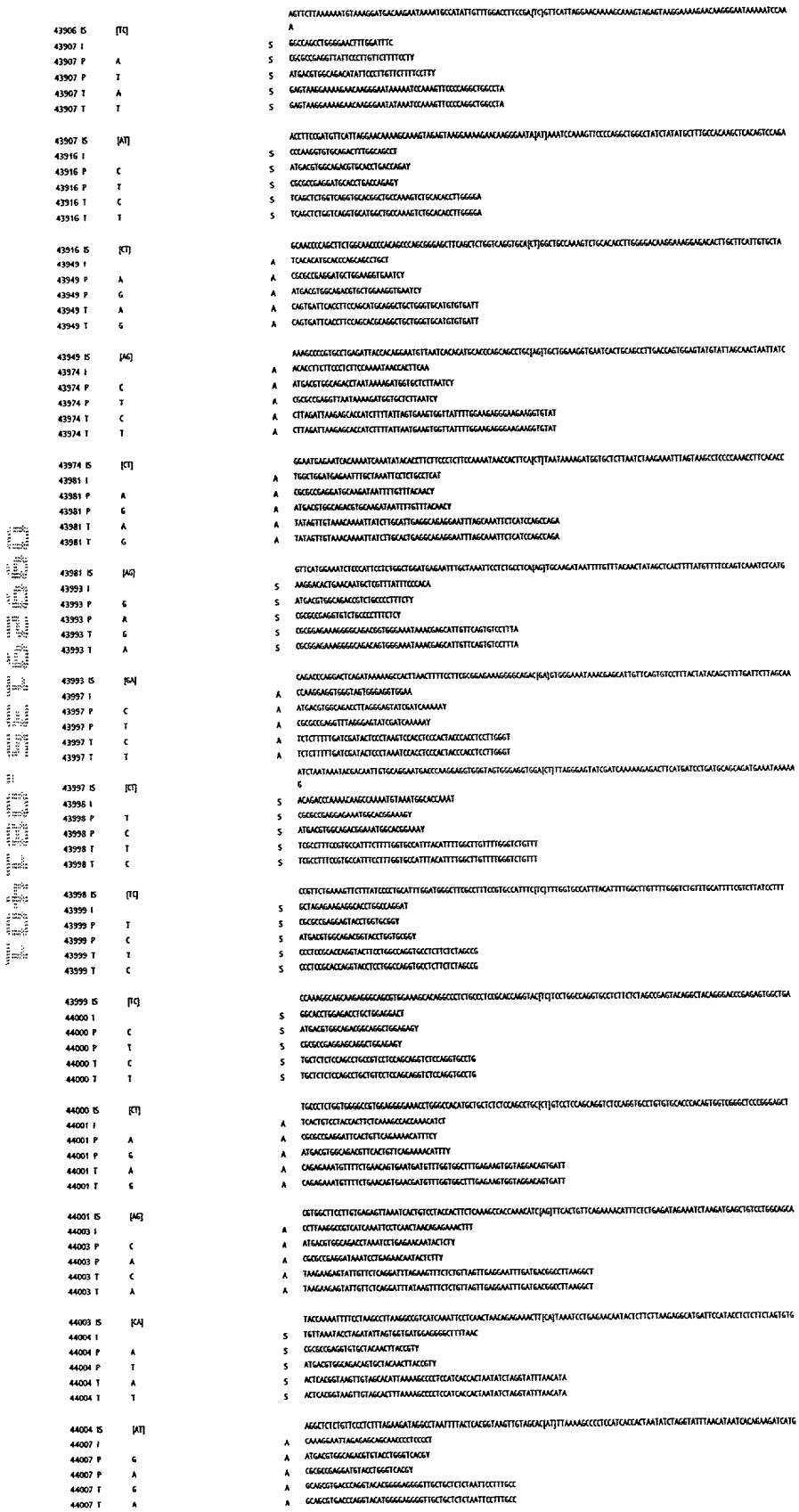


FIGURE 129F

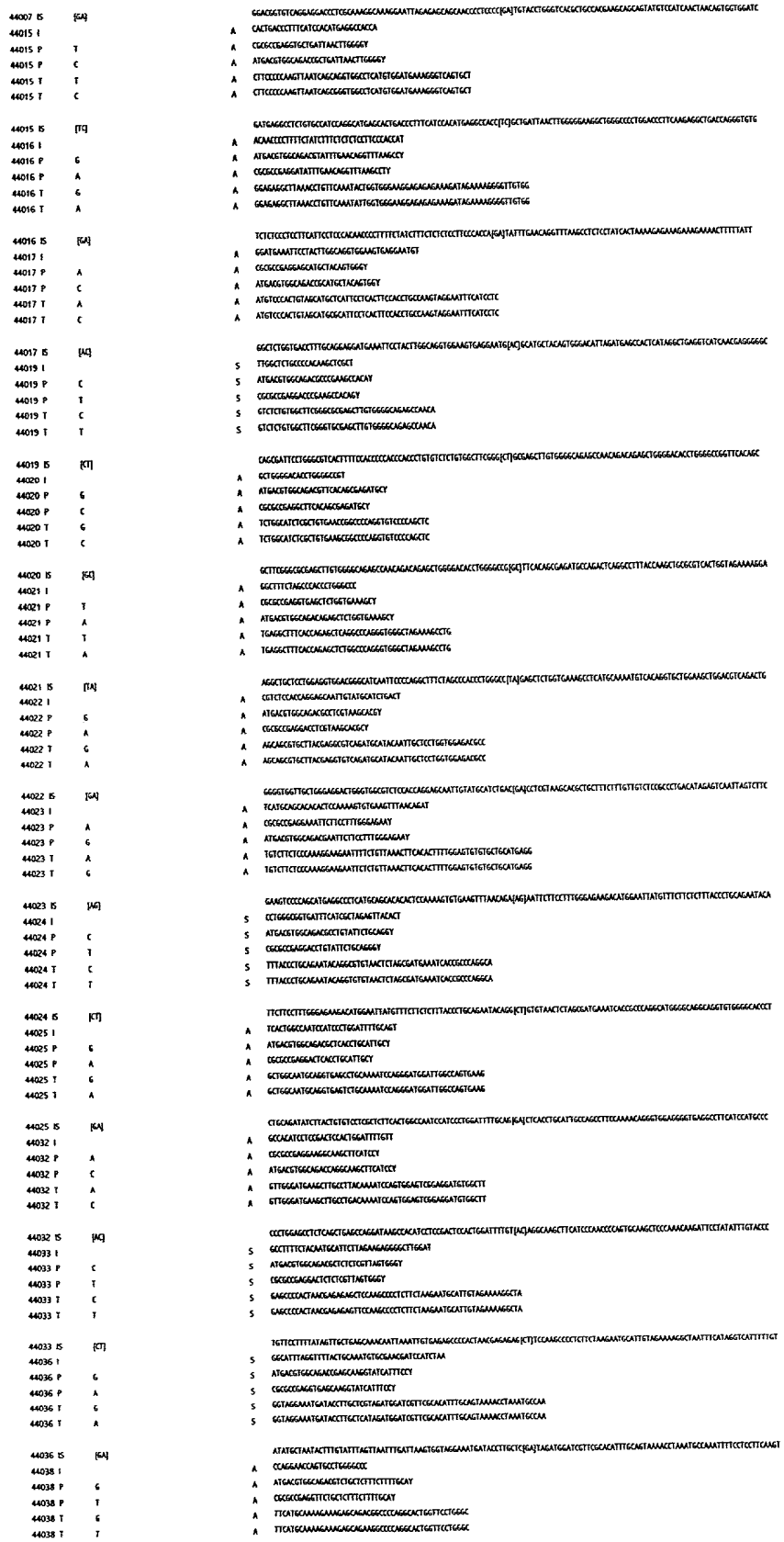


FIGURE 129F

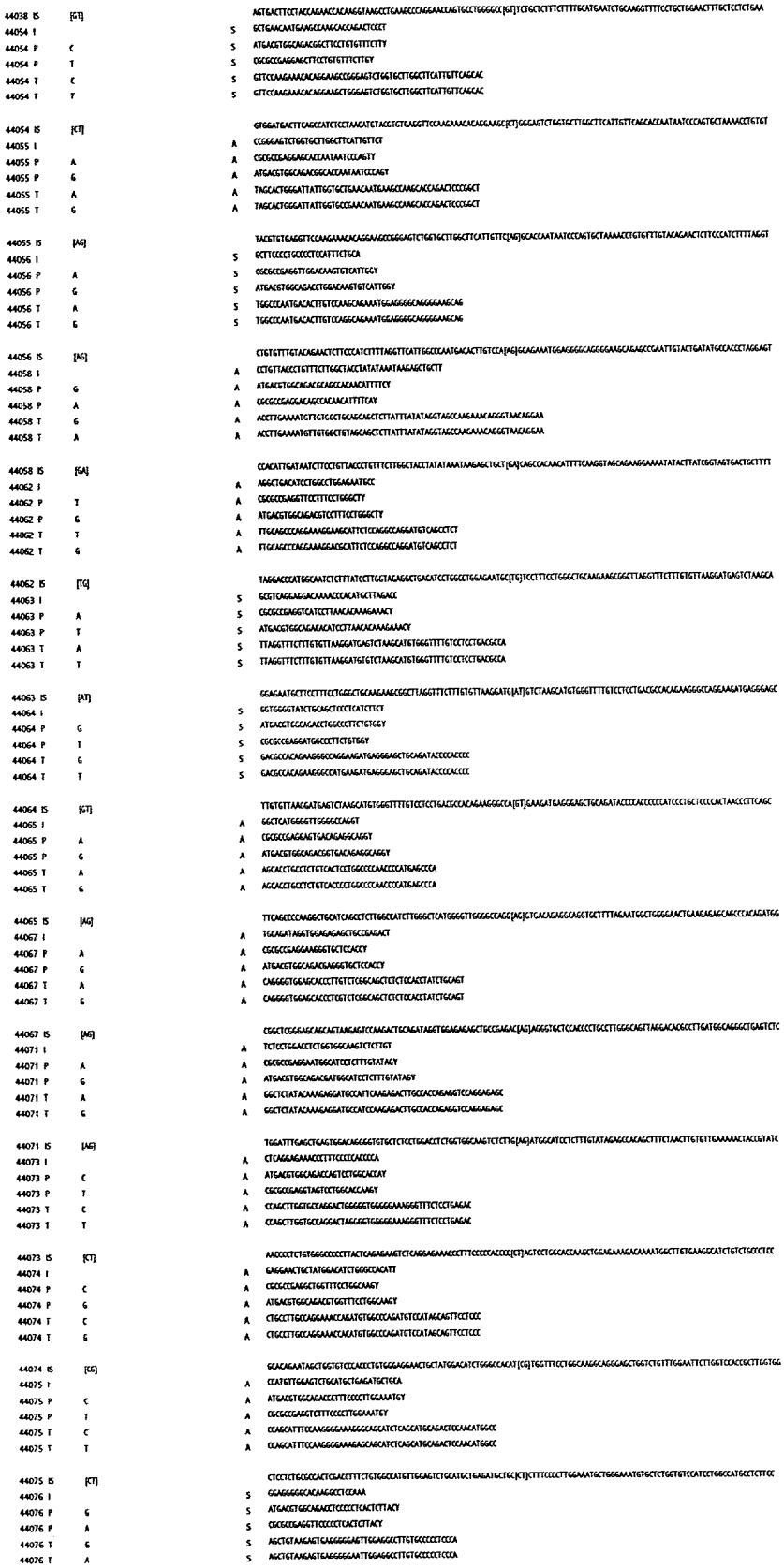
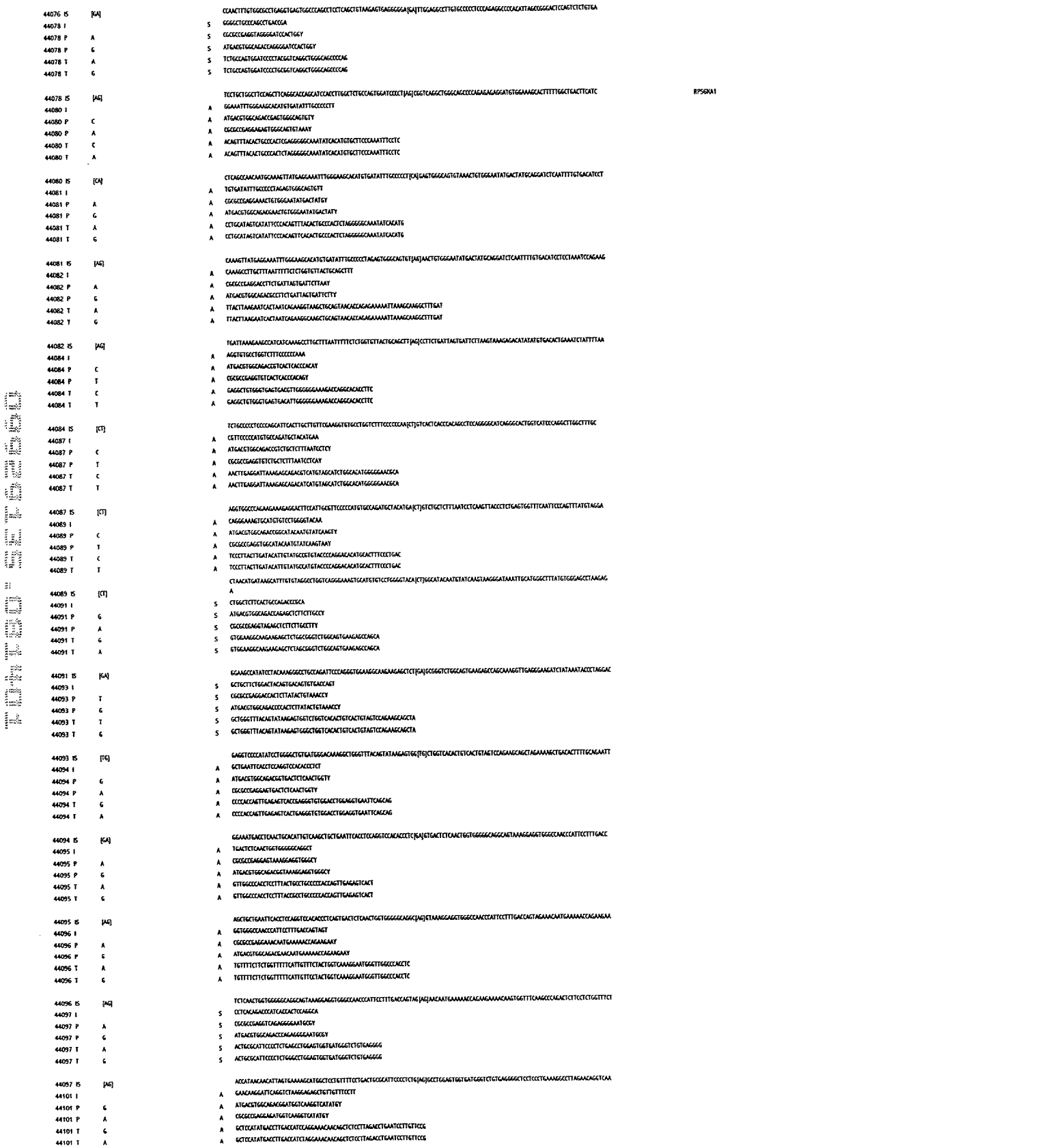

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44075 T T
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44076 T A

FIGURE 129F



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FIGURE 129F

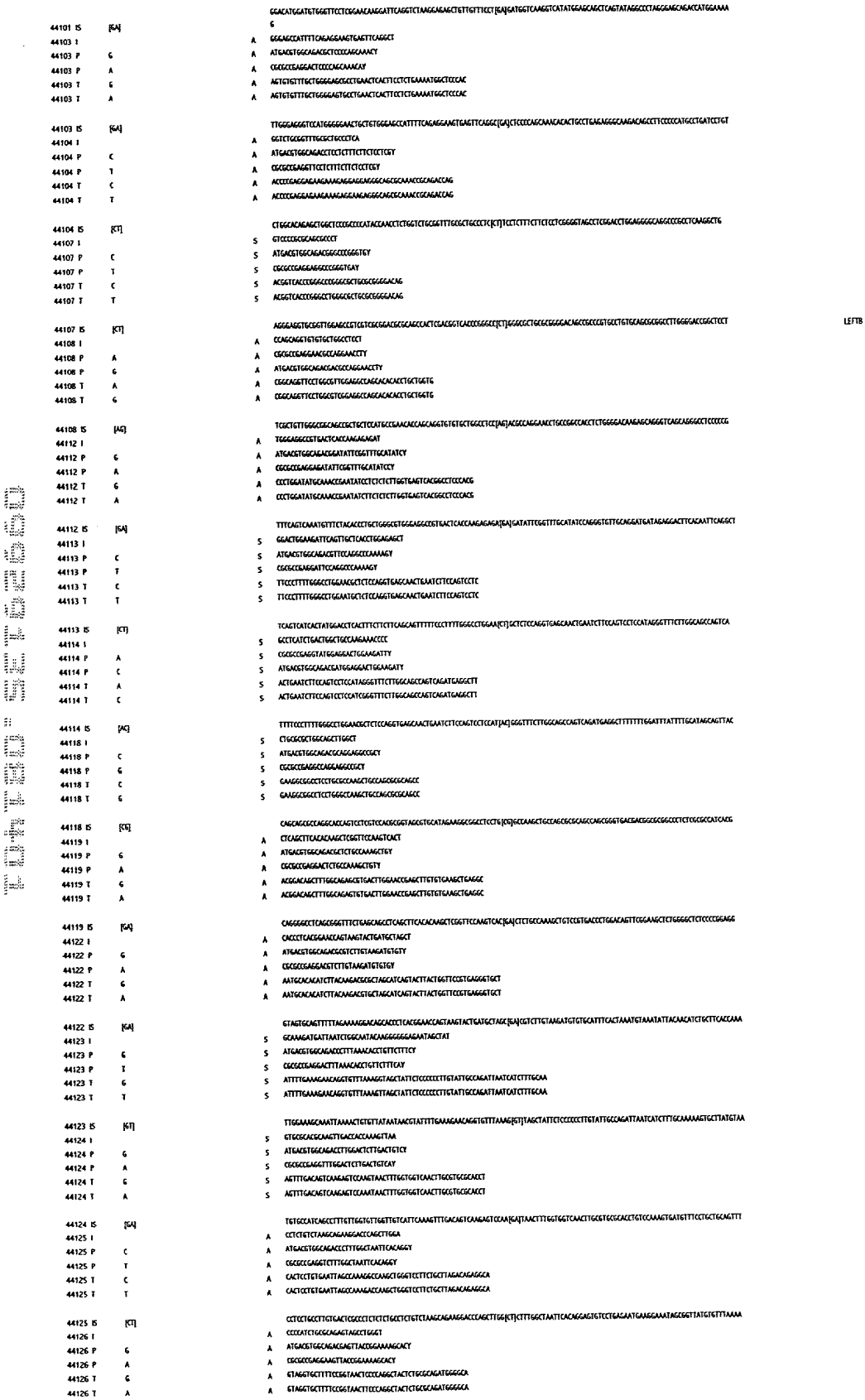
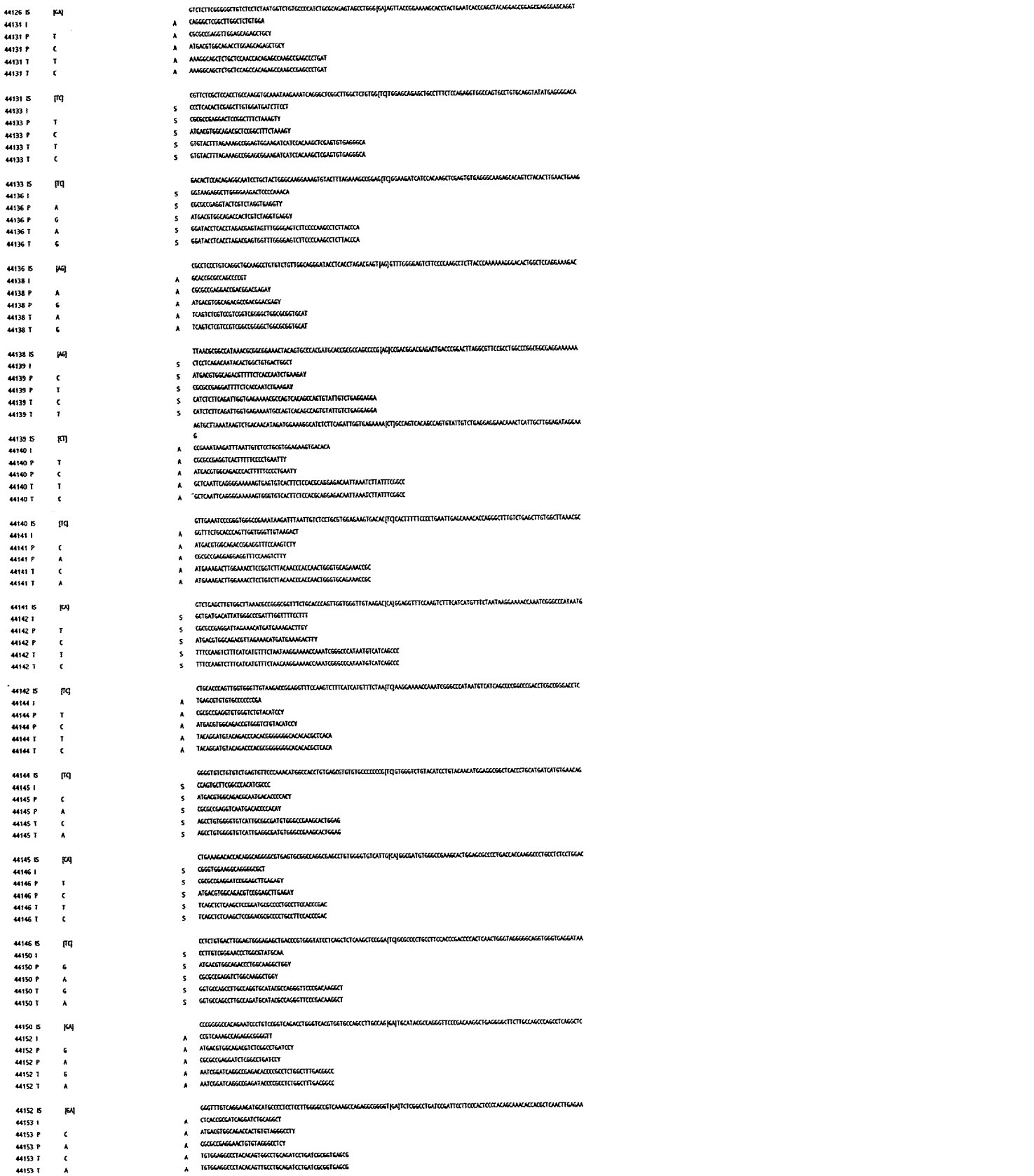


FIGURE 129F



Attorney Docket No. 10015.0001

FIGURE 129F

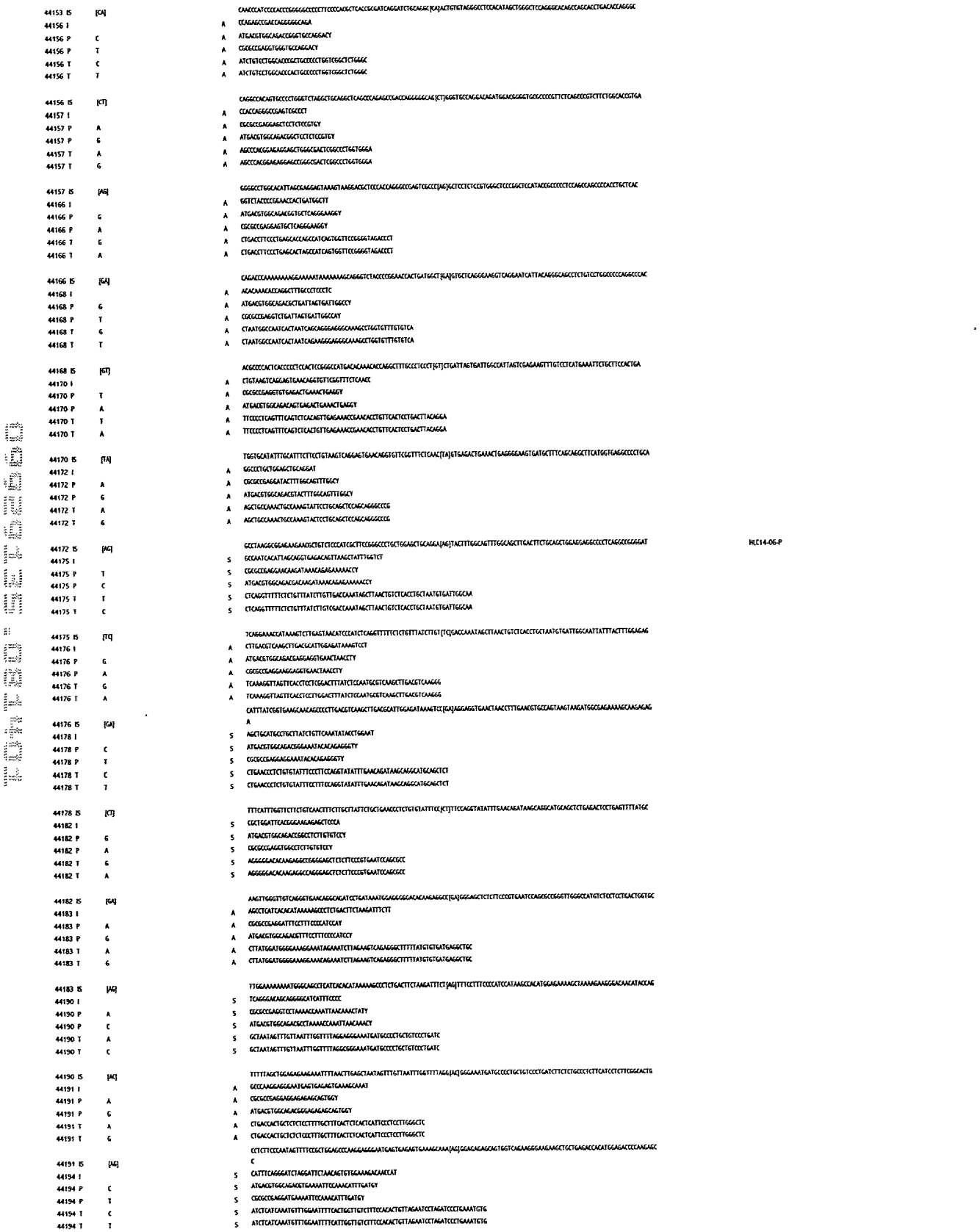


FIGURE 129F

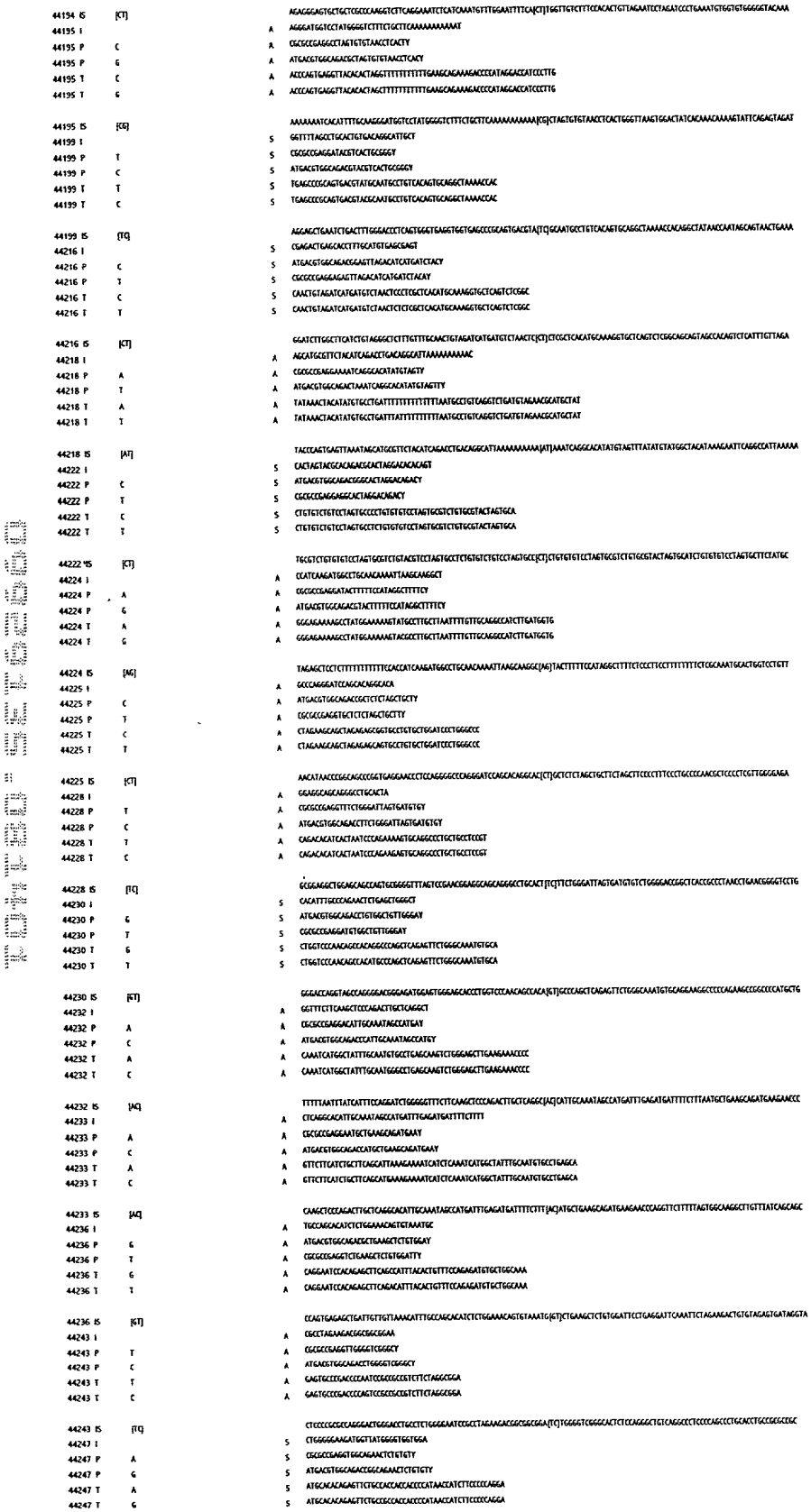
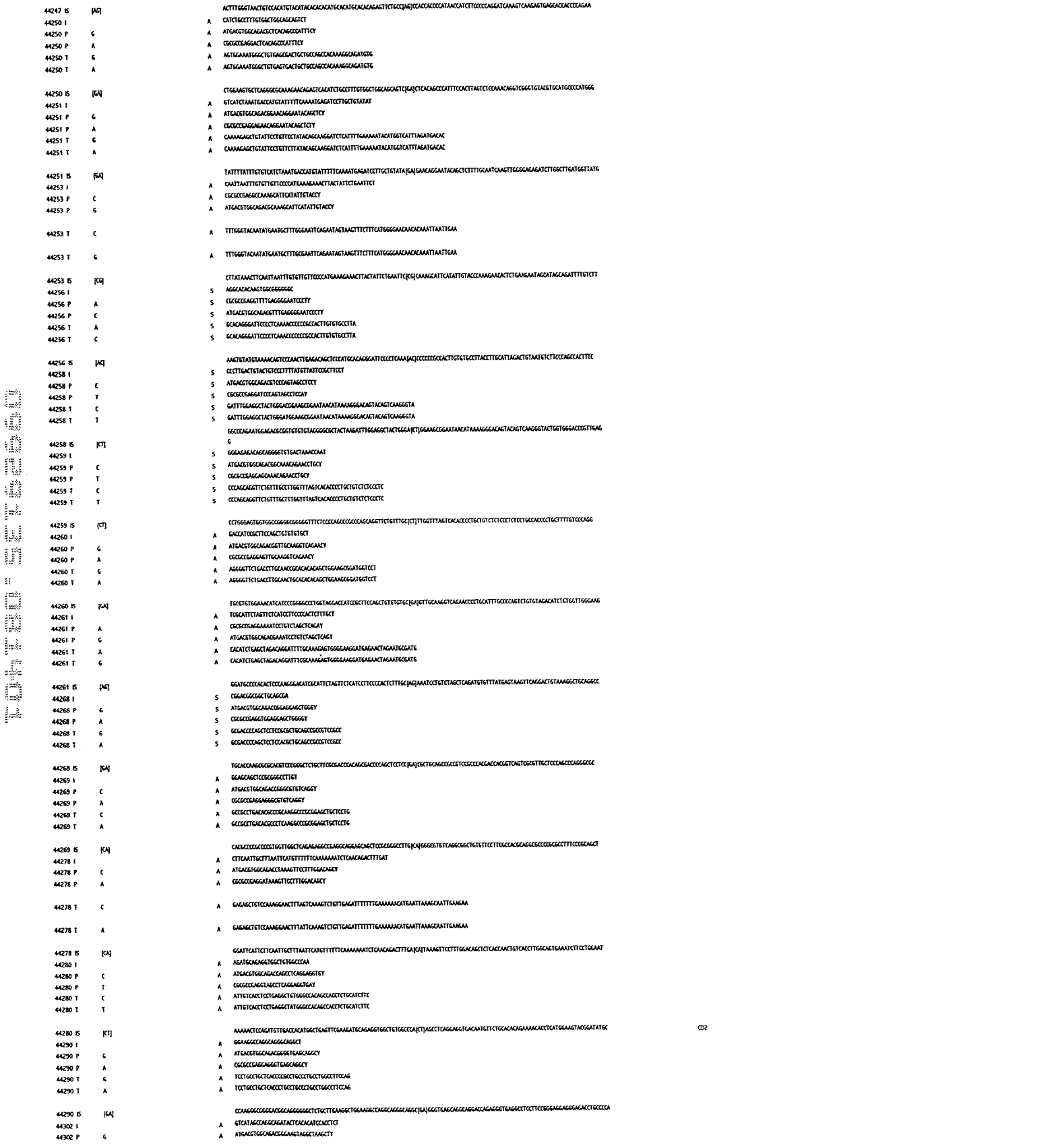


FIGURE 129F



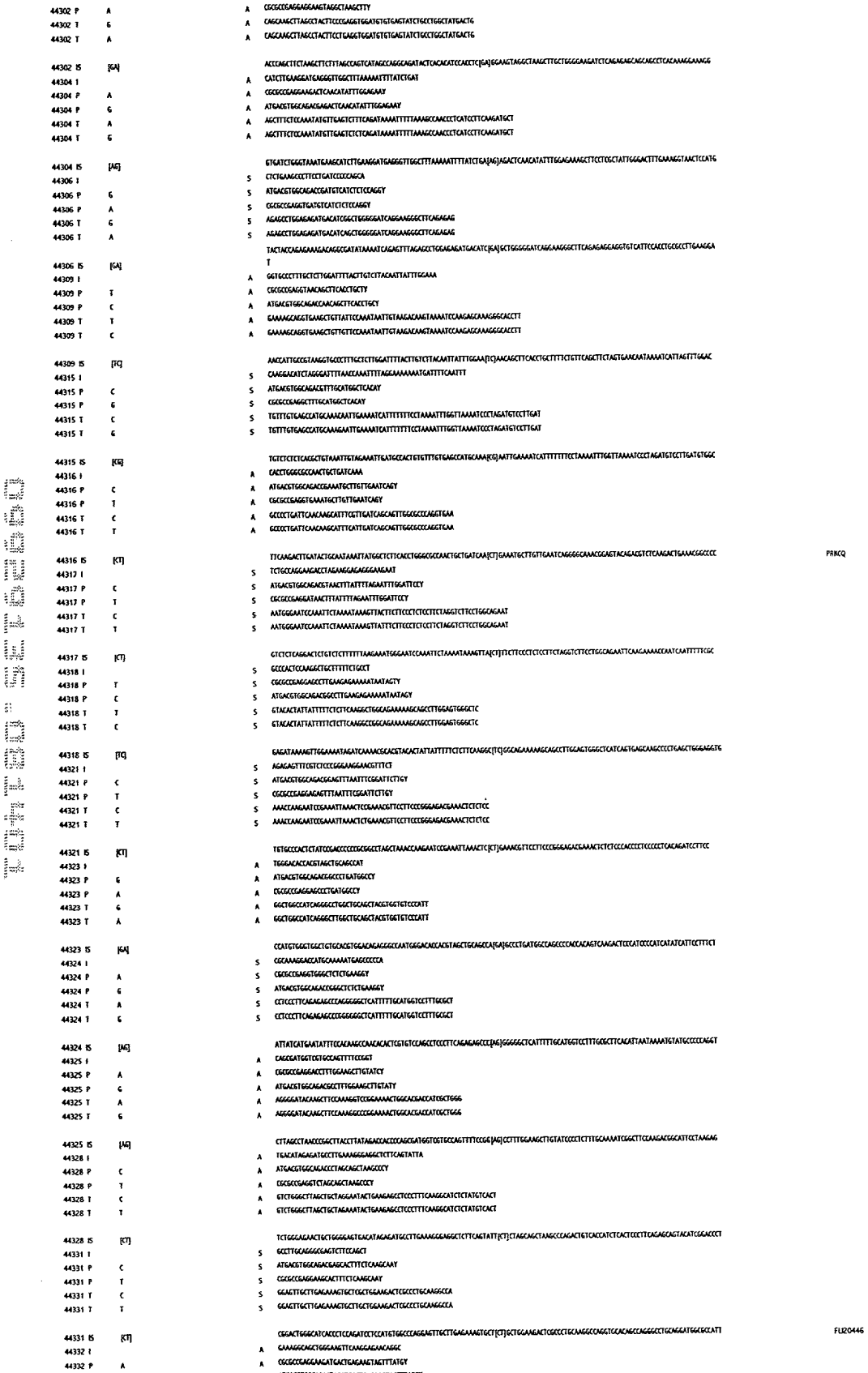

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44304 P A A CGCGCCGAGGAAGACTCAACATATTTGGAGAAY
44304 P G A ATGACGTGGCAGACGAGACTCAACATATTTGGAGAAY
44304 T A A AGCTTTCTCCAAATATGTTGAGTCTCTCAGATAAAATTTTTAAAGCCAACCCTCATCCTTCAAGATGCT
44304 T G A AGCTTTCTCCAAATATGTTGAGTCTCTCAGATAAAATTTTTAAAGCCAACCCTCATCCTTCAAGATGCT
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44306 P A S CGCGCCGAGGTGATGTCATCTCTCCAGGY
44306 T G S AGAGCCTGGAGAGATGACATCGGCTGGGGGATCAGGAAGGGCTTCAGAGAG
44306 T A S AGAGCCTGGAGAGATGACATCAGCTGGGGGATCAGGAAGGGCTTCAGAGAG
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44323 T A A GGCTGGCCATCAGGGCTTGGCTGCAGCTACGTGGTGTCCCATT
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FIGURE 129F

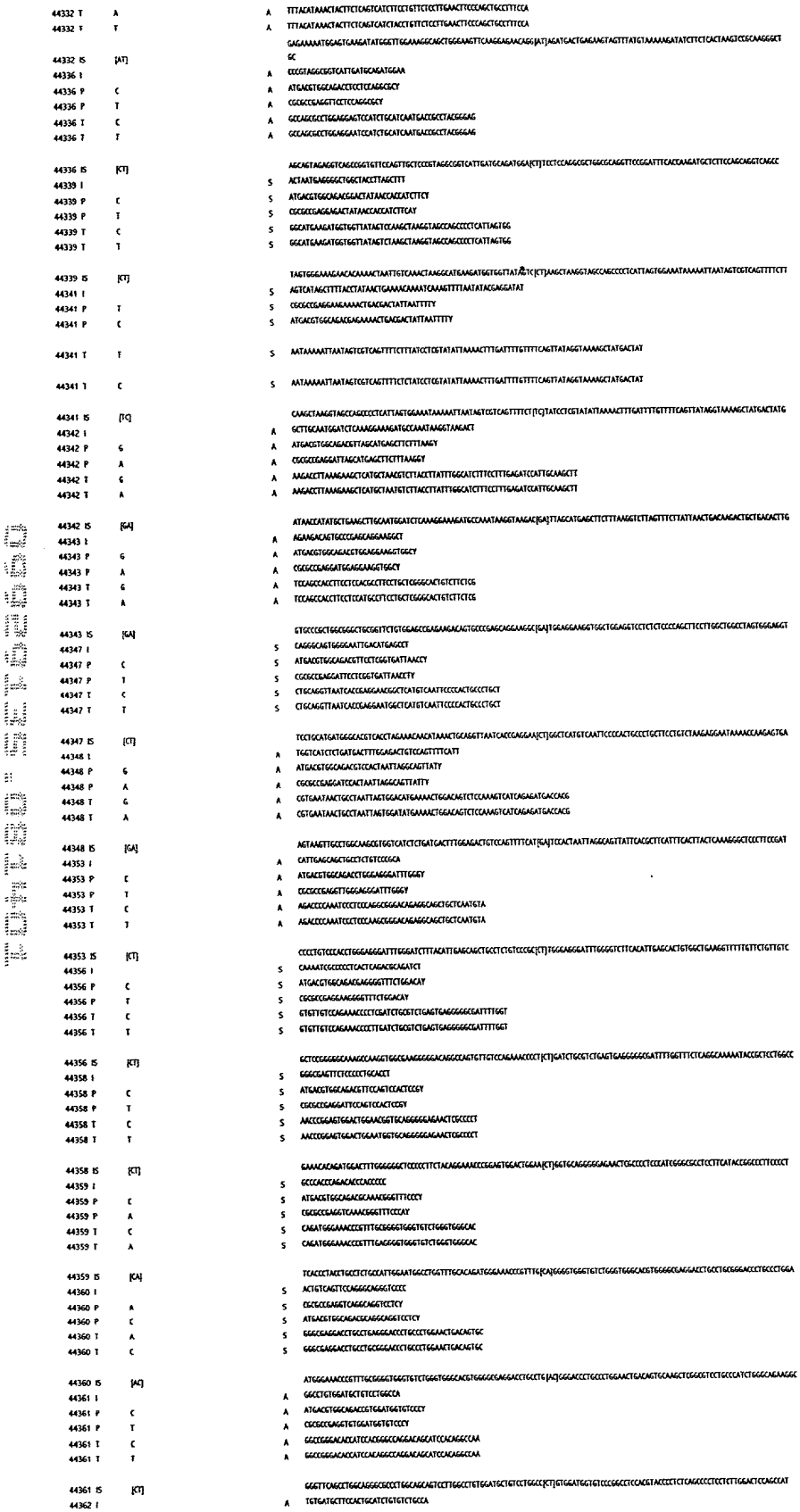


FIGURE 129F

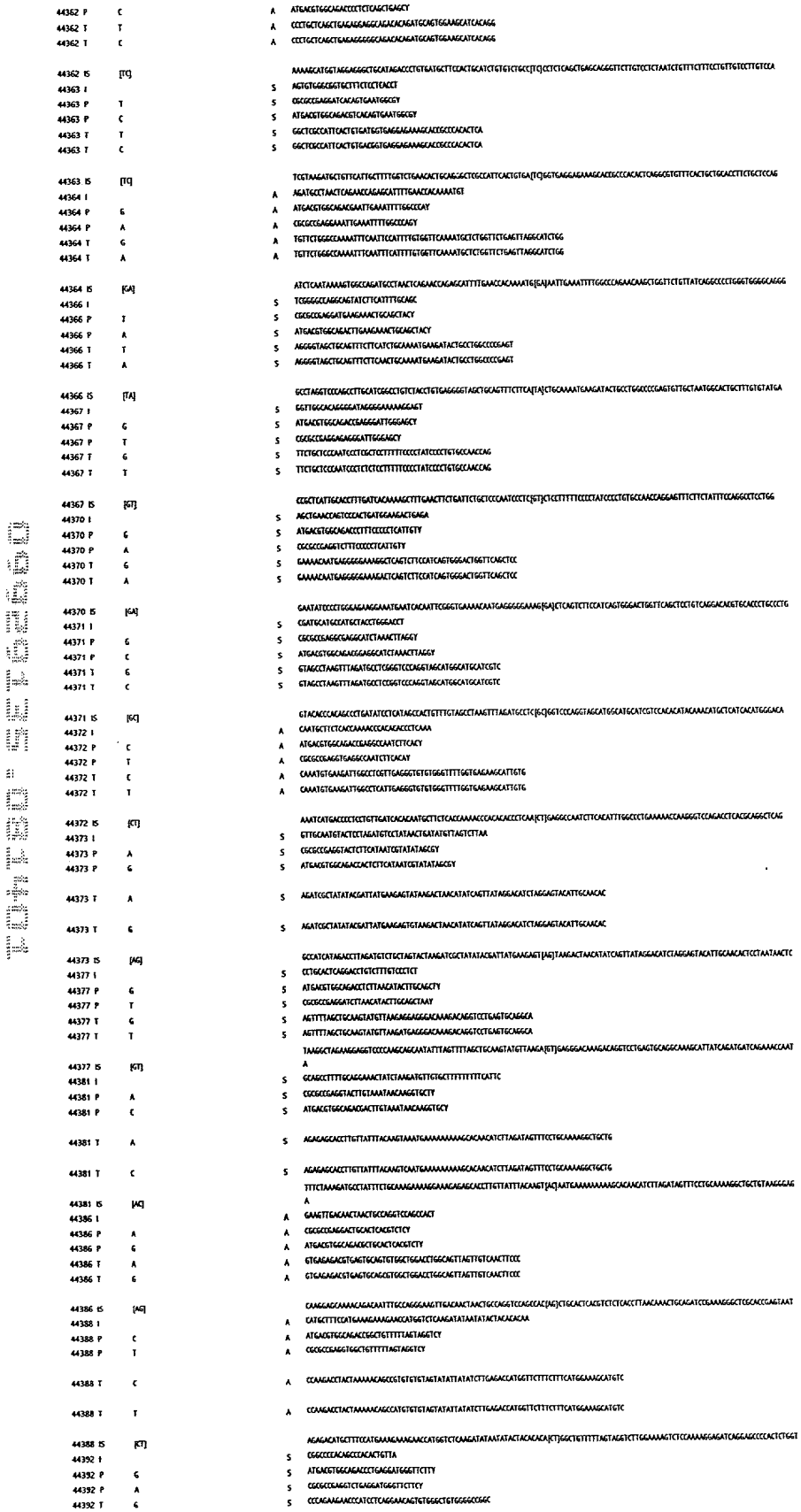


FIGURE 129F

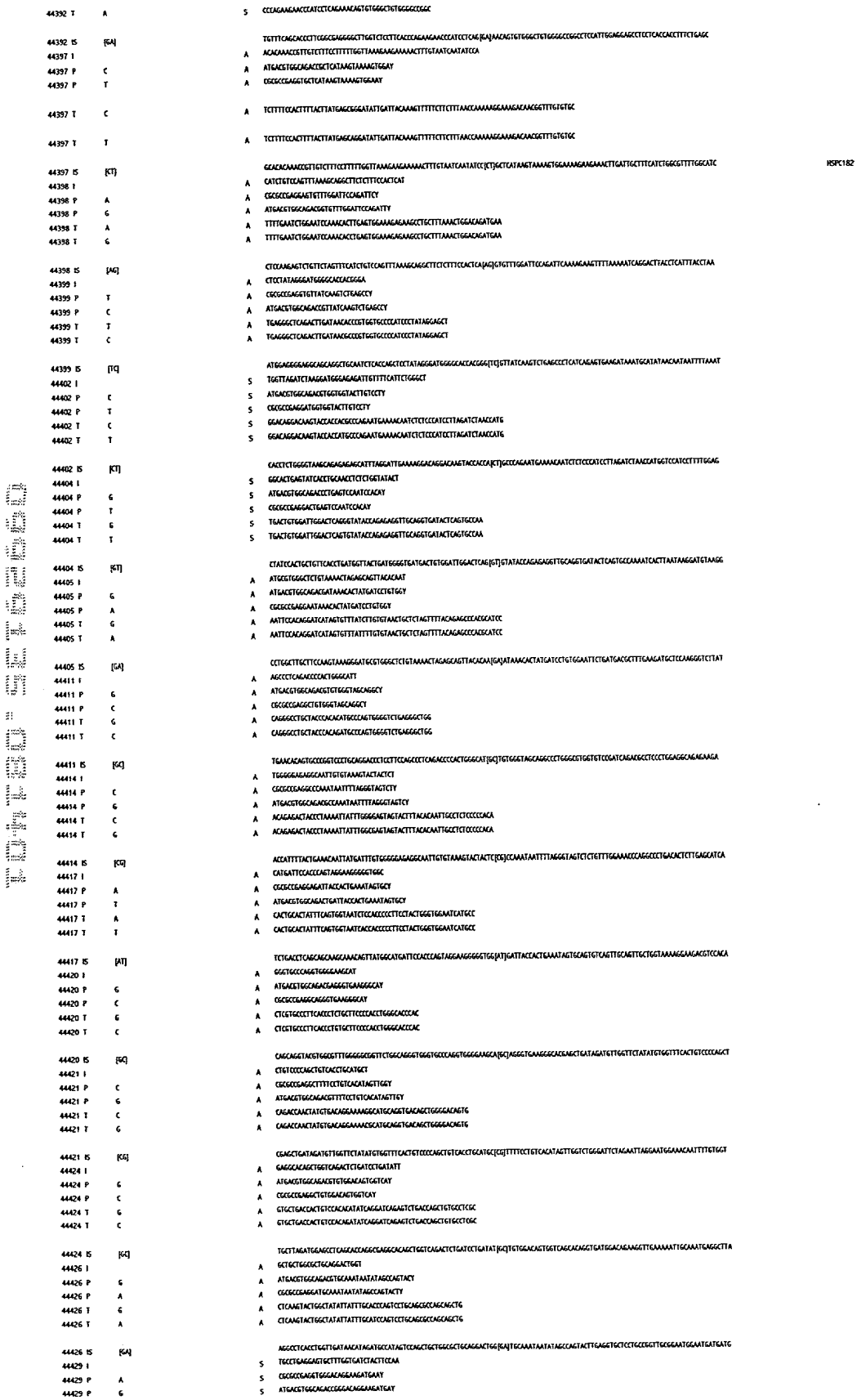

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44398 P G A ATGACGTGGCAGACGGTGTTTGGATTCCAGATTY
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44411 I A AGCCCTCAGACCCCACTGGGCATT
44411 P G A ATGACGTGGCAGACGTGTGGGTAGCAGGCY
44411 P C A CGCGCCGAGGCTGTGGGGTAGCAGGCY
44411 T G A CAGGGCCTGCTACCCACACATGCCCAGTGGGGTCTGAGGGCTGG
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44411 IS [GC] TGAACACAGTGCCCGGTCCCTGCAGGACCCTCCTTCCAGCCCTCAGACCCCACTGGGCAT[GC]TGTGGGTAGCAGGCCCTGGGCGTGGTGTCCGATCAGACGCCTCCCTGGAGGCAGAGAAGA
44414 I A TGGGGGAAGAGGCAATTGTGTAAAGTACTACTCT
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44420 I A GGGTGCCCAGGTGGGGAAGCAT
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FIGURE 129F

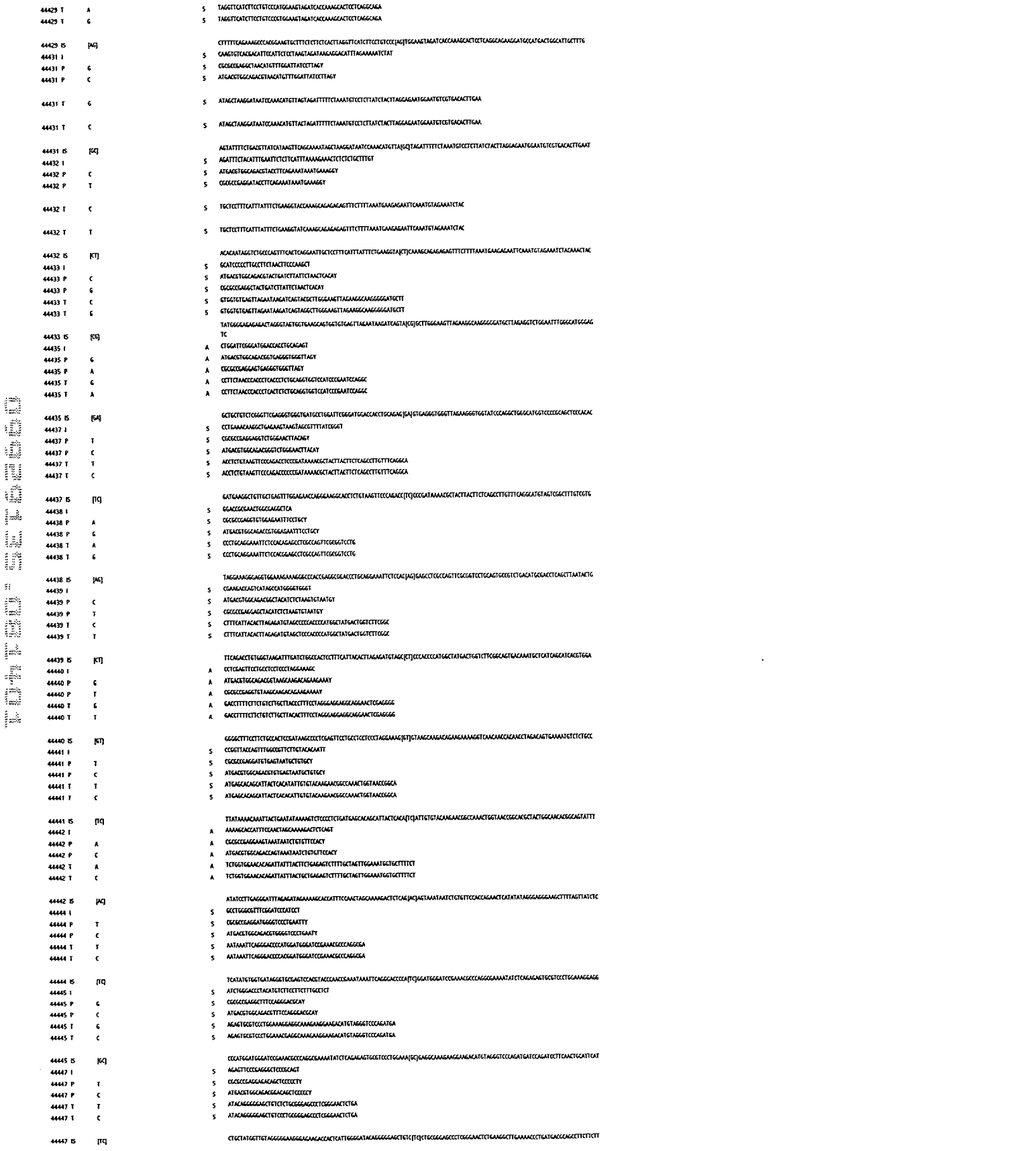

44429 T A S TAGGTTCATCTTCCTGTCCCATGGAAGTAGATCACCAAAGCACTCCTCAGGCAGA
44429 T G S TAGGTTCATCTTCCTGTCCCCTGGAAGTAGATCACCAAAGCACTCCTCAGGCAGA
44429 IS [AG] CTTTTTCAGAAAGCCCACGGAAGTGCTTTCTCTTCTCACTTAGGTTCATCTTCCTGTCCC[AG]TGGAAGTAGATCACCAAAGCACTCCTCAGGCAGAAGGATGCCATGACTGGCATTGCTTTG
44431 I S CAAGTGTCACBACATTCCATTCTCCTAAGTAGATAAGAGGACATTTAGAAAAATCTAT
44431 P G S CGCGCCGAGGCTAACATGTTTGGATTATCCTTAGY
44431 P C S ATGACGTGGCAGACGTAACATGTTTGGATTATCCTTAGY
44431 T G S ATAGCTAAGGATAATCCAAACATGTTAGTAGATTTTTCTAAATGTCCTCTTATCTACTTAGGAGAATGGAATGTCGTGACACTTGAA
44431 T C S ATAGCTAAGGATAATCCAAACATGTTACTAGATTTTTCTAAATGTCCTCTTATCTACTTAGGAGAATGGAATGTCGTGACACTTGAA
44431 IS [GC] AGTATTTTCTGAGTTATCATAAGTTCAGCAAAATAGCTAAGGATAATCCAAACATGTTA[GC]TAGATTTTTCTAAATGTCCTCTTATCTACTTAGGAGAATGGAATGTCGTGACACTTGAAT
44432 I S AGATTTCTACATTTGAATTCTCTTCATTTAAAAGAAACTCTCTCTGCTTTGT
44432 P C S ATGACGTGGCAGACGTACCTTCAGAAATAAATGAAAGGY
44432 P T S CGCGCCGAGGATACCTTCAGAAATAAATGAAAGGY
44432 T C S TGCTCCTTTCATTTATTTCTGAAGGTACCAAAGCAGAGAGAGTTTCTTTTAAATGAAGAGAATTCAAATGTAGAAATCTAC
44432 T T S TGCTCCTTTCATTTATTTCTGAAGGTATCAAAGCAGAGAGAGTTTCTTTTAAATGAAGAGAATTCAAATGTAGAAATCTAC
44432 IS [CT] ACACAATAGGTCTGCCCAGTTTCAACTCAGGAATTGCTCCTTCATTTATTTCTGAAGGTA[CT]CAAAGCAGAGAGAGTTTCTTTTAAATGAAGAGAATTCAAATGTAGAAATCTACAAACTAC
44433 I S GCATCCCCCTTGCCTTCTAACTTCCCAAGCT
44433 P C S ATGACGTGGCAGACGTACTGATCTTATTCTAACTCACAY
44433 P G S CGCGCCGAGGCTACTGATCTTATTCTAACTCACAY
44433 T C S GTGGTGTGAGTTAGAATAAGATCAGTACGCTTGGGAAGTTAGAAGGCAAGGGGGATGCTT
44433 T G S GTGGTGTGAGTTAGAATAAGATCAGTAGGCTTGGGAAGTTAGAAGGCAAGGGGGATGCTT
44433 IS [CG] TATGGGAGAGAGAACTAGGGTAGTGGTGAAGCAGTGGTGTGAGTTAGAATAAGATCAGTA[CG]GCTTGGGAAGTTAGAAGGCAAGGGGGATGCTTAGAGGTCTGGAATTTGGGCATGGGAG
TC
44435 I A CTGGATTCGGGCATGGACCACCTGCAGAGT
44435 P G A ATGACGTGGCAGACGGTGAGGGTGGGTTAGY
44435 P A A CGCGCCGAGGAGTGAGGGTGGGTTAGY
44435 T G A CCTTCTAACCCACCCTCACCCTCTGCAGGTGGTCCATCCCGAATCCAGGC
44435 T A A CCTTCTAACCCACCCTCACTCTCTGCAGGTGGTCCATCCCGAATCCAGGC
44435 IS [GA] GCTGCTGTCTCGGGTTCGAGGGTGGGTGATGCCTGGATTCGGGATGGACCACCTGCAGAG[GA]GTGAGGGTGGGTTAGAAGGGTGGTATCCCAGGCTGGGCATGGTCCCCGCAGCTCCCACAC
44437 I S CCTGAAACAAGGCTGAGAAGTAAGTAGCGTTTTATCGGGT
44437 P T S CGCGCCGAGGAGGTCTGGGAACTTACAGY
44437 P C S ATGACGTGGCAGACGGGTCTGGGAACTTACAY
44437 T T S ACCTCTGTAAGTTCCCAGACCTCCCGATAAAAGCTACTTACTTCTCAGCCTTGTTTCAGGCA
44437 T C S ACCTCTGTAAGTTCCCAGACCCCCCGATAAAAGCTACTTACTTCTCAGCCTTGTTTCAGGCA
44437 IS [TC] GATGAAGGCTGTTGCTGAGTTTGGAGAACCAGGGAAGGCACCTCTGTAAGTTCCCAGACC[TC]CCCGATAAAACGCTACTTACTTCTCAGCCTTGTTTCAGGCATGTAGTCGGCTTTGTCGTG
44438 I S GGACCGCGAACTGGGCGAGGCTCA
44438 P A S CGCGCCGAGGTGTGGAGAATTTCCTGCY
44438 P G S ATGACGTGGCAGACGTGGAGAATTTCCTGCY
44438 T A S CCCTGCAGGAAATTCTCCACAGAGCCTCGCCAGTTCGGGGTCCTG
44438 T G S CCCTGCAGGAAATTCTCCACGGAGCCTCGCCAGTTCGGGGTCCTG
44438 IS [AG] TAGGAAAGGAGGTGGAAAGAAAGGCCCACCGAGGCGACCCTGCAGGAAATTCTCCAC[AG]GAGCCTCGCCAGTTCGCGGTCCTGCAGTGGGTCTGACATGCGACCTCAGCTTAATACTG
44439 I S CGAAGACCAGTCATAGCCATGGGGTGGGT
44439 P C S ATGACGTGGCAGACGGCTACATCTCTAAGTGTAATGY
44439 P T S CGCCCCGAGGAGCTACATCTCTAAGTGTAATGY
44439 T C S CTTTCATTACACTTAGAGATGTAGCCCCCACCCCATGGCTATGACTGGTCTTCGGC
44439 T T S CTTTCATTACACTTAGAGATGTAGCTCCCACCCCATGGCTATGACTGGTCTTCGGC
44439 IS [CT] TTCAGACCTGTGGGTAAGATTTGATCTGGCCACTCCTTTCATTACACTTAGAGATGTAGC[CT]CCCACCCCATGGCTATGACTGGTCTTCGGCAGTGACAAATGCTCATCAGCATCACGTGGA
44440 I A CCTCGAGTTCCTGCCTCCTCCCTAGGAAAGC
44440 P G A ATGACGTGGCAGACGGTAAGCAAGACAGAAGAAAY
44440 P T A CGCGCCGAGGTGTAAGCAAGACAGAAGAAAAY
44440 T G A GACCTTTCTTCTCTGTCTTGCTTACCCTTTCCTAGGGAGGAGGCAGGAACTCGAGGGG
44440 T T A GACCTTTTCTTCTGTCTTGCTTACACTTTCCTAGGGAGGAGGCAGGAACTCGAGGGG
44440 IS [GT] GGGGCTTTCCTTCTGCCACTCCGATAAGCCCCTCGAGTTCCTGCCTCCTCCCTAGGAAAG[GT]GTAAGCAAGACAGAAGAAAAGGTCAACAACCACAACCTAGACAGTGAAAATGTCTCTGCC
44441 I S CCGGTTACCAGTTTGGCCGTTCTTGTACACAATT
44441 P T S CGCGCCGAGGATGTGAGTAATGCTGTGCY
44441 P C S ATGACGTGGCAGACGTGTGAGTAATGCTGTGCY
44441 T T S ATGAGCACAGCATTACTCACATATTGTGTACAAGAACGGCCAAACTGGTAACCGGCA
44441 T C S ATGAGCACAGCATTACTCACACATTGTGTACAAGAACGGCCAAACTGGTAACCGGCA
44441 IS [TC] TTATAAAACAAATTACTGAATATAAAAGTCTCCCCTCTGATGAGCACAGCATTACTCACA[TC]ATTGTGTACAAGAACGGCCAAACTGGTAACCGGCAGCGCTACTGGCAACACGGCAGTATTT
44442 I A AAAAGCACCATTTCCAACTAGCAAAAGACTCTCAGT
44442 P A A CGCGCCGAGGAAGTAAATAATCTGTGTTCCACY
44442 P C A ATGACGTGGCAGACAGTAAATAATCTGTGTTCCACY
44442 T A A TCTGGTGGAACACAGATTATTACTCTCGAGAGTCTTTTGCTAGTTGGAAATGGTGCTTTTCT
44442 T C A TCTGGTGGAACACAGATTATTACTGCTGAGAGTCTTTTGCTAGTTGGAAATGGTGCTTTTCT
44442 IS [AC] ATATCCTTGAGGGATTTAGAGATAGAAAAGCACCATTTCCAACTAGCAAAAGACTCTCAG[AC]AGTAAATAATCTGTGTTCCACCAGAACTCATATATAGGGAGGGAAGCTTTTAGTTATCTC
44444 I S GCCTGGGCGTTTCGGATCCCATCCT
44444 P T S CGCGCCGAGGATGGGGTCCCTGAATTY
44444 P C S ATGACGTGGCAGACGTGGGGTCCCTGAATY
44444 T T S AATAAATTCAGGGACCCCATGGATGGGATCCGAAACGCCCAGGCGA
44444 T C S AATAAATTCAGGGACCCCACGGATGGGATCCGAAACGCCCAGGCGA
44444 IS [TC] TCATATGTGGTGATAGGGTGCGAGTCCAGGTACCCAACCGAAATAAATTCAGGGACCCCA[TC]GGATGGGATCCGAAACGCCCAGGGGAAAATATCTCAGAGAGTGCGTCCCTGGAAAGGAGG
44445 I S ATCTGGGACCCTACATGTCTTCCTTCTTTGCCTCT
44445 P G S CGGGCCGAGGCTTTCCAGGGACGCAY
44445 P C S ATGACGTGGCAGACGTTTCCAGGGACGCAY
44445 T G S AGAGTGCGTCCCTGGAAAGGAGGCAAAGAAGGAAGACATGTAGGGTCCCAGATGA
44445 T C S AGAGTGCGTCCCTGGAAACGAGGCAAAGAAGGAAGACATGTAGGGTCCCAGATGA
44445 IS [GC] CCCATGGATGGGATCCGAAACGCCCAGGCGAAAATATCTCAGAGAGTGGGTCCCTGGAAA[GC]GAGGCAAAGAAGGAAGACATGTAGGGTCCCAGATGATCCAGATCCTTCAACTGCATTCAT
44447 I S AGAGTTCCCCGAGGGCTCCCGCAGT
44447 P T S CGCGCCCAGGAGACAGCTCCCCCTY
44447 P C S ATGACGTGGCAGACGGACAGCTCCCCCY
44447 T T S ATACAGGGGGAGCTGTCCTCTGCGGGAGCCCTCGGGAACTCTGA
44447 T C S ATACAGGGGGAGCTGTCCCTGCGGGAGCCCTCGGGAACTCTGA
44447 IS [TC] CTGCTATGGTTGTAGGGGGAAGGGAGAAGACCACTCATTGGGGATACAGGGGGAGCTGTC[TC]CTGCGGGAGCCCTCGGGAACTCTGAAGGCTTGAAAACCCTGATGACGCAGCCTCTCTCTT

FIGURE 129F

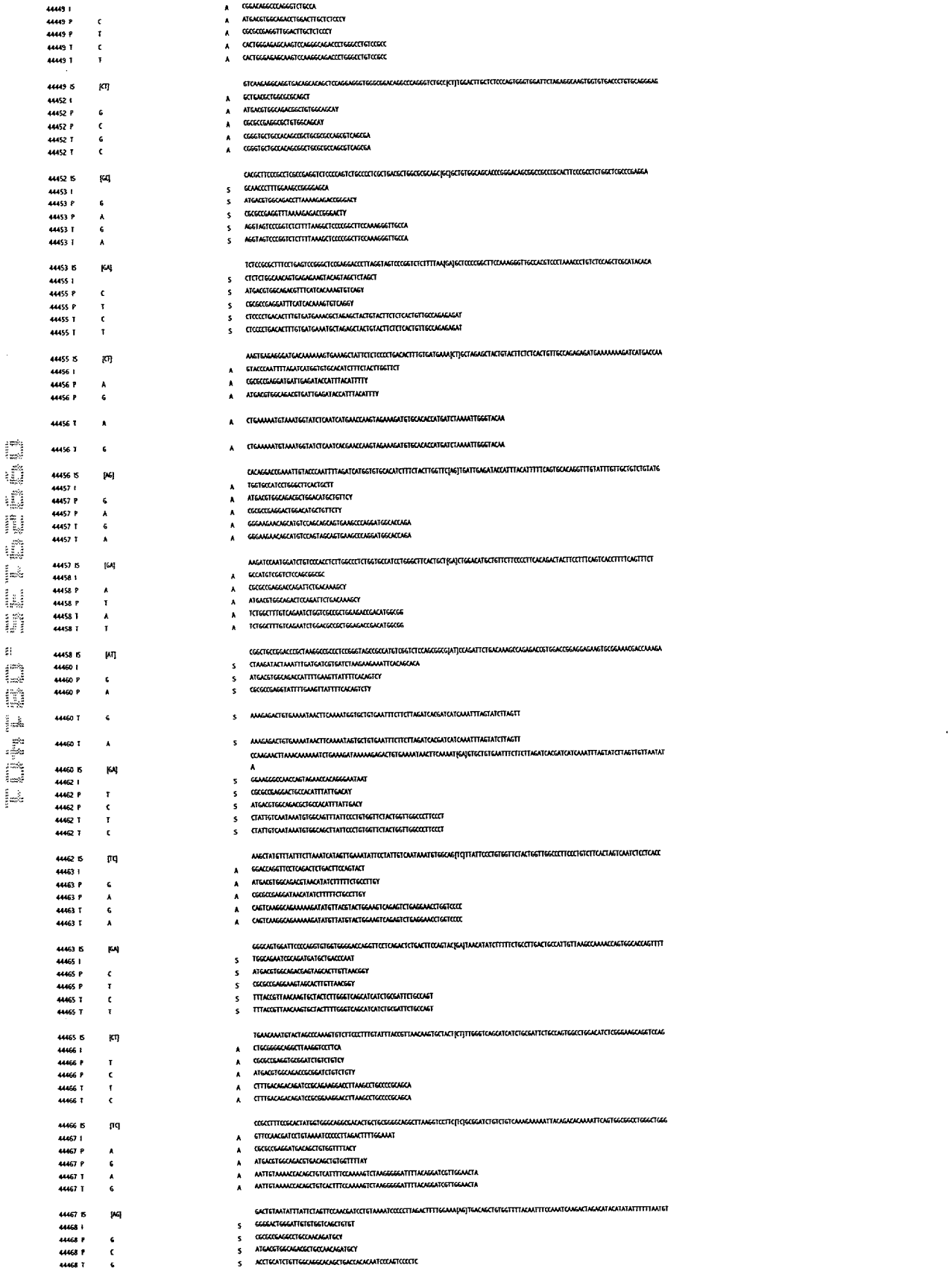


FIGURE 129F

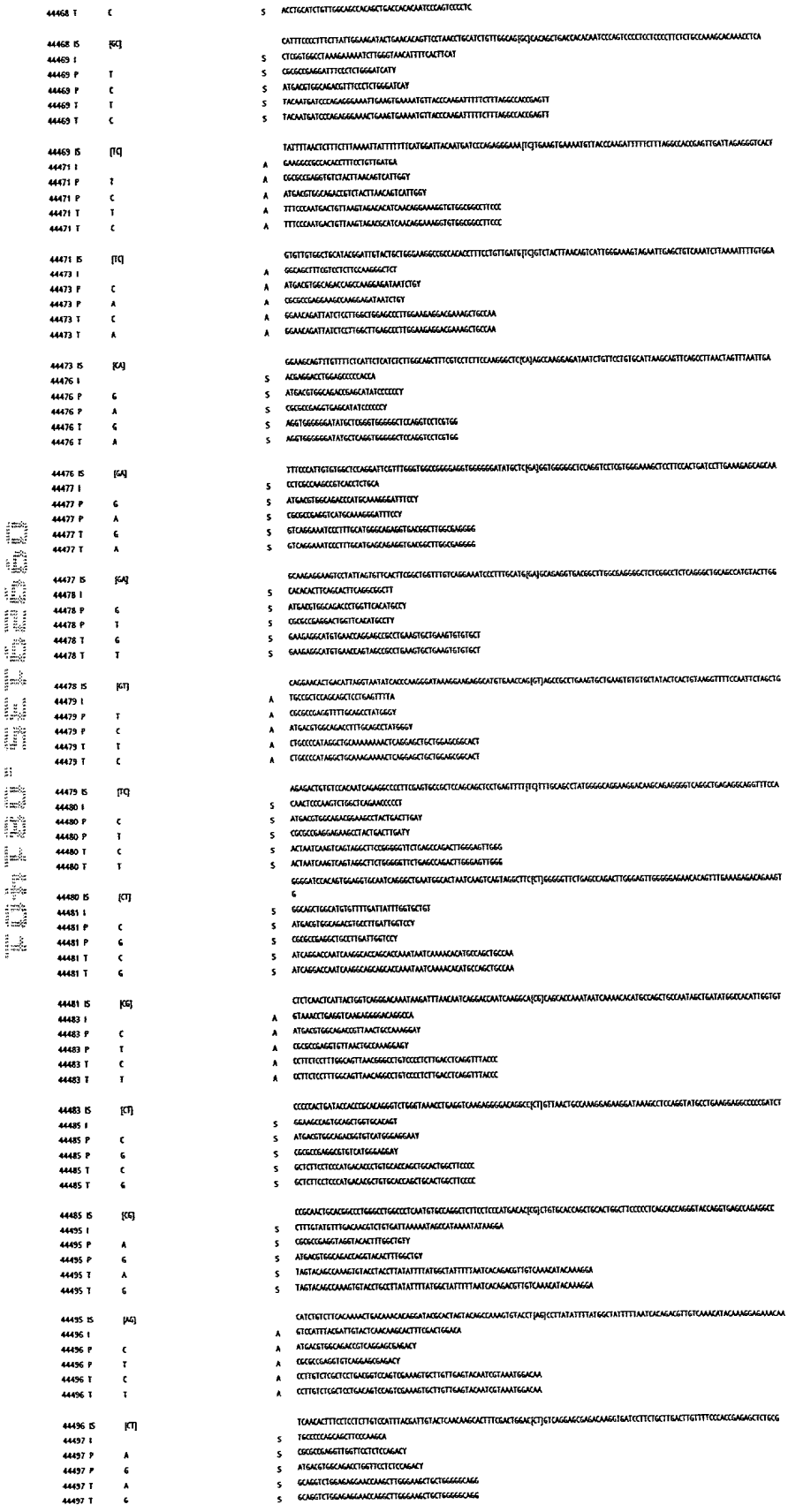
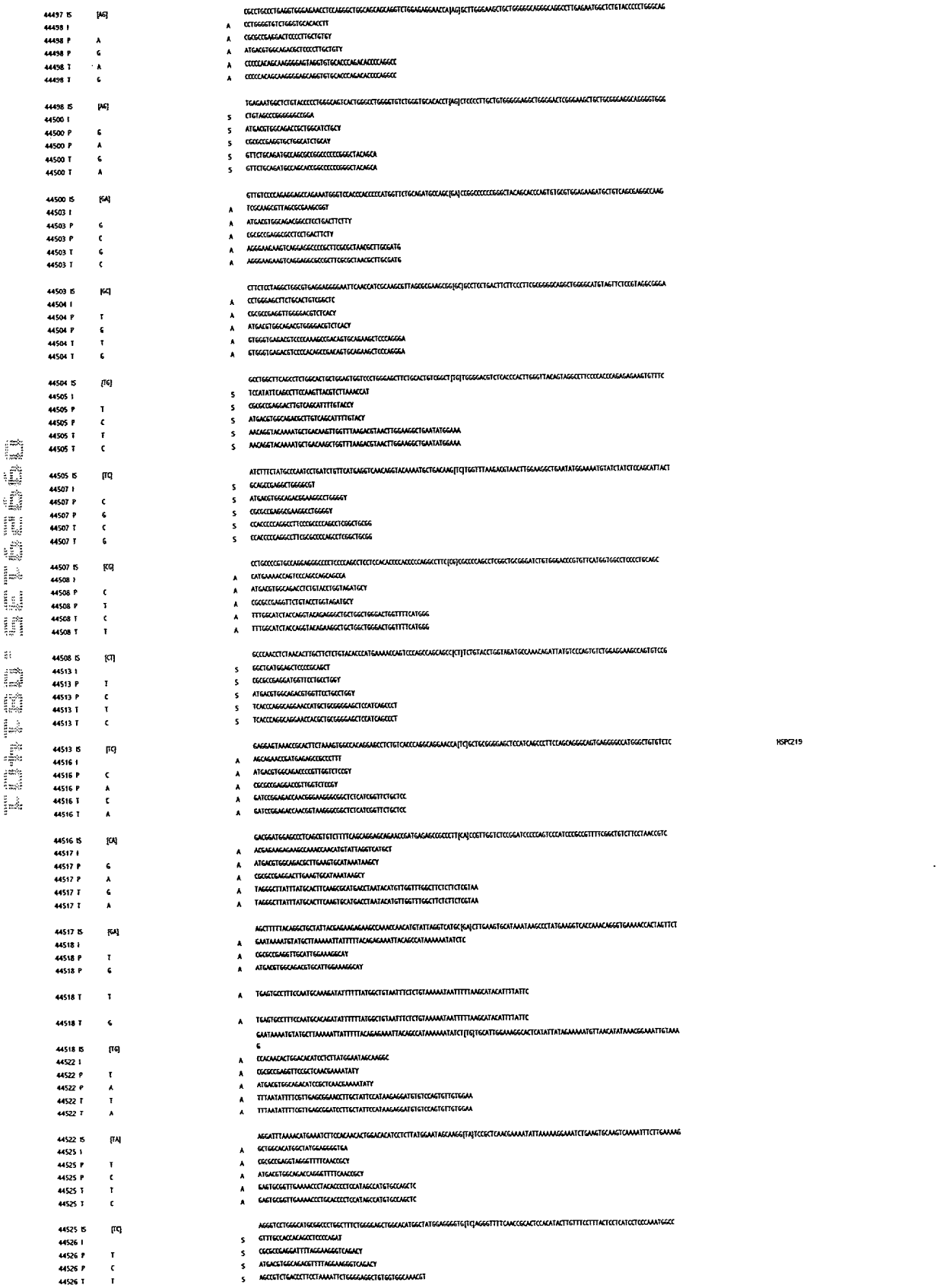

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44468 IS [GC] CATTTCCCCTTTCTTATTGGAAGATACTGAACACAGTTCCTAACCTGCATCTGTTGGCAG[GC]CACAGCTGACCACACAATCCCAGTCCCCTCCTCCCCTTCTCTGCCAAAGCACAAACCTCA
44469 I S CTCGGTGGCCTAAAGAAAATCTTGGGTAACATTTCACTTCAT
44469 P T S CGCGCCGAGGATTTCCCTCTGGGATCATY
44469 P C S ATGACGTGGCAGACGTTCCCTCTGGGATCAY
44469 T T S TACAATGATCCCAGAGGGAAATGAAGTGAAAATGTTACCCAAGATTTTTCTTTAGGCCACCGAGTT
44469 T C S TACAATGATCCCAGAGGGAAACTGAAGTGAAAATGTTACCCAAGATTTTTCTTTAGGCCACCGAGTT
44469 IS [TC] TATTTTAACTCTTTCTTTAAAATTATTTTTTCATGGATTACAATGATCCCAGAGGGAAA[TC]TGAAGTGAAAATGTTACCCAAGATTTTTCTTTAGGCCACCGAGTTGATTAGAGGGTCACT
44471 I A GAAGGCCGCCACACCTTTCCTGTTGATGA
44471 P T A CGCGCCGAGGTGTCTACTTAACAGTCATTGGY
44471 P C A ATGACGTGGCAGACGTCTACTTAACAGTCATTGGY
44471 T T A TTTCCCAATGACTGTTAAGTAGACACATCAACAGGAAAGGTGTGGCGGCCTTCCC
44471 T C A TTTCCCAATGACTGTTAAGTAGACGCATCAACAGGAAAGGTGTGGCGGCCTTCCC
44471 IS [TC] GTGTTGTGGCTGCATACGGATTGTACTGCTGGGAAGGCCGCCACACCTTTCCTGTTGATG[TC]GTCTACTTAACAGTCATTGGGAAAGTAGAATTGAGCTGTCAAATCTTAAAATTTTGTGGA
44473 I A GGCAGCTTTCGTCCTCTTCCAAGGGCTCT
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44473 P A A CGCGCCGAGGAAGCCAAGGAGATAATCTGY
44473 T C A GGAACAGATTATCTCCTTGGCTGGAGCCCTTGGAAGAGGACGAAAGCTGCCAA
44473 T A A GGAACAGATTATCTCCTTGGCTTGAGCCCTTGGAAGAGGACGAAAGCTGCCAA
44473 IS [CA] GGAAGCAGTTTGTTTTCTCATTCTCATCTCTTGGCAGCTTTCGTCCTCTTCCAAGGGCTC[CA]AGCCAAGGAGATAATCTGTTCCTGTCATTAAGCAGTTCAGCCTTAACTAGTTTAATTGA
44476 I S ACGAGGACCTTGGAGCCCCCACCA
44476 P G S ATGACGTGGCAGACCGAGCATATCCCCCCY
44476 P A S CGCGCCGAGGTGAGCATATCCCCCCY
44476 T G S AGGTGGGGGGATATGCTCGGGTGGGGGCTCCAGGTCCTCGTGG
44476 T A S AGGTGGGGGGATATGCTCAGGTGGGGGCTCCAGGTCCTCGTGG
44476 IS [GA] TTTCCCATTGTGTGGCTCCAGGATTCGTTTGGGTGGCCGGGGAGGTGGGGGGATATGCTC[GA]GGTGGGGGCTCCAGGTCCTCGTGGGAAAGCTCCTTCCACTGATCCTTGAAAGAGCAGCAA
44477 I S CCTCGCCAAGCCGTCACCTCTGCA
44477 P G S ATGACGTGGCAGACCCATGCAAAGGGATTTCCY
44477 P A S CGCGCCGAGGTCATGCAAAGGGATTTCCY
44477 T G S GTCAGGAAATCCCTTTGCATGGGCAGAGGTGACGGCTTGGCGAGGGG
44477 T A S GTCAGGAAATCCCTTTGCATGAGCAGAGGTGACGGCTTGGCGAGGGG
44477 IS [GA] GCAAGAGGAAGTCCTATTAGTGTTCACTTCGGCTGGTTTGTCAGGAAATCCCTTTGCATG[GA]GCAGAGGTGACGGCTTGGCGAGGGGCTCTCGGCCTCTCAGGGCTGCAGCCATGTACTTGG
44478 I S CACACACTTCAGCACTTCAGGCGGCTT
44478 P G S ATGACGTGGCAGACCCTGGTTCACATGCCY
44478 P T S CGCGCCGAGGACTGGTTCACATGCCTY
44478 T G S GAAGAGGCATGTGAACCAGTAGCCGCCTGAAGTGCTGAAGTGTGTGCT
44478 T T S GAAGAGGCATGTGAACCAGTAGCCGCCTGAAGTGCTGAAGTGTGTGCT
44478 IS [GT] CAGGAACACTGACATTAGGTAATATCACCCAAGGGATAAAGGAAGAGGCATGTGAACCAG[GT]AGCCGCCTGAAGTGCTGAAGTGTGTGCTATACTCACTGTAAGGTTTCCAATTCTAGCTG
44479 I A TGCCGCTCCAGCAGCTCCTGAGTTTTA
44479 P T A CGCGCCCAGGTTTTGCAGCCTATGGGY
44479 P C A ATGACGTGGCAGACCTTGCAGCCTATGGGY
44479 T T A CTGCCCCATAGGCTGCAAAAAAAACTCAGGAGCTGCTGGAAGCGGCACT
44479 T C A CTGCCCCATAGGCTGCAAGCAAAACTCAGGAGCTGCTGGAAGCGGCACT
44479 IS [TC] AGAGACTGTGTCCACAATCAGAGGCCCCTTCGAGTGCCGCTCCAGCAGCTCCTGAGTTTT[TC]TTTGCAGCCTATGGGGCAGGAAGGACAAGCAGAGGGGTCAGGCTGAGAGGCAGGTTTCCA
44480 I S CAACTCCCAAGTCTGGCTCAGAACCCCCT
44480 P C S ATGACGTGGCAGACGGAAGCCTACTGACTTGAY
44480 P T S CGCGCCGAGGAGAAGCCTACTGACTTGAY
44480 T C S ACTAATCAAGTCAGTAGGCTTCTGGGGGTTCTGAGCCAGACTTGGGAGTTGGG
44480 T T S ACTAATCAAGTCAGTAGGCTTCTGGGGGTTCTGAGCCAGACTTGGGAGTTGGG
44480 IS [CT] GGGGATCCACAGTGGAGGTGCAATCAGGGCTGAATGGCACTAATCAAGTCAGTAGGCTTC[CT]GGGGGTTCTGAGCCAGACTTGGGAGTTGGGGGAGAACACAGTTTGAAAGAGACAGAAGT
G
44481 I S GGCAGCTGGCATGTGTTTTGATTATTTGGTGCTGT
44481 P C S ATGACGTGGCAGACGTGCCTTGATTGGTCCY
44481 P G S CGCGCCGAGGCTGCCTTGATTGGTCCY
44481 T C S ATCAGGACCAATCAAGGCACAGCACCAAATAATCAAACACATGCCAGCTGCCAA
44481 T G S ATCAGGACCAATCAAGGCAGCAGCACCAAATAATCAAACACATGCCAGCTGCCAA
44481 IS [CG] CTCTCAACTCATTACTGGTCAGGGACAAATAAGATTTAACAATCAGGAACAATCAAGGCA[CG]CAGCACCAAATAATCAAACACATGCCAGCTGCCAATAGCTGATATGGCCACATTGGTGT
44483 I A GTAAACCTGAGGTCAAGCAGGGGACAGGCCA
44483 P C A ATGACGTGGCAGACCGTTAACTGCCAAAGGAY
44483 P T A CGCGCCGAGGTGTTAACTGCCAAAGGAGY
44483 T C A CCTTCTCCTTTGGCAGTTAACGGGCCTGTCCCCTCTTGACCTCAGGTTTACCC
44483 T T A CCTTCTCCTTTGGCAGTTAACAGGCCTGTCCCCTCTTGACCTCAGGTTTACCC
44483 IS [CT] CCCCTACTGATACCACCGCACAGGGTCTGGGTAAACCTGAGGTCAAGAGGGGACAGGCC[CT]GTTAACTGCCAAAGGAGAAGGATAAAGCCTCCAGGTATGCCTGAAGGAGGCCCCCGATCT
44485 I S GGAAGCCAGTGCAGCTGGTGCACAGT
44485 P C S ATGACGTGGCAGACGGTGTCATGGGAGGAAT
44485 P G S CGCGCCGAGGCCTGTCATGGGAGGAY
44485 T C S GCTCTTCCTCCCATGACACCCTGTGCACCAGCTGCACTGGCTTCCCC
44485 T G S GCTCTTCCTCCCATGACACGCTGTGCACCAGCTGCACTGGCTTCCCC
44485 IS [CG] CCGCAACTGCACGGCCCTGGGCCTGGCCCTCAATGTGCCAGGCTCTTCCTCCCATGACAC[CG]CTGTGCACCAGCTGCACTGGCTTCCCCCTCAGCACCAGGGTACCAGGTGAGCCAGAGGCC
44495 I S CTTTGTATGTTTGACAACGTCTGTGATTAAAAATAGCCATAAAATATAAGGA
44495 P A S CGCGCCGAGGTAGGTACACTTTGGCTGTY
44495 P G S ATGACGTGGCAGACAGGTACACTTTGGCTGY
44495 T A S TAGTACAGCCAAAGTGTACCTACCTTATATTTTATGGCTATTTTTAATCACAGACGTTGTCAAACATACAAAGGA
44495 T G S TAGTACAGCCAAAGTGTACCTGCCTTATATTTTATGGCTATTTTTAATCACAGACGTTGTCAAACATACAAAGGA
44495 IS [AG] CATCTGTCTTCACAAAACTGACAAACACAGGATACGCACTAGTACAGCCAAAGTGTACCT[AG]CCTTATATTTTATGGCTATTTTTAATCACAGACGTTGTCAAACATACAAAGGAGAAACAA
44496 I A GTCCATTTACGATTGTACTCAACAAGCACTTTCGACTGGACA
44496 P C A ATGACGTGGCAGACCGTCAGGAGCGAGACY
44496 P T A CGCGCCGAGGTGTCAGGAGCGAGACY
44496 T C A CCTTGTCTCGCTCCTGACGGTCCAGTCGAAAGTGCTTGTTGAGTACAATCGTAAATGGACAA
44496 T T A CCTTGTCTCGCTCCTGACAGTCCAGTCGAAAGTGCTTGTTGAGTACAATCGTAAATGGACAA
44496 IS [CT] TCAACACTTTCCTCCTCTTGTCCATTTACGATTGTACTCAACAAGCACTTTCGACTGGAC[CT]GTCAGGAGCGAGACAAGGTGATCCTTCTGCTTGACTTGTTTCCCACCGAGAGCTCTGCG
44497 I S TGCCCCCAGCAGCTTCCCAAGCA
44497 P A S CGCGCCGAGGTTGGTTCCTCTCCAGACY
44497 P G S ATGACGTGGCAGACCTGGTTCCTCTCCAGACY
44497 T A S GCAGGTCTGGAGAGCAACCAAGCTTGGGAAGCTGCTGGGGGCAGG
44497 T G S GCAGGTCTGGAGAGCAACCAGGCTTGGGAAGCTGCTGGGGGCAGG

FIGURE 129F



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FIGURE 129F

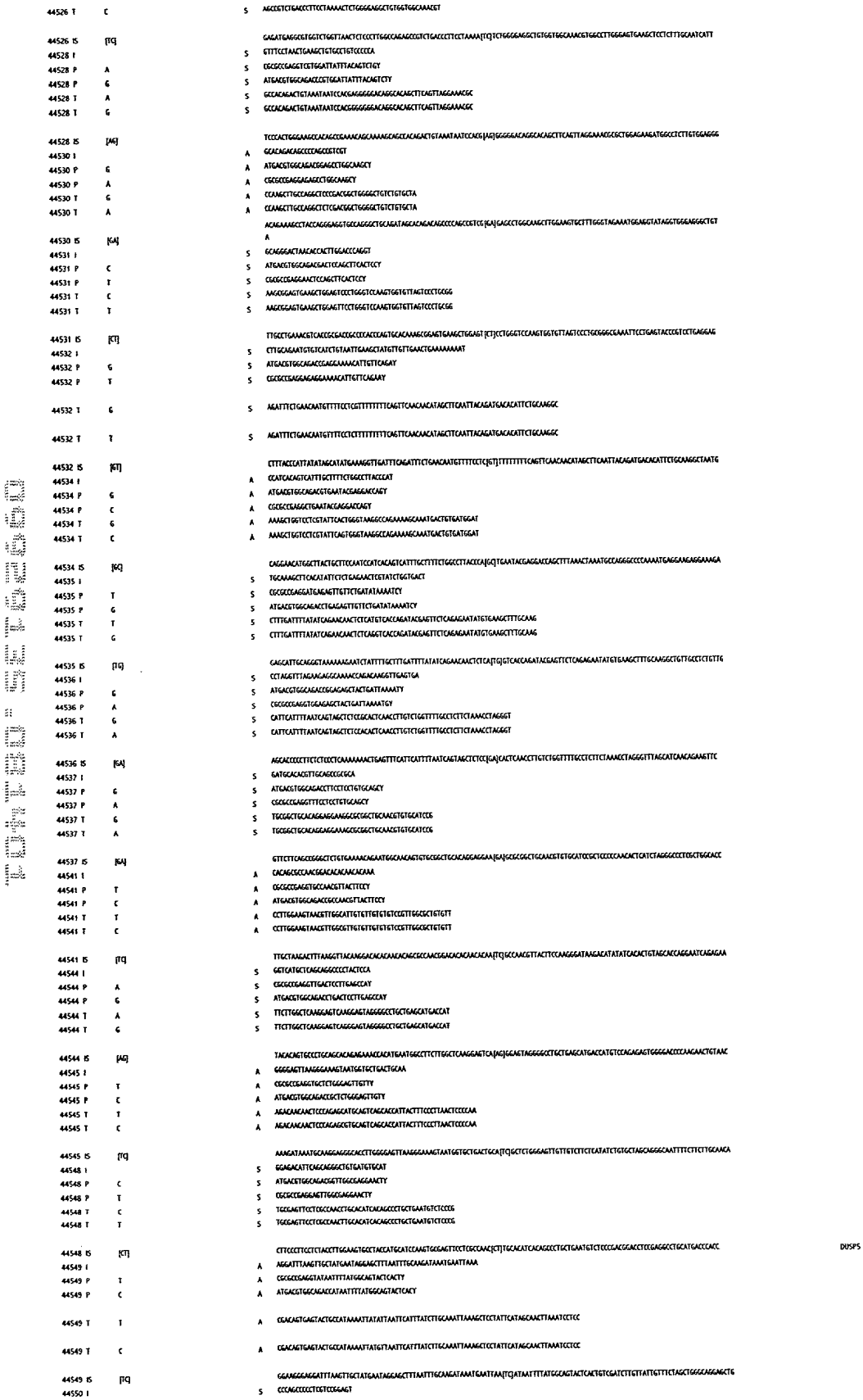


FIGURE 129F

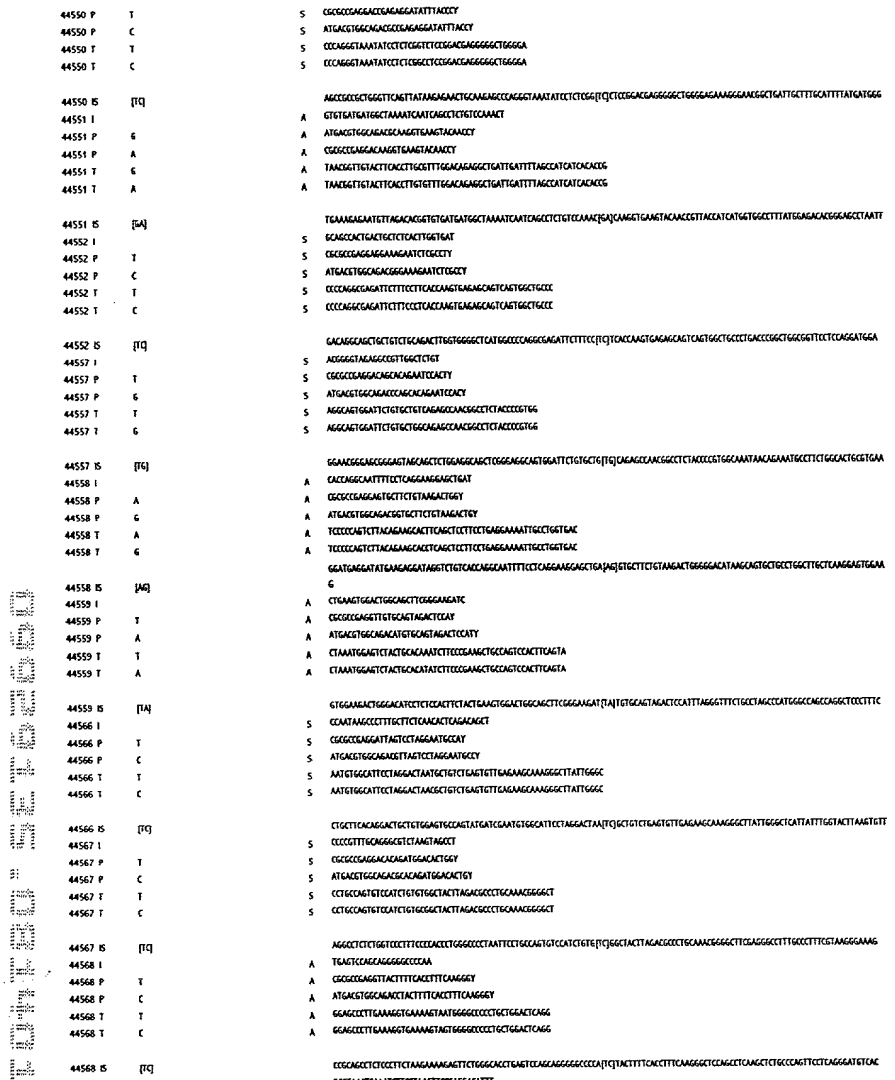


FIGURE 129F

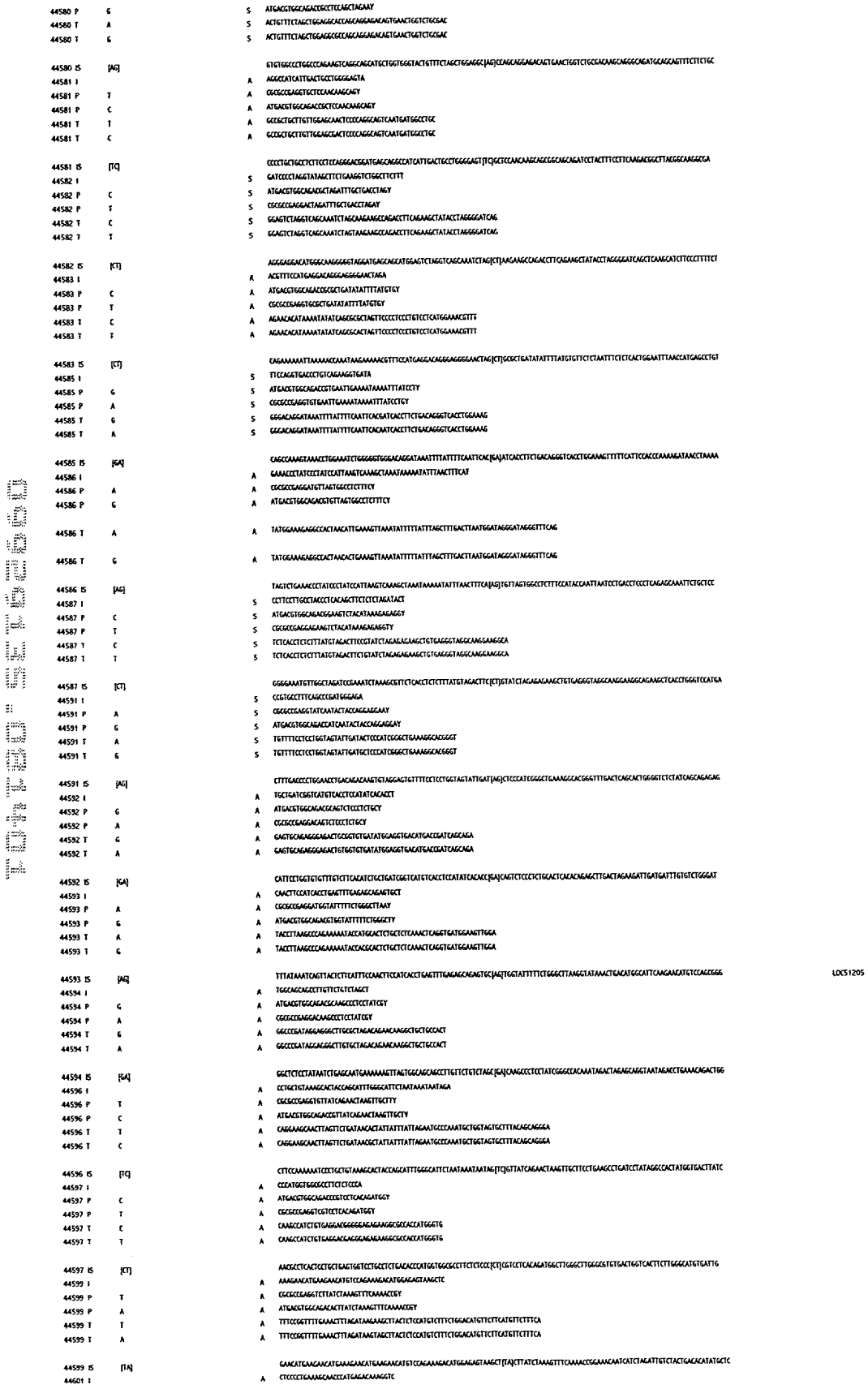
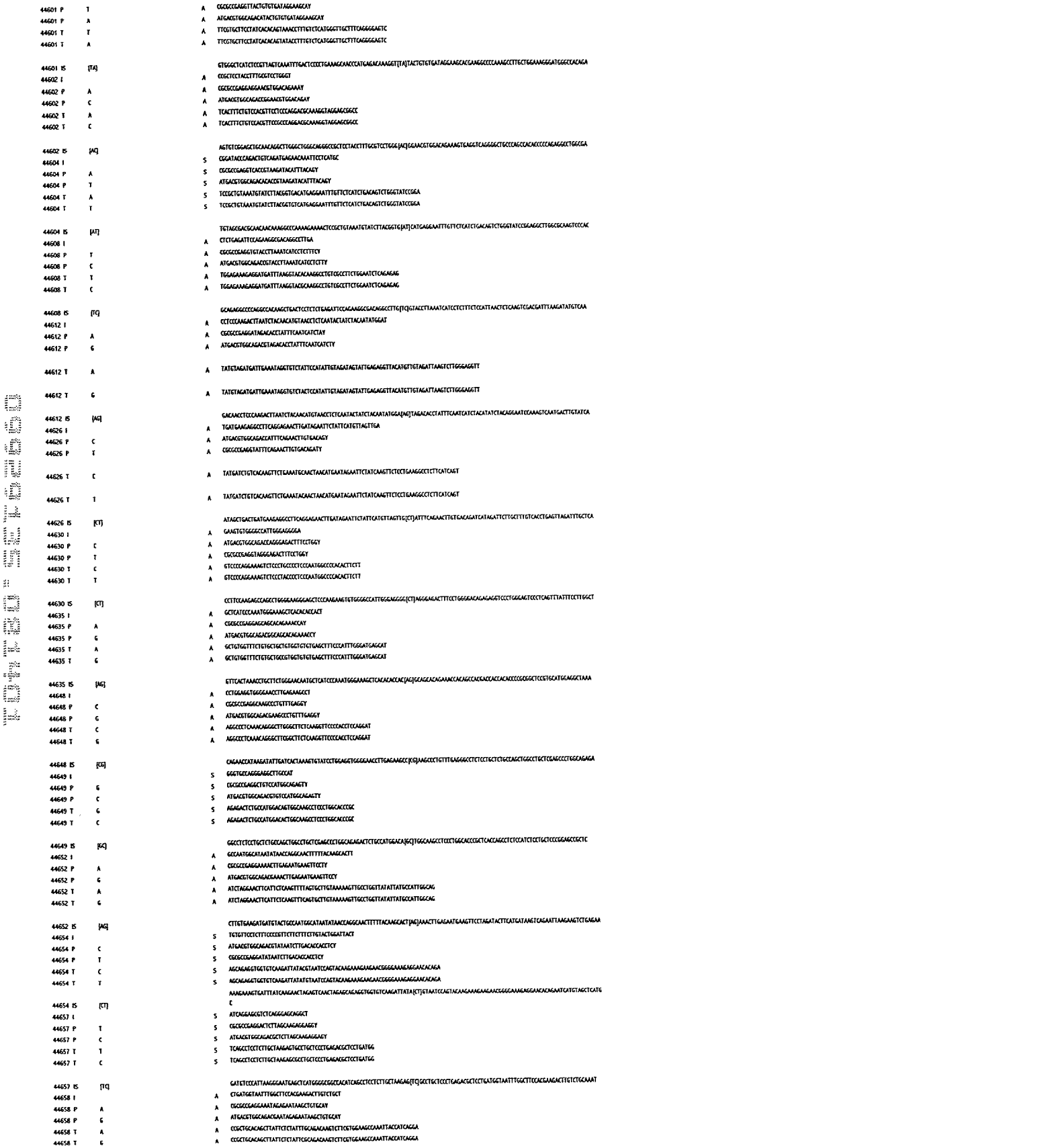
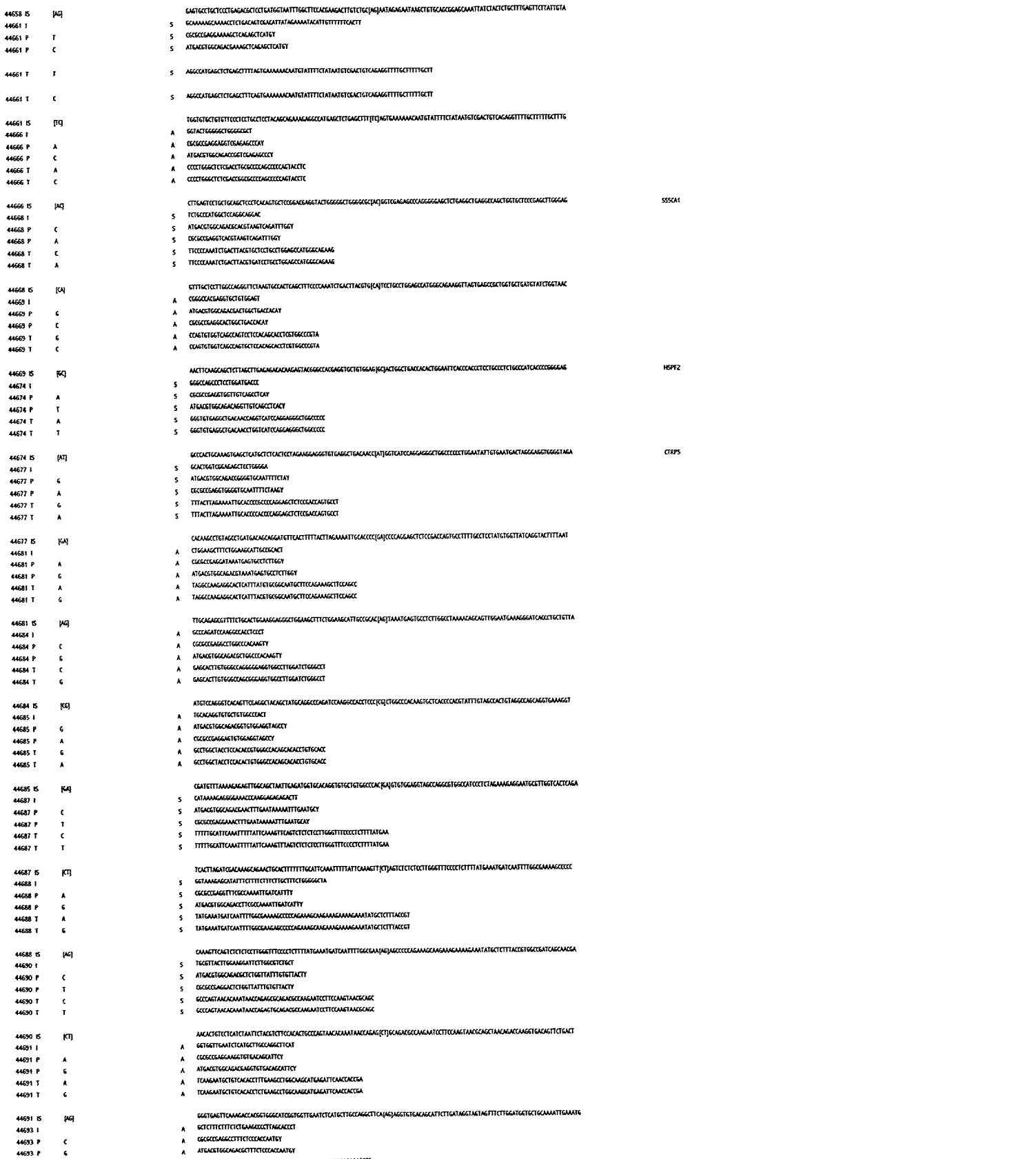

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44580 IS [AG] GTGTGGCCCTGGCCCAGAAGTCAGGCAGCATGCTGGTGGGTACTGTTTCTAGCTGGAGGC[AG]CCAGCAGGAGACAGTGAACTGGTCTGCGACAAGCAGGGCAGATGCAGCCAGTTTCTTCTGC
44581 I A AGGCATCATTGACTGCCTGGGGAGTA
44581 P T A CGCGCCGAGGTGCTCCAACAAGCAGY
44581 P C A ATGACGTGGCAGACCGCTCCAACAAGCAGY
44581 T T A GCCGCTGCTTGTTGGAGCAACTCCCCAGGCAGTCAATGATGGCCTGC
44581 T C A GCCGCTGCTTGTTGGAGCAACTCCCCAGGCAGTCAATGATGGCCTGC
44581 IS [TC] CCCCTGCTGCCTCTTCCTCCAGGGACGGATGAGCAGGCCATCATTGACTGCCTGGGGAGT[TC]GCTCCAACAAGCAGCGGCAGCAGATCCTACTTTCCTTCAAGACGGCTTACGGCAAGGCA
44582 I S GATCCCCTAGGTATAGCTCTCGAAGGTCTGGCTCTCTT
44582 P C S ATGACGTGGCAGACGCTAGATTTGCTGACCTAGY
44582 P T S CGCGCCCAGGACTAGATTTGCTGACCTAGAY
44582 T C S GGAGTCTAGGTCAGCAAATCTAGCAAGAAGCCAGACCTTCAGAAGCTATACCTAGGGGATCAG
44582 T T S GCAGTCTAGGTCAGCAAATCTAGTAAGAAGCCAGACCTTCAGAAGCTATACCTAGGGGATCAG
44582 IS [CT] AGGGAGGACATGGGCAAGGGGGTAGGATGAGCAGCATGGAGTCTAGGTCAGCAAATCTAG[CT]AAGAAGCCAGACCTTCAGAAGCTATACCTAGGGGATCAGCTCAAGCATCTTCCCTTTTCT
44583 I A ACGTTTCCATGAGGACAGGGAGGGGAACTAGA
44583 P C A ATGACGTGGCAGACCGCGCTGATATATTTTATGTGY
44583 P T A CGCGCCGAGGTGCGCTGATATATTTTATGTGY
44583 T C A AGAACACATAAAATATATCAGCGCACTAGTTCCCCTCCCTGTCCTCATGGAAACGTTT
44583 T T A AGAACACATAAAATATATCAGCGCACTAGTTCCCCTCCCTGTCCTCATGGAAACGTTT
44583 IS [CT] CAGAAAAAATTAAAAACCAAATAAGAAAAACGTTTCCATGAGGACAGGGAGGGGAAACTAG[CT]GCGCTGATATATTTTATGTGTTCTCTAATTTCTCTCACTGGAATTTAACCATGAGCCTGT
44585 I S TTCCAGTGACCCTGTCAGAAGGTGATA
44585 P G S ATGACGTGGCAGACGTGAATTGAAAATAAAATTTATCCTY
44585 P A S CGCGCCGAGGTGTGAATTGAAAATAAAATTTATCCTGY
44585 T G S GGGACAGGATAAATTTTATTTTCAATTCACGATCACCTTCTGACAGGGTCACCTGGAAAG
44585 T A S GGGACAGGATAAATTTTATTTTCAATTCACAATCACCTTCTGACAGGGTCACCTGGAAAG
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44586 I A GAAACCTATCCCTATCCATTAAGTCAAAGCTAAATAAAAATATTTAACTTTCAT
44586 P A S CGCGCCGAGGATGTTAGTGGCCTCTTTCY
44586 P G A ATGACGTGGCAGACGTGTTAGTGGCCTCTTTCY
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44586 T G A TATGGAAAGAGGCCACTAACACTGAAAGTTAAATATTTTTATTTAGCTTTGACTTAATGGATAGGGATAGGGTTTCAG
44586 IS [AG] TAGTCTGAAACCCTATCCCTATCCATTAAGTCAAAGCTAAATAAAAATATTTAACTTTCA[AG]TGTTAGTGGCCTCTTTCCATACCAATTAATCCTGACCTCCCTCAGAGCAAATTCTGCTCC
44587 I S CCTTCCTTGCCTACCCTCACAGCTTCTCTCTCTAGATACT
44587 P C S ATGACGTGGCAGACGGAAGTCTACATAAAGAGAGGY
44587 P T S CGCGCCGAGGAGGAAGTCTACATAAAGAGAGGTY
44587 T C S TCTCACCTCTCCTTTATGTAGACTTCCGTATCTAGAGAGAAGCTGTGAGGGTAGGCAAGGAAGGCA
44587 T T S TCTCACCTCTCCTTTATGTAGACTTCTGTATCTAGAGAGAAGCTGTGAGGGTAGGCAAGGAAGGCA
44587 IS [CT] GGGGAAATGTTGGCTAGATCCGAAATCTAAAGCGTTCTCACCTCTCTTTATGTAGACTTC[CT]GTATCTAGAGAGAAGCTGTGAGGGTAGGCAAGGAAGGCAGAAGCTCACCTGGGTCCATGA
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44591 P A S CGCGCCGAGGTATCAATACTACCAGGAAGCAAY
44591 P G S ATGACGTGGCAGACCATCAATACTACCAGGAGGAY
44591 T A S TGTTTTCCTCCTGGTAGTATTGATACTCCCATCGGGCTGAAAGGCACGGGT
44591 T G S TGTTTTCCTCCTGGTAGTATTGATGCTCCCATCGGGCTGAAAGGCACGGGT
44591 IS [AG] CTTTGACCCCTGGAACCTGACAGACAAGTGTAGGAGTGTTTCCTCCTGGTAGTATTGAT[AG]CTCCCATCGGGCTGAAAGGCACGGGTTTGACTCAGCACTGGGGTCTCTATCAGCAGAGAG
44592 I A TGCTGATCGGTCATGTCACCTCCATATCACACCT
44592 P G A ATGACGTGGCAGACGCAGTCTCCCTCTGCY
44592 P A A CGCGCCGAGGACAGTCTCCCTCTGCY
44592 T G A GAGTGCAGAGGGAGACTGCGGTGTGATATGGAGGTGACATGACCGATCAGCAGA
44592 T A A GAGTGCAGAGGGAGACTGTGGTGTGATATGGAGGTGACATGACCGATCAGCAGA
44592 IS [GA] CATTCCTGGTGTGTTTGTCTTCACATCTGCTGATCGGTCATGTCACCTCCATATCACACC[GA]CAGTCTCCCTCTGCACTCACACAGAGCTTGACTAGAAGATTGATGATTTGTGTCTGGGAT
44593 I A CAACTTCCATCACCTGAGTTTGAGAGCAGAGTGCT
44593 P A A CGCGCCGAGGATGGTATTTTTCTGGGCTTAAY
44593 P G A ATGACGTGGCAGACGTGGTATTTTTCTGGGCTY
44593 T A A TACCTTAAGCCCAGAAAAATACCATGCACTCTGCTCTCAAACTCAGGTGATGGAAGTTGGA
44593 T G A TACCTTAAGCCCAGAAAAATACCACGCACTCTGCTCTCAAACTCAGGTGATGGAAGTTGGA
44593 IS [AG] TTTATAAATCAGTTACTCTTCATTTCCAACTTCCATCACCTGAGTTTGAGAGCAGAGTGC[AG]TGGTATTTTTCTGGGCTTAAGGTATAAACTGACATGGCATTCAAGAACATGTCCAGCGGG LOC51205
44594 I A TGGCAGCAGCCTTGTTCTGTCTAGCT
44594 P G A ATGACGTGGCAGACGCAAGCCTCCTATCGY
44594 P A A CGCGCCGAGGCAAGCCCTCCTATCGY
44594 T G A GGCCCGATAGGAGGGCTTGCGCTAGACAGAACAAGGCTGCTGCCACT
44594 T A A GGCCCGATAGGAGGGCTTGTGCTAGACAGAACAAGGCTGCTGCCACT
44594 IS [GA] GGCTCTCCTATAATCTGAGCAATGAAAAAGTTAGTGGCAGCAGCCTTGTTCTGTCTAGC[GA]CAAGCCCTCCTATCGGGCCACAAATAGACTAGAGCAGGTAATAGACCTGAAACAGACTGG
44596 I A CCTGCTGTAAAGCACTACCAGCATTTGGGCATTCTAATAAATAATAGA
44596 P T A CGCGCCGAGGTGTTATCAGAACTAAGTTGCTTY
44596 P C A ATGACGTGGCAGACCGTTATCAGAACTAAGTTGCTY
44596 T T A CAGGAAGCAACTTAGTTCTGATAACACTATTATTTATTAGAATGCCCAAATGCTGGTAGTGCTTTACAGCAGGGA
44596 T C A CAGGAAGCAACTTAGTTCTGATAACGCTATTATTTATTAGAATGCCCAAATGCTGGTAGTGCTTTACAGCAGGGA
44596 IS [TC] CTTCCAAAAAATCCCTGCTGTAAAGCACTACCAGCATTTGGGCATTCTAATAAATAATAG[TC]GTTATCAGAACTAAGTTGCTTCCTGAAGCCTGATCCTATAGGCCACTATGGTGACTTATC
44597 I A CCCATGGTGGGGCCTTCTCTCCCA
44597 P C A ATGACGTGGCAGACCCGTCCTCACAGATGGY
44597 P T A CGCGCCGAGGTCGTCCTCACAGATGGY
44597 T C A CAAGCCATCTGTGAGGACGGGGGACAGAAGCGCCACCATGGGTG
44597 T T A CAAGCCATCTGTGAGGACGAGGGAGAGAAGCCCACCATGGGTG
44597 IS [CT] AACGCCTCACTCCTGCTGAGTGGTCCTGCCTCTGACACCCATGGTGCGCCTTCTCTCCCC[CT]CGTCCTCACAGATGGCTTGGGCGTGTGACTGGTCACTTCTTGGGCATGTGATTG
44599 I A AAAGAACATGAAGAACATGTCCAGAAAGAACATGGAGAGTAAGCT
44599 P T A CGCGCCGAGGTCTTATCTAAAGTTTCAAAACCGY
44599 P A A ATGACGTGGCAGACACTTATCTAAAGTTTCAAAACCGY
44599 T T A TTTCCGGTTTTGAAACTTTAGATAAGAAGCTTACTCCATGTCTTTCTGGACATGTTCTTCATGTTCTTTCA
44599 T A A TTTCCGGTTTTGAAACTTTAGATAAGTAGCTTACTCCATGTCTTTCTGGACATGTTCTTCATGTTCTTTCA
44599 IS [TA] GAACATCAAGAACATGAAAGAACATGAAGAACATGTCCAGAAAGACATGGAGAGTAAGCT[TA]CTTATCTAAAGTTTCAAAACCGGAAACAATCATCTAGATTGTCTACTGACACATATGCTC
44601 I A CTCCCCTGAAAGCAACCCATGAGACAAAGGTC

FIGURE 129F



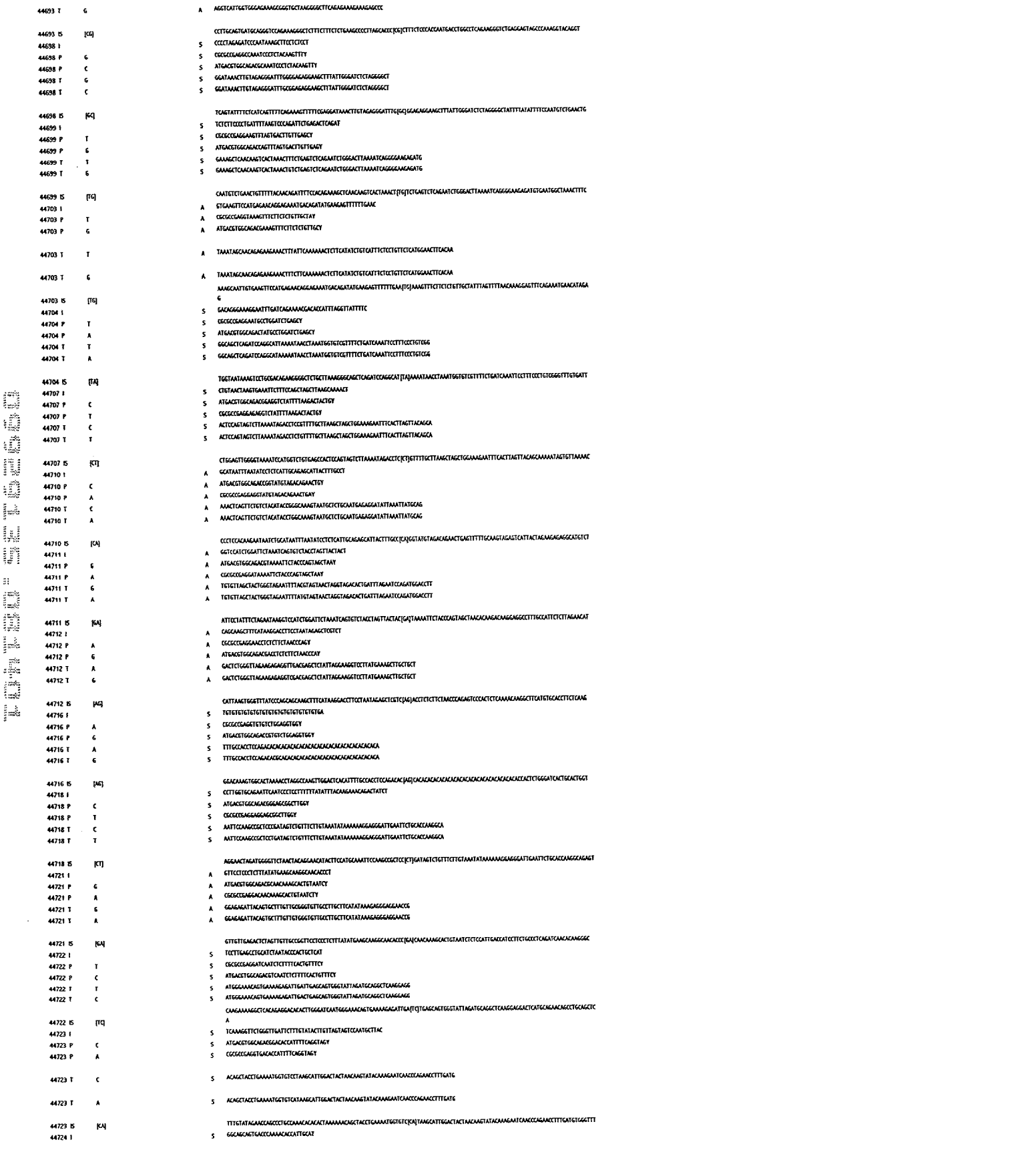
SEQUENCE LISTING

FIGURE 129F



Atty. Docket No. 2001P00130WOUS

FIGURE 129F


44693 T G A AGGTCATTGGTGGCAGAAAGCGGGTGCTAAGGGCTTCAGAGAAAGAAAGAGCCC
44693 IS [CG] CCTTGCAGTGATGCAGGGTCCAGAAAGGGCTCTTTCTTTCTCTGAAGCCCCTTAGCACCC[CG]CTTTCTCCCACCAATGACCTGGCCTCAGAAGGGTCTGAGGAGTAGCCCAAAGGTACAGGT
44698 I S CCCCTAGAGATCCCAATAAAGCTTCCTCTCCT
44698 P G S CGCGCCCAGGCCAAATCCCCTCTACAAGTTTY
44698 P C S ATGACGTGGCAGACGCAAATCCCTCTACAAGTTY
44698 T G S GGATAAACTTGTAGAGGGATTTGGGGAGAGGAAGCTTTATTGGGATCTCTAGGGGCT
44698 T C S GGATAAACTTGTAGAGGGATTTGCGGAGAGGAAGCTTTATTGGGATCTCTAGGGGCT
44698 IS [GC] TCAGTATTTTCTCATCAGTTTTCAGAAAGTTTTTCGAGGATAAACTTGTAGAGGGATTTG[GC]GGAGAGGAAGCTTTATTGGGATCTCTAGGGGCTATTTTATATTTTCCAATGTCTGAACTG
44699 I S TCTCTTCCCCTGATTTTAAGTCCCAGATTCTGAGACTCAGAT
44699 P T S CGCGCCGAGGAAGTTTAGTGACTTGTTGAGCY
44699 P G S ATGACGTGGCAGACCAGTTTAGTGACTTGTTGAGY
44699 T T S GAAAGCTCAACAAGTCACTAAACTTCTGAGTCTCAGAATCTGGGACTTAAAATCAGGGGAAGAGATG
44699 T G S GAAAGCTCAACAAGTCACTAAACTGTCTGAGTCTCAGAATCTGGGACTTAAAATCAGGGGAAGAGATG
44699 IS [TG] CAATGTCTGAACTGTTTTTACAACAGATTTCTCACAGAAAGCTCAACAAGTCACTAAACT[TG]TCTGAGTCTCAGAATCTGGGACTTAAAATCAGGGGAAGAGATGTGAATGGCTAAACTTTC
44703 I A GTGAAGTTCCATGAGAACAGGAGAAATGACAGATATGAAGAGTTTTTTGAAC
44703 P T A CGCGCCGAGGTAAAGTTTCTTCTCTGTTGCTAY
44703 P G A ATGACGTGGCAGACGAAAGTTTCTTCTCTGTTGCY
44703 T T A TAAATAGCAACAGAGAAGAAACTTTATTCAAAAAACTCTTCATATCTGTCATTTCTCCTGTTCTCATGGAACTTCACAA
44703 T G A TAAATAGCAACAGAGAAGAAACTTTCTTCAAAAAACTCTTCATATCTGTCATTTCTCCTGTTCTCATGGAACTTCACAA
44703 IS [TG] AAAGCAATTGTGAAGTTCCATGAGAACAGGAGAAATGACAGATATGAAGAGTTTTTTGAA[TG]AAAGTTTCTTCTCTGTTGCTATTTAGTTTTAACAAAGGAGTTTCAGAAATGAACATAGA G
44704 I S GACAGGGAAAGGAATTTGATCAGAAAAGCACACCATTTAGGTTATTTTC
44704 P T S CGCGCCCAGGAATGCCTGGATCTGAGCY
44704 P A S ATGACGTGGCAGACTATGCCTGGATCTGAGCY
44704 T T S GGCAGCTCAGATCCAGGCATTAAAATAACCTAAATGGTGTCGTTTCTGATCAAATCCTTTCCCTGTCGG
44704 T A S GGCAGCTCAGATCCAGGCATAAAATAACCTAAATGGTGTCGTTTCTGATCAAATTCCTTTCCCTGTCGG
44704 IS [TA] TGGTAATAAAGTCCTGCGACAGAAGGGGCTCTGCTTAAAGGGCAGCTCAGATCCAGGCAT[TA]AAAATAACCTAAATGGTGTCGTTTTCTGATCAAATTCCTTTCCCTGTCGGGTTTGTGATT
44707 I S CTGTAACTAAGTGAAATTCTTTCCAGCTAGCTTAAGCAAAACT
44707 P C S ATGACGTGGCAGACGGAGGTCTATTTTAAGACTACTGY
44707 P T S CGCGCCGAGGAGAGGTCTATTTTAAGACTACTGY
44707 T C S ACTCCAGTAGTCTTAAAATAGACCTCCGTTTTGCTTAAGCTAGCTGGAAAGAATTTCACTTAGTTACAGCA
44707 T T S ACTCCAGTAGTCTTAAAATAGACCTCTGTTTTGCTTAAGCTAGCTGGAAAGAATTTCACTTAGTTACAGCA
44707 IS [CT] CTGGAGTTGGGGTAAAATCCATGGTCTGTGAGCCACTCCAGTAGTCTTAAAATAGACCTC[CT]GTTTTGCTTAAGCTAGCTGGAAAGAATTTCACTTAGTTACAGCAAAAATAGTGTTAAAAC
44710 I A GCATAATTTAATATCCTCTCATTGCAAGCATTACTTTGCCT
44710 P C A ATGACGTGGCAGACCGGTATGTAGACAGAACTGY
44710 P A A CGCGCCCAGGAGGTATGTAGACAGAACTGAY
44710 T C A AAACTCAGTTCTGTCTACATACCGGGCAAAGTAATGCTCTGCAATGAGAGGATATTAAATTATGCAG
44710 T A A AAACTCAGTTCTGTCTACATACCTGGCAAAGTAATGCTCTGCAATGAGAGGATATTAAATTATGCAG
44710 IS [CA] CCCTCCACAAGAATAATCTGCATAATTTAATATCCTCTCATTGCAGAGCATTACTTTGCC[CA]GGTATGTAGACAGAACTGAGTTTTTGCAAGTAGAGTCATTACTAGAAGAGAGGCATGTCT
44711 I A GGTCCATCTGGATTCTAAATCAGTGTCTACCTAGTTACTACT
44711 P G A ATGACGTGGCAGACGTAAAATTCTACCCAGTAGCTAAY
44711 P A A CGCGCCCAGGATAAAATTCTACCCAGTAGCTAAY
44711 T G A TGTGTTAGCTACTGGGTAGAATTTTACGTAGTAACTAGGTAGACACTGATTTAGAATCCAGATGGACCTT
44711 T A A TGTGTTAGCTACTGGGTAGAATTTTATGTAGTAACTAGGTAGACACTGATTTAGAATCCAGATGGACCTT
44711 IS [GA] ATTCCTATTTCTAGAATAAGGTCCATCTGGATTCTAAATCAGTGTCTACCTAGTTACTAC[GA]TAAAATTCTACCCAGTAGCTAACACAAGACAAGCAAGGAGGCCTTTGCCATTCTCTTAGAACAT
44712 I A CAGCAAGCTTTCATAAGGACCTTCCTAATAGAGCTCGTCT
44712 P A A CGCGCCGAGGAACCTCTCTTCTAACCCAGY
44712 P G A ATGACGTGGCAGACGAACCTCTCTTCTAACCCAY
44712 T A A GACTCTGGGTTAGAAGAGAGGTTGACGAGCTCTATTAGGAAGGTCCTTATGAAAGCTTGCTGCT
44712 T G A GACTCTGGGTTAGAAGAGAGGTCGACGAGCTCTATTAGGAAGGTCCTTATGAAAGCTTGCTGCT
44712 IS [AG] CATTAAGTGGGTTTATCCCAGCAGCAAGCTTTCATAAGGACCTTCCTAATAGAGCTCGTC[AG]ACCTCTCTTCTAACCCAGAGTCCCACTCTCAAAACAAGGCTTCATGTGCACCTTCTCAAG
44716 I S TGTGTGTGTGTGTGTGTGTGTGTGTGTGTGA
44716 P A S CGCGCCGAGGTGTGTCTGGAGGTGGY
44716 P G S ATGACGTGGCAGACCGTGTCTGGAGGTGGY
44716 T A S TTTGCCACCTCCAGACACACACACACACACACACACACACACACACACACA
44716 T G S TTTGCCACCTCCAGACACGCACACACACACACACACACACACACACACACA
44716 IS [AG] GGACAAAGTGGCACTAAAACCTAGGCCAAGTTGGACTCACATTTTGCCACCTCCAGACAC[AG]CACACACACACACACACACACACACACACACACACACTCTGGGATCACTGCACTGGT
44718 I S CCTTGGTGCAGAATTCAATCCCTCCTTTTTATATTTACAAGAAACAGACTATCT
44718 P C S ATGACGTGGCAGACGGGAGCGGCTTGGY
44718 P T S CGCGCCGAGGAGGAGCGGCTTGGY
44718 T C S AATTCCAAGCCGCTCCCGATAGTCTGTTTCTTGTAAATATAAAAAAGGAGGGATTGAATTCTGCACCAAGGCA
44718 T T S AATTCCAAGCCGCTCCTGATAGTCTGTTTCTTGTAAATATAAAAAAGGAGGGATTGAATTCTGCACCAAGGCA
44718 IS [CT] AGGAACTAGATGGGGTTCTAACTACAGGAACATACTTCCATGCAAATTCCAAGCCGCTCC[CT]GATAGTCTGTTTCTTGTAAATATAAAAAAGGAGGGATTGAATTCTGCACCAAGGCAGAGT
44721 I A GTTCCTCCCTCTTTATATGAAGCAAGGCAACACCCT
44721 P G A ATGACGTGGCAGACGCAACAAAGCACTGTAATCY
44721 P A A CGCGCCGAGGACAACAAAGCACTGTAATCTY
44721 T G A GGAGAGATTACAGTGCTTGTTGTGGGGTGTTGCCTTGCTTCATATAAAGAGGGAGGAACCG
44721 T A A GGAGAGATTACAGTGCTTGTTGTGGGTGTTGCCTTGCTTCATATAAAGAGGGAGGAACCG
44721 IS [GA] GTTGTTGAGACTCTAGTTGTTGCCGGTTCCTCCCTCTTTATATGAAGCAAGGCAACACCC[GA]CAACAAAGCACTGTAATCTCTCCATTGACCATCCTTCTGCCCTCAGATCAACACAAGGGC
44722 I S TCCTTGAGCCTGCATCTAATACCCACTGCTCAT
44722 P T S CGCGCCGAGGATCAATCTCTTTTCACTGTTTCY
44722 P C S ATGACGTGGCAGACGTCAATCTCTTTTCACTGTTTCY
44722 T T S ATGGCAAACAGTGAAAAGAGATTGATTGAGCAGTGGGTATTAGATGCAGGCTCAAGGAGG
44722 T C S ATGGCAAACAGTGAAAAGAGATTGACTGAGCAGTGGGTATTAGATGCAGGCTCAAGGAGG
44722 IS [TC] CAAGAAAAGGCTCACAGAGGACACACTTGGGATCAATGGGAAACAGTGAAAAGACATTGA[TC]TGAGCAGTGGGTATTAGATGCAGGCTCAAGGAGGACTCATGCAGAACAGCCTGCAGCTC A
44723 I S TCAAAGGTTCTGGGTTGATTCTTTGTATACTTGTTAGTAGTCCAATGCTTAC
44723 P C S ATGACGTGGCAGAGGACACTTTTTCAGGTAGY
44723 P A S CGCGCCGAGGTGACACCATTTTCAGGTAGY
44723 T C S ACAGCTACCTGAAAATGGTGTCCTAAGCATTGGACTACTAACAAGTATACAAAGAATCAACCCAGAACCTTTGATG
44723 T A S ACAGCTACCTGAAAATGGCTGTCATAAGCATTGGACTACTAACAAGTATACAAAGAATCAACCCAGAACCTTTGATG
44723 IS [CA] TTTGTATAGAACCAGCCCTGCCAAACACACACTAAAAAACAGCTACCTGAAAATGGTGTC[CA]TAAGCATTGGACTACTAACAAGTATACAAAGAATCAACCCAGAACCTTTGATGTGGGTTT
44724 I S GGCAGCAGTCACCCAAAACACCATTGCAT

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Title: Novel Human Kinases
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FIGURE 129F

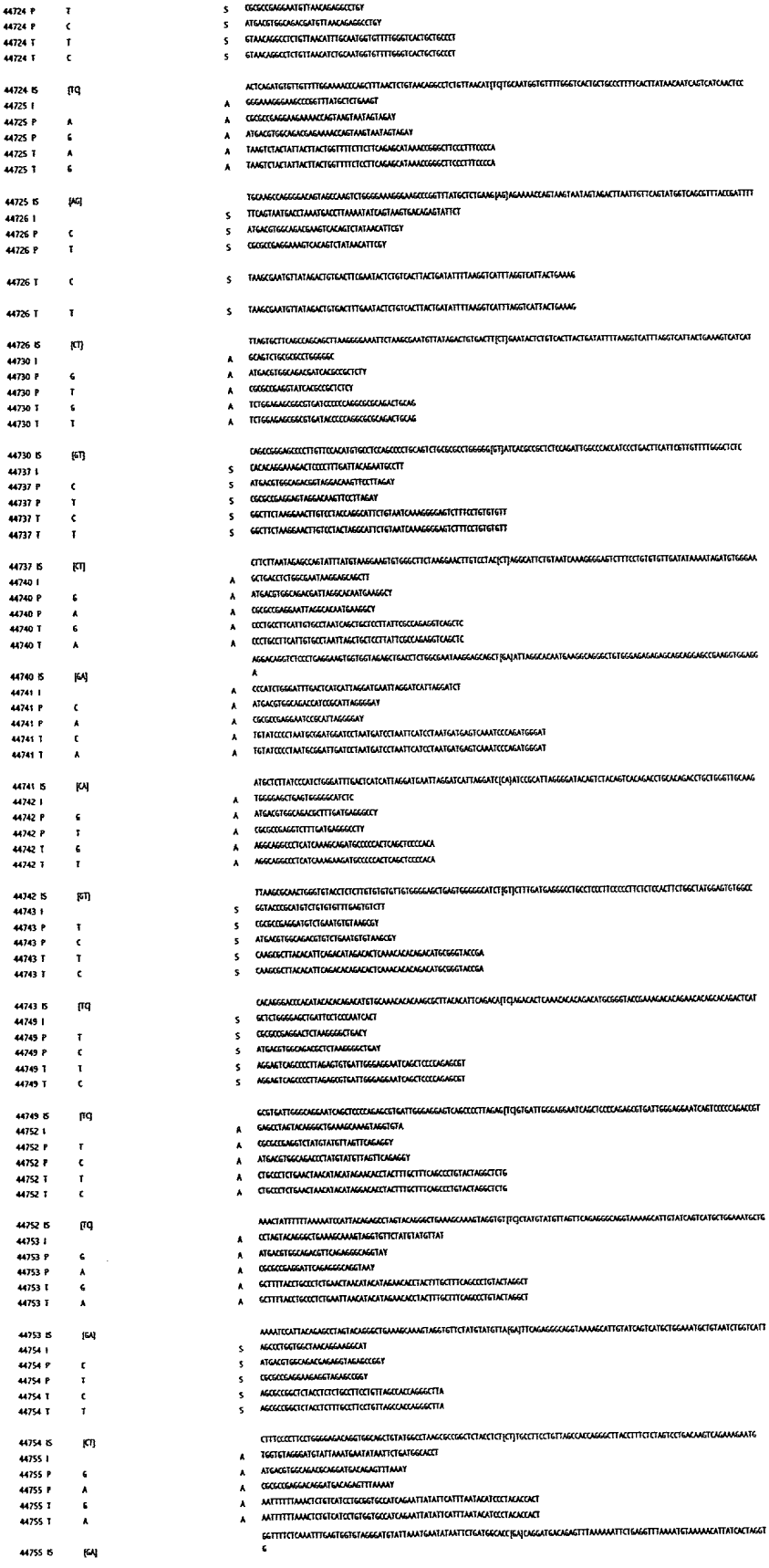

44724 P T S CGCGCCGAGGAATGTTAACAGAGGCCTGY
44724 P C S ATGACGTGGCAGACGATGTTAACAGAGGCCTGY
44724 T T S GTAACAGGCCTCTGTTAACATTGCAATGGTGTTTTGGGTCACTGCTGCCCT
44724 T C S GTAACAGGCCTCTGTTAACATCTGCAATGGTGTTTTGGGTCACTGCTGCCCT
44724 IS [TC] ACTCAGATGTGTTGTTTTGGAAAACCCAGCTTTAACTCTGTAACAGGCCTCTGTTAACAT[TC]TGCAATGGTGTTTTGGGTCACTGCTGCCCTTTTCACTTATAACAATCAGTCATCAACTCC
44725 I A GGGAAAGGGAAGCCCGGTTTATGCTCTGAAGT
44725 P A A CGCGCCAGGAAGAAAACCAGTAAGTAATAGTAGAY
44725 P G A ATGACGTGGCAGACGAGAAAACCAGTAAGTAATAGTAGAY
44725 T A A TAAGTCTACTATTACTTACTGGTTTTCTCTCTTCAGAGCATAAACCGGGCTTCCCTTTCCCCA
44725 T G A TAAGTCTACTATTACTTACTGGTTTTCTCCTTCAGAGCATAAACCGGGCTTCCCTTTCCCCA
44725 IS [AG] TGCAAGCAGGGGACAGTAGCCAAGTCTGGGGAAAGGGAAGCCCGGTTTATGCTCTGAAG[AG]AGAAAACCAGTAAGTAATAGTAGACTTAATTGTTCAGTATGGTCAGCGTTTACCGATTTT
44726 I S TTCAGTAATGACCTAAATGACCTTAAAATATCAGTAAGTGACAGAGTATTCT
44726 P C S ATGACGTGGCAGACGAAGTCACAGTCTATAACATTCGY
44726 P T S CGCGCCGAGGAAAGTCACAGTCTATAACATTCGY
44726 T C S TAAGCGAATGTTATAGACTGTGACTTCGAATACTCTGTCACTTACTGATATTTTAAGGTCATTTAGGTCATTACTGAAAG
44726 T T S TAAGCGAATGTTATAGACTGTGACTTTGAATACTCTGTCACTTACTGATATTTTAAGGTCATTTAGGTCATTACTGAAAG
44726 IS [CT] TTAGTGCTTCAGCCAGCAGCTTAAGGGGAAATTCTAAGCGAATGTTATAGACTGTGACTT[CT]GAATACTCTGTCACTTACTGATATTTTAAGGTCATTTAGGTCATTACTGAAAGTCATCAT
44730 I A GCAGTCTGCGCGCCTGGGGGC
44730 P G A ATGACGTGGCAGACGATCACGCCGCTCTY
44730 P T A CGCGCCGAGGTATCACGCCGCTCTCY
44730 T G A TCTGGAGAGCGGCGTGATCCCCCCAGGCGCGCAGACTGCAG
44730 T T A TCTGGAGAGCGGCGTGATACCCCCAGGCGCGCAGACTGCAG
44730 IS [GT] CAGCCGGGAGCCCCTTGTTCCACATGTGCCTCCAGCCCCTGCAGTCTGCGCGCCTGGGGGG[GT]ATCACGCCGCTCTCCAGATTGGCCCACCATCCCTGACTTCATTCGTTGTTTTGGGCTCTC
44737 I S CACACAGGAAAGACTCCCCTTTGATTACAGAATGCCTT
44737 P C S ATGACGTGGCAGACGGTAGGACAAGTTCCTTAGAY
44737 P T S CGCGCCGAGGAGTAGGACAAGTTCCTTAGAY
44737 T C S GGCTTCTAAGGAACTTGTCCTACCAGGCATTCTGTAATCAAAGGGGAGTCTTTCCTGTGTGTT
44737 T T S GGCTTCTAAGGAACTTGTCCTACTAGGCATTCTGTAATCAAAGGGGAGTCTTTCCTGTGTGTT
44737 IS [CT] CTTCTTAATAGAGCCAGTATTTATGTAAGGAAGTGTGGGCTTCTAAGGAACTTGTCCTAC[CT]AGGCATTCTGTAATCAAAGGGGAGTCTTTCCTGTGTGTTGATATAAAATAGATGTGGGAA
44740 I A GCTGACCTCTGGCGAATAAGGAGCAGCTT
44740 P G A ATGACGTGGCAGACGATTAGGCACAATGAAGGCY
44740 P A A CGCGCCGAGGAATTAGGCACAATGAAGGCY
44740 T G A CCCTGCCTTCATTGTGCCTAATCAGCTGCTCCCTTATTCGCCAGAGGTCAGCTC
44740 T A A CCCTGCCTTCATTGTGCCTAATTAGCTGCTCCCTTATTCGCCAGAGGTCAGCTC
44740 IS [GA] AGGACAGGTCTCCCTCAGGAAGTGGTGGTAGAGCTGACCTCTGGCGAATAAGGAGCAGCT[GA]ATTAGGCACAATGAAGGCAGGGCTGTGGGAGAGAGACGACAGCAGCCGAAGGTGGAGG
A
44741 I A CCCATCTGGGATTTGACTCATCATTAGGATGAATTAGGATCATTAGGATCT
44741 P C A ATGACGTGGCAGACCATCCGCATTAGGGGAY
44741 P A A CGCGCCGAGGAATCCGCATTAGGGGAY
44741 T C A TGTATCCCCTAATGCGGATGGATCCTAATGATCCTAATTCATCCTAATGATGAGTCAAATCCCAGATGGGAT
44741 T A A TGTATCCCCTAATGCGGATTGATCCTAATGATCCTAATTCATCCTAATGATGAGTCAAATCCCAGATGGGAT
44741 IS [CA] ATGCTCTTATCCCATCTGGGATTTGACTCATCATTAGGATGAATTAGGATCATTAGGATC[CA]ATCCGCATTAGGGGATACAGTCTACAGTCACAGACCTGCACAGACCTGCTGGGTTGCAAG
44742 I A TGGGGAGCTGAGTGGGGGCATCTC
44742 P G A ATGACGTGGCAGACGCTTTGATGAGGGCCY
44742 P T A CGCGCCGAGGTCTTTGATGAGGGCCTY
44742 T G A AGGCAGGCCTCATCAAAGCAGATGCCCCCACTCAGCTCCCCACA
44742 T T A AGGCAGGCCTCATCAAAGAAGATGCCCCCACTCAGCTCCCCACA
44742 IS [GT] TTAAGGCAACTGGGTGTAGCTCTCTGTGTGTGTGTGGGGAGCTGAGTGGGGGCATCT[GT]CTTTGATGAGGGCCTGCCTCCCTTCCCCCTTCTCTCCACTTCTGGCTATGGAGTGTGGCC
44743 I S GGTACCCGCATGTCTGTGTTTGAGTGTCTT
44743 P T S CGCGCCGAGGATGTCTGAATGTGTAAGCGY
44743 P C S ATGACGTGGCAGACGTGTCTGAATGTGTAAGCGY
44743 T T S CAAGCGCTTACACATTCAGACATAGACACTCAAACACACAGACATGCGGGTACCGA
44743 T C S CAAGCGCTTACACATTCAGACACAGACACTCAAACACACAGACATGCGGGTACCGA
44743 IS [TC] CACAGGGAACCCACATACACACAGACATGTGCAAACACACAAGCGCTTACACATTCAGACA[TC]AGACACTCAAACACACAGACATGCGGGTACCGAAAGACACAGAACACAGCACAGACTCAT
44749 I S GCTCTGGGGAGCTGATTCCTCCCAATCACT
44749 P T S CGCGCCGAGGACTCTAAGGGGCTGACY
44749 P C S ATGACGTGGCAGACGCTCTAAGGGGCTGAY
44749 T T S AGGAGTCAGCCCCTTAGAGTGTGATTGGGAGGAATCAGCTCCCCAGAGGST
44749 T C S AGGAGTCAGCCCCTTAGAGGGTGATTGGGAGGAATCAGCTCCCCAGAGCST
44749 IS [TC] GCGTGATTGGGCAGGAATCAGCTCCCCAGAGCGTGATTGGGAGGAGTCAGCCCCTTAGAG[TC]GTGATTGGGAGGAATCAGCTCCCCAGAGCGTGATTGGGAGGAATCAGTCCCCCAGACCGT
44752 I A GAGCCTAGTACAGGGCTGAAAGCAAAGTAGGTGTA
44752 P T A CGCGCCGAGGTCTATGTATGTTAGTTCAGAGGY
44752 P C A ATGACGTGGCAGACCCTATGTATGTTAGTTCAGAGGY
44752 T T A CTGCCCTCTGAACTAACATACATAGAACACACTACTTTGCTTTCAGCCCTGTACTAGGCTCTG
44752 T C A CTGCCCTCTGAACTAACATACATAGGACACACTACTTTGCTTTCAGCCCTGTACTAGGCTCTG
44752 IS [TC] AAACTATTTTTTAAAAATCCATTACAGAGCCTAGTACAGGGCTGAAAGCAAAGTAGGTGT[TC]CTATGTATGTTAGTTCAGAGGGCAGGTAAAAGCATTGTATCAGTCATGCTGGAAATGCTG
44753 I A CCTAGTACAGGGCTGAAAGCAAAGTAGGTGTTCTATGTATGTTAT
44753 P G A ATGACGTGGCAGACGTTCAGAGGGCAGGTAY
44753 P A A CGCGCCGAGGATTCAGAGGGCAGGTAAY
44753 T G A GCTTTACCTGCCCTCTGAATTAACATACATAGAACACCTACTTTGCTTTCAGCCCTGTACTAGGCT
44753 T A A GCTTTACCTGCCCTCTGAATTAACATACATAGAACACCTACTTTGCTTTCAGCCCTGTACTAGGCT
44753 IS [GA] AAAATCCATTACAGAGCCTAGTACAGGGCTGAAAGCAAAGTAGGTGTTCTATGTATGTTA[GA]TTCAGAGGGCAGGTAAAAGCATTGTATCAGTCATGCTGGAAATGCTGTAATCTGGTCATT
44754 I S AGCCCTGGTGGCTAACAGGAAGGCAT
44754 P C S ATGACGTGGCAGACGAGAGGTAGAGCCGGY
44754 P T S CGCGCCAGGAAGAGGTAGAGCCGGY
44754 T C S AGCGCCGGCTCTACCTCTCTGCCTTCCTGTTAGCCACCAGGGCTTA
44754 T T S AGCGCCGGCTCTACCTCTTTGCCTTCCTGTTAGCCACCAGGGCTTA
44754 IS [CT] CTTTCCCCTTCCTGGGGAGACAGGTGGCAGCTGTATGGCCTAAGCGCCGGCTCTACCTCT[CT]TGCCTTCCTGTTAGCCACCAGGGCTTACCTTTCTCTAGTCCTGACAAGTCAGAAAGAATG
44755 I A TGGTGTAGGGATGTATTAAATGAATATAATTCTGATGGCACCT
44755 P G A ATGACGTGGCAGACGCAGGATGACAGAGTTTAAAY
44755 P A A CGCGCCGAGGACAGGATGACAGAGTTTAAAAY
44755 T G A AATTTTTTAAACTCTGTCATCCTGCGGTGCCATCAGAATTATATTCATTTAATACATCCCTACACCACT
44755 T A A AATTTTTTAAACTCTGTCATCCTGTGGTGCCATCAGAATTATATTCATTTAATACATCCCTACACCACT
44755 IS [GA] GGTTTTCTCAAATTTGAGTGGTGTAGGGATGTATTAAATGAATATAATTCTGATGGCACC[GA]CAGGATGACAGAGTTTAAAAATTCTGAGGTTTAAAATGTAAAAACATTATCACTAGGT
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FIGURE 129F

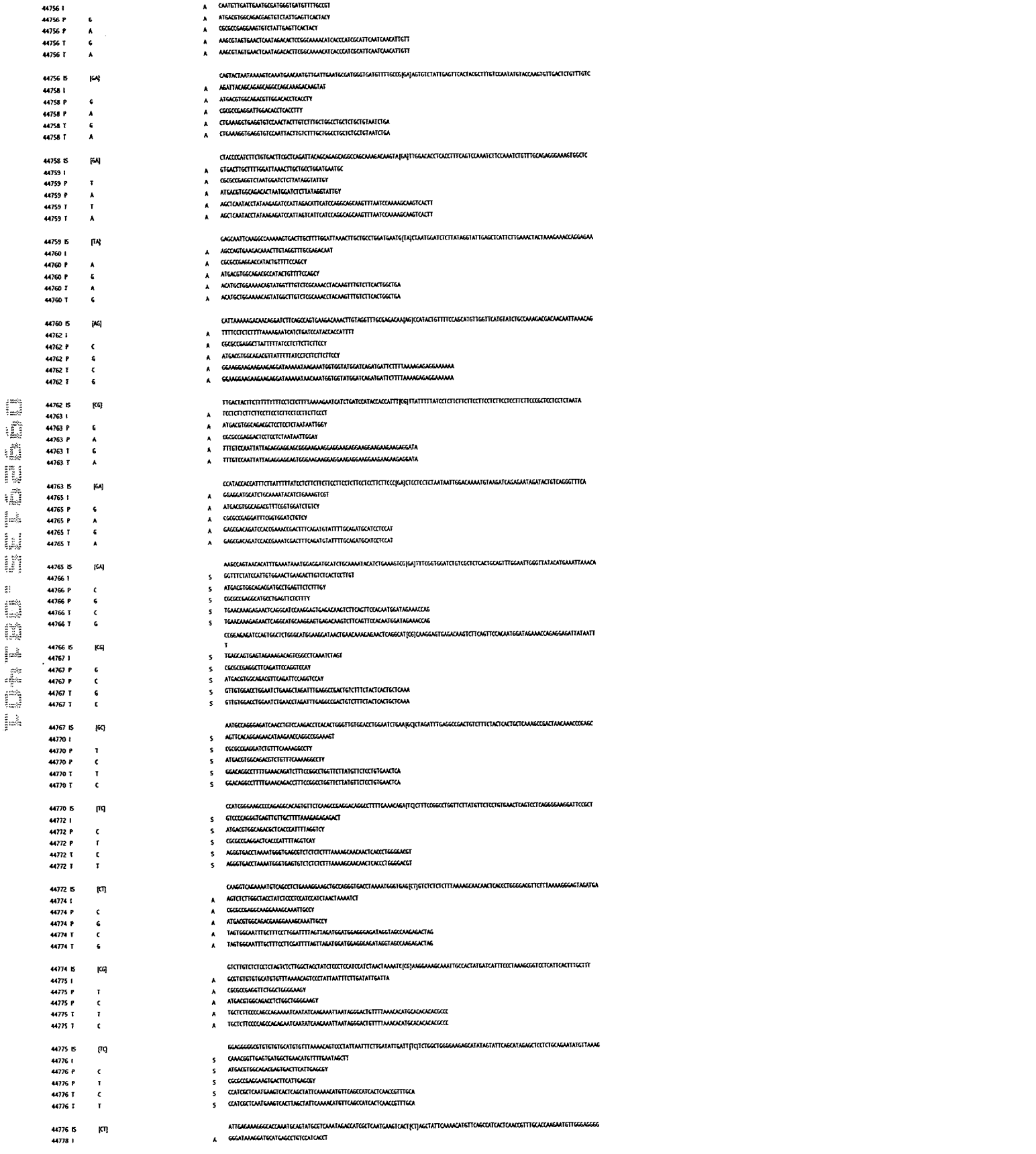

44756 I A CAATGTTGATTGAATGGGATGGGTGATGTTTTGCCGT
44756 P G A ATGACGTGGCAGACGAGTGTCTATTGAGTTCACTACY
44756 P A A CGCGCCGAGGAAGTGTCTATTGAGTTCACTACY
44756 T G A AAGCGTAGTGAACTCAATAGACACTCCGGCAAAACATCACCCATCGCATTCAATCAACATTGTT
44756 T A A AAGCGTAGTGAACTCAATAGACACTTCGGCAAAACATCACCCATCGCATTCAATCAACATTGTT
44756 IS [GA] CAGTACTAATAAAAGTCAAATGAACAATGTTGATTGAATGCGATGGGTGATGTTTTGCCG[GA]AGTGTCTATTGAGTTCACTACGCTTTGTCCAATATGTACCAAGTGTTGACTCTGTTTGTC
44758 I A AGATTACAGCAGACAGGCCAGCAAAGACAGTAT
44758 P G A ATGACGTGGCAGACGTTGGACACCTCACCTY
44758 P A A CGCGCCGAGGATTGGACACCTCACCTTY
44758 T G A CTGAAAGGTGAGGTGTCCAACTACTTGTCTTTGCTGGCCTGCTCTGCTGTAATCTGA
44758 T A A CTGAAAGGTGAGGTGTCCAATTACTTGTCTTTGCTGGCCTGCTCTGCTGTAATCTGA
44758 IS [GA] CTACCCCATCTTCTGTGACTTCGCTCAGATTACAGCAGAGCAGGCCAGCAAAGACAAGTA[GA]TTGGACACCTCACCTTTCAGTCCAAATCTTCCAAATCTGTTTGCAGAGGGAAAGTGGCTC
44759 I A GTGACTTGCTTTTGGATTAAACTTGCTGCCTGGATGAATGC
44759 P T A CGCGCCGAGGTCTAATGGATCTCTTATAGGTATTGY
44759 P A A ATGACGTGGCAGACACTAATGGATCTCTTATAGGTATTGY
44759 T T A AGCTCAATACCTATAAGAGATCCATTAGACATTCATCCAGGCAGCAAGTTTAATCCAAAAGCAAGTCACTT
44759 T A A AGCTCAATACCTATAAGAGATCCATTAGTCATTCATCCAGGCAGCAAGTTTAATCCAAAAGCAAGTCACTT
44759 IS [TA] GAGCAATTCAAGGCCAAAAAGTCACTTGCTTTTGGATTAAACTTGCTGCCTGGATGAATG[TA]CTAATGGATCTCTTATAGGTATTGAGCTCATTCTTGAAACTACTAAAGAAACCAGGAGAA
44760 I A AGCCAGTGAAGACAAACTTGTAGGTTTGCGAGACAAT
44760 P A A CGCGCCGAGGACCATACTGTTTTCCAGCY
44760 P G A ATGACGTGGCAGACGCCATACTGTTTTCCAGCY
44760 T A A ACATGCTGGAAAACAGTATGGTTTGTCTCGCAAACCTACAAGTTTGTCTTCACTGGCTGA
44760 T G A ACATGCTGGAAAACAGTATGGCTTGTCTCGCAAACCTACAAGTTTGTCTTCACTGGCTGA
44760 IS [AG] CATTAAAAAGACAACAGGATCTTCAGCCAGTGAAGACAAACTTGTAGGTTTGCGAGACAA[AG]CCATACTGTTTTCCAGCATGTTGGTTCATGTATCTGCCAAAGACGACAACAATTAAACAG
44762 I A TTTTCCTCTCTTTTAAAAGAATCATCTGATCCATACCACCATTTT
44762 P C A CGCGCCGAGGCTATTTTTATCCTCTCTTCTTCCY
44762 P G A ATGACGTGGCAGACGTTATTTTTATCCTCTCTTCTTCCY
44762 T C A GCAAGGAAGAAGAAGAGGATAAAAATAAGAAATGGTGGTATGGATCAGATGATTCTTTTAAAAGACAGGAAAAAA
44762 T G A GCAAGGAAGAAGAAGAGGATAAAAATAACAAATGGTGGTATGGATCAGATGATTCTTTTAAAAGACAGGAAAAAA
44762 IS [CG] TTGACTACTTCTTTTTTTTTCCTCTCTTTTAAAAGAATCATCTGATCCATACCACCATTT[CG]TTATTTTTATCCTCTCTTCTTCCTCCTCTTCCTCCTCCTTCCCGCTCCTCCTCTAATA
44763 I A TCCTCTTCTTCTTCCTTCCTCTTCCTCCTTCTTCCT
44763 P G A ATGACGTGGCAGAGGCTCCTCCTCTAATAATTGGY
44763 P A A CGCGCCGAGGACTCCTCCTCTAATAATTGGAY
44763 T G A TTTGTCCAATTATTAGAGGAGGAGTGGGAAGAAGGAGGAAGAGGAAGGAGGAAGAAGAGAGGATA
44763 T A A TTTGTCCAATTATTAGAGGAGGAGTGGGAAGAAGGAGGAAGAGGAAGGAGGAAGAAGAGAGGATA
44763 IS [GA] CCATACCACCATTTCTTATTTTTATCCTCTTCTTCCTTCCTCCTCTTCTTCCC[GA]CTCCTCCTCCTCTAATAATTGGACAAAATGTAAGATCAGAGAATAGATACTGTCAGGGTTTCA
44765 I A GGAGCATGCATCTGCAAAATACATCTGAAAGTCGT
44765 P G A ATGACGTGGCAGACGTTTCGGTGGATCTGTCY
44765 P A A CGCGCCGAGGATTCGGTGGATCTGTCY
44765 T G A GAGCGACAGATCCACCGAAACCGACTTTCAGATGTATTTTGCAGATGCATCCTCCAT
44765 T A A GAGCGACAGATCCACCGAAATCGACTTTCAGATGTATTTTGCAGATGCATCCTCCAT
44765 IS [GA] AAGCCAGTAACACATTTGAAATAAATGGACGATGCATCTGCAAAATACATCTGAAAGTCG[GA]TTCGGTGGATCTGTCGCTCTCACTGCAGTTTGGAATTGGGTTATACATGAAATTAAACA
44766 I S GGTTTCTATCCATTGTGGAACTGAAGACTTGTCTCACTCCTTGT
44766 P C S ATGACGTGGCAGACGATGCCTGAGTTCTCTTTGY
44766 P G S CGCGCCGAGGCATGCCTGAGTTCTCTTTY
44766 T C S TGAACAAAGAAGAACTCAGGCATGCAAGGAGTGAGACAAGTCTTCAGTTCCACAATGGATAGAAACCAG
44766 T G S TGAACAAAGAAGAACTCAGGCATGCAAGGAGTGAGACAAGTCTTCAGTTCCACAATGGATAGAAACCAG
44766 IS [CG] CCGGAGAGATCCAGTGGCTCTGGGCATGCAAGGATAACTGAACAAACAAGAACTCAGGCAT[CG]CAAGGAGTGAGACAAGTCTTCAGTTCCACAATGGATAGAAACCAGAGGAGATTATAATT
T
44767 I S TGAGCAGTGAGTAGAAAGACAGTCGGCCTCAAATCTAGT
44767 P G S CGCGCCGAGGCTTCAGATTCCAGGTCCAY
44767 P C S ATGACGTGGCAGACGTTCAGATTCCAGGTCCAY
44767 T G S GTTGTGGAACCTGGAATCTGAAGCTAGATTTGAGGCCGACTGTCTTTCTACTCACTGCTCAAA
44767 T C S GTTGTGGAACCTGGAATCTGAACCTAGATTTGAGGCCGACTGTCTTTCTACTCACTGCTCAAA
44767 IS [GC] AATGCCAGGGAGATCAACCTGTCCAAGACCTCACACTGGGTTGTGGACCTGGAATCTGAA[GC]CTAGATTTGAGGCCGACTGTCTTTCTACTCACTGCTCAAAGCCGACTAACAAACCCCAGC
44770 I S AGTTCACAGGAGAACATAAGAACCAGGCCGGAAAGT
44770 P T S CGCGCCGAGGATCTGTTTCAAAAGGCCTY
44770 P C S ATGACGTGGCAGACGTCTGTTTCAAAAGGCCTY
44770 T T S GGACAGGCCTTTTGAAACAGATCTTTCCGGCCTGGTTCTTATGTTCTCCTGTGAACTCA
44770 T C S GGACAGGCCTTTTGAAACAGACCTTTCCGGCCTGGTTCTTATGTTCTCCTGTGAACTCA
44770 IS [TC] CCATCGGGAAGCCCCAGAGGCACAGTGTTCTCAAGCCGAGGACAGGCCTTTTGAAACAGA[TC]CTTTCCGGCCTGGTTCTTATGTTCTCCTGTGAACTCAGTCCTCAGGGGAAGGATTCCGCT
44772 I S GTCCCCAGGGTGAGTTGTTGCTTTAAAGAGAGAGACT
44772 P C S ATGACGTGGCAGACGCTCACCCATTTTAGGTCY
44772 P T S CGCGCCCAGGACTCACCCATTTTAGGTCAY
44772 T C S AGGGTGACCTAAAATGGGTGAGTGTCTCTCTCTTTAAAAGCAACAACTCACCCTGGGGACGT
44772 T T S AGGGTGACCTAAAATGGGTGAGTGTCTCTCTCTTTAAAAGCAACAACTCACCCTGGGGACGT
44772 IS [CT] CAAGGTCAGAAAATGTCAGCCTCTGAAAGGAAGCTGCCAGGGTGACCTAAAATGGGTGAG[CT]GTCTCTCTCTTTAAAAGCAACAACTCACCCTGGGGACGTTCTTTAAAAGGGAGTAGATGA
44774 I A AGTCTCTTGGCTACCTATCTCCCTCCATCCATCTAACTAAAATCT
44774 P C A CGCGCCGAGGCAAGGAAAGCAAATTGCCY
44774 P G A ATGACGTGGCAGACGAAGGAAAGCAAATTGCCY
44774 T C A TAGTGGCAATTTGCTTTCCTTGGATTTTAGTTAGATGGATGGAGGGAGATAGGTAGCCAAGAGACTAG
44774 T G A TAGTGGCAATTTGCTTTCCTTGGATTTTAGTTAGATGGATGGAGGGAGATAGGTAGCCAAGAGACTAG
44774 IS [CG] GTCTTGTCTCTCCTCTAGTCTCTTGGCTACCTATCTCCCTCCATCCATCTAACTAAAATC[CG]AAGGAAAGCAAATTGCCACTATGATCATTTCCCTAAAGCGATCCTCATTCACTTTGCTTT
44775 I A GGGTGTGTGTGGATGTGTTTAAAACAGTCCCTATTAATTTCTTGATATTGATTA
44775 P T A CGCGCCGAGGTTCTGGCTGGGGAAGY
44775 P C A ATGACGTGGCAGACCTCTGGCTGGGGAAGY
44775 T T A TGCTCTTCCCCAGCCAGAAAATCAATATCAAGAAATTAATAGGGACTGTTTTAAACACATGCACACACACGCCC
44775 T C A TGCTCTTCCCCAGCCAGAAATCAATATCAAGAAATTAATAGGGACTGTTTTAAACACATGCACACACACGCCC
44775 IS [TC] GGAGGGGGCGTGTGTGCATGTGTTTAAAACAGTCCCTATTAATTTCTTGATATTGATT[TC]CTCGGCTGGGGAAGAGCATATAGTATTCAGCATAGAGCTCCTCTGCAGAATATGTTAAAG
44776 I S CAAACGGTTGAGTGATGGCTGAACATGTTTTGAATAGCTT
44776 P C S ATGACGTGGCAGACGAGTGACTTCATTGAGCGY
44776 P T S CGCGCCGAGGAAGTGACTTCATTGAGCGY
44776 T C S CCATCGCTCAATGAAGTCACTCAGCTATTCAAAACATGTTCAGCCATCACTCAACCGTTTGCA
44776 T T S CCATCGCTCAATGAAGTCACTTAGCTATTCAAAACATGTTCAGCCATCACTCAACCGTTTGCA
44776 IS [CT] ATTGAGAAAGGGCACCAAATGCAGTATGCGTCAAATAGACCATCGCTCAATGAAGTCAC[CT]AGCTATTCAAAACATGTTCAGCCATCACTCAACCGTTTGCACCAAGAATGTTGGGAGGGG
44778 I A GGGATAAAGGATGCATGAGCCTGTCCATCACCT

FIGURE 129F

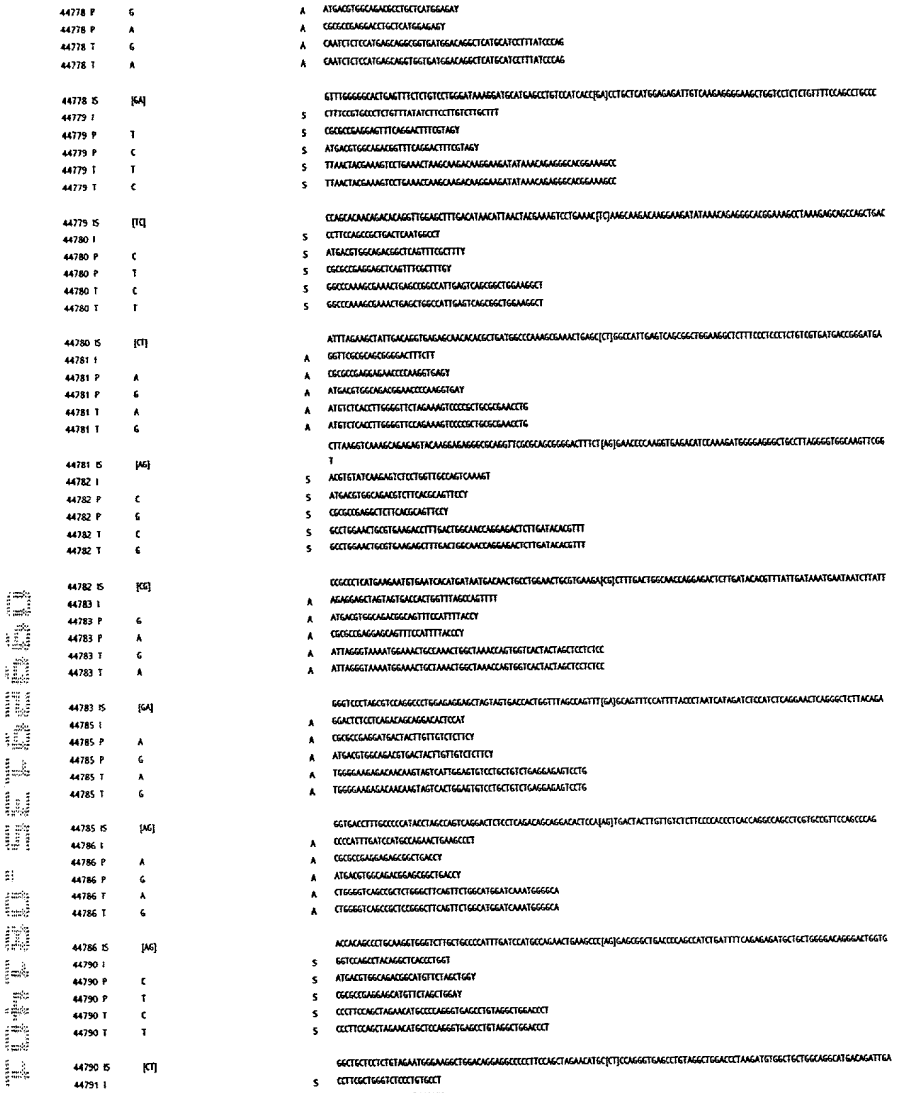

44778 P G A ATGACGTGGCAGACGCCTGCTCATGGAGAY
44778 P A A CGCGCCGAGGACCTGCTCATGGAGAGY
44778 T G A CAATCTCTCCATGAGCAGGCGGTGATGGACAGGCTCATGCATCCTTTATCCCAG
44778 T A A CAATCTCTCCATGAGCAGGTGGTGATGGACAGGCTCATGCATCCTTTATCCCAG
44778 IS [GA] GTTTGGGGGCACTGAGTTTCTCTGTCCTGGGATAAGGATGCATGAGCCTGTCCATCACC[GA]CCTGCTCATGGAGAGATTGTCAAGAGGGGAAGCTGGTCCTCTCTGTTTTCCAGCCTGCCC
44779 I S CTTTCCGTGCCCTCTGTTTATATCTTCCTTGTCTTGCTTT
44779 P T S CGCGCCGAGGAGTTTCAGGACTTTCGTAGY
44779 P C S ATGACGTGGCAGACGGTTTCAGGACTTTCGTAGY
44779 T T S TTAACTACGAAAGTCCTGAAACTAAGCAAGACAAGGAAGATATAAACAGAGGGCACGGAAAGCC
44779 T C S TTAACTACGAAAGTCCTGAAACCAAGCAAGACAAGGAAGATATAAACAGAGGGCACGGAAAGCC
44779 IS [TC] CCAGCACAACAGACACAGGTTGGAGCTTTGACATAACATTAACTACGAAAGTCCTGAAAC[TC]AAGCAAGACAAGGAAGATATAAACAGAGGGCACGGAAAGCCTAAAGAGCAGCCCAGCTGAC
44780 I S CCTTCCAGCCGCTGACTCAATGGCCT
44780 P C S ATGACGTGGCAGACGGCTCAGTTTCGCTTTY
44780 P T S CGCGCCGAGGAGCTCAGTTTCGCTTTGY
44780 T C S GGCCCAAAGCGAAACTGAGCGGCCATTGAGTCAGCGGCTGGAAGGCT
44780 T T S GGCCCAAAGCGAAACTGAGCTGGCCATTGAGTCAGCGGCTGGAAGGCT
44780 IS [CT] ATTTAGAAGCTATTGACAGGTGAAGACAACACACGCTGATGGCCCAAAGCGAAACTGAGC[CT]GGCCATTGAGTCAGCGGCTGGAAGGCTCTTTCCCTCCCTCTGTCGTGATGACCGGGATGA
44781 I A GGTTCGCGCAGCGGGGACTTTCTT
44781 P A A CGCGCCGAGGAGAACCCAAGGTGAGY
44781 P G A ATGACGTGGCAGACGGAACCCAAGGTGAY
44781 T A A ATGTCTCACCTTGGGGTTCTAGAAAGTCCCCGCTGCGCGAACCTG
44781 T G A ATGTCTCACCTTGGGGTTCCAGAAAGTCCCCGCTGCGCGAACCTG
44781 IS [AG] CTTAAGGTCAAAGCAGAGAGTACAAGGAGAGGGCGCAGGTTCGCGCAGCGGGGACTTTCT[AG]GAACCCCAAGGTGAGACATCCAAAGATGGGGAGGGCTGCCTTAGGGGTGGCAAGTTCGG
T
44782 I S ACGTGTATCAAGAGTCTCCTGGTTGCCAGTCAAAGT
44782 P C S ATGACGTGGCAGACGTCTTCACGCAGTTCCY
44782 P G S CGCGCCGAGGCTCTTCACGCAGTTCCY
44782 T C S GCCTGGAACTGCGTGAAGACCTTGACTGGCAACCAGGAGACTCTTGATACACGTTT
44782 T G S GCCTGGAACTGCGTGAAGAGCTTTGACTGGCAACCAGGAGACTCTTGATACACGTTT
44782 IS [CG] CCGCCCTCATGAAGAATGTGAATCACATGATAATGACAACTGCCTGGAACTGCGTGAAGA[CG]CTTTGACTGGCAACCAGGAGACTCTTGATACACGTTTATTGATAAATGAATAATCTTATT
44783 I A AGAGGAGCTAGTAGTGACCACTGGTTTAGCCAGTTTT
44783 P G A ATGACGTGGCAGACGGCAGTTTCCATTTTACCY
44783 P A A CGCGCCGAGGAGCAGTTTCCATTTTACCCY
44783 T G A ATTAGGGTAAAATGGAAACTGCCAAACTGGCTAAACCAGTGGTCACTACTAGCTCCTCTCC
44783 T A A ATTAGGGTAAAATGGAAACTGCTAAACTGGCTAAACCAGTGGTCACTACTAGCTCCTCTCC
44783 IS [GA] GGGTCCCTAGCGTCCAGGCCCTGGAGAGGAGCTAGTAGTGACCACTGGTTTAGCCAGTTT[GA]GCAGTTTCCATTTTACCCTAATCATAGATCTCCCATCTCAGGAACTCAGGGCTCTTACAGA
44785 I A GGACTCTCCTCAGACAGCAGGACACTCCAT
44785 P A A CGCGCCGAGGATGACTACTTGTTGTCTCTTCY
44785 P G A ATGACGTGGCAGACGTGACTACTTGTTGTCTCTTCY
44785 T A A TGGGCAAGAGACAACAAGTAGTCATTGGAGTGTCCTGCTGTCTGAGGAGAGTCCTG
44785 T G A TGGGCAAGAGACAACAAGTAGTCACTGGAGTGTCCTGCTGTCTGAGGAGAGTCCTG
44785 IS [AG] GGTGACCTTTGCCCCCATACCTAGCCAGTCAGGACTCTCCTCAGACAGCAGGACACTCCA[AG]TGACTACTTGTTGTCTCTTCCCCACCCTCACCAGGCCAGCCTCGTGCCGTTCCAGCCCAG
44786 I A CCCCATTTTGATCCATGCCAGAACTGAAGCCCT
44786 P A A CGCGCCGAGGAGAAGCCGCTGACCY
44786 P G A ATGACGTGGCAGACGGAAGCGGCTGACCY
44786 T A A CTGGGGTCAGCCGCTCTGGGCTTCAGTTCTGGCATGGATCAAATGGGGCA
44786 T G A CTGGGGTCAGCCGCTCCGGGCTTCAGTTCTGGCATGGATCAAATGGGGCA
44786 IS [AG] ACCACAGCCCTGCAAGGTGGGTCTTGCTGCCCCATTTGATCCATGCCAGAACTGAAGCCC[AG]GAGCGGCTGACCCCAGCCATCTGATTTTCAGAGAGATGCTGCTGGGGACAGGGACTGGTG
44790 I S GGTCCAGCCTACAGGCTCACCCTGGT
44790 P C S ATGACGTGGCAGACGGCATGTTCTAGCTGGY
44790 P T S CGCGCCGAGGAGCATGTTCTAGCTGGAY
44790 T C S CCCTTCCAGCTAGAACATGCCCCAGGGTGAGCCTGTAGGCTGAACCCT
44790 T T S CCCTTCCAGCTAGAACATGCTCCAGGGTGAGCCTGTAGGCTGAACCCT
44790 IS [CT] GGCTGCTCCTCTGTAGAATGGGAAGGCTGGACAGGAGGCCCCCTTCCAGCTAGAACATGC[CT]CCAGGGTGAGCCTGTAGGCTGGACCCTAAGATGTGGCTGCTGGCAGGCATGACAGATTGA
44791 I S CCTTCGCTGGGTCTCCCTGTGCCT
44791 P T S CGCGCCGAGGAACCAGGTGCCCCY
44791 P C S ATGACGTGGCAGACCACCAGGTGCCCCY
44791 T T S CTTGGGGGCACCTGGTTGGCACAGGGAGACCCAGCGAAGGGC
44791 T C S CTTGGGGGCACCTGGTCGGCACAGGGAGACCCAGCGAAGGGC
44791 IS [TC] CATGGGCTTTGGGGGCTCCCAAAATCACAGCTCAGTGAGCACAGCTTGGGGGCACCTGGT[TC]GGCACAGGGAGACCCAGCGAAGGGCAGCACCTGGCTCAGGCCTCTCAGCAGACATGAGGG
44793 I A GGGAGGGGCACAGTGTGACAGCAGCT
44793 P A A CGCGCCGAGGATGCAGGGGATACACCY
44793 P G A ATGACGTGGCAGACGTGCAGGGGATACACCY
44793 T A A TGCTGGTGTATCCCCTCCATGCTCCTCTCACACTGTGCCCCTCCCCG
44793 T G A TGCTGGTGTATCCCCTCCACGCTCCTCTCACACTGTGCCCCTCCCCG
44793 IS [AG] GGGCAGCCAGGCAGGCAGACACGCAGCTGGGACGGGGAGGGGCACAGTGTGAGAGGAGC[AG]TGGAGGGGATACACCAGCAGGACTGGTGAGATTTGGGGTCTTTGTCCCCAGGACAATGG
G
44796 I A GATGACAGTGGAGCCATGGAAGGGGAAAGAAATT
44796 P G A ATGACGTGGCAGACGGACAGGACTTGGTGAY
44796 P A A CGCGCCGAGGAGACAGGACTTGGTGATY
44796 T G A CTCCATCACCAAGTCCTGTCCATTTCTTTCCCCTTCCATGGCTCCACTGTCATCCC
44796 T A A CTCCATCACCAAGTCCTGTCTATTTCTTTCCCCTTCCATGGCTCCACTGTCATCCC
44796 IS [GA] CCCCCTGAGCAAAGCGATAGCGGCTGGGGATGACAGTGGAGCCATGGAAGGGGAAAGAAAT[GA]GACAGGACTTGGTGATGGAGGAGACCCAAGGGGTGACAGCCAGGTGGGAGTCAGAGTGC
C
44797 I A GTTCTCAGCCTCTGGTCATCAAAAAACCTGAAGACACAA
44797 P T A CGCGCCGAGGTACCTTCAGGGAGCTAGY
44797 P C A ATGACGTGGCAGACCACCTTCAGGGAGCTAY
44797 T T A GACCCTAGCTCCCTGAAGGTATGTGTCTTCAGGTTTTTTGATGACCAGAGGCTGAGAACAC
44797 T C A GACCCTAGCTCCCTGAAGGTGTGTGTCTTCAGGTTTTTTGATGACCAGAGGCTGAGAACAC
44797 IS [TC] CACTTGGAATTGGATTCAGAGTGTTCTCAGCCTCTGGTCATCAAAAAACCTGAAGACACA[TC]ACCTTCAGGGAGCTAGGGTCAGCTCTCCTCTGCTGAGTGCATGGGGAAGTGACAAAAGAG
44799 I A GGAGATTAGTGGTATCCCCAGGGCCCTGTAA
44799 P C A ATGACGTGCCAGACCCTCAAAAGTGGGGCTY
44799 P T A CGCGCCGAGGTCTCAAAAGTGGGGCTY
44799 T C A GGACAGCCCCACTTTTGAGGTACACGGCCCTGGGGATACCACTAATCTCCAC
44799 T T A GGACAGCCCCACTTTTGAGATACACGGCCCTGGGGATACCACTAATCTCCAC
44799 IS [CT] ACTGACAGAACTTGGTGATTATTGGTACGTGGAGATTAGTGGTATCCCCAGGGCCGTGTA[CT]CTCAAAAGTGGGGCTGTCCAGCTCTCCAAGGAGTGGACCCGCTGCCCTGGTCAGCTGTGC
44800 I S CAGGCACAGCTGACCAGGGCAGCT
44800 P C S ATGACGTGCCAGACGGGTCCACTCCTTGGY

FIGURE 129F

44800	P	T	S	CGCGCCGAGGAGGTCCACTCCTTGGY
44800	T	C	S	CTCTCCAAGGAGTGGACCCGCTGCCCTGGTCAGCTGTGCCTGCA
44800	T	T	S	CTCTCCAAGGAGTGGACCTGCTGCCCTGGTCAGCTGTGCCTGCA
44800	IS	[CT]		GGTATCCCCAGGGCCGTGTACCTCAAAAGTGGGGCTGTCCAGCTCTCCAAGGAGTGGACC[CT]GCTGCCCTGGTCAGCTGTGCCTGCAGTGGAGCTCTGAAGCTACAAGTGCAAGCCTGCCCC
44802	I		A	AAAGATTCCACACACCCCTTCGTCAATGGT
44802	P	G	A	ATGACGTGGCAGACGCCAGCCTGTGTACCY
44802	P	C	A	CGCGCCGAGGCCCAGCCTGTGTACCY
44802	T	G	A	GGGGGTACACAGGCTGGCCCATTGACGAAGGGGTGTGTGGAATCTTTCT
44802	T	C	A	GGGGGTACACAGGCTGGGCCATTGACGAAGGGGTGTGTGGAATCTTTCT
44802	IS	[GC]		GAAAGTCACCAGGGGTGCAGTGAAATCAAAGAAAGATTCCACACACCCCTTCGTCAATGG[GC]CCAGCCTGTGTACCCCCCACCAGAGCCTGGGGCTAGGGGATGCCCCCCACACACCCACGA
44803	I		S	GGCAGCTGCGGCAGGTAGCAGCT
44803	P	T	S	CGCGCCGAGGAATCAGAGGGCAGGGY
44803	P	G	S	ATGACGTGGCAGACCATCAGAGGGCAGGGY
44803	T	T	S	CGGTCCCTGCCCTCTGATTGCTGCTACCTGCCGCAGCTGCCAG
44803	T	G	S	CGGTCCCTGCCCTCTGATGGCTGCTACCTGCCGCAGCTGCCAG
44803	IS	[TG]		ATTCCCTGAAGGACCCTGGGCAGGTCTCAGGCACGGGAGGAGCGGTCCCTGCCCTCTGAT[TG]GCTGCTACCTGCCGCAGCTGCCAGGCCCAGGCAGTCCCCTCTCCTCCCCTTTGGAAGGTC
44804	I		S	GGCCGTTAGCTACTGGTGGGATTTGAGCATGT
44804	P	C	S	ATGACGTGGCAGACGTATTTCCCTATCCGTTGTGY
44804	P	T	S	CGCGCCGAGGATATTTCCCTATCCGTTGTGY
44804	T	C	S	TCTCCACAACGGATAGGGAAATACCATGCTCAAATCCCACCAGTAGCTAACGGCCCA
44804	T	T	S	TCTCCACAACGGATAGGGAAATATCATGCTCAAATCCCACCAGTAGCTAACGGCCCA
44804	IS	[CT]		ACACACTGTTCCCACCCACTCTGAGCTGCCATGCTCCTCTCCACAACGGATAGGGAAATA[CT]CATGCTCAAATCCCACCAGTAGCTAACGGCCCACAAGGGGGTTCGCTCCTCCACCGGGAG
44805	I		S	CAGCCCCTGCCCTGGCTTCCTGC
44805	P	T	S	CGCGCCGAGGATTCTCTGGGGTTCCCY
44805	P	A	S	ATGACGTGGCAGACTTTCTCTGGGGTTCCCY
44805	T	T	S	GCCTGGGAACCCCAGAGAATCAGGAAGCCAGGGCAGGGGCTGGG
44805	T	A	S	GCCTGGGAACCCCAGAGAAACAGGAAGCCAGGGCAGGGGCTGGG
44805	IS	[TA]		ATCCCTGTCCTCTAAGAGCTCCACAACACATGGAGAAAAAGGCCTGGGAACCCCAGAGAA[TA]CAGGAAGCCAGGGCAGGGGCTGGGGGAATCTTGAAGCAGTCTCCCAAAAGCGAGCAAATC
44806	I		A	GCCAGTGCCCACCTAGCCTGGTCT
44806	P	A	A	CGCGCCGAGGACCTCCTCCAGGGAY
44806	P	G	A	ATGACGTGGCAGACGCCTCCTCCAGGGY
44806	T	A	A	GGTGTCCCTGGAGGAGGTGACCAGGCTAGGTGGGCACTGGCCT
44806	T	G	A	GGTGTCCCTGGAGGAGGCGACCAGGCTAGGTGGGCACTGGCCT
44806	IS	[AG]		AGGAGTCTGGGAGGGTCACAGCCATGCCATATTCCAGGCCAGTGCCCACCTAGCCTGGTC[AG]CCTCCTCCAGGGACACCCAGTGCCTGGGCAGATAAGAGATGAGTTCCTCTGGCAGGTTTC
44807	I		A	CTGACAAATGTGATTATTGCTCAAATATTATCTCAAATCACGAGATACTAACT
44807	P	A	A	CGCGCCGAGGAAGCTTCAATTTTGTCCAAATAY
44807	P	C	A	ATGACGTGGCAGACCAGCTTCAATTTTGTCCAAAY
44807	T	A	A	TAAGTATTTGGACAAAATTGAAGCTTGTTAGTATCTCGTGATTTGAGATAATATTTGAGCAATAATCACATTTGTCAGTG
44807	T	C	A	TAAGTATTTGGACAAAATTGAAGCTGGTTAGTATCTCGTGATTTGAGATAATATTTGAGCAATAATCACATTTGTCAGTG
44807	IS	[AC]		CCATCACACTGACAAATGTGATTATTGCTCAAATATTATCTCAAATCACGAGATACTAAC[AC]AGCTTCAATTTTGTCCAAATACTTAAAAGTATCTGCTTTATACGGTCAGCATGAGATTTA
44809	I		S	CTGCGAGTTAGATTTGGACATGAGTCCTTCTGCTCTTT
44809	P	G	S	ATGACGTGGCAGACCCTTGAGTAATTGTGACAGAY
44809	P	T	S	CGCGCCGAGGACTTGAGTAATTGTGACAGACY
44809	T	G	S	CAAAGTCTGTCACAATTACTCAAGGAAGAGCAGAAGGACTCATGTCCAAATCTAACTCGCAGTC
44809	T	T	S	CAAAGTCTGTCACAATTACTCAAGTAAGAGCAGAAGGACTCATGTCCAAATCTAACTCGCAGTC
44809	IS	[GT]		TAGACAGGAAAACAAGGACAAGTGAAGTGGCTGTCCCAAAGTCTGTCACAATTACTCAAG[GT]AAGAGCAGAAGGACTCATGTCCAAATCTAACTCGCAGTCCAGTCTTCCAGTTACGTCATC
44810	I		S	. TGATGACGTAACTGGAAGACTGGACTGCGAGTTAGATC
44810	P	A	S	CGCGCCGAGGTTGGACATGAGTCCTTCTY
44810	P	T	S	ATGACGTGGCAGACATGGACATGAGTCCTTCTY
44810	T	A	S	GAGCAGAAGGACTCATGTCCAAATCTAACTCGCAGTCCAGTCTTCCAGTTACGTCATCACC
44810	T	T	S	GAGCAGAAGGACTCATGTCCATATCTAACTCGCAGTCCAGTCTTCCAGTTACGTCATCACC
44810	IS	[AT]		AAGTGGCTGTCCCAAAGTCTGTCACAATTACTCAAGTAAGAGCAGAAGGACTCATGTCCA[AT]ATCTAACTCGCAGTCCAGTCTTCCAGTTACGTCATCACCTCCCTCCTTTCCAGGTTTTCT
44817	I		A	TGTGTGTGTGTGTGTGTGTGTGTGTGTGTGC
44817	P	T	A	CGCGCCGAGGTGAGACACAGAAAGAGAGAY
44817	P	A	A	ATGACGTGGCAGACAGAGACACAGAAAGAGAGAGY
44817	T	T	A	TTCTCTCTCTCTTTCTGTGTCTCACACACACACACACACACACACACACACACA
44817	T	A	A	TTCTCTCTCTCTTTCTGTGTCTCTCACACACACACACACACACACACACACACA
44817	IS	[TA]		TGAGTGAAAGCATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTG[TA]GAGACACAGAAAGAGAGAGAGAAAGAGAGATAAAGAGAGAGTGAGAGATACAAAAACT AG
44820	I		S	GCCAGTGCAGAAGGCCATTGAGGGCT
44820	P	C	S	ATGACGTGGCAGACGGTGGGAGTGGGTATGY
44820	P	T	S	CGCGCCGAGGAGTGGGAGTGGGTATGY
44820	T	C	S	ATCCCATACCCACTCCCACCGCCCTCAATGGCCTTCTGCACTGGCTG
44820	T	T	S	ATCCCATACCCACTCCCACTGCCCTCAATGGCCTTCTGCACTGGCTG
44820	IS	[CT]		GACTCAGAAGGGCACAGGTGGGGCTCGAATTCAGGGCTGCAATCCCATACCCACTCCCAC[CT]GCCCTCAATGGCCTTCTGCACTGGCTGTCTGCATGCTCGTCTCCGTTGGCCCCTCCCTCA
44824	I		S	GGGAGAGGTGGAGTTTCAGCTAATCCTTGGAACAT
44824	P	T	S	CGCGCCGAGGAACATAATTGGGATAAAGGAATAAGY
44824	P	C	S	ATGACGTGGCAGACGACATAATTGGGATAAAGGAATAAGY
44824	T	T	S	CTCCCTTATTCCTTTATCCCAATTATGTTTGTTCCAAGGATTAGCTGAAACTCCACCTCTCCCAA
44824	T	C	S	CTCCCTTATTCCTTTATCCCAATTATGTCTGTTCCAAGGATTAGCTGAAACTCCACCTCTCCCAA
44824	IS	[TC]		TGCTTGTGCTCTCACTCCCACCCACAATATATCTCCCTTATTCCTTTATCCCAATTATGT[TC]TGTTCCAAGGATTAGCTGAAACTCCACCTCTCCCAAGATGCCCTCCACAACCGCTACAAC
44825	I		S	GTTTCCAGTTGAAAATGTTAGTCAGGAGAGAGCATATCTTAAATCT
44825	P	T	S	CGCGCCGAGGACATATACTCTCAGACTAAGACTY
44825	P	C	S	ATGACGTGGCAGACGCATATACTCTCAGACTAAGACY
44825	T	T	S	GTTGAGTCTTAGTCTGAGAGTATATGTGATTTAAGATATGCTCTCTCCTGACTAACATTTTCAACTGGAAACCT
44825	T	C	S	GTTGAGTCTTAGTCTGAGAGTATATGCGATTTAAGATATGCTCTCTCCTGACTAACATTTTCAACTGGAAACCT
44825	IS	[TC]		CTCACCAAAATTGAACCTGTTTATCTTTTTGGAAGTTGAGTCTTAGTCTGAGAGTATATG[TC]GATTTAAGATATGCTCTCTCCTGACTAACATTTTCAACTGGAAACCTAACTAATAGTTCT
44827	I		S	GGACACTTTGTGTCCCTAGCTTTGAATCTGATTATTTGTATATTCCAAAAAACACT
44827	P	G	S	CGCGCCGAGGCTAGACCCCTGGATTTTTCY
44827	P	C	S	ATGACGTGGCAGACGTAGACCCCTGGATTTTTCY
44827	T	G	S	TGTGGAAAAATCCAGGGGTCTAGGTGTTTTTTGGAATATACAAAATAATCAGATTCAAAGCTAGGGACACAAAGTGTCCTG
44827	T	C	S	TGTGGAAAAATCCAGGGGTCTACGTGTTTTTTGGAATATACAAAATAATCAGATTCAAAGCTAGGGACACAAAGTGTCCTG

FIGURE 129F

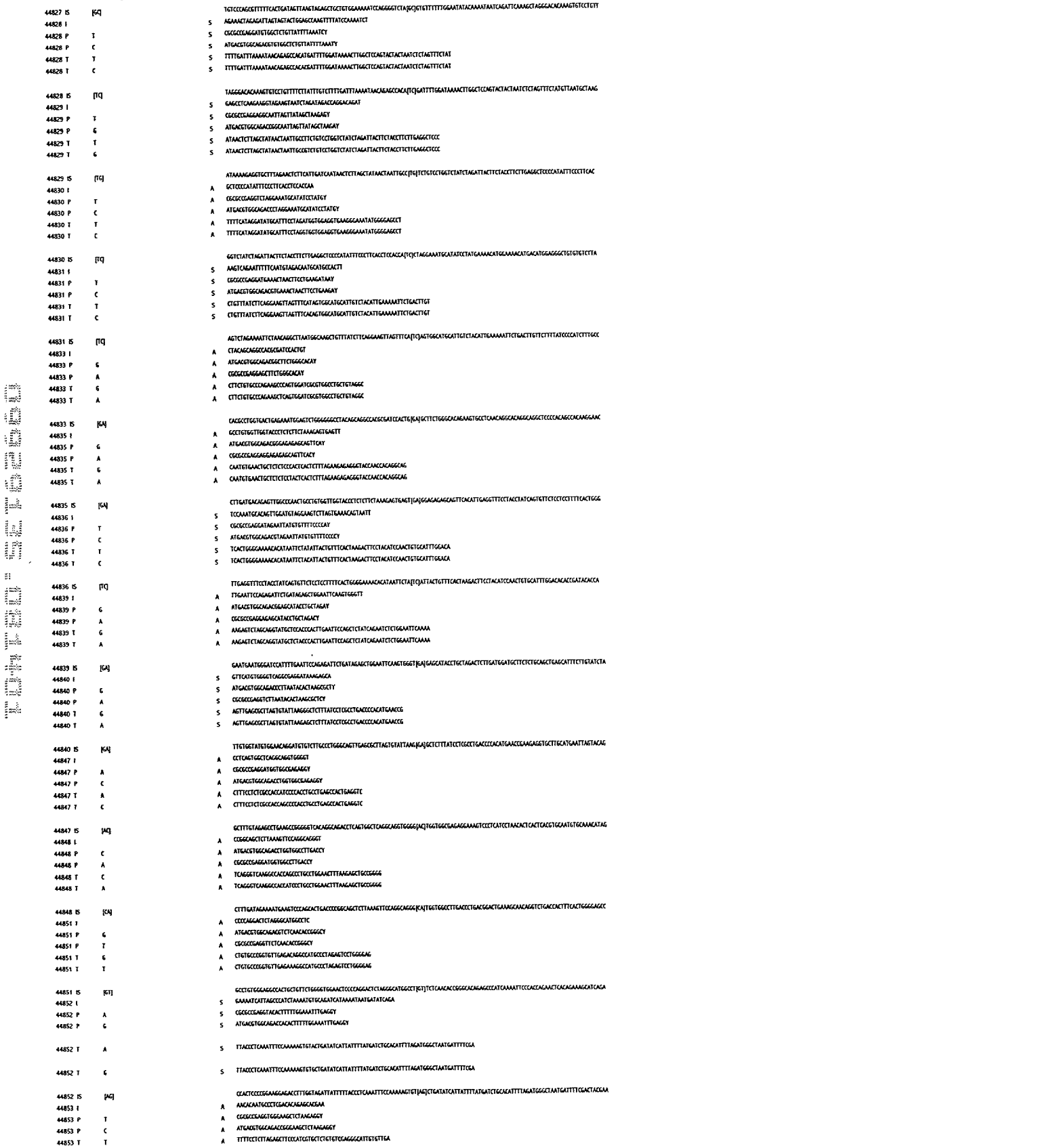

44827 IS [GC] TGTCCCAGCGTTTTTCACTGATAGTTAAGTAGAGCTGCTGTGGAAAAATCCAGGGGTCTA[GC]GTGTTTTTGGAATATACAAAATAATCAGATTCAAAGCTAGGGACACAAAGTGTCCTGTT
44828 I S AGAAACTAGAGATTAGTAGTACTGGAGCCAAGTTTTATCCAAAATCT
44828 P T S CGCGCCCAGGATGTGGCTCTGTTATTTTAAATCY
44828 P C S ATGACGTGGCAGACGTGTGGCTCTGTTATTTTAAATY
44828 T T S TTTTGATTTAAAATAACAGAGCCACATGATTTTGGATAAAACTTGGCTCCAGTACTACTAATCTCTAGTTTCTAT
44828 T C S TTTTGATTTAAAATAACAGAGCCACACATTTTGGATAAAACTTGGCTCCAGTACTACTAATCTCTAGTTTCTAT
44828 IS [TC] TAGGGACACAAAGTGTCCTGTTTTCTTATTTGTCTTTGATTTAAAATAACAGAGCCACA[TC]GATTTTGGATAAAACTTGGCTCCAGTACTACTAATCTCTAGTTTCTATGTTAATGCTAAG
44829 I S GAGCCTCAAGAAGGTAGAAGTAATCTAGATAGACCAGGACAGAT
44829 P T S CGCGCCCAGGAGGCAATTAGTTATAGCTAAGAGY
44829 P G S ATGACGTGGCAGACGGGCAATTAGTTATAGCTAAGAY
44829 T T S ATAACTCTTAGCTATAACTAATTGCCTTCTGTCCTGGTCTATCTAGATTACTTCTACCTTCTTGAGGCTCCC
44829 T G S ATAACTCTTAGCTATAACTAATTGCCGTCTGTCCTGGTCTATCTAGATTACTTCTACCTTCTTGAGGCTCCC
44829 IS [TG] ATAAAAGAGGTGCTTTAGAACTCTTCATTGATCAATAACTCTTAGCTATAACTAATTGCC[TG]TCTGTCCTGGTCTATCTAGATTACTTCTACCTTCTTGAGGCTCCCCATATTTCCCTTCAC
44830 I A GCTCCCCATATTTCCCTTCACCTCCACCAA
44830 P T A CGCGCCGAGGTCTAGGAAATGCATATCCTATGY
44830 P C A ATGACGTGGCAGACCCTAGGAAATGCATATCCTATGY
44830 T T A TTTTCATAGGATATGCATTTCCTAGGTGGTGGAGGTGAAGGGAAATATGGGGAGCCT
44830 T C A TTTTCATAGGATATGCATTTCCTAGGTGGTGGAGGTGAAGGGAAATATGGGGAGCCT
44830 IS [TC] GGTCTATCTAGATTACTTCTACCTTCTTGAGGCTCCCCATATTTCCCTTCACCTCCACCA[TC]CTAGGAAATGCATATCCTATGAAAACATGCAAAACATGACATGGAGGGCTGTGTGTCTTA
44831 I S AAGTCAGAATTTTTCAATGTAGAACAATGCATGCCACTT
44831 P T S CGCGCCCAGGATGAAACTAACTTCCTGAAGATAAY
44831 P C S ATGACGTGGCAGACGTGAAACTAACTTCCTGAAGAY
44831 T T S CTGTTTATCTTCAGGAAGTTAGTTTCATAGTGGCATGCATTGTCTACATTGAAAAATTCTGACTTGT
44831 T C S CTGTTTATCTTCAGGAAGTTAGTTTCACAGTGGCATGCATTGTCTACATTGAAAAATTCTGACTTGT
44831 IS [TC] AGTCTAGAAAATTCTAACAGGCTTAATGGCAAGCTGTTTATCTTCAGGAAGTTAGTTTCA[TC]AGTGGCATGCATTGTCTACATTGAAAAATTCTGACTTGTTCTTTATCCCCATCTTTGCC
44833 I A CTACAGCAGGCCACGCGATCCACTGT
44833 P G A ATGACGTGGCAGACGGCTTCTGGGCCACAY
44833 P A A CGCGCCGAGGAGCTTCTGGGCACAY
44833 T G A CTTCTGTGCCCAGAAGCCCAGTGGATCGCGTGGCCTGCTGTAGGC
44833 T A A CTTCTGTGCCCAGAAGCTCAGTGGATCGCGTGGCCTGCTGTAGGC
44833 IS [GA] CACGCCTGGTGACTGAGAAATGGAGTCTGGGGGGCCTACAGCAGGCCACGCGATCCACTG[GA]GCTTCTGGGCACAGAAGTGCCTCAACAGGCACAGGCAGGCTCCCCACAGCCACAAGGAAC
44835 I A GCCTGTGGTTGGTACCCTCTCTTCTAAAGAGTGAGTT
44835 P G A ATGACGTGGCAGACGGCAGAGAGCAGTTCAY
44835 P A A CGCGCCCAGCAGGAGAGAGCAGTTCACY
44835 T G A CAATGTGAACTGCTCTCTCCCACTCACTCTTTAGAAGAGAGGGTACCAACCACAGGCAG
44835 T A A CAATGTGAACTGCTCTCTCCTACTCACTCTTTAGAAGAGAGGGTACCAACCACAGGCAG
44835 IS [GA] CTTGATGACAGAGTTGGCCCAACTGCCTGTGGTTGGTACCCTCTCTTCTAAAGAGTGAGT[GA]GGAGACAGCAGTTCACATTGAGGTTTCCTACCTATCAGTGTTCTCCTCCTTTTCACTGGG
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44836 P T S CGCGCCCAGGATAGAATTATGTGTTTTCCCCAY
44836 P C S ATGACGTGGCAGACGTAGAATTATGTGTTTTCCCCY
44836 T T S TCACTGGGGAAAACACATAATTCTATATTACTGTTTCACTAAGACTTCCTACATCCAACTGTGCATTTGGACA
44836 T C S TCACTGGGGAAAACACATAATTCTACATTACTGTTTCACTAAGACTTCCTACATCCAACTGTGCATTTGGACA
44836 IS [TC] TTGAGGTTTCCTACCTATCAGTGTTCTCCTCCTTTCACTGGGGAAAACACATAATTCTA[TC]ATTACTGTTTCACTAAGACTTCCTACATCCAACTGTGCATTTGGACACACCGATACACCA
44839 I A TTGAATTCCAGAGATTCTGATAGAGCTGGAATTCAAGTGGGTT
44839 P G A ATGACGTGGCAGACGGAGCATACCTGCTAGAY
44839 P A A CGCGCCGAGGAGAGCATACCTGCTAGACY
44839 T G A AAGAGTCTAGCAGGTATGCTCCACCCACTTGAATTCCAGCTCTATCAGAATCTCTGGAATTCAAAA
44839 T A A AAGAGTCTAGCAGGTATGCTCTACCCACTTGAATTCCAGCTCTATCAGAATCTCTGGAATTCAAAA
44839 IS [GA] GAATGAATGGGATCCATTTTGAATTCCAGAGATTCTGATAGAGCTGGAATTCAAGTGGGT[GA]GAGCATACCTGCTAGACTCTTGATGGATGCTTCTCTGCAGCTGAGCATTTCTTGTATCTA
44840 I S GTTCATGTGGGGTCAGGCGAGGATAAAGAGCA
44840 P G S ATGACGTGGCAGACCCTTAATACACTAAGCGCTY
44840 P A S CGCGCCGAGGTCTTAATACACTAAGCGCTCY
44840 T G S AGTTGAGCGCTTAGTGTATTAAGAGCTCTTTATCCTCGCCTGACCCCACATGAACCG
44840 T A S AGTTGAGCGCTTAGTGTATTAAGAGCTCTTTATCCTCGCCTGACCCCACATGAACCG
44840 IS [GA] TTGTGGTATGTGGAACAGGATGTGTCTTGCCCTGGGCAGTTGAGCGCTTAGTGTATTAAG[GA]GCTCTTTATCCTCGCCTGACCCCACATGAACCGAAGAGGTGCTTGCATGAATTAGTACAG
44847 I A CCTCAGTGGCTCAGGCAGGTGGGGT
44847 P A A CGCGCCGAGGATGGTGGCGAGAGGY
44847 P C A ATGACGTGGCAGACCTGGTGGCGAGAGGY
44847 T A A CTTTCCTCTCGCCACCATCCCCACCTGCCTGAGCCACTGAGGTC
44847 T C A CTTTCCTCTCGCCACCAGCCCCACCTGCCTGAGCCACTGAGGTC
44847 IS [AC] GCTTTGTAGAGCCTGAAGCCGGCGGGTCACAGGCAGACCTCAGTGGCTCAGGCAGGTGGGG[AC]TGGTGGCGAGAGGAAAGTCCCTCATCCTAACACTCACTCACGTGCAATGTGCAAACATAG
44848 I A CCGGCAGCTCTTAAAGTTCCAGGCAGGT
44848 P C A ATGACGTGGCAGACCTGGTGGCCTTGACCY
44848 P A A CGCGCCGAGGATGGTGGCCTTGACCY
44848 T C A TCAGGGTCAAGGCCACCAGCCCTGCCTGGAACTTTAAGAGCTGCCGGGG
44848 T A A TCAGGGTCAAGGCCACCATCCCTGCCTGGAACTTTAAGAGCTGCCGGGG
44848 IS [CA] CTTTGATAGAAAATCAAGTCCCAGCACTGACCCCGGCAGCTCTTAAAGTTCCAGGCAGGG[CA]TGGTGGCCTTGACCCTGACGGACTGAAAGCAACAGGTCTGACCACTTTCACTGGGGAGCC
44851 I A CCCCAGCACTCTAGGGCATGGCTC
44851 P G A ATGACGTGGCAGAGGTCTCAACACCGGGCY
44851 P T A CGCGCCGAGGTTCTCAACACCGGGCY
44851 T G A CTGTGCCCGGTGTTGAGACAGGCCATGCCCTAGAGTCCTGGGGAG
44851 T T A CTGTGCCCGGTGTTGAGAAAGGCCATGCCCTAGAGTCCTGGGGAG
44851 IS [GT] GCCTGTGGGAGGCCACTGCTGTTCTGGGGTGGAACTCCCCAGGACTCTAGGGCATGGCCT[GT]TCTCAACACCGGGCACAGAGCCCATCAAAATTCCCACCAGAACTCACAGAAAGCATCAGA
44852 I S GAAAATCATTAGCCCATCTAAAATGTGCAGATCATAAAATAATGATATCAGA
44852 P A S CGCGCCGAGGTACACTTTTTGGAAATTTGAGGY
44852 P G S ATGACGTGGCAGACCACACTTTTTGGAAATTTGAGGY
44852 T A S TTACCCTCAAATTTCCAAAAAGTGTACTGATATCATTATTTTATGATCTGCACATTTTAGATGGGCTAATGATTTTCGA
44852 T G S TTACCCTCAAATTTCCAAAAAGTGTGCTGATATCATTATTTTATGATCTGCACATTTTAGATGGGCTAATGATTTTCGA
44852 IS [AG] CCACTCCCCGGAAGGAGACCTTGGTAGATTATTTTTACCCTCAAATTTCCAAAAAGTGT[AG]CTGATATCATTATTTTATGATCTGCACATTTTAGATGGGCTAATGATTTTCGACTACGAA
44853 I A AACACAATGCCCTCGACACAGAGCACGAA
44853 P T A CGCGCCCAGGTGGGAAGCTCTAACAGGY
44853 P C A ATGACGTGGCAGACCGGGAAGCTCTAACAGGY
44853 T T A TTTTCCTCTTAGAGCTTCCCATCGTGCTCTGTGTGCCAGGGCATTGTGTTGA

FIGURE 129F

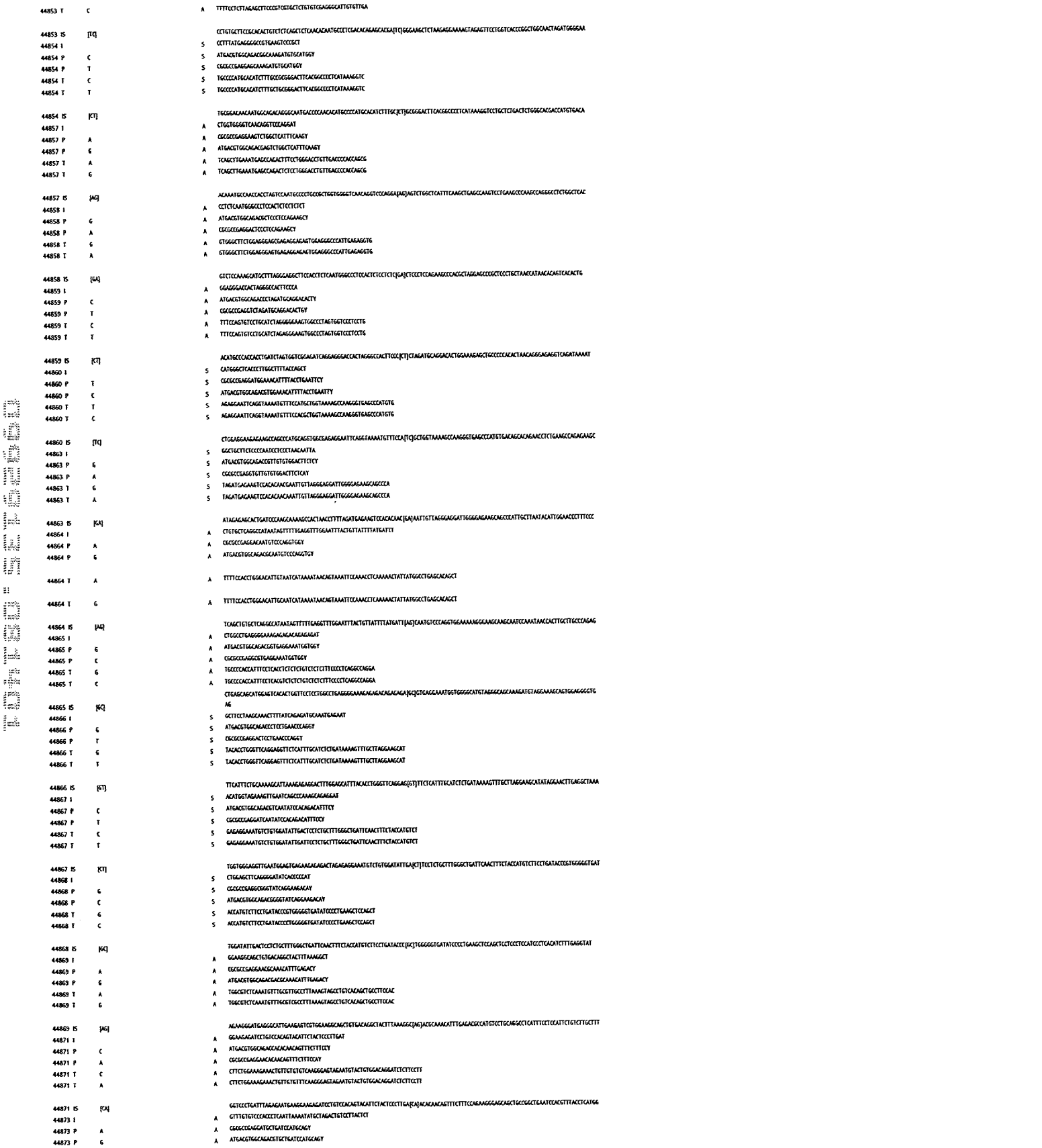


FIGURE 129F

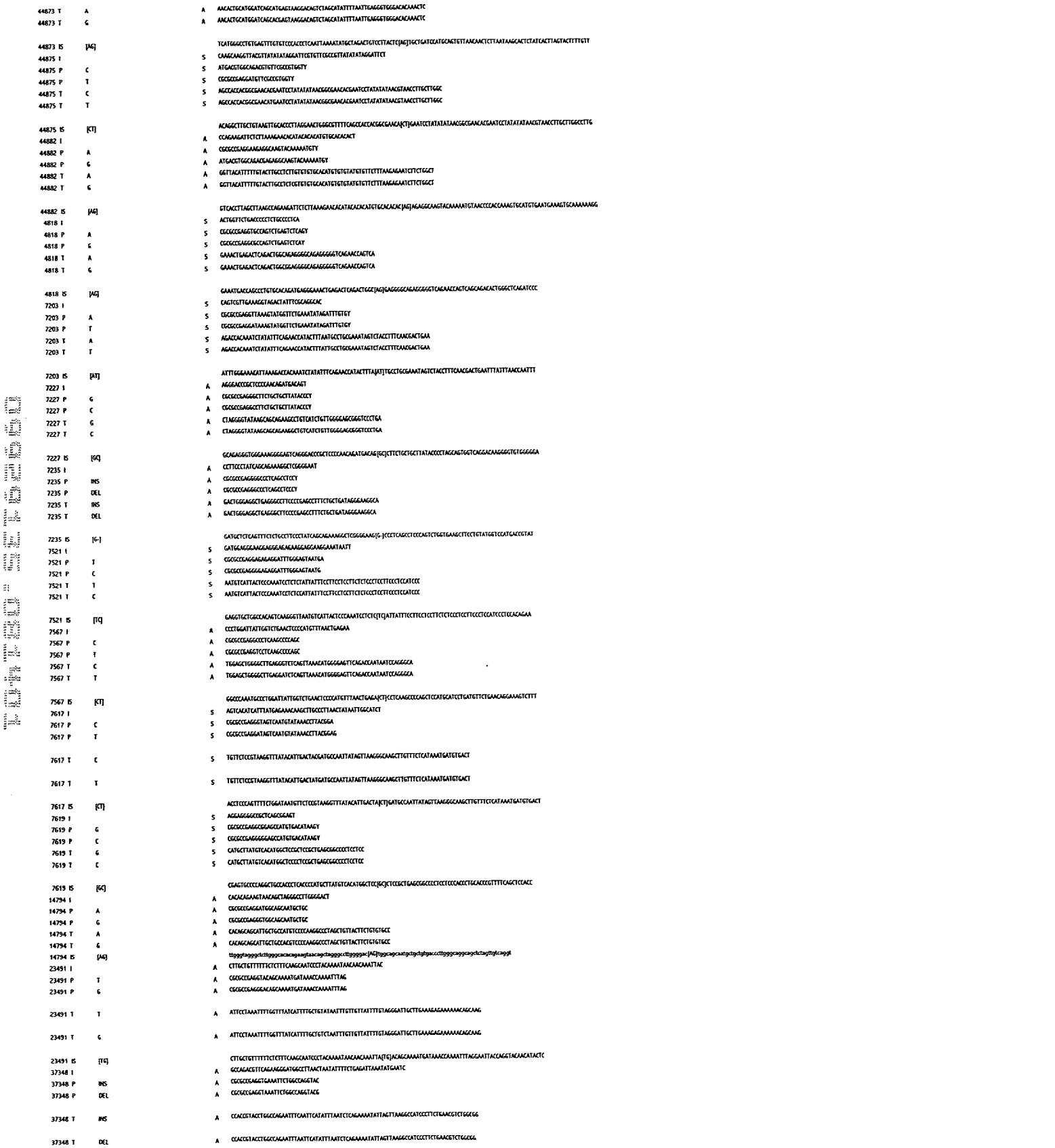


FIGURE 129F

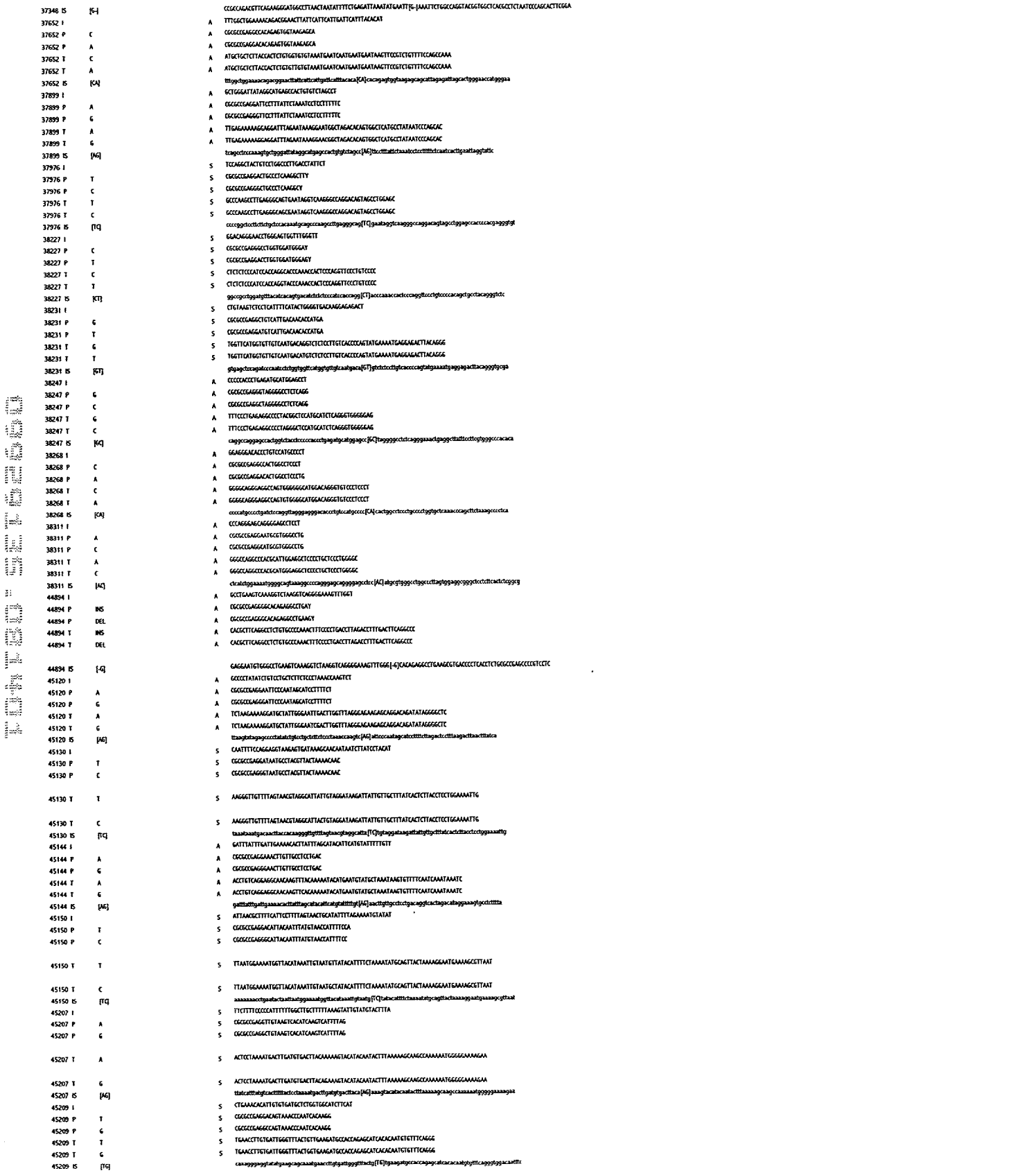

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37652 T C
37652 T A
37652 IS [CA]
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37899 P A
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37976 I
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37976 P C
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37976 T C
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38227 I
38227 P C
38227 P T
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38227 T T
38227 IS [CT]
38231 I
38231 P G
38231 P T
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38247 T C
38247 IS [GC]
38268 I
38268 P C
38268 P A
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38268 T A
38268 IS [CA]
38311 I
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FIGURE 129F

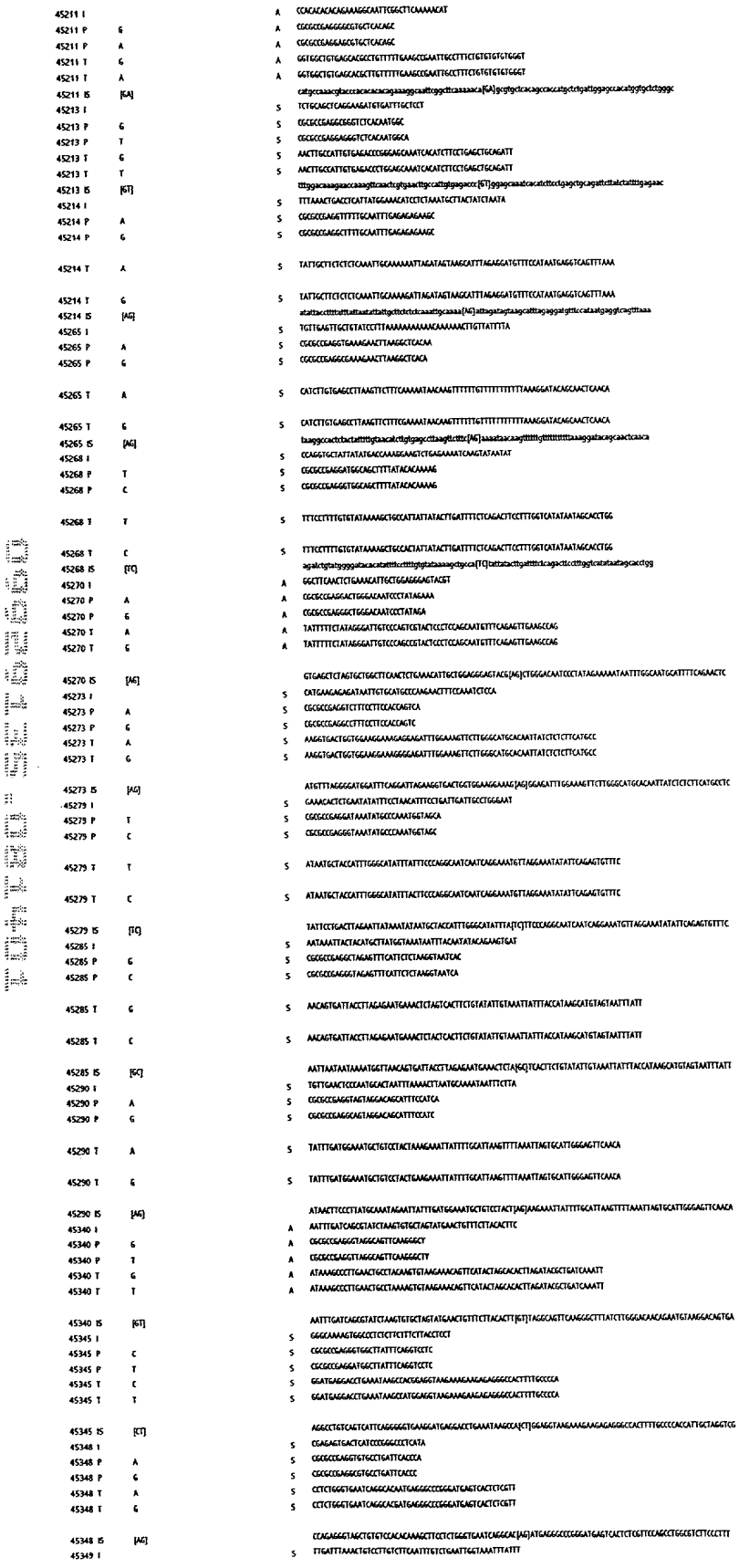

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45211 P G A CGGCCCGAGGGGCGTGCTCACAGC
45211 P A A CGCGCCGAGGAGCGTGCTCACAGC
45211 T G A GGTGGCTGTGAGCACGCCTGTTTTTGAAGCCGAATTGCCTTTCTGTGTGTGTGGGT
45211 T A A GGTGGCTGTGAGCACGCTTGTTTTTGAAGCCGAATTGCCTTTCTGTGTGTGTGGGT
45211 IS [GA] catgccaaacgtacccacacacacacagaaaggcaattcggctttcaaaaaca[GA]gcgtgctcacagccaccatgctctgattggagccacatggtgctctgggc
45213 I S TCTGCAGCTCAGGAAGATGTGTGATTTGCTCCT
45213 P G S CGCGCCGAGGCGGGTCTCACAATGGC
45213 P T S CGCGCCGAGGAGGGTCTCACAATGGCA
45213 T G S AACTTGCCATTGTGAGACCCGGGAGCAAATCACATCTTCCTGAGCTGCAGATT
45213 T T S AACTTGCCATTGTGAGACCCTGGAGCAAATCACATCTTCCTGAGCTGCAGATT
45213 IS [GT] tttggacaaagaaccaaagttcaactcgtgaacttgccattgtgagaccc[GT]ggagcaaatcacatcttcctgagctgcagattctatctatttgagaac
45214 I S TTTAAACTGACCTCATTATGCAAACATCCTCTAAATGCTTACTATCTAATA
45214 P A S CGCGCCGAGTTTTTGCAATTTGAGAGAGAAGC
45214 P G S CGCGCCGAGGCTTTTGCAATTTGAGAGAGAAGC
45214 T A S TATTGCTTCTCTCTCAAATTGCAAAAAATTAGATAGTAAGCATTTAGAGGATGTTTCCATAATGAGGTCAGTTTAAA
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45214 IS [AG] atattaccttttatttaattatatttattgcttctctctcaaattgccaaaa[AG]attagatagtaagcatttagaggatgtttccataatgaggtcagtttaaa
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45265 T G S CATCTTGTGAGCCTTAAGTTCTTTCGAAAATAACAAGTTTTTTGTTTTTTTTTTAAAGGATACAGCAACTCAACA
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45268 P C S CGCGCCGAGGGTGGCAGCTTTTATACACAAAAG
45268 T T S TTTCCTTTTGTGTATAAAAGCTGCCATTATTATACTTGATTTTCTCAGACTTCCTTTGGTCATATAATAGCACCTGG
45268 T C S TTTCCTTTTGTGTATAAAAGCTGCCACTATTATACTTGATTTTCTCAGACTTCCTTTGGTCATATAATAGCACCTGG
45268 IS [TC] agatctgtatgggatacacatatttttcctttgtgtataaaagctgccat[TC]attatacttgattttctcagacttccttggtcatataatagcacctgg
45270 I A GGCTTCAACTCTGAAACATTGCTGGAGGGAGTACGT
45270 P A A CGCGCCGAGGACTGGGACAATCCCTATAGAAA
45270 P G A CGCGCCGAGGGCTGGGACAATCCCTATAGA
45270 T A A TATTTTTCTATAGGGATTGTCCCAGTCGTACTCCCTCCAGCAATGTTTCAGAGTTGAAGCCAG
45270 T G A TATTTTTCTATAGGGATTGTCCCAGCCGTACTCCCTCCAGCAATGTTTCAGAGTTGAAGCCAG
45270 IS [AG] GTGAGCTCTAGTGCTGGCTTCAACTCTGAAACATTGCTGGAGGGAGTACG[AG]CTGGGACAATCCCTATAGAAAAATAATTTGGCAATGCATTTTCAGAACTC
45273 I S CKTGAAGAGACAATAATTGTGCATGCCCAAGAACTTTCCAAATCTCCA
45273 P A S CGCGCCGAGGTCTTTCCTTCCACCAGTCA
45273 P G S CGCGCCGAGGCCTTTCCTTCCACCAGTC
45273 T A S AAGGTGACTGGTGGAAGGAAAGAGGAGATTTGGAAAGTTCTTGGGCATGCACAATTATCTCTCTTCATGCC
45273 T G S AAGGTGACTGGTGGAAGGAAAGGGGAGATTTGGAAAGTTCTTGGGCATGCACAATTATCTCTCTTCATGCC
45273 IS [AG] ATGTTTAGGGGATGGATTTCAGGATTAGAAGGTGACTGGTGGAAGGAAAG[AG]GGAGATTTGGAAAGTTCTTGGGCATGCACAATTATCTCTCTTCATGCCTC
45279 I S GAAACACTCTGAATATATTTCCTAACATTTCCTGATTGATTGCCTGGGAAT
45279 P T S CGCGCCGAGGATAAATATGCCCAAATGGTAGCA
45279 P C S CGCGCCGAGGGTAAATATGCCCAAATGGTAGC
45279 T T S ATAATGCTACCATTTGGGCATATTTATTTCCCAGGCAATCAATCAGGAAATGTTAGGAAATATATTCAGAGTGTTTC
45279 T C S ATAATGCTACCATTTGGGCATATTTACTTCCCAGGCAATCAATCAGGAAATGTTAGGAAATATATTCAGAGTGTTTC
45279 IS [TC] TATTCCTGACTTAGAATTATAAATATAATGCTACCATTTGGGCATATTTAJTC]TTCCCAGGCAATCAATCAGGAAATGTTAGGAAATATATTCAGAGTGTTTC
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45285 P G S CGCGCCGAGGCTAGAGTTTCATTCTCTAAGGTAATCAC
45285 P C S CGCGCCGAGGGTAGAGTTTCATTCTCTAAGGTAATCA
45285 T G S AACAGTGATTACCTTAGAGAATGAAACTCTAGTCACTTCTGTATATTGTAAATTATTTACCATAAGCATGTAGTAATTTATT
45285 T C S AACAGTGATTACCTTAGAGAATGAAACTCTACTCACTTCTGTATATTGTAAATTATTTACCATAAGCATGTAGTAATTTATT
45285 IS [GC] AATTAATAATAAAATGGTTAACAGTGATTACCTTAGAGAATGAAACTCTA[GC]TCACTTCTGTATATTGTAAATTATTTACCATAAGCATGTAGTAATTTATT
45290 I S TGTTGAACTCCCAATGCACTAATTTAAAACTTAATGCAAAATAATTTCTTA
45290 P A S CGCGCCGAGGTAGTAGGACAGCATTTCCATCA
45290 P G S CGCGCCGAGGCAGTAGGACAGCATTTCCATC
45290 T A S TATTTGATGGAAATGCTGTCCTACTAAAGAAATTATTTTGCATTAAGTTTTAAATTAGTGCATTGGGAGTTCAACA
45290 T G S TATTTGATGGAAATGCTGTCCTACTGAAGAAATTATTTTGCATTAAGTTTTAAATTAGTGCATTGGGAGTTCAACA
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45340 I A AATTTGATCAGCGTATCTAAGTGTGCTAGTATGAACTGTTTCTTACACTTC
45340 P G A CGCGCCGAGGGTAGGCAGTTCAAGGGCY
45340 P T A CGCGCCGAGGTTAGGCAGTTCAAGGGCTY
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45340 IS [GT] AATTTGATCAGCGTATCTAAGTGTGCTAGTATGAACTGTTTCTTACACTT[GT]TAGGCAGTTCAAGGGCTTTATCTTGGGACAACAGAATGTAAGGACAGTGA
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45348 P G S CGCGCCGAGGCGTGCCTGATTCACCC
45348 T A S CCTCTGGGTGAATCAGGCACAATGAGGGCCCGGGATGAGTCACTCTCGTT
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FIGURE 129F

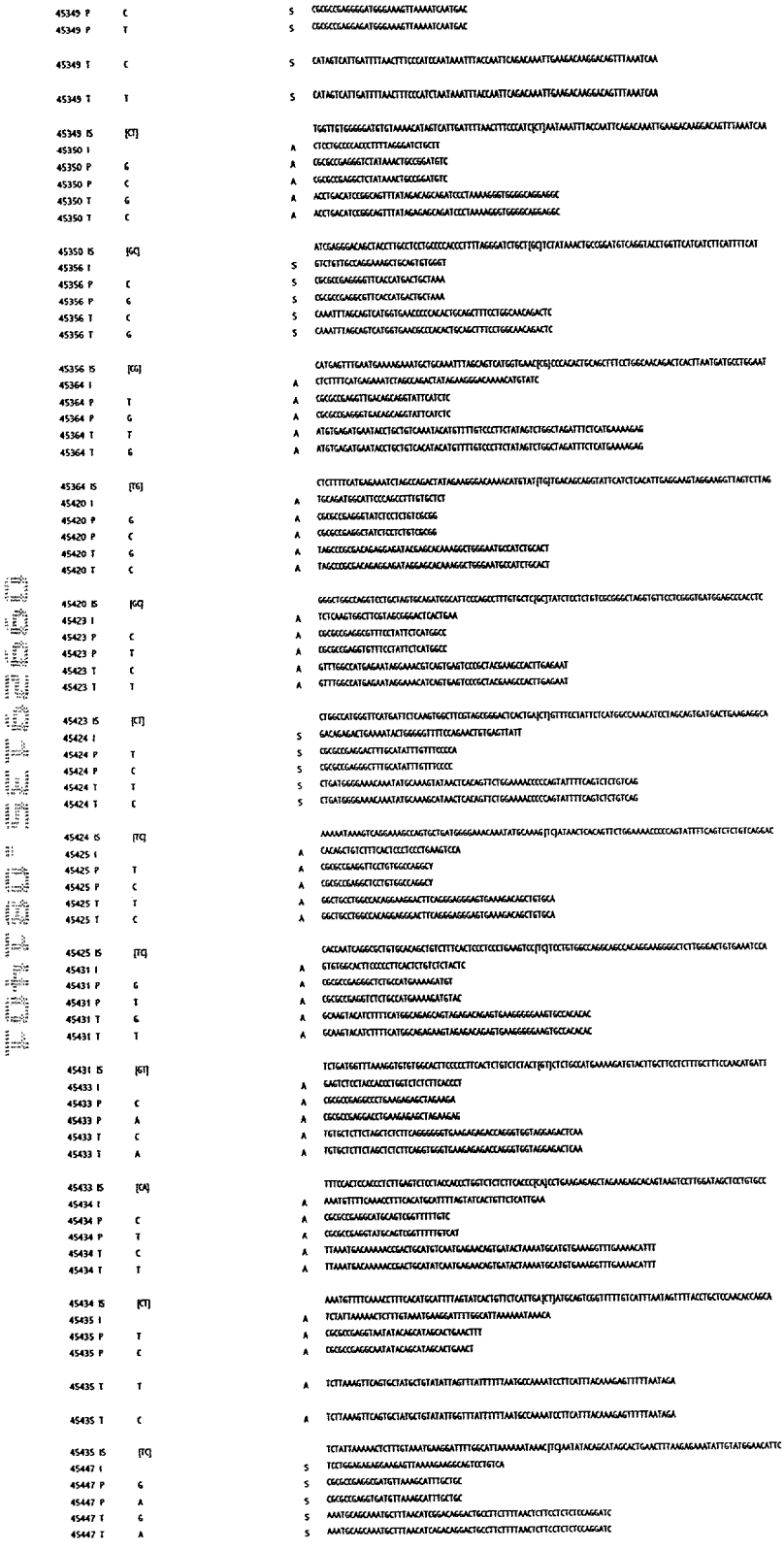

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45420 T G A TAGCCGGCGAACAGAGGAGATAGGAGCACAAAGGCTGGGAATGCCATCTGCACT
45420 T C A TAGCCGGCGAACAGAGGAGATAGGAGCACAAAGGCTGGGAATGCCATCTGCACT
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45423 P T A CGCGCCGAGGTGTTTCCTATTCTCATGGCC
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45431 P T A CGCGCCGAGGTCTCTGCCATGAAAAGATGTAC
45431 T G A GCAAGTACATCTTTTCATGGCAGAGCAGTAGAGACAGAGTGAAGGGGGAAGTGCCACACAC
45431 T T A GCAAGTACATCTTTTCATGGCAGAGAAGTAGAGACAGAGTGAAGGGGGAAGTGCCACACAC
45431 IS [GT] TCTGATGGTTTAAAGGTGTGTGGCACTTCCCCCTTCACTCTGTCTCTACT[GT]CTCTGCCATGAAAAGATGTACTTGCTTCCTCTTTGCTTTCCAACATGATT
45433 I A GAGTCTCCTACCACCCTGGTCTCTCTTCACCCT
45433 P C A CGCGCCGAGGCCCTGAAGAGAGCTAGAAGA
45433 P A A CGCGCCGAGGACCTGAAGAGAGCTAGAAGA
45433 T C A TGTGCTCTTCTAGCTCTCTTCAGGGGGGTGAAGAGAGACCAGGGTGGTAGGAGACTCAA
45433 T A A TGTGCTCTTCTAGCTCTCTTCAGGTGGGTGAAGAGAGACCAGGGTGGTAGGAGACTCAA
45433 IS [CA] TTTCCACTCCACCCTCTTGAGTCTCCTACCACCCTGGTCTCTCTTCACCC[CA]CCTGAAGAGAGCTAGAAGAGCACAGTAAGTCCTTGGATAGCTCCTGTGCC
45434 I A AAATGTTTTCAAACCTTTCACATGCATTTTAGTATCACTGTTCTCATTGAA
45434 P C A CGCGCCGAGGCATGCAGTCGGTTTTTGTC
45434 P T A CGCGCCGAGGTATGCAGTCGGTTTTTGTCAT
45434 T C A TTAAATGACAAAAACCGACTGCATGTCAATGAGAACAGTGATACTAAAATGCATGTGAAAGGTTTGAAAACATTT
45434 T T A TTAAATGACAAAAACCGACTGCATATCAATGAGAACAGTGATACTAAAATGCATGTGAAAGGTTTGAAAACATTT
45434 IS [CT] AAATGTTTTCAAACCTTTCACATGCATTTTAGTATCACTGTTCTCATTGA[CT]ATGCAGTGGGTTTTTGTCATTTAATAGTTTTACCTGCTCCAACACCAGCA
45435 I A TCTATTAAAAACTCTTTGTAAATGAAGGATTTTGGCATTAAAAAATAAAC
45435 P T A CGCGCCCAGGTAATATACAGCATAGCACTGAACTTT
45435 P C A CGCGCCCAGGCAATATACAGCATAGCACTGAACT
45435 T T A TCTTAAAGTTCAGTGCTATGCTGTATATTAGTTTATTTTTTAATGCCAAAATCCTTCATTTACAAAGAGTTTTTAATAGA
45435 T C A TCTTAAAGTTCAGTGCTATGCTGTATATTGGTTTATTTTTTAATGCCAAAATCCTTCATTTACAAAGAGTTTTTAATAGA
45435 IS [TC] TCTATTAAAAACTCTTTGTAAATGAAGGATTTTGGCATTAAAAAATAAAC[TC]AATATACAGCATAGCACTGAACTTTAAGAGAAATATTGTATGGAACATTC
45447 I S TCCTGGAGAGAGCAAGAGTTAAAAGAAGGCAGTCCTGTCA
45447 P G S CGCGCCGAGGCGATGTTAAAGCATTTGCTGC
45447 P A S CGCGCCCAGGTGATGTTAAAGCATTTGCTGC
45447 T G S AAATGCAGCAAATGCTTTAACATCGGACAGGACTGCCTTCTTTTAACTCTTCCTCTCTCCAGGATC
45447 T A S AAATGCAGCAAATGCTTTAACATCAGACAGGACTGCCTTCTTTTAACTCTTCCTCTCTCCAGGATC
45447 IS [GA] TTAGTTTTTTGCCCCATGGAGCTTAAAAATGCAGCAAATGCTTTAACATC[GA]GACAGGACTGCCTTCTTTTAACTCTTCCTCTCTCCAGGATCTTGACTTCA
45461 I A AGGCCAGGGGAGCTCTGTAGATGGAGATTTTATCTCAAT
45461 P A A CGCGCCCAGGAAGCGATGGAAACCACTG
45461 P G A CGCGCCCAGGGAGCGATGGAAACCACTG
45461 T A A TCTCCAGTGGTTTCCATGGCTTTTGAGATAAAATCTCCATCTACAGAGCTCCCCTGGCCTGG
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FIGURE 129F

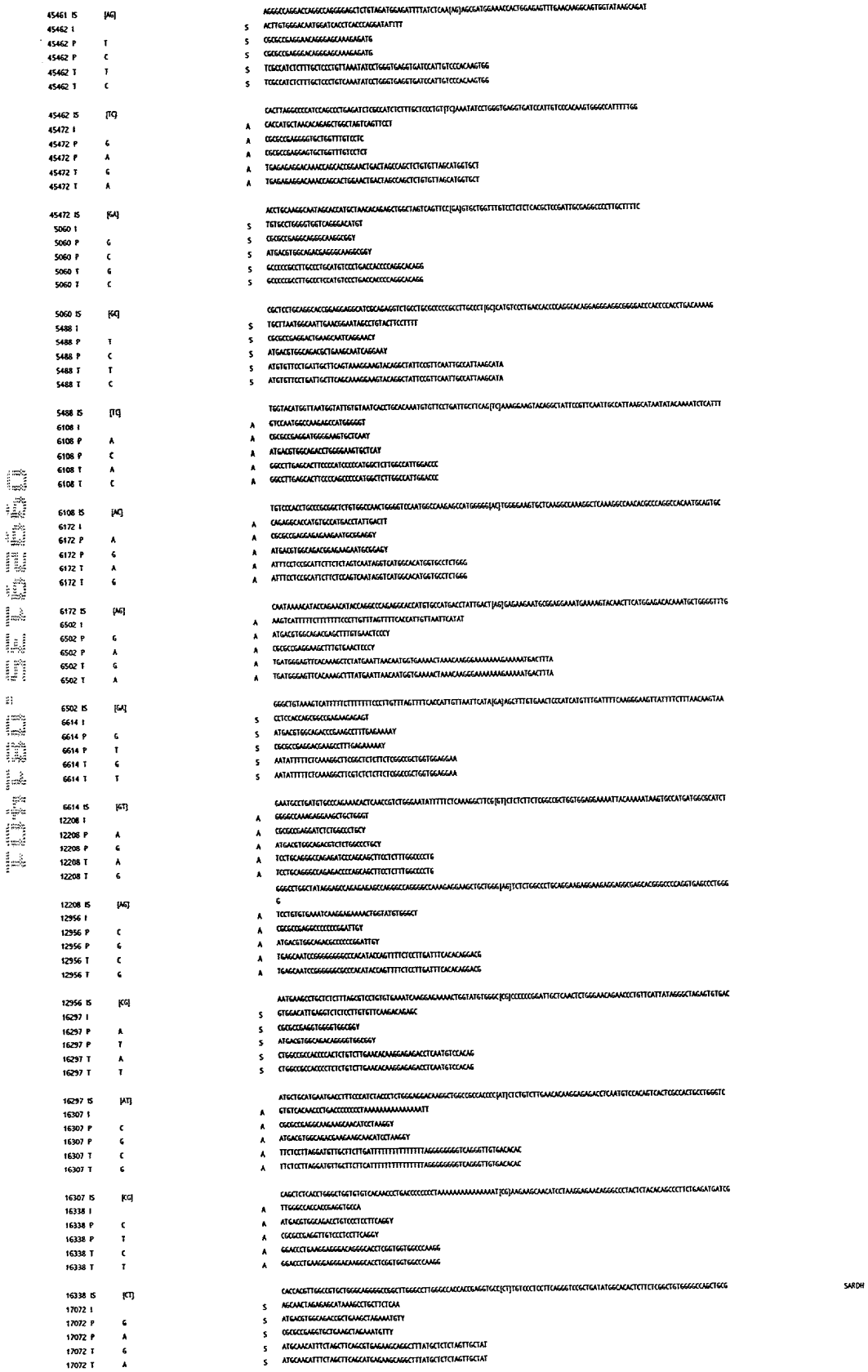


FIGURE 129F

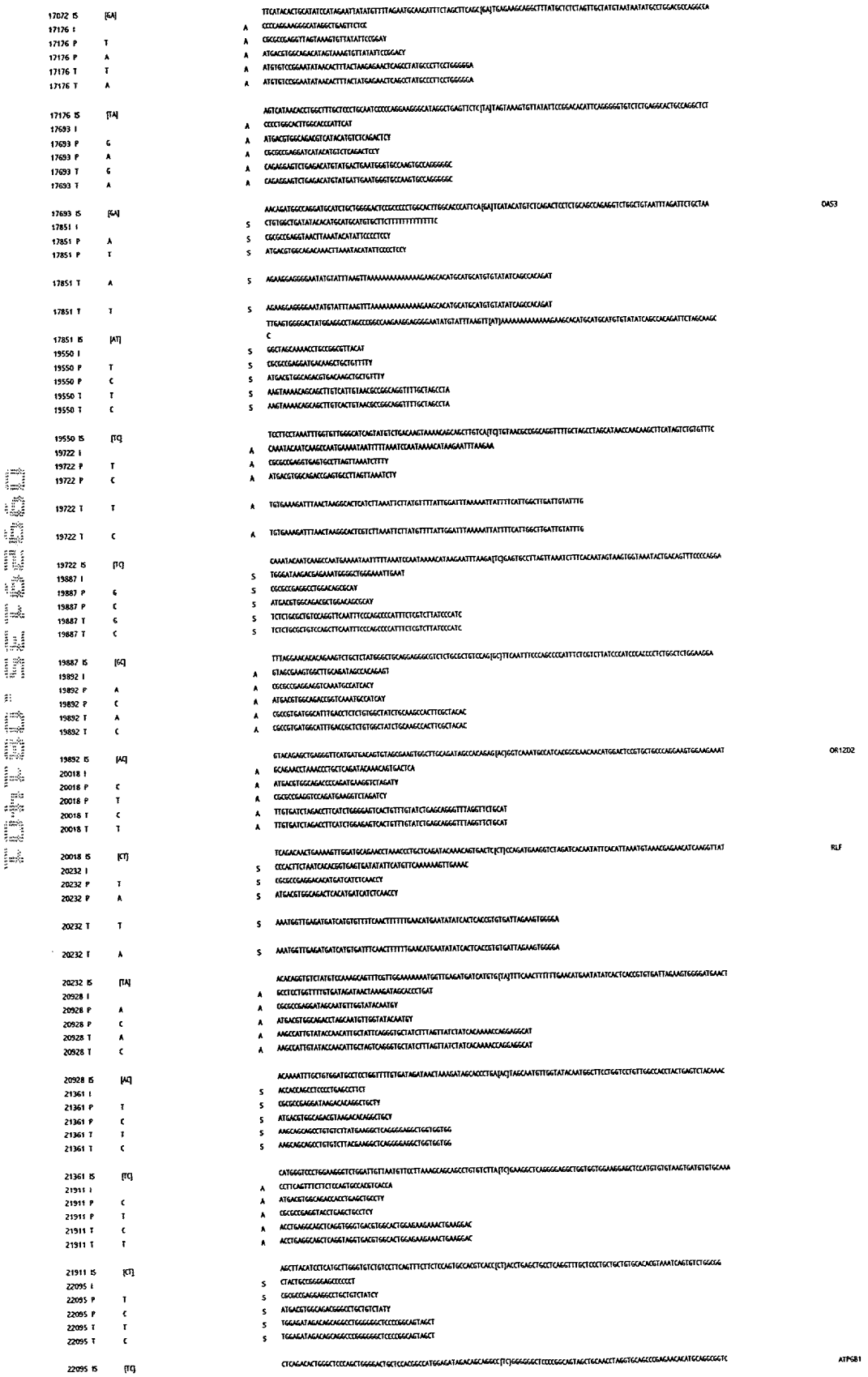

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17693 I A CCCCTGGCACTTGGCACCCATTCAT
17693 P G A ATGACGTGGCAGAGGTCATACATGTCTCAGACTCY
17693 P A A CGCGCCCAGGATCATACATGTCTCAGACTCCY
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19550 P T S CGCGCCGAGGATGACAAGCTGCTGTTTTY
19550 P C S ATGACGTGGCAGACGTGACAAGCTGCTGTTTY
19550 T T S AAGTAAAACAGCAGCTTGTCATTGTAACGCCGGCAGGTTTTGCTAGCCTA
19550 T C S AAGTAAAACAGCAGCTTGTCACTGTAACGCCGGCAGGTTTTGCTAGCCTA
19550 IS [TC] TCCTTCCTAAATTTGGTGTTGGGCATCAGTATGTCTGACAAGTAAAACAGCAGCTTGTCA[TC]TGTAACGCCGGCAGGTTTTGCTAGCCTAGCATAACCAACAAGCTTCATAGTCTGTGTTTC
19722 I A CAAATACAATCAAGCCAATGAAAATAATTTTTAAATCCAATAAAACATAAGAATTTAAGAA
19722 P T A CGCGCCGAGGTGAGTGCCTTAGTTAAATCTTTY
19722 P C A ATGACGTGGCAGACCGAGTGCCTTAGTTAAATCTY
19722 T T A TGTGAAAGATTTAACTAAGGCACTCATCTTAAATTCTTATGTTTTATTGGATTTAAAAATTATTTTCATTGGCTTGATTGTATTTG
19722 T C A TGTGAAAGATTTAACTAAGGCACTCGTCTTAAATTCTTATGTTTTATTGGATTTAAAAATTATTTTCATTGGCTTGATTGTATTTG
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19887 I S TGGGATAAGACGAGAAATGGGGCTGGGAAATTGAAT
19887 P G S CGCGCCGAGGCTGACAAGCGCAY
19887 P C S ATGACGTGGCAGACGCTGGACAGCGCAY
19887 T G S TCTCTGCGCTGTCCAGGTTCAATTTCCCAGCCCCATTTCTCGTCTTATCCCATC
19887 T C S TCTCTGCGCTGTCCAGCTTCAATTTCCCAGCCCCATTTCTCGTCTTATCCCATC
19887 IS [GC] TTTAGGAACACACAGAAGTCTGCTCTATGGGCTGCAGGAGGGGCTCTCTGCGCTGTCCAG[GC]TTCAATTTCCCAGCCCCATTTCTCGTCTTATCCCATCCCACCCCTCTGGCTCTGGAAGGA
19892 I A GTAGCGAAGTGGCTTGCAGATAGCCACAGAGT
19892 P A A CGCGCCGAGGAAGTCAAATGCCATCACY
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19892 T C A CGCCGTGATGGCATTTGACCGCTCTGTGGCTATCTGCAAGCCACTTCGCTACAC
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20018 P C A ATGACGTGGCAGACCCCAGATGAAGGTCTAGATY
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20018 IS [CT] TCAGACAACTGAAAAGTTGGATGCAGAACCTAAACCCTGCTCAGATACAAACAGTGACTC[CT]CCAGATGAAGGTCTAGATCACAATATTCACATTAAATGTAAACGAGAACATCAAGGTTAT RLF
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20232 P T S CGCGCCGAGGACACATGATCATCTCAACCY
20232 P A S ATGACGTGGCAGACTCACATGATCATCTCAACCY
20232 T T S AAATGGTTGAGATGATCATGTGTTTTCAACTTTTTTGAACATGAATATATCACTCACCGTGTGATTAGAAGTGGGGA
20232 T A S AAATGGTTGAGATGATCATGTGATTTCAACTTTTTTGAACATGAATATATCACTCACCGTGTGATTAGAAGTGGGGA
20232 IS [TA] ACACAGGTGTCTATGTCCAAAGCAGTTTGGTTGGAAAAAAATGGTTGAGATGATCATGTG[TA]TTTCAACTTTTTTGAACATGAATATATCACTCACCGTGTGATTAGAAGTGGGGATGAACT
20928 I A GCCTCCTGGTTTTTGTATAGATAACTAAAGATAGCACCCTGAT
20928 P A A CGCGCCGAGGATAGCAATGTTGGTATACAATGY
20928 P C A ATGACGTGGCAGACCTAGCAATGTTGGTATACAATGY
20928 T A A AAGCCATTGTATACCAACATTGCTATTCAGGGTGCTATCTTTAGTTATCTATCACAAAACCAGGAGGCAT
20928 T C A AAGCCATTGTATACCAACATTGCTAGTCAGGGTGCTATCTTTAGTTATCTATCACAAAACCAGGAGGCAT
20928 IS [AC] ACAAAATTTGCTGTGGATGCCTCCTGGTTTTGTGATAGATAACTAAAGATAGCAGCCCTGA[AC]TAGCAATGTTGGTATACAATGGCTTCCTGGTCCTGTTGGCCACCCTACTGAGTCTACAAAC
21361 I S ACCACCAGCCTCCCCTGAGCCTCT
21361 P T S CGCGCCGAGGATAAGACACAGGCTGCTY
21361 P C S ATGACGTGGCAGACGTAAGACACAGGCTGCY
21361 T T S AAGCAGCAGGCTGTGTCTTATGAAGGCTCAGGGGAGGCTGGTGGTGG
21361 T C S AAGCAGCAGCCTGTGTCTTACGAAGGCTCAGGGGAGGCTGGTGGTGG
21361 IS [TC] CATGGGTCCCTGGAAGGGTCTGGATTGTTAATGTTCCTTAAAGCAGCAGCCTGTGTCTTA[TC]GAAGGCTCAGGGGAGGCTGGTGGTGGAAGGAGCTCCATGTGTGTAAGTGATGTGTGTGCAAA
21911 I A CCTTCAGTTTCTTCTCCAGTGCCACGTCACCA
21911 P C A ATGACGTGGCAGACCACCTGAGCTGCCTY
21911 P T A CGCGCCGAGGTACCTGAGCTGCCTCY
21911 T C A ACCTGAGGCAGCTCAGGTGGGTGACGTGGCACTGGAGAAGAAACTGAAGGAC
21911 T T A ACCTGAGGCAGCTCAGGTAGGTGACGTGGCACTGGAGAAGAAACTGAAGGAC
21911 IS [CT] AGCTTACATCCTCATGCTTGGGTGTCTGTCCTTCAGTTTCTTCTCCAGTGCCACGTCACC[CT]ACCTGAGCTGCCTCAGGTTTGCTCCCTGCTGCTGTGCACACGTAAATCAGTGTCTGGCCG
22095 I S CTACTGCCGGGGAGCCCCCT
22095 P T S CGCGCCGAGAAGGCCTGCTGTCTATCY
22095 P C S ATGACGTGGCAGACGGGCCTGCTGTCTATY
22095 T T S TGGAGATAGACAGCAGGCCTGGGGGCTCCCCGGCAGTAGCT
22095 T C S TGGAGATAGACAGCAGGCCCGGGGGGCTCCCCGGCAGTAGCT
22095 IS [TC] CTCAGACACTGGGCTCCCAGCTGGGGACTGCTCCACGGCCATGGAGATAGACAGCAGGCC[TC]GGGGGGCTCCCCGGCAGTAGCTGCAACCTAGGTGCAGCCCGAGAACACATGCAGCCGGTC ATP5B1

FIGURE 129F

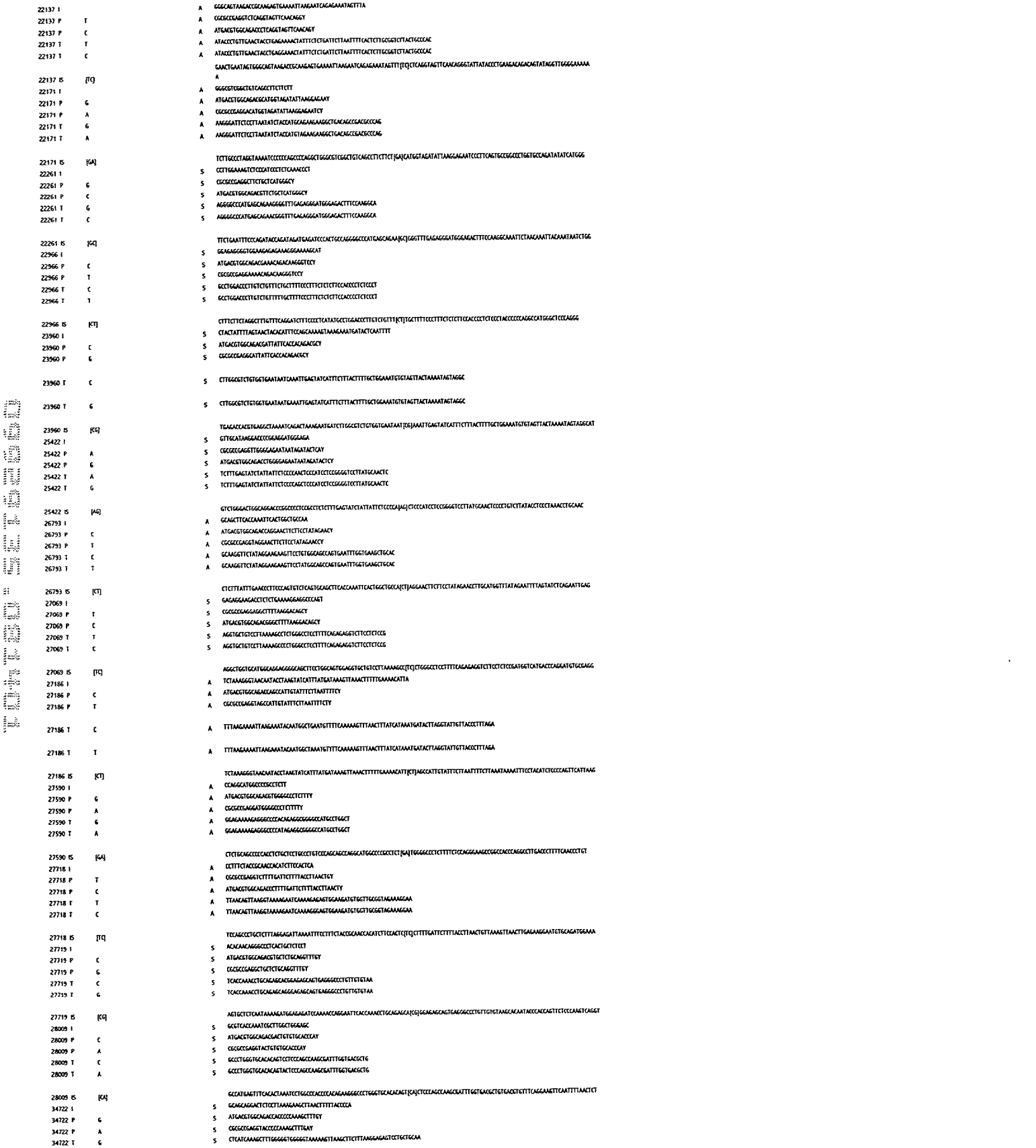


FIGURE 129F

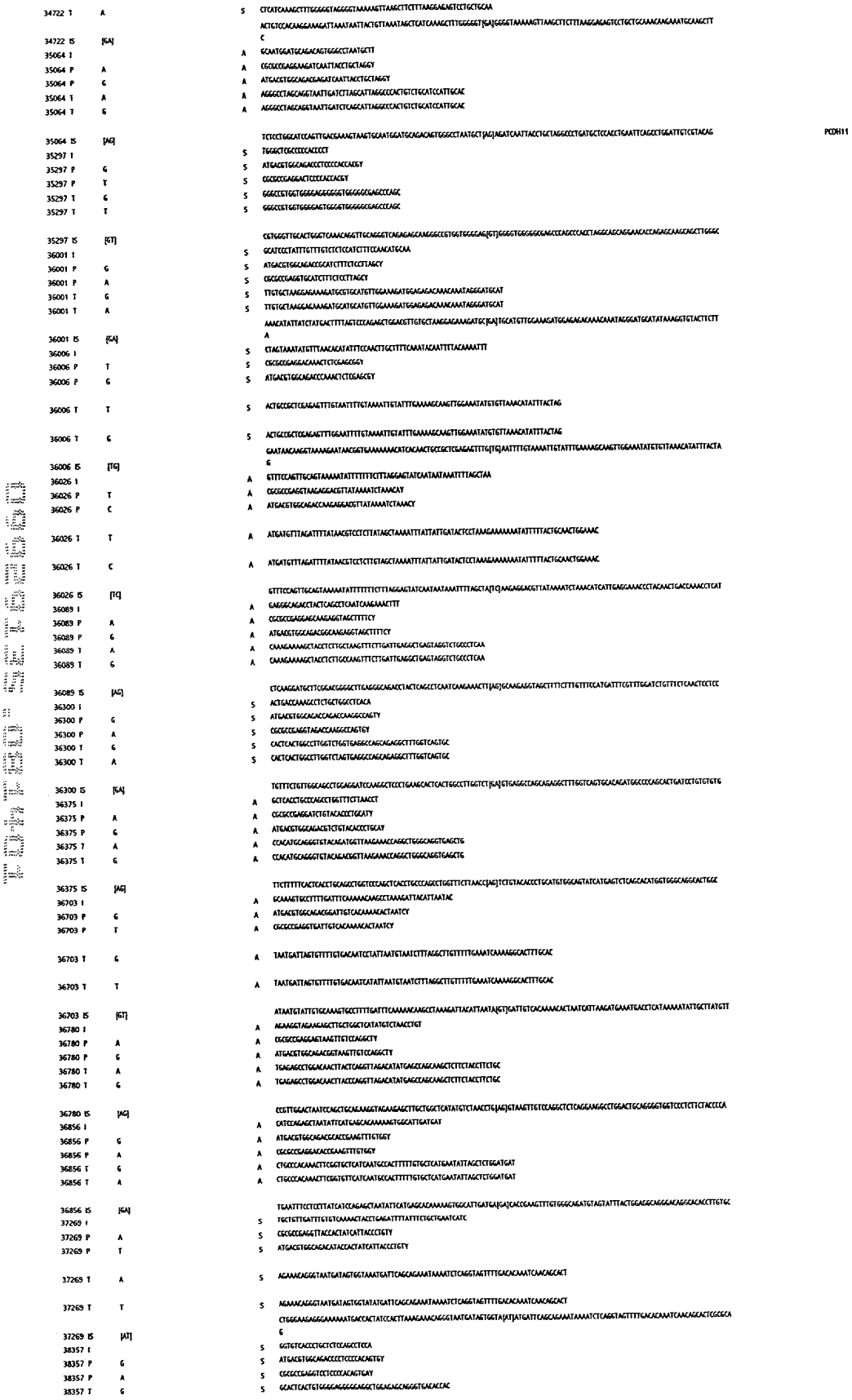


FIGURE 129F

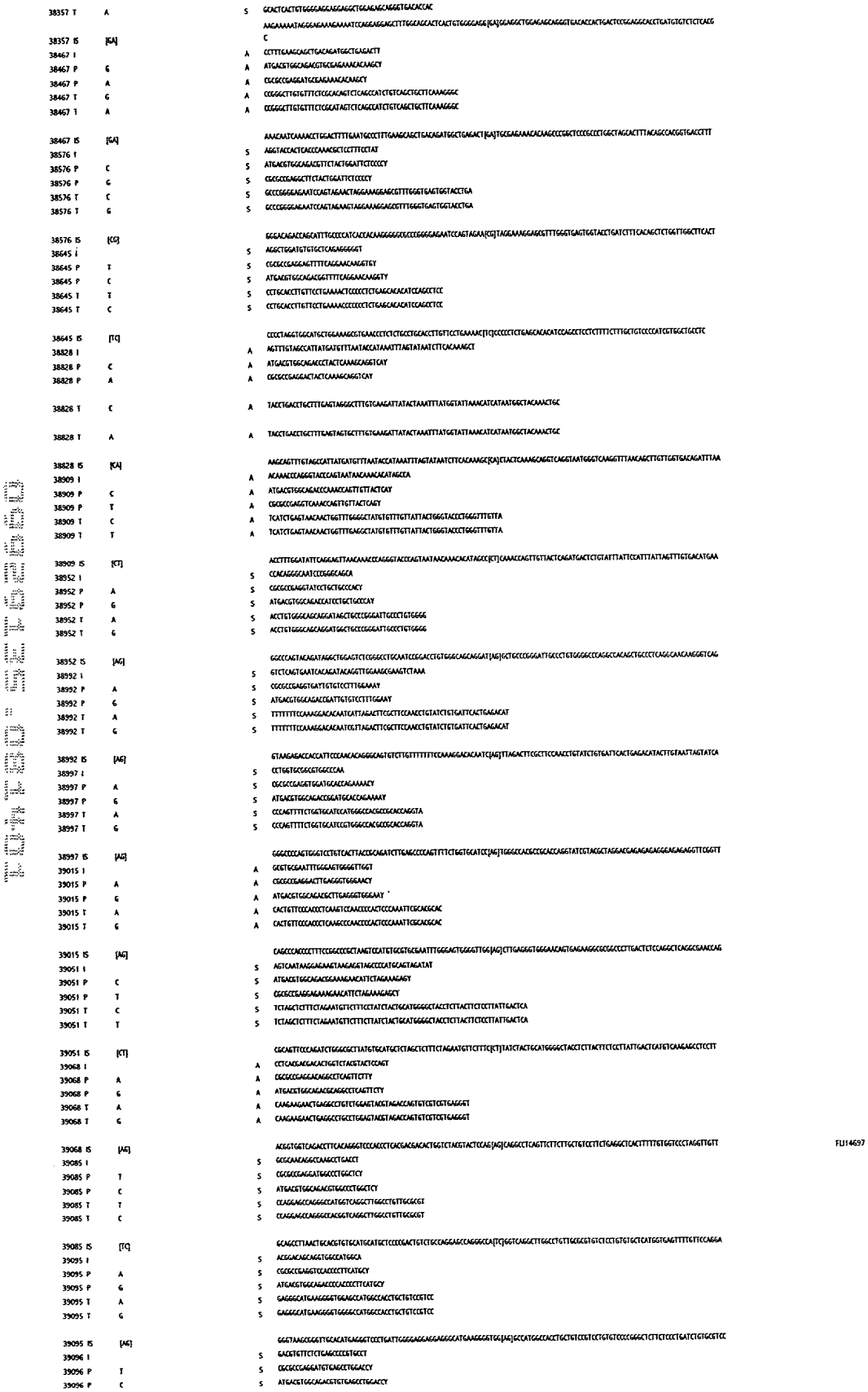


FIGURE 129F

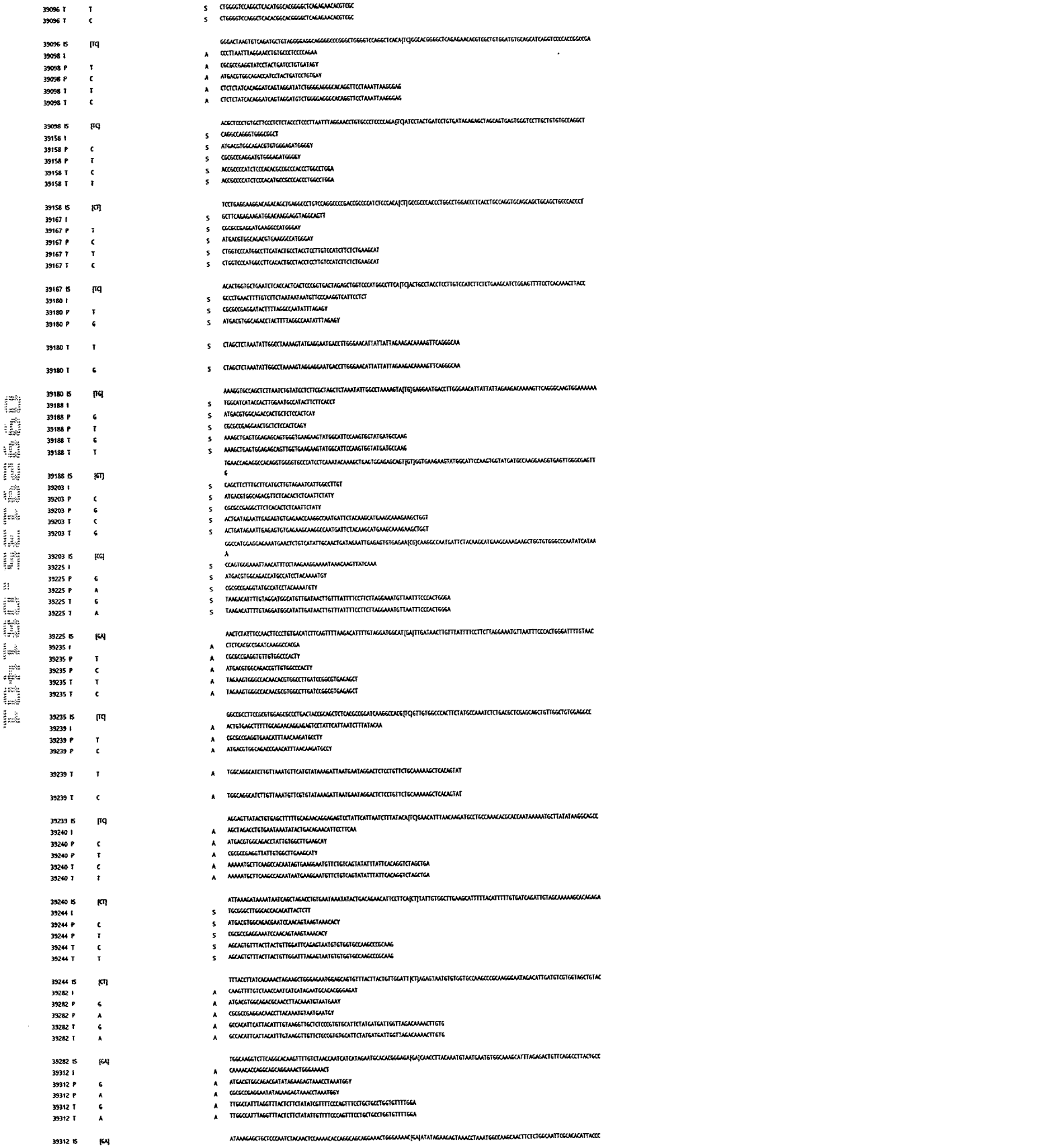

39096 T T S CTGGGGTCCAGGCTCACATGGCACGGGGCTCAGAGAACACGTGGC
39096 T C S CTGGGGTCCAGGCTCACACGGCACGGGGCTCAGAGAACACGTGGC
39096 IS [TC] GGGACTAAGTGTCAGATGCTGTAGGGGAGGCAGGGGCCCCGGGCTGGGGTCCAGGCTCACA[TC]GGCACGGGGCTCAGAGAACACGTGGCTGTGGATGTGCAGCATCAGGTCCCCACCGGCCGA
39098 I A CCCTTAATTAGGAACCTGTGCCCTCCCCAGAA
39098 P T A CGCGCCGAGGTATCCTACTGATCCTGTGATAGY
39098 P C A ATGACGTGGCAGACCATCCTACTGATCCTGTGAY
39098 T T A CTCTCTATCACAGGATCAGTAGGATATCTGGGGCAGGGCACAGGTTCCTAAATTAAGGGAG
39098 T C A CTCTCTATCACAGGATCAGTAGGATGTCTGGGCAGGGCACAGGTTCCTAAATTAAGGGAG
39098 IS [TC] ACGCTCCCTGTGCTTCCCTCTCTACCCTCCCTTAATTTAGGAACCTGTGCCCTCCCCAGA[TC]ATCCTACTGATCCTGTGATAGAGAGCTAGCAGTGAGTGGGTCCTTGCTGTGTGCCAGGCT
39158 I S CAGGCCAGGGTGGGCGGCT
39158 P C S ATGACGTGGCAGACGTGTGGGAGATGGGGY
39158 P T S CGCGCCGAGGATGTGGGAGATGGGGY
39158 T C S ACCGCCCCATCTCCCACACGCGCCCACCCTGGCCTGGA
39158 T T S ACCGCCCCATCTCCCACATGCCGCCCACCCTGGCCTGGA
39158 IS [CT] TCCTGAGCAAGGACAGACAGACGTGAGGCCTGTCCAGGCCCCGACCGCCCCATCTCCCACA[CT]GCCGCCCACCCTGGCCTGGACCCTCACCTGCCAGGTGCAGCAGCTGCAGCTGCCCACCCT
39167 I S GCTTCAGAGAAGATGGACAAGGAGGTAGGCAGTT
39167 P T S CGCGCCGAGGATCAAGGCCATGGGAY
39167 P C S ATGACGTGGCAGACGTGAAGGCCATGGGAY
39167 T T S CTGGTCCCATGGCCTTCATACTGCCTACCTCCTTGTCCATCTCTCTCTGAAGCAT
39167 T C S CTGGTCCCATGGCCTTCACACTGCCTACCTCCTTGTCCATCTTCTCTCTGAAGCAT
39167 IS [TC] ACACTGGTGCTGAATCTCACCACTCACTCCCGGTGACTAGAGCTGGTCCCATGGCCTTCA[TC]ACTGCCTACCTCCTTGTCCATCTTCTCTGAAGCATCTGGAGTTTTCCTCACAAACTTACC
39180 I S GCCCTGAACTTTGTCTTCTAATAATAATGTTCCCAAGGTCATTCCTCT
39180 P T S CGCGCCGAGGATACTTTTAGGCCAATATTTAGAGY
39180 P G S ATGACGTGGCAGACCTACTTTTAGGCCAATATTTAGAGY
39180 T T S CTAGCTCTAAATATTGGCCTAAAAGTATGAGGAATGACCTTGGGAACATTATTATTAGAAGACAAAAGTTCAGGGCAA
39180 T G S CTAGCTCTAAATATTGGCCTAAAAGTAGGAGGAATGACCTTGGGAACATTATTATTAGAAGACAAAAGTTCAGGGCAA
39180 IS [TG] AAAGGTGCCAGCTCTTAATCTGTATCCTCTTCGCTAGCTCTAAATATTGGCCTAAAGTA[TG]GAGGAATGACCTTGGGAACATTATTATTAGAAGACAAAAGTTCAGGGCAAGTGGAAAAAA
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39188 P G S ATGACGTGGCAGACCACTGCTCTCCACTCAY
39188 P T S CGCGCCGAGGAACTGCTCTCCACTCAGY
39188 T G S AAAGCTGAGTGGAGAGCAGTGGGTGAAGAAGTATGGCATTCCAAGTGGTATGATGCCAAG
39188 T T S AAAGCTGAGTGGAGAGCAGTTGGTGAAGAAGTATGGCATTCCAAGTGGTATGATGCCAAG
39188 IS [GT] TGAACCAGAGGCCACAGGTGGGGTGCCCATCCTCAAATACAAAGCTGAGTGGAGAGCAGT[GT]GGTGAAGAAGTATGGCATTCCAAGTGGTATGATGCCAAGGAAGGTGAGTTGGGCGAGTT
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39203 I S CAGCTTCTTTGCTTCATGCTGTAGAATCATTGGCCTTGT
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A
39225 I S CCAGTGGGAAATTAACATTTCCTAAGAAGGAAAATAAACAAGTTATCAAA
39225 P G S ATGACGTGGCAGACATGCCATCCTACAAAATGY
39225 P A S CGCGCCGAGGTATGCCATCCTACAAAATGTY
39225 T G S TAAGACATTTTGTAGGATGGCATGTTGATAACTTGTTTATTTTCCTTCTTAGGAAATGTTAATTTCCCACTGGGA
39225 T A S TAAGACATTTTGTAGGATGGCATATTGATAACTTGTTTATTTTCCTTCTTAGGAAATGTTAATTTCCCACTGGGA
39225 IS [GA] AACTCTATTTCCAACTTCCCTGTGACATCTTCAGTTTTAAGACATTTTGTAGGATGGCAT[GA]TTGATAACTTGTTTATTTTCCTTCTTAGGAAATGTTAATTTCCCACTGGGATTTTGTAAC
39235 I A CTCTCACGCCGATCAAGGCCACGA
39235 P T A CGCGCCGAGGTGTTGTGGCCCACTY
39235 P C A ATGACGTGGCAGACGGTTGTGGCCCACTY
39235 T T A TAGAAGTGGGCCACAACACGTGGCCTTGATCCGGCGTGAGAGCT
39235 T C A TAGAAGTGGGCCACAACGCGTGGCCTTGATCCGGCGTGAGAGCT
39235 IS [TC] GGCCGCCTTCCGCGTGGAGCGCCCTGACTACCGCAGCTCTCAGCCGCGATCAAGGCCACG[TC]GTTGTGGCCCACTTCTATGCCAAATCTCTGACGCTCGAGCAGCTGTTGGCTGTGGAGGCC
39239 I A ACTGTGAGCTTTTTGCAGAACAGGAGAGTCCTATTCATTAATCTTTATACA
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39239 IS [TC] AGCAGTTATACTGTGAGCTTTTTGCAGAACAGGAGAGTCCTATTCATTAATCTTTATACA[TC]GAACATTTAACAAGATGCCTGCCAAACACGCACCAATAAAAATGCTTATATAAGGCAGCC
39240 I A AGCTAGACCTGTGAATAAATATACTGACAGAACATTCCTTCAA
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39240 P T A CGCGCCGAGGTTATTGTGGCTTGAAGCATY
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39240 T T A AAAAATGCTTCAAGCCACAATAATGAAGGAATGTTCTGTCAGTATATTTATTCACAGGTCTAGCTGA
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39244 I S TGCGGGCTTGGCACCACACATTACTCTT
39244 P C S ATGACGTGGCAGACGAATCCAACAGTAAGTAAACACY
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39244 IS [CT] TTTACCTTATCACAAACTAGAAGCTGGGAGAATGGAGCAGTGTTTACTTACTGTTGGATT[CT]AGAGTAATGTGTGGTGCCAAGCCCGCAAGGAATAGACATTGATGTCGTGGTAGCTGTAC
39282 I A CAAGTTTTGTCTAACCAATCATCATAGAATGCACACGGGAGAT
39282 P G A ATGACGTGGCAGACGCAACCTTACAAATGTAATGAAY
39282 P A A CGCGCCGAGGACAACCTTACAAATGTAATGAATGY
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39282 IS [GA] TGGCAAGGTCTTCAGGCACAAGTTTTGTCTAACCAATCATCATAGAATGCACACGGGAAGA[GA]CAACCTTACAAATGTAATGAATGTGGCAAAGCATTTAGAGACTGTTCAGGCCTTACTGCC
39312 I A CAAAACACCAGGCAGCAGGAAACTGGGAAAACT
39312 P G A ATGACGTGGCAGACGATATAGAAAGAGTAAACCTAAATGGY
39312 P A A CGCGCCGAGGAATATAGAAAGAGTAAACCTAAATGGY
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39312 T A A TTGGCCATTTAGGTTTACTCTTCTATATTGTTTTCCCAGTTTCCTGCTGCCTGGTGTTTTGGA
39312 IS [GA] ATAAAGAGCTGCTCCCAATCTACAACTCCAAAACACCAGGCAGCAGGAAACTGGGAAAAC[GA]ATATAGAAAGAGTAAACCTAAATGGCCAAGCAACTTCTCTGGCAATTCGCACACATTACCC

FIGURE 129F

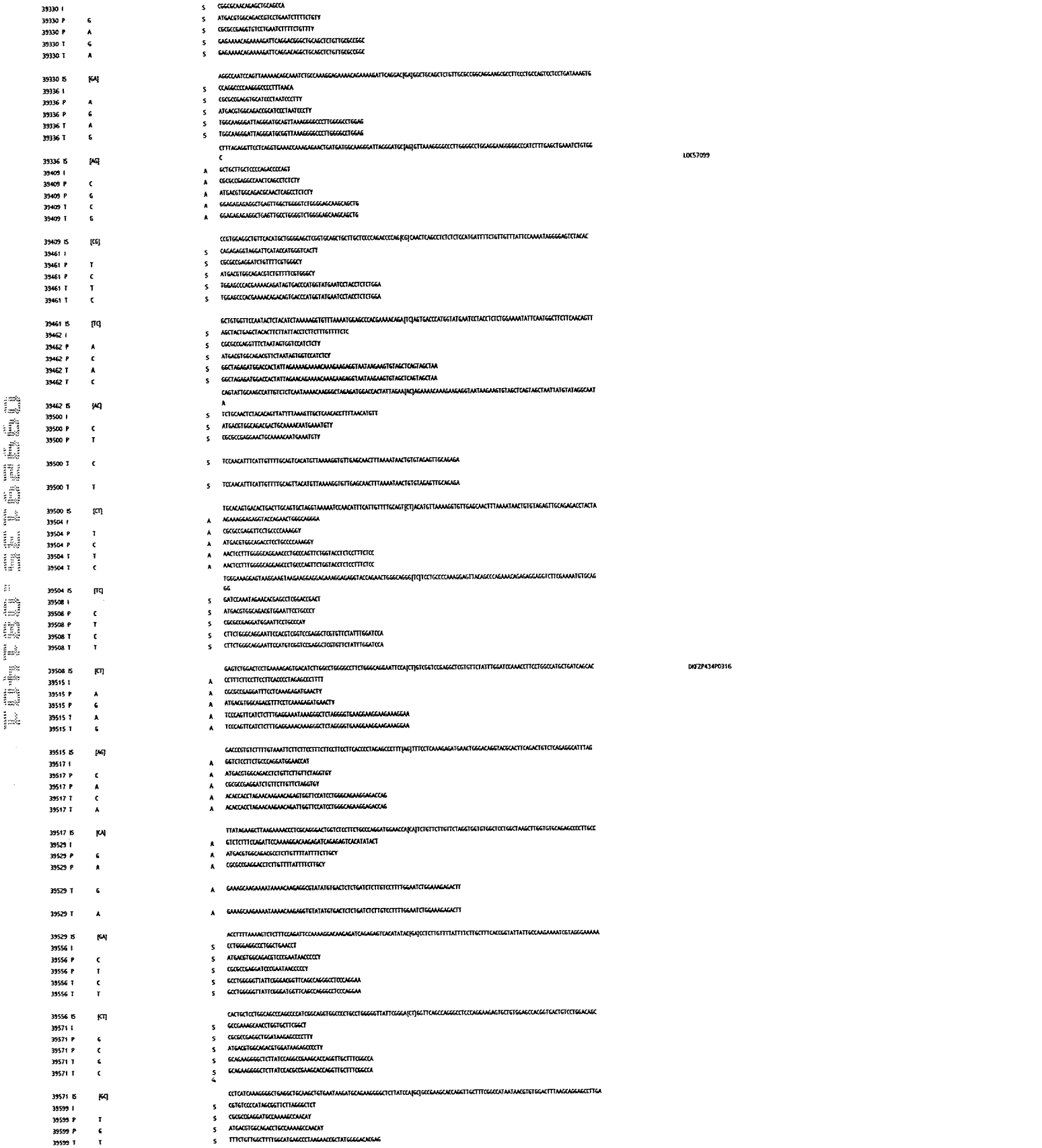


FIGURE 129F

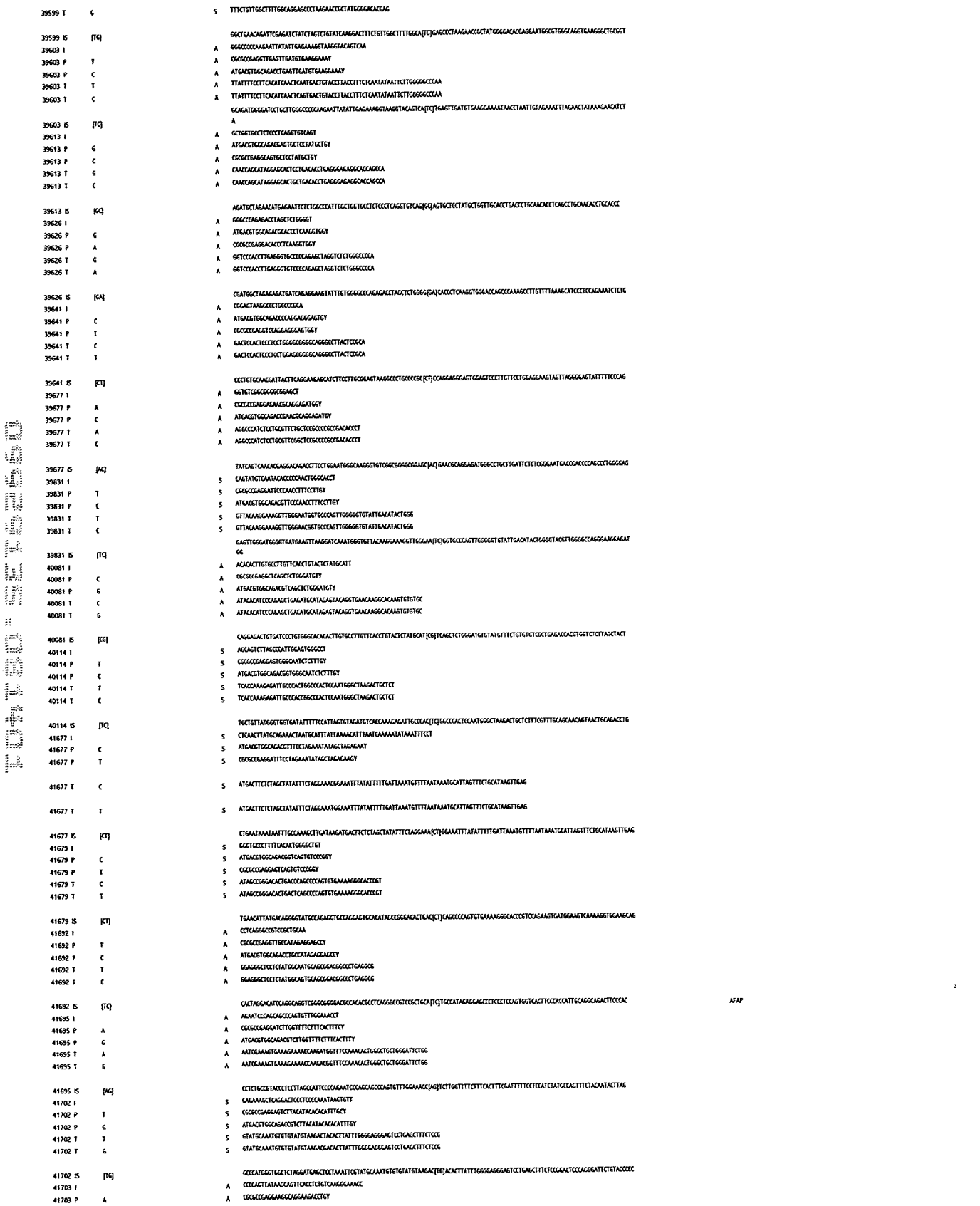


FIGURE 129F

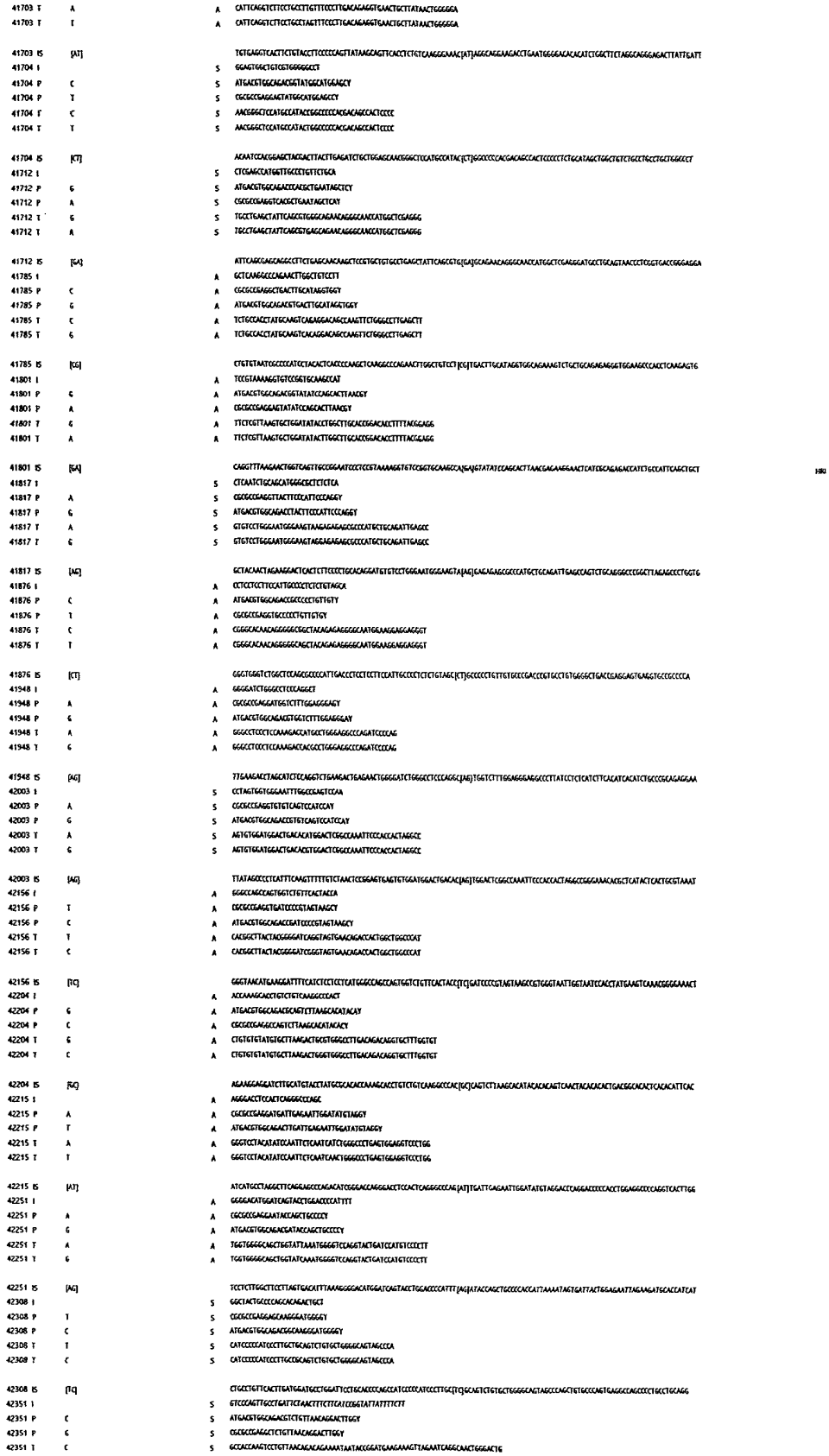
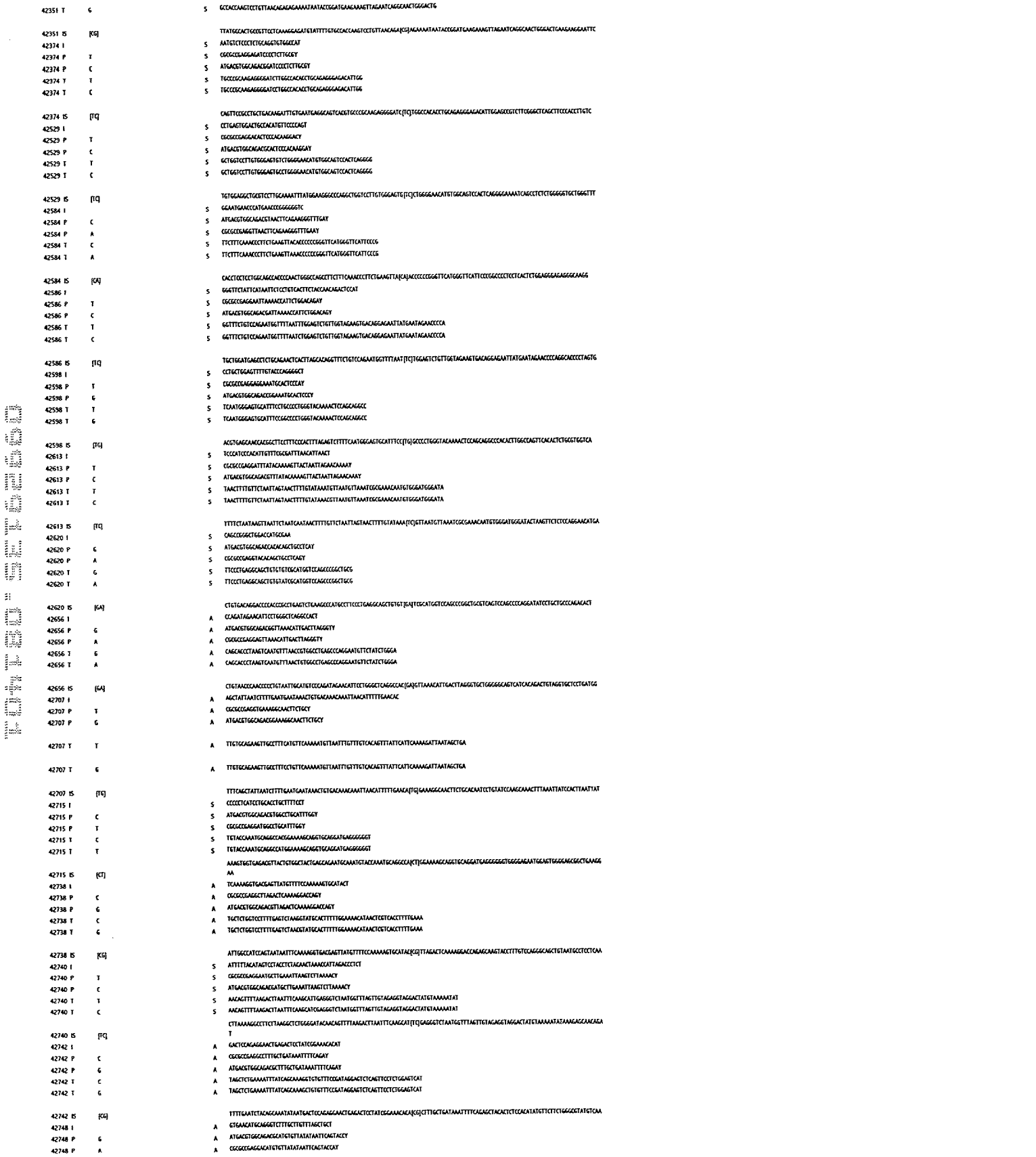


FIGURE 129F



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FIGURE 129F

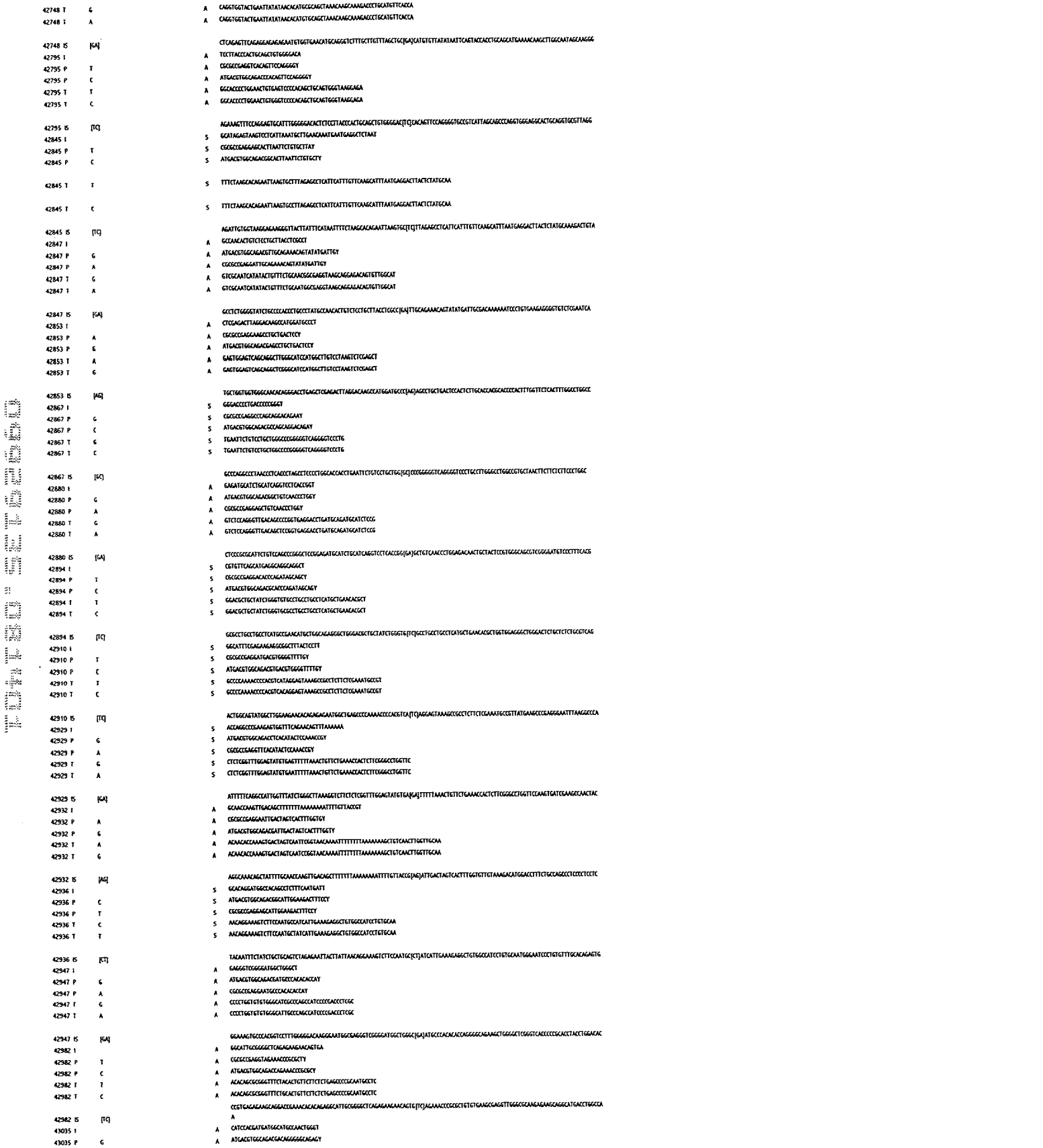


FIGURE 129F

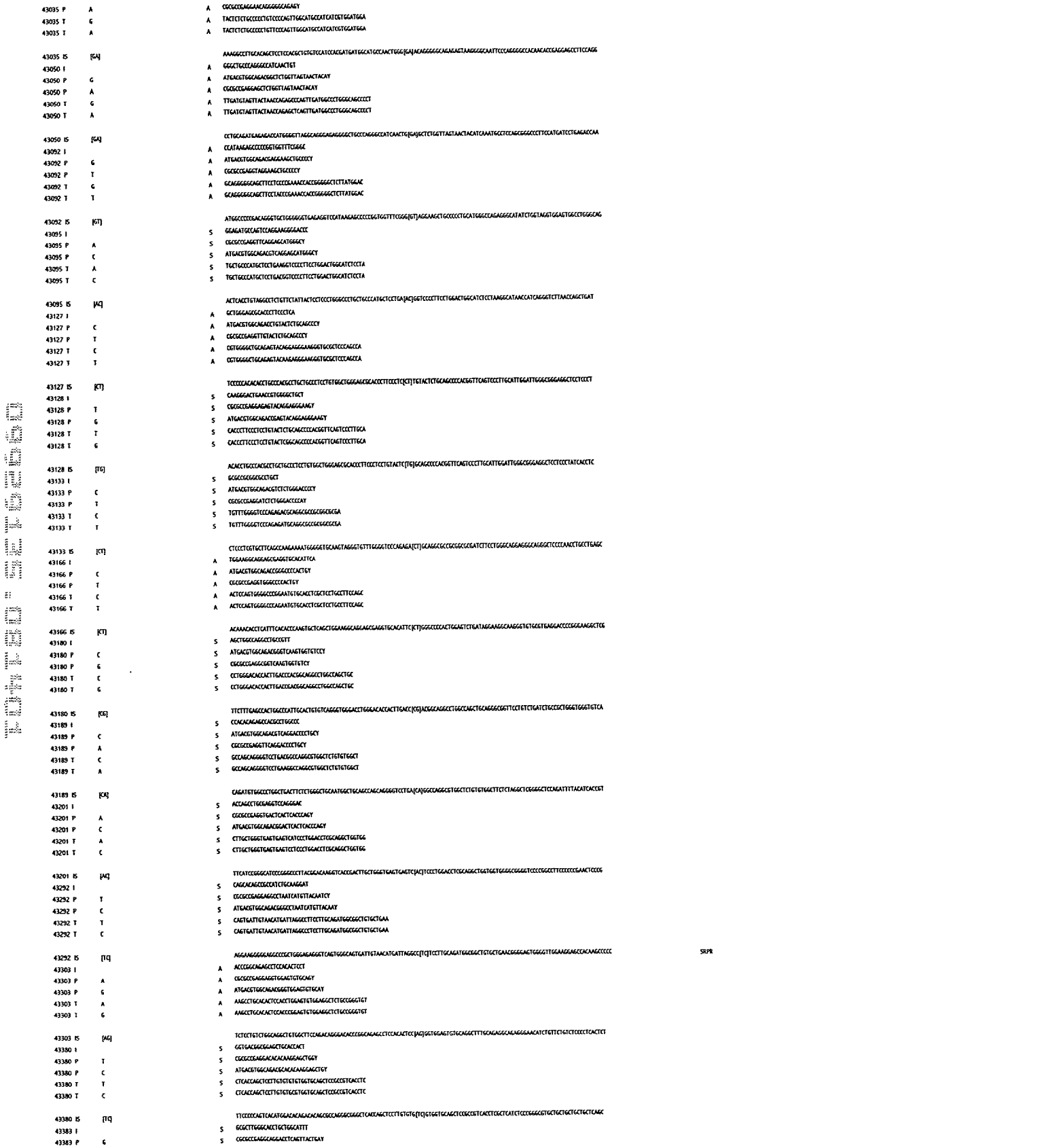


FIGURE 129F

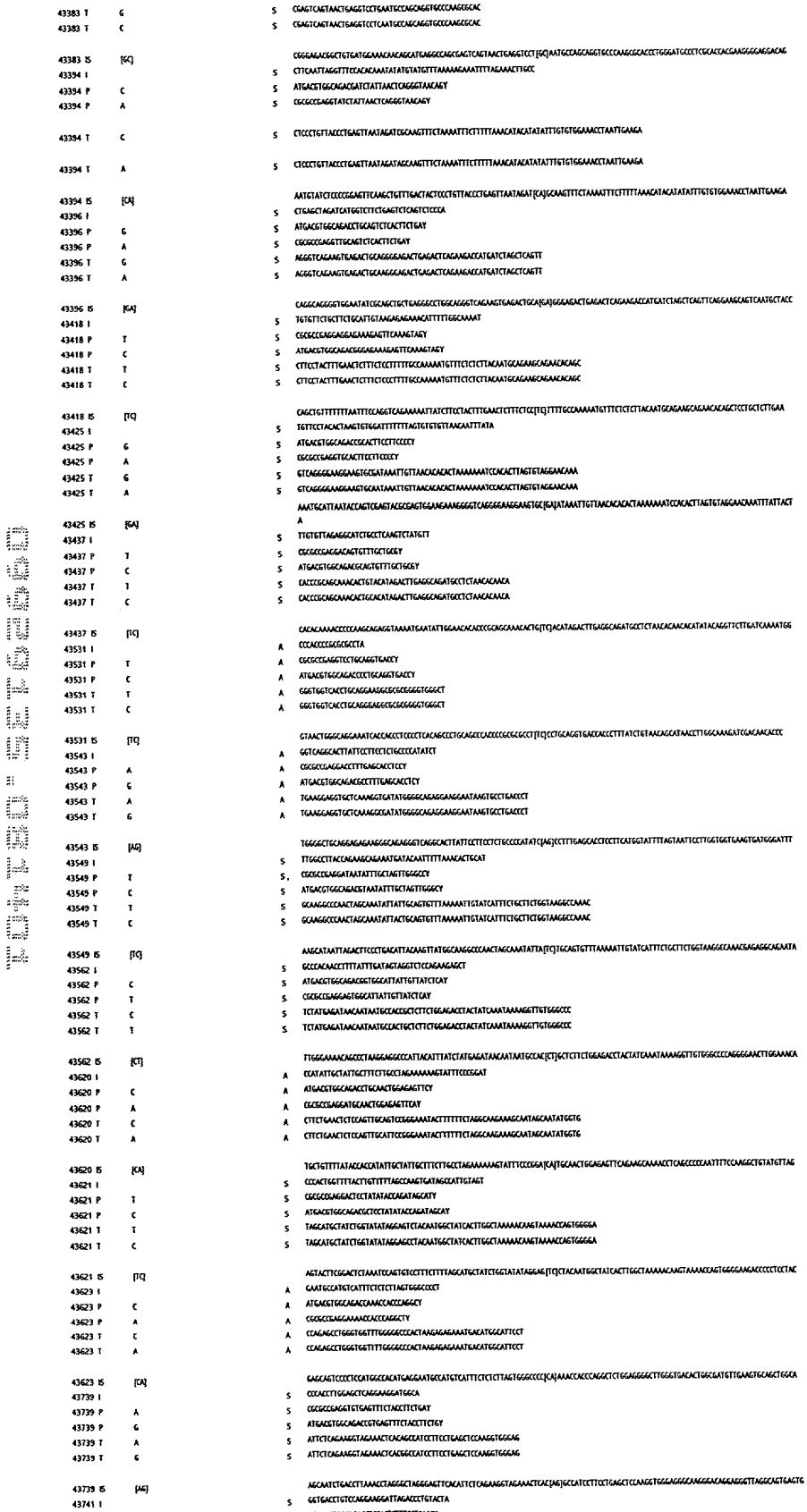


FIGURE 129F

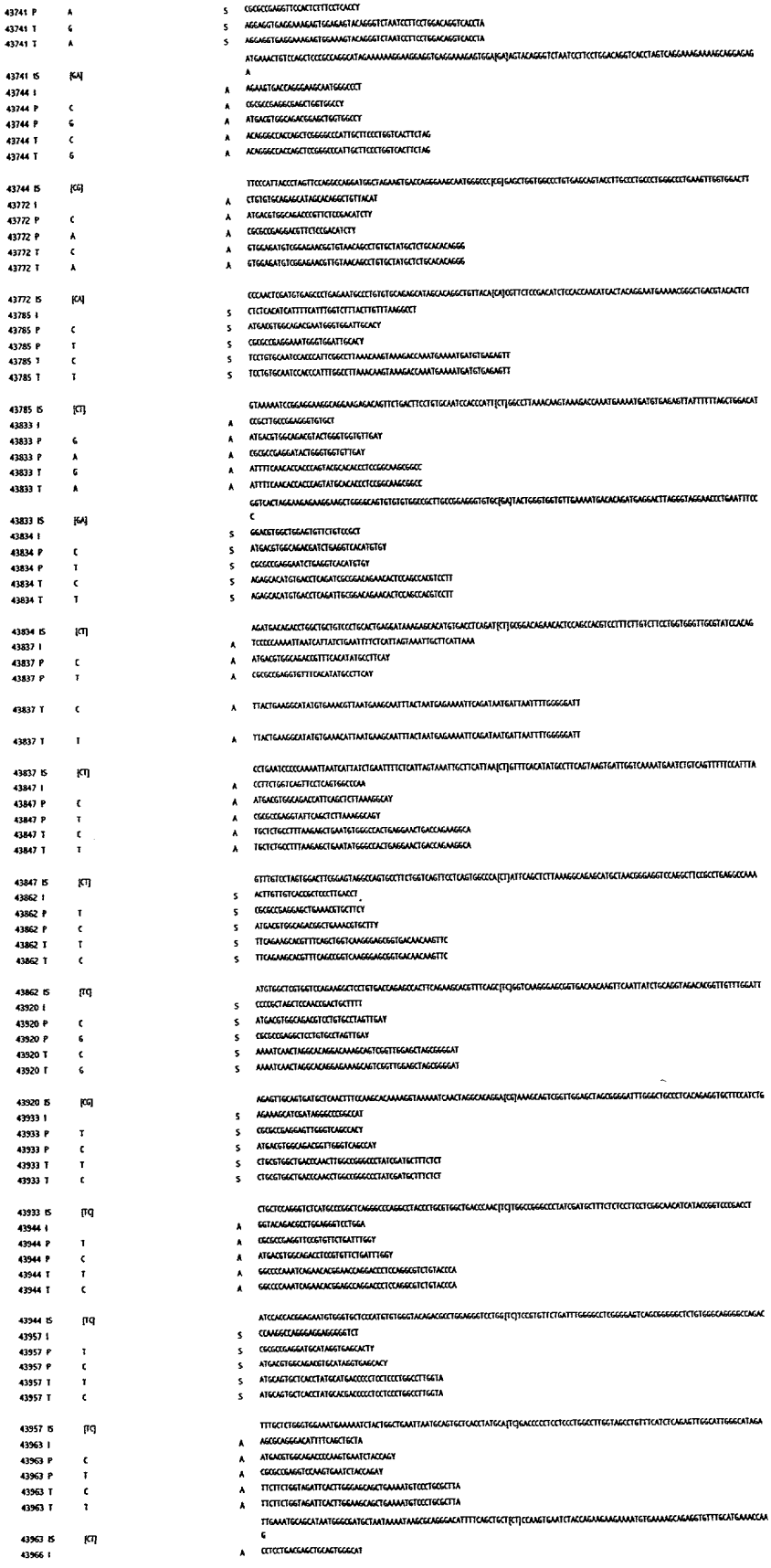
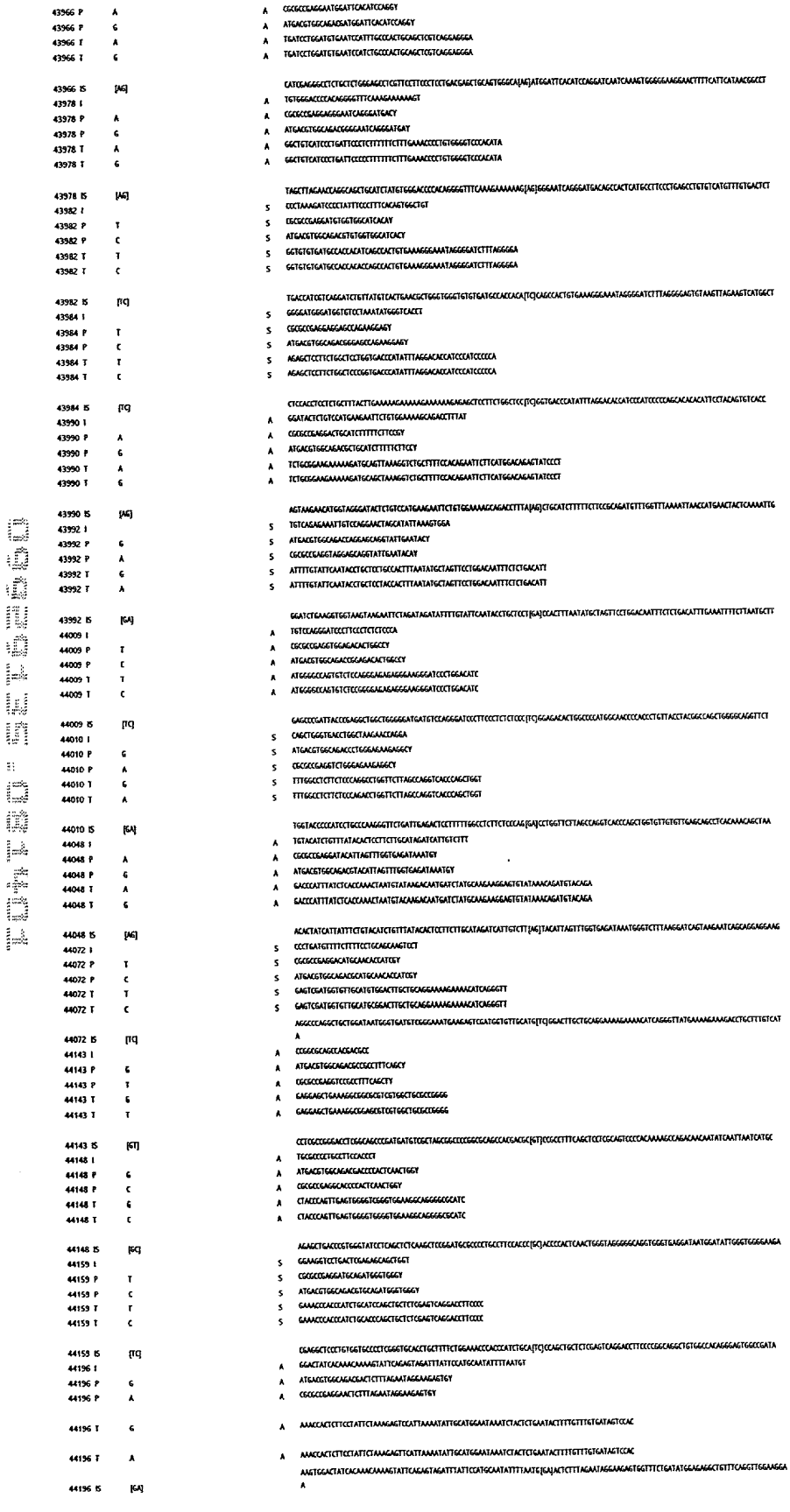


FIGURE 129F



Applicant's Docket No. 10020.0001.PCUS00

FIGURE 129F

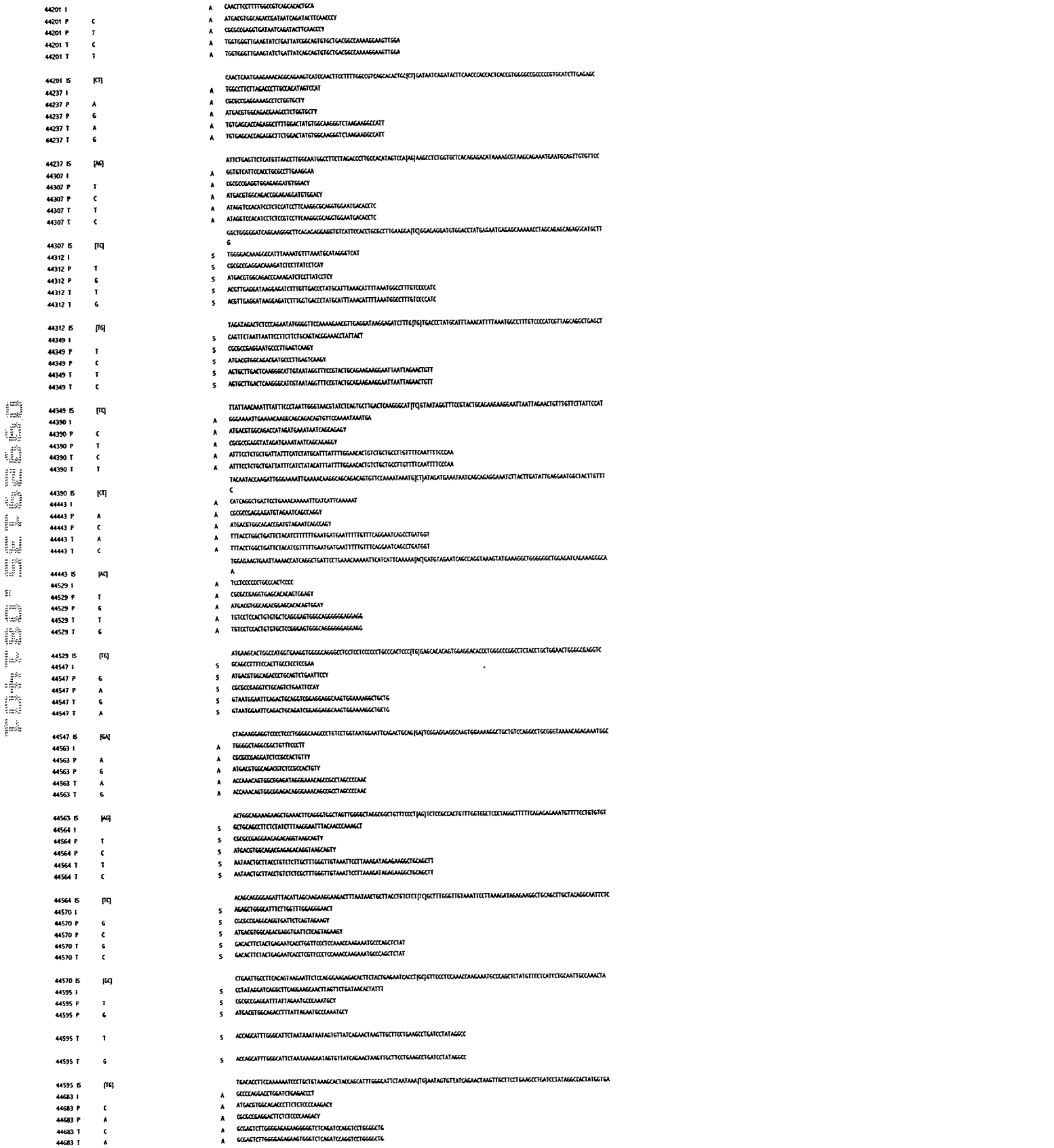
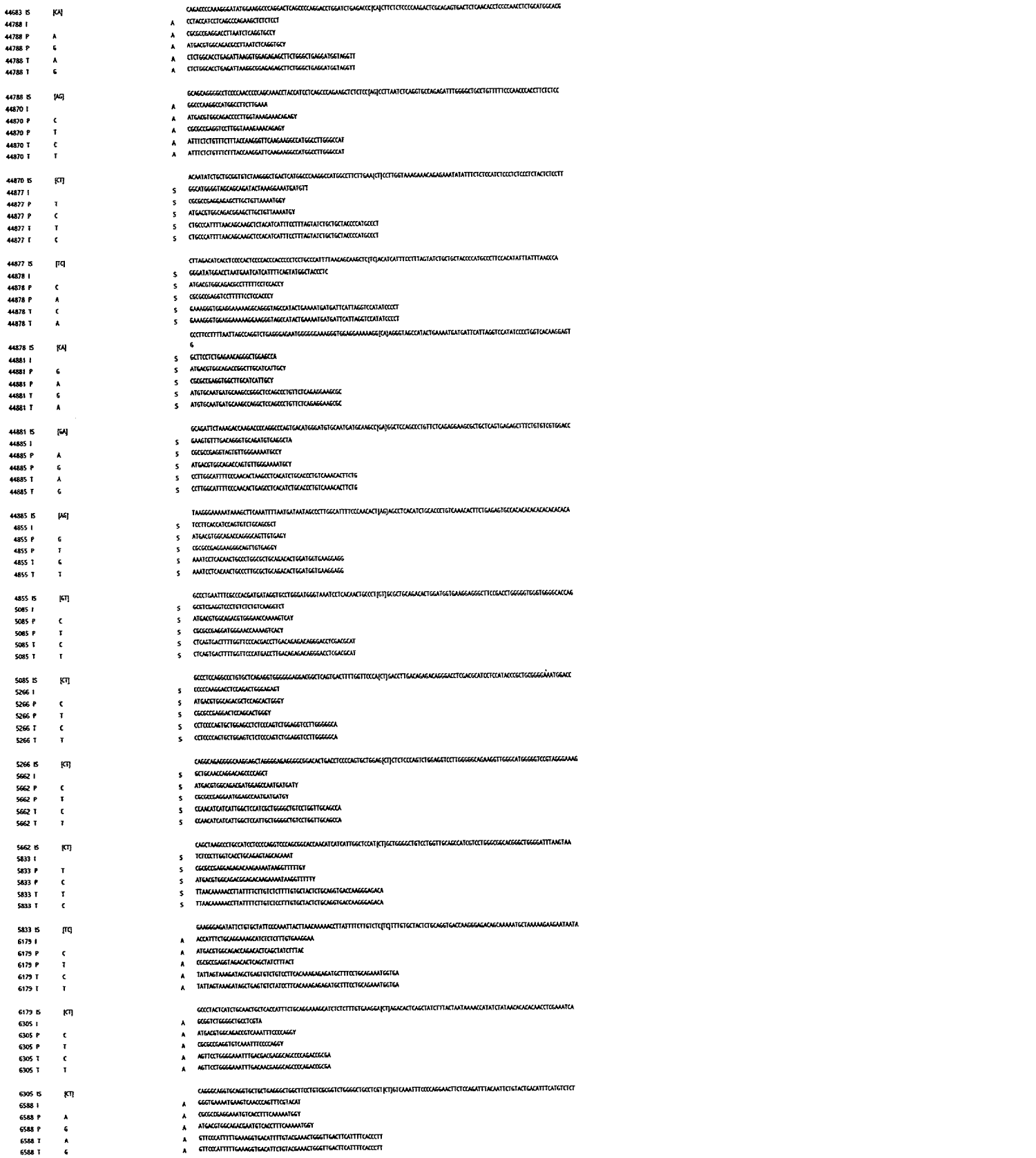
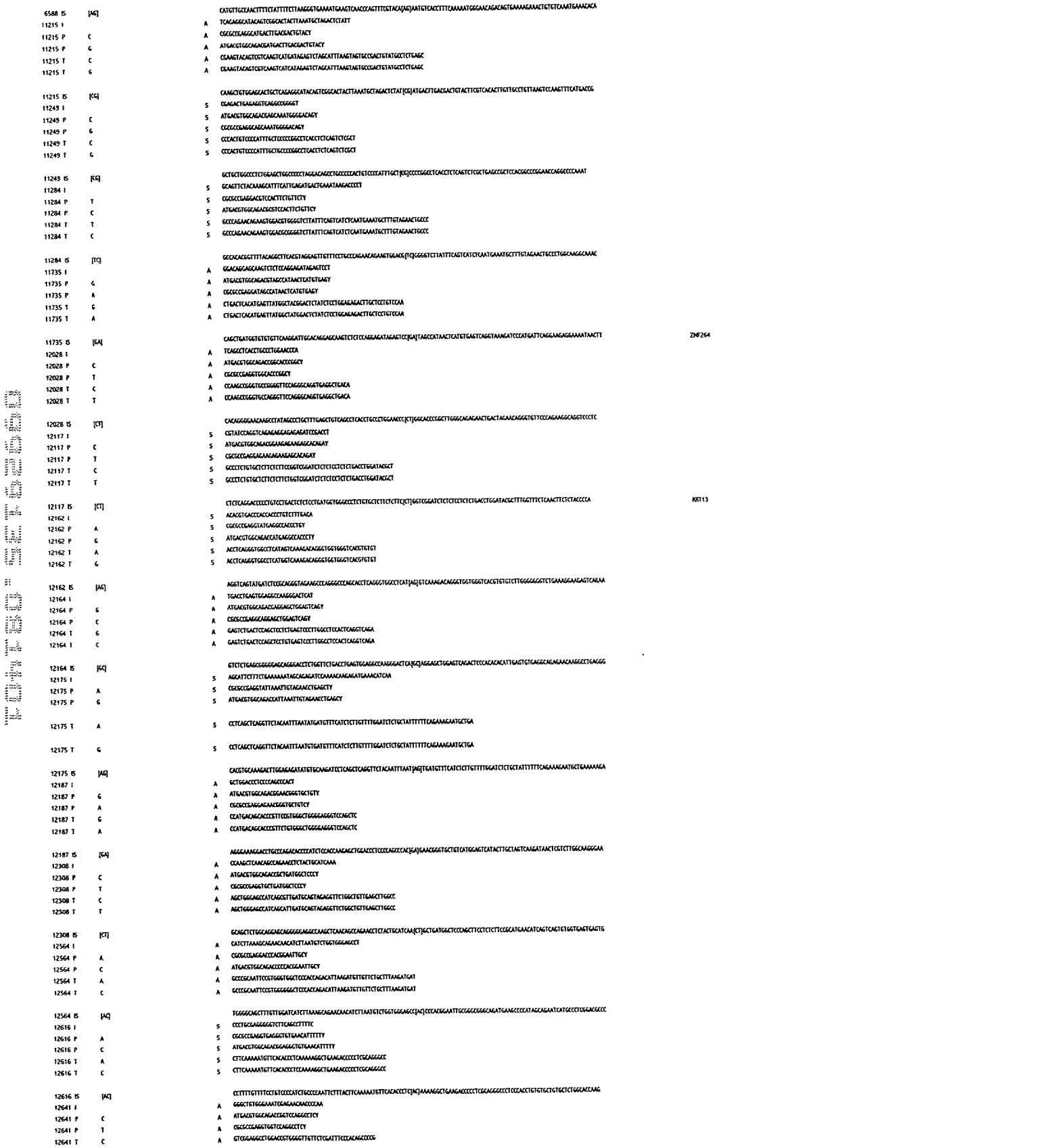


FIGURE 129F



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FIGURE 129F



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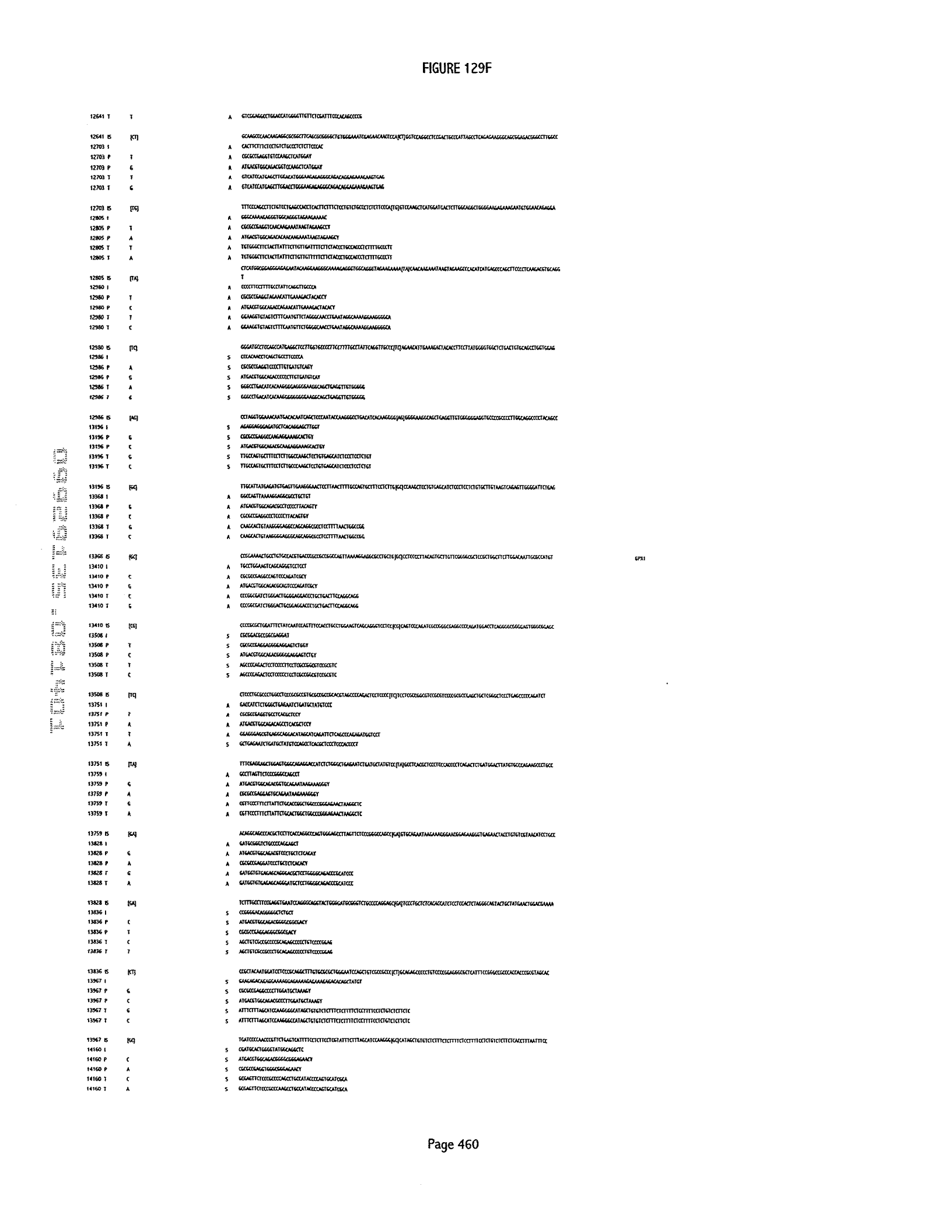
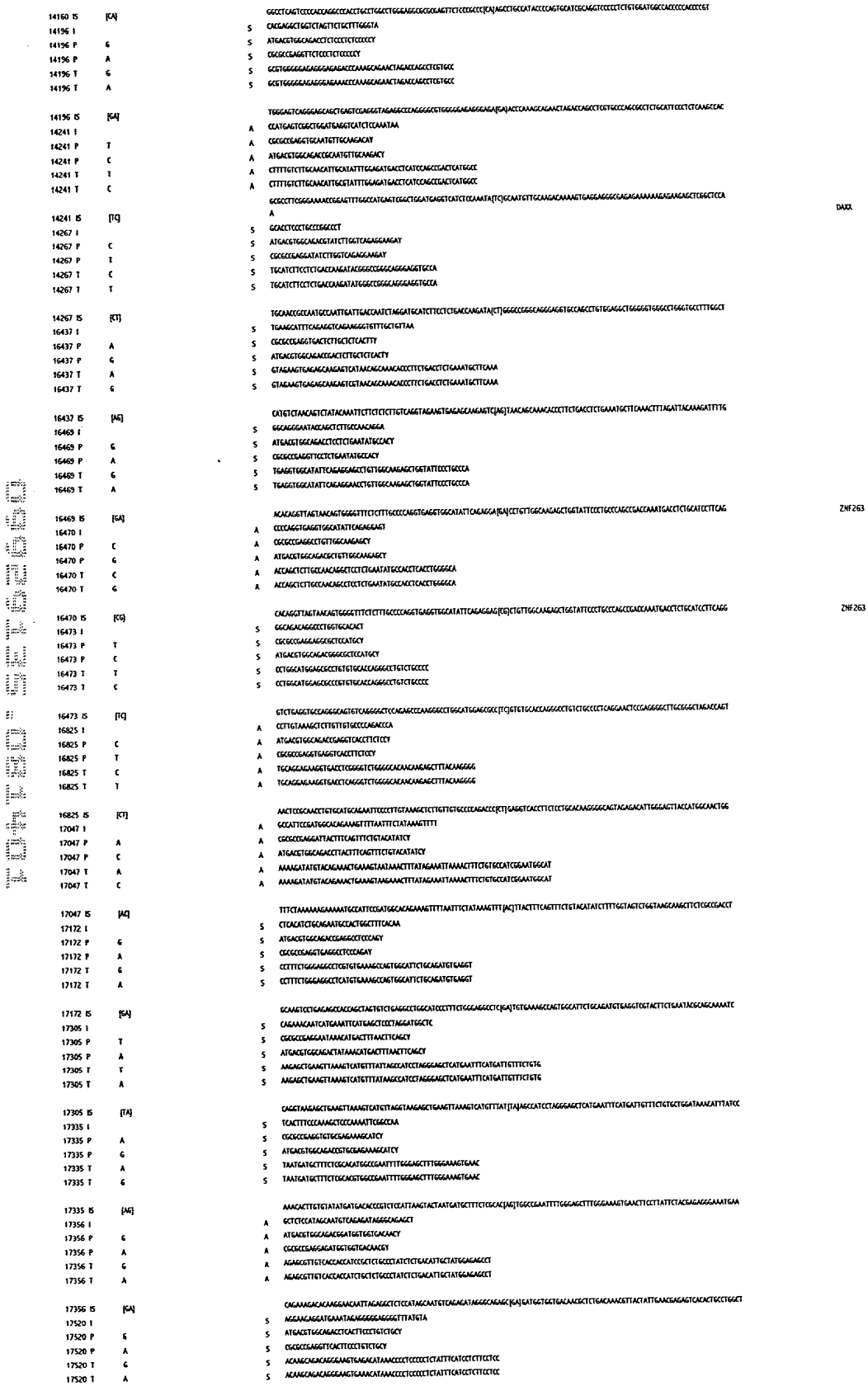


FIGURE 129F



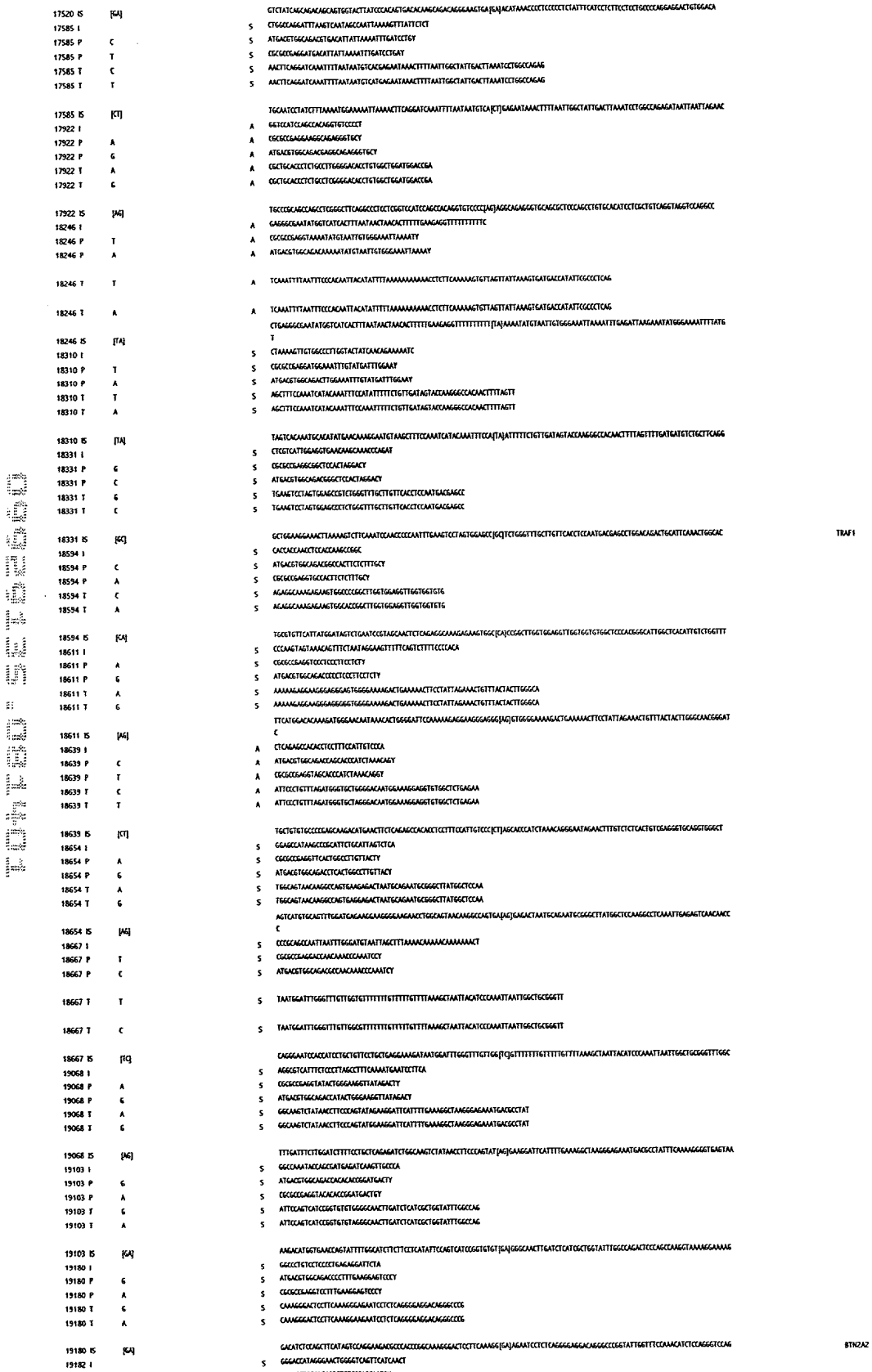


Exhibit 1 Page 1 of 1 Page ID #:1

FIGURE 129F

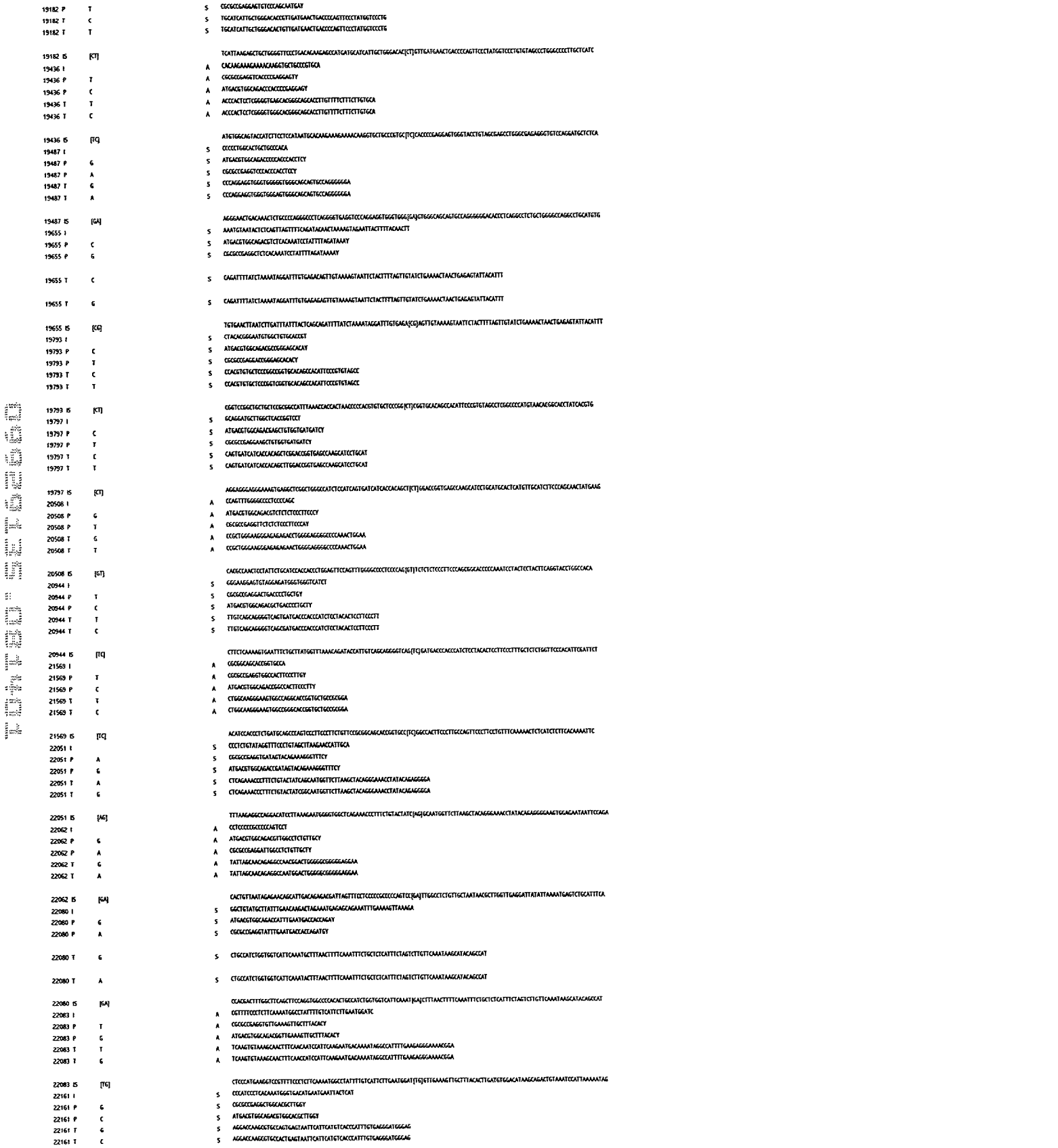
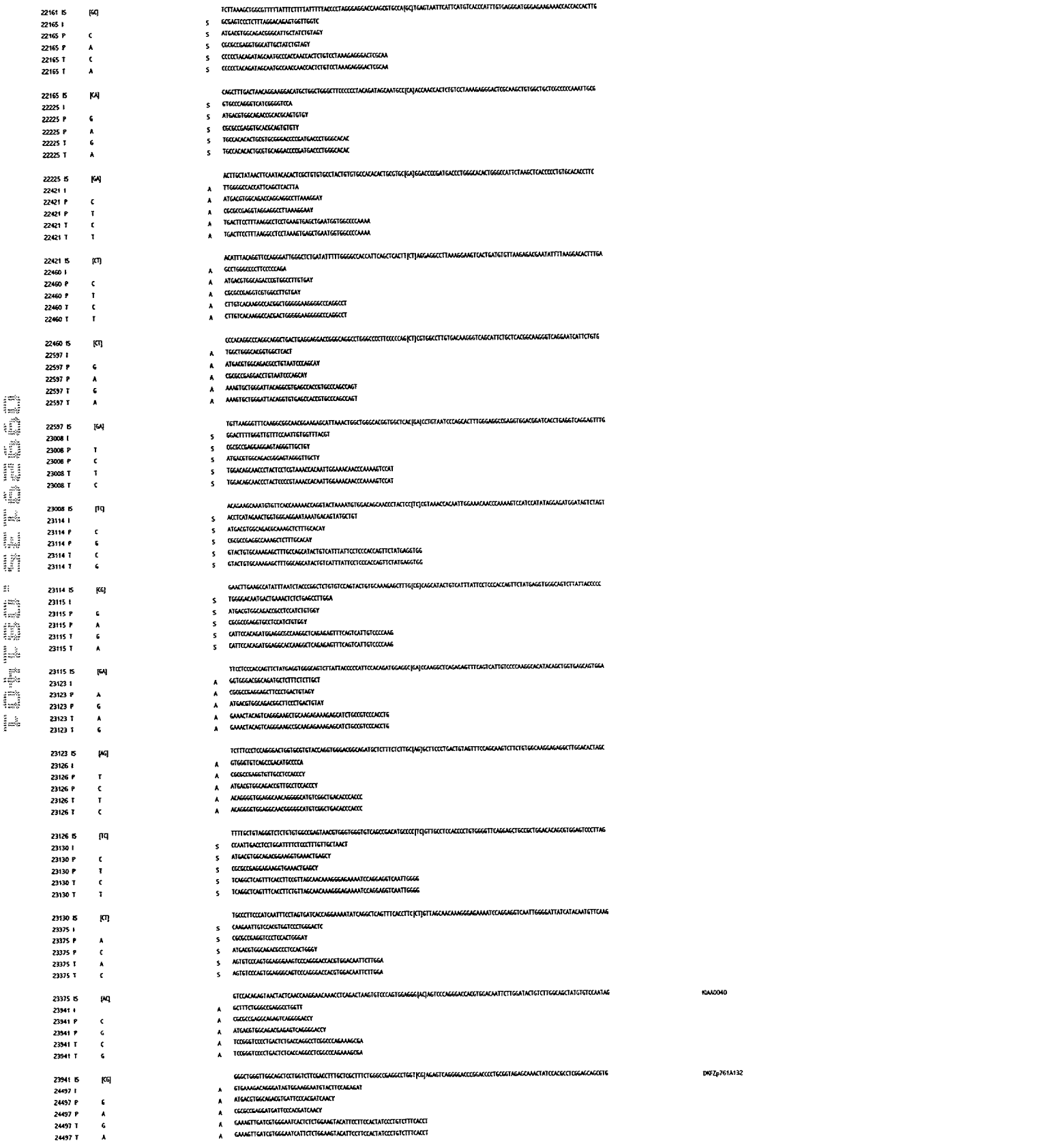
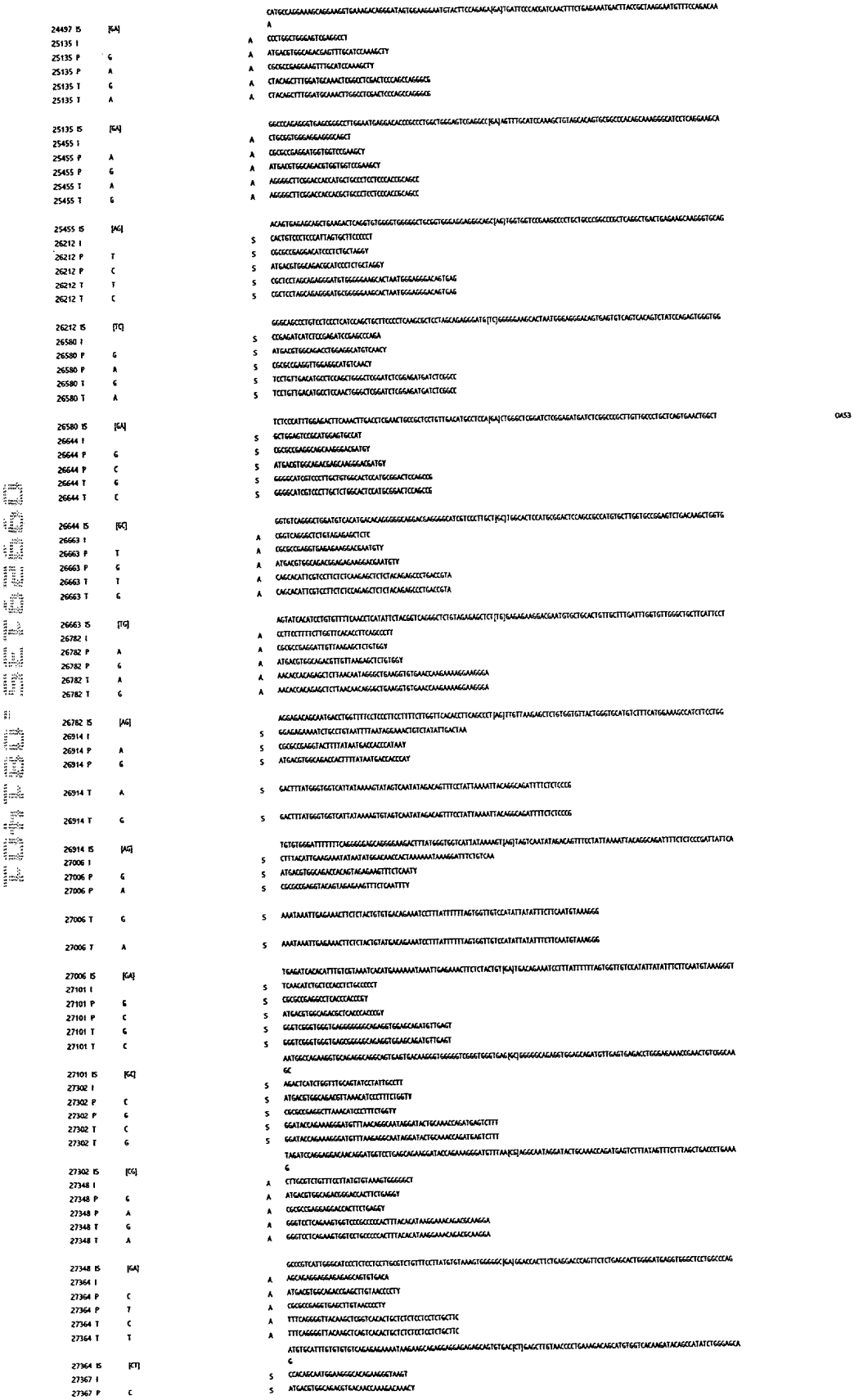

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FIGURE 129F



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FIGURE 129F



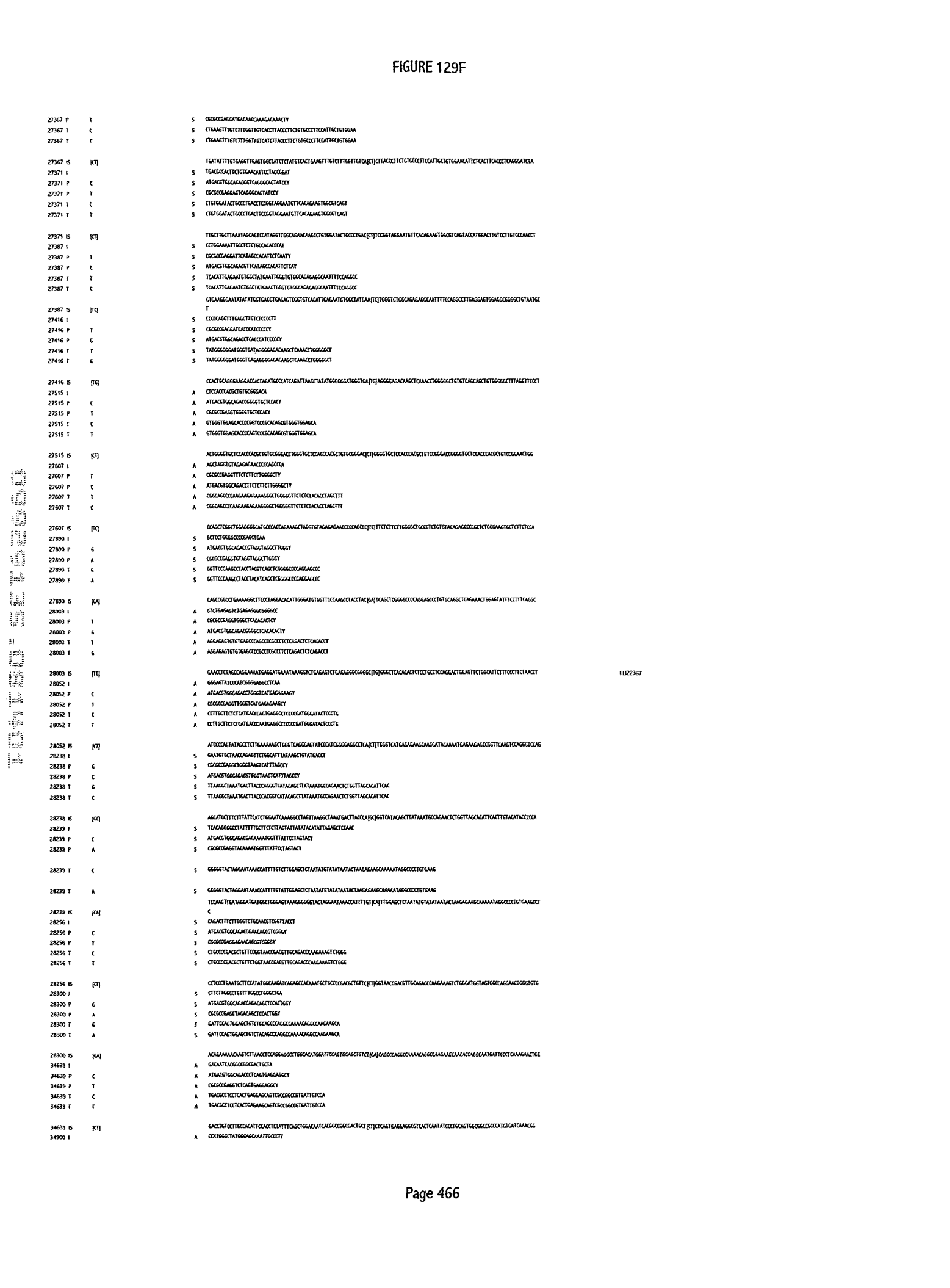

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28300 P A S CGCGCCGAGGTAGACAGCTCCACTGGY
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PLP1 Exon 5

FIGURE 129F

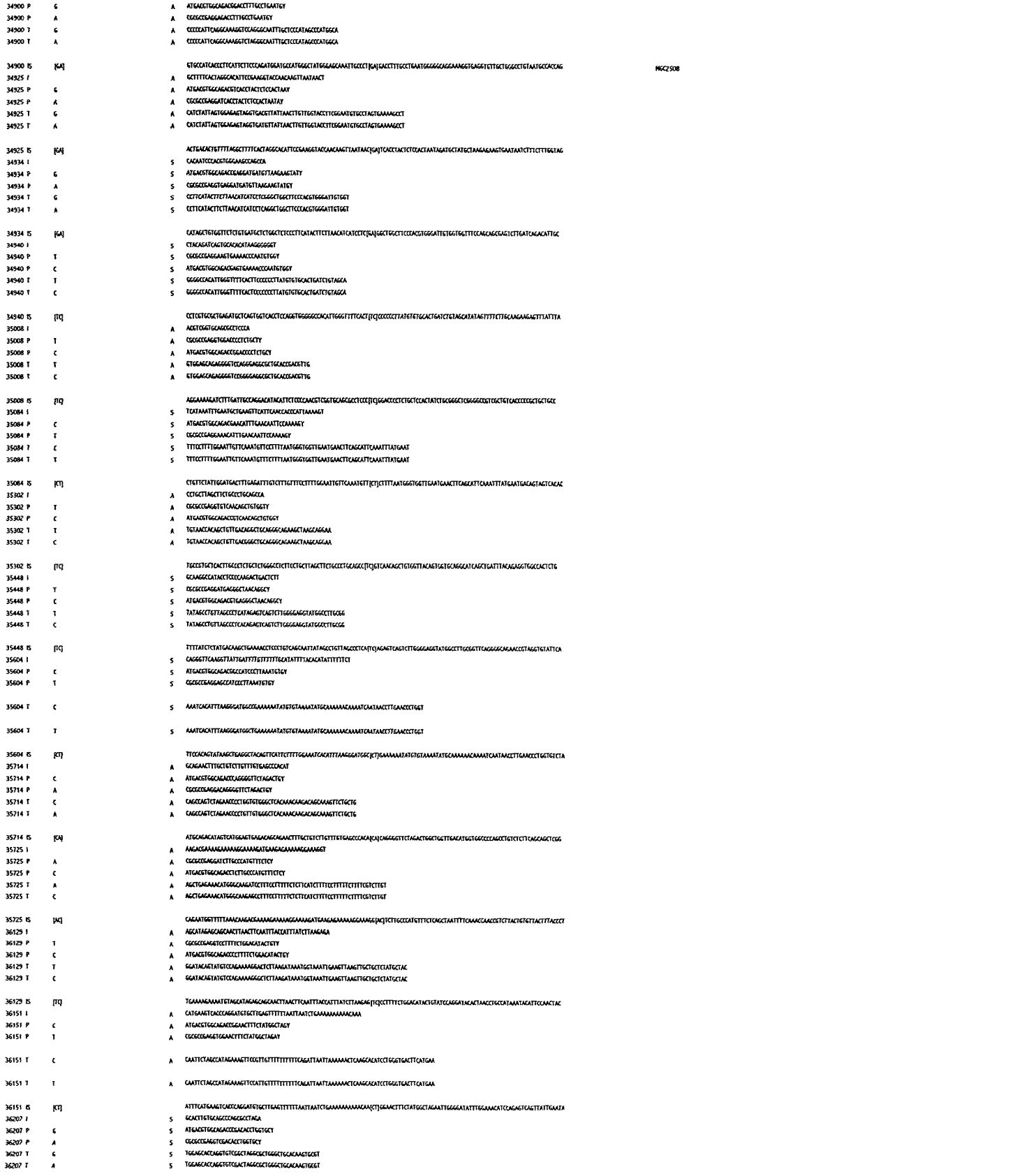

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FIGURE 129F

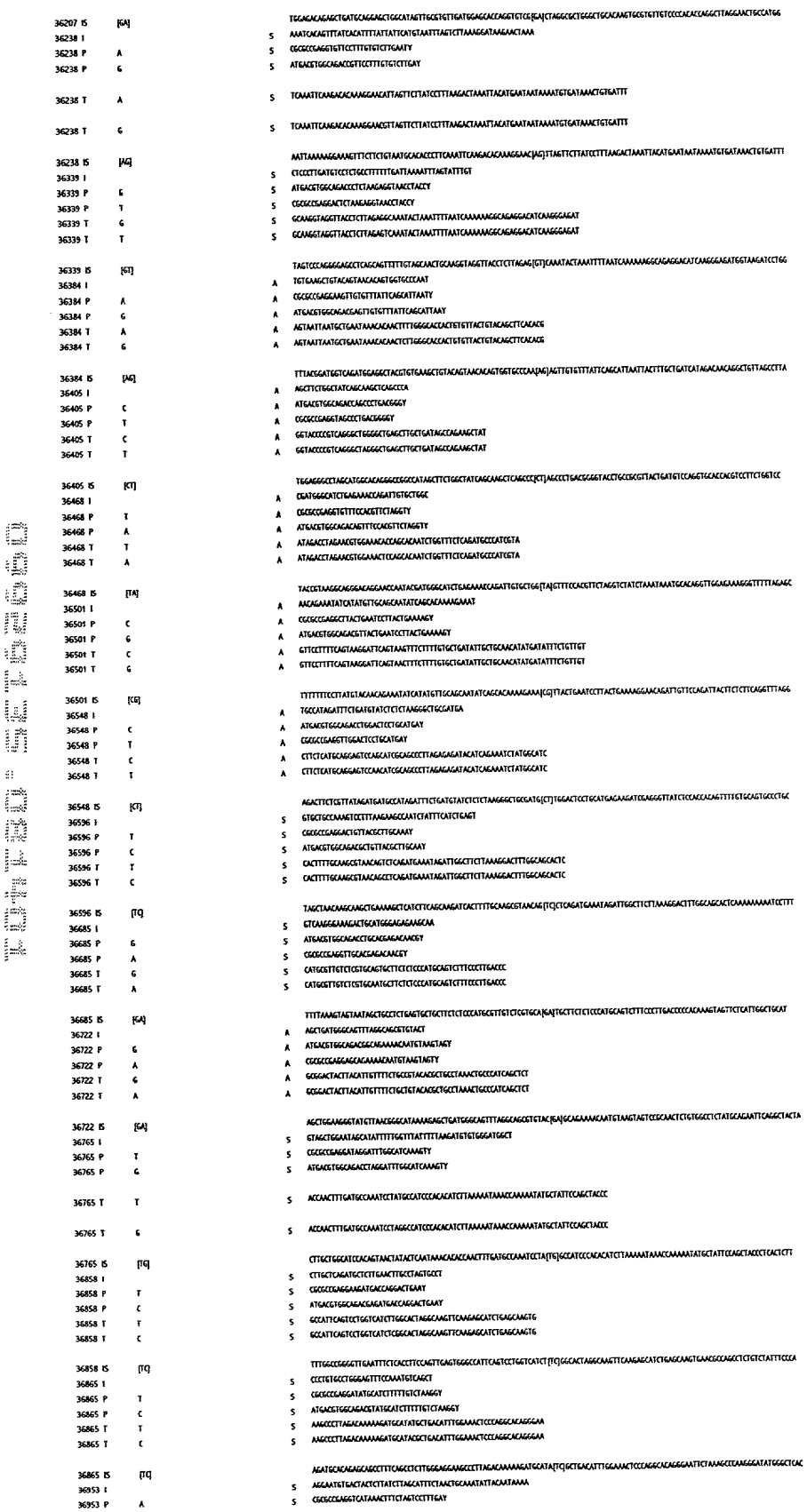
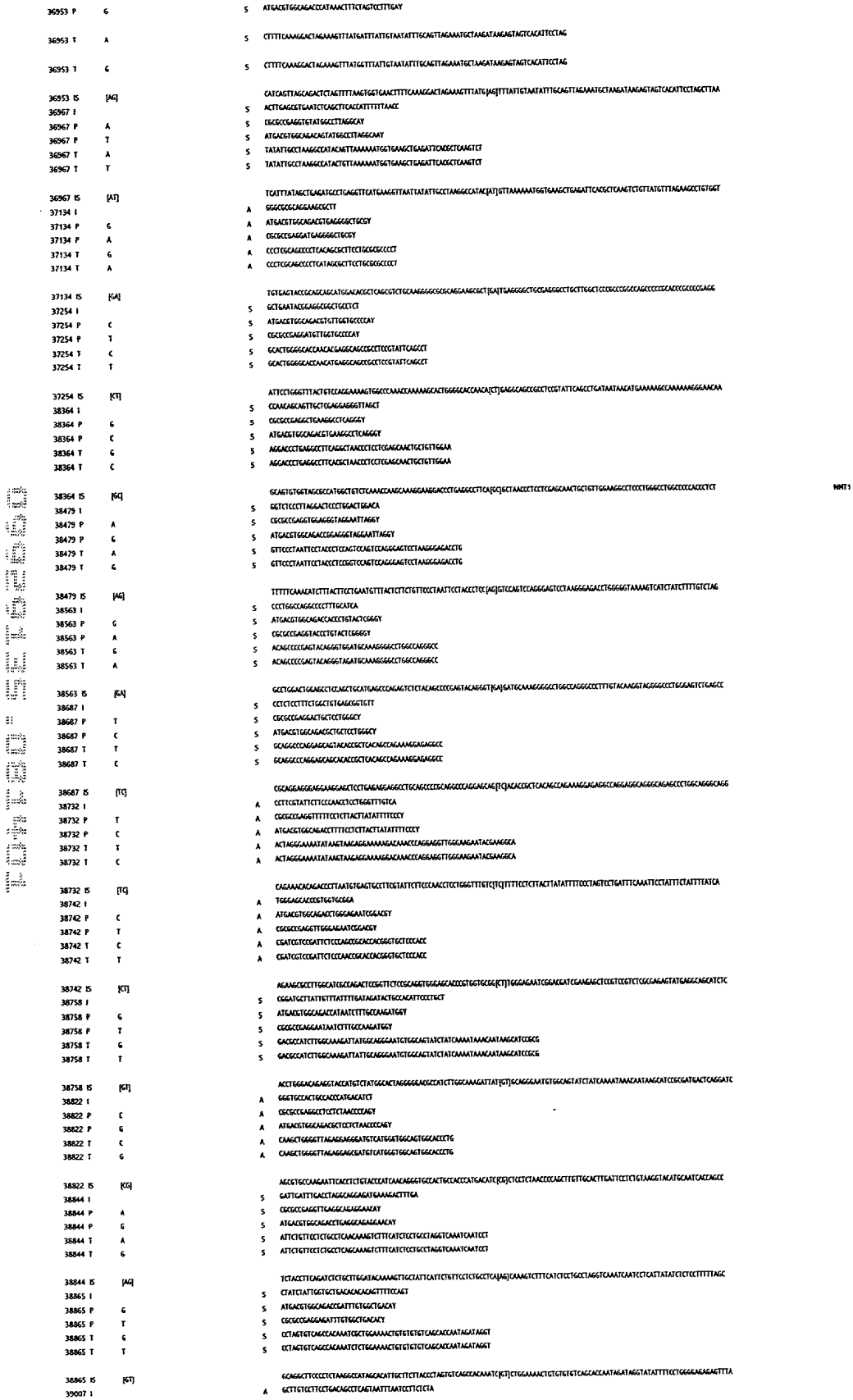
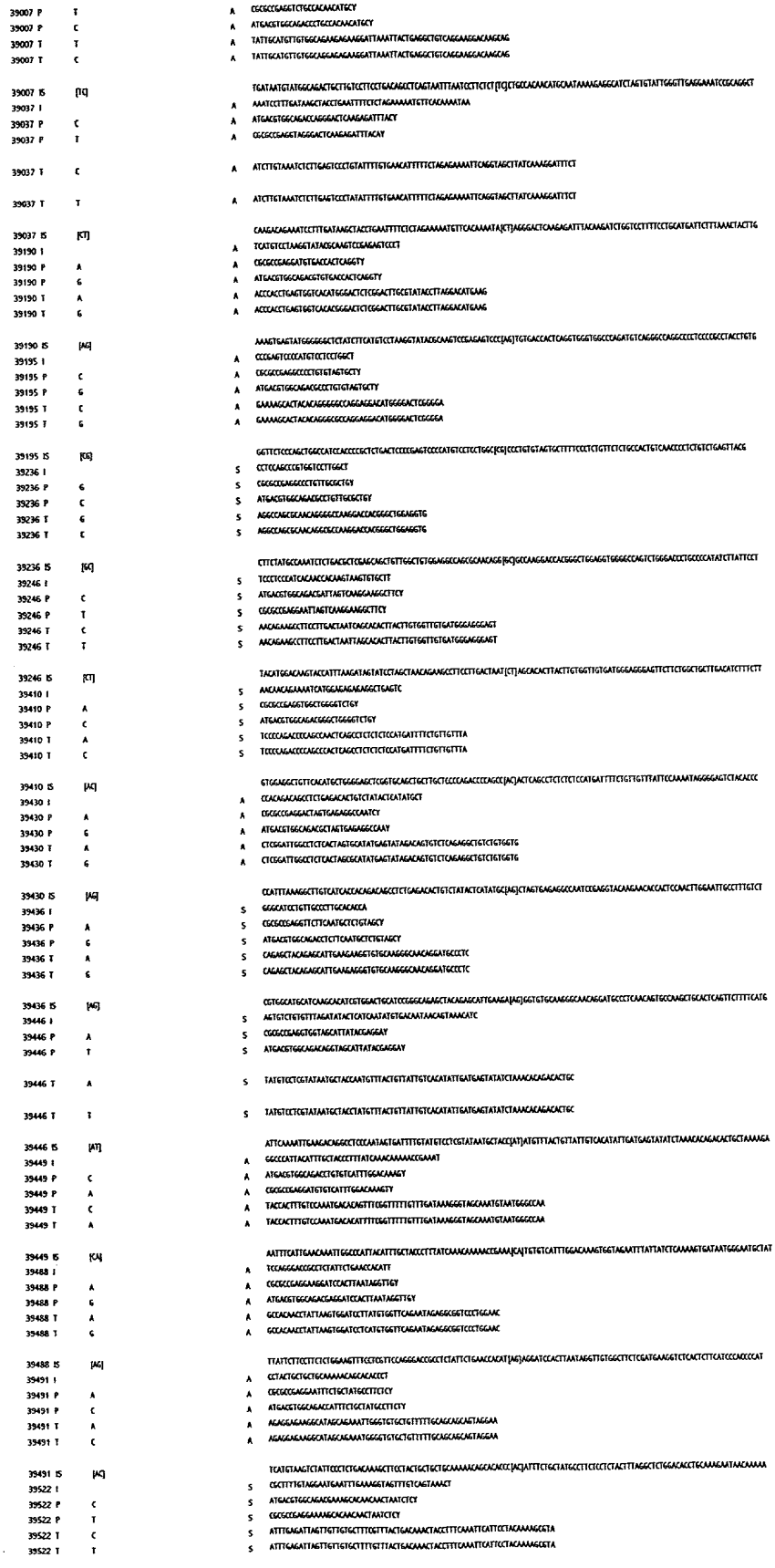

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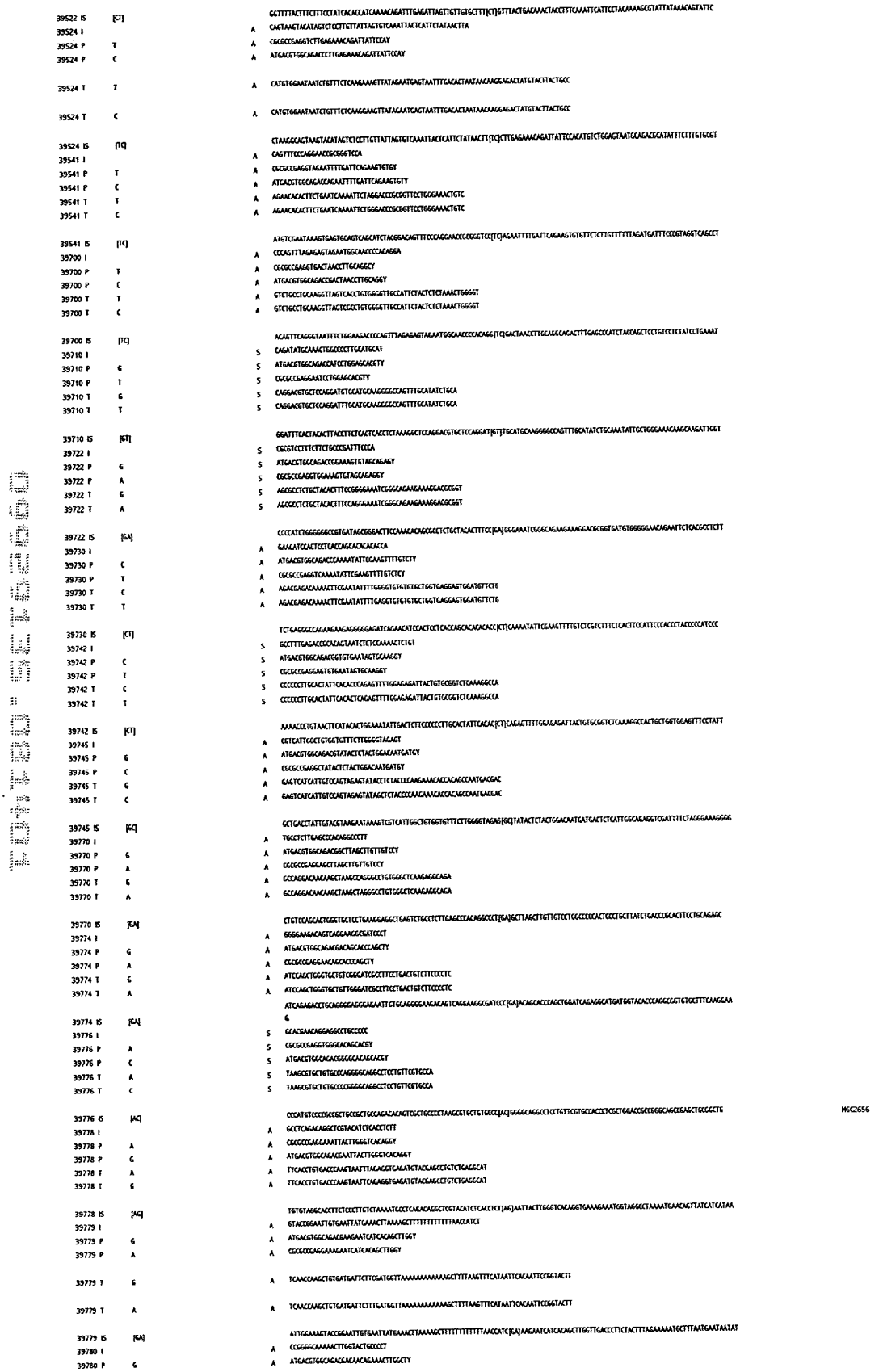
FIGURE 129F



Applied Biosystems, Inc. Patent Application

FIGURE 129F





Docket No. 10191-2000-999

FIGURE 129F

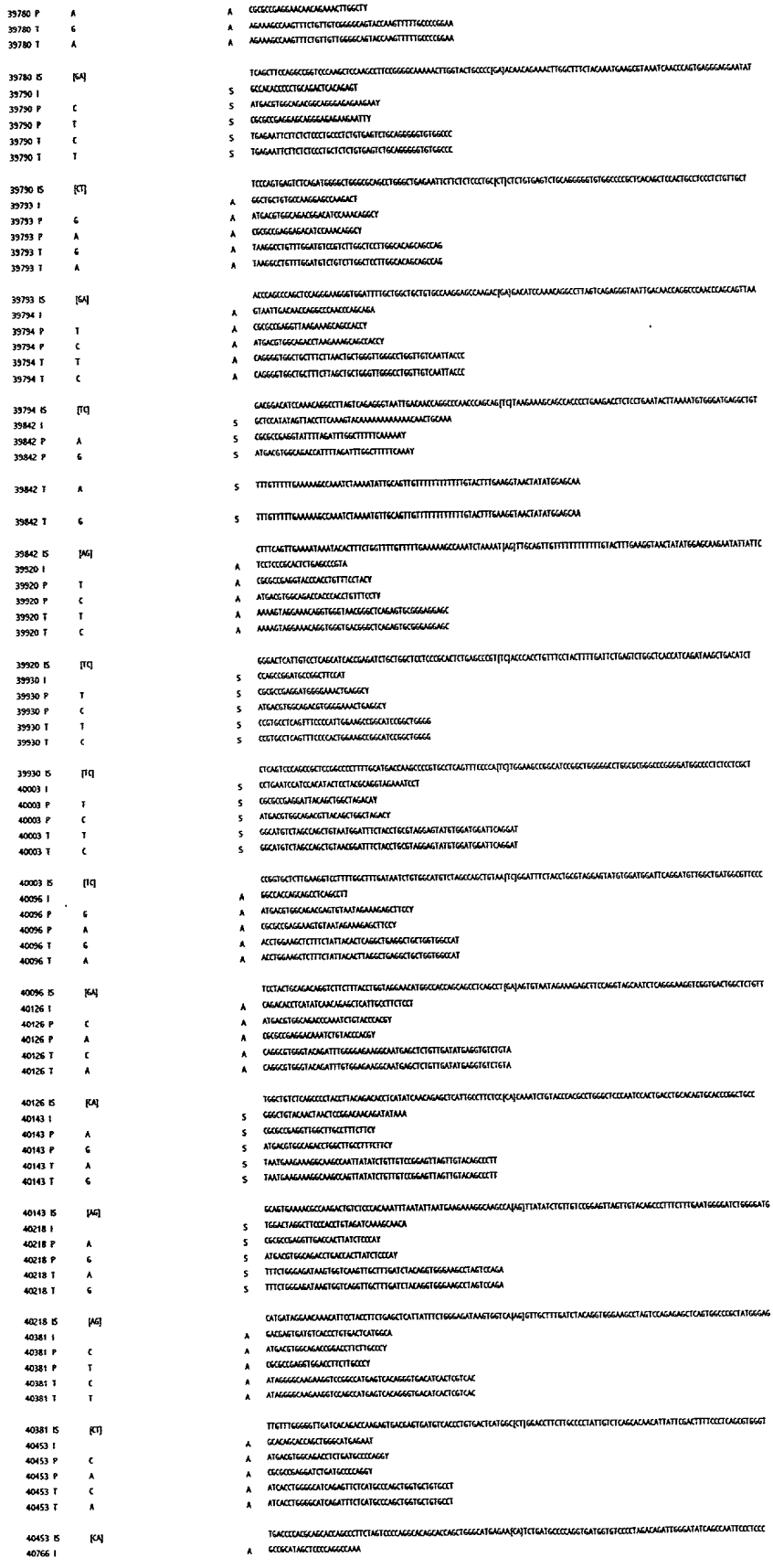


FIGURE 129F

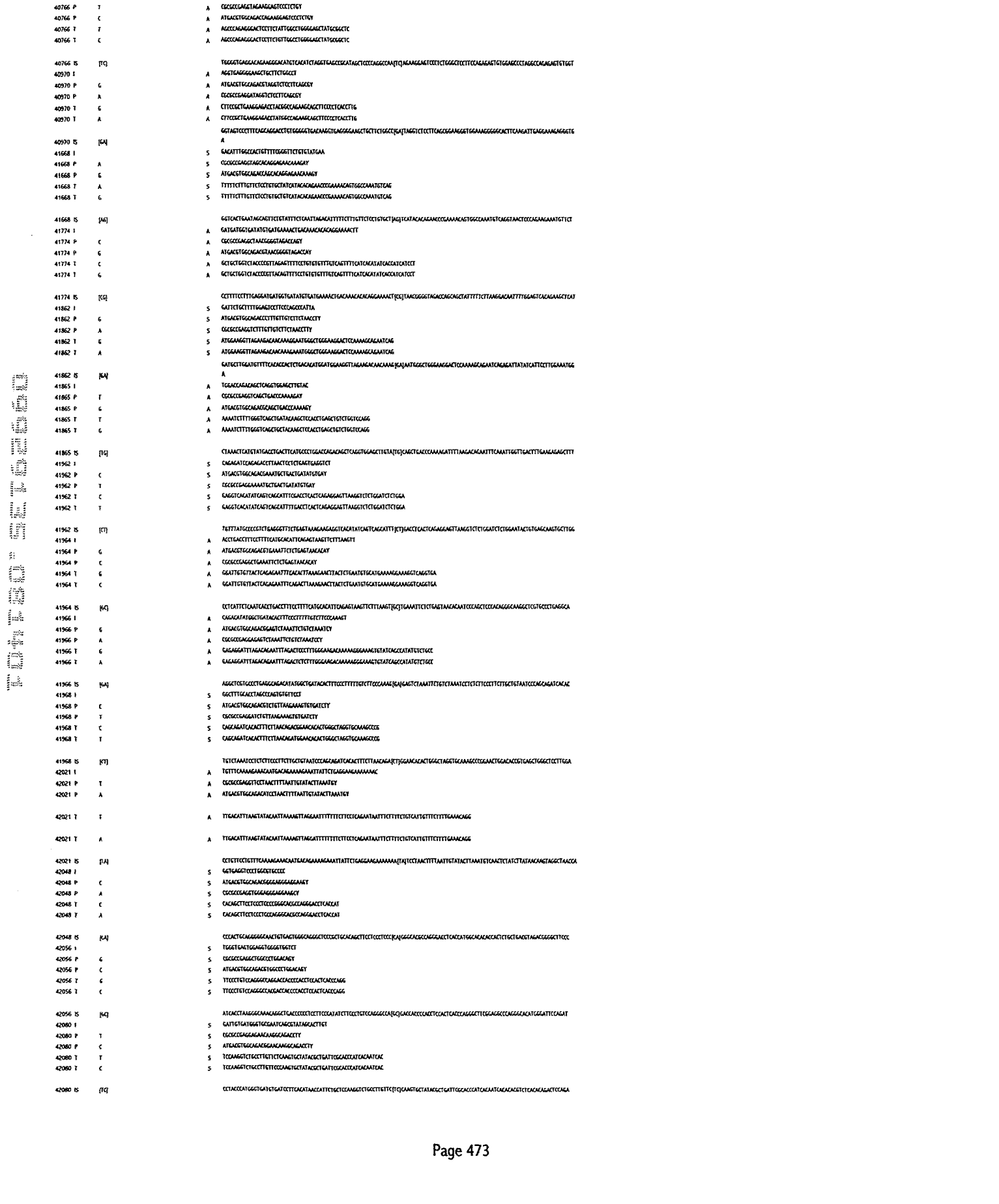
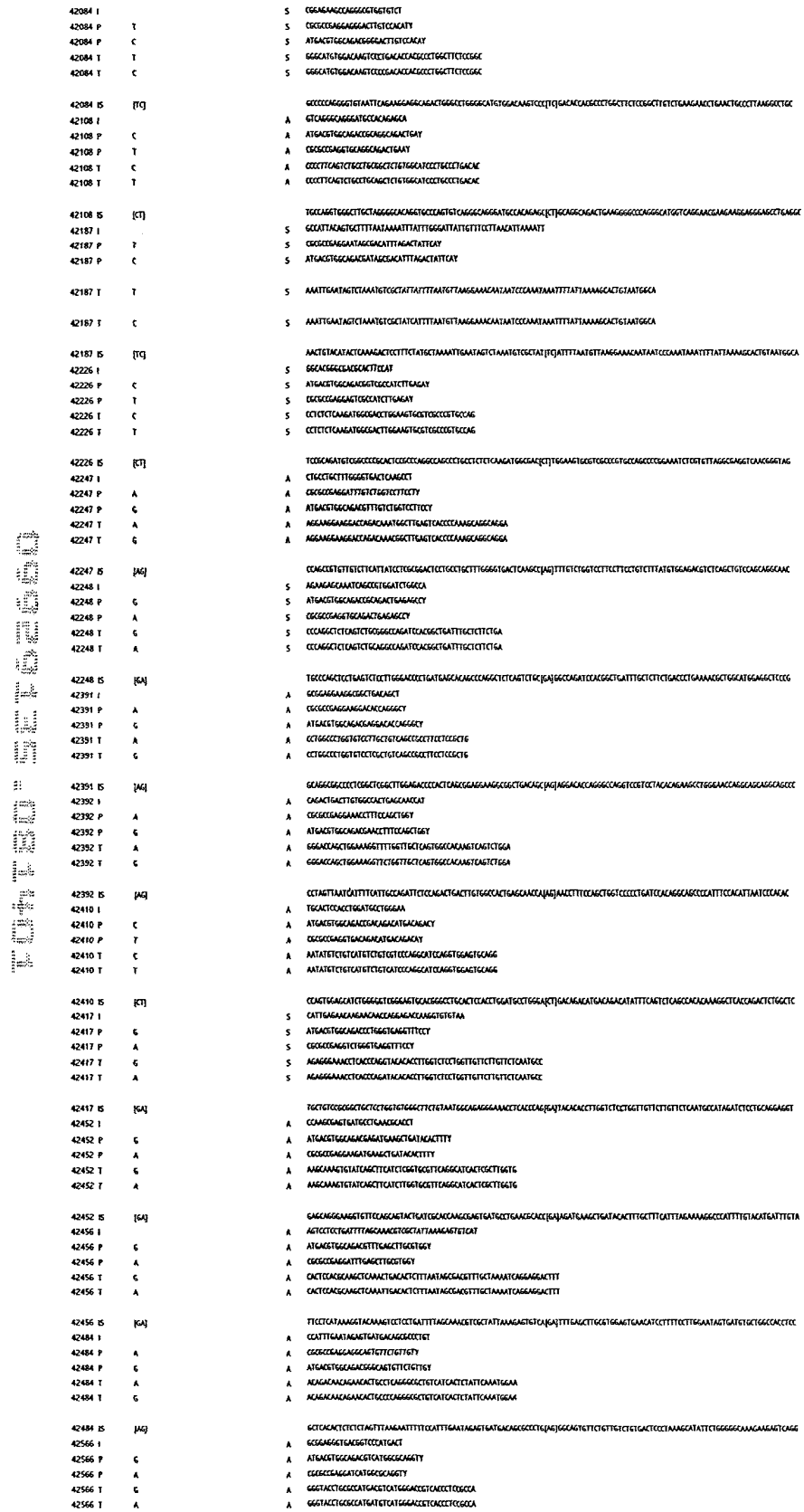


FIGURE 129F



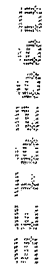


FIGURE 129F

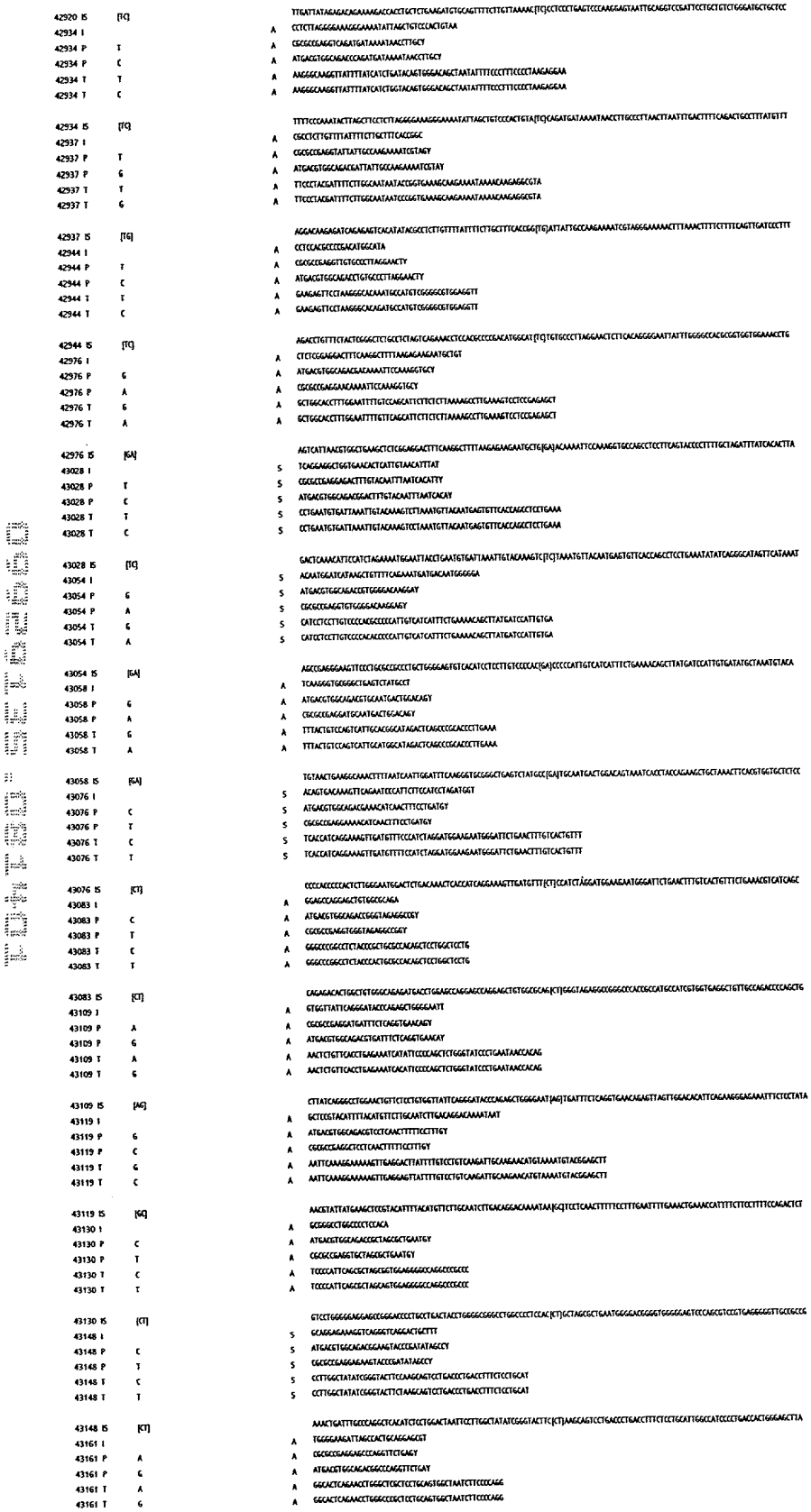
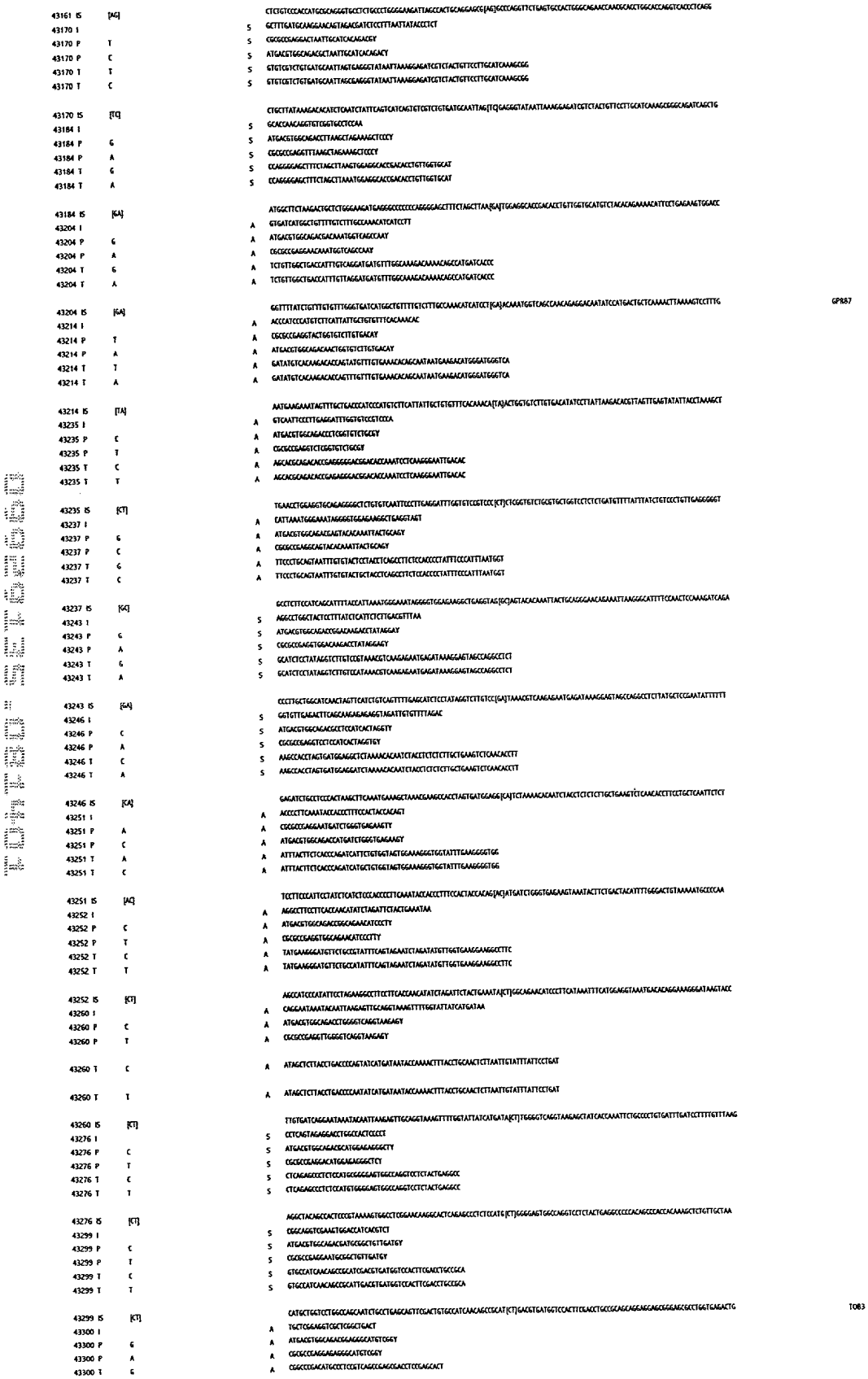
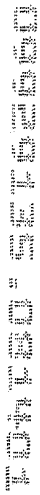


FIGURE 129F





Confidential and Proprietary Information of Applera Corporation

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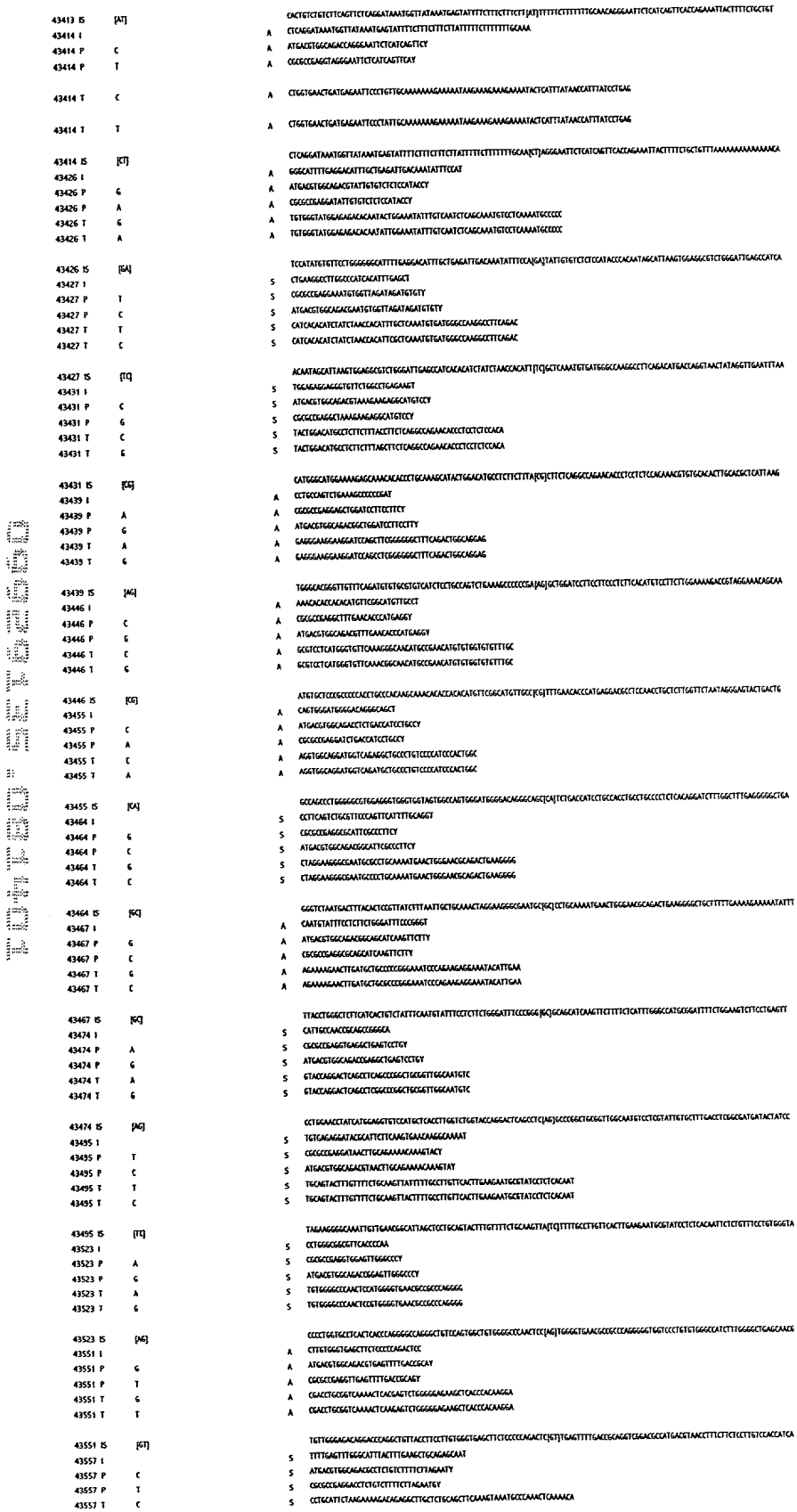


FIGURE 129F

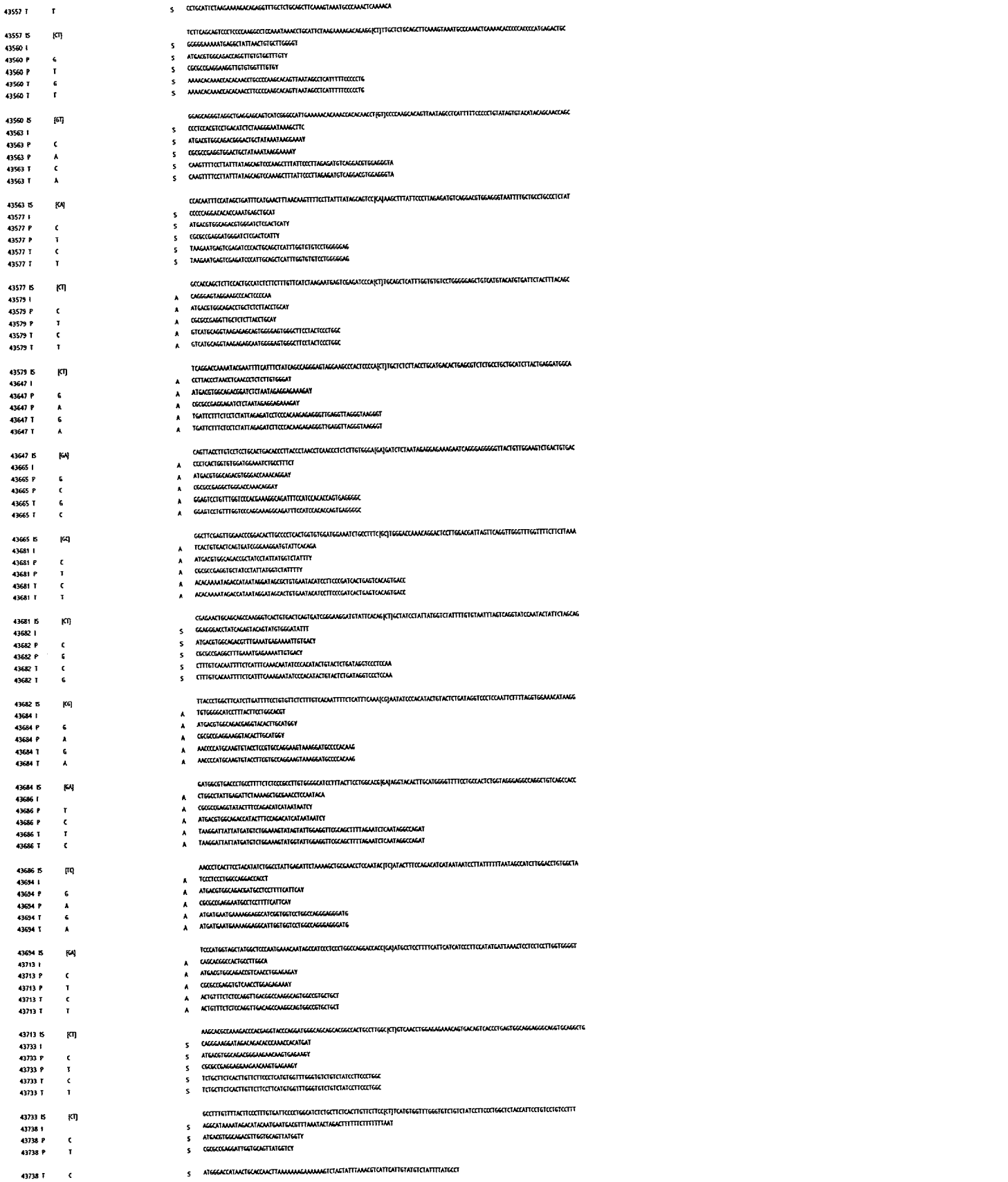
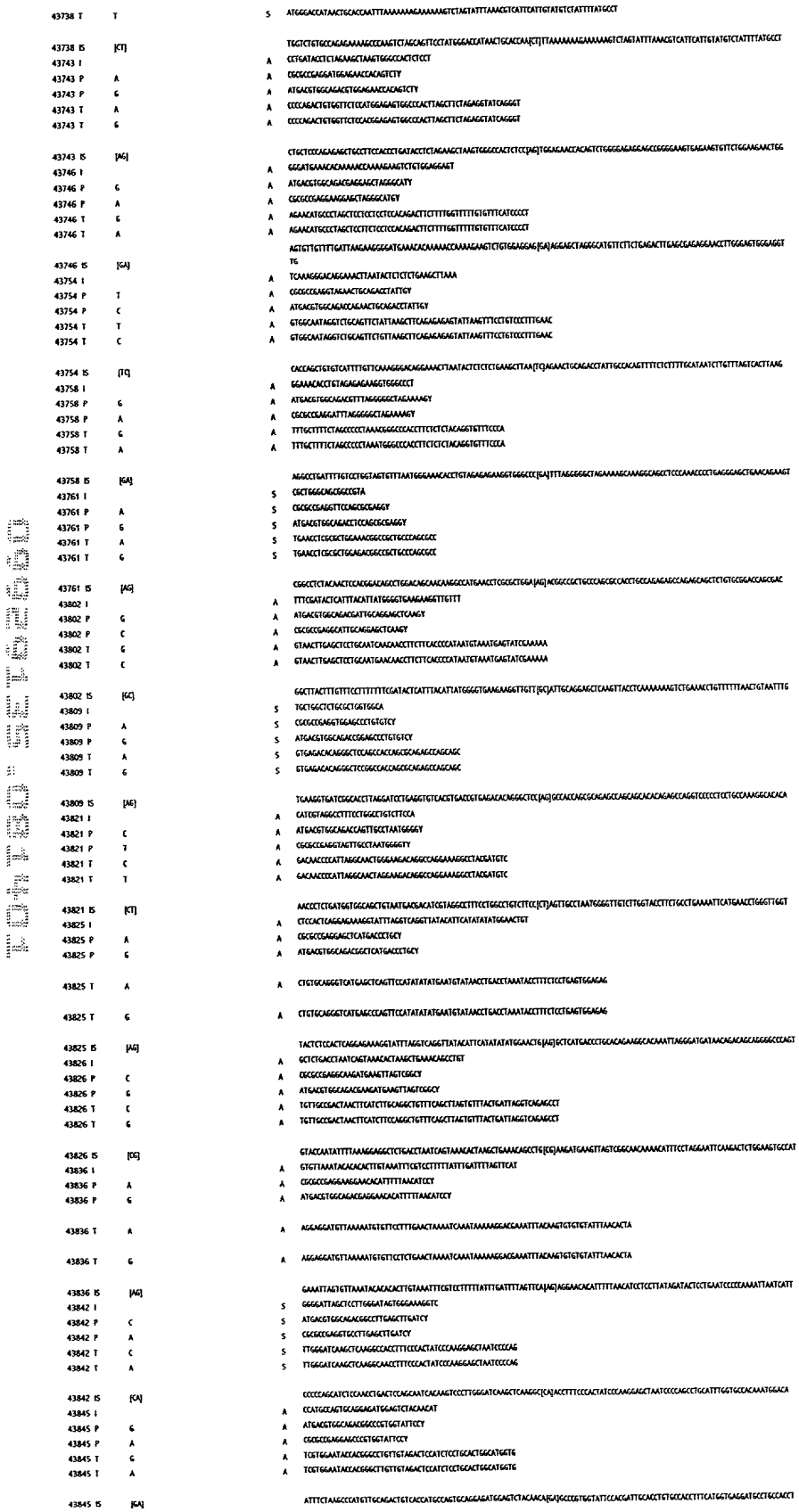


FIGURE 129F



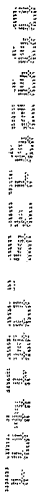


FIGURE 129F

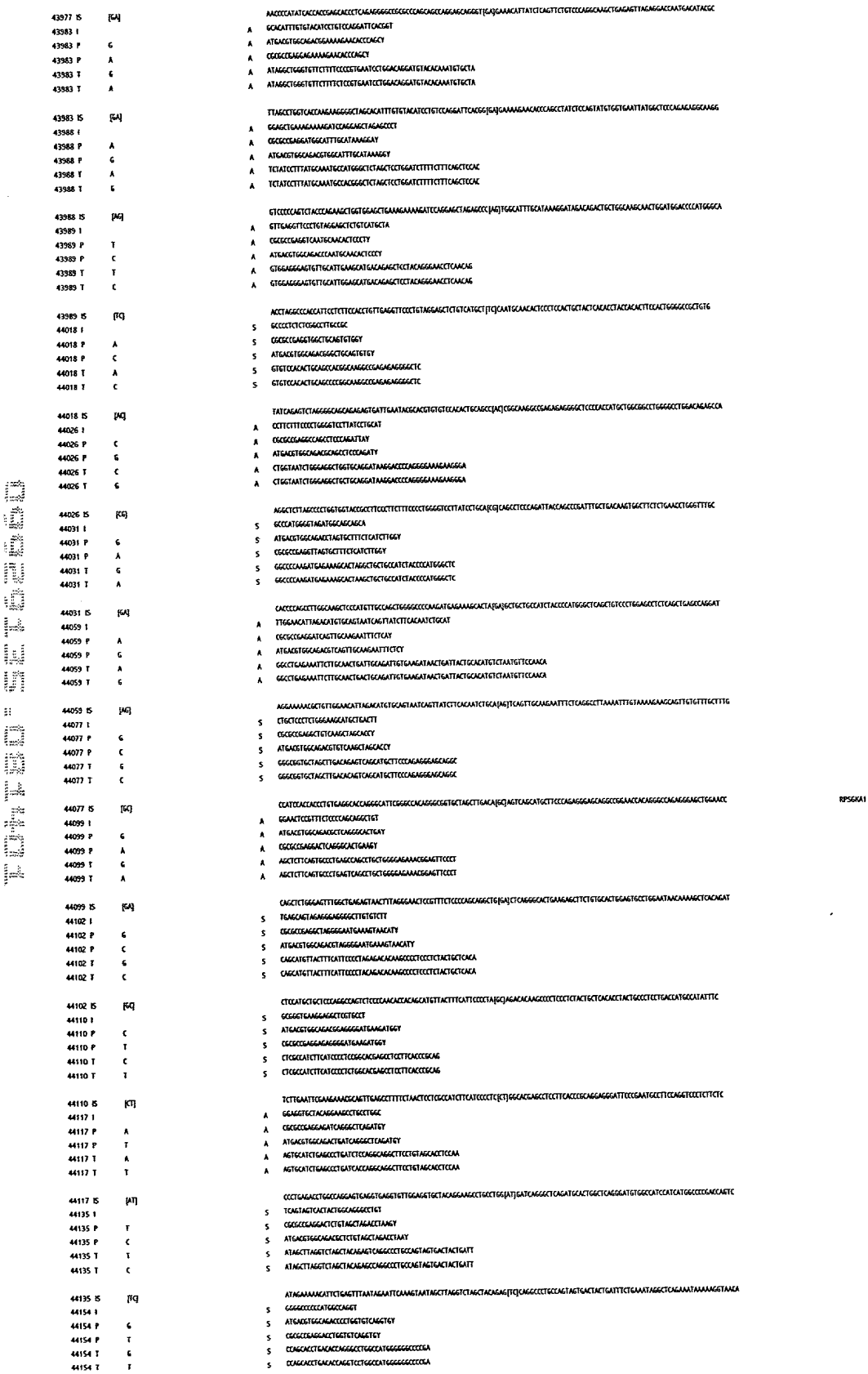


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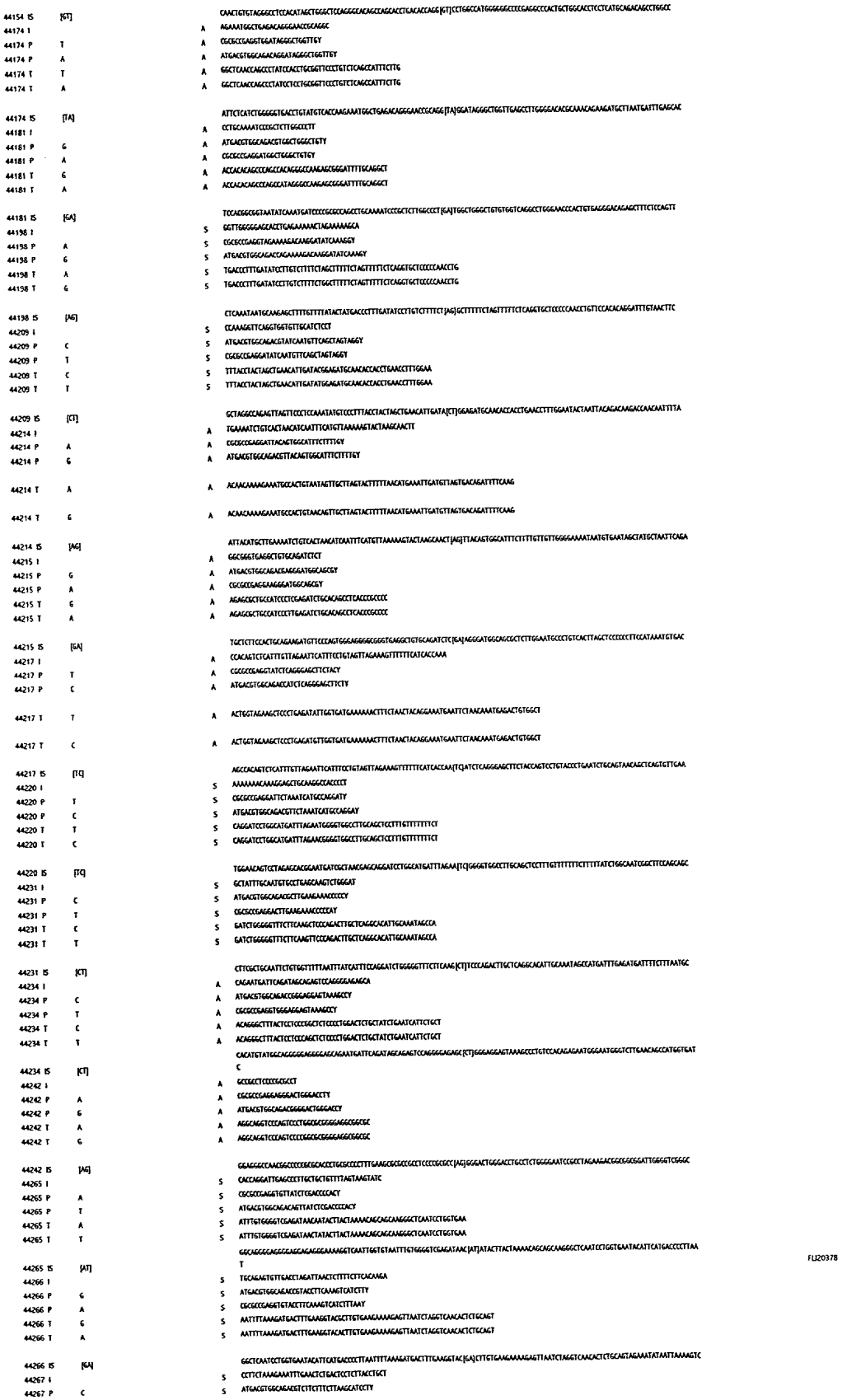
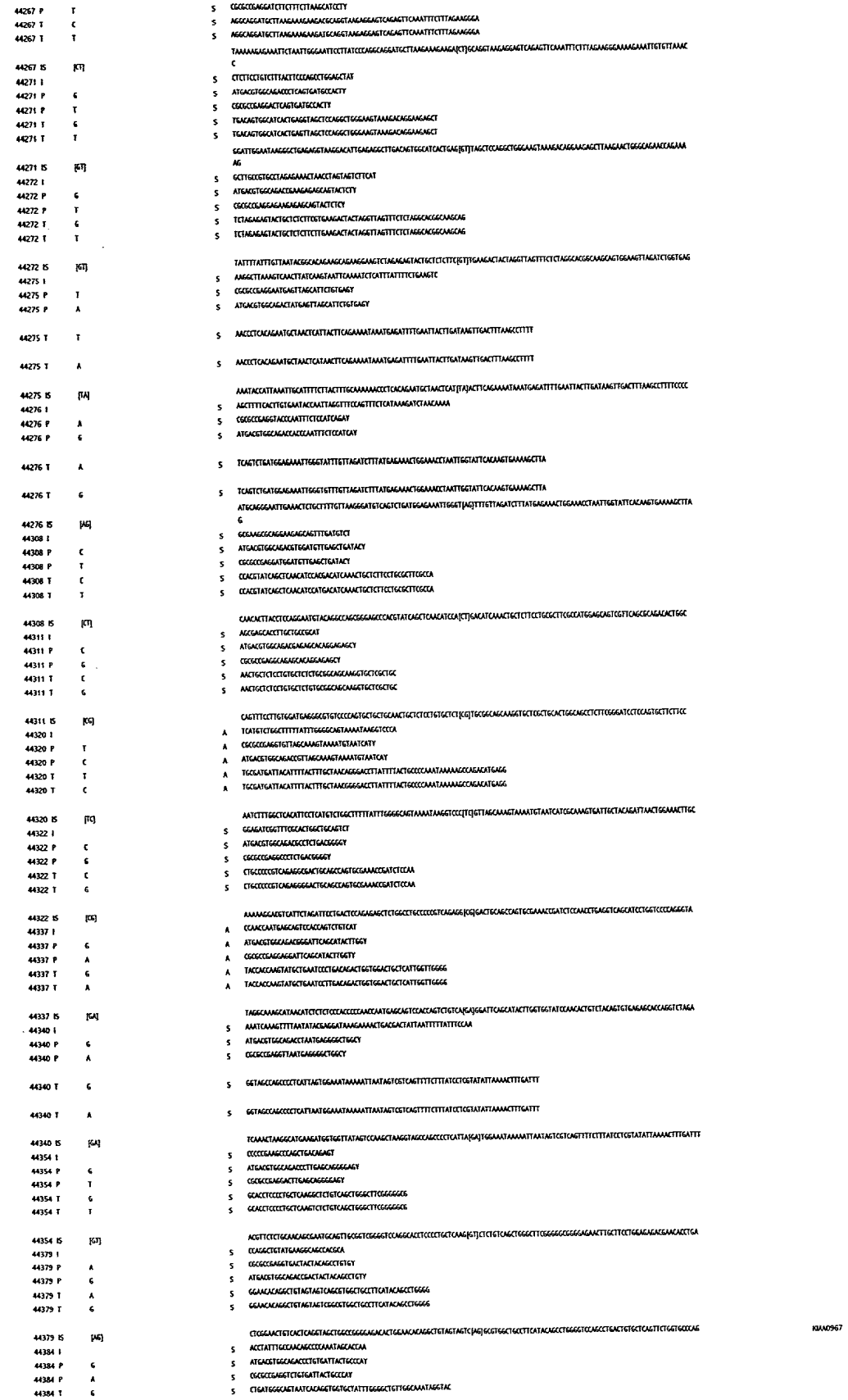


FIGURE 129F



KIAA0967

FIGURE 129F

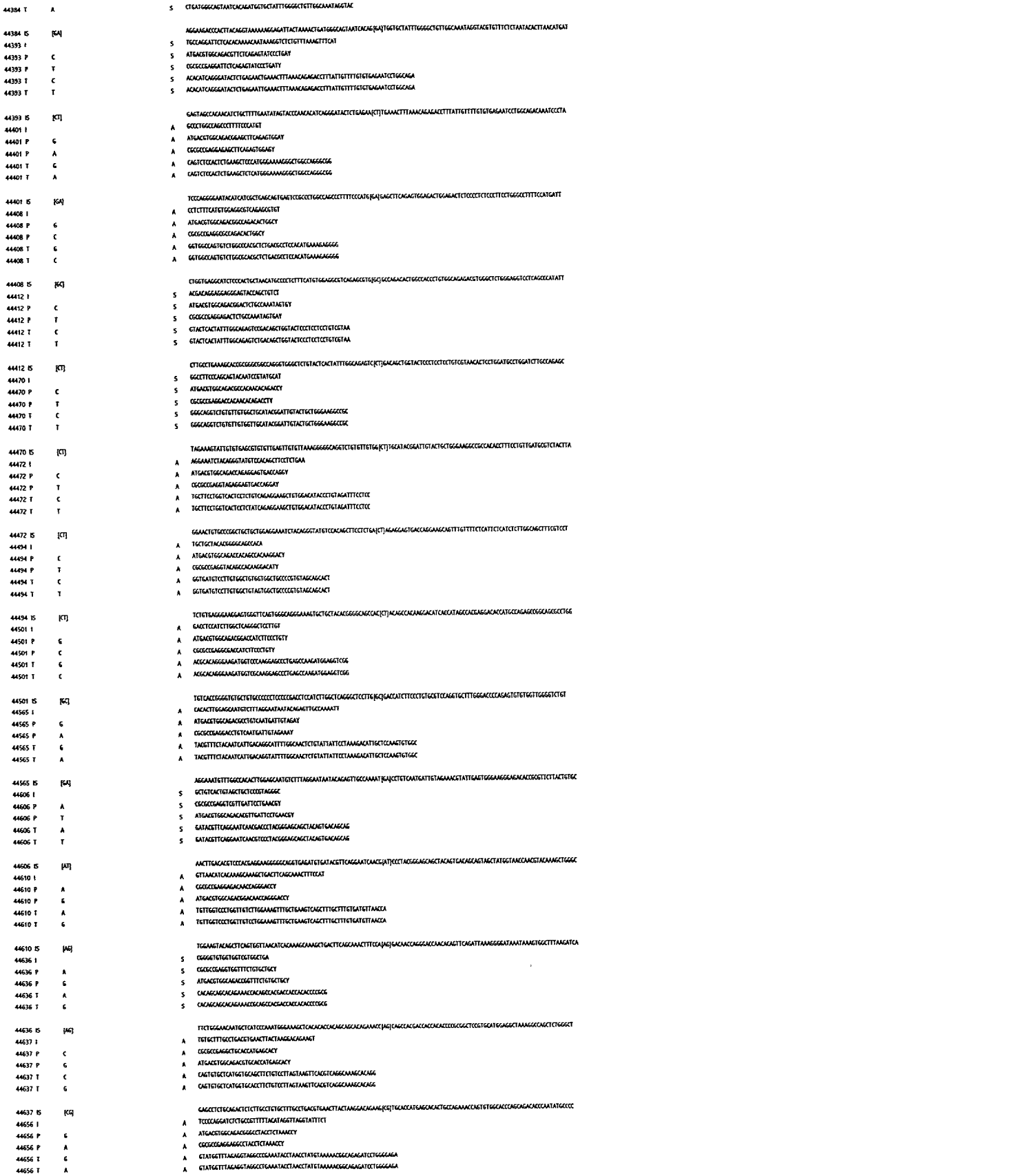


FIGURE 129F

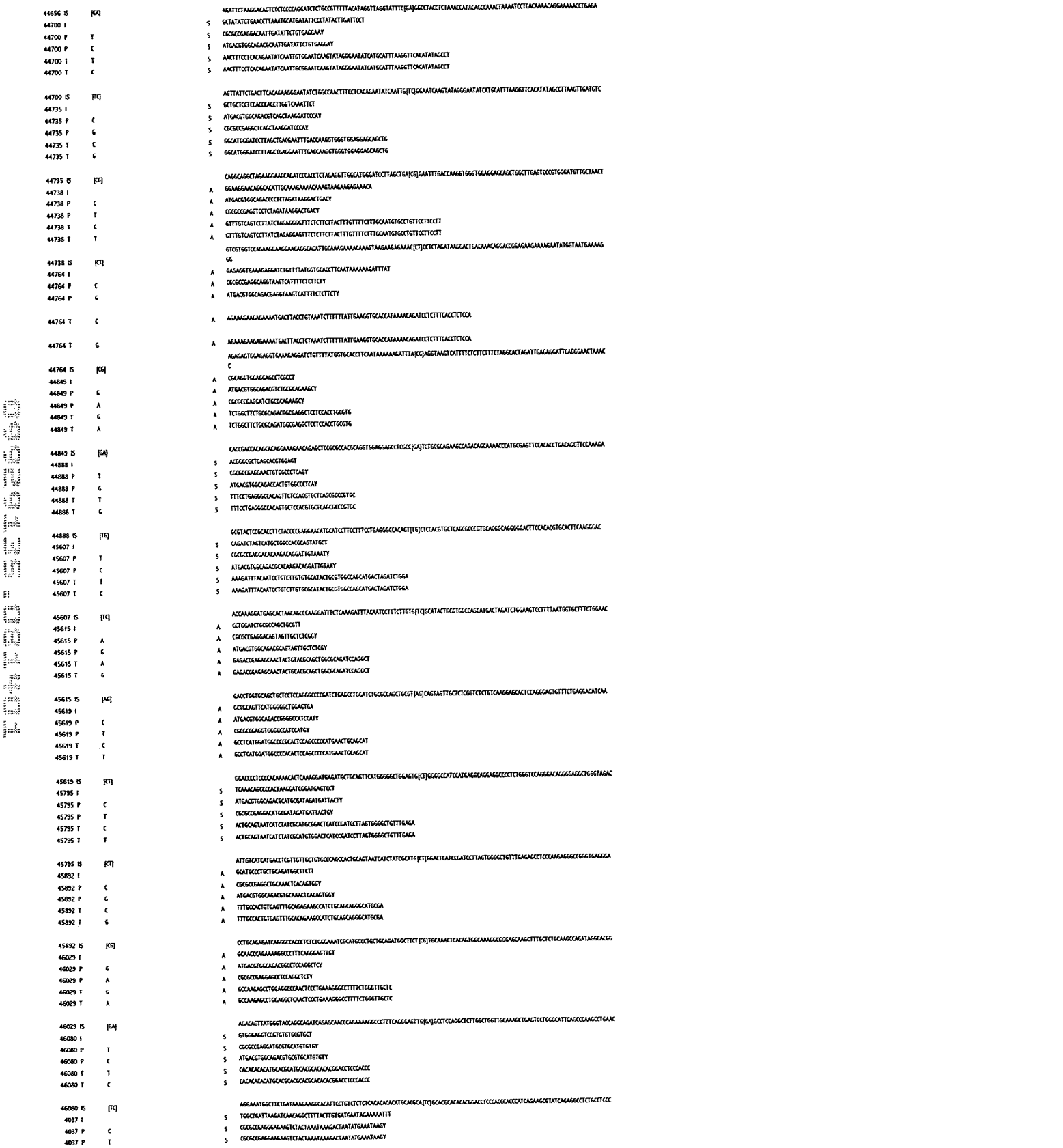


FIGURE 129F

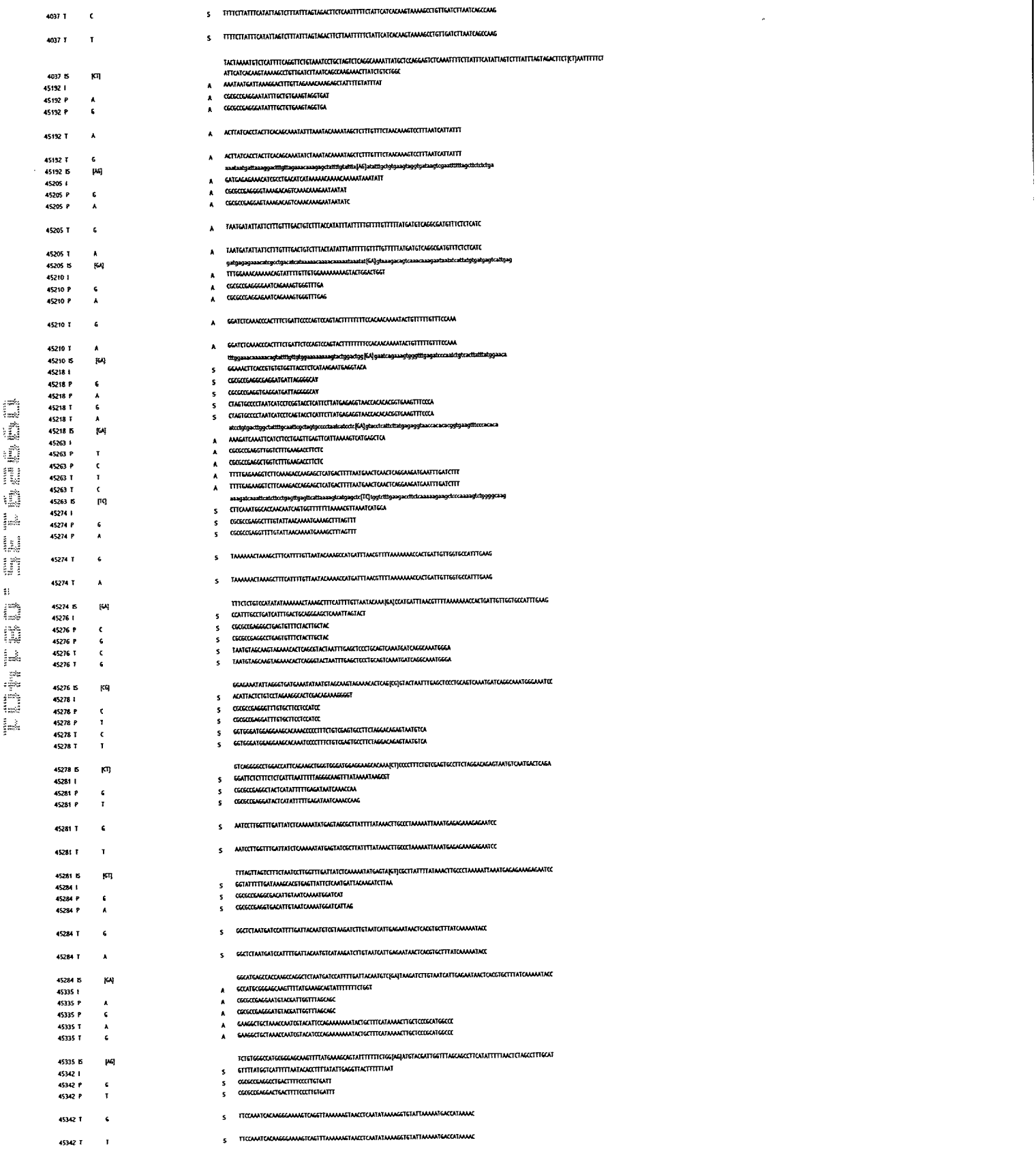
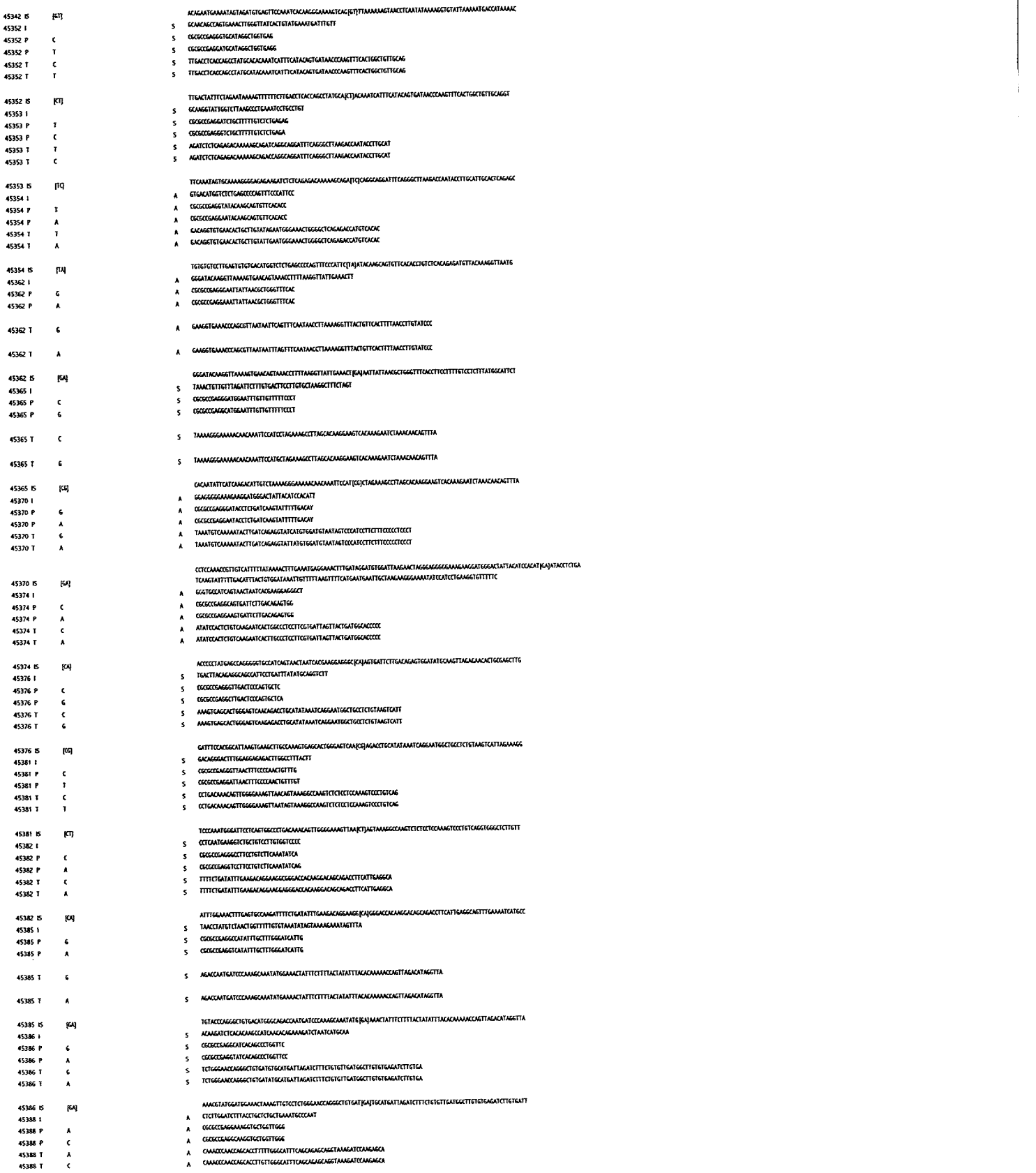

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4037 IS [CT] ATTCATCACAAGTAAAAGCCTGTTGATCTTAATCAGCCAAGAAACTTATCTGTCTGGC
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45192 P G A CGCGCCGAGGGATATTTGCTGTGAAGTAGGTGA
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45205 P A A CGCGCCGAGGAGTAAAGACAGTCAAACAAAGAATAATATC
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45210 P A A CGCGCCGAGGAGAATCAGAAAGTGGGTTTGAG
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45210 T A A GGATCTCAAACCCACTTTCTGATTCTCCAGTCCAGTACTTTTTTTTCCACAACAAAATACTGTTTTTGTTTCCAAA
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45263 T T A TTTTGAGAAGGTCTTCAAAGACCAAGAGCTCATGACTTTTAATGAACTCAACTCAGGAAGATGAATTTGATCTTT
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45263 IS [TC] aaagatcaaattcatcttcctgagttgagttcattaaaagtcatgagctc[TC]tggtctttgaaagaccttctcaaaaagaagctcccaaaagtcctggggcaag
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45274 P G S CGCGCCGAGGCTTTGTATTAACAAAATGAAAGCTTTAGTTT
45274 P A S CGCGCCGAGGTTTGTATTAACAAAATGAAAGCTTTAGTTT
45274 T G S TAAAAACTAAAGCTTTCATTTTGTTAATACAAAGCCATGATTTAACGTTTTAAAAAAACCACTGATTGTTGGTGCCATTTGAAG
45274 T A S TAAAAACTAAAGCTTTCATTTTGTTAATACAAACCATGATTTAACGTTTTAAAAAAACCACTGATTGTTGGTGCCATTTGAAG
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45276 I S CCATTTGCCTGATCATTTGACTGCAGGGAGCTCAAATTAGTACT
45276 P C S CGCGCCGAGGGCTGAGTGTTTCTACTTGCTAC
45276 P G S CGCGCCGAGGCCTGAGTGTTTCTACTTGCTAC
45276 T C S TAATGTAGCAAGTAGAAACACTCAGCGTACTAATTTGAGCTCCCTGCAGTCAAATGATCAGGCAAATGGGA
45276 T G S TAATGTAGCAAGTAGAAACACTCAGGGTACTAATTTGAGCTCCCTGCAGTCAAATGATCAGGCAAATGGGA
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45278 P T S CGCGCCGAGGATTTGTGCTTCCTCCATCC
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45278 IS [CT] GTCAGGGGCCTGGACCATTCAGAAGCTGGGTGGGATGGAGGAAGCACAAA[CT]CCCCTTTCTGTCGAGTGCCTTCTAGGACAGAGTAATGTCAATGACTCAGA
45281 I S GGATTCTCTTTCTCTGATTTAATTTTTAGGGCAAGTTTATAAAATAAGGGT
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45281 P T S CGCGCCGAGGATACTCATATTTTTGAGATAATCAAACCAAG
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45335 T G A GAAGGCTGCTAAACAATCGTACATCCCAGAAAAAAATACTGCTTTCATAAAACTTGCTCCCGCATGGCCC
45335 IS [AG] TCTGTGGGCCATGCGGGAGCAAGTTTTATGAAAGCAGTATTTTTTTCTGG[AG]ATGTACAATTGGTTTAGCAGCCTTCATATTTTTAACTCTAGCCTTTGCAT
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45342 P G S CGGCCCGAGGCCTGACTTTTCCCTTGTGATT
45342 P T S CGGCCCGAGGACTGACTTTTCCCTTGTGATTT
45342 T G S TTCCAAATCACAAGGCAAAAGTCAGGTTAAAAAAGTAACCTCAATATAAAAGGTGTATTAAAAATGACCATAAAAC
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FIGURE 129F



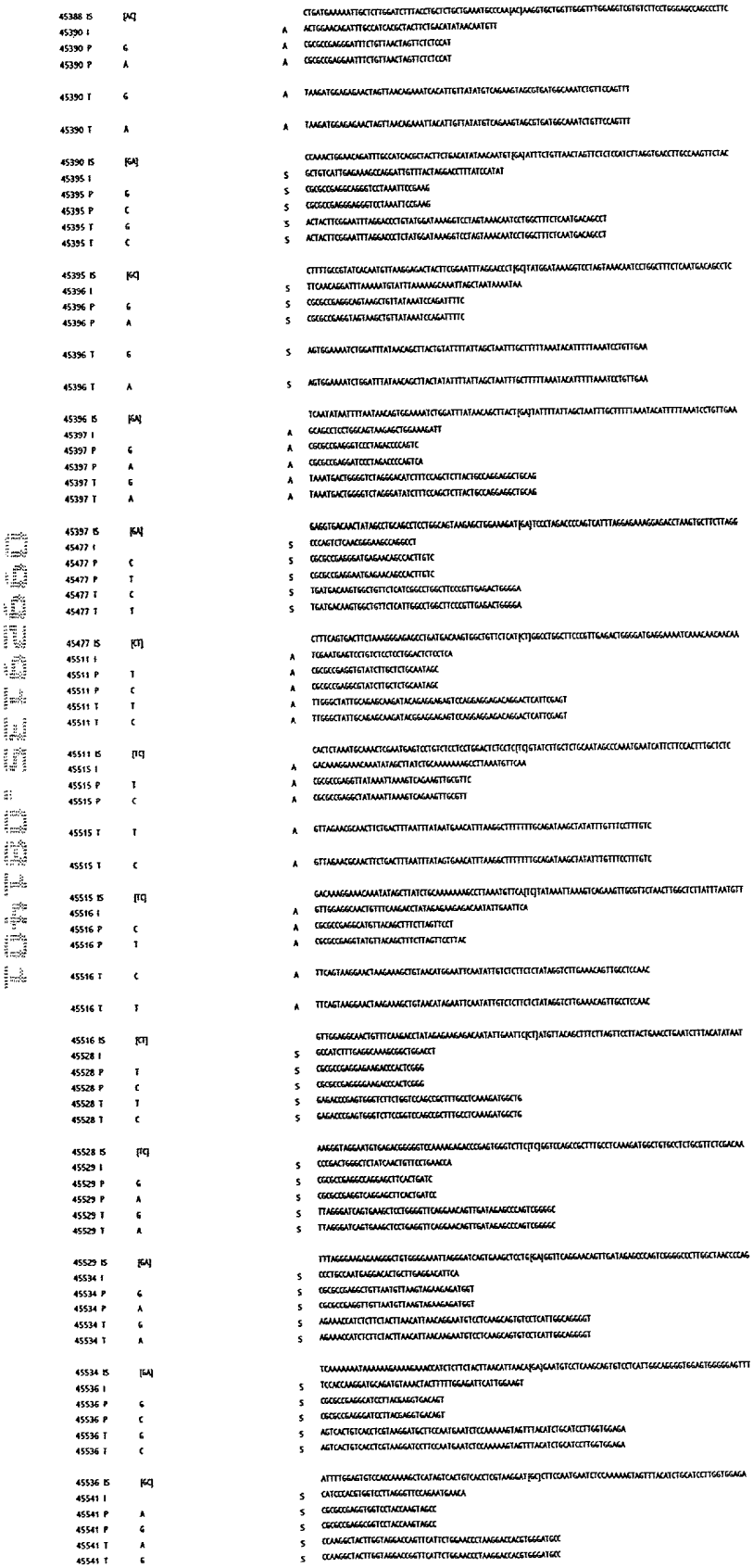
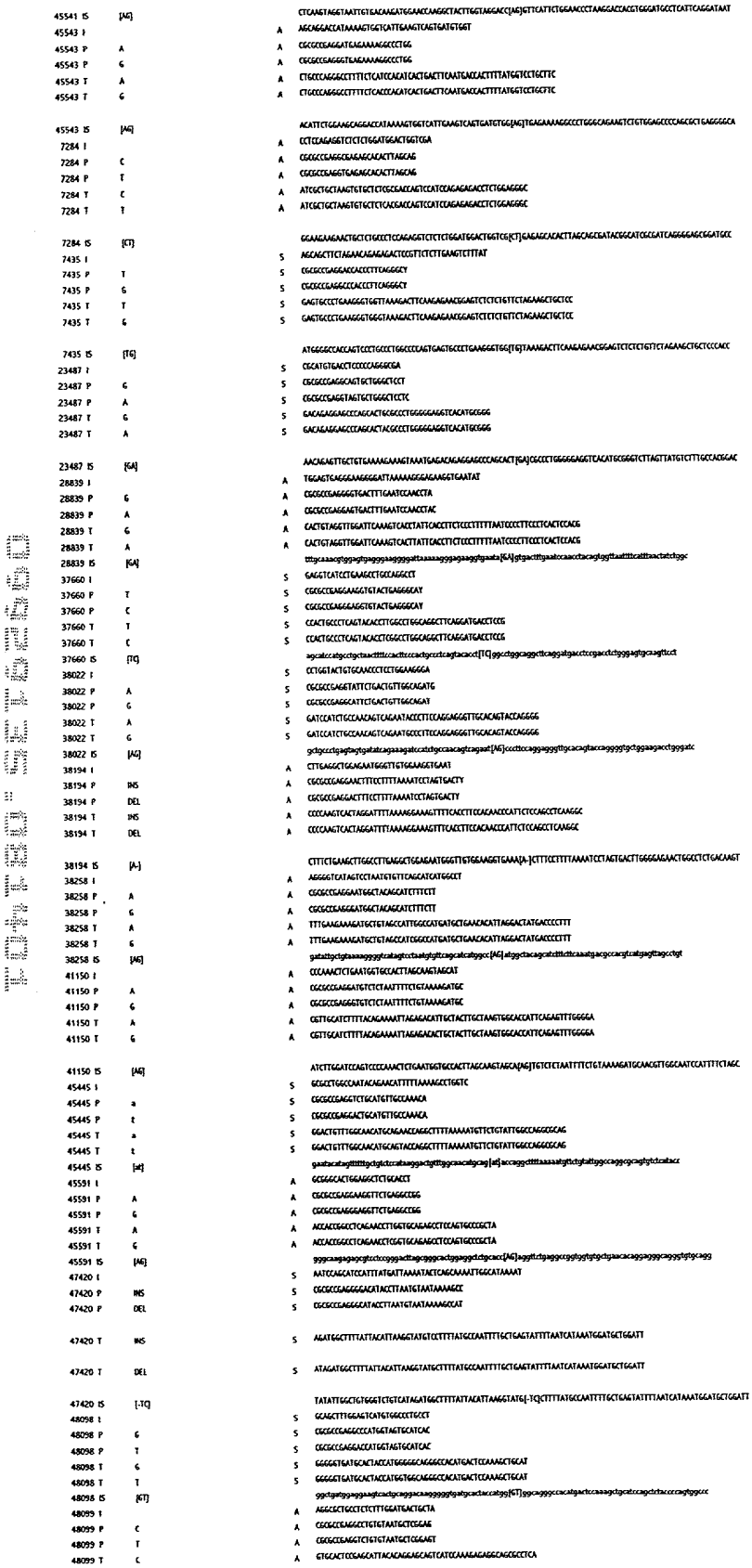

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45390 P G A CGCGCCGAGGAATTTCTGTTAACTAGTTCTCTCCAT
45390 P A A CGCGCCGAGGAATTTCTGTTAACTAGTTCTCTCCAT
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45395 P C S CGCGCCGAGGGAGGGTCCTAAATTCCGAAG
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45397 P A A CGCGCCGAGGATCCCTAGACCCCAGTCA
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45477 P C S CGCGCCCAGGGATGAGAACAGCCACTTGTC
45477 P T S CGCGCCGAGGAATGAGAACAGCCACTTGTC
45477 T C S TGATGACAAGTGGCTGTTCTCATCGGCCTGGCTTCCCGTTGAGACTGGGGA
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45515 I A GACAAAGGAAACAAATATAGCTTATCTGCAAAAAAAGCCTTAAATGTTCAA
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45515 P C A CGCGCCGAGGCTATAAATTAAAGTCAGAAGTTGCGTT
45515 T T A GTTAGAACGCAACTTCTGACTTTAATTTATAATGAACATTTAAGGCTTTTTTGCAGATAAGCTATATTTGTTCCTTTGTC
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45515 IS [TC] GACAAAGGAAACAAATATAGCTTATCTGCAAAAAAAGCCTTAAATGTTCA[TC]TATAAATTAAAGTCAGAAGTTGCGTTCTAACTTGGCTCTTATTTAATGTT
45516 I A GTTGGAAGCAACTGTTTCAAGACCTATAGAGAAGAGACAATATTGAATTCA
45516 P C A CGCGCCGAGGCATGTTACAGCTTTCTTAGTTCCT
45516 P T A CGCGCCGAGGTATGTTACAGCTTTCTTAGTTCCTTAC
45516 T C A TTCAGTAAGGAACTAAGAAAGCTGTAACATGGAATTCAATATTGTCTCTTCCTCTATAGGTCTTGAAACAGTTGGCTCCAAC
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45528 I S GCCATCTTTGAGGCAAAGGGCTGGACCT
45528 P T S CGCGCCGAGGAGAAGACCCACTCGGG
45528 P C S CGCGCCGAGGGAAGACCCACTCGGG
45528 T T S GAGACCGAGTGGCTCTTCTGGTCCAGCCGCTTTGCCTCAAAGATGGCTG
45528 T C S GAGACCCGAGTGGGTCTTCCGGTCCAGCCGCTTTGCCTCAAAGATGGCTG
45528 IS [TC] AAGGGTAGGAATGTGAGACGGGGGTCCAAAACAGACCCGAGTGGGTCTTC[TC]GGTCCAGCCGCTTTGCCTCAAAGATGGCTGTGCCTCTGCGTTCTCGACAA
45529 I S CCCGACTGGGCTCTATCAACTGTTCCTGAACCA
45529 P G S CCCCCCGAGGCCAGGAGCTTCACTGATC
45529 P A S CGCGCCGAGGTCAGGAGCTTCACTGATCC
45529 T G S TTAGGGATCAGTGAAGCTCCTGGGGTTCAGGAACAGTTGATAGAGCCCAGTCGGGGC
45529 T A S TTAGGGATCAGTGAAGCTCCTGAGGTTCAGGAACAGTTGATAGAGCCCAGTCGGGGC
45529 IS [GA] TTTAGGGAAGAGAAGGGCTGTGGGGAAATTAGGGATCAGTGAAGCTCCTG[GA]GGTTCAGGAACAGTTGATAGAGCCCAGTCGGGGCCCTTGGCTAACCCAG
45534 I S CCCTGCCAATGAGGACACTGCTTGAGGACATTCA
45534 P G S CGCGCCGAGGCTGTTAATGTTAAGTAGAAGAGATGGT
45534 P A S CGCGCCGAGGTTGTTAATGTTAAGTAGAAGAGATGGT
45534 T G S AGAAACCATCTCTTCTACTTAACATTAACAGGAATGTCCTCAAGCAGTGTCCTCATTGGCAGGGGT
45534 T A S AGAAACCATCTCTTCTACTTAACATTAACAAGAATGTCCTCAAGCAGTGTCCTCATTGGCAGGGGT
45534 IS [GA] TCAAAAAAATAAAAAAGAAAAGAAACCATCTCTTCTACTTAACATTAACA[GA]CAATGTCCTCAAGCAGTGTCCTCATTGGCAGGGGTGGAGTGGGGGAGTTT
45536 I S TCCACCAAGGATGCAGATGTAAACTACTTTTTGGAGATTCATTGGAAGT
45536 P G S CGCGCCGAGGCATCCTTACGAGGTGACAGT
45536 P C S CGCGCCGAGGCATCCTTACGAGGTGACAGT
45536 T G S AGTCACTGTCACCTCGTAAGGATGCTTCCAATGAATCTCCAAAAAGTAGTTTACATCTGCATCCTTGGTGGAGA
45536 T C S AGTCACTGTCACCTCGTAAGGATCCTTCCAATGAATCTCCAAAAAGTAGTTTACATCTGCATCCTTGGTGGAGA
45536 IS [GC] ATTTTGGAGTGTCCACCAAAAGCTCATAGTCACTGTCACCTGGTAAGGAT[GC]CTTCCAATGAATCTCCAAAAAGTAGTTTACATCTGCATCCTTGGTGGAGA
45541 I S CATCCCACGTGGTCCTTAGGGTTCCAGAATGAACA
45541 P A S CGCGCCGAGCGGTCCTACCAAGTAGCC
45541 P G S CGCGCCGAGCGGTCCTACCAAGTAGCC
45541 T A S CCAAGGCTACTTGGTAGGACCAGTTCATTCTGGAACCCTAAGGACCACGTGGGATGCC
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FIGURE 129F



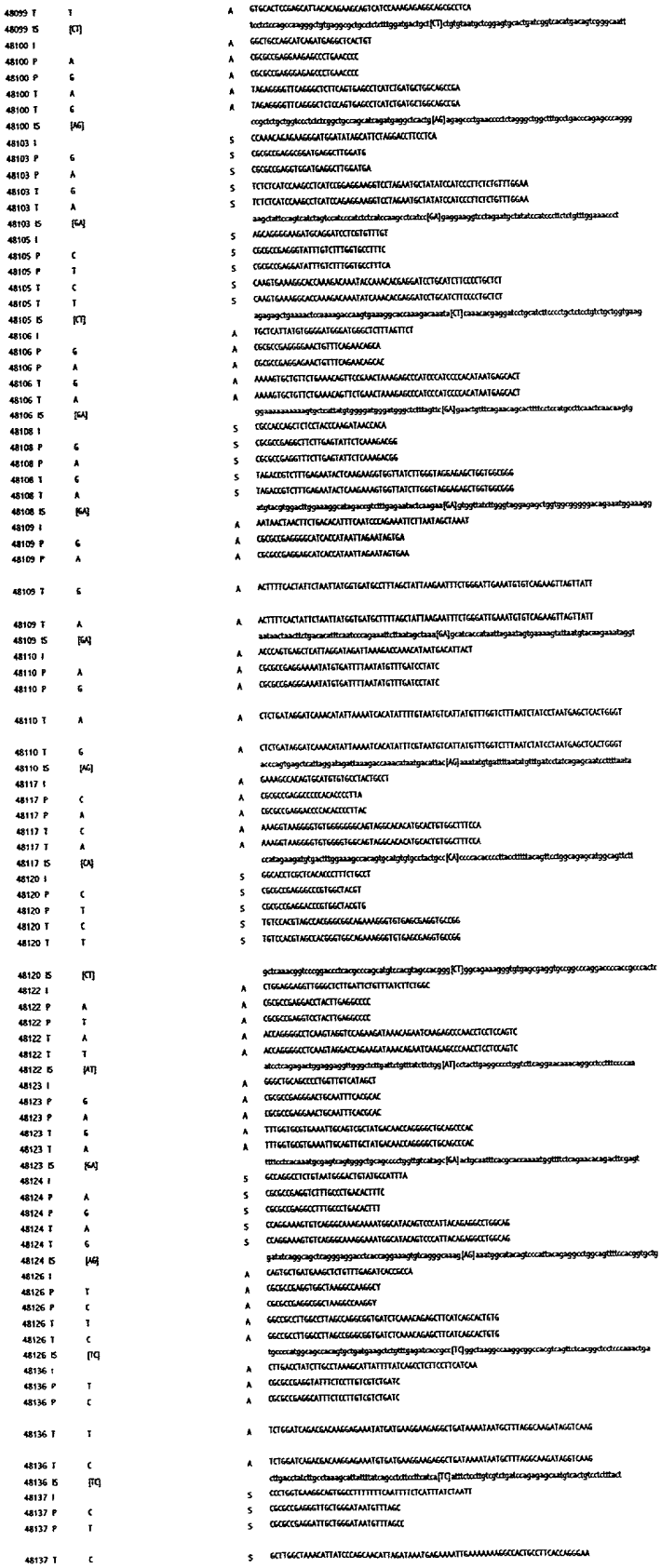
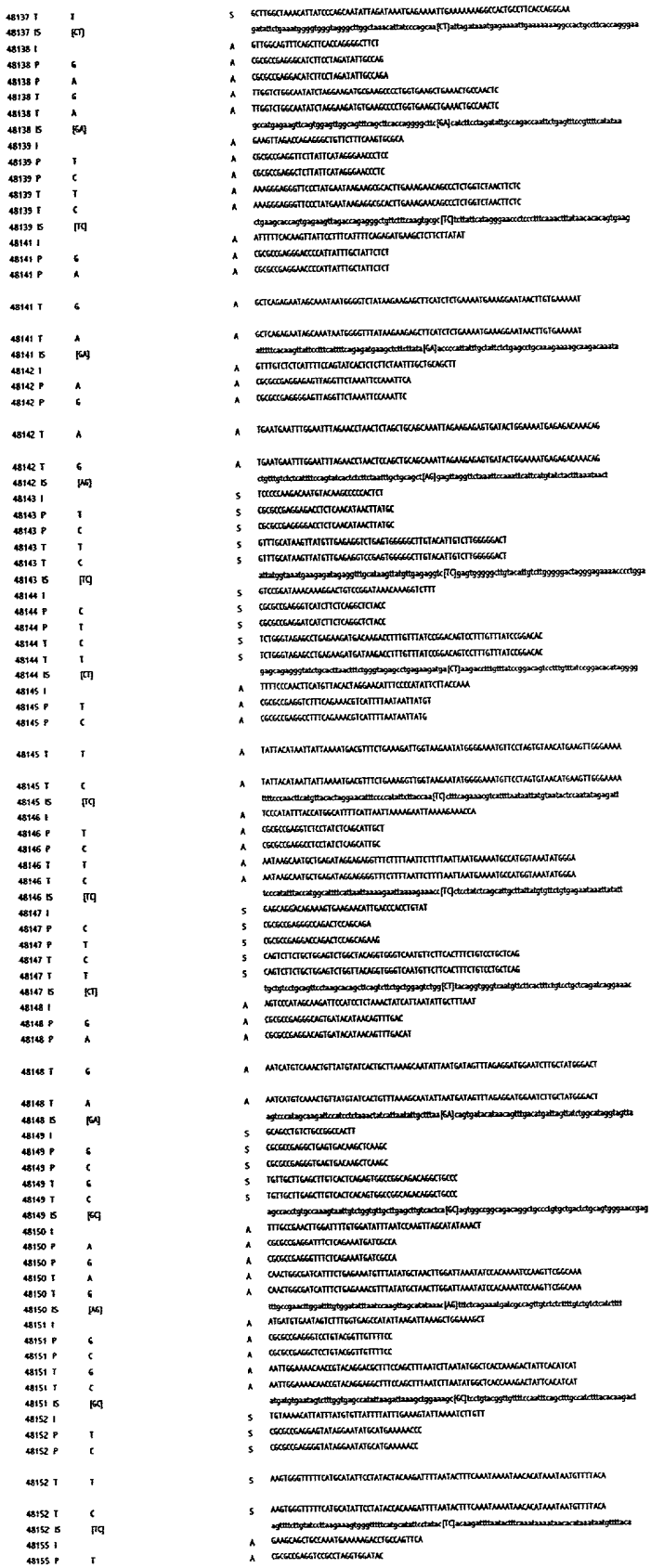


FIGURE 129F



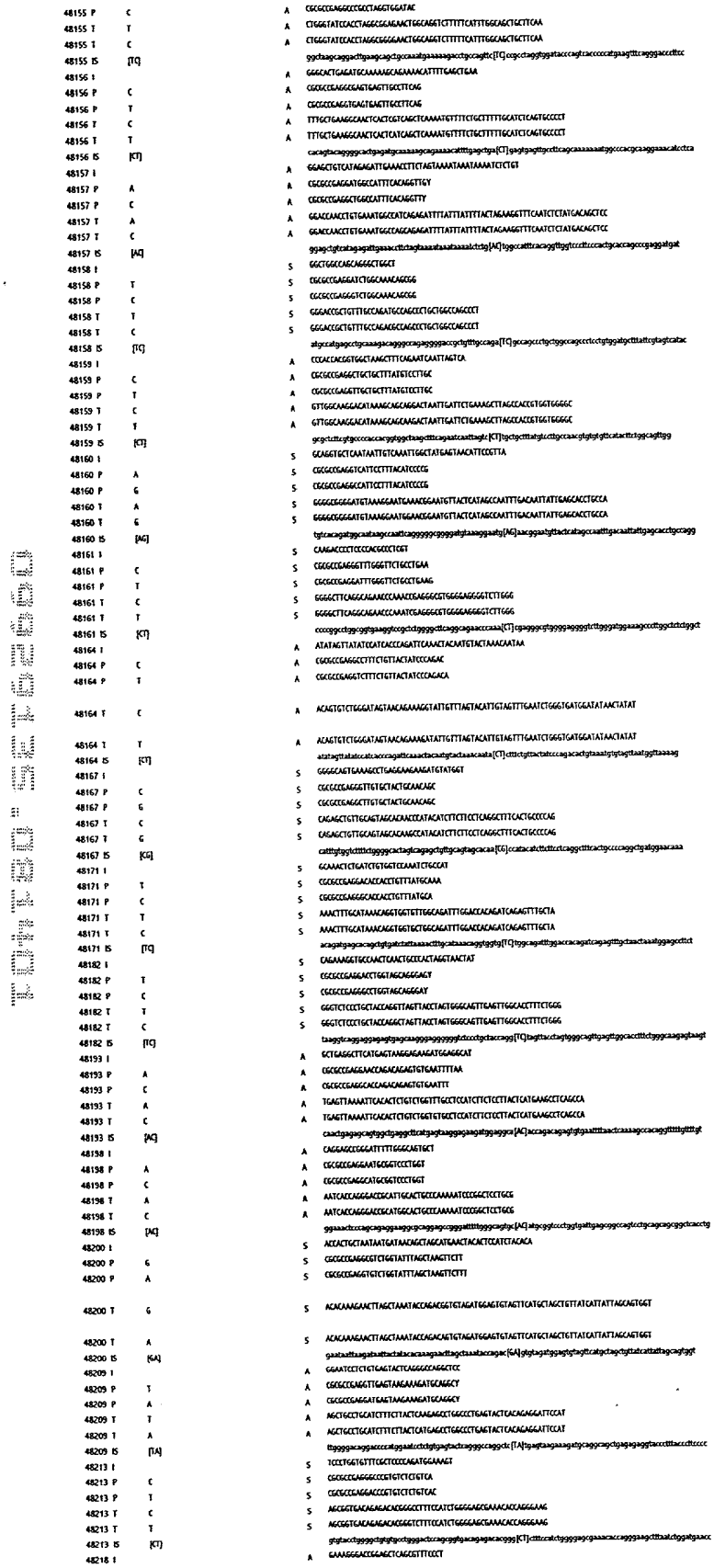


FIGURE 129F

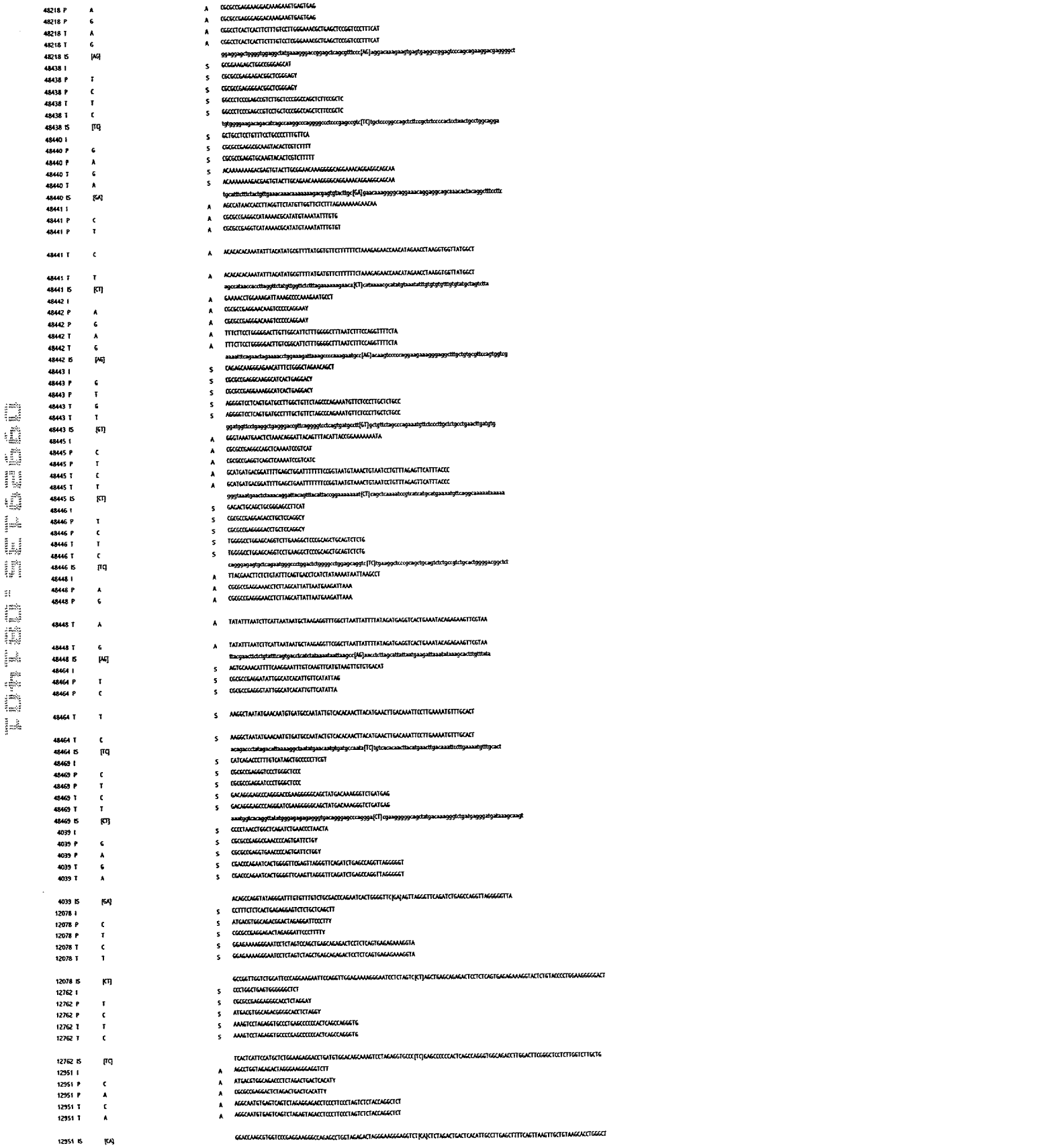
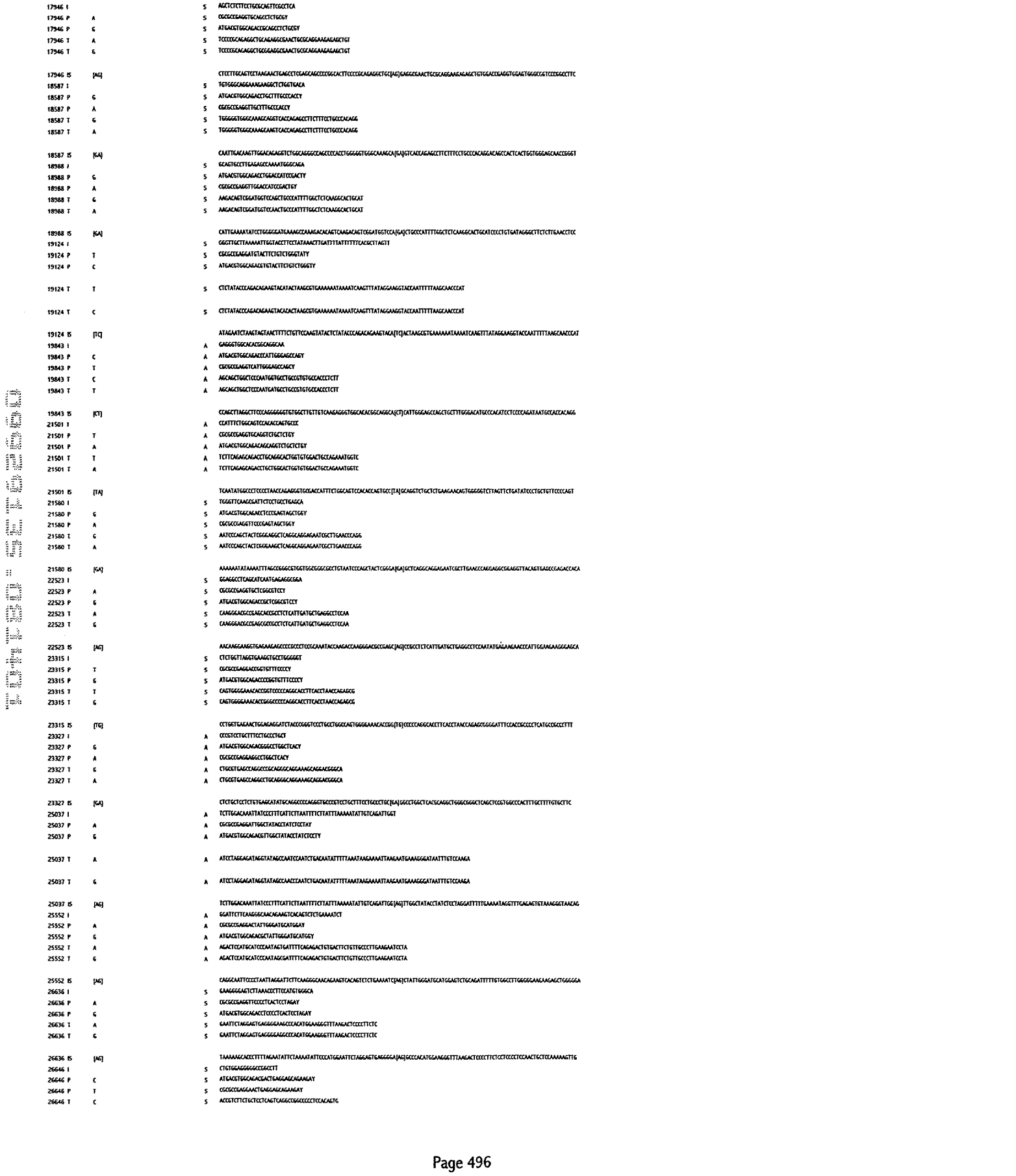
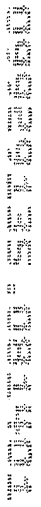


FIGURE 129F





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26646 IS   [CT]          CCCAGGCCCCAAAGCTAGAGCAGCCAGCACTTACATCTCCACCGTCTTCTGCTCCTCAGT[CT]AGGCCGGCCCCCTCCACAGTGAAAGTGCAGCCTTCCAGGGCCACAGGCAGCGGGTTCTGC
26738 I                A  CTCAAGAATGCTAAGGCCCTCTCCCCGGGA
26738 P    T           A  CGCGCCGAGGTAGATTTTACTTTTTTCCTGGTGY
26738 P    C           A  ATGAGGTGGCAGACAGATTTTACTTTTTTCCTGGTY
26738 T    T           A  AGGTCACCAGGAAAAAAGTAAAATCTACCCGGGGCAGAGGCCTTAGCATTCTTGAGAG
26738 T    C           A  AGGTCACCAGGAAAAAAGTAAAATCTGCCCGGGGCAGAGGCCTTAGCATTCTTGAGAG

26738 IS   [TC]          GAAGTTCAGGTCTGATGCAGTAATCCACCCCTCTCAAGAATGCTAAGGCCTCTCCCCGGG[TC]AGATTTTACTTTTTTCCTGGTGACCTTGCTTTCACTAATGTATTACTTCTTGGTAGGTTA
26831 I                S  CTTGCTGGCCATACTCCAGCCCCCT
26831 P    C           S  ATGACGTGGCAGACGGTCCTATTTATTGTTACAGAATCY
26831 P    T           S  CGCGCCGAGGAGTCCTATTTATTGTTACAGAATCCY
26831 T    C           S  TCTGGGATTCTGTAACAATAAATAGGACCGGGGGCTGGAGTATGGCCAGCAAGGA
26831 T    T           S  TCTGGGATTCTGTAACAATAAATAGGACTGGGGGCTGGAGTATGGCCAGCAAGGA

26831 IS   [CT]          AATTGTTTCCTGCTTGATCAGATTGAAGAGCTTCTGGGATTCTGTAACAATAAATAGGAC[CT]GGGGGCTGGAGTATGGCCAGCAAGGACTCTTCAGGGGTTATTCAGGGACTGTCTAACCTG
26837 I                S  GGTCTTAAGTTTCTTGGAGGCAAAGGCTGTGA
26837 P    G           S  ATGACGTGGCAGACGTACCTTTCCCTTAGTGTY
26837 P    A           S  CGCGCCGAGGTTGTATTCATTTTCATGGCCY
26837 T    G           S  CACAGGCCATGAAAATGAATACAGCACAGCCTTTGCCTCCAAGAAACTTAAGACCTA
26837 T    A           S  CACAGGCCATGAAAATGAATACAACACAGCCTTTGCCTCCAAGAAACTTAAGACCTA

26837 IS   [GA]          ATTATGGTACCTCTATGCGCCTGGCCCGCACTGGGGACAGAGGCCATGAAAATGAATACA[GA]CACAGCCTTTGCCTCCAAGAAACTTAAGACCTAGTAGAAATGGCAGGCTTTAAAACAGGT
26857 I                S  GCACACTCTGCCCTCTCCCCCAGAGT
26857 P    C           S  ATGACGTGGCAGACGTACCCTTTCCCTTAGTGTY
26857 P    T           S  CGCGCCGAGGATACCCTTTCCCTTAGTGTY
26857 T    C           S  GATGACACTAAGGGAAAGGGTACCTCTGGGGGAGAGGGCAGAGTGTGCAG
26857 T    T           S  GATGACACTAAGGGAAAGGGTATCTCTGGGGGAGAGGGCAGAGTGTGCAG

26857 IS   [CT]          GTGGGACGGGCTTTGGAGGATGAGGATGCAGCAGGGGAGATGACACTAAGGGAAAGGGTA[CT]CTCTGGGGGAGAGGGCAGAGTGTGCAGAGGTGCAGGTGAGGGAAGAACCAGGGTGGGG
                         TT
26884 I                A  CAGGGTCGCTGCACATACCAAGCATGACT
26884 P    G           A  ATGACGTGGCAGACGGGCACCCACTAGGTGY
26884 P    A           A  CGCGCCGAGGAGGACCCACTAGGTGAY
26884 T    G           A  CGCTTCACCTAGTGGGTCCCGTCATGCTTGGTATGTGCAGCGCACCCTGCC
26884 T    A           A  CGCTTCACCTAGTGGGTCCTGTCATGCTTGGTATGTGCAGCGACCCTGCC

26884 IS   [GA]          AAAAGGTAAAGTGTGCACGGATCCAGTCCAGGCAGGGTCGCTGCACATACCAAGCATGAC[GA]GGACCCACTAGGTGAAGCGTCTGAACCACCTCGGCAGACACAGCACACACAGAGAGCCAG
26961 I                S  GATCACAAACAATGGTGTTTTTATGCATCATTTATCTTCAGAGAGC
26961 P    A           S  CGCGCCGAGGTGTCTATCTGAGCTGCTTY
26961 P    T           S  ATGAGGTGGCAGACAGTCTATCTGAGCTGCTTY
26961 T    A           S  CTTCAAGCAGCTCAGATAGACACTCTCTGAAGATAAATGATGCATAAAAACACCATTGTTTGTGATCAG
26961 T    T           S  CTTCAAGCAGCTCAGATAGACTCTCTCTGAAGATAAATGATGCATAAAAACACCATTGTTTGTGATCAG

26961 IS   [AT]          CATTCTGGTAAGGCTAGTCCAATCCATAAGTTTCATTTGCTTCAAGCAGCTCAGATAGAC[AT]CTCTCTGAAGATAAATGATGCATAAAAACACCATTGTTTGTGATCAGAATAATCAGGTAC
27043 I                S  CTGGCTTCTCCCAAAACATTTACCACGAGTATTTACCAGAGTTACTAAAAAT
27043 P    C           S  ATGACGTGGCAGACGTCCATTTTACATTACATCCTAAAAY
27043 P    G           S  CGCGCCGAGGCTCCATTTTACATTACATCCTAAAAY

27043 T    C           S  GCTCTTTTAGGATGTAATGTAAAATGGACTTTTTAGTAACTCTGGTAAATACTCGTGGTAAATGTTTTGGAGAAGCCAGGT

27043 T    G           S  GCTCTTTTAGGATGTAATGTAAAATGGAGTTTTTAGTAACTCTGGTAAATACTCGTGGTAAATGTTTTGGAGAAGCCAGGT

27043 IS   [CG]          AATTATGAATCTAGCATACTTTTTAGTTCAAAAGCTCTTTTAGGATGTAATGTAAAATGGA[CG]TTTTTAGTAACTCTGGTAAATACTCGTGGTAAATGTTTTGGAGAAGCCAGGTTGTAATCA
27052 I                S  AGGTTTGAATGAAGGCTACCCCCCCCCA
27052 P    A           S  CGCGCCGAGGTTTTTTTGATGAGTATAAAATTCAAGCY
27052 P    G           S  ATGACGTGGCAGACCTTTTTTGATGAGTATAAAATTCAAGCY
27052 T    A           S  CTATGCTTGAATTTTATACTCATCAAAAAAAGGGGGGGGGTAGCCTTCATTCAAACCTAC
27052 T    G           S  CTATGCTTGAATTTTATACTCATCAAAAAAGGGGGGGGGTAGCCTTCATTCAAACCTAC

27052 IS   [AG]          CCTAGGAAAGAGTTGCTTGCATCACTTCTACTATGCTTGAATTTTATACTCATCAAAAAA[AG]GGGGGGGGGTAGCCTTCATTCAAACCTACAGCTTCTTCCACTCTCAGCCGAAACGTTTTG
27420 I                A  GTCCTCGCCAAGTGGCCAGCCTCT
27420 P    G           A  ATGACGTGGCAGACGGCATCTCTGCAGGY
27420 P    A           A  CGCGCCGAGGAGCATCTCTGCAGGCY
27420 T    G           A  GTCAGCGTGCAGACGATGCTGAGGCTGGCCACTTGGCGAGGACTA
27420 T    A           A  GTCAGCGTGCAGACGATGCTGAGGCTGGCCACTTGGCGAGGACTA

27420 IS   [GA]          AGAGTCAAGCTCTGAGCCCTCGCTAGAAGACCTCATAGTCCTCGCCAAGTGGCCAGCCTC[GA]GCATCTCTGCAGCGTGACATAGATGACATGAGGCTGAAAGAAGACCTTGGCATGAAGCCC
27466 I                S  GCACACAGCTGTGGATAATAAAATCAATGTCTAAATCAGTAAAAT
27466 P    T           S  CGCGCCGAGGAACAATTCTTTCAATAAAAGCACTY
27466 P    G           S  ATGACGTGGCAGACACAATTCTTTCAATAAAAGCACT
27466 T    T           S  ACACAGTGCTTTTATTGAAAGAATTGTTTTTTACTGATTTAGACATTGATTTTTATTATCCACAGCTGTGTGCCT
27466 T    G           S  ACACAGTGCTTTTATTGAAAGAATTGTGTTTTACTGATTTAGACATTGATTTTTATTATCCACAGCTGTGTGCCT

27466 IS   [TG]          TAAGGAAGAAAAAATTCTGCTAATTAAACTATGACACAGTGCTTTTATTGAAAGAATTGT[TG]TTTTACTGATTTAGACATTGATTTTTATTATCCACAGCTGTGTGCCTGTATGAAAAATAC
27761 I                A  GCCCCTCTCCTGAAAGTCCCATATTTTAAACATTTACGTAAATTATGATTGTA
27761 P    T           A  CGCGCCGAGGTTGATTGTGGGCTTAAGAGT
27761 P    C           A  ATGACGTGGCAGACCTGATTGTGGGCTTAAGAGY

27761 T    T           A  ATTTCTCTTAAGCCCACAATCAAACAATCATAATTTACGTAAATGTTTAAAATATGGGACTTTCAGCAGAGGGGCTA

27761 T    C           A  ATTTCTCTTAAGCCCACAATCAGACAATCATAATTTACGTAAATGTTTAAAATATGGGACTTTCAGCAGAGGGGCTA

27761 IS   [TC]          ATTCTCTAGCCCCTCTCCTGAAAGTCCCATATTTTAAACATTTACGTAAATTATGATTGT[TC]TGATTGTGGGCTTAAGAGAAATGCTATCGACATCCTGTGTCCATTTCTCCCCTGCTTAG
27784 I                A  GTGTATTGTTCTTCCAAGTTCCAAGGCCTAGGGAGATTTCT
27784 P    A           A  CGCGCCGAGGATACAAATATCTCTGGTGCCY
27784 P    C           A  ATGACCTGGCAGACCTACAAATATCTCTGGTGCCY
27784 T    A           A  ATTTGGCACCAGAGATATTTGTATGAAATCTCCCTAGGCCTTGGAACTTGGAAGAACAATACACTG
27784 T    C           A  ATTTGGCACCAGAGATATTTGTAGGAAATCTCCCTAGGCCTTGGAACTTGGAAGAACAATACACTG

27784 IS   [AC]          CCTGACTTGTCTAACGTGCAGTGTATTGTTCTTCCAAGTTCCAAGGCCTAGGGAGATTTC[AC]TACAAATATCTCTGGTGCCAAATGATACAGGGAAGACAGCTATTGCTTTACCTTTTCTCT
27938 I                S  CCTAACAAAGAATGTGCCCACAGATACCAAATGATTAATACTAA
27938 P    A           S  CGCGCCGAGGTTAGGTTACATAGTTAACTGAGCY
27938 P    G           S  ATGACGTGGCAGACCTAGGTTACATAGTTAACTGAGCY
27938 T    A           S  AAGAGCTCAGTTAACTATGTAACCTAATAGTATTAATCATTTGGTATCTGTGGGCACATTCTTTGTTAGGTG
27938 T    G           S  AAGAGCTCAGTTAACTATGTAACCTAGTAGTATTAATCATTTGGTATCTGTGGGCACATTCTTTGTTAGGTG

27938 IS   [AG]          AAGCAGAACTGAATCAGGATTCAAATCTGAGCTAAAGAGCTCAGTTAACTATGTAACCTA[AG]TAGTATTAATCATTTGGTATCTGTGGGCACATTCTTTGTTAGGTGCTAATTAGGCTGAAA
28258 I                S  CCTCCCACGGGGTGAGGTTGATGCT
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